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

Cover Page

Order ID : P5240

Project ID : Queens PDC Wilmington VMF - 142-02 # M242660384

Client : ATC Group Services LLC

Lab Sample Number	Client Sample Number
P5240-01	OF-1
P5240-04	OF-2
P5240-05	OF-3

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

Signature : _____

Date: 12/14/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **P5240**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: **KETAN PATEL** **Date:** **12/14/2024**

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LAB CHRONICLE

OrderID:	P5240	**OrderDate:**	12/10/2024 1:09:00 PM
Client:	ATC Group Services LLC	**Project:**	Queens PDC Wilmington VMF - 142-02 # M24A0A384
Contact:	David Gustafson	**Location:**	Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5240-01	**OF-1**	**Water**			**12/09/24**			**12/10/24**
			VOC-BTEX	8260-Low			12/10/24	
P5240-04	**OF-2**	**Water**			**12/09/24**			**12/10/24**
			VOC-BTEX	8260-Low			12/10/24	
P5240-05	**OF-3**	**Water**			**12/09/24**			**12/10/24**
			VOC-BTEX	8260-Low			12/10/24	

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Hit Summary Sheet
SW-846

SDG No.: P5240

Client: ATC Group Services LLC

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.: P5240

Client: ATC Group Services LLC

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P5240-01	OF-1	1,2-Dichloroethane-d4	50	54.2	108	74	125
		Dibromofluoromethane	50	50.1	100	75	124
		Toluene-d8	50	49.4	99	86	113
		4-Bromofluorobenzene	50	43.2	86	77	121
P5240-04	OF-2	1,2-Dichloroethane-d4	50	55.0	110	74	125
		Dibromofluoromethane	50	50.0	100	75	124
		Toluene-d8	50	47.4	95	86	113
		4-Bromofluorobenzene	50	42.6	85	77	121
P5240-05	OF-3	1,2-Dichloroethane-d4	50	54.5	109	74	125
		Dibromofluoromethane	50	51.2	102	75	124
		Toluene-d8	50	48.3	97	86	113
		4-Bromofluorobenzene	50	41.5	83	77	121
VN1210WBL01	VN1210WBL01	1,2-Dichloroethane-d4	50	53.0	106	74	125
		Dibromofluoromethane	50	51.7	103	75	124
		Toluene-d8	50	49.3	99	86	113
		4-Bromofluorobenzene	50	43.9	88	77	121
VN1210WBS01	VN1210WBS01	1,2-Dichloroethane-d4	50	49.5	99	74	125
		Dibromofluoromethane	50	51.8	103	75	124
		Toluene-d8	50	50.5	101	86	113
		4-Bromofluorobenzene	50	50.3	101	77	121
VN1210WBSD0	VN1210WBSD01	1,2-Dichloroethane-d4	50	50.3	101	74	125
		Dibromofluoromethane	50	52.0	104	75	124
		Toluene-d8	50	49.6	99	86	113
		4-Bromofluorobenzene	50	50.9	102	77	121

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5240

Client: ATC Group Services LLC

Analytical Method: SW8260-Low **Datafile :** VN085158.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1210WBS01	Benzene	20	18.0	ug/L	90			82	109	
	Toluene	20	18.7	ug/L	94			82	110	
	Ethyl Benzene	20	18.4	ug/L	92			83	109	
	m/p-Xylenes	40	37.8	ug/L	95			82	110	
	o-Xylene	20	19.2	ug/L	96			83	109	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5240

Client: ATC Group Services LLC

Analytical Method: SW8260-Low **Datafile :** VN085159.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN1210WBSD01	Benzene	20	17.7	ug/L	89	1		82	109	20
	Toluene	20	18.9	ug/L	95	1		82	110	20
	Ethyl Benzene	20	18.1	ug/L	91	1		83	109	20
	m/p-Xylenes	40	37.1	ug/L	93	2		82	110	20
	o-Xylene	20	18.4	ug/L	92	4		83	109	20

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1210WBL01

Lab Name: CHEMTECH Contract: ATCE02

Lab Code: CHEM Case No.: P5240 SAS No.: P5240 SDG NO.: P5240

Lab File ID: VN085157.D Lab Sample ID: VN1210WBL01

Date Analyzed: 12/10/2024 Time Analyzed: 11:15

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
VN1210WBS01	VN1210WBS01	VN085158.D	12/10/2024
VN1210WBSD01	VN1210WBSD01	VN085159.D	12/10/2024
OF-1	P5240-01	VN085169.D	12/10/2024
OF-2	P5240-04	VN085170.D	12/10/2024
OF-3	P5240-05	VN085171.D	12/10/2024

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ATCE02

Lab Code: CHEM Case No.: P5240 SAS No.: P5240 SDG NO.: P5240

Lab File ID: VN085003.D BFB Injection Date: 11/22/2024

Instrument ID: MSVOA_N BFB Injection Time: 09:29

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	19.7
75	30.0 - 60.0% of mass 95	48.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.8 (1.1) 1
174	50.0 - 100.0% of mass 95	73.5
175	5.0 - 9.0% of mass 174	5.5 (7.5) 1
176	95.0 - 101.0% of mass 174	70.7 (96.2) 1
177	5.0 - 9.0% of mass 176	4.6 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC100	VSTDICC100	VN085005.D	11/22/2024	11:22
VSTDICCC050	VSTDICCC050	VN085006.D	11/22/2024	11:46
VSTDICC020	VSTDICC020	VN085007.D	11/22/2024	12:10
VSTDICC010	VSTDICC010	VN085008.D	11/22/2024	12:34
VSTDICC005	VSTDICC005	VN085009.D	11/22/2024	12:57
VSTDICC001	VSTDICC001	VN085010.D	11/22/2024	13:45

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ATCE02

Lab Code: CHEM Case No.: P5240 SAS No.: P5240 SDG NO.: P5240

Lab File ID: VN085154.D BFB Injection Date: 12/10/2024

Instrument ID: MSVOA_N BFB Injection Time: 08:37

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.5
75	30.0 - 60.0% of mass 95	52.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	1.2 (1.6) 1
174	50.0 - 100.0% of mass 95	76.8
175	5.0 - 9.0% of mass 174	6.6 (8.6) 1
176	95.0 - 101.0% of mass 174	75.1 (97.8) 1
177	5.0 - 9.0% of mass 176	5.3 (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	VN085155.D	12/10/2024	10:17
VN1210WBL01	VN1210WBL01	VN085157.D	12/10/2024	11:15
VN1210WBS01	VN1210WBS01	VN085158.D	12/10/2024	11:42
VN1210WBSD01	VN1210WBSD01	VN085159.D	12/10/2024	12:16
OF-1	P5240-01	VN085169.D	12/10/2024	16:28
OF-2	P5240-04	VN085170.D	12/10/2024	16:53
OF-3	P5240-05	VN085171.D	12/10/2024	17:17

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ATCE02

Lab Code: CHEM Case No.: P5240 SAS No.: P5240 SDG NO.: P5240

Lab File ID: VN085155.D Date Analyzed: 12/10/2024

Instrument ID: MSVOA_N Time Analyzed: 10:17

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	161771	8.22	254585	9.10	227639	11.87
UPPER LIMIT	323542	8.724	509170	9.6	455278	12.365
LOWER LIMIT	80885.5	7.724	127293	8.6	113820	11.365
EPA SAMPLE NO.						
OF-1	129349	8.22	237566	9.10	204448	11.87
OF-2	134322	8.22	251295	9.10	208512	11.87
OF-3	130450	8.22	239679	9.10	197437	11.87
VN1210WBL01	144184	8.22	251448	9.10	221103	11.87
VN1210WBS01	148284	8.22	241760	9.10	211196	11.87
VN1210WBSD01	142566	8.22	233684	9.10	205174	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: ATCE02

Lab Code: CHEM Case No.: P5240 SAS No.: P5240 SDG NO.: P5240

Lab File ID: VN085155.D Date Analyzed: 12/10/2024

Instrument ID: MSVOA_N Time Analyzed: 10:17

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

	IS4 AREA #	RT #				
12 HOUR STD	114435	13.788				
UPPER LIMIT	228870	14.288				
LOWER LIMIT	57217.5	13.288				
EPA SAMPLE NO.						
OF-1	82722	13.79				
OF-2	88019	13.79				
OF-3	75083	13.79				
VN1210WBL01	86343	13.79				
VN1210WBS01	107293	13.79				
VN1210WBSD01	102534	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: **VN085169.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	ATC Group Services LLC	Date Collected:	12/09/24
Project:	Queens PDC Wilmington VMF - 142-02 # M242660384	Date Received:	12/10/24
Client Sample ID:	OF-1	SDG No.:	P5240
Lab Sample ID:	P5240-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-BTEX
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085169.D	1		12/10/24 16:28	VN121024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.2		74 - 125	108%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	49.4		86 - 113	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.2		77 - 121	86%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	129000	8.224			
540-36-3	1,4-Difluorobenzene	238000	9.1			
3114-55-4	Chlorobenzene-d5	204000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	82700	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\VN121024\
Data File : VN085169.D
Acq On : 10 Dec 2024 16:28
Operator : JC\MD
Sample : P5240-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
OF-1

Quant Time: Dec 11 04:17:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	129349	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	237566	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	204448	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	82722	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	99898	54.219	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.440%			
35) Dibromofluoromethane	8.165	113	80325	50.138	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.280%			
50) Toluene-d8	10.565	98	283409	49.362	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.720%			
62) 4-Bromofluorobenzene	12.847	95	92782	43.213	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 86.420%			
Target Compounds						Qvalue
3) Chloromethane	2.360	50	842	0.496	ug/l	96
16) Acetone	4.436	43	14452	26.932	ug/l	97
25) 2-Butanone	7.489	43	3666	4.179	ug/l #	75
51) 4-Methyl-2-Pentanone	10.447	43	27461	14.672	ug/l	96

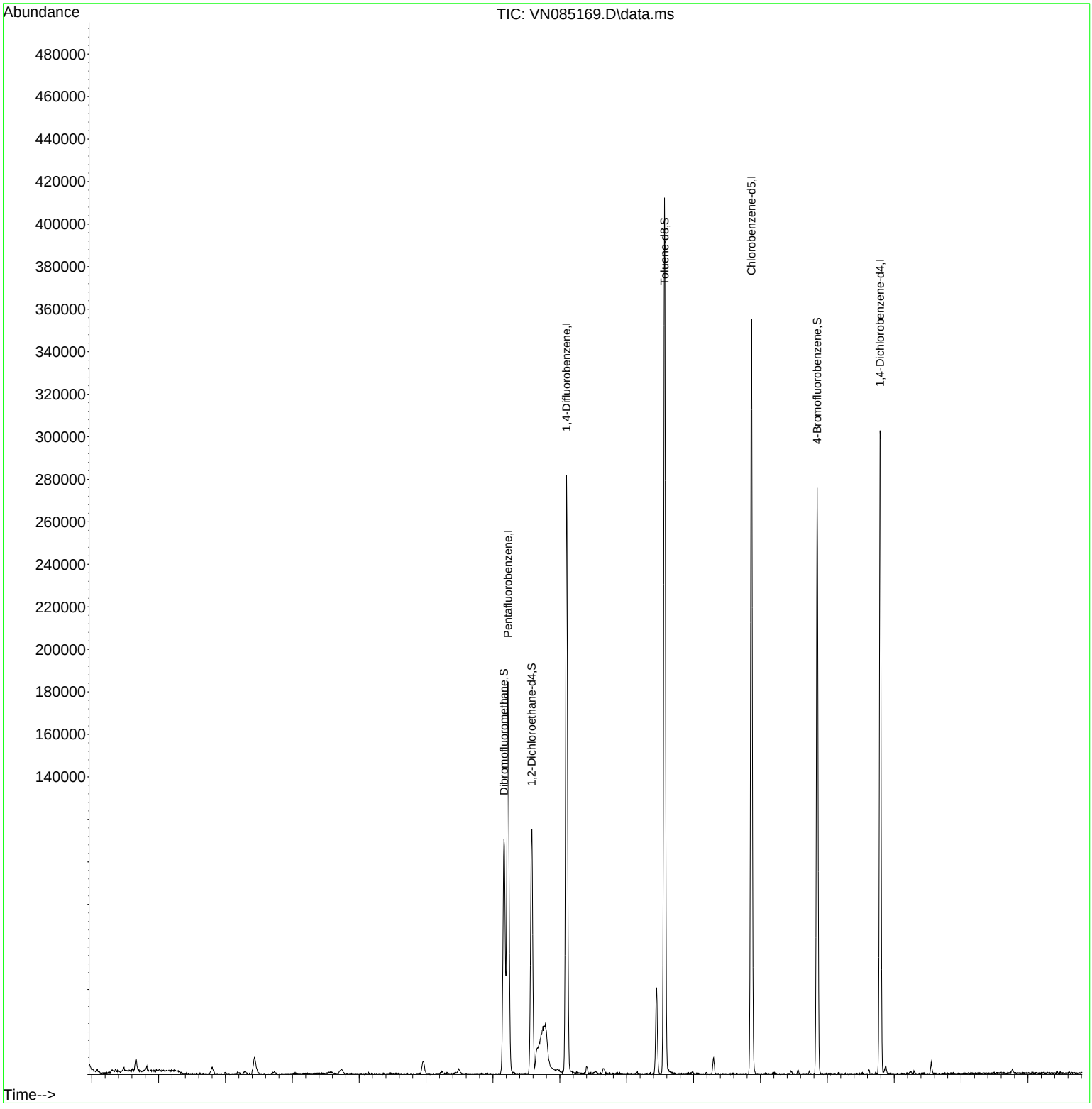
(#) = qualifier out of range (m) = manual integration (+) = signals summed

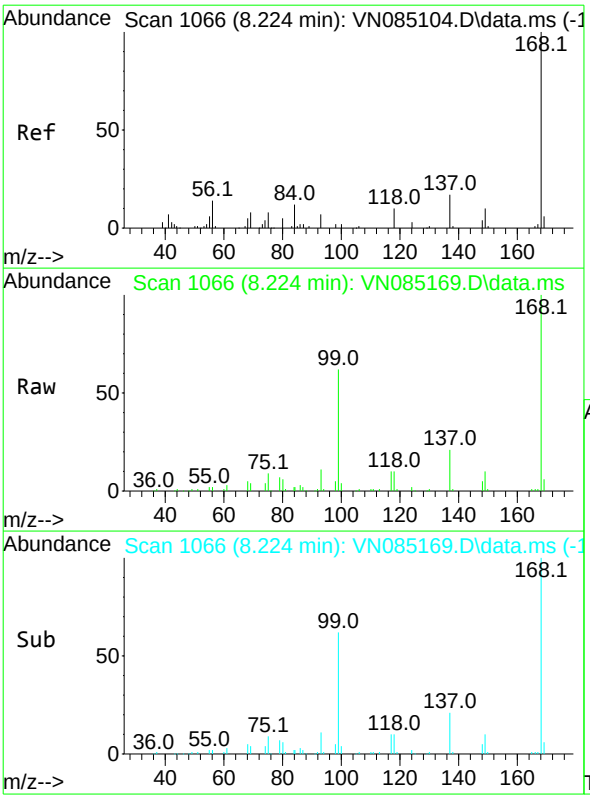
Sample Results: **VN085169.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121024\
Data File : VN085169.D
Acq On : 10 Dec 2024 16:28
Operator : JC\MD
Sample : P5240-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
OF-1

Quant Time: Dec 11 04:17:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration



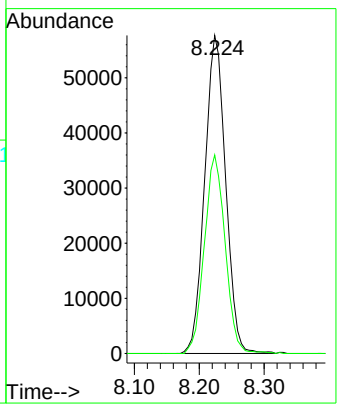


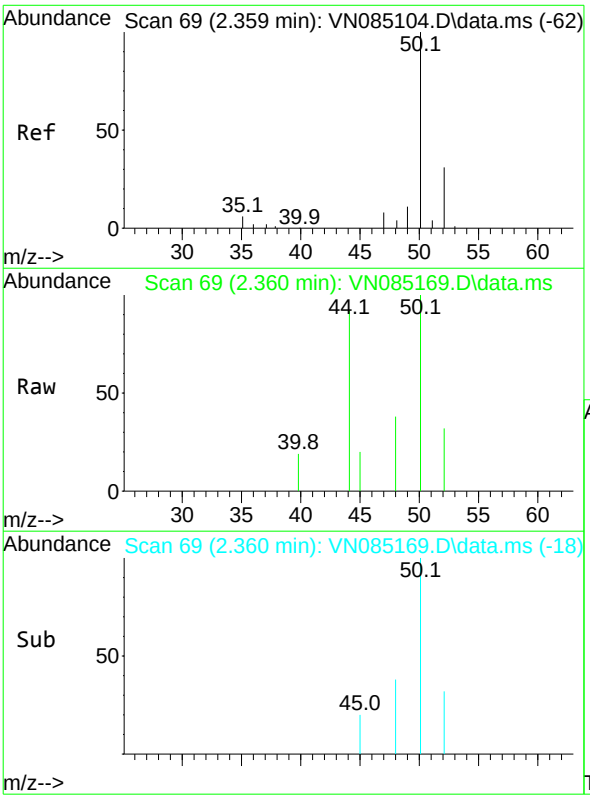
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085169.D
Acq: 10 Dec 2024 16:28

Instrument :
MSVOA_N
ClientSampleId :
OF-1

Tgt Ion:168 Resp: 129349

Ion	Ratio	Lower	Upper
168	100		
99	62.4	51.2	76.8

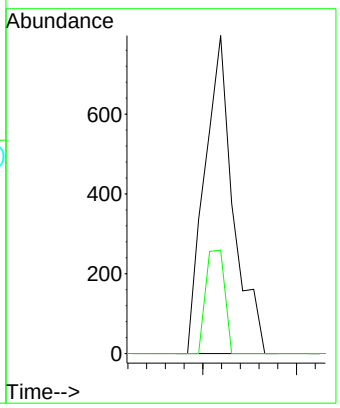


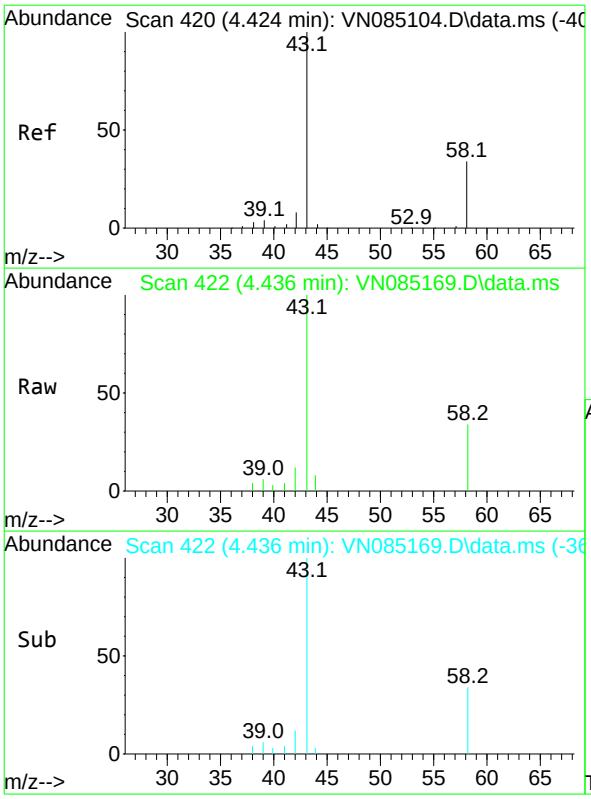


#3
Chloromethane
Concen: 0.496 ug/l
RT: 2.360 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085169.D
Acq: 10 Dec 2024 16:28

Tgt Ion: 50 Resp: 842

Ion	Ratio	Lower	Upper
50	100		
52	32.5	27.8	41.8



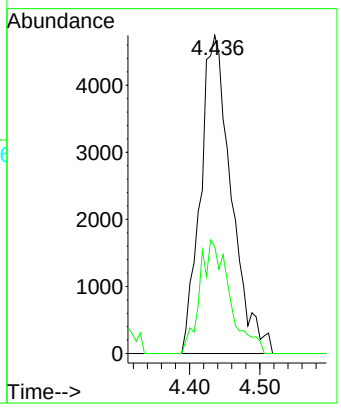


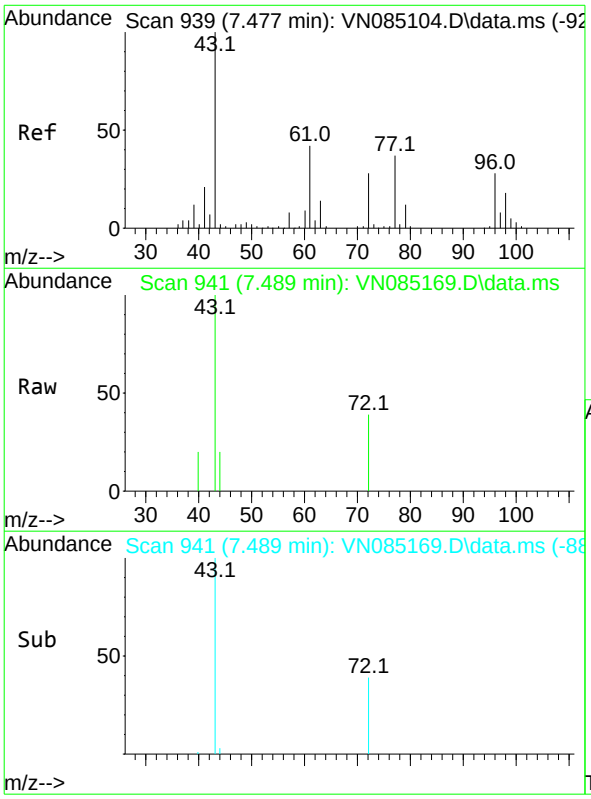
#16
Acetone
Concen: 26.932 ug/l
RT: 4.436 min Scan# 42
Delta R.T. 0.012 min
Lab File: VN085169.D
Acq: 10 Dec 2024 16:28

Instrument :
MSVOA_N
ClientSampleId :
OF-1

Tgt Ion: 43 Resp: 14452

Ion	Ratio	Lower	Upper
43	100		
58	33.6	25.4	38.2

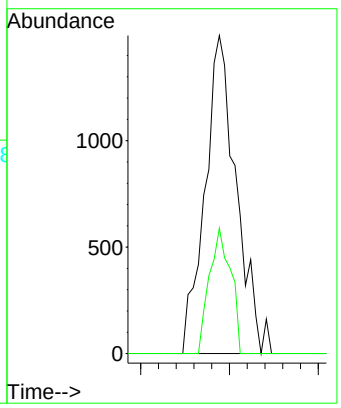


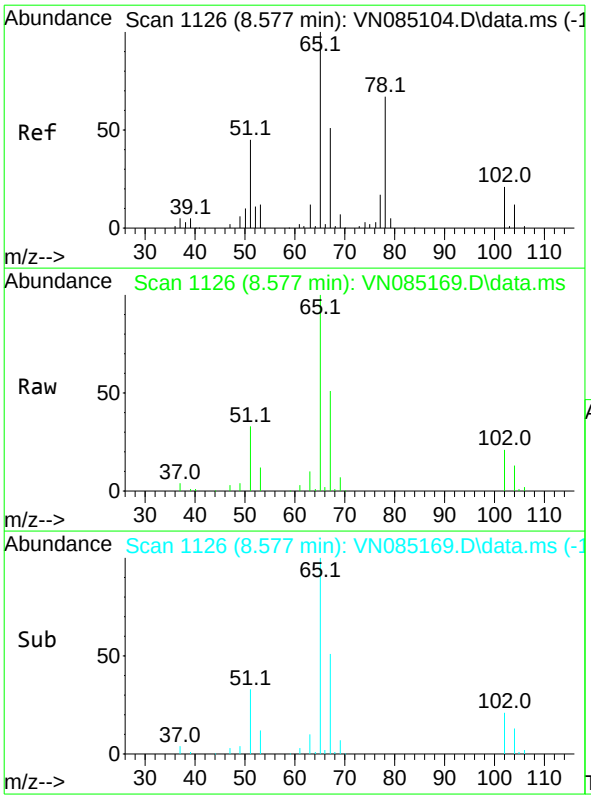


#25
2-Butanone
Concen: 4.179 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085169.D
Acq: 10 Dec 2024 16:28

Tgt Ion: 43 Resp: 3666

Ion	Ratio	Lower	Upper
43	100		
72	39.4	21.4	32.0#



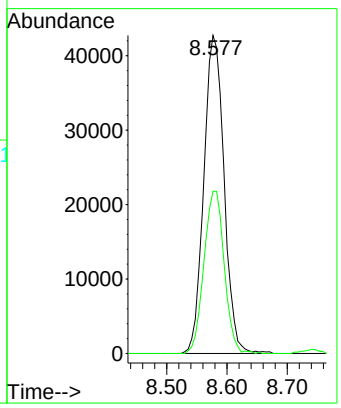


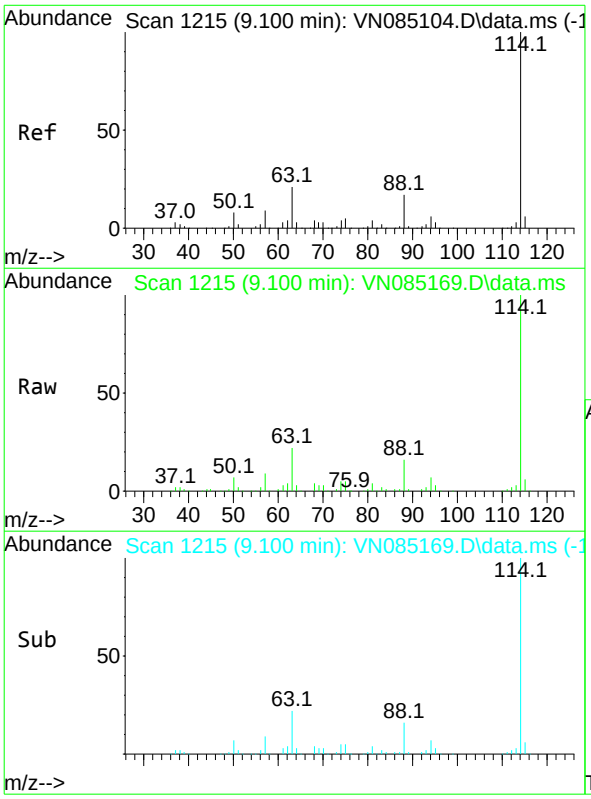
#33
1,2-Dichloroethane-d4
Concen: 54.219 ug/l
RT: 8.577 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085169.D
Acq: 10 Dec 2024 16:28

Instrument :
MSVOA_N
ClientSampleId :
OF-1

Tgt Ion: 65 Resp: 99898

Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	105.0

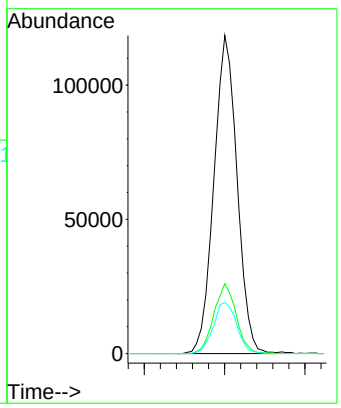


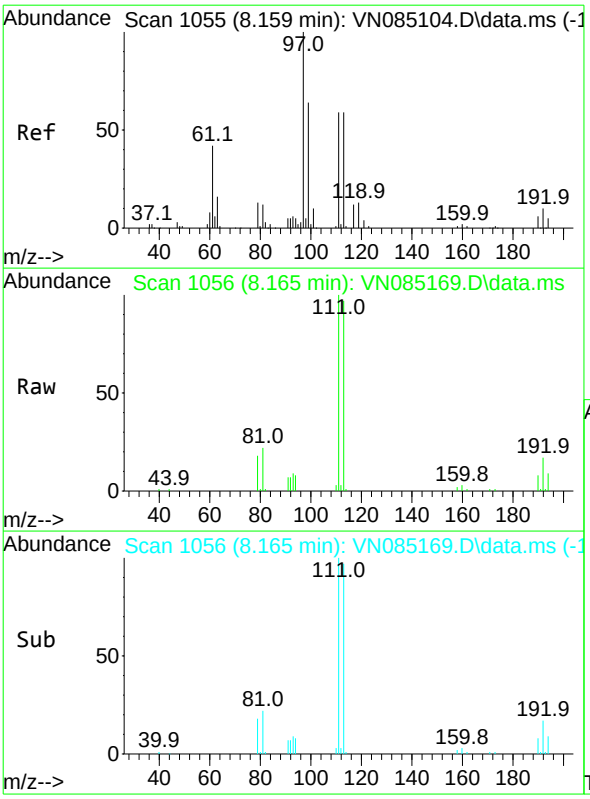


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085169.D
Acq: 10 Dec 2024 16:28

Tgt Ion:114 Resp: 237566

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	41.0
88	16.1	0.0	34.8



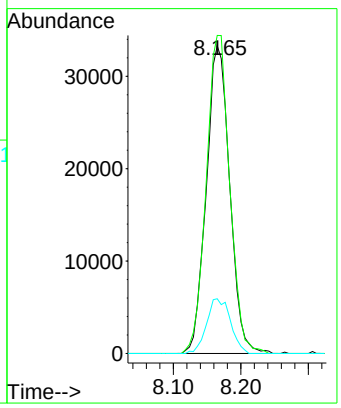


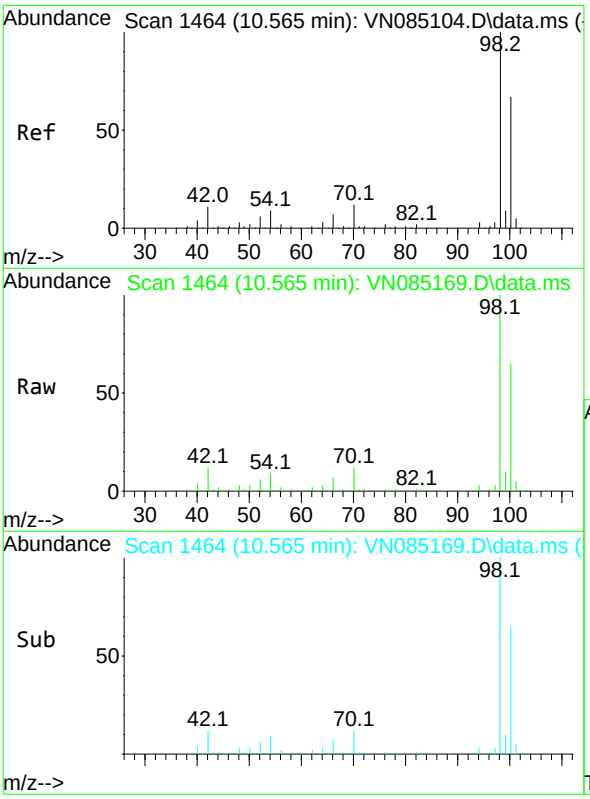
#35
Dibromofluoromethane
Concen: 50.138 ug/l
RT: 8.165 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085169.D
Acq: 10 Dec 2024 16:28

Instrument :
MSVOA_N
ClientSampleId :
OF-1

Tgt Ion:113 Resp: 80325

Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.0	123.0
192	18.1	14.8	22.2

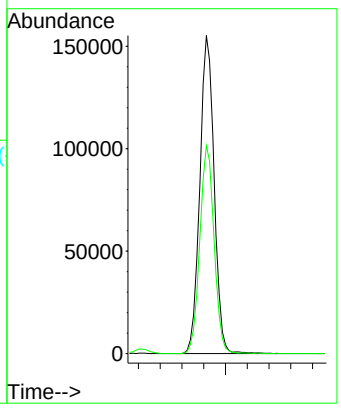


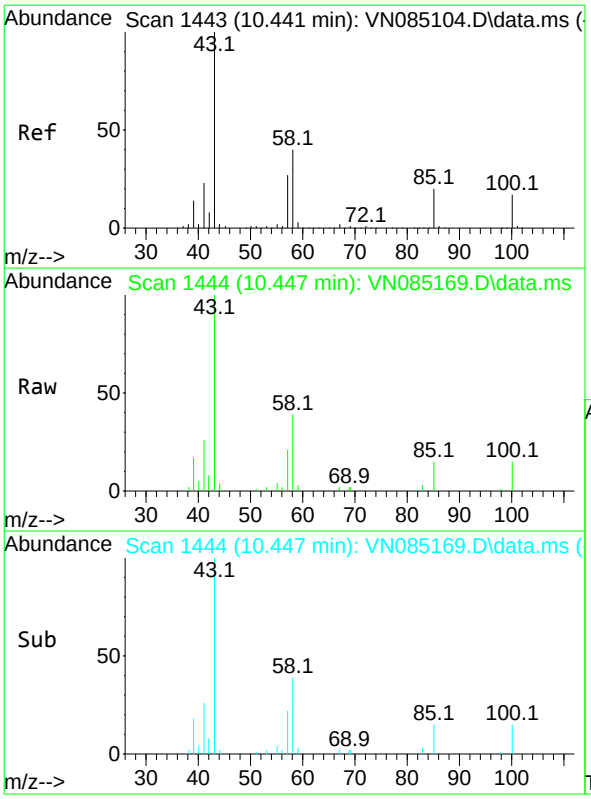


#50
Toluene-d8
Concen: 49.362 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085169.D
Acq: 10 Dec 2024 16:28

Tgt Ion: 98 Resp: 283409

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.5	78.7



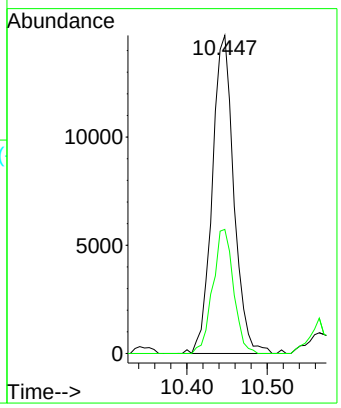


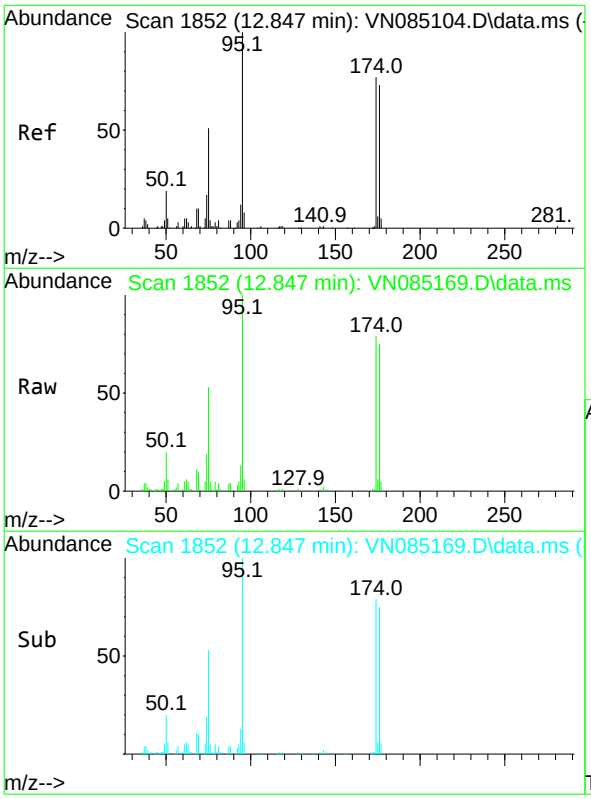
#51
4-Methyl-2-Pentanone
Concen: 14.672 ug/l
RT: 10.447 min Scan# 14
Delta R.T. 0.006 min
Lab File: VN085169.D
Acq: 10 Dec 2024 16:28

Instrument :
MSVOA_N
ClientSampleId :
OF-1

Tgt Ion: 43 Resp: 27461

Ion	Ratio	Lower	Upper
43	100		
58	37.6	32.1	48.1

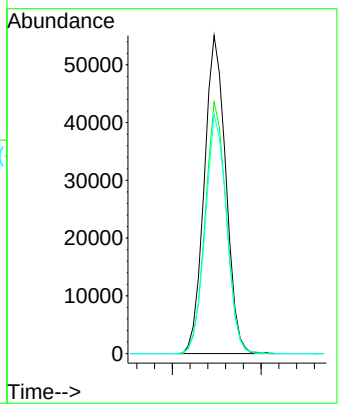


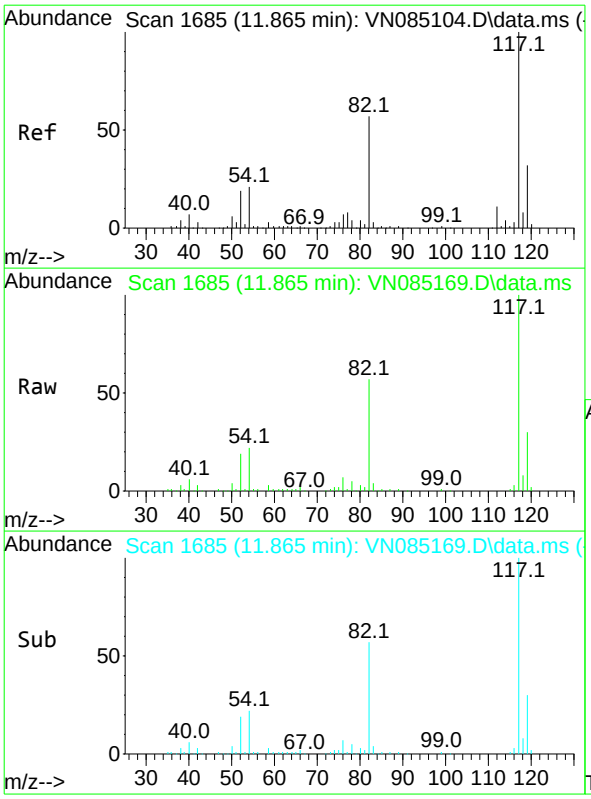


#62
4-Bromofluorobenzene
Concen: 43.213 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085169.D
Acq: 10 Dec 2024 16:28

Tgt Ion: 95 Resp: 92782

Ion	Ratio	Lower	Upper
95	100		
174	77.7	0.0	146.6
176	74.8	0.0	141.8



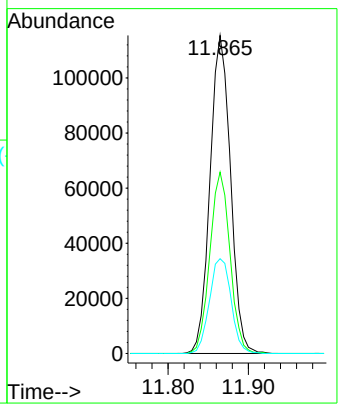


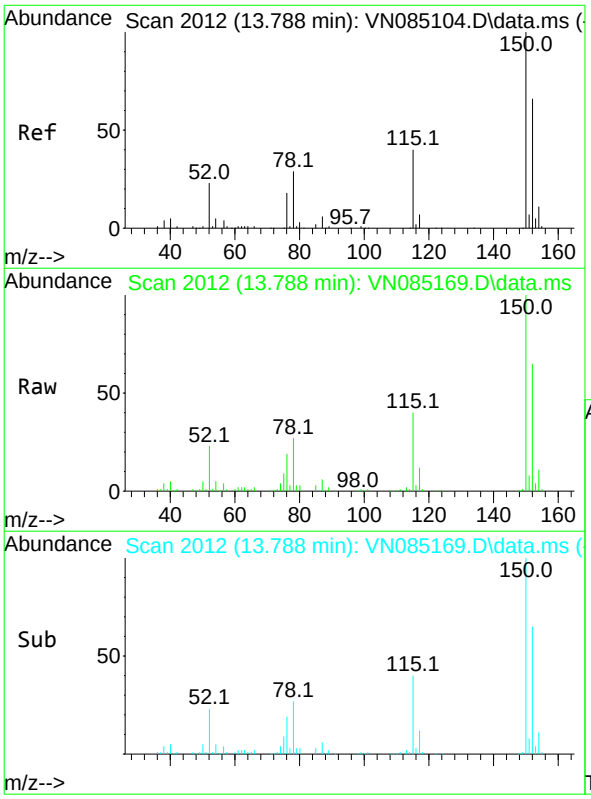
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. 0.006 min
Lab File: VN085169.D
Acq: 10 Dec 2024 16:28

Instrument :
MSVOA_N
ClientSampleId :
OF-1

Tgt Ion:117 Resp: 204448

Ion	Ratio	Lower	Upper
117	100		
82	57.0	46.0	69.0
119	29.8	25.6	38.4

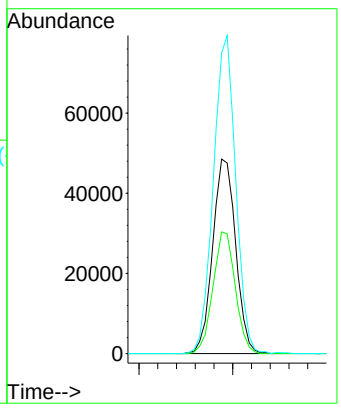




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085169.D
Acq: 10 Dec 2024 16:28

Tgt Ion:152 Resp: 82722

Ion	Ratio	Lower	Upper
152	100		
115	60.6	31.7	95.1
150	158.5	0.0	351.4



Raw Data: **VN085170.D**

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

Report of Analysis

Client:	ATC Group Services LLC	Date Collected:	12/09/24
Project:	Queens PDC Wilmington VMF - 142-02 # M242660384	Date Received:	12/10/24
Client Sample ID:	OF-2	SDG No.:	P5240
Lab Sample ID:	P5240-04	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-BTEX
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085170.D	1		12/10/24 16:53	VN121024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.0		74 - 125	110%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	47.4		86 - 113	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.6		77 - 121	85%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	134000	8.224			
540-36-3	1,4-Difluorobenzene	251000	9.1			
3114-55-4	Chlorobenzene-d5	209000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	88000	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\VN121024\
Data File : VN085170.D
Acq On : 10 Dec 2024 16:53
Operator : JC\MD
Sample : P5240-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
OF-2

Quant Time: Dec 11 04:18:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	134322	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	251295	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	208512	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	88019	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	105316	55.044	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.080%			
35) Dibromofluoromethane	8.171	113	84640	49.945	ug/l	0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.900%			
50) Toluene-d8	10.565	98	287731	47.377	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.760%			
62) 4-Bromofluorobenzene	12.847	95	96845	42.641	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 85.280%			
Target Compounds						Qvalue
16) Acetone	4.441	43	10225	18.350	ug/l #	88
25) 2-Butanone	7.494	43	2078	2.281	ug/l #	71
51) 4-Methyl-2-Pentanone	10.441	43	6529	3.298	ug/l #	86

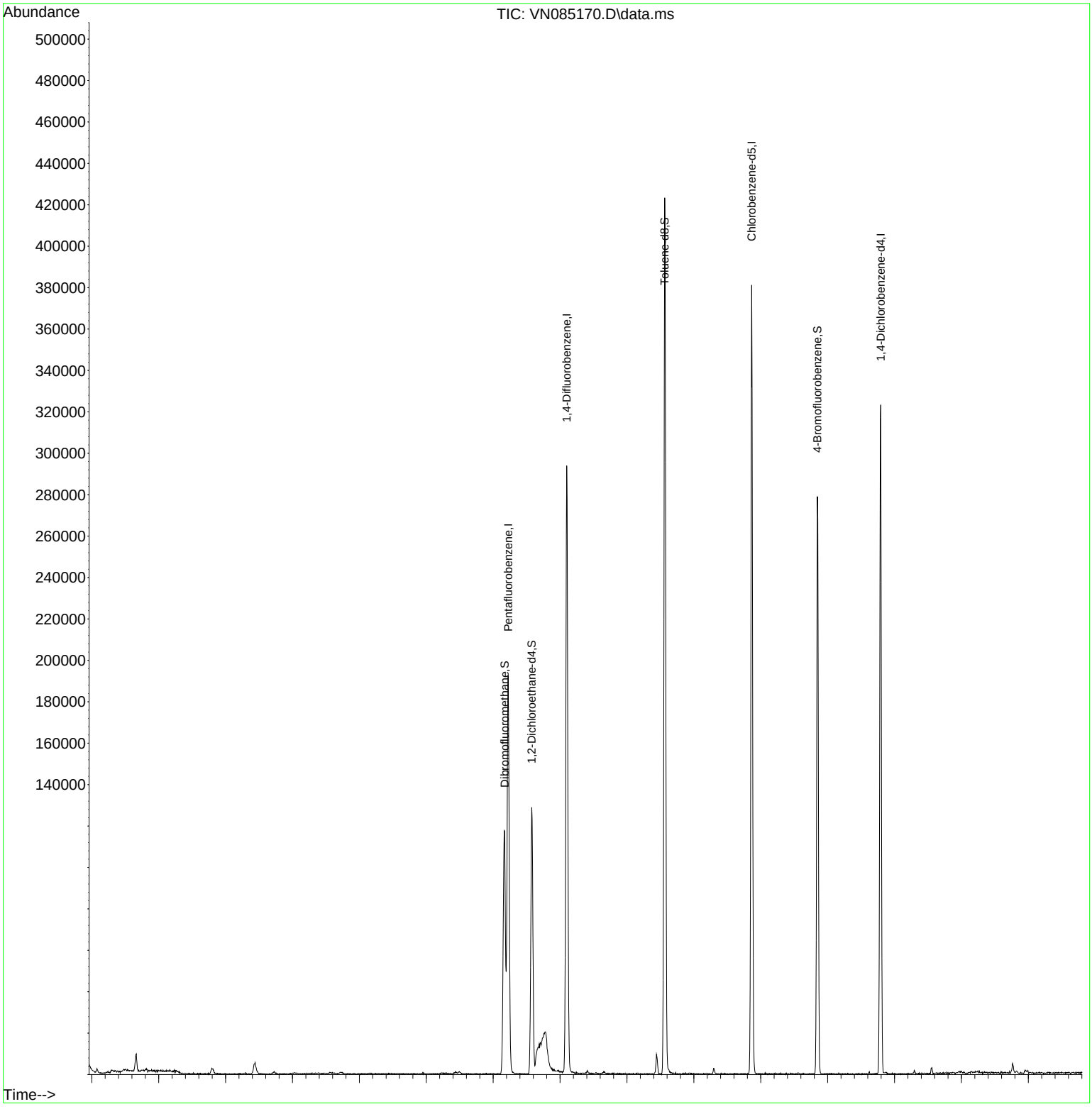
(#) = qualifier out of range (m) = manual integration (+) = signals summed

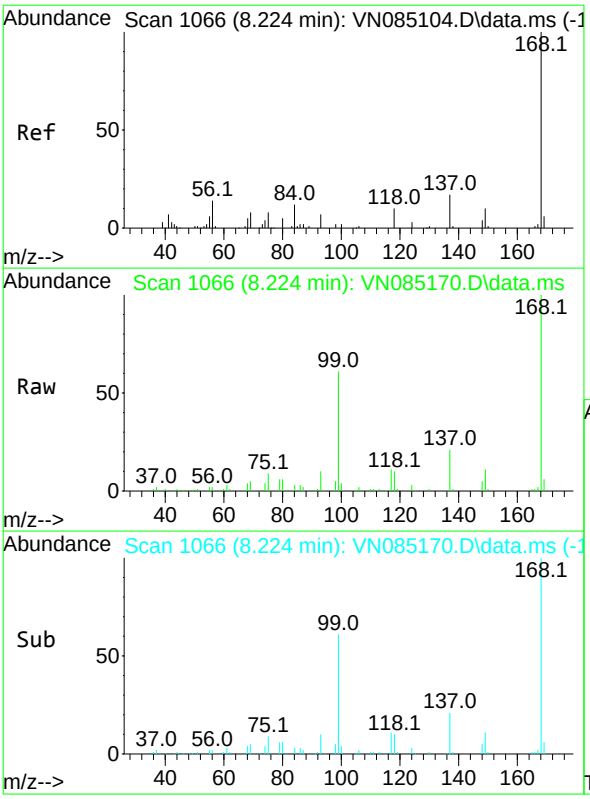
Sample Results: **VN085170.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121024\
Data File : VN085170.D
Acq On : 10 Dec 2024 16:53
Operator : JC\MD
Sample : P5240-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
OF-2

Quant Time: Dec 11 04:18:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration



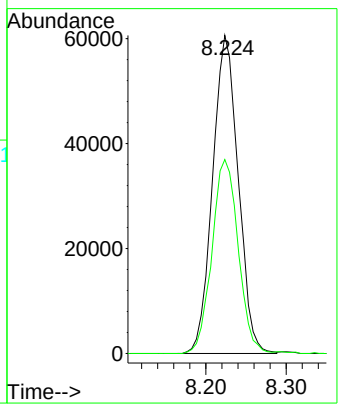


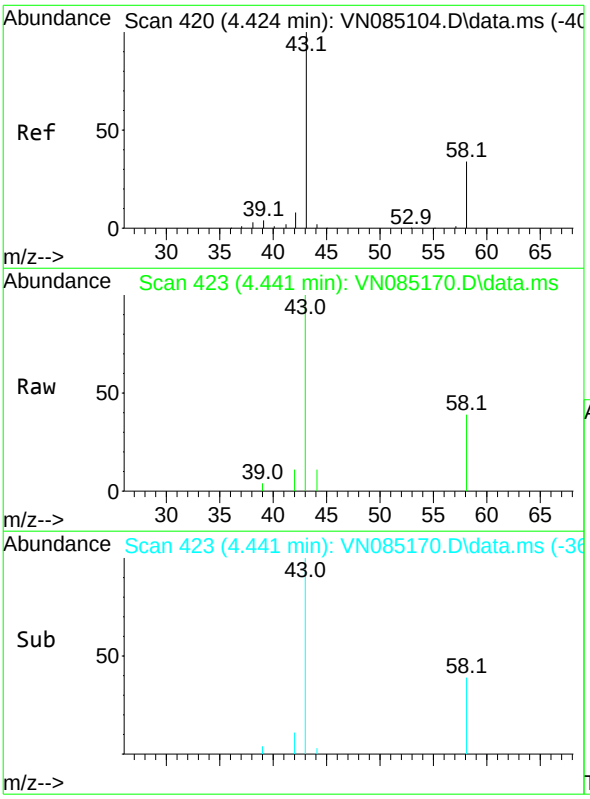
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085170.D
Acq: 10 Dec 2024 16:53

Instrument :
MSVOA_N
ClientSampleId :
OF-2

Tgt Ion:168 Resp: 134322

Ion	Ratio	Lower	Upper
168	100		
99	61.0	51.2	76.8

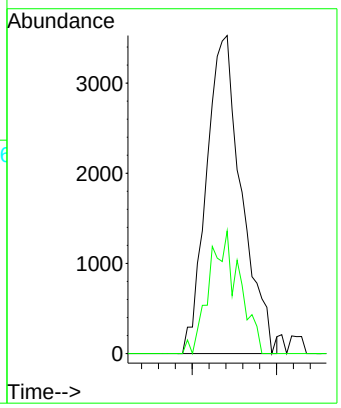


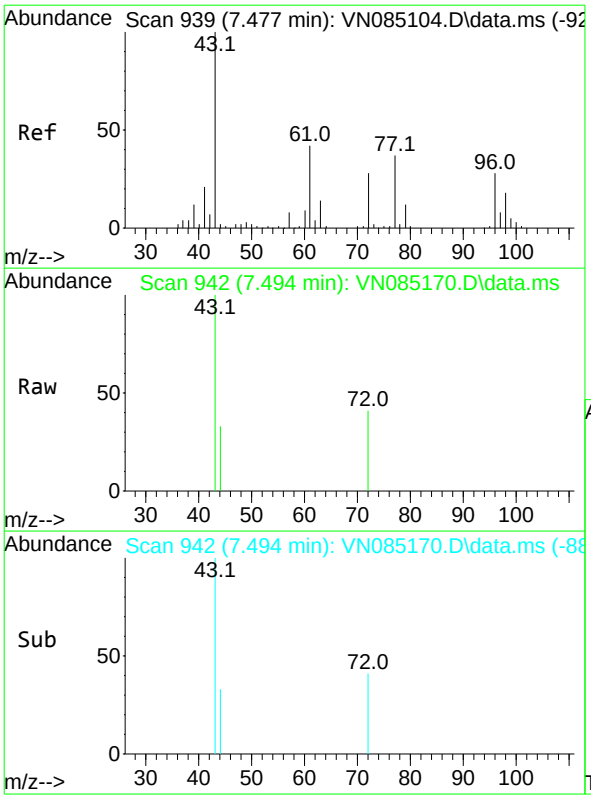


#16
Acetone
Concen: 18.350 ug/l
RT: 4.441 min Scan# 423
Delta R.T. 0.017 min
Lab File: VN085170.D
Acq: 10 Dec 2024 16:53

Tgt Ion: 43 Resp: 10225

Ion	Ratio	Lower	Upper
43	100		
58	38.6	25.4	38.2#



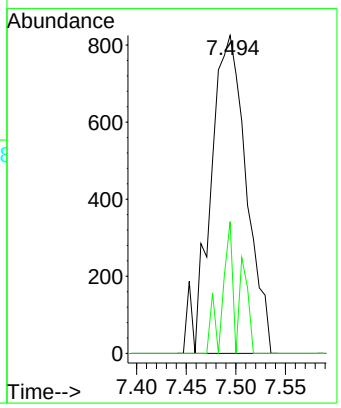


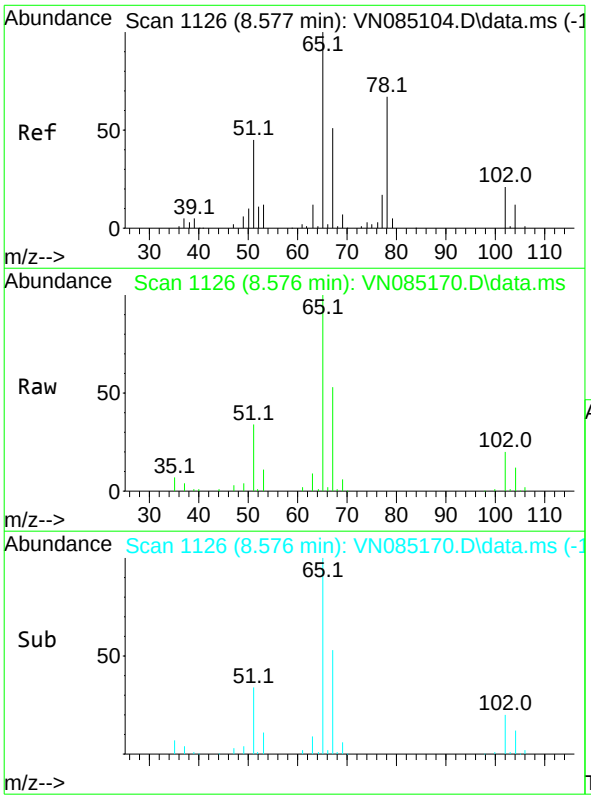
#25
2-Butanone
Concen: 2.281 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.012 min
Lab File: VN085170.D
Acq: 10 Dec 2024 16:53

Instrument :
MSVOA_N
ClientSampleId :
OF-2

Tgt Ion: 43 Resp: 2078

Ion	Ratio	Lower	Upper
43	100		
72	41.5	21.4	32.0#

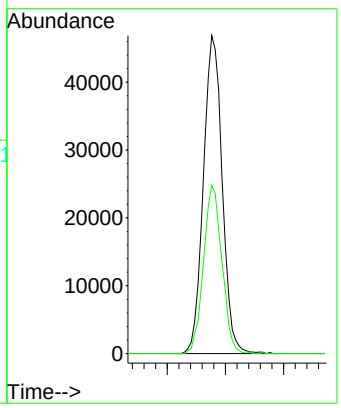


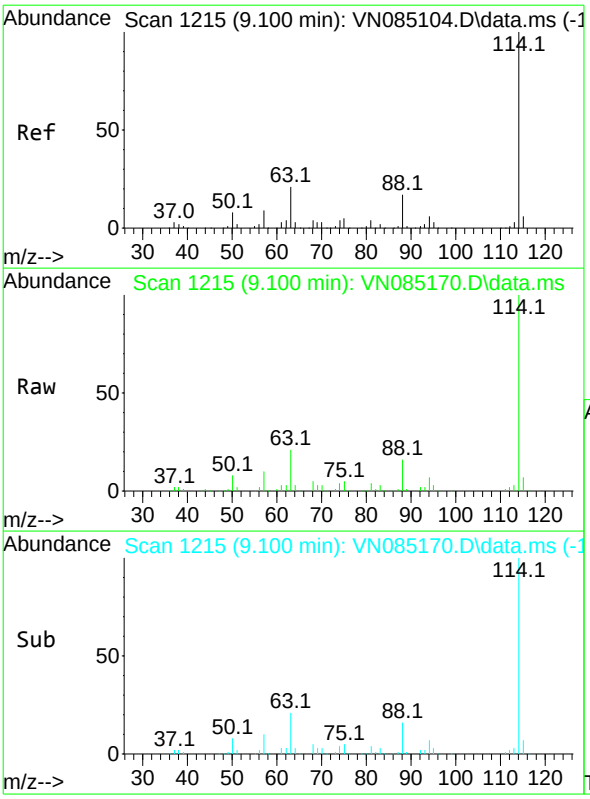


#33
1,2-Dichloroethane-d4
Concen: 55.044 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085170.D
Acq: 10 Dec 2024 16:53

Tgt Ion: 65 Resp: 105316

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	105.0



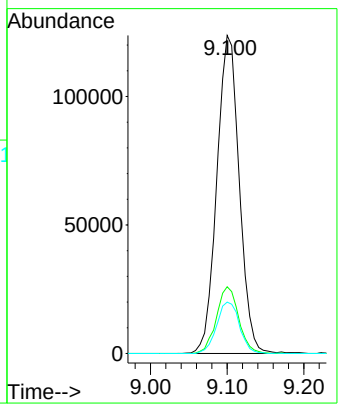


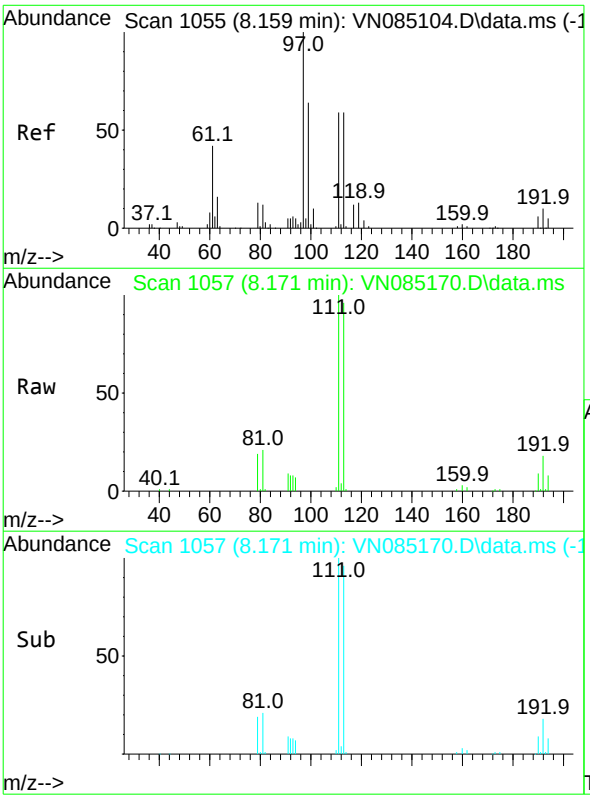
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. 0.006 min
Lab File: VN085170.D
Acq: 10 Dec 2024 16:53

Instrument :
MSVOA_N
ClientSampleId :
OF-2

Tgt Ion:114 Resp: 251295

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	41.0
88	16.2	0.0	34.8

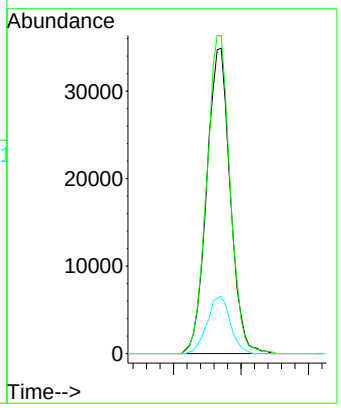


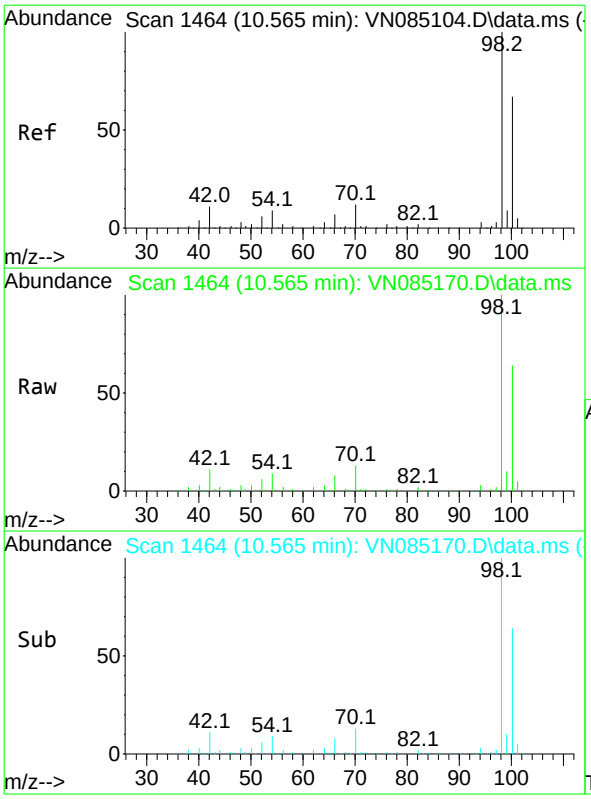


#35
Dibromofluoromethane
Concen: 49.945 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.012 min
Lab File: VN085170.D
Acq: 10 Dec 2024 16:53

Tgt Ion:113 Resp: 84640

Ion	Ratio	Lower	Upper
113	100		
111	103.5	82.0	123.0
192	18.5	14.8	22.2



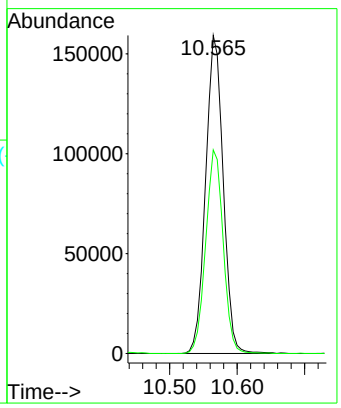


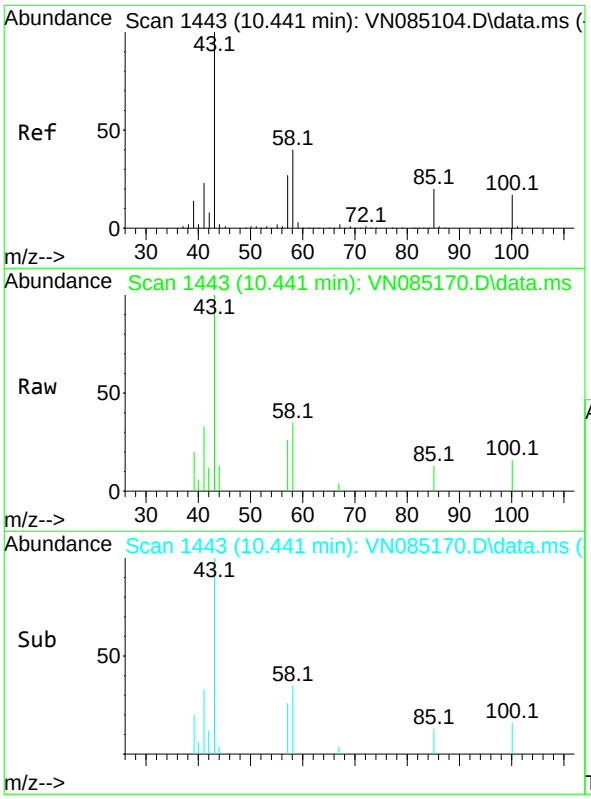
#50
Toluene-d8
Concen: 47.377 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN085170.D
Acq: 10 Dec 2024 16:53

Instrument :
MSVOA_N
ClientSampleId :
OF-2

Tgt Ion: 98 Resp: 287731

Ion	Ratio	Lower	Upper
98	100		
100	63.8	52.5	78.7

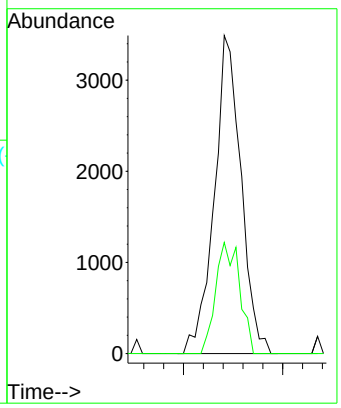


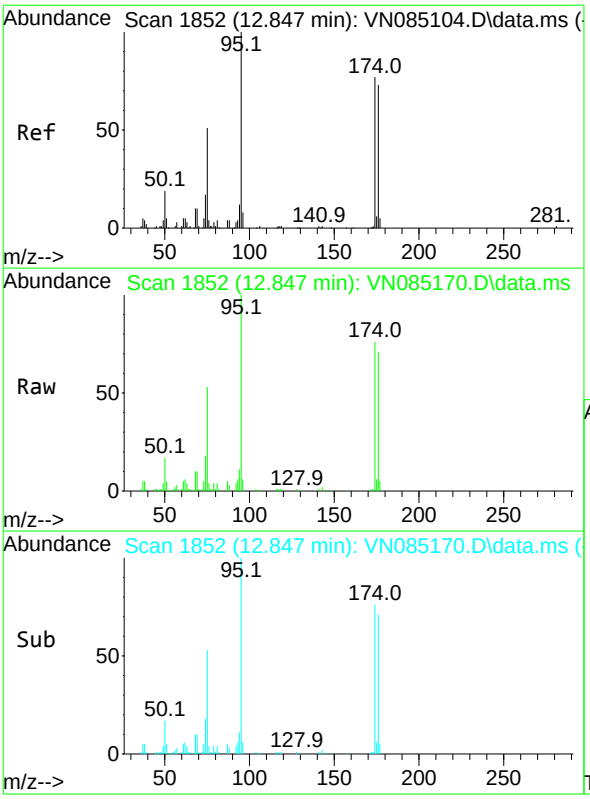


#51
4-Methyl-2-Pentanone
Concen: 3.298 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085170.D
Acq: 10 Dec 2024 16:53

Tgt Ion: 43 Resp: 6529

Ion	Ratio	Lower	Upper
43	100		
58	31.3	32.1	48.1#



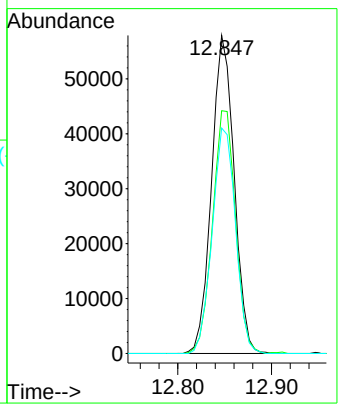


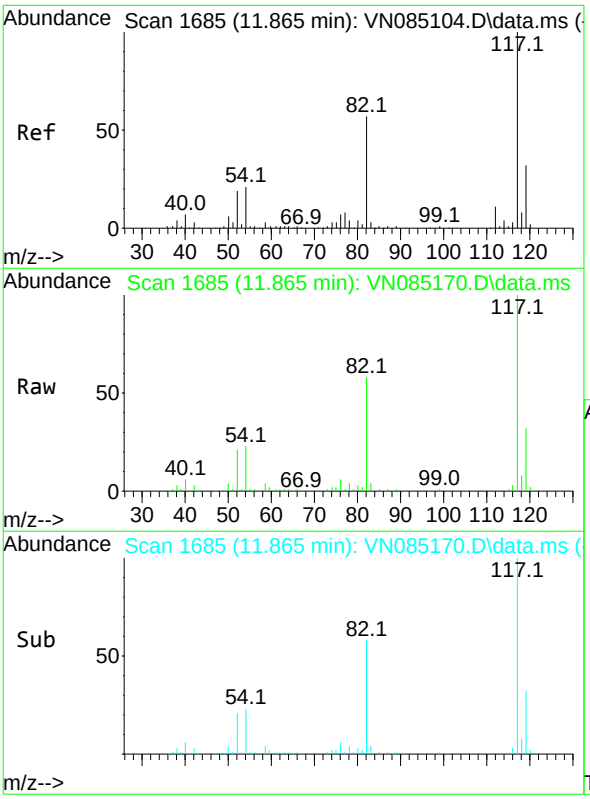
#62
4-Bromofluorobenzene
Concen: 42.641 ug/l
RT: 12.847 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085170.D
Acq: 10 Dec 2024 16:53

Instrument :
MSVOA_N
ClientSampleId :
OF-2

Tgt Ion: 95 Resp: 96845

Ion	Ratio	Lower	Upper
95	100		
174	77.7	0.0	146.6
176	73.1	0.0	141.8

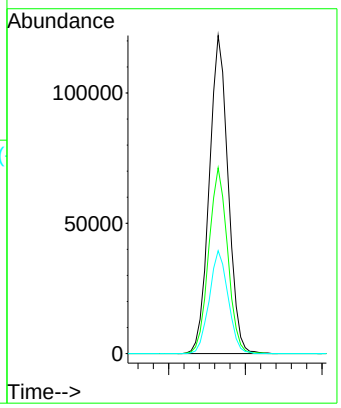


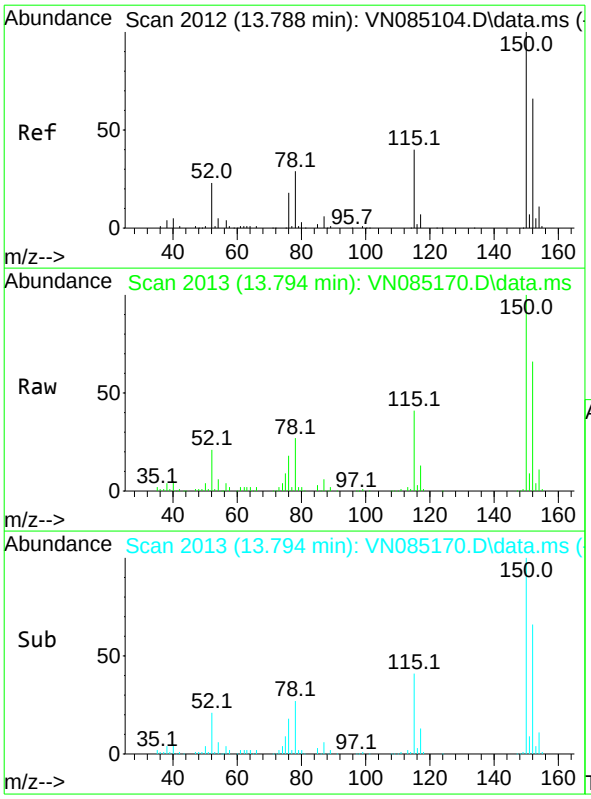


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085170.D
Acq: 10 Dec 2024 16:53

Tgt Ion:117 Resp: 208512

Ion	Ratio	Lower	Upper
117	100		
82	58.4	46.0	69.0
119	32.3	25.6	38.4



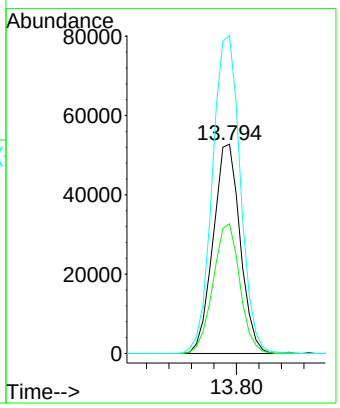


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN085170.D
Acq: 10 Dec 2024 16:53

Instrument :
MSVOA_N
ClientSampleId :
OF-2

Tgt Ion:152 Resp: 88019

Ion	Ratio	Lower	Upper
152	100		
115	61.4	31.7	95.1
150	157.1	0.0	351.4



Raw Data: **VN085171.D**

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

Report of Analysis

Client:	ATC Group Services LLC	Date Collected:	12/09/24
Project:	Queens PDC Wilmington VMF - 142-02 # M242660384	Date Received:	12/10/24
Client Sample ID:	OF-3	SDG No.:	P5240
Lab Sample ID:	P5240-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-BTEX
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085171.D	1		12/10/24 17:17	VN121024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.4		74 - 125	109%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	48.3		86 - 113	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	41.5		77 - 121	83%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	130000	8.224			
540-36-3	1,4-Difluorobenzene	240000	9.1			
3114-55-4	Chlorobenzene-d5	197000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	75100	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\VN121024\
Data File : VN085171.D
Acq On : 10 Dec 2024 17:17
Operator : JC\MD
Sample : P5240-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
OF-3

Quant Time: Dec 11 04:18:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

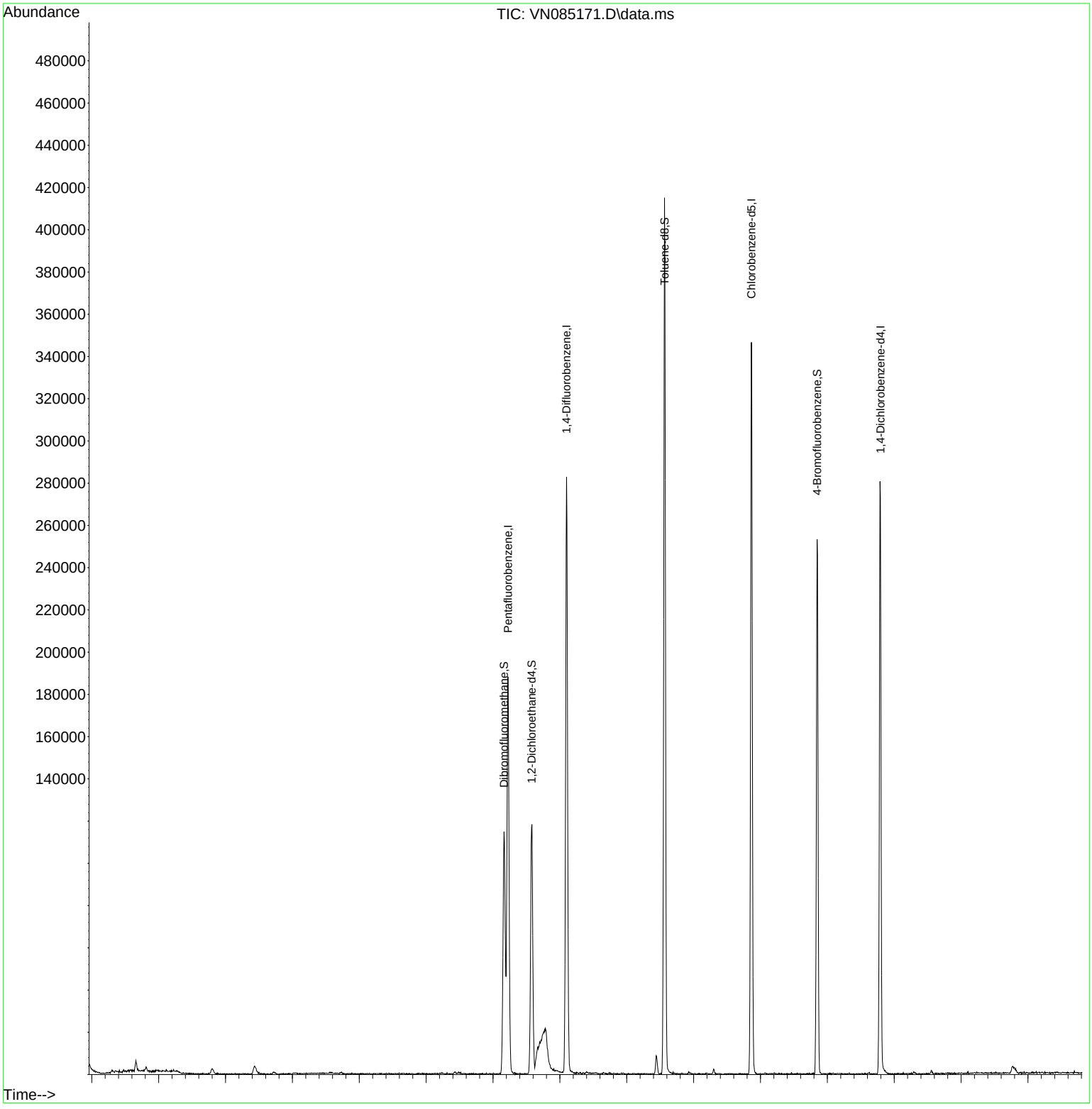
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	130450	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	239679	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	197437	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	75083	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	101172	54.447	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.900%			
35) Dibromofluoromethane	8.165	113	82748	51.196	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.400%			
50) Toluene-d8	10.565	98	279990	48.337	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.680%			
62) 4-Bromofluorobenzene	12.847	95	89967	41.532	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 83.060%			
Target Compounds						Qvalue
16) Acetone	4.436	43	7826	14.461	ug/l	99
25) 2-Butanone	7.488	43	1444	1.632	ug/l	94
51) 4-Methyl-2-Pentanone	10.441	43	6327	3.351	ug/l	89

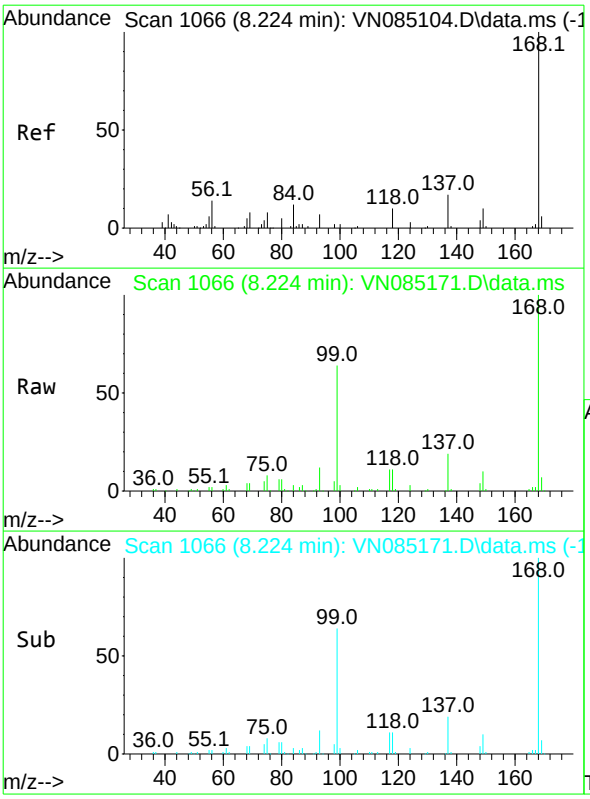
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121024\
Data File : VN085171.D
Acq On : 10 Dec 2024 17:17
Operator : JC\MD
Sample : P5240-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
OF-3

Quant Time: Dec 11 04:18:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration



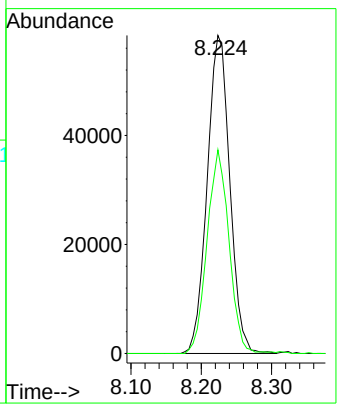


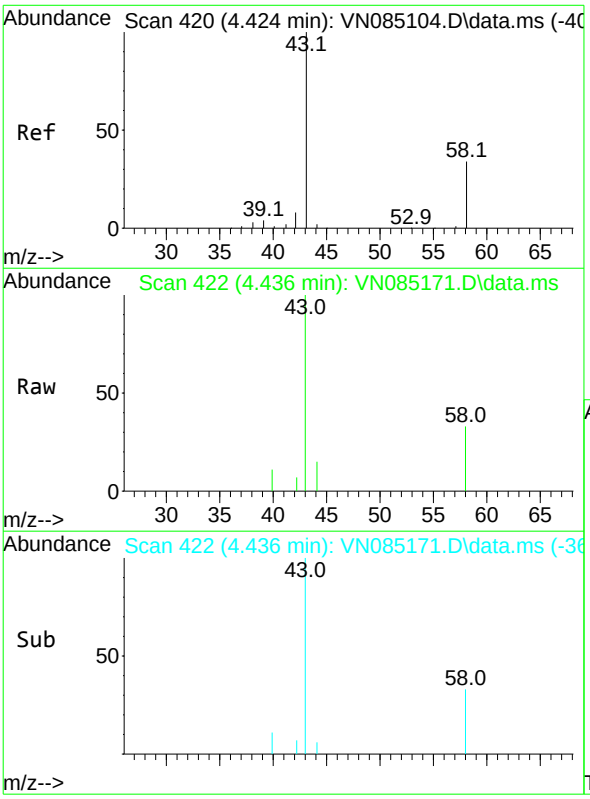
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085171.D
Acq: 10 Dec 2024 17:17

Instrument :
MSVOA_N
ClientSampleId :
OF-3

Tgt Ion:168 Resp: 130450

Ion	Ratio	Lower	Upper
168	100		
99	64.0	51.2	76.8

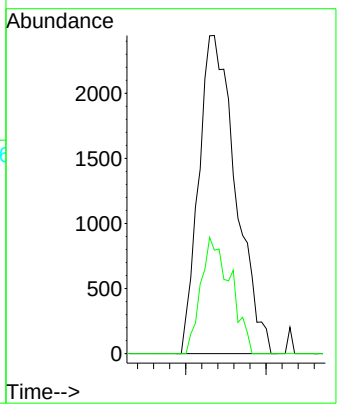


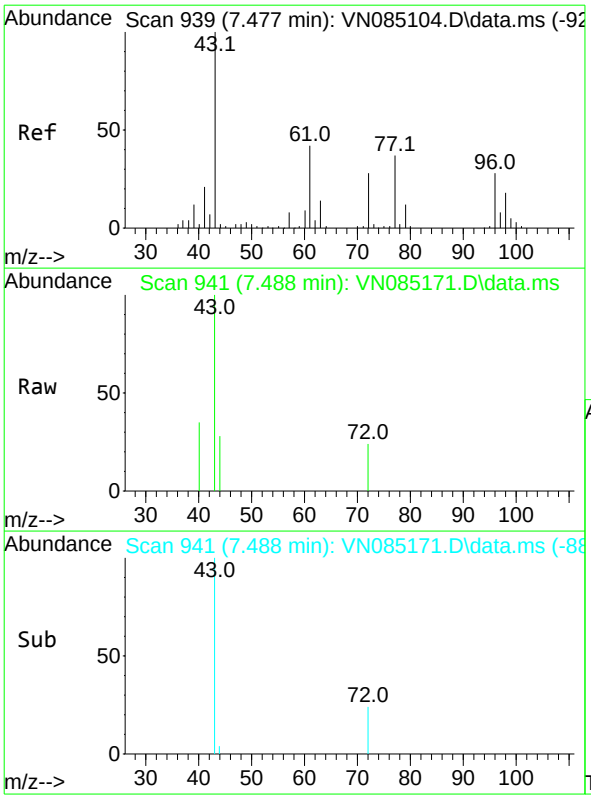


#16
Acetone
Concen: 14.461 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN085171.D
Acq: 10 Dec 2024 17:17

Tgt Ion: 43 Resp: 7826

Ion	Ratio	Lower	Upper
43	100		
58	32.5	25.4	38.2



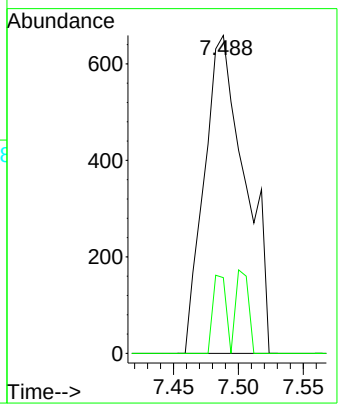


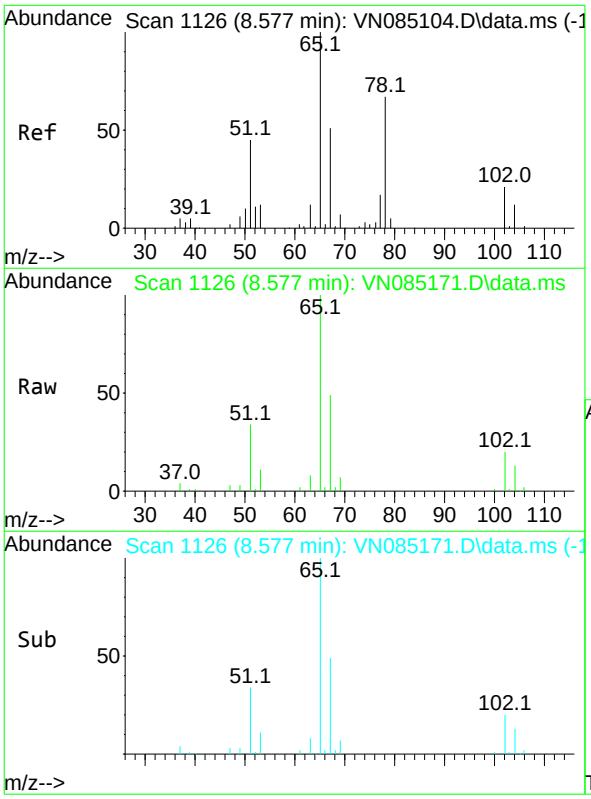
#25
2-Butanone
Concen: 1.632 ug/l
RT: 7.488 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN085171.D
Acq: 10 Dec 2024 17:17

Instrument :
MSVOA_N
ClientSampleId :
OF-3

Tgt Ion: 43 Resp: 1444

Ion	Ratio	Lower	Upper
43	100		
72	23.8	21.4	32.0

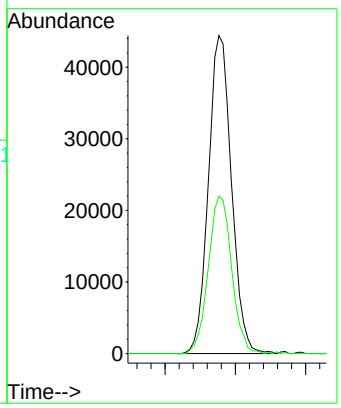


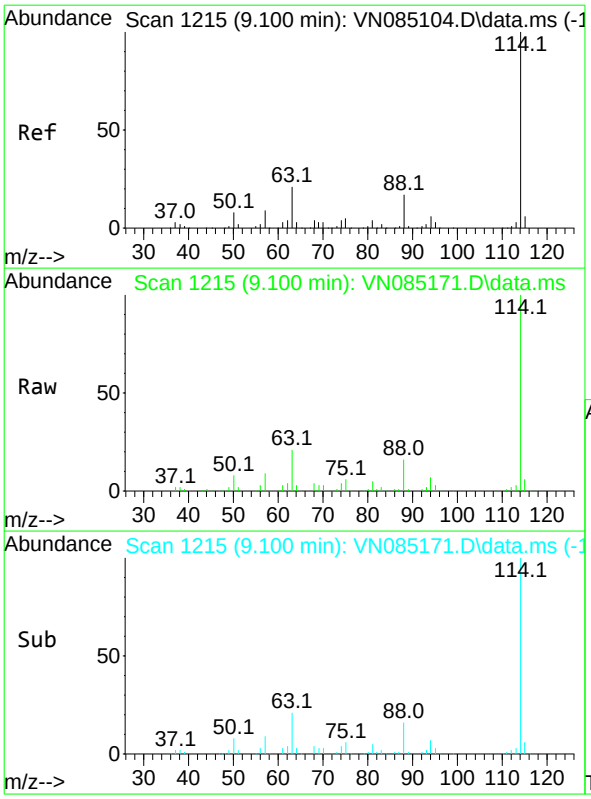


#33
1,2-Dichloroethane-d4
Concen: 54.447 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085171.D
Acq: 10 Dec 2024 17:17

Tgt Ion: 65 Resp: 101172

Ion	Ratio	Lower	Upper
65	100		
67	50.2	0.0	105.0



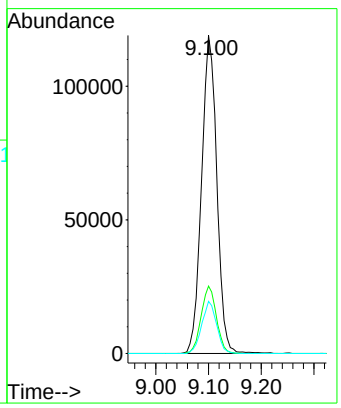


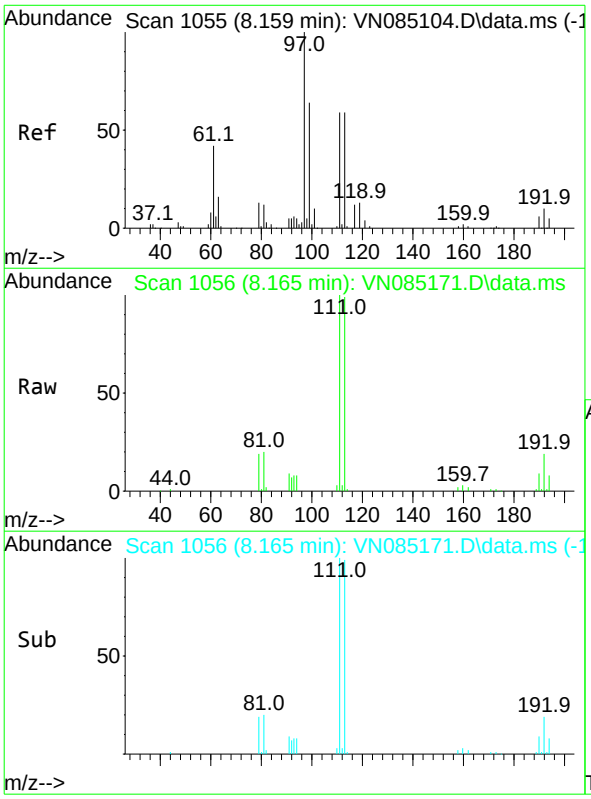
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. 0.006 min
Lab File: VN085171.D
Acq: 10 Dec 2024 17:17

Instrument :
MSVOA_N
ClientSampleId :
OF-3

Tgt Ion:114 Resp: 239679

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	41.0
88	16.4	0.0	34.8

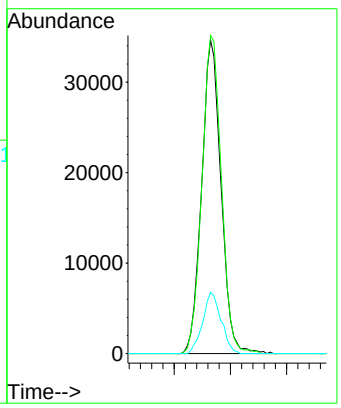


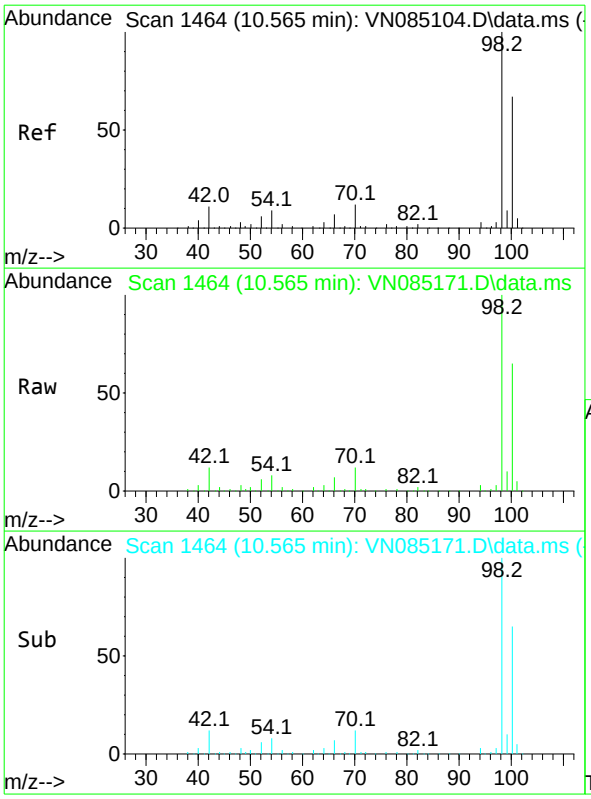


#35
Dibromofluoromethane
Concen: 51.196 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085171.D
Acq: 10 Dec 2024 17:17

Tgt Ion:113 Resp: 82748

Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.0	123.0
192	18.6	14.8	22.2



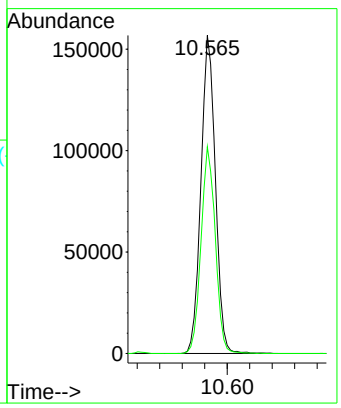


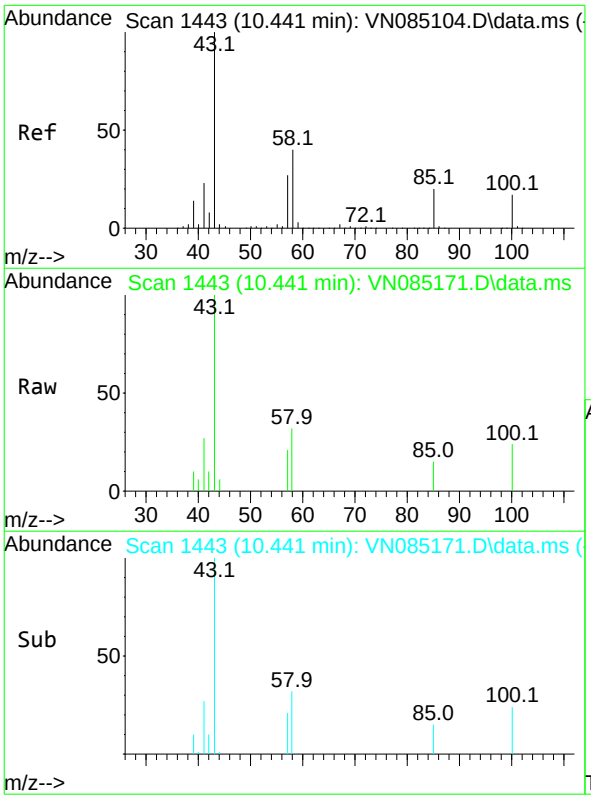
#50
Toluene-d8
Concen: 48.337 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN085171.D
Acq: 10 Dec 2024 17:17

Instrument :
MSVOA_N
ClientSampleId :
OF-3

Tgt Ion: 98 Resp: 279990

Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.5	78.7

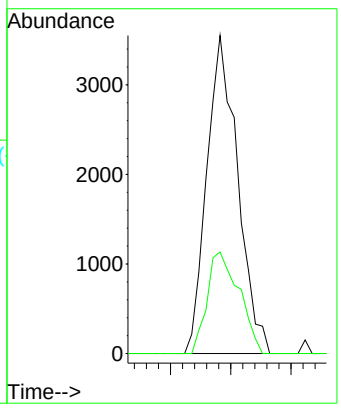


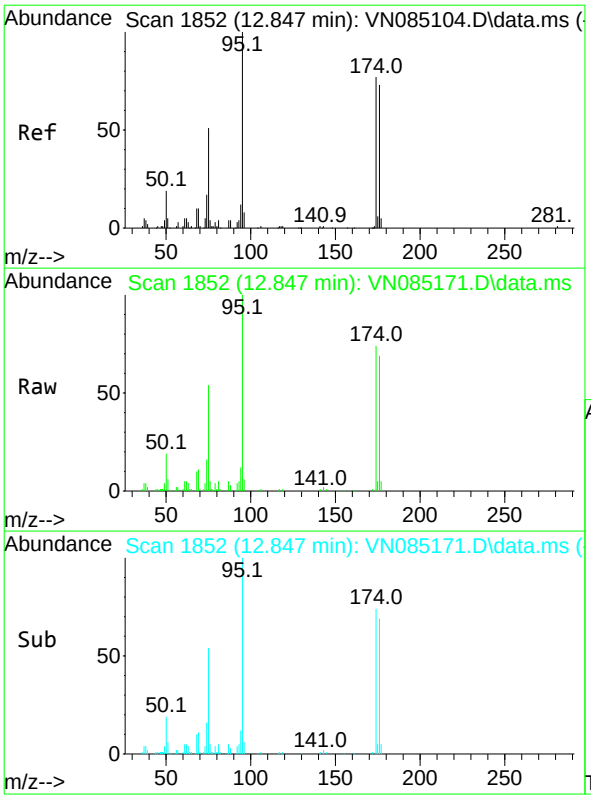


#51
4-Methyl-2-Pentanone
Concen: 3.351 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085171.D
Acq: 10 Dec 2024 17:17

Tgt Ion: 43 Resp: 6327

Ion	Ratio	Lower	Upper
43	100		
58	33.0	32.1	48.1



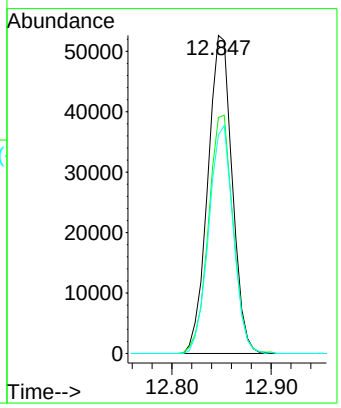


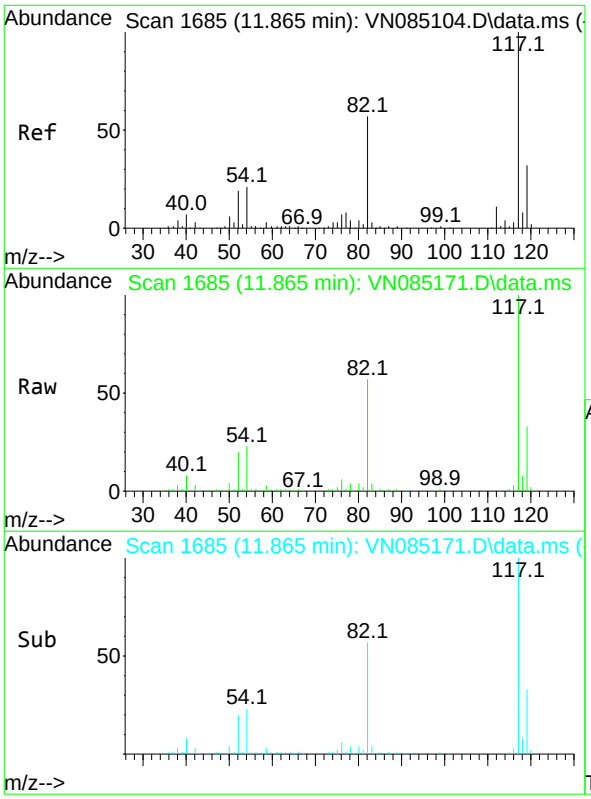
#62
4-Bromofluorobenzene
Concen: 41.532 ug/l
RT: 12.847 min Scan# 18
Delta R.T. -0.000 min
Lab File: VN085171.D
Acq: 10 Dec 2024 17:17

Instrument :
MSVOA_N
ClientSampleId :
OF-3

Tgt Ion: 95 Resp: 89967

Ion	Ratio	Lower	Upper
95	100		
174	75.8	0.0	146.6
176	71.6	0.0	141.8

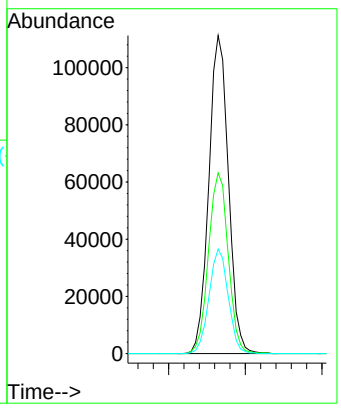


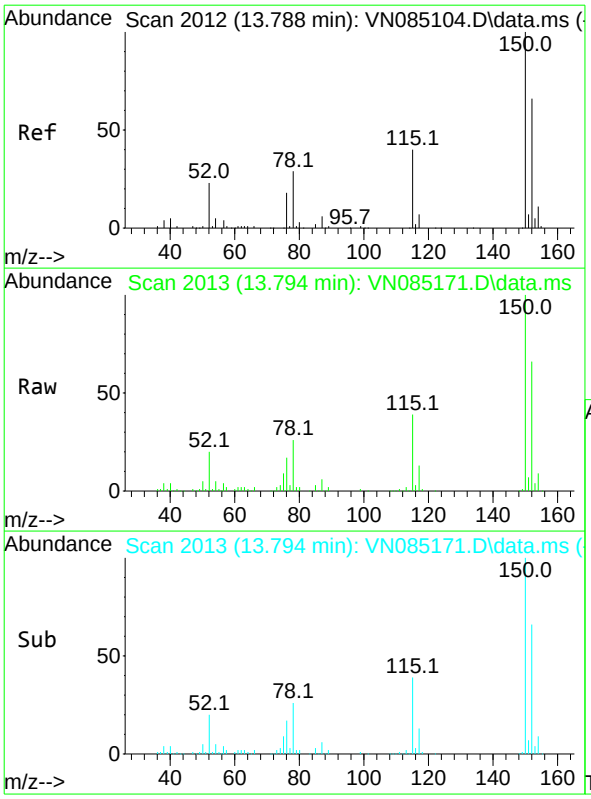


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085171.D
Acq: 10 Dec 2024 17:17

Tgt Ion:117 Resp: 197437

Ion	Ratio	Lower	Upper
117	100		
82	56.8	46.0	69.0
119	32.9	25.6	38.4



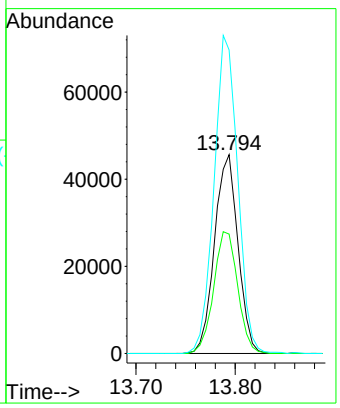


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN085171.D
Acq: 10 Dec 2024 17:17

Instrument :
MSVOA_N
ClientSampleId :
OF-3

Tgt Ion:152 Resp: 75083

Ion	Ratio	Lower	Upper
152	100		
115	62.7	31.7	95.1
150	161.1	0.0	351.4



CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ATCE02

Lab Code: CHEM Case No.: P5240 SAS No.: P5240 SDG No.: P5240

Instrument ID: MSVOA_N Calibration Date(s): 11/22/2024 11/22/2024

Heated Purge: (Y/N) N Calibration Time(s): 11:22 13:45

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

LAB FILE ID: RRF100 = VN085005.D RRF050 = VN085006.D RRF020 = VN085007.D
RRF010 = VN085008.D RRF005 = VN085009.D RRF001 = VN085010.D

COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	$\overline{RRF}$	% RSD
Benzene	1.528	1.424	1.443	1.358	1.452	1.462	1.445	3.8
Toluene	0.932	0.887	0.881	0.792	0.859	0.780	0.855	6.9
Ethyl Benzene	2.063	1.945	1.880	1.698	1.809	1.644	1.840	8.5
m/p-Xylenes	0.778	0.737	0.732	0.663	0.666	0.626	0.700	8.2
o-Xylene	0.733	0.707	0.685	0.641	0.633	0.598	0.666	7.6
1,2-Dichloroethane-d4	0.738	0.705	0.658	0.735	0.725		0.712	4.6
Dibromofluoromethane	0.361	0.340	0.311	0.330	0.343		0.337	5.4
Toluene-d8	1.326	1.249	1.152	1.162	1.154		1.208	6.4
4-Bromofluorobenzene	0.476	0.467	0.425	0.438	0.454		0.452	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 : 82N112224W.M
Title : SW846 8260
Last Update : Sat Nov 23 02:54:10 2024
Response Via : Initial Calibration

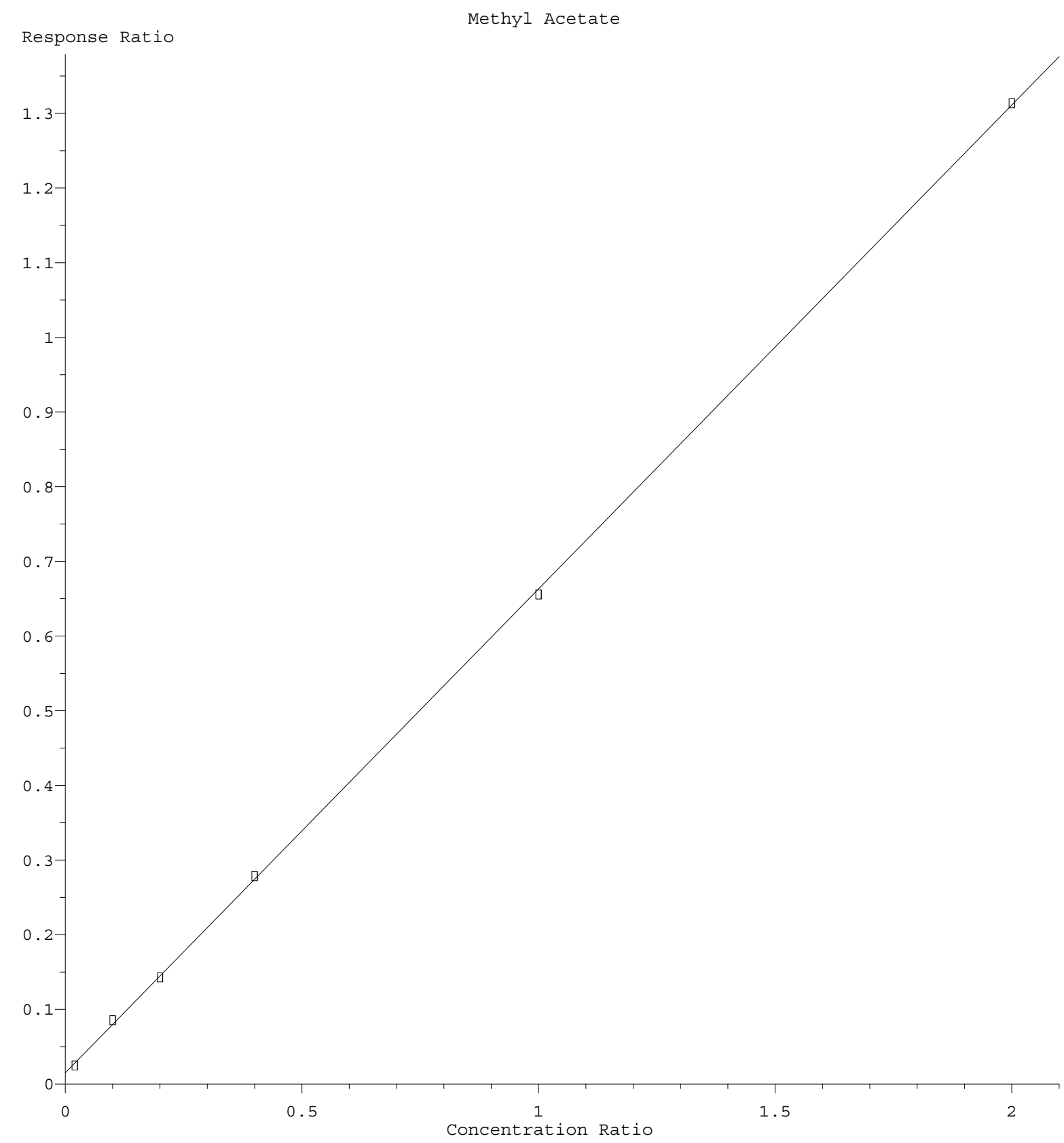
Calibration Files
1 =VN085010.D 5 =VN085009.D 10 =VN085008.D 20 =VN085007.D 50 =VN085006.D 100 =VN085005.D

		Compound	1	5	10	20	50	100	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.558	0.590	0.538	0.567	0.560	0.579	0.565	3.24
3)	P	Chloromethane	0.906	0.664	0.603	0.599	0.591	0.572	0.656	19.31
4)	C	Vinyl Chloride	0.608	0.608	0.569	0.579	0.575	0.597	0.589	2.87#
5)	T	Bromomethane		0.366	0.331	0.327	0.311	0.316	0.330	6.54
6)	T	Chloroethane	0.458	0.407	0.390	0.380	0.379	0.370	0.397	8.12
7)	T	Trichlorofluor...	1.036	1.041	0.947	1.005	0.965	1.021	1.002	3.85
8)	T	Diethyl Ether	0.316	0.345	0.322	0.349	0.349	0.367	0.341	5.63
9)	T	1,1,2-Trichlor...	0.573	0.576	0.551	0.569	0.551	0.590	0.569	2.65
10)	T	Methyl Iodide		0.764	0.704	0.778	0.747	0.769	0.753	3.91
11)	T	Tert butyl alc...		0.117	0.096	0.091	0.090	0.081	0.095	14.07
12)	CM	1,1-Dichloroet...	0.531	0.543	0.506	0.534	0.524	0.547	0.531	2.78#
13)	T	Acrolein		0.057	0.066	0.061	0.070	0.064	0.064	7.50
14)	T	Allyl chloride	0.936	0.874	0.868	0.876	0.886	0.929	0.895	3.32
15)	T	Acrylonitrile	0.303	0.274	0.251	0.264	0.263	0.262	0.269	6.71
16)	T	Acetone	0.209	0.195	0.203	0.206	0.203	0.229	0.207	5.48
17)	T	Carbon Disulfide	1.829	1.589	1.462	1.535	1.472	1.511	1.566	8.73
18)	T	Methyl Acetate	1.244	0.855	0.714	0.696	0.656	0.657	0.804	28.37
19)	T	Methyl tert-bu...	1.674	1.675	1.663	1.764	1.768	1.860	1.734	4.48
20)	T	Methylene Chlo...	0.748	0.630	0.610	0.619	0.588	0.603	0.633	9.21
21)	T	trans-1,2-Dich...	0.571	0.568	0.519	0.565	0.558	0.570	0.558	3.54
22)	T	Diisopropyl ether	1.825	1.816	1.749	1.815	1.781	1.817	1.801	1.64
23)	T	Vinyl Acetate	1.161	1.180	1.192	1.279	1.296	1.346	1.242	6.04
24)	P	1,1-Dichloroet...	1.116	1.092	1.033	1.084	1.049	1.091	1.078	2.85
25)	T	2-Butanone	0.377	0.328	0.317	0.340	0.331	0.341	0.339	6.03
26)	T	2,2-Dichloropr...	1.083	1.000	0.945	0.982	0.993	1.034	1.006	4.72
27)	T	cis-1,2-Dichlo...	0.729	0.681	0.634	0.672	0.657	0.667	0.673	4.68
28)	T	Bromochloromet...	0.438	0.399	0.390	0.409	0.395	0.409	0.407	4.24
29)	T	Tetrahydrofuran	0.213	0.212	0.199	0.212	0.214	0.214	0.211	2.69
30)	C	Chloroform	1.344	1.140	1.073	1.104	1.099	1.118	1.146	8.65#
31)	T	Cyclohexane		1.091	0.915	0.942	0.882	0.914	0.949	8.68
32)	T	1,1,1-Trichlor...	1.135	1.005	0.993	1.022	1.013	1.047	1.036	5.02
33)	S	1,2-Dichloroet...		0.725	0.735	0.658	0.705	0.738	0.712	4.60
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.343	0.330	0.311	0.340	0.361	0.337	5.43
36)	T	1,1-Dichloropr...	0.451	0.469	0.417	0.454	0.455	0.493	0.457	5.46
37)	T	Ethyl Acetate	0.412	0.425	0.404	0.427	0.403	0.421	0.415	2.54
38)	T	Carbon Tetrach...	0.500	0.529	0.484	0.543	0.534	0.572	0.527	5.93
39)	T	Methylcyclohexane	0.382	0.469	0.430	0.486	0.507	0.574	0.475	13.89
40)	TM	Benzene	1.462	1.452	1.358	1.443	1.424	1.528	1.444	3.81
41)	T	Methacrylonitrile	0.247	0.203	0.223	0.229	0.230	0.246	0.230	7.11
42)	TM	1,2-Dichloroet...	0.492	0.529	0.452	0.497	0.481	0.514	0.494	5.42
43)	T	Isopropyl Acetate	1.157	0.853	0.786	0.781	0.753	0.844	0.862	17.33
44)	TM	Trichloroethene	0.330	0.347	0.320	0.338	0.327	0.352	0.336	3.60
45)	C	1,2-Dichloropr...	0.374	0.352	0.340	0.351	0.349	0.369	0.356	3.68#
46)	T	Dibromomethane	0.260	0.249	0.225	0.248	0.244	0.257	0.247	4.94
47)	T	Bromodichlorom...	0.540	0.520	0.488	0.520	0.522	0.554	0.524	4.26
48)	T	Methyl methacr...	0.304	0.316	0.302	0.323	0.329	0.353	0.321	5.84
49)	T	1,4-Dioxane	0.005	0.005	0.006	0.006	0.006	0.005	0.006	3.84
50)	S	Toluene-d8		1.154	1.162	1.152	1.249	1.326	1.208	6.36
51)	T	4-Methyl-2-Pen...	0.361	0.394	0.382	0.406	0.406	0.414	0.394	5.01
52)	CM	Toluene	0.780	0.859	0.792	0.881	0.887	0.932	0.855	6.88#
53)	T	t-1,3-Dichloro...	0.525	0.479	0.486	0.539	0.549	0.574	0.525	7.01
54)	T	cis-1,3-Dichlo...	0.541	0.533	0.506	0.571	0.576	0.617	0.557	6.97
55)	T	1,1,2-Trichlor...	0.301	0.314	0.314	0.324	0.322	0.336	0.319	3.72

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 82N112224W.M

56)	T	Ethyl methacry...	0.370	0.429	0.437	0.491	0.518	0.549	0.465	14.12
57)	T	1,3-Dichloropr...	0.572	0.562	0.526	0.558	0.558	0.588	0.561	3.66
58)	T	2-Chloroethyl ...	0.167	0.194	0.220	0.243	0.271	0.275	0.228	18.86
59)	T	2-Hexanone	0.245	0.297	0.280	0.317	0.312	0.315	0.295	9.45
60)	T	Dibromochlorom...	0.411	0.387	0.350	0.392	0.386	0.410	0.389	5.71
61)	T	1,2-Dibromoethane	0.323	0.338	0.318	0.328	0.330	0.342	0.330	2.74
62)	S	4-Bromofluorob...		0.454	0.438	0.425	0.467	0.476	0.452	4.61
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.307	0.374	0.322	0.340	0.328	0.350	0.337	7.01
65)	PM	Chlorobenzene	1.241	1.133	1.089	1.123	1.090	1.128	1.134	4.91
66)	T	1,1,1,2-Tetrac...	0.390	0.420	0.383	0.388	0.398	0.417	0.399	3.93
67)	C	Ethyl Benzene	1.644	1.809	1.698	1.880	1.945	2.063	1.840	8.48#
68)	T	m/p-Xylenes	0.626	0.666	0.663	0.732	0.737	0.778	0.700	8.17
69)	T	o-Xylene	0.598	0.633	0.641	0.685	0.707	0.733	0.666	7.63
70)	T	Styrene	0.921	1.038	1.069	1.178	1.195	1.248	1.108	10.94
71)	P	Bromoform	0.289	0.299	0.273	0.299	0.310	0.309	0.296	4.58
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.175	3.464	3.402	3.605	3.632	3.888	3.527	6.84
74)	T	N-amyl acetate	1.339	1.383	1.351	1.543	1.552	1.553	1.454	7.30
75)	P	1,1,2,2-Tetrac...	1.517	1.231	1.148	1.152	1.103	1.076	1.204	13.45
76)	T	1,2,3-Trichlor...	1.023	0.822	0.768	0.933	0.903	1.009	0.909	11.13
77)	T	Bromobenzene	1.072	0.967	0.902	0.926	0.919	0.910	0.949	6.76
78)	T	n-propylbenzene	3.534	4.013	3.880	4.201	4.236	4.547	4.068	8.51
79)	T	2-Chlorotoluene	2.779	2.679	2.638	2.751	2.671	2.776	2.716	2.23
80)	T	1,3,5-Trimethy...	2.519	2.842	2.864	3.115	3.146	3.273	2.960	9.24
81)	T	trans-1,4-Dich...		0.440	0.390	0.403	0.408	0.418	0.412	4.60
82)	T	4-Chlorotoluene	2.977	2.819	2.725	2.846	2.774	2.822	2.827	3.00
83)	T	tert-Butylbenzene	2.454	2.444	2.436	2.590	2.631	2.725	2.547	4.72
84)	T	1,2,4-Trimethy...	2.704	2.890	2.927	3.195	3.241	3.322	3.047	7.93
85)	T	sec-Butylbenzene	2.976	3.246	3.280	3.593	3.667	3.880	3.440	9.61
86)	T	p-Isopropyltol...	2.279	2.585	2.740	3.075	3.092	3.269	2.840	13.10
87)	T	1,3-Dichlorobe...	2.326	1.941	1.744	1.785	1.717	1.720	1.872	12.69
88)	T	1,4-Dichlorobe...	2.337	2.034	1.788	1.819	1.760	1.726	1.911	12.31
89)	T	n-Butylbenzene	2.805	2.500	2.375	2.613	2.671	2.882	2.641	7.13
90)	T	Hexachloroethane	0.685	0.634	0.568	0.596	0.607	0.624	0.619	6.42
91)	T	1,2-Dichlorobe...	2.157	1.815	1.685	1.756	1.687	1.665	1.794	10.39
92)	T	1,2-Dibromo-3-...	0.265	0.249	0.223	0.227	0.219	0.214	0.233	8.48
93)	T	1,2,4-Trichlor...	1.178	0.973	0.919	0.949	0.902	0.927	0.975	10.53
94)	T	Hexachlorobuta...	0.556	0.474	0.408	0.441	0.403	0.416	0.450	12.94
95)	T	Naphthalene	2.952	2.683	2.455	2.839	2.835	2.892	2.776	6.52
96)	T	1,2,3-Trichlor...	1.041	0.926	0.849	0.944	0.898	0.922	0.930	6.84

(#) = Out of Range



Response = 6.478e-001 * Amt + 1.521e-002
Coef of Det (r^2) = 0.999899 Curve Fit: Linear
Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N112224W.M
Calibration Table Last Updated: Sat Nov 23 02:54:10 2024

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085005.D
Acq On : 22 Nov 2024 11:22
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 23 01:57:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	174548	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	280535	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	240979	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	118591	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	257466	103.553	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 207.100%#			
35) Dibromofluoromethane	8.165	113	202772	107.183	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 214.360%#			
50) Toluene-d8	10.565	98	743711	109.694	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 219.380%#			
62) 4-Bromofluorobenzene	12.847	95	266822	105.236	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 210.480%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	202252	102.473	ug/l	98
3) Chloromethane	2.354	50	199697	87.235	ug/l	96
4) Vinyl Chloride	2.512	62	208274	101.241	ug/l	99
5) Bromomethane	2.912	94	110325	95.681	ug/l	93
6) Chloroethane	3.089	64	129044	93.064	ug/l	98
7) Trichlorofluoromethane	3.483	101	356271	101.806	ug/l	98
8) Diethyl Ether	3.953	74	128277	107.697	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.359	101	205989	103.783	ug/l	99
10) Methyl Iodide	4.577	142	268539	102.212	ug/l	98
11) Tert butyl alcohol	5.553	59	141986	427.348	ug/l	97
12) 1,1-Dichloroethene	4.330	96	190847	103.013	ug/l	97
13) Acrolein	4.171	56	111387	502.422	ug/l	96
14) Allyl chloride	5.012	41	324148	103.788	ug/l	99
15) Acrylonitrile	5.712	53	457016	485.851	ug/l	100
16) Acetone	4.424	43	399104	551.165	ug/l	98
17) Carbon Disulfide	4.700	76	527408	96.448	ug/l	97
18) Methyl Acetate	5.018	43	229272	100.214	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	649308	107.267	ug/l	99
20) Methylene Chloride	5.265	84	210468	95.251	ug/l	96
21) trans-1,2-Dichloroethene	5.777	96	199008	102.076	ug/l	92
22) Diisopropyl ether	6.665	45	634389	100.923	ug/l	98
23) Vinyl Acetate	6.595	43	2349580	541.815	ug/l	99
24) 1,1-Dichloroethane	6.565	63	380941	101.270	ug/l	98
25) 2-Butanone	7.477	43	596036	503.469	ug/l	99
26) 2,2-Dichloropropane	7.483	77	360997	102.775	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	232992	99.132	ug/l	97
28) Bromochloromethane	7.806	49	142811	100.575	ug/l	97
29) Tetrahydrofuran	7.836	42	373666	507.558	ug/l	99
30) Chloroform	7.959	83	390189	97.513	ug/l	98
31) Cyclohexane	8.253	56	318957	96.305	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	365495	101.081	ug/l	98
36) 1,1-Dichloropropene	8.365	75	276659	107.966	ug/l	99
37) Ethyl Acetate	7.553	43	236399	101.478	ug/l	100
38) Carbon Tetrachloride	8.359	117	321086	108.554	ug/l	97
39) Methylcyclohexane	9.594	83	322151	120.983	ug/l	97
40) Benzene	8.600	78	857333	105.783	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085005.D
Acq On : 22 Nov 2024 11:22
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 23 01:57:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.777	41	138044	107.026 ug/l	99
42) 1,2-Dichloroethane	8.665	62	288320	103.986 ug/l	100
43) Isopropyl Acetate	8.683	43	473683	97.891 ug/l	98
44) Trichloroethene	9.347	130	197483	104.851 ug/l	96
45) 1,2-Dichloropropane	9.618	63	206776	103.586 ug/l	99
46) Dibromomethane	9.706	93	144116	103.900 ug/l	99
47) Bromodichloromethane	9.883	83	310562	105.641 ug/l	98
48) Methyl methacrylate	9.677	41	197798	109.847 ug/l	98
49) 1,4-Dioxane	9.694	88	61188	1959.471 ug/l #	89
51) 4-Methyl-2-Pentanone	10.441	43	1162080	525.783 ug/l	98
52) Toluene	10.630	92	522980	109.001 ug/l	100
53) t-1,3-Dichloropropene	10.830	75	321790	109.180 ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	346064	110.678 ug/l	97
55) 1,1,2-Trichloroethane	11.012	97	188724	105.602 ug/l	99
56) Ethyl methacrylate	10.871	69	307844	117.883 ug/l	98
57) 1,3-Dichloropropane	11.159	76	329902	104.887 ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	771827	602.530 ug/l	99
59) 2-Hexanone	11.194	43	884879	535.314 ug/l	100
60) Dibromochloromethane	11.359	129	229875	105.249 ug/l	98
61) 1,2-Dibromoethane	11.465	107	191654	103.624 ug/l	98
64) Tetrachloroethene	11.100	164	168926	104.032 ug/l	94
65) Chlorobenzene	11.888	112	543518	99.452 ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	201000	104.459 ug/l	99
67) Ethyl Benzene	11.959	91	994049	112.113 ug/l	100
68) m/p-Xylenes	12.071	106	749782	222.116 ug/l	100
69) o-Xylene	12.394	106	353441	110.070 ug/l	99
70) Styrene	12.406	104	601271	112.600 ug/l	100
71) Bromoform	12.576	173	148879	104.234 ug/l #	99
73) Isopropylbenzene	12.694	105	922085	110.216 ug/l	100
74) N-amyl acetate	12.494	43	368260	106.820 ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	255286	89.359 ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	239373m	107.901 ug/l	
77) Bromobenzene	12.976	156	215866	95.881 ug/l	98
78) n-propylbenzene	13.035	91	1078373	111.753 ug/l	99
79) 2-Chlorotoluene	13.123	91	658525	102.230 ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	776252	110.573 ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	99218	104.513 ug/l	96
82) 4-Chlorotoluene	13.218	91	669311	99.811 ug/l	99
83) tert-Butylbenzene	13.435	119	646369	107.009 ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	787962	109.040 ug/l	100
85) sec-Butylbenzene	13.612	105	920223	112.777 ug/l	99
86) p-Isopropyltoluene	13.729	119	775322	115.104 ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	407844	91.842 ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	409489	90.361 ug/l	99
89) n-Butylbenzene	14.053	91	683538	109.120 ug/l	99
90) Hexachloroethane	14.335	117	147973	100.783 ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	394872	92.796 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	50863	92.071 ug/l	95
93) 1,2,4-Trichlorobenzene	15.388	180	219866	95.107 ug/l	99
94) Hexachlorobutadiene	15.500	225	98588	92.405 ug/l	99
95) Naphthalene	15.641	128	685964	104.183 ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	218578	99.092 ug/l	99

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085005.D
Acq On : 22 Nov 2024 11:22
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

Quant Time: Nov 23 01:57:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 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

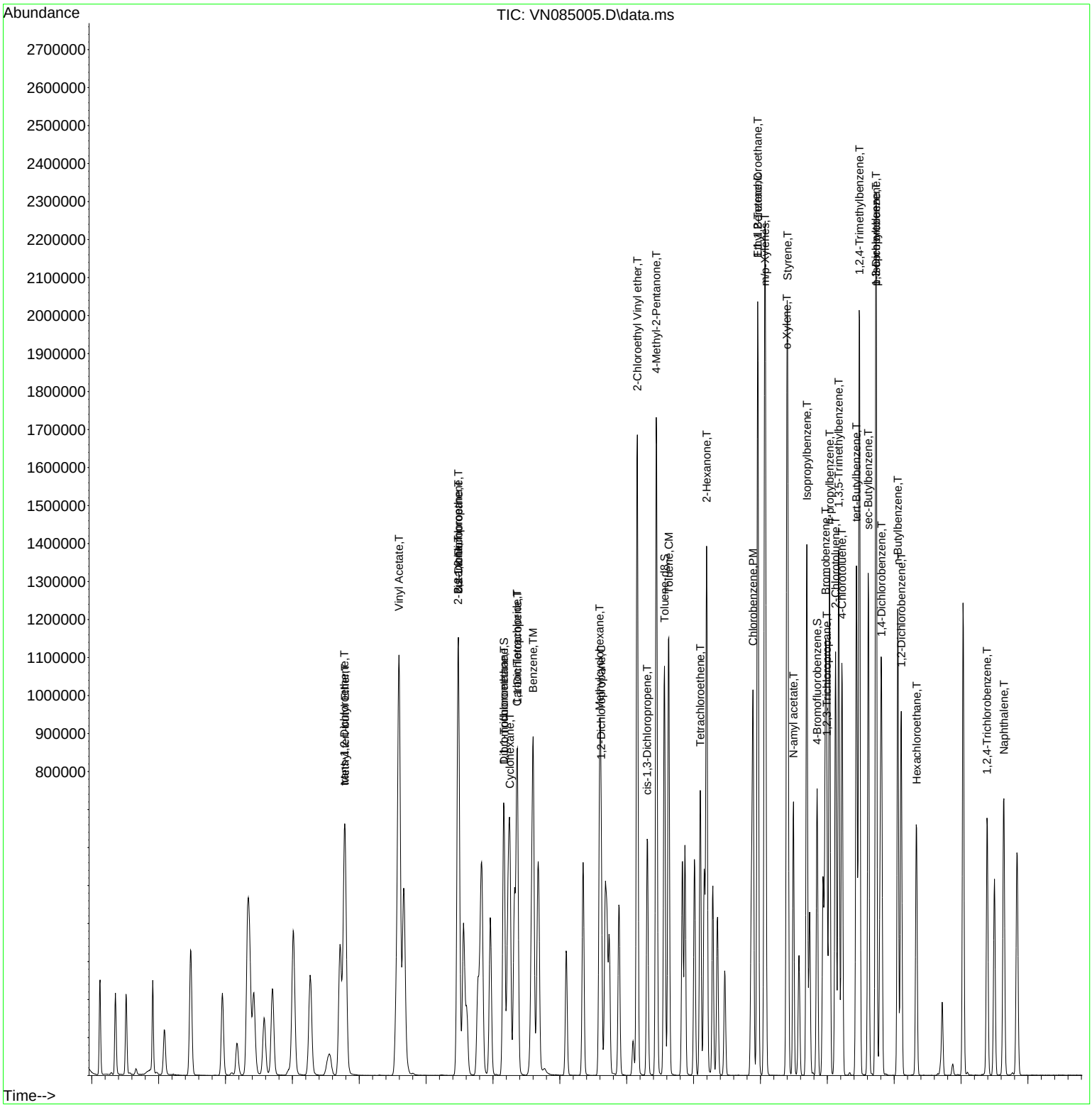
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085005.D
Acq On : 22 Nov 2024 11:22
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 23 01:57:18 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085006.D
Acq On : 22 Nov 2024 11:46
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 23 01:58:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	163353	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	271467	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	232158	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	114469	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	115244	49.528	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 99.060%			
35) Dibromofluoromethane	8.159	113	92297	50.417	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.840%			
50) Toluene-d8	10.565	98	338938	51.662	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.320%			
62) 4-Bromofluorobenzene	12.847	95	126840	51.698	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.118	85	91455	49.512	ug/l	100
3) Chloromethane	2.360	50	96463	45.027	ug/l	100
4) Vinyl Chloride	2.512	62	93960	48.804	ug/l	100
5) Bromomethane	2.901	94	50828	47.102	ug/l	100
6) Chloroethane	3.065	64	61844	47.657	ug/l	100
7) Trichlorofluoromethane	3.459	101	157642	48.134	ug/l	100
8) Diethyl Ether	3.948	74	57011	51.145	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.353	101	90080	48.495	ug/l	100
10) Methyl Iodide	4.571	142	122086	49.653	ug/l	100
11) Tert butyl alcohol	5.542	59	73708	237.049	ug/l	100
12) 1,1-Dichloroethene	4.318	96	85520	49.324	ug/l	100
13) Acrolein	4.165	56	57099	275.201	ug/l	100
14) Allyl chloride	5.006	41	144773	49.531	ug/l	100
15) Acrylonitrile	5.712	53	214719	243.910	ug/l	100
16) Acetone	4.424	43	165611	244.384	ug/l	100
17) Carbon Disulfide	4.695	76	240507	46.996	ug/l	100
18) Methyl Acetate	5.018	43	107105	49.436	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	288810	50.982	ug/l	100
20) Methylene Chloride	5.265	84	96084	46.464	ug/l	100
21) trans-1,2-Dichloroethene	5.771	96	91214	49.992	ug/l	100
22) Diisopropyl ether	6.665	45	290883	49.447	ug/l	100
23) Vinyl Acetate	6.595	43	1058594	260.842	ug/l	100
24) 1,1-Dichloroethane	6.553	63	171385	48.684	ug/l	100
25) 2-Butanone	7.483	43	270539	244.184	ug/l	100
26) 2,2-Dichloropropane	7.483	77	162280	49.367	ug/l	100
27) cis-1,2-Dichloroethene	7.477	96	107332	48.796	ug/l	100
28) Bromochloromethane	7.806	49	64580	48.597	ug/l	100
29) Tetrahydrofuran	7.836	42	175063	254.088	ug/l	100
30) Chloroform	7.959	83	179452	47.921	ug/l	100
31) Cyclohexane	8.253	56	144139	46.504	ug/l	100
32) 1,1,1-Trichloroethane	8.159	97	165474	48.900	ug/l	100
36) 1,1-Dichloropropene	8.365	75	123540	49.822	ug/l	100
37) Ethyl Acetate	7.553	43	109296	48.484	ug/l	100
38) Carbon Tetrachloride	8.353	117	144897	50.624	ug/l	100
39) Methylcyclohexane	9.594	83	137583	53.395	ug/l	100
40) Benzene	8.600	78	386616	49.297	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085006.D
Acq On : 22 Nov 2024 11:46
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 23 01:58:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.771	41	62534	50.102	ug/l		100
42) 1,2-Dichloroethane	8.665	62	130440	48.616	ug/l		100
43) Isopropyl Acetate	8.683	43	204483	43.670	ug/l		100
44) Trichloroethene	9.347	130	88746	48.692	ug/l		100
45) 1,2-Dichloropropane	9.618	63	94677	49.013	ug/l		100
46) Dibromomethane	9.706	93	66370	49.447	ug/l		100
47) Bromodichloromethane	9.883	83	141808	49.849	ug/l		100
48) Methyl methacrylate	9.677	41	89202	51.193	ug/l		100
49) 1,4-Dioxane	9.694	88	31557	1044.331	ug/l		100
51) 4-Methyl-2-Pentanone	10.441	43	551484	257.854	ug/l		100
52) Toluene	10.624	92	240730	51.850	ug/l		100
53) t-1,3-Dichloropropene	10.835	75	148995	52.241	ug/l		100
54) cis-1,3-Dichloropropene	10.306	75	156342	51.671	ug/l		100
55) 1,1,2-Trichloroethane	11.012	97	87334	50.501	ug/l		100
56) Ethyl methacrylate	10.871	69	140546	55.617	ug/l		100
57) 1,3-Dichloropropane	11.159	76	151573	49.800	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	368190	297.030	ug/l		100
59) 2-Hexanone	11.194	43	424152	265.165	ug/l		100
60) Dibromochloromethane	11.359	129	104699	49.538	ug/l		100
61) 1,2-Dibromoethane	11.465	107	89471	49.991	ug/l		100
64) Tetrachloroethene	11.100	164	76257	48.747	ug/l		100
65) Chlorobenzene	11.888	112	252937	48.041	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.959	131	92289	49.785	ug/l		100
67) Ethyl Benzene	11.959	91	451491	52.856	ug/l		100
68) m/p-Xylenes	12.071	106	342033	105.174	ug/l		100
69) o-Xylene	12.394	106	164137	53.059	ug/l		100
70) Styrene	12.406	104	277349	53.912	ug/l		100
71) Bromoform	12.576	173	71858	52.221	ug/l	#	100
73) Isopropylbenzene	12.694	105	415716	51.479	ug/l		100
74) N-amyl acetate	12.494	43	177685	53.396	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.935	83	126215	45.771	ug/l		100
76) 1,2,3-Trichloropropane	12.994	75	103311m	48.246	ug/l		
77) Bromobenzene	12.976	156	105184	48.402	ug/l		100
78) n-propylbenzene	13.035	91	484892	52.059	ug/l		100
79) 2-Chlorotoluene	13.124	91	305747	49.174	ug/l		100
80) 1,3,5-Trimethylbenzene	13.171	105	360125	53.145	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	46724	50.990	ug/l		100
82) 4-Chlorotoluene	13.218	91	317569	49.063	ug/l		100
83) tert-Butylbenzene	13.435	119	301180	51.657	ug/l		100
84) 1,2,4-Trimethylbenzene	13.476	105	371046	53.195	ug/l		100
85) sec-Butylbenzene	13.612	105	419761	53.296	ug/l		100
86) p-Isopropyltoluene	13.723	119	353974	54.443	ug/l		100
87) 1,3-Dichlorobenzene	13.729	146	196552	45.855	ug/l		100
88) 1,4-Dichlorobenzene	13.812	146	201469	46.058	ug/l		100
89) n-Butylbenzene	14.053	91	305730	50.564	ug/l		100
90) Hexachloroethane	14.329	117	69444	49.001	ug/l		100
91) 1,2-Dichlorobenzene	14.106	146	193123	47.019	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.718	75	25059	46.995	ug/l		100
93) 1,2,4-Trichlorobenzene	15.388	180	103265	46.278	ug/l		100
94) Hexachlorobutadiene	15.500	225	46186	44.848	ug/l		100
95) Naphthalene	15.641	128	324523	51.063	ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	102772	48.269	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085006.D
Acq On : 22 Nov 2024 11:46
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

Quant Time: Nov 23 01:58:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 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

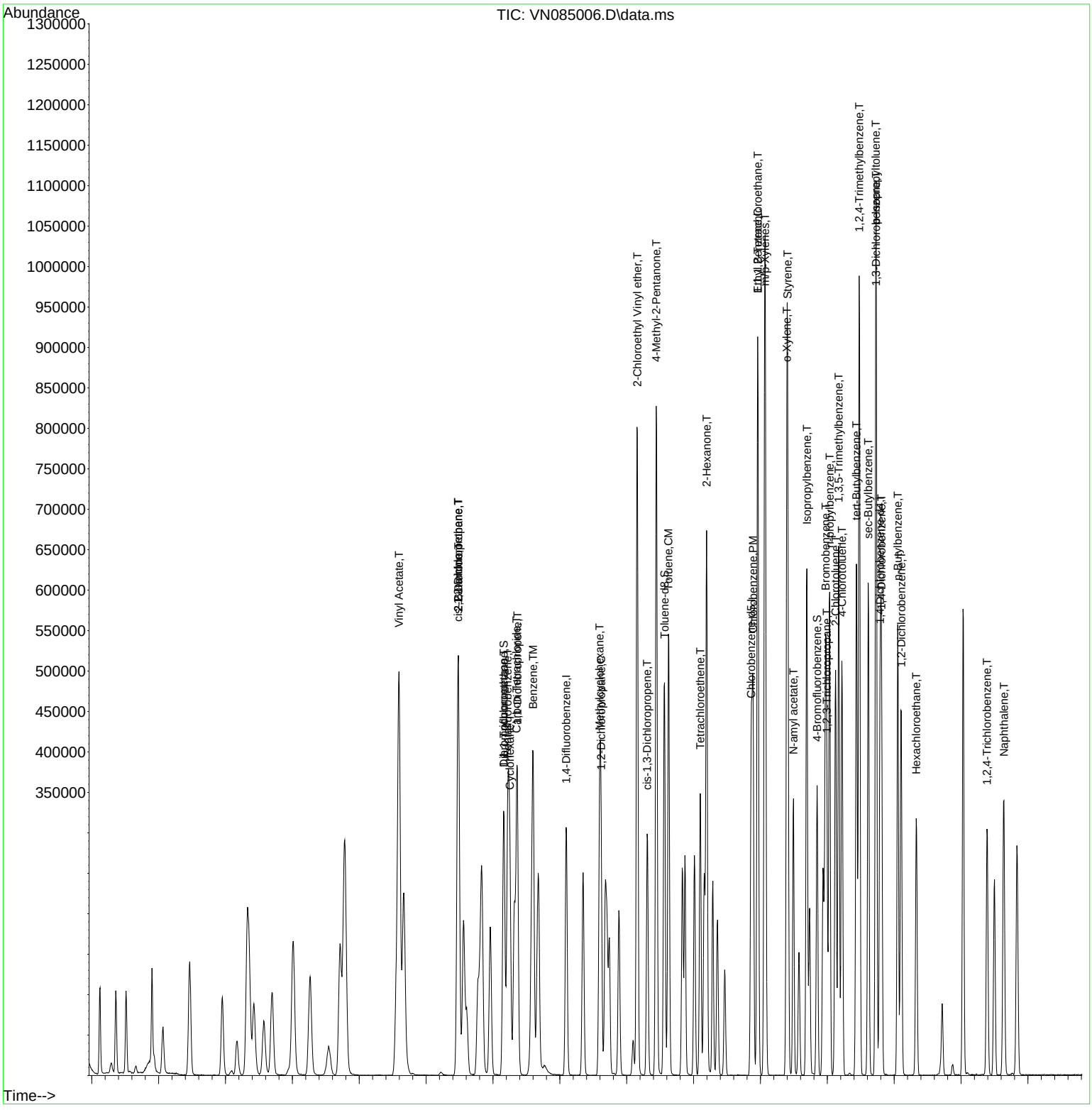
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085006.D
Acq On : 22 Nov 2024 11:46
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 23 01:58:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085007.D
Acq On : 22 Nov 2024 12:10
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

Quant Time: Nov 23 01:59:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	168636	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	283685	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	240895	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	116956	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	44399	18.483	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	36.960%#		
35) Dibromofluoromethane	8.159	113	35327	18.466	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	36.940%#		
50) Toluene-d8	10.565	98	130719	19.066	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	38.140%#		
62) 4-Bromofluorobenzene	12.847	95	48193	18.797	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	37.600%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.118	85	38229	20.048	ug/l	99
3) Chloromethane	2.359	50	40404	18.269	ug/l	91
4) Vinyl Chloride	2.512	62	39070	19.658	ug/l	94
5) Bromomethane	2.900	94	22076	19.817	ug/l	98
6) Chloroethane	3.071	64	25643	19.141	ug/l	98
7) Trichlorofluoromethane	3.471	101	67785	20.049	ug/l	94
8) Diethyl Ether	3.953	74	23514	20.434	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.359	101	38412	20.031	ug/l	99
10) Methyl Iodide	4.571	142	52498	20.683	ug/l	98
11) Tert butyl alcohol	5.536	59	30735	95.749	ug/l #	85
12) 1,1-Dichloroethene	4.330	96	36027	20.128	ug/l	97
13) Acrolein	4.177	56	20478	95.606	ug/l	96
14) Allyl chloride	5.006	41	59110	19.590	ug/l	99
15) Acrylonitrile	5.712	53	89152	98.100	ug/l	99
16) Acetone	4.430	43	69534	99.393	ug/l	96
17) Carbon Disulfide	4.694	76	103559	19.602	ug/l	96
18) Methyl Acetate	5.018	43	46954	20.318	ug/l	99
19) Methyl tert-butyl Ether	5.788	73	119013	20.350	ug/l	98
20) Methylene Chloride	5.265	84	41741	19.553	ug/l	89
21) trans-1,2-Dichloroethene	5.777	96	38088	20.221	ug/l	98
22) Diisopropyl ether	6.665	45	122443	20.162	ug/l	99
23) Vinyl Acetate	6.594	43	431313	102.948	ug/l	99
24) 1,1-Dichloroethane	6.559	63	73105	20.116	ug/l	98
25) 2-Butanone	7.482	43	114635	100.226	ug/l	99
26) 2,2-Dichloropropane	7.482	77	66230	19.517	ug/l	97
27) cis-1,2-Dichloroethene	7.482	96	45307	19.953	ug/l	99
28) Bromochloromethane	7.806	49	27564	20.092	ug/l	99
29) Tetrahydrofuran	7.835	42	71566	100.618	ug/l	99
30) Chloroform	7.953	83	74495	19.270	ug/l	94
31) Cyclohexane	8.247	56	63521	19.852	ug/l	96
32) 1,1,1-Trichloroethane	8.159	97	68908	19.725	ug/l	97
36) 1,1-Dichloropropene	8.365	75	51535	19.888	ug/l	98
37) Ethyl Acetate	7.559	43	48436	20.561	ug/l	99
38) Carbon Tetrachloride	8.359	117	61594	20.593	ug/l	97
39) Methylcyclohexane	9.600	83	55102	20.464	ug/l	98
40) Benzene	8.600	78	163727	19.977	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085007.D
Acq On : 22 Nov 2024 12:10
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Quant Time: Nov 23 01:59:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 2024
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.777	41	26011	19.942 ug/l	99
42) 1,2-Dichloroethane	8.665	62	56374	20.106 ug/l	99
43) Isopropyl Acetate	8.682	43	88647	18.116 ug/l	98
44) Trichloroethene	9.347	130	38334	20.127 ug/l	96
45) 1,2-Dichloropropane	9.618	63	39852	19.742 ug/l	96
46) Dibromomethane	9.706	93	28140	20.062 ug/l	98
47) Bromodichloromethane	9.882	83	59008	19.849 ug/l	97
48) Methyl methacrylate	9.676	41	36687	20.148 ug/l	98
49) 1,4-Dioxane	9.694	88	12977	410.958 ug/l #	89
51) 4-Methyl-2-Pentanone	10.441	43	230239	103.015 ug/l	99
52) Toluene	10.629	92	100021	20.615 ug/l	99
53) t-1,3-Dichloropropene	10.829	75	61215	20.539 ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	64823	20.501 ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	36732	20.326 ug/l	96
56) Ethyl methacrylate	10.871	69	55691	21.089 ug/l	98
57) 1,3-Dichloropropane	11.159	76	63314	19.906 ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	137602	106.227 ug/l	100
59) 2-Hexanone	11.194	43	179717	107.514 ug/l	99
60) Dibromochloromethane	11.353	129	44450	20.126 ug/l	97
61) 1,2-Dibromoethane	11.465	107	37228	19.905 ug/l	99
64) Tetrachloroethene	11.100	164	32716	20.155 ug/l	93
65) Chlorobenzene	11.888	112	108255	19.815 ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	37404	19.446 ug/l	98
67) Ethyl Benzene	11.959	91	181169	20.440 ug/l	98
68) m/p-Xylenes	12.070	106	141133	41.824 ug/l	99
69) o-Xylene	12.394	106	66013	20.565 ug/l	97
70) Styrene	12.406	104	113503	21.263 ug/l	99
71) Bromoform	12.576	173	28783	20.159 ug/l #	98
73) Isopropylbenzene	12.694	105	168631	20.438 ug/l	100
74) N-amyl acetate	12.494	43	72208	21.238 ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	53889	19.127 ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	43650m	19.951 ug/l	
77) Bromobenzene	12.976	156	43298	19.500 ug/l	99
78) n-propylbenzene	13.035	91	196551	20.653 ug/l	99
79) 2-Chlorotoluene	13.123	91	128714	20.261 ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	145726	21.048 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	18860	20.144 ug/l	99
82) 4-Chlorotoluene	13.217	91	133131	20.131 ug/l	99
83) tert-Butylbenzene	13.435	119	121188	20.344 ug/l	99
84) 1,2,4-Trimethylbenzene	13.476	105	149479	20.974 ug/l	99
85) sec-Butylbenzene	13.611	105	168068	20.885 ug/l	100
86) p-Isopropyltoluene	13.729	119	143841	21.653 ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	83500	19.066 ug/l	99
88) 1,4-Dichlorobenzene	13.811	146	85098	19.041 ug/l	99
89) n-Butylbenzene	14.053	91	122257	19.790 ug/l	100
90) Hexachloroethane	14.329	117	27899	19.267 ug/l	97
91) 1,2-Dichlorobenzene	14.106	146	82164	19.579 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	10633	19.517 ug/l	96
93) 1,2,4-Trichlorobenzene	15.388	180	44383	19.467 ug/l	98
94) Hexachlorobutadiene	15.500	225	20642	19.618 ug/l	95
95) Naphthalene	15.641	128	132816	20.454 ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	44145	20.293 ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085007.D
Acq On : 22 Nov 2024 12:10
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

Quant Time: Nov 23 01:59:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 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

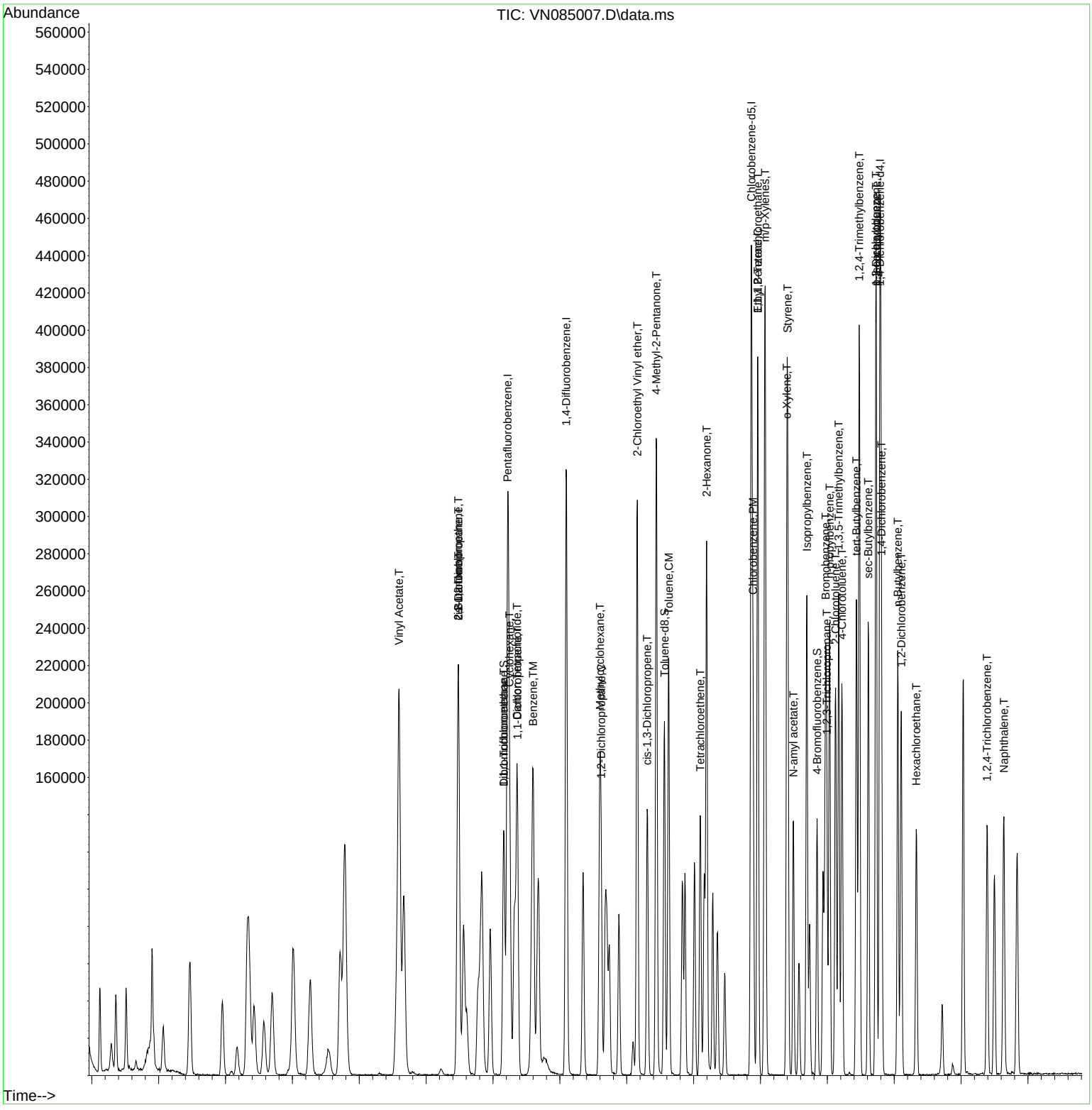
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085007.D
Acq On : 22 Nov 2024 12:10
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 23 01:59:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085008.D
Acq On : 22 Nov 2024 12:34
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 23 02:00:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	161407	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	278264	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	234609	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	110358	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	23734	10.323	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 20.640%#			
35) Dibromofluoromethane	8.159	113	18392	9.801	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 19.600%#			
50) Toluene-d8	10.559	98	64656	9.614	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 19.220%#			
62) 4-Bromofluorobenzene	12.847	95	24371	9.691	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 19.380%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	17355	9.509	ug/l	98
3) Chloromethane	2.359	50	19463	9.194	ug/l	93
4) Vinyl Chloride	2.512	62	18378	9.661	ug/l	99
5) Bromomethane	2.901	94	10681	10.017	ug/l	99
6) Chloroethane	3.077	64	12602	9.828	ug/l #	88
7) Trichlorofluoromethane	3.477	101	30566	9.445	ug/l	98
8) Diethyl Ether	3.953	74	10394	9.437	ug/l	89
9) 1,1,2-Trichlorotrifluo...	4.353	101	17791	9.693	ug/l	98
10) Methyl Iodide	4.583	142	22722	9.353	ug/l	95
11) Tert butyl alcohol	5.542	59	15491	50.421	ug/l #	81
12) 1,1-Dichloroethene	4.324	96	16330	9.532	ug/l	93
13) Acrolein	4.183	56	10601	51.710	ug/l	99
14) Allyl chloride	5.006	41	28006	9.697	ug/l	97
15) Acrylonitrile	5.718	53	40469	46.525	ug/l	98
16) Acetone	4.430	43	32743	48.900	ug/l	99
17) Carbon Disulfide	4.700	76	47181	9.331	ug/l #	93
18) Methyl Acetate	5.018	43	23065	9.856	ug/l	100
19) Methyl tert-butyl Ether	5.795	73	53672	9.589	ug/l	96
20) Methylene Chloride	5.271	84	19680	9.632	ug/l	93
21) trans-1,2-Dichloroethene	5.777	96	16759	9.296	ug/l	92
22) Diisopropyl ether	6.665	45	56475	9.716	ug/l	99
23) Vinyl Acetate	6.594	43	192330	47.962	ug/l	100
24) 1,1-Dichloroethane	6.559	63	33350	9.588	ug/l #	92
25) 2-Butanone	7.477	43	51223	46.790	ug/l	95
26) 2,2-Dichloropropane	7.477	77	30494	9.388	ug/l	98
27) cis-1,2-Dichloroethene	7.477	96	20469	9.418	ug/l	99
28) Bromochloromethane	7.806	49	12594	9.591	ug/l	95
29) Tetrahydrofuran	7.841	42	32197	47.294	ug/l	99
30) Chloroform	7.959	83	34651	9.365	ug/l	98
31) Cyclohexane	8.253	56	29526	9.641	ug/l	95
32) 1,1,1-Trichloroethane	8.165	97	32054	9.587	ug/l	98
36) 1,1-Dichloropropene	8.371	75	23205	9.130	ug/l	99
37) Ethyl Acetate	7.559	43	22487	9.732	ug/l #	97
38) Carbon Tetrachloride	8.353	117	26952	9.186	ug/l	97
39) Methylcyclohexane	9.594	83	23924	9.058	ug/l	96
40) Benzene	8.600	78	75597	9.404	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085008.D
Acq On : 22 Nov 2024 12:34
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 23 02:00:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.771	41	12417	9.705 ug/l	99
42) 1,2-Dichloroethane	8.659	62	25169	9.152 ug/l	100
43) Isopropyl Acetate	8.688	43	43717	9.108 ug/l	95
44) Trichloroethene	9.347	130	17835	9.547 ug/l	90
45) 1,2-Dichloropropane	9.618	63	18902	9.546 ug/l	98
46) Dibromomethane	9.706	93	12540	9.114 ug/l	96
47) Bromodichloromethane	9.888	83	27136	9.306 ug/l	95
48) Methyl methacrylate	9.677	41	16793	9.402 ug/l	95
49) 1,4-Dioxane	9.694	88	6366	205.527 ug/l #	90
51) 4-Methyl-2-Pentanone	10.441	43	106422	48.544 ug/l	100
52) Toluene	10.630	92	44072	9.261 ug/l	95
53) t-1,3-Dichloropropene	10.835	75	27040	9.249 ug/l	98
54) cis-1,3-Dichloropropene	10.306	75	28183	9.087 ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	17498	9.871 ug/l	98
56) Ethyl methacrylate	10.871	69	24309	9.385 ug/l	99
57) 1,3-Dichloropropane	11.159	76	29257	9.378 ug/l	99
58) 2-Chloroethyl Vinyl ether	10.153	63	61252	48.207 ug/l	97
59) 2-Hexanone	11.194	43	77951	47.542 ug/l	98
60) Dibromochloromethane	11.353	129	19478	8.991 ug/l	97
61) 1,2-Dibromoethane	11.465	107	17673	9.633 ug/l	95
64) Tetrachloroethene	11.100	164	15092	9.547 ug/l	94
65) Chlorobenzene	11.888	112	51106	9.605 ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.959	131	17966	9.590 ug/l	98
67) Ethyl Benzene	11.959	91	79668	9.229 ug/l	95
68) m/p-Xylenes	12.071	106	62195	18.925 ug/l	98
69) o-Xylene	12.394	106	30067	9.618 ug/l	95
70) Styrene	12.412	104	50150	9.647 ug/l	99
71) Bromoform	12.576	173	12832	9.228 ug/l #	96
73) Isopropylbenzene	12.694	105	75080	9.644 ug/l	98
74) N-amyl acetate	12.488	43	29811	9.292 ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.935	83	25341	9.532 ug/l	98
76) 1,2,3-Trichloropropane	12.988	75	16940m	8.206 ug/l	
77) Bromobenzene	12.976	156	19904	9.500 ug/l	99
78) n-propylbenzene	13.035	91	85642	9.537 ug/l	98
79) 2-Chlorotoluene	13.123	91	58233	9.715 ug/l	98
80) 1,3,5-Trimethylbenzene	13.171	105	63212	9.676 ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	8603	9.738 ug/l	99
82) 4-Chlorotoluene	13.218	91	60156	9.640 ug/l	100
83) tert-Butylbenzene	13.435	119	53773	9.566 ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	64606	9.607 ug/l	99
85) sec-Butylbenzene	13.618	105	72405	9.535 ug/l	99
86) p-Isopropyltoluene	13.729	119	60467	9.647 ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	38501	9.317 ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	39471	9.360 ug/l	99
89) n-Butylbenzene	14.059	91	52430	8.994 ug/l	100
90) Hexachloroethane	14.335	117	12541	9.179 ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	37183	9.390 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	4917	9.565 ug/l	99
93) 1,2,4-Trichlorobenzene	15.394	180	20285	9.429 ug/l	97
94) Hexachlorobutadiene	15.500	225	9015	9.080 ug/l	98
95) Naphthalene	15.641	128	54191	8.844 ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	18745	9.132 ug/l	98

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085008.D
Acq On : 22 Nov 2024 12:34
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

Quant Time: Nov 23 02:00:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 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

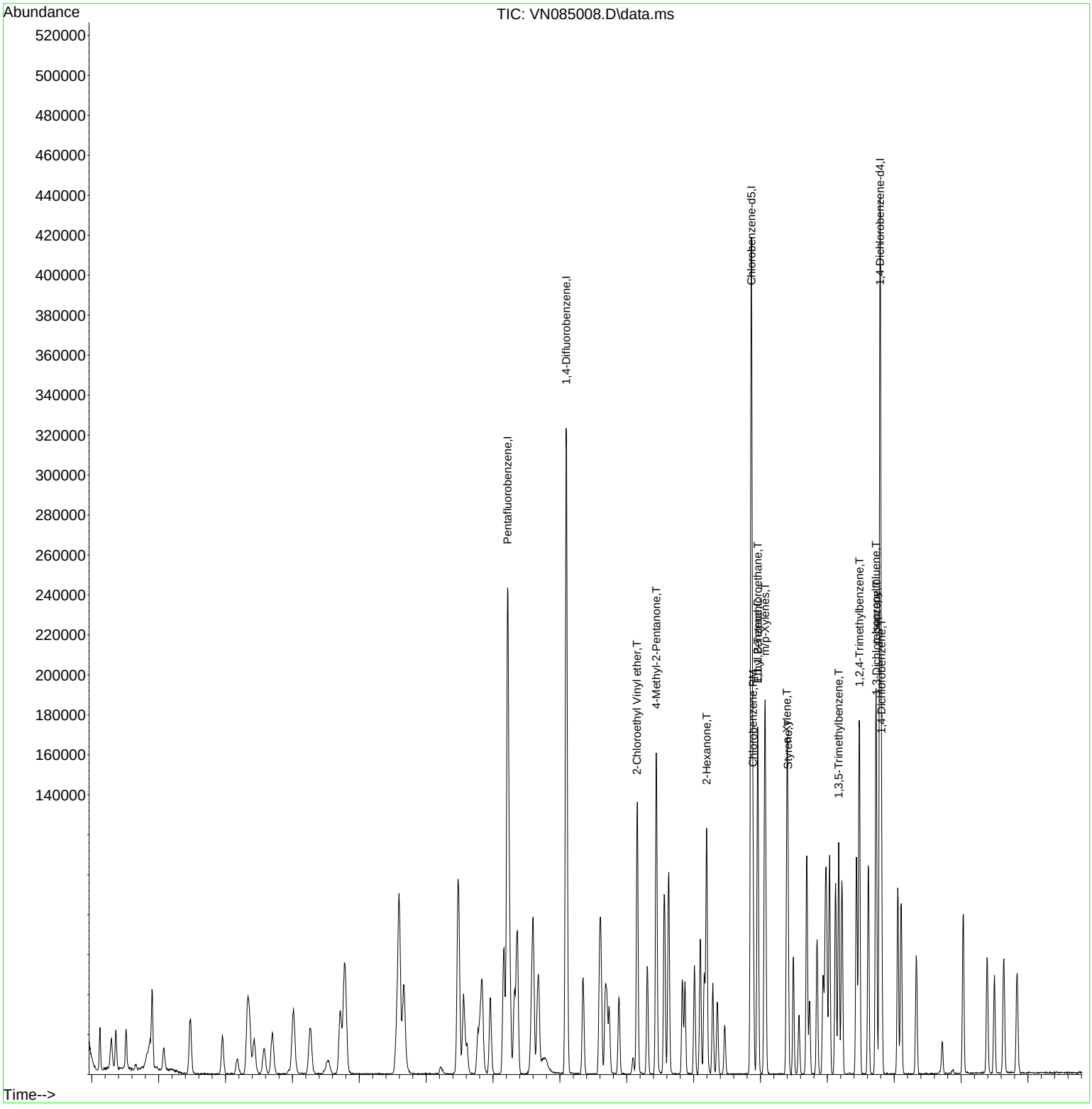
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085008.D
Acq On : 22 Nov 2024 12:34
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 23 02:00:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085009.D
Acq On : 22 Nov 2024 12:57
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 23 02:01:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.218	168	165285	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.094	114	280025	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.864	117	235767	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	108389	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.571	65	11977	5.087	ug/l		0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 10.180%#				
35) Dibromofluoromethane	8.159	113	9597	5.082	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 10.160%#				
50) Toluene-d8	10.559	98	32318	4.775	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 9.560%#				
62) 4-Bromofluorobenzene	12.847	95	12715	5.024	ug/l		0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 10.040%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	9758	5.221	ug/l		91
3) Chloromethane	2.359	50	10967	5.059	ug/l		97
4) Vinyl Chloride	2.512	62	10043	5.155	ug/l		92
5) Bromomethane	2.900	94	6052	5.543	ug/l		98
6) Chloroethane	3.059	64	6721	5.119	ug/l		93
7) Trichlorofluoromethane	3.465	101	17204	5.192	ug/l		98
8) Diethyl Ether	3.947	74	5696	5.050	ug/l		95
9) 1,1,2-Trichlorotrifluo...	4.353	101	9518	5.064	ug/l		98
10) Methyl Iodide	4.577	142	12631	5.077	ug/l		96
11) Tert butyl alcohol	5.541	59	9684	30.780	ug/l	#	89
12) 1,1-Dichloroethene	4.318	96	8977	5.117	ug/l	#	92
13) Acrolein	4.177	56	4745	22.602	ug/l		95
14) Allyl chloride	5.006	41	14439	4.882	ug/l		97
15) Acrylonitrile	5.712	53	22627	25.403	ug/l		96
16) Acetone	4.430	43	16131	23.525	ug/l		93
17) Carbon Disulfide	4.694	76	26272	5.074	ug/l	#	87
18) Methyl Acetate	5.018	43	14139	5.429	ug/l		98
19) Methyl tert-butyl Ether	5.800	73	27679	4.829	ug/l		95
20) Methylene Chloride	5.271	84	10410	4.975	ug/l	#	88
21) trans-1,2-Dichloroethene	5.765	96	9388	5.085	ug/l		99
22) Diisopropyl ether	6.659	45	30018	5.043	ug/l		97
23) Vinyl Acetate	6.594	43	97507	23.745	ug/l		96
24) 1,1-Dichloroethane	6.559	63	18044	5.066	ug/l		97
25) 2-Butanone	7.482	43	27100	24.174	ug/l		98
26) 2,2-Dichloropropane	7.482	77	16525	4.968	ug/l		99
27) cis-1,2-Dichloroethene	7.482	96	11250	5.055	ug/l		96
28) Bromochloromethane	7.806	49	6592	4.903	ug/l	#	98
29) Tetrahydrofuran	7.841	42	17501	25.104	ug/l		99
30) Chloroform	7.959	83	18837	4.971	ug/l		91
31) Cyclohexane	8.247	56	18036	5.751	ug/l		97
32) 1,1,1-Trichloroethane	8.165	97	16611	4.851	ug/l		97
36) 1,1-Dichloropropene	8.371	75	13147	5.140	ug/l		98
37) Ethyl Acetate	7.553	43	11891	5.114	ug/l	#	79
38) Carbon Tetrachloride	8.359	117	14827	5.022	ug/l		96
39) Methylcyclohexane	9.594	83	13143	4.945	ug/l		95
40) Benzene	8.600	78	40657	5.026	ug/l		96

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085009.D
Acq On : 22 Nov 2024 12:57
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 23 02:01:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.782	41	5687	4.417 ug/l	93
42) 1,2-Dichloroethane	8.671	62	14824	5.356 ug/l	99
43) Isopropyl Acetate	8.688	43	23894	4.947 ug/l	95
44) Trichloroethene	9.347	130	9711	5.165 ug/l	100
45) 1,2-Dichloropropane	9.618	63	9859	4.948 ug/l	99
46) Dibromomethane	9.706	93	6962	5.028 ug/l	98
47) Bromodichloromethane	9.888	83	14562	4.962 ug/l #	96
48) Methyl methacrylate	9.676	41	8840	4.918 ug/l	94
49) 1,4-Dioxane	9.694	88	2953	94.738 ug/l #	83
51) 4-Methyl-2-Pentanone	10.441	43	55176	25.010 ug/l	100
52) Toluene	10.629	92	24051	5.022 ug/l	98
53) t-1,3-Dichloropropene	10.835	75	13412	4.559 ug/l	91
54) cis-1,3-Dichloropropene	10.312	75	14917	4.779 ug/l	95
55) 1,1,2-Trichloroethane	11.017	97	8791	4.928 ug/l	96
56) Ethyl methacrylate	10.876	69	12004	4.605 ug/l	93
57) 1,3-Dichloropropane	11.159	76	15736	5.012 ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	27177	21.254 ug/l	100
59) 2-Hexanone	11.194	43	41641	25.237 ug/l	95
60) Dibromochloromethane	11.359	129	10844	4.974 ug/l	98
61) 1,2-Dibromoethane	11.465	107	9468	5.128 ug/l	96
64) Tetrachloroethene	11.100	164	8826	5.556 ug/l	89
65) Chlorobenzene	11.888	112	26717	4.997 ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	9904	5.261 ug/l	96
67) Ethyl Benzene	11.959	91	42642	4.916 ug/l	96
68) m/p-Xylenes	12.070	106	31421	9.514 ug/l	99
69) o-Xylene	12.400	106	14935	4.754 ug/l	98
70) Styrene	12.412	104	24480	4.686 ug/l	99
71) Bromoform	12.576	173	7040	5.038 ug/l #	100
73) Isopropylbenzene	12.694	105	37544	4.910 ug/l	97
74) N-amyl acetate	12.494	43	14995	4.759 ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.941	83	13341	5.109 ug/l	98
76) 1,2,3-Trichloropropane	12.988	75	8907m	4.393 ug/l	
77) Bromobenzene	12.976	156	10485	5.095 ug/l	94
78) n-propylbenzene	13.035	91	43493	4.931 ug/l	99
79) 2-Chlorotoluene	13.123	91	29037	4.932 ug/l	97
80) 1,3,5-Trimethylbenzene	13.170	105	30809	4.802 ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	4774	5.502 ug/l #	88
82) 4-Chlorotoluene	13.217	91	30558	4.986 ug/l	97
83) tert-Butylbenzene	13.435	119	26485	4.797 ug/l	99
84) 1,2,4-Trimethylbenzene	13.476	105	31328	4.743 ug/l	98
85) sec-Butylbenzene	13.611	105	35183	4.718 ug/l	99
86) p-Isopropyltoluene	13.729	119	28019	4.551 ug/l	98
87) 1,3-Dichlorobenzene	13.735	146	21043	5.185 ug/l	96
88) 1,4-Dichlorobenzene	13.806	146	22041	5.322 ug/l	93
89) n-Butylbenzene	14.053	91	27093	4.732 ug/l	99
90) Hexachloroethane	14.329	117	6869	5.119 ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	19670	5.058 ug/l	96
92) 1,2-Dibromo-3-Chloropr...	14.711	75	2703	5.353 ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	10547	4.992 ug/l	98
94) Hexachlorobutadiene	15.494	225	5141	5.272 ug/l	96
95) Naphthalene	15.641	128	29077	4.832 ug/l	97
96) 1,2,3-Trichlorobenzene	15.835	180	10042	4.981 ug/l	94

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085009.D
Acq On : 22 Nov 2024 12:57
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

Quant Time: Nov 23 02:01:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 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

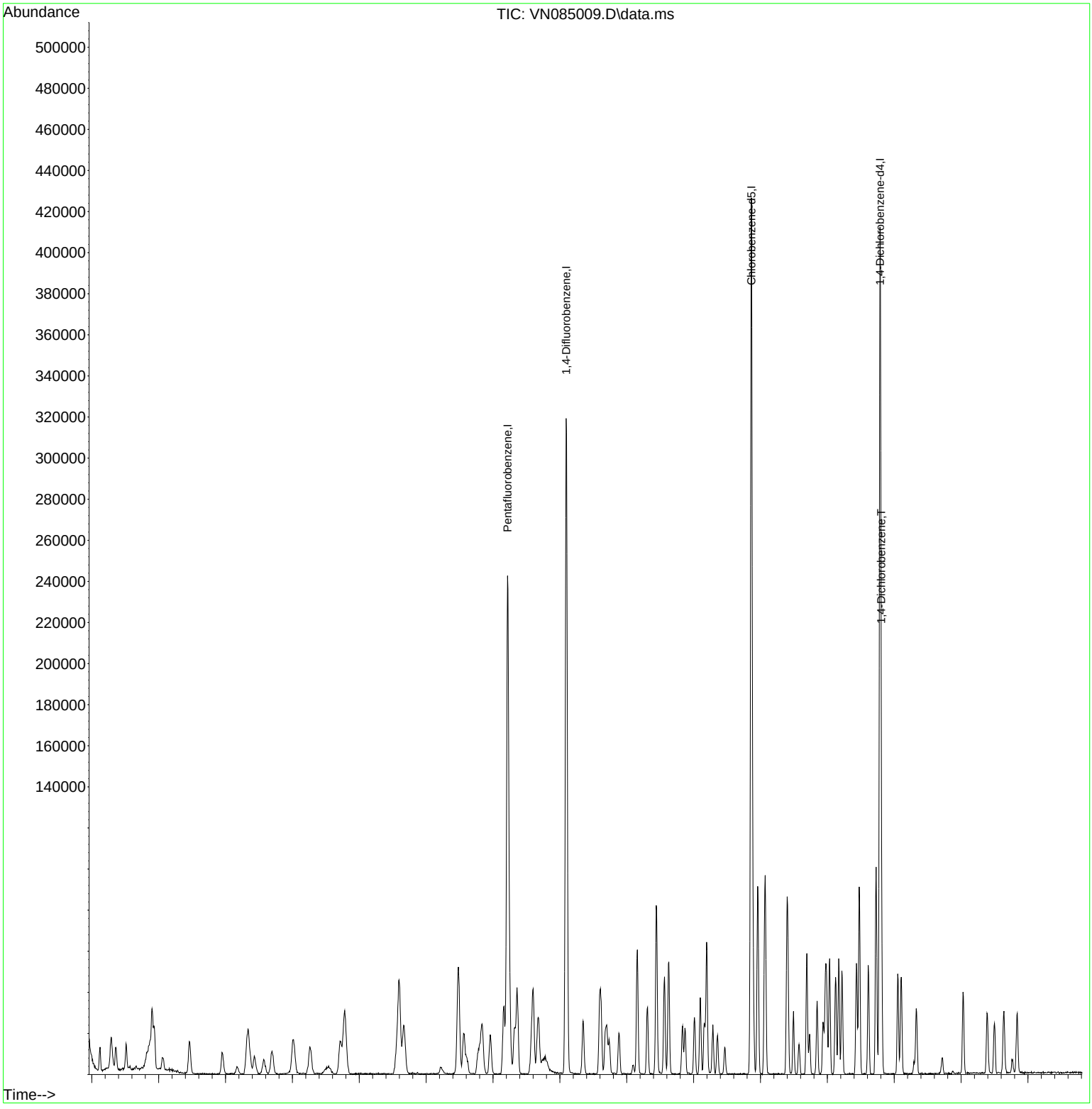
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085009.D
Acq On : 22 Nov 2024 12:57
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 23 02:01:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085010.D
Acq On : 22 Nov 2024 13:45
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 23 02:01:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.218	168	142307	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.100	114	255159	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.865	117	210265	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	88784	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	1589	0.987	ug/l		91
3) Chloromethane	2.359	50	2580	1.382	ug/l	#	86
4) Vinyl Chloride	2.518	62	1730	1.031	ug/l	#	81
6) Chloroethane	3.077	64	1303m	1.153	ug/l		
7) Trichlorofluoromethane	3.453	101	2950	1.034	ug/l		99
8) Diethyl Ether	3.953	74	898	0.925	ug/l		90
9) 1,1,2-Trichlorotrifluo...	4.365	101	1632m	1.009	ug/l		
12) 1,1-Dichloroethene	4.324	96	1511	1.000	ug/l	#	61
14) Allyl chloride	5.012	41	2663	1.046	ug/l		98
15) Acrylonitrile	5.718	53	4314	5.625	ug/l	#	75
16) Acetone	4.442	43	2973	5.036	ug/l	#	69
17) Carbon Disulfide	4.694	76	5206	1.168	ug/l	#	84
18) Methyl Acetate	5.030	43	3542m	0.747	ug/l		
19) Methyl tert-butyl Ether	5.789	73	4765m	0.966	ug/l		
20) Methylene Chloride	5.271	84	2130m	1.182	ug/l		
21) trans-1,2-Dichloroethene	5.783	96	1624	1.022	ug/l		95
22) Diisopropyl ether	6.665	45	5194	1.014	ug/l		96
23) Vinyl Acetate	6.600	43	16519	4.672	ug/l		99
24) 1,1-Dichloroethane	6.559	63	3177	1.036	ug/l	#	83
25) 2-Butanone	7.477	43	5363	5.556	ug/l	#	89
26) 2,2-Dichloropropane	7.494	77	3083	1.077	ug/l		86
27) cis-1,2-Dichloroethene	7.477	96	2074	1.082	ug/l		88
28) Bromochloromethane	7.806	49	1248	1.078	ug/l	#	94
29) Tetrahydrofuran	7.835	42	3038	5.061	ug/l		90
30) Chloroform	7.959	83	3824	1.172	ug/l		97
32) 1,1,1-Trichloroethane	8.165	97	3231	1.096	ug/l	#	48
36) 1,1-Dichloropropene	8.365	75	2304	0.989	ug/l	#	87
37) Ethyl Acetate	7.547	43	2101	0.992	ug/l	#	67
38) Carbon Tetrachloride	8.359	117	2554	0.949	ug/l		92
39) Methylcyclohexane	9.600	83	1948	0.804	ug/l		89
40) Benzene	8.600	78	7459	1.012	ug/l	#	83
41) Methacrylonitrile	7.777	41	1263	1.077	ug/l	#	70
42) 1,2-Dichloroethane	8.671	62	2512	0.996	ug/l		81
43) Isopropyl Acetate	8.688	43	5905m	1.342	ug/l		
44) Trichloroethene	9.347	130	1685	0.984	ug/l		74
45) 1,2-Dichloropropane	9.618	63	1911	1.053	ug/l		97

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085010.D
Acq On : 22 Nov 2024 13:45
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

Quant Time: Nov 23 02:01:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
46) Dibromomethane	9.706	93	1327	1.052 ug/l	100
47) Bromodichloromethane	9.894	83	2757	1.031 ug/l #	72
48) Methyl methacrylate	9.682	41	1550	0.946 ug/l	91
49) 1,4-Dioxane	9.700	88	553	19.470 ug/l #	54
51) 4-Methyl-2-Pentanone	10.441	43	9203	4.578 ug/l	93
52) Toluene	10.624	92	3979	0.912 ug/l	92
53) t-1,3-Dichloropropene	10.829	75	2680	1.000 ug/l	89
54) cis-1,3-Dichloropropene	10.312	75	2759	0.970 ug/l	94
55) 1,1,2-Trichloroethane	11.012	97	1536	0.945 ug/l #	79
56) Ethyl methacrylate	10.876	69	1888	0.795 ug/l	97
57) 1,3-Dichloropropane	11.165	76	2917	1.020 ug/l	97
58) 2-Chloroethyl Vinyl ether	10.159	63	4254	3.651 ug/l	98
59) 2-Hexanone	11.200	43	6264	4.166 ug/l	90
60) Dibromochloromethane	11.359	129	2099	1.057 ug/l	93
61) 1,2-Dibromoethane	11.465	107	1648	0.980 ug/l	98
64) Tetrachloroethene	11.100	164	1291	0.911 ug/l #	88
65) Chlorobenzene	11.888	112	5217	1.094 ug/l #	81
66) 1,1,1,2-Tetrachloroethane	11.965	131	1639	0.976 ug/l #	62
67) Ethyl Benzene	11.959	91	6914	0.894 ug/l #	85
68) m/p-Xylenes	12.070	106	5269	1.789 ug/l	91
69) o-Xylene	12.400	106	2514	0.897 ug/l	82
70) Styrene	12.406	104	3871	0.831 ug/l	99
71) Bromoform	12.576	173	1215	0.975 ug/l #	92
73) Isopropylbenzene	12.688	105	5637	0.900 ug/l	99
74) N-amyl acetate	12.494	43	2377	0.921 ug/l #	90
75) 1,1,2,2-Tetrachloroethane	12.929	83	2694	1.260 ug/l #	82
76) 1,2,3-Trichloropropane	12.988	75	1816m	1.093 ug/l	
77) Bromobenzene	12.982	156	1903	1.129 ug/l	86
78) n-propylbenzene	13.029	91	6275	0.869 ug/l	97
79) 2-Chlorotoluene	13.123	91	4935	1.023 ug/l	94
80) 1,3,5-Trimethylbenzene	13.170	105	4473	0.851 ug/l	98
82) 4-Chlorotoluene	13.223	91	5286	1.053 ug/l	92
83) tert-Butylbenzene	13.435	119	4357	0.963 ug/l	91
84) 1,2,4-Trimethylbenzene	13.482	105	4802	0.888 ug/l	100
85) sec-Butylbenzene	13.612	105	5284	0.865 ug/l	99
86) p-Isopropyltoluene	13.729	119	4047	0.803 ug/l	88
87) 1,3-Dichlorobenzene	13.729	146	4131	1.243 ug/l	86
88) 1,4-Dichlorobenzene	13.806	146	4149m	1.223 ug/l	
89) n-Butylbenzene	14.053	91	4981	1.062 ug/l	92
90) Hexachloroethane	14.329	117	1217	1.107 ug/l #	52
91) 1,2-Dichlorobenzene	14.100	146	3830	1.202 ug/l	96
92) 1,2-Dibromo-3-Chloropr...	14.723	75	470	1.136 ug/l	98
93) 1,2,4-Trichlorobenzene	15.400	180	2092	1.209 ug/l	93
94) Hexachlorobutadiene	15.494	225	987	1.236 ug/l	80
95) Naphthalene	15.641	128	5242	1.063 ug/l	98
96) 1,2,3-Trichlorobenzene	15.835	180	1849	1.120 ug/l	94

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

ICAL Form

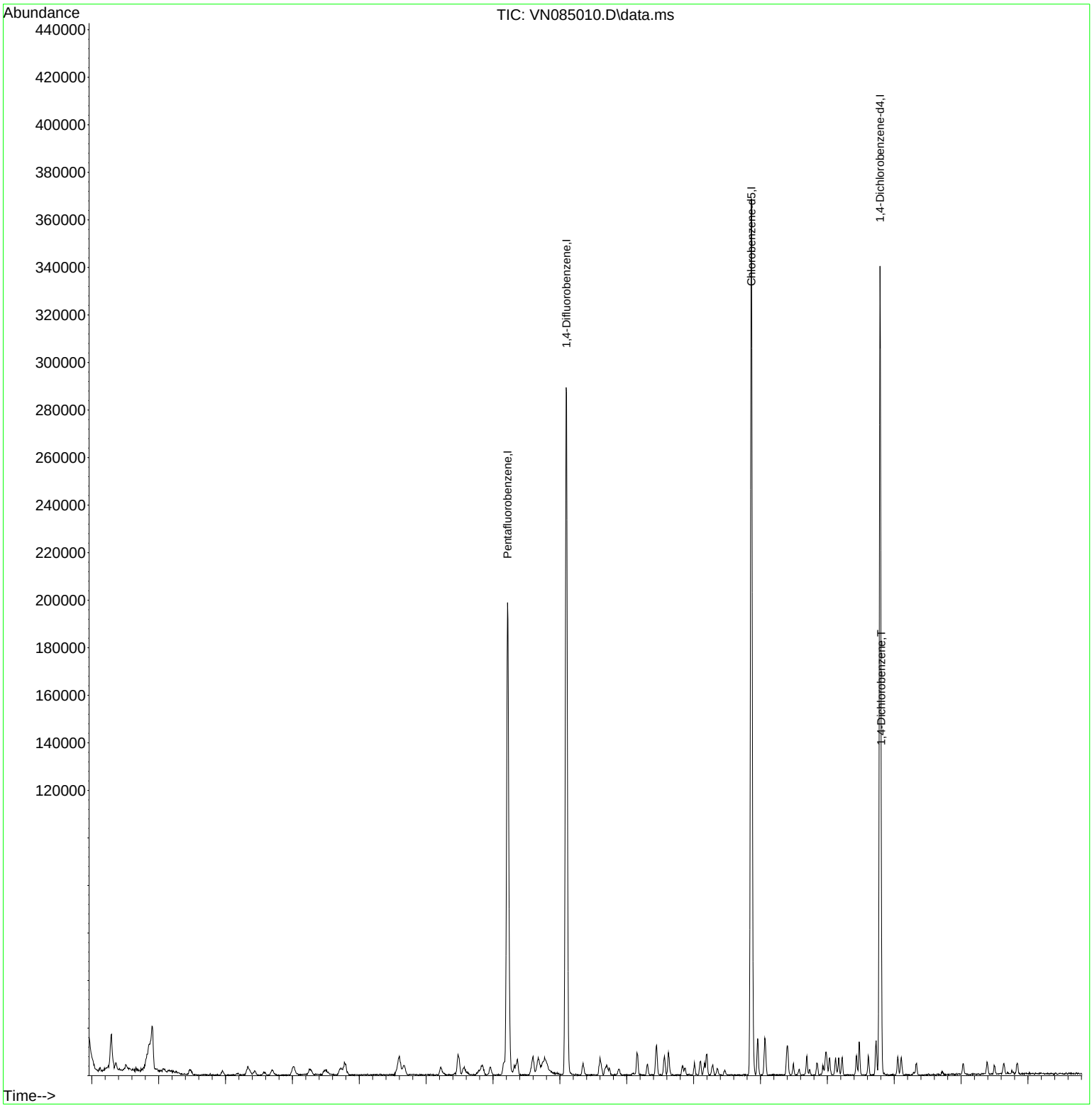
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085010.D
Acq On : 22 Nov 2024 13:45
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 23 02:01:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 01:56:57 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085012.D
Acq On : 22 Nov 2024 16:07
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN112224

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

Quant Time: Nov 23 02:57:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	8.218	168	180278	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	293712	50.000 ug/l	0.00
63) Chlorobenzene-d5	11.865	117	254182	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	128770	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	8.571	65	129855	50.568 ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.140%		
35) Dibromofluoromethane	8.159	113	102148	51.572 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.140%		
50) Toluene-d8	10.559	98	379679	53.488 ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.980%		
62) 4-Bromofluorobenzene	12.847	95	141423	53.276 ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.560%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.118	85	95019	46.612 ug/l	99
3) Chloromethane	2.359	50	99689	42.164 ug/l	98
4) Vinyl Chloride	2.512	62	97145	45.721 ug/l	95
5) Bromomethane	2.900	94	53525	44.945 ug/l	91
6) Chloroethane	3.077	64	59473	41.527 ug/l	94
7) Trichlorofluoromethane	3.477	101	165959	45.916 ug/l	94
8) Diethyl Ether	3.953	74	58978	47.942 ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.359	101	93701	45.709 ug/l	99
10) Methyl Iodide	4.577	142	127705	47.063 ug/l	97
11) Tert butyl alcohol	5.536	59	74416	216.857 ug/l	97
12) 1,1-Dichloroethene	4.330	96	89314	46.677 ug/l	97
13) Acrolein	4.171	56	58781	256.710 ug/l	99
14) Allyl chloride	5.012	41	152182	47.178 ug/l	99
15) Acrylonitrile	5.712	53	225423	232.029 ug/l	99
16) Acetone	4.424	43	188963	252.665 ug/l	99
17) Carbon Disulfide	4.700	76	244899	43.362 ug/l #	94
18) Methyl Acetate	5.018	43	111346	46.500 ug/l	99
19) Methyl tert-butyl Ether	5.789	73	303857	48.602 ug/l	98
20) Methylene Chloride	5.271	84	98339	43.090 ug/l	96
21) trans-1,2-Dichloroethene	5.777	96	92234	45.805 ug/l #	89
22) Diisopropyl ether	6.665	45	306957	47.281 ug/l	98
23) Vinyl Acetate	6.594	43	1108786	247.560 ug/l	100
24) 1,1-Dichloroethane	6.559	63	177343	45.647 ug/l	99
25) 2-Butanone	7.477	43	294434	240.802 ug/l	100
26) 2,2-Dichloropropane	7.488	77	168144	46.349 ug/l	98
27) cis-1,2-Dichloroethene	7.477	96	110716	45.609 ug/l	97
28) Bromochloromethane	7.812	49	67335	45.913 ug/l	97
29) Tetrahydrofuran	7.835	42	183433	241.241 ug/l	100
30) Chloroform	7.959	83	188550	45.623 ug/l	95
31) Cyclohexane	8.253	56	157639	46.084 ug/l	97
32) 1,1,1-Trichloroethane	8.159	97	170723	45.714 ug/l	99
36) 1,1-Dichloropropene	8.365	75	129026	48.093 ug/l	99
37) Ethyl Acetate	7.553	43	113781	46.651 ug/l	100
38) Carbon Tetrachloride	8.359	117	151265	48.846 ug/l	98
39) Methylcyclohexane	9.594	83	145286	52.114 ug/l	98
40) Benzene	8.600	78	404536	47.675 ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085012.D
Acq On : 22 Nov 2024 16:07
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 23 02:57:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN112224

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.771	41	66590	49.311 ug/l	98
42) 1,2-Dichloroethane	8.665	62	136508	47.025 ug/l	100
43) Isopropyl Acetate	8.688	43	210623	41.574 ug/l	99
44) Trichloroethene	9.347	130	93086	47.205 ug/l	98
45) 1,2-Dichloropropane	9.618	63	98380	47.073 ug/l	95
46) Dibromomethane	9.706	93	69575	47.909 ug/l	99
47) Bromodichloromethane	9.882	83	146603	47.631 ug/l	97
48) Methyl methacrylate	9.676	41	95959	50.900 ug/l	97
49) 1,4-Dioxane	9.694	88	31078	950.585 ug/l #	87
51) 4-Methyl-2-Pentanone	10.441	43	582480	251.720 ug/l	100
52) Toluene	10.629	92	249568	49.682 ug/l	99
53) t-1,3-Dichloropropene	10.829	75	150836	48.881 ug/l	97
54) cis-1,3-Dichloropropene	10.306	75	164009	50.100 ug/l	97
55) 1,1,2-Trichloroethane	11.012	97	92219	49.287 ug/l	99
56) Ethyl methacrylate	10.871	69	149537	54.694 ug/l	98
57) 1,3-Dichloropropane	11.159	76	158000	47.980 ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	315602	235.323 ug/l	99
59) 2-Hexanone	11.194	43	444749	256.983 ug/l	100
60) Dibromochloromethane	11.359	129	108961	47.650 ug/l	99
61) 1,2-Dibromoethane	11.465	107	94657	48.883 ug/l	96
64) Tetrachloroethene	11.100	164	82753	48.316 ug/l	97
65) Chlorobenzene	11.888	112	264798	45.936 ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	95374	46.991 ug/l	98
67) Ethyl Benzene	11.959	91	477400	51.046 ug/l	96
68) m/p-Xylenes	12.065	106	363006	101.951 ug/l	99
69) o-Xylene	12.394	106	173028	51.086 ug/l	98
70) Styrene	12.406	104	296759	52.687 ug/l	99
71) Bromoform	12.576	173	73244	48.617 ug/l #	98
73) Isopropylbenzene	12.694	105	445261	49.014 ug/l	100
74) N-amyl acetate	12.494	43	184990	49.418 ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	132755	42.796 ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	105927m	45.225 ug/l	
77) Bromobenzene	12.976	156	108566	44.410 ug/l	99
78) n-propylbenzene	13.035	91	525567	50.160 ug/l	98
79) 2-Chlorotoluene	13.123	91	324611	46.409 ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	382819	50.220 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	49617	46.764 ug/l	98
82) 4-Chlorotoluene	13.217	91	331271	45.496 ug/l	99
83) tert-Butylbenzene	13.435	119	320979	48.939 ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	392031	49.962 ug/l	99
85) sec-Butylbenzene	13.612	105	444471	50.166 ug/l	99
86) p-Isopropyltoluene	13.729	119	378270	51.719 ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	204731	42.459 ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	202930	41.240 ug/l	97
89) n-Butylbenzene	14.053	91	325752	47.892 ug/l	100
90) Hexachloroethane	14.335	117	72271	45.332 ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	200864	43.472 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	26503	44.183 ug/l	99
93) 1,2,4-Trichlorobenzene	15.394	180	107707	42.908 ug/l	99
94) Hexachlorobutadiene	15.500	225	49330	42.581 ug/l	99
95) Naphthalene	15.641	128	329352	46.067 ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	102829	42.932 ug/l	97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085012.D
Acq On : 22 Nov 2024 16:07
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN112224

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024

Quant Time: Nov 23 02:57:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 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\VN112224\
Data File : VN085012.D
Acq On : 22 Nov 2024 16:07
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ALS Vial : 11 Sample Multiplier: 1

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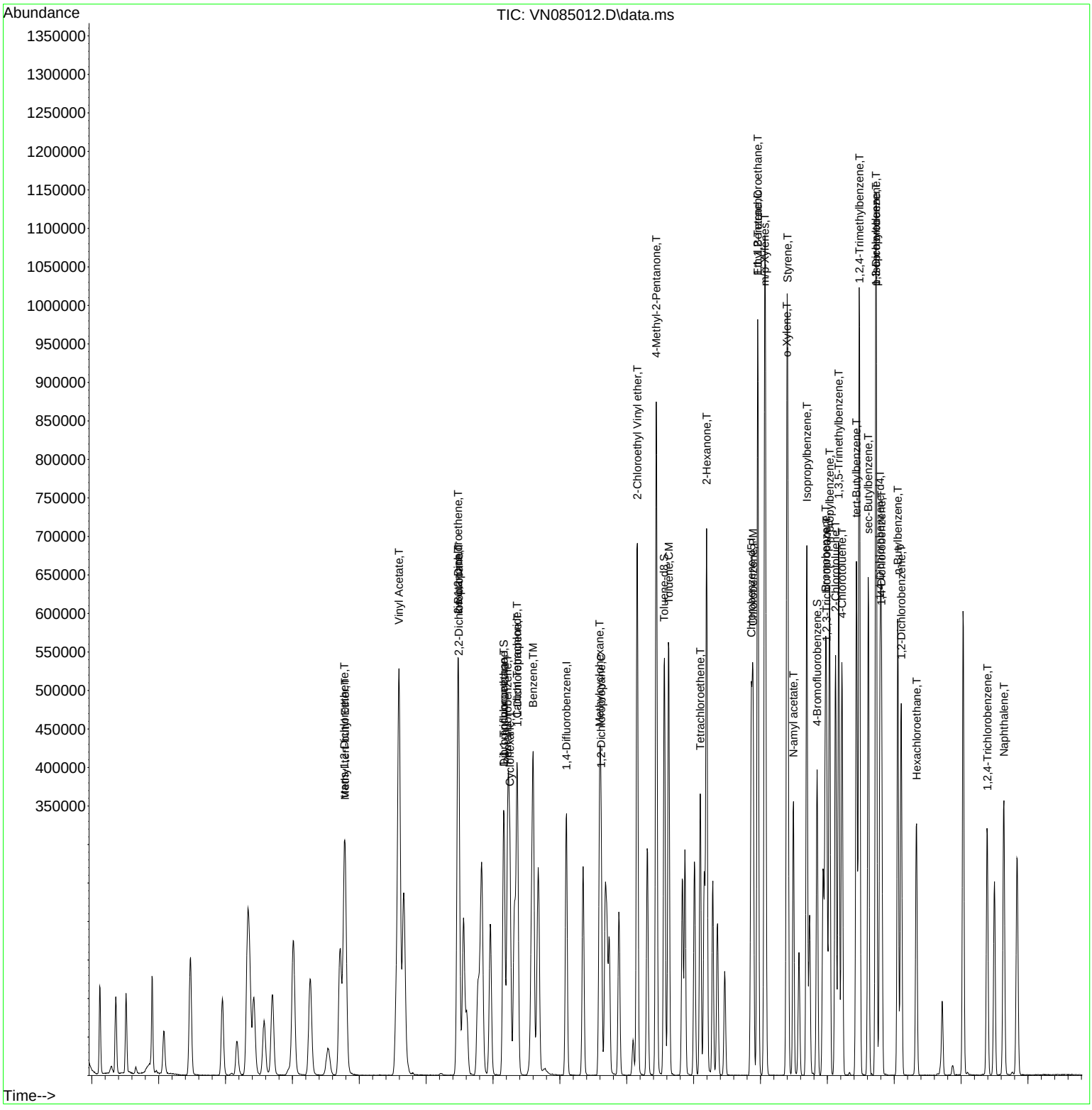
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN112224

Manual Integrations APPROVED

Reviewed By :John Carlone 11/25/2024
Supervised By :Mahesh Dadoda 11/25/2024



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085012.D
Acq On : 22 Nov 2024 16:07
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN112224

Quant Time: Nov 23 02:57:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 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	110	0.00
2	T	Dichlorodifluoromethane	0.565	0.527	6.7	104	0.00
3	P	Chloromethane	0.656	0.553	15.7	103	0.00
4	C	Vinyl Chloride	0.589	0.539	8.5#	103	0.00
5	T	Bromomethane	0.330	0.297	10.0	105	0.00
6	T	Chloroethane	0.397	0.330	16.9	96	0.01
7	T	Trichlorofluoromethane	1.002	0.921	8.1	105	0.02
8	T	Diethyl Ether	0.341	0.327	4.1	103	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.569	0.520	8.6	104	0.00
10	T	Methyl Iodide	0.753	0.708	6.0	105	0.00
11	T	Tert butyl alcohol	0.095	0.083	12.6	101	0.00
12	CM	1,1-Dichloroethene	0.531	0.495	6.8#	104	0.01
13	T	Acrolein	0.064	0.065	-1.6	103	0.00
14	T	Allyl chloride	0.895	0.844	5.7	105	0.00
15	T	Acrylonitrile	0.269	0.250	7.1	105	0.00
16	T	Acetone	0.207	0.210	-1.4	114	0.00
17	T	Carbon Disulfide	1.566	1.358	13.3	102	0.00
18	T	Methyl Acetate	0.804	0.618	23.1	104	0.00
19	T	Methyl tert-butyl Ether	1.734	1.685	2.8	105	0.00
20	T	Methylene Chloride	0.633	0.545	13.9	102	0.00
21	T	trans-1,2-Dichloroethene	0.558	0.512	8.2	101	0.00
22	T	Diisopropyl ether	1.801	1.703	5.4	106	0.00
23	T	Vinyl Acetate	1.242	1.230	1.0	105	0.00
24	P	1,1-Dichloroethane	1.078	0.984	8.7	103	0.00
25	T	2-Butanone	0.339	0.327	3.5	109	0.00
26	T	2,2-Dichloropropane	1.006	0.933	7.3	104	0.00
27	T	cis-1,2-Dichloroethene	0.673	0.614	8.8	103	0.00
28	T	Bromochloromethane	0.407	0.374	8.1	104	0.00
29	T	Tetrahydrofuran	0.211	0.204	3.3	105	0.00
30	C	Chloroform	1.146	1.046	8.7#	105	0.00
31	T	Cyclohexane	0.949	0.874	7.9	109	0.00
32	T	1,1,1-Trichloroethane	1.036	0.947	8.6	103	0.00
33	S	1,2-Dichloroethane-d4	0.712	0.720	-1.1	113	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	108	0.00
35	S	Dibromofluoromethane	0.337	0.348	-3.3	111	0.00
36	T	1,1-Dichloropropene	0.457	0.439	3.9	104	0.00
37	T	Ethyl Acetate	0.415	0.387	6.7	104	0.00
38	T	Carbon Tetrachloride	0.527	0.515	2.3	104	0.00
39	T	Methylcyclohexane	0.475	0.495	-4.2	106	0.00
40	TM	Benzene	1.444	1.377	4.6	105	0.00
41	T	Methacrylonitrile	0.230	0.227	1.3	106	0.00
42	TM	1,2-Dichloroethane	0.494	0.465	5.9	105	0.00
43	T	Isopropyl Acetate	0.862	0.717	16.8	103	0.00
44	TM	Trichloroethene	0.336	0.317	5.7	105	0.00
45	C	1,2-Dichloropropane	0.356	0.335	5.9#	104	0.00
46	T	Dibromomethane	0.247	0.237	4.0	105	0.00
47	T	Bromodichloromethane	0.524	0.499	4.8	103	0.00
48	T	Methyl methacrylate	0.321	0.327	-1.9	108	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085012.D
Acq On : 22 Nov 2024 16:07
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN112224

Quant Time: Nov 23 02:57:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 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	0.006	0.005	16.7	98	0.00
50	S	Toluene-d8	1.208	1.293	-7.0	112	0.00
51	T	4-Methyl-2-Pentanone	0.394	0.397	-0.8	106	0.00
52	CM	Toluene	0.855	0.850	0.6#	104	0.00
53	T	t-1,3-Dichloropropene	0.525	0.514	2.1	101	0.00
54	T	cis-1,3-Dichloropropene	0.557	0.558	-0.2	105	0.00
55	T	1,1,2-Trichloroethane	0.319	0.314	1.6	106	0.00
56	T	Ethyl methacrylate	0.465	0.509	-9.5	106	0.00
57	T	1,3-Dichloropropane	0.561	0.538	4.1	104	0.00
58	T	2-Chloroethyl Vinyl ether	0.228	0.215	5.7	86	0.00
59	T	2-Hexanone	0.295	0.303	-2.7	105	0.00
60	T	Dibromochloromethane	0.389	0.371	4.6	104	0.00
61	T	1,2-Dibromoethane	0.330	0.322	2.4	106	0.00
62	S	4-Bromofluorobenzene	0.452	0.482	-6.6	111	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	109	0.00
64	T	Tetrachloroethene	0.337	0.326	3.3	109	0.00
65	PM	Chlorobenzene	1.134	1.042	8.1	105	0.00
66	T	1,1,1,2-Tetrachloroethane	0.399	0.375	6.0	103	0.00
67	C	Ethyl Benzene	1.840	1.878	-2.1#	106	0.00
68	T	m/p-Xylenes	0.700	0.714	-2.0	106	0.00
69	T	o-Xylene	0.666	0.681	-2.3	105	0.00
70	T	Styrene	1.108	1.168	-5.4	107	0.00
71	P	Bromoform	0.296	0.288	2.7	102	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	112	0.00
73	T	Isopropylbenzene	3.527	3.458	2.0	107	0.00
74	T	N-amyl acetate	1.454	1.437	1.2	104	0.00
75	P	1,1,2,2-Tetrachloroethane	1.204	1.031	14.4	105	0.00
76	T	1,2,3-Trichloropropane	0.909	0.823	9.5	103	0.00
77	T	Bromobenzene	0.949	0.843	11.2	103	0.00
78	T	n-propylbenzene	4.068	4.081	-0.3	108	0.00
79	T	2-Chlorotoluene	2.716	2.521	7.2	106	0.00
80	T	1,3,5-Trimethylbenzene	2.960	2.973	-0.4	106	0.00
81	T	trans-1,4-Dichloro-2-butene	0.412	0.385	6.6	106	0.00
82	T	4-Chlorotoluene	2.827	2.573	9.0	104	0.00
83	T	tert-Butylbenzene	2.547	2.493	2.1	107	0.00
84	T	1,2,4-Trimethylbenzene	3.047	3.044	0.1	106	0.00
85	T	sec-Butylbenzene	3.440	3.452	-0.3	106	0.00
86	T	p-Isopropyltoluene	2.840	2.938	-3.5	107	0.00
87	T	1,3-Dichlorobenzene	1.872	1.590	15.1	104	0.00
88	T	1,4-Dichlorobenzene	1.911	1.576	17.5	101	0.00
89	T	n-Butylbenzene	2.641	2.530	4.2	107	0.00
90	T	Hexachloroethane	0.619	0.561	9.4	104	0.00
91	T	1,2-Dichlorobenzene	1.794	1.560	13.0	104	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.233	0.206	11.6	106	0.00
93	T	1,2,4-Trichlorobenzene	0.975	0.836	14.3	104	0.00
94	T	Hexachlorobutadiene	0.450	0.383	14.9	107	0.00
95	T	Naphthalene	2.776	2.558	7.9	101	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085012.D
Acq On : 22 Nov 2024 16:07
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN112224

Quant Time: Nov 23 02:57:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 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	0.930	0.799	14.1	100	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\VN112224\
Data File : VN085012.D
Acq On : 22 Nov 2024 16:07
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN112224

Quant Time: Nov 23 02:57:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 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	110	0.00
2	T	Dichlorodifluoromethane	50.000	46.612	6.8	104	0.00
3	P	Chloromethane	50.000	42.164	15.7	103	0.00
4	C	Vinyl Chloride	50.000	45.721	8.6#	103	0.00
5	T	Bromomethane	50.000	44.945	10.1	105	0.00
6	T	Chloroethane	50.000	41.527	16.9	96	0.01
7	T	Trichlorofluoromethane	50.000	45.916	8.2	105	0.02
8	T	Diethyl Ether	50.000	47.942	4.1	103	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	45.709	8.6	104	0.00
10	T	Methyl Iodide	50.000	47.063	5.9	105	0.00
11	T	Tert butyl alcohol	250.000	216.857	13.3	101	0.00
12	CM	1,1-Dichloroethene	50.000	46.677	6.6#	104	0.01
13	T	Acrolein	250.000	256.710	-2.7	103	0.00
14	T	Allyl chloride	50.000	47.178	5.6	105	0.00
15	T	Acrylonitrile	250.000	232.029	7.2	105	0.00
16	T	Acetone	250.000	252.665	-1.1	114	0.00
17	T	Carbon Disulfide	50.000	43.362	13.3	102	0.00
18	T	Methyl Acetate	50.000	46.500	7.0	104	0.00
19	T	Methyl tert-butyl Ether	50.000	48.602	2.8	105	0.00
20	T	Methylene Chloride	50.000	43.090	13.8	102	0.00
21	T	trans-1,2-Dichloroethene	50.000	45.805	8.4	101	0.00
22	T	Diisopropyl ether	50.000	47.281	5.4	106	0.00
23	T	Vinyl Acetate	250.000	247.560	1.0	105	0.00
24	P	1,1-Dichloroethane	50.000	45.647	8.7	103	0.00
25	T	2-Butanone	250.000	240.802	3.7	109	0.00
26	T	2,2-Dichloropropane	50.000	46.349	7.3	104	0.00
27	T	cis-1,2-Dichloroethene	50.000	45.609	8.8	103	0.00
28	T	Bromochloromethane	50.000	45.913	8.2	104	0.00
29	T	Tetrahydrofuran	250.000	241.241	3.5	105	0.00
30	C	Chloroform	50.000	45.623	8.8#	105	0.00
31	T	Cyclohexane	50.000	46.084	7.8	109	0.00
32	T	1,1,1-Trichloroethane	50.000	45.714	8.6	103	0.00
33	S	1,2-Dichloroethane-d4	50.000	50.568	-1.1	113	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	108	0.00
35	S	Dibromofluoromethane	50.000	51.572	-3.1	111	0.00
36	T	1,1-Dichloropropene	50.000	48.093	3.8	104	0.00
37	T	Ethyl Acetate	50.000	46.651	6.7	104	0.00
38	T	Carbon Tetrachloride	50.000	48.846	2.3	104	0.00
39	T	Methylcyclohexane	50.000	52.114	-4.2	106	0.00
40	TM	Benzene	50.000	47.675	4.7	105	0.00
41	T	Methacrylonitrile	50.000	49.311	1.4	106	0.00
42	TM	1,2-Dichloroethane	50.000	47.025	6.0	105	0.00
43	T	Isopropyl Acetate	50.000	41.574	16.9	103	0.00
44	TM	Trichloroethene	50.000	47.205	5.6	105	0.00
45	C	1,2-Dichloropropane	50.000	47.073	5.9#	104	0.00
46	T	Dibromomethane	50.000	47.909	4.2	105	0.00
47	T	Bromodichloromethane	50.000	47.631	4.7	103	0.00
48	T	Methyl methacrylate	50.000	50.900	-1.8	108	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085012.D
Acq On : 22 Nov 2024 16:07
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN112224

Quant Time: Nov 23 02:57:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 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	950.585	4.9	98	0.00
50	S	Toluene-d8	50.000	53.488	-7.0	112	0.00
51	T	4-Methyl-2-Pentanone	250.000	251.720	-0.7	106	0.00
52	CM	Toluene	50.000	49.682	0.6#	104	0.00
53	T	t-1,3-Dichloropropene	50.000	48.881	2.2	101	0.00
54	T	cis-1,3-Dichloropropene	50.000	50.100	-0.2	105	0.00
55	T	1,1,2-Trichloroethane	50.000	49.287	1.4	106	0.00
56	T	Ethyl methacrylate	50.000	54.694	-9.4	106	0.00
57	T	1,3-Dichloropropane	50.000	47.980	4.0	104	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	235.323	5.9	86	0.00
59	T	2-Hexanone	250.000	256.983	-2.8	105	0.00
60	T	Dibromochloromethane	50.000	47.650	4.7	104	0.00
61	T	1,2-Dibromoethane	50.000	48.883	2.2	106	0.00
62	S	4-Bromofluorobenzene	50.000	53.276	-6.6	111	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	109	0.00
64	T	Tetrachloroethene	50.000	48.316	3.4	109	0.00
65	PM	Chlorobenzene	50.000	45.936	8.1	105	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	46.991	6.0	103	0.00
67	C	Ethyl Benzene	50.000	51.046	-2.1#	106	0.00
68	T	m/p-Xylenes	100.000	101.951	-2.0	106	0.00
69	T	o-Xylene	50.000	51.086	-2.2	105	0.00
70	T	Styrene	50.000	52.687	-5.4	107	0.00
71	P	Bromoform	50.000	48.617	2.8	102	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	112	0.00
73	T	Isopropylbenzene	50.000	49.014	2.0	107	0.00
74	T	N-amyl acetate	50.000	49.418	1.2	104	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	42.796	14.4	105	0.00
76	T	1,2,3-Trichloropropane	50.000	45.225	9.5	103	0.00
77	T	Bromobenzene	50.000	44.410	11.2	103	0.00
78	T	n-propylbenzene	50.000	50.160	-0.3	108	0.00
79	T	2-Chlorotoluene	50.000	46.409	7.2	106	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.220	-0.4	106	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	46.764	6.5	106	0.00
82	T	4-Chlorotoluene	50.000	45.496	9.0	104	0.00
83	T	tert-Butylbenzene	50.000	48.939	2.1	107	0.00
84	T	1,2,4-Trimethylbenzene	50.000	49.962	0.1	106	0.00
85	T	sec-Butylbenzene	50.000	50.166	-0.3	106	0.00
86	T	p-Isopropyltoluene	50.000	51.719	-3.4	107	0.00
87	T	1,3-Dichlorobenzene	50.000	42.459	15.1	104	0.00
88	T	1,4-Dichlorobenzene	50.000	41.240	17.5	101	0.00
89	T	n-Butylbenzene	50.000	47.892	4.2	107	0.00
90	T	Hexachloroethane	50.000	45.332	9.3	104	0.00
91	T	1,2-Dichlorobenzene	50.000	43.472	13.1	104	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	44.183	11.6	106	0.00
93	T	1,2,4-Trichlorobenzene	50.000	42.908	14.2	104	0.00
94	T	Hexachlorobutadiene	50.000	42.581	14.8	107	0.00
95	T	Naphthalene	50.000	46.067	7.9	101	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085012.D
Acq On : 22 Nov 2024 16:07
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN112224

Quant Time: Nov 23 02:57:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 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	42.932	14.1	100	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: ATCE02

Lab Code: CHEM Case No.: P5240 SAS No.: P5240 SDG No.: P5240

Instrument ID: MSVOA_N Calibration Date/Time: 12/10/2024 10:17

Lab File ID: VN085155.D Init. Calib. Date(s): 11/22/2024 11/22/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:22 13:45

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Benzene	1.445	1.502		4.02	20
Toluene	0.855	0.947		10.76	20
Ethyl Benzene	1.840	2.077		12.88	20
m/p-Xylenes	0.700	0.799		14.14	20
o-Xylene	0.666	0.751		12.76	20
1,2-Dichloroethane-d4	0.712	0.624		-12.36	20
Dibromofluoromethane	0.337	0.318		-5.64	20
Toluene-d8	1.208	1.112		-7.95	20
4-Bromofluorobenzene	0.452	0.429		-5.09	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\VN121024\
Data File : VN085155.D
Acq On : 10 Dec 2024 10:17
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 11 04:09:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/11/2024
Supervised By :Mahesh Dadoda 12/11/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	161771	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	254585	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	227639	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	114435	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	100968	43.817	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 87.640%			
35) Dibromofluoromethane	8.165	113	80898	47.120	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.240%			
50) Toluene-d8	10.565	98	283027	46.000	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 92.000%			
62) 4-Bromofluorobenzene	12.847	95	109323	47.513	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.020%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	72444	39.604	ug/l	98
3) Chloromethane	2.359	50	75657	35.660	ug/l	99
4) Vinyl Chloride	2.512	62	83190	43.632	ug/l	99
5) Bromomethane	2.942	94	56111	52.506	ug/l	92
6) Chloroethane	3.112	64	57592	44.815	ug/l	97
7) Trichlorofluoromethane	3.489	101	156361	48.210	ug/l	97
8) Diethyl Ether	3.959	74	54924	49.754	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	90558	49.229	ug/l	99
10) Methyl Iodide	4.583	142	112211	46.083	ug/l	97
11) Tert butyl alcohol	5.524	59	94183	305.860	ug/l	96
12) 1,1-Dichloroethene	4.336	96	82512	48.055	ug/l	95
13) Acrolein	4.177	56	49200	239.449	ug/l	94
14) Allyl chloride	5.018	41	121955	42.132	ug/l	93
15) Acrylonitrile	5.718	53	241285	276.768	ug/l	99
16) Acetone	4.424	43	205958	306.894	ug/l	96
17) Carbon Disulfide	4.712	76	219247	43.261	ug/l	98
18) Methyl Acetate	5.024	43	116827	54.569	ug/l	100
19) Methyl tert-butyl Ether	5.794	73	291303	51.925	ug/l	99
20) Methylene Chloride	5.271	84	95094	46.435	ug/l	98
21) trans-1,2-Dichloroethene	5.789	96	87744	48.561	ug/l	92
22) Diisopropyl ether	6.671	45	286562	49.189	ug/l	98
23) Vinyl Acetate	6.600	43	1064076	264.757	ug/l	99
24) 1,1-Dichloroethane	6.565	63	167962	48.178	ug/l	99
25) 2-Butanone	7.483	43	312705	285.003	ug/l	99
26) 2,2-Dichloropropane	7.488	77	158470	48.679	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	105122	48.259	ug/l	99
28) Bromochloromethane	7.812	49	63811	48.488	ug/l	93
29) Tetrahydrofuran	7.835	42	203138	297.720	ug/l	100
30) Chloroform	7.965	83	181439	48.925	ug/l	100
31) Cyclohexane	8.253	56	137900	44.926	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	167961	50.120	ug/l	99
36) 1,1-Dichloropropene	8.371	75	121699	52.334	ug/l	98
37) Ethyl Acetate	7.559	43	126344	59.763	ug/l	99
38) Carbon Tetrachloride	8.359	117	150001	55.882	ug/l	95
39) Methylcyclohexane	9.600	83	130835	54.143	ug/l	97
40) Benzene	8.606	78	382412	51.994	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121024\
Data File : VN085155.D
Acq On : 10 Dec 2024 10:17
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 11 04:09:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/11/2024
Supervised By :Mahesh Dadoda 12/11/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.777	41	69840	59.666 ug/l	99
42) 1,2-Dichloroethane	8.671	62	133886	53.210 ug/l	99
43) Isopropyl Acetate	8.688	43	216103	49.212 ug/l	99
44) Trichloroethene	9.353	130	90528	52.964 ug/l	89
45) 1,2-Dichloropropane	9.618	63	94473	52.151 ug/l	98
46) Dibromomethane	9.706	93	67708	53.789 ug/l	97
47) Bromodichloromethane	9.888	83	148442	55.641 ug/l	96
48) Methyl methacrylate	9.677	41	100482	61.491 ug/l	97
49) 1,4-Dioxane	9.694	88	37507	1323.546 ug/l #	95
51) 4-Methyl-2-Pentanone	10.447	43	648487	323.315 ug/l	99
52) Toluene	10.629	92	241011	55.352 ug/l	98
53) t-1,3-Dichloropropene	10.835	75	149649	55.950 ug/l	96
54) cis-1,3-Dichloropropene	10.312	75	159530	56.221 ug/l	97
55) 1,1,2-Trichloroethane	11.018	97	93815	57.846 ug/l	97
56) Ethyl methacrylate	10.871	69	153163	64.629 ug/l	99
57) 1,3-Dichloropropane	11.159	76	158618	55.570 ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	298456	256.740 ug/l	99
59) 2-Hexanone	11.194	43	502281	334.831 ug/l	99
60) Dibromochloromethane	11.359	129	114214	57.623 ug/l	99
61) 1,2-Dibromoethane	11.465	107	95141	56.684 ug/l	98
64) Tetrachloroethene	11.100	164	83806	54.636 ug/l	98
65) Chlorobenzene	11.888	112	266304	51.583 ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	98394	54.132 ug/l	99
67) Ethyl Benzene	11.965	91	472867	56.457 ug/l	99
68) m/p-Xylenes	12.070	106	363961	114.138 ug/l	98
69) o-Xylene	12.400	106	170850	56.325 ug/l	99
70) Styrene	12.412	104	299865	59.446 ug/l	99
71) Bromoform	12.576	173	79524	58.940 ug/l #	97
73) Isopropylbenzene	12.694	105	446376	55.292 ug/l	99
74) N-amyl acetate	12.494	43	187043	56.225 ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.935	83	138487	50.236 ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	94312m	45.310 ug/l	
77) Bromobenzene	12.976	156	109755	50.520 ug/l	99
78) n-propylbenzene	13.035	91	526627	56.557 ug/l	100
79) 2-Chlorotoluene	13.123	91	325020	52.289 ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	388272	57.316 ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	53298	56.526 ug/l	95
82) 4-Chlorotoluene	13.217	91	332454	51.378 ug/l	100
83) tert-Butylbenzene	13.435	119	328162	56.301 ug/l	96
84) 1,2,4-Trimethylbenzene	13.482	105	386485	55.425 ug/l	99
85) sec-Butylbenzene	13.617	105	447308	56.810 ug/l	100
86) p-Isopropyltoluene	13.729	119	379255	58.349 ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	203179	47.415 ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	199118	45.534 ug/l	98
89) n-Butylbenzene	14.053	91	318390	52.674 ug/l	99
90) Hexachloroethane	14.335	117	73606	51.953 ug/l	96
91) 1,2-Dichlorobenzene	14.106	146	192705	46.931 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	28376	53.231 ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	102022	45.734 ug/l	98
94) Hexachlorobutadiene	15.500	225	47842	46.470 ug/l	97
95) Naphthalene	15.641	128	324727	51.110 ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	98754	46.396 ug/l	96

Sample Results: **VN085155.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121024\
Data File : VN085155.D
Acq On : 10 Dec 2024 10:17
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 11 04:09:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/11/2024
Supervised By :Mahesh Dadoda 12/11/2024

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

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

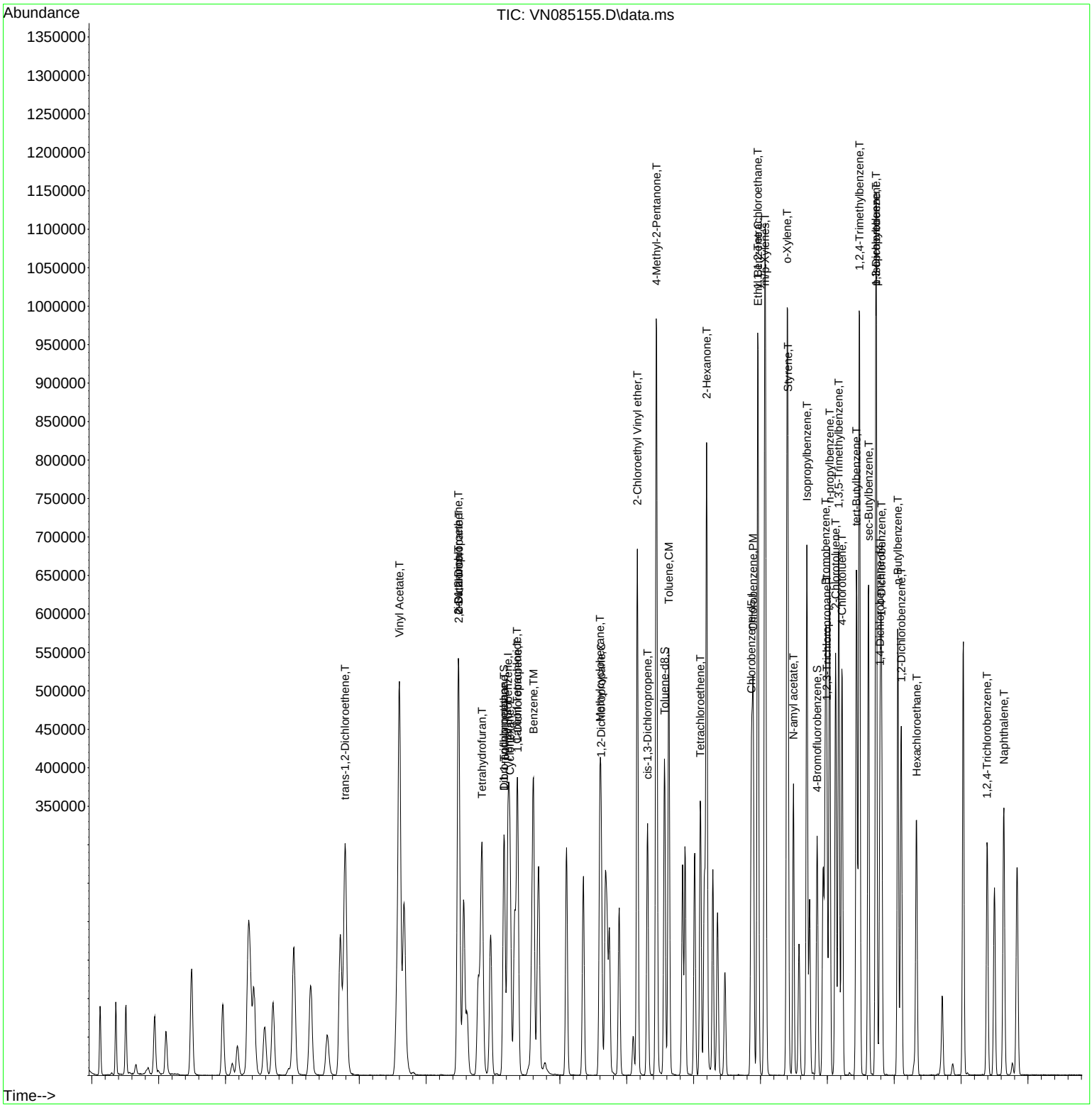
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121024\
Data File : VN085155.D
Acq On : 10 Dec 2024 10:17
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 11 04:09:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 12/11/2024
Supervised By :Mahesh Dadoda 12/11/2024



Sample Results: **VN085155.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121024\
Data File : VN085155.D
Acq On : 10 Dec 2024 10:17
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 11 04:09:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 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	0.565	0.448	20.7	79	0.00
3	P	Chloromethane	0.656	0.468	28.7#	78	0.00
4	C	Vinyl Chloride	0.589	0.514	12.7#	89	0.00
5	T	Bromomethane	0.330	0.347	-5.2	110	0.04
6	T	Chloroethane	0.397	0.356	10.3	93	0.05
7	T	Trichlorofluoromethane	1.002	0.967	3.5	99	0.03
8	T	Diethyl Ether	0.341	0.340	0.3	96	0.01
9	T	1,1,2-Trichlorotrifluoroeth	0.569	0.560	1.6	101	0.01
10	T	Methyl Iodide	0.753	0.694	7.8	92	0.01
11	T	Tert butyl alcohol	0.095	0.116	-22.1	128	-0.02
12	CM	1,1-Dichloroethene	0.531	0.510	4.0#	96	0.02
13	T	Acrolein	0.064	0.061	4.7	86	0.01
14	T	Allyl chloride	0.895	0.754	15.8	84	0.01
15	T	Acrylonitrile	0.269	0.298	-10.8	112	0.00
16	T	Acetone	0.207	0.255	-23.2	124	0.00
17	T	Carbon Disulfide	1.566	1.355	13.5	91	0.02
18	T	Methyl Acetate	0.804	0.722	10.2	109	0.00
19	T	Methyl tert-butyl Ether	1.734	1.801	-3.9	101	0.00
20	T	Methylene Chloride	0.633	0.588	7.1	99	0.00
21	T	trans-1,2-Dichloroethene	0.558	0.542	2.9	96	0.02
22	T	Diisopropyl ether	1.801	1.771	1.7	99	0.00
23	T	Vinyl Acetate	1.242	1.316	-6.0	101	0.00
24	P	1,1-Dichloroethane	1.078	1.038	3.7	98	0.01
25	T	2-Butanone	0.339	0.387	-14.2	116	0.00
26	T	2,2-Dichloropropane	1.006	0.980	2.6	98	0.00
27	T	cis-1,2-Dichloroethene	0.673	0.650	3.4	98	0.00
28	T	Bromochloromethane	0.407	0.394	3.2	99	0.00
29	T	Tetrahydrofuran	0.211	0.251	-19.0	116	0.00
30	C	Chloroform	1.146	1.122	2.1#	101	0.00
31	T	Cyclohexane	0.949	0.852	10.2	96	0.00
32	T	1,1,1-Trichloroethane	1.036	1.038	-0.2	102	0.00
33	S	1,2-Dichloroethane-d4	0.712	0.624	12.4	88	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	94	0.00
35	S	Dibromofluoromethane	0.337	0.318	5.6	88	0.00
36	T	1,1-Dichloropropene	0.457	0.478	-4.6	99	0.00
37	T	Ethyl Acetate	0.415	0.496	-19.5	116	0.00
38	T	Carbon Tetrachloride	0.527	0.589	-11.8	104	0.00
39	T	Methylcyclohexane	0.475	0.514	-8.2	95	0.00
40	TM	Benzene	1.444	1.502	-4.0	99	0.00
41	T	Methacrylonitrile	0.230	0.274	-19.1	112	0.00
42	TM	1,2-Dichloroethane	0.494	0.526	-6.5	103	0.00
43	T	Isopropyl Acetate	0.862	0.849	1.5	106	0.00
44	TM	Trichloroethene	0.336	0.356	-6.0	102	0.00
45	C	1,2-Dichloropropane	0.356	0.371	-4.2#	100	0.00
46	T	Dibromomethane	0.247	0.266	-7.7	102	0.00
47	T	Bromodichloromethane	0.524	0.583	-11.3	105	0.00
48	T	Methyl methacrylate	0.321	0.395	-23.1	113	0.00

Sample Results: **VN085155.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121024\
Data File : VN085155.D
Acq On : 10 Dec 2024 10:17
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 11 04:09:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 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	0.006	0.007	-16.7	119	0.00
50	S	Toluene-d8	1.208	1.112	7.9	84	0.00
51	T	4-Methyl-2-Pentanone	0.394	0.509	-29.2#	118	0.00
52	CM	Toluene	0.855	0.947	-10.8#	100	0.00
53	T	t-1,3-Dichloropropene	0.525	0.588	-12.0	100	0.00
54	T	cis-1,3-Dichloropropene	0.557	0.627	-12.6	102	0.00
55	T	1,1,2-Trichloroethane	0.319	0.369	-15.7	107	0.00
56	T	Ethyl methacrylate	0.465	0.602	-29.5#	109	0.00
57	T	1,3-Dichloropropane	0.561	0.623	-11.1	105	0.00
58	T	2-Chloroethyl Vinyl ether	0.228	0.234	-2.6	81	0.00
59	T	2-Hexanone	0.295	0.395	-33.9#	118	0.00
60	T	Dibromochloromethane	0.389	0.449	-15.4	109	0.00
61	T	1,2-Dibromoethane	0.330	0.374	-13.3	106	0.00
62	S	4-Bromofluorobenzene	0.452	0.429	5.1	86	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	98	0.00
64	T	Tetrachloroethene	0.337	0.368	-9.2	110	0.00
65	PM	Chlorobenzene	1.134	1.170	-3.2	105	0.00
66	T	1,1,1,2-Tetrachloroethane	0.399	0.432	-8.3	107	0.00
67	C	Ethyl Benzene	1.840	2.077	-12.9#	105	0.00
68	T	m/p-Xylenes	0.700	0.799	-14.1	106	0.00
69	T	o-Xylene	0.666	0.751	-12.8	104	0.00
70	T	Styrene	1.108	1.317	-18.9	108	0.00
71	P	Bromoform	0.296	0.349	-17.9	111	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
73	T	Isopropylbenzene	3.527	3.901	-10.6	107	0.00
74	T	N-amyl acetate	1.454	1.634	-12.4	105	0.00
75	P	1,1,2,2-Tetrachloroethane	1.204	1.210	-0.5	110	0.00
76	T	1,2,3-Trichloropropane	0.909	0.824	9.4	91	0.00
77	T	Bromobenzene	0.949	0.959	-1.1	104	0.00
78	T	n-propylbenzene	4.068	4.602	-13.1	109	0.00
79	T	2-Chlorotoluene	2.716	2.840	-4.6	106	0.00
80	T	1,3,5-Trimethylbenzene	2.960	3.393	-14.6	108	0.00
81	T	trans-1,4-Dichloro-2-butene	0.412	0.466	-13.1	114	0.00
82	T	4-Chlorotoluene	2.827	2.905	-2.8	105	0.00
83	T	tert-Butylbenzene	2.547	2.868	-12.6	109	0.00
84	T	1,2,4-Trimethylbenzene	3.047	3.377	-10.8	104	0.00
85	T	sec-Butylbenzene	3.440	3.909	-13.6	107	0.00
86	T	p-Isopropyltoluene	2.840	3.314	-16.7	107	0.00
87	T	1,3-Dichlorobenzene	1.872	1.775	5.2	103	0.00
88	T	1,4-Dichlorobenzene	1.911	1.740	8.9	99	0.00
89	T	n-Butylbenzene	2.641	2.782	-5.3	104	0.00
90	T	Hexachloroethane	0.619	0.643	-3.9	106	0.00
91	T	1,2-Dichlorobenzene	1.794	1.684	6.1	100	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.233	0.248	-6.4	113	0.00
93	T	1,2,4-Trichlorobenzene	0.975	0.892	8.5	99	0.00
94	T	Hexachlorobutadiene	0.450	0.418	7.1	104	0.00
95	T	Naphthalene	2.776	2.838	-2.2	100	0.00

Sample Results: **VN085155.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121024\
Data File : VN085155.D
Acq On : 10 Dec 2024 10:17
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 11 04:09:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 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	0.930	0.863	7.2	96	0.00

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

Sample Results: **VN085155.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121024\
Data File : VN085155.D
Acq On : 10 Dec 2024 10:17
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 11 04:09:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 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	39.604	20.8	79	0.00
3	P	Chloromethane	50.000	35.660	28.7#	78	0.00
4	C	Vinyl Chloride	50.000	43.632	12.7#	89	0.00
5	T	Bromomethane	50.000	52.506	-5.0	110	0.04
6	T	Chloroethane	50.000	44.815	10.4	93	0.05
7	T	Trichlorofluoromethane	50.000	48.210	3.6	99	0.03
8	T	Diethyl Ether	50.000	49.754	0.5	96	0.01
9	T	1,1,2-Trichlorotrifluoroeth	50.000	49.229	1.5	101	0.01
10	T	Methyl Iodide	50.000	46.083	7.8	92	0.01
11	T	Tert butyl alcohol	250.000	305.860	-22.3	128	-0.02
12	CM	1,1-Dichloroethene	50.000	48.055	3.9#	96	0.02
13	T	Acrolein	250.000	239.449	4.2	86	0.01
14	T	Allyl chloride	50.000	42.132	15.7	84	0.01
15	T	Acrylonitrile	250.000	276.768	-10.7	112	0.00
16	T	Acetone	250.000	306.894	-22.8	124	0.00
17	T	Carbon Disulfide	50.000	43.261	13.5	91	0.02
18	T	Methyl Acetate	50.000	54.569	-9.1	109	0.00
19	T	Methyl tert-butyl Ether	50.000	51.925	-3.8	101	0.00
20	T	Methylene Chloride	50.000	46.435	7.1	99	0.00
21	T	trans-1,2-Dichloroethene	50.000	48.561	2.9	96	0.02
22	T	Diisopropyl ether	50.000	49.189	1.6	99	0.00
23	T	Vinyl Acetate	250.000	264.757	-5.9	101	0.00
24	P	1,1-Dichloroethane	50.000	48.178	3.6	98	0.01
25	T	2-Butanone	250.000	285.003	-14.0	116	0.00
26	T	2,2-Dichloropropane	50.000	48.679	2.6	98	0.00
27	T	cis-1,2-Dichloroethene	50.000	48.259	3.5	98	0.00
28	T	Bromochloromethane	50.000	48.488	3.0	99	0.00
29	T	Tetrahydrofuran	250.000	297.720	-19.1	116	0.00
30	C	Chloroform	50.000	48.925	2.2#	101	0.00
31	T	Cyclohexane	50.000	44.926	10.1	96	0.00
32	T	1,1,1-Trichloroethane	50.000	50.120	-0.2	102	0.00
33	S	1,2-Dichloroethane-d4	50.000	43.817	12.4	88	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	94	0.00
35	S	Dibromofluoromethane	50.000	47.120	5.8	88	0.00
36	T	1,1-Dichloropropene	50.000	52.334	-4.7	99	0.00
37	T	Ethyl Acetate	50.000	59.763	-19.5	116	0.00
38	T	Carbon Tetrachloride	50.000	55.882	-11.8	104	0.00
39	T	Methylcyclohexane	50.000	54.143	-8.3	95	0.00
40	TM	Benzene	50.000	51.994	-4.0	99	0.00
41	T	Methacrylonitrile	50.000	59.666	-19.3	112	0.00
42	TM	1,2-Dichloroethane	50.000	53.210	-6.4	103	0.00
43	T	Isopropyl Acetate	50.000	49.212	1.6	106	0.00
44	TM	Trichloroethene	50.000	52.964	-5.9	102	0.00
45	C	1,2-Dichloropropane	50.000	52.151	-4.3#	100	0.00
46	T	Dibromomethane	50.000	53.789	-7.6	102	0.00
47	T	Bromodichloromethane	50.000	55.641	-11.3	105	0.00
48	T	Methyl methacrylate	50.000	61.491	-23.0	113	0.00

Sample Results: **VN085155.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121024\
Data File : VN085155.D
Acq On : 10 Dec 2024 10:17
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 11 04:09:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 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	1323.546	-32.4#	119	0.00
50	S	Toluene-d8	50.000	46.000	8.0	84	0.00
51	T	4-Methyl-2-Pentanone	250.000	323.315	-29.3#	118	0.00
52	CM	Toluene	50.000	55.352	-10.7#	100	0.00
53	T	t-1,3-Dichloropropene	50.000	55.950	-11.9	100	0.00
54	T	cis-1,3-Dichloropropene	50.000	56.221	-12.4	102	0.00
55	T	1,1,2-Trichloroethane	50.000	57.846	-15.7	107	0.00
56	T	Ethyl methacrylate	50.000	64.629	-29.3#	109	0.00
57	T	1,3-Dichloropropane	50.000	55.570	-11.1	105	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	256.740	-2.7	81	0.00
59	T	2-Hexanone	250.000	334.831	-33.9#	118	0.00
60	T	Dibromochloromethane	50.000	57.623	-15.2	109	0.00
61	T	1,2-Dibromoethane	50.000	56.684	-13.4	106	0.00
62	S	4-Bromofluorobenzene	50.000	47.513	5.0	86	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	98	0.00
64	T	Tetrachloroethene	50.000	54.636	-9.3	110	0.00
65	PM	Chlorobenzene	50.000	51.583	-3.2	105	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	54.132	-8.3	107	0.00
67	C	Ethyl Benzene	50.000	56.457	-12.9#	105	0.00
68	T	m/p-Xylenes	100.000	114.138	-14.1	106	0.00
69	T	o-Xylene	50.000	56.325	-12.7	104	0.00
70	T	Styrene	50.000	59.446	-18.9	108	0.00
71	P	Bromoform	50.000	58.940	-17.9	111	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
73	T	Isopropylbenzene	50.000	55.292	-10.6	107	0.00
74	T	N-amyl acetate	50.000	56.225	-12.5	105	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	50.236	-0.5	110	0.00
76	T	1,2,3-Trichloropropane	50.000	45.310	9.4	91	0.00
77	T	Bromobenzene	50.000	50.520	-1.0	104	0.00
78	T	n-propylbenzene	50.000	56.557	-13.1	109	0.00
79	T	2-Chlorotoluene	50.000	52.289	-4.6	106	0.00
80	T	1,3,5-Trimethylbenzene	50.000	57.316	-14.6	108	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	56.526	-13.1	114	0.00
82	T	4-Chlorotoluene	50.000	51.378	-2.8	105	0.00
83	T	tert-Butylbenzene	50.000	56.301	-12.6	109	0.00
84	T	1,2,4-Trimethylbenzene	50.000	55.425	-10.8	104	0.00
85	T	sec-Butylbenzene	50.000	56.810	-13.6	107	0.00
86	T	p-Isopropyltoluene	50.000	58.349	-16.7	107	0.00
87	T	1,3-Dichlorobenzene	50.000	47.415	5.2	103	0.00
88	T	1,4-Dichlorobenzene	50.000	45.534	8.9	99	0.00
89	T	n-Butylbenzene	50.000	52.674	-5.3	104	0.00
90	T	Hexachloroethane	50.000	51.953	-3.9	106	0.00
91	T	1,2-Dichlorobenzene	50.000	46.931	6.1	100	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	53.231	-6.5	113	0.00
93	T	1,2,4-Trichlorobenzene	50.000	45.734	8.5	99	0.00
94	T	Hexachlorobutadiene	50.000	46.470	7.1	104	0.00
95	T	Naphthalene	50.000	51.110	-2.2	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121024\
Data File : VN085155.D
Acq On : 10 Dec 2024 10:17
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Dec 11 04:09:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 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	46.396	7.2	96	0.00

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

QC SAMPLE DATA

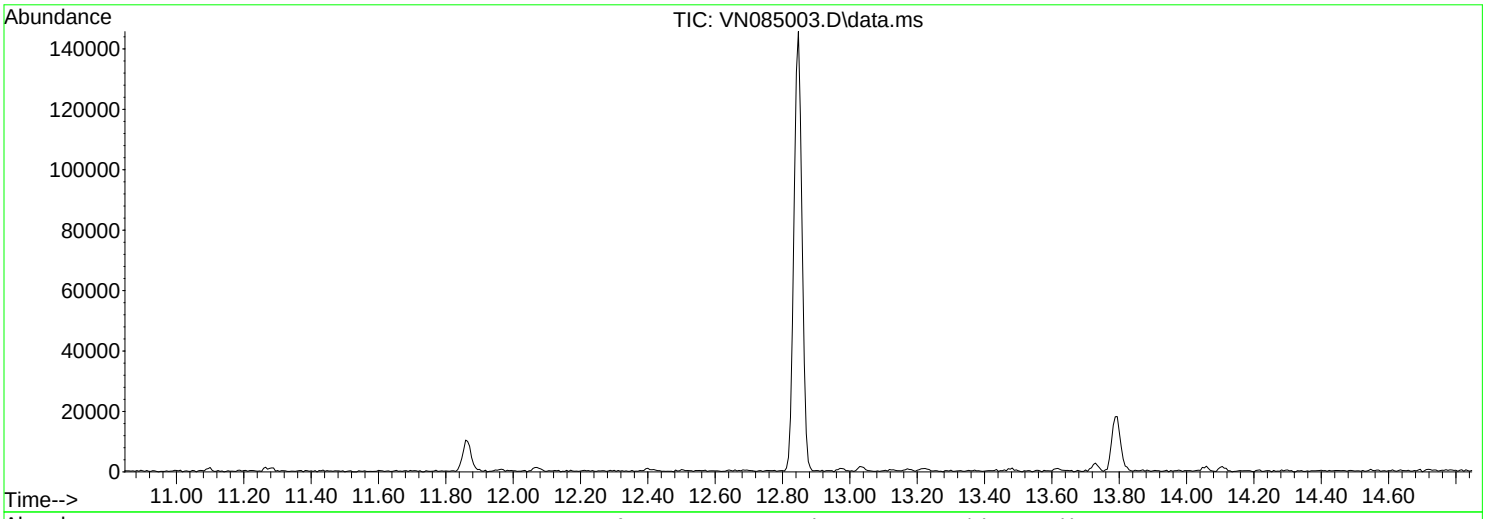
Sample Results: **VN085003.D**

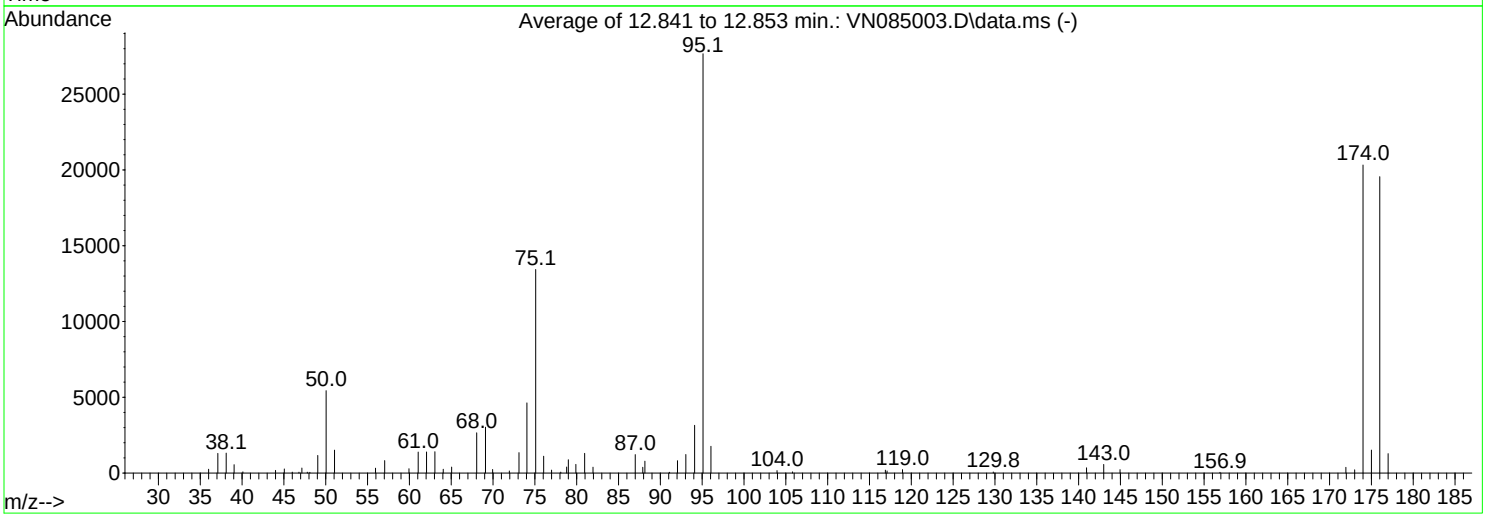
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112224\
Data File : VN085003.D
Acq On : 22 Nov 2024 09:29
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Title : SW846 8260
Last Update : Sat Nov 23 02:54:10 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	19.7	5439	PASS
75	95	30	60	48.5	13431	PASS
95	95	100	100	100.0	27667	PASS
96	95	5	9	6.4	1766	PASS
173	174	0.00	2	1.1	216	PASS
174	95	50	100	73.5	20325	PASS
175	174	5	9	7.5	1518	PASS
176	174	95	101	96.2	19555	PASS
177	176	5	9	6.6	1282	PASS

Average of 12.841 to 12.853 min.: VN085003.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	254	48.10	51	65.05	396	78.80	399
37.10	1298	49.05	1163	68.05	2657	79.00	882
38.10	1317	50.05	5439	69.10	3028	79.90	572
39.05	554	51.05	1513	69.95	237	80.95	1301
40.10	84	55.95	322	71.95	141	81.95	389
44.00	176	57.05	824	73.10	1348	87.00	1219
45.05	272	59.95	289	74.05	4631	87.90	383
46.00	62	61.05	1386	75.10	13431	88.15	786
46.80	61	62.05	1393	76.05	1113	91.10	54
47.15	333	63.05	1409	77.00	195	92.05	818
47.80	59	64.05	255	78.10	63	93.05	1225

Instrument :
MSVOA_N
ClientSampleId :
BFB

Average of 12.841 to 12.853 min.: VN085003.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.10	3150	144.95	229				
95.10	27667	156.90	50				
96.05	1766	171.95	381				
103.95	166	173.00	216				
105.80	83	174.00	20325				
116.90	194	175.00	1518				
117.10	139	176.00	19555				
118.95	227	177.00	1282				
129.80	74						
140.95	348						
143.00	571						

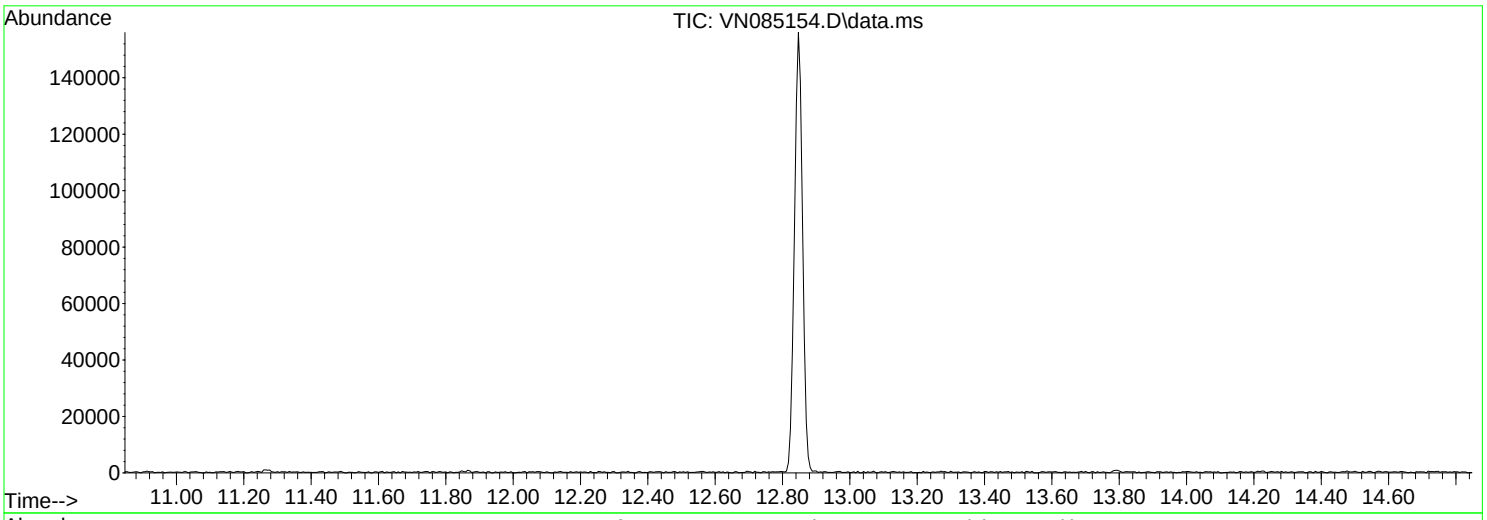
Sample Results: **VN085154.D**

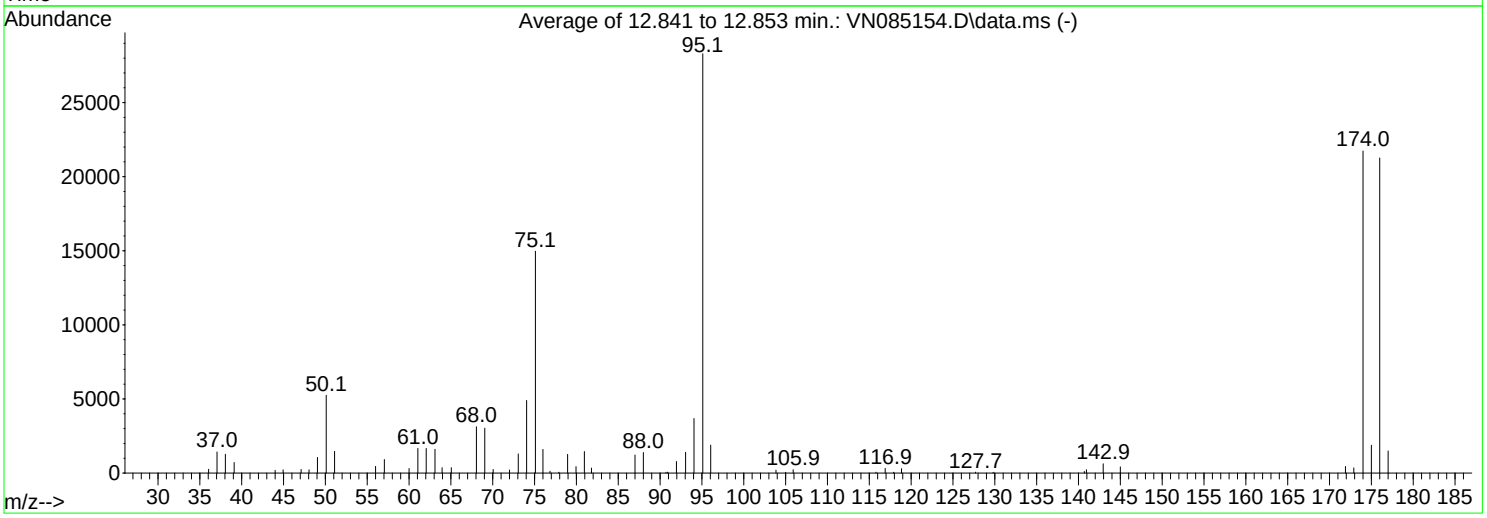
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121024\
Data File : VN085154.D
Acq On : 10 Dec 2024 08:37
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Title : SW846 8260
Last Update : Sat Nov 23 02:54:10 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	18.5	5248	PASS
75	95	30	60	52.9	14972	PASS
95	95	100	100	100.0	28296	PASS
96	95	5	9	6.7	1886	PASS
173	174	0.00	2	1.6	350	PASS
174	95	50	100	76.8	21733	PASS
175	174	5	9	8.6	1875	PASS
176	174	95	101	97.8	21264	PASS
177	176	5	9	7.0	1494	PASS

Average of 12.841 to 12.853 min.: VN085154.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	256	56.00	454	72.00	211	87.00	1221
37.05	1426	57.05	915	73.05	1291	88.00	1385
38.05	1269	60.00	309	74.05	4900	90.70	55
39.10	716	61.05	1664	75.10	14972	90.90	66
44.00	187	62.05	1661	76.00	1601	91.95	782
44.95	220	63.10	1606	76.85	127	93.05	1406
47.10	246	63.95	362	77.90	60	94.05	3684
48.05	222	65.05	365	78.95	1260	95.10	28296
49.05	1057	68.05	3126	79.95	436	96.05	1886
50.10	5248	69.05	3033	80.95	1454	103.85	197
51.10	1469	70.05	247	81.80	341	105.00	52

Instrument :
MSVOA_N
ClientSampleId :
BFB

Average of 12.841 to 12.853 min.: VN085154.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
105.90	230	171.90	447				
115.80	63	172.90	350				
116.90	317	174.00	21733				
117.90	59	175.00	1875				
118.85	299	176.00	21264				
127.70	66	177.00	1494				
129.80	52						
140.70	111						
140.95	226						
142.95	629						
145.00	422						

Raw Data: **VN085157.D**

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

Report of Analysis

Client:	ATC Group Services LLC	Date Collected:	
Project:	Queens PDC Wilmington VMF - 142-02 # M242660384	Date Received:	
Client Sample ID:	VN1210WBL01	SDG No.:	P5240
Lab Sample ID:	VN1210WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-BTEX
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085157.D	1		12/10/24 11:15	VN121024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.0		74 - 125	106%	SPK: 50
1868-53-7	Dibromofluoromethane	51.7		75 - 124	103%	SPK: 50
2037-26-5	Toluene-d8	49.3		86 - 113	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.9		77 - 121	88%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	144000	8.224			
540-36-3	1,4-Difluorobenzene	251000	9.1			
3114-55-4	Chlorobenzene-d5	221000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	86300	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\VN121024\
Data File : VN085157.D
Acq On : 10 Dec 2024 11:15
Operator : JC\MD
Sample : VN1210WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1210WBL01

Quant Time: Dec 11 04:11:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	144184	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	251448	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	221103	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	86343	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	108935	53.041	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.080%			
35) Dibromofluoromethane	8.165	113	87621	51.673	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.340%			
50) Toluene-d8	10.565	98	299374	49.264	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.520%			
62) 4-Bromofluorobenzene	12.847	95	99708	43.875	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 87.740%			
Target Compounds						Qvalue

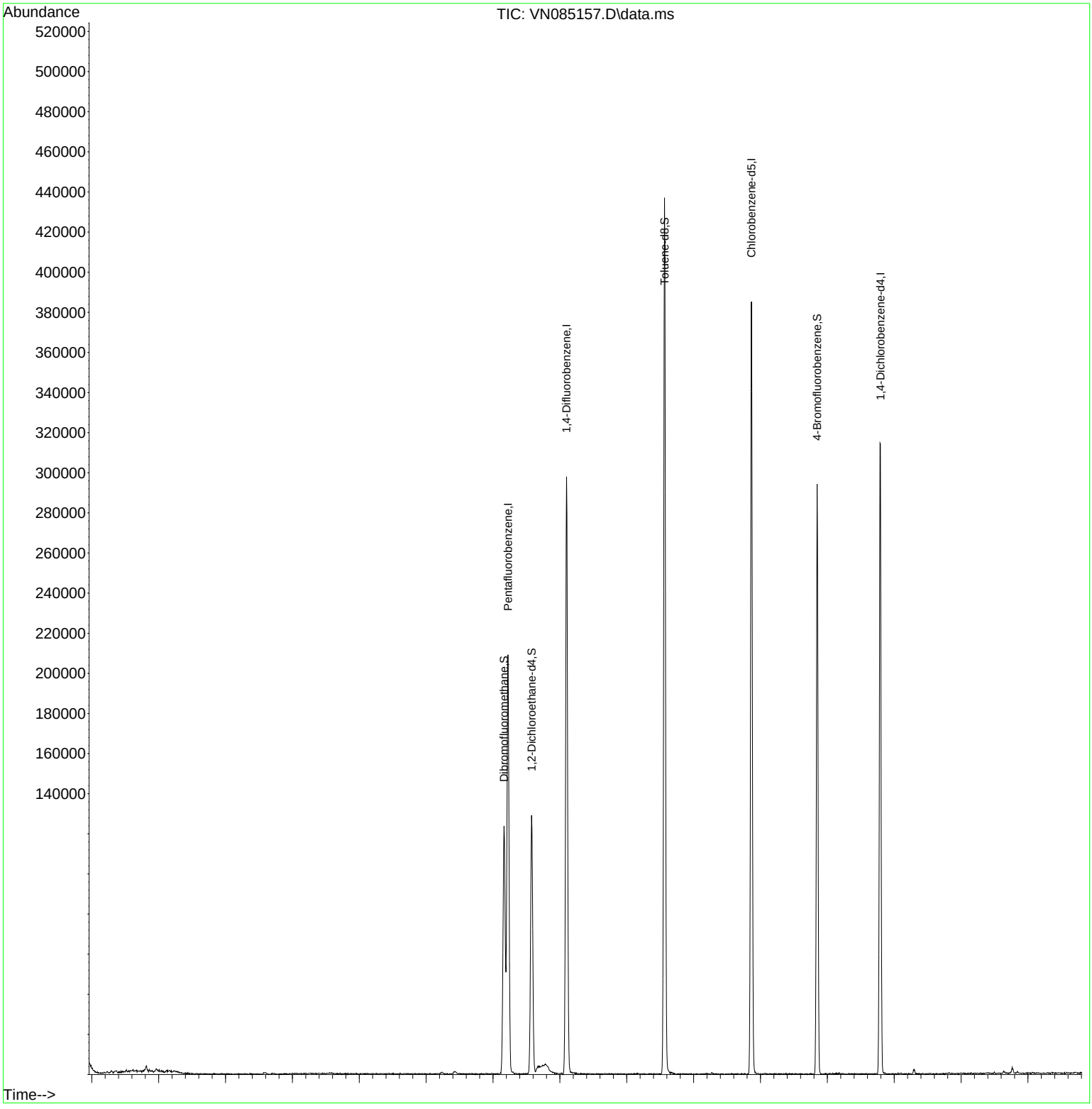
(#) = qualifier out of range (m) = manual integration (+) = signals summed

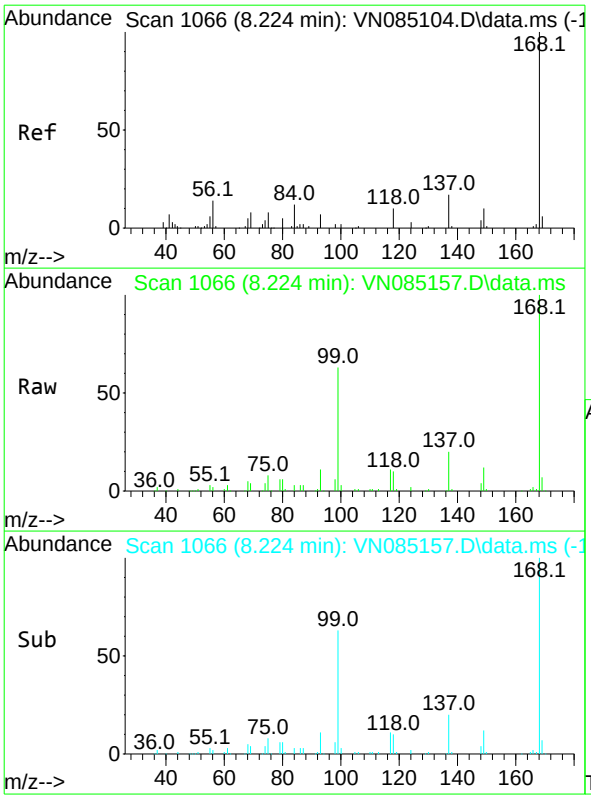
Sample Results: **VN085157.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121024\
Data File : VN085157.D
Acq On : 10 Dec 2024 11:15
Operator : JC\MD
Sample : VN1210WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1210WBL01

Quant Time: Dec 11 04:11:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration



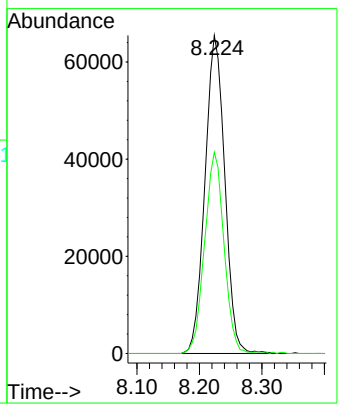


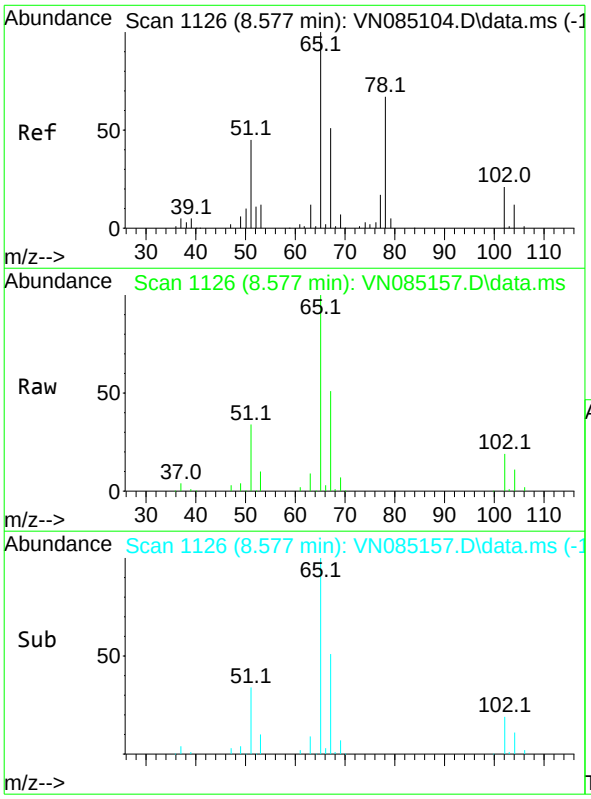
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085157.D
Acq: 10 Dec 2024 11:15

Instrument :
MSVOA_N
ClientSampleId :
VN1210WBL01

Tgt Ion:168 Resp: 144184

Ion	Ratio	Lower	Upper
168	100		
99	63.3	51.2	76.8

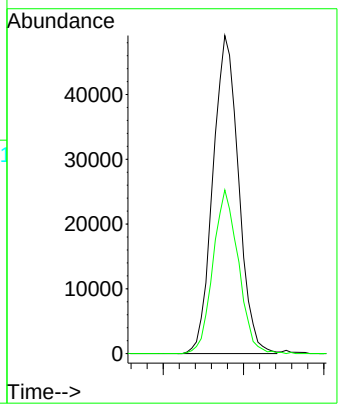


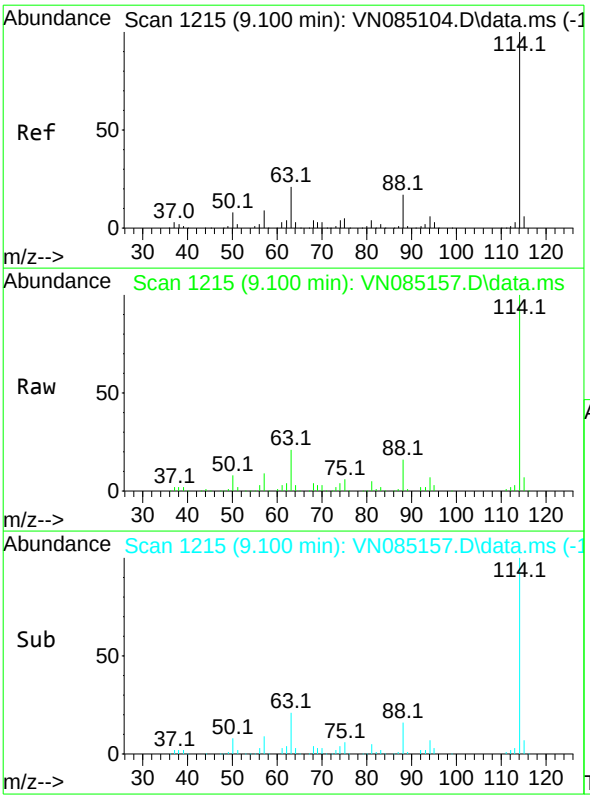


#33
1,2-Dichloroethane-d4
Concen: 53.041 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085157.D
Acq: 10 Dec 2024 11:15

Tgt Ion: 65 Resp: 108935

Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	105.0



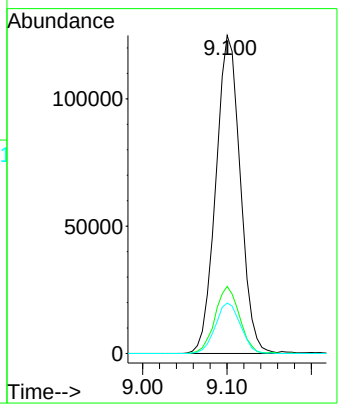


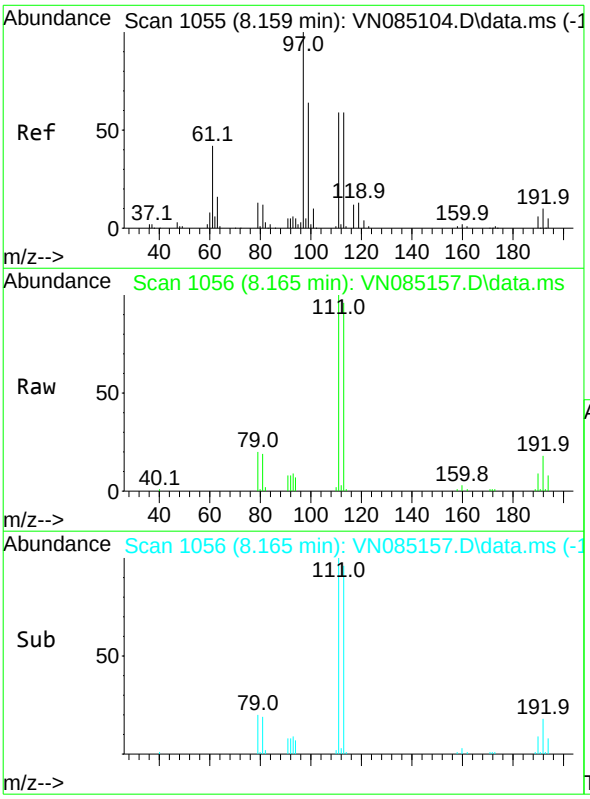
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 12
Delta R.T. 0.006 min
Lab File: VN085157.D
Acq: 10 Dec 2024 11:15

Instrument :
MSVOA_N
ClientSampleId :
VN1210WBL01

Tgt Ion:114 Resp: 251448

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	41.0
88	15.9	0.0	34.8

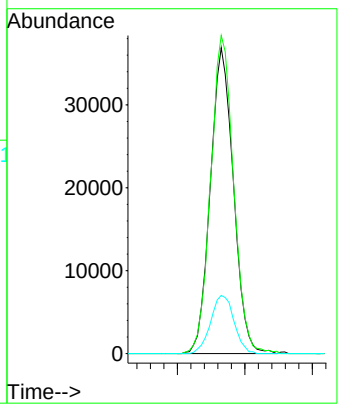


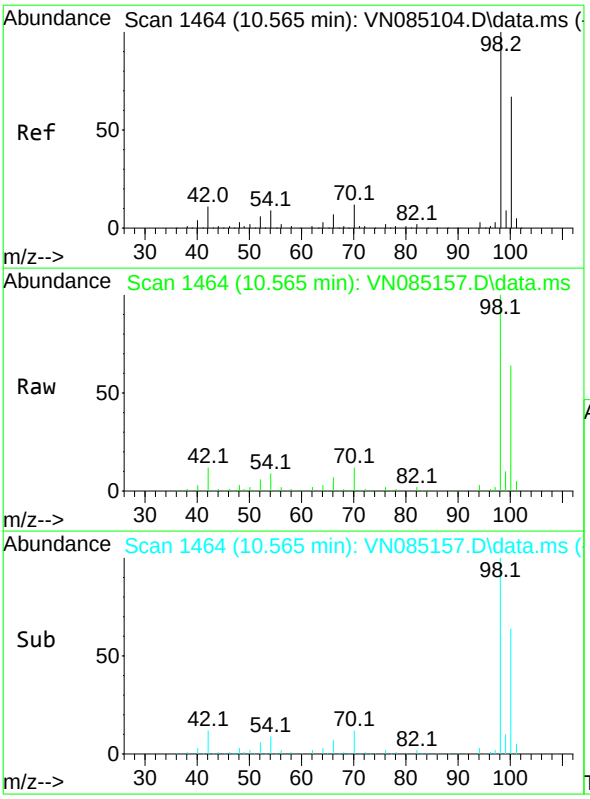


#35
Dibromofluoromethane
Concen: 51.673 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN085157.D
Acq: 10 Dec 2024 11:15

Tgt Ion:113 Resp: 87621

Ion	Ratio	Lower	Upper
113	100		
111	103.5	82.0	123.0
192	19.3	14.8	22.2



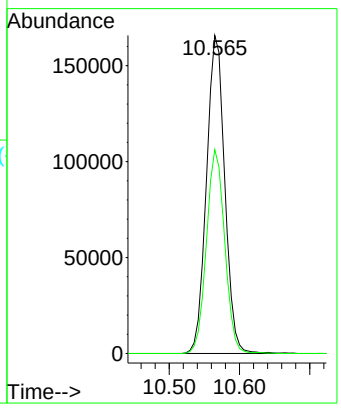


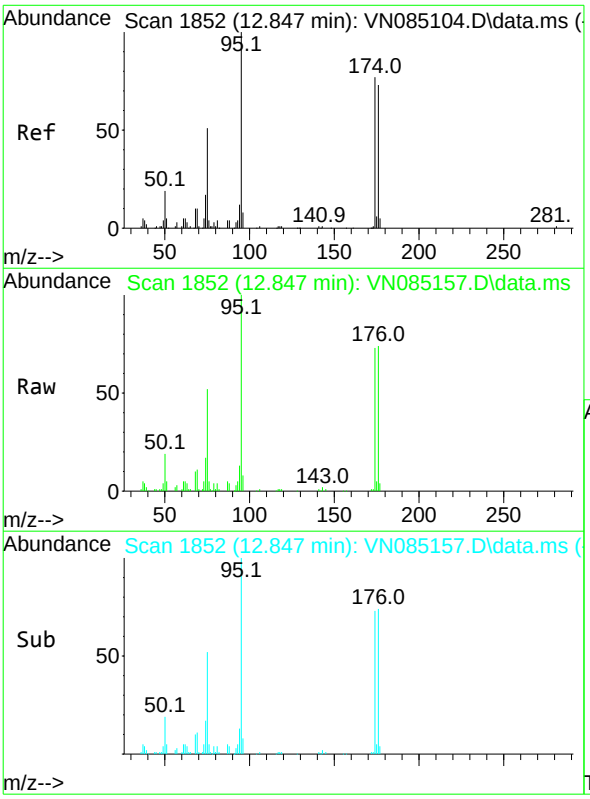
#50
Toluene-d8
Concen: 49.264 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN085157.D
Acq: 10 Dec 2024 11:15

Instrument :
MSVOA_N
ClientSampleId :
VN1210WBL01

Tgt Ion: 98 Resp: 299374

Ion	Ratio	Lower	Upper
98	100		
100	64.1	52.5	78.7

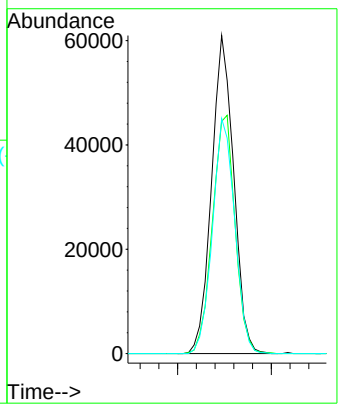


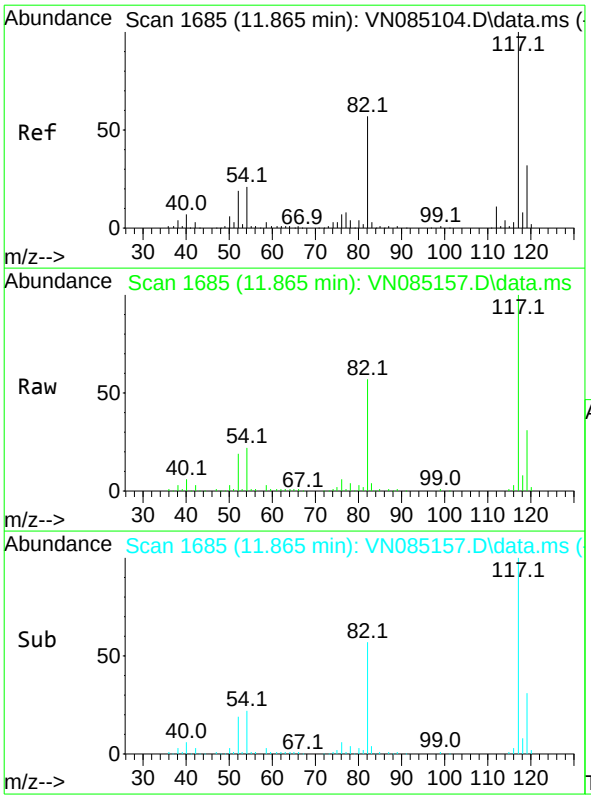


#62
4-Bromofluorobenzene
Concen: 43.875 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085157.D
Acq: 10 Dec 2024 11:15

Tgt Ion: 95 Resp: 99708

Ion	Ratio	Lower	Upper
95	100		
174	76.8	0.0	146.6
176	74.3	0.0	141.8



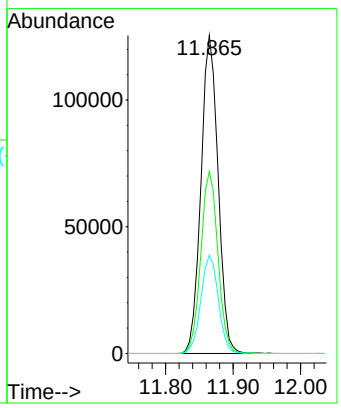


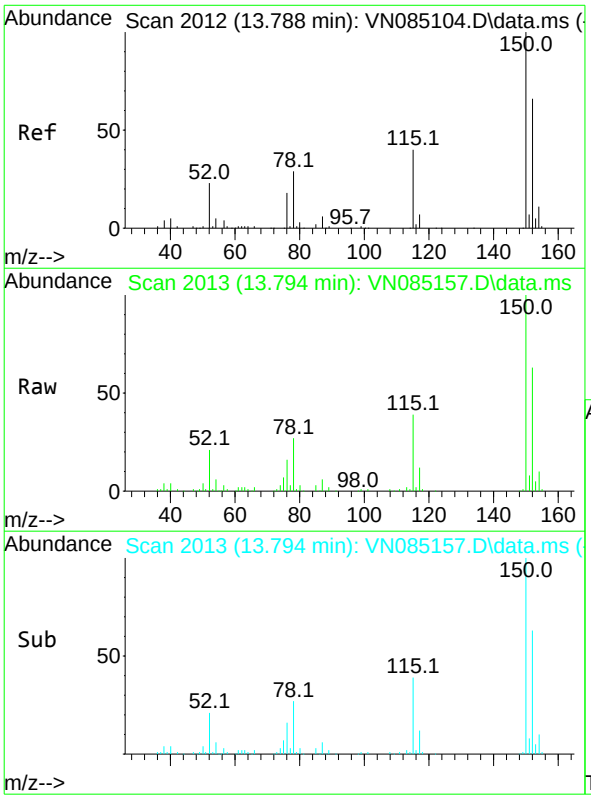
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 16
Delta R.T. 0.006 min
Lab File: VN085157.D
Acq: 10 Dec 2024 11:15

Instrument :
MSVOA_N
ClientSampleId :
VN1210WBL01

Tgt Ion:117 Resp: 221103

Ion	Ratio	Lower	Upper
117	100		
82	57.2	46.0	69.0
119	30.9	25.6	38.4

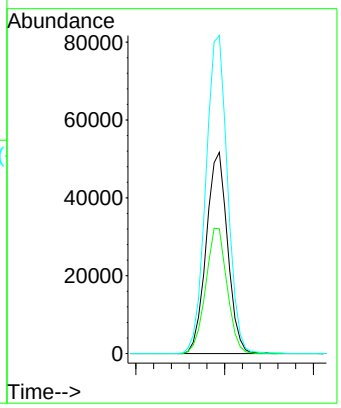




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN085157.D
Acq: 10 Dec 2024 11:15

Tgt Ion:152 Resp: 86343

Ion	Ratio	Lower	Upper
152	100		
115	62.3	31.7	95.1
150	160.6	0.0	351.4



Raw Data: **VN085158.D**

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

Report of Analysis

Client:	ATC Group Services LLC	Date Collected:	
Project:	Queens PDC Wilmington VMF - 142-02 # M242660384	Date Received:	
Client Sample ID:	VN1210WBS01	SDG No.:	P5240
Lab Sample ID:	VN1210WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-BTEX
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085158.D	1		12/10/24 11:42	VN121024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	18.0		0.16	1.00	ug/L
108-88-3	Toluene	18.7		0.18	1.00	ug/L
100-41-4	Ethyl Benzene	18.4		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	37.8		0.31	2.00	ug/L
95-47-6	o-Xylene	19.2		0.14	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.5		74 - 125	99%	SPK: 50
1868-53-7	Dibromofluoromethane	51.7		75 - 124	103%	SPK: 50
2037-26-5	Toluene-d8	50.5		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.3		77 - 121	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	148000	8.224			
540-36-3	1,4-Difluorobenzene	242000	9.1			
3114-55-4	Chlorobenzene-d5	211000	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

Sample Results: **VN085158.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121024\
Data File : VN085158.D
Acq On : 10 Dec 2024 11:42
Operator : JC\MD
Sample : VN1210WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 11 04:11:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1210WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/11/2024
Supervised By :Mahesh Dadoda 12/11/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	148284	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	241760	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	211196	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	107293	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	104508	49.478	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 98.960%			
35) Dibromofluoromethane	8.165	113	84366	51.747	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.500%			
50) Toluene-d8	10.565	98	294788	50.453	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.900%			
62) 4-Bromofluorobenzene	12.847	95	109806	50.254	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	23384	13.946	ug/l	97
3) Chloromethane	2.359	50	24363	12.528	ug/l	99
4) Vinyl Chloride	2.506	62	26353	15.079	ug/l	92
5) Bromomethane	2.948	94	19345	19.749	ug/l	90
6) Chloroethane	3.112	64	18919	16.061	ug/l	93
7) Trichlorofluoromethane	3.495	101	50483	16.981	ug/l	94
8) Diethyl Ether	3.965	74	16802	16.605	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	29749	17.643	ug/l	96
10) Methyl Iodide	4.583	142	34398	15.412	ug/l	99
11) Tert butyl alcohol	5.530	59	30867	109.358	ug/l	96
12) 1,1-Dichloroethene	4.336	96	26118	16.595	ug/l	83
13) Acrolein	4.177	56	16584	88.053	ug/l	96
14) Allyl chloride	5.024	41	40528m	15.275	ug/l	
15) Acrylonitrile	5.724	53	79261	99.186	ug/l	99
16) Acetone	4.424	43	67011	108.934	ug/l	99
17) Carbon Disulfide	4.712	76	68770	14.804	ug/l #	91
18) Methyl Acetate	5.024	43	39487	19.381	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	89389	17.383	ug/l	94
20) Methylene Chloride	5.271	84	31388	16.721	ug/l	92
21) trans-1,2-Dichloroethene	5.789	96	27773	16.769	ug/l #	91
22) Diisopropyl ether	6.671	45	91951	17.219	ug/l	96
23) Vinyl Acetate	6.606	43	324024	87.955	ug/l	99
24) 1,1-Dichloroethane	6.571	63	55759	17.449	ug/l	97
25) 2-Butanone	7.483	43	104026	103.434	ug/l	97
26) 2,2-Dichloropropane	7.488	77	51343	17.206	ug/l	99
27) cis-1,2-Dichloroethene	7.488	96	33886	16.971	ug/l	100
28) Bromochloromethane	7.812	49	22267	18.459	ug/l	95
29) Tetrahydrofuran	7.841	42	66949	107.045	ug/l	99
30) Chloroform	7.965	83	60138	17.691	ug/l	92
31) Cyclohexane	8.253	56	44762	15.909	ug/l	93
32) 1,1,1-Trichloroethane	8.165	97	54062	17.600	ug/l	97
36) 1,1-Dichloropropene	8.371	75	37946	17.183	ug/l	98
37) Ethyl Acetate	7.565	43	41991	20.916	ug/l	99
38) Carbon Tetrachloride	8.359	117	49083	19.256	ug/l	98
39) Methylcyclohexane	9.606	83	37468	16.328	ug/l	95
40) Benzene	8.606	78	125598	17.983	ug/l	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121024\
Data File : VN085158.D
Acq On : 10 Dec 2024 11:42
Operator : JC\MD
Sample : VN1210WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 11 04:11:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1210WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/11/2024
Supervised By :Mahesh Dadoda 12/11/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.777	41	23051	20.738 ug/l	99
42) 1,2-Dichloroethane	8.671	62	43502	18.206 ug/l	99
43) Isopropyl Acetate	8.688	43	71566	17.162 ug/l	100
44) Trichloroethene	9.353	130	30107	18.549 ug/l	94
45) 1,2-Dichloropropane	9.618	63	30201	17.556 ug/l	99
46) Dibromomethane	9.706	93	22668	18.963 ug/l	96
47) Bromodichloromethane	9.888	83	48463	19.129 ug/l	97
48) Methyl methacrylate	9.677	41	30191	19.456 ug/l	98
49) 1,4-Dioxane	9.694	88	13884	515.929 ug/l #	95
51) 4-Methyl-2-Pentanone	10.447	43	215132	112.948 ug/l	100
52) Toluene	10.629	92	77423	18.725 ug/l	94
53) t-1,3-Dichloropropene	10.835	75	46029	18.122 ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	49448	18.351 ug/l	98
55) 1,1,2-Trichloroethane	11.018	97	30862	20.039 ug/l	98
56) Ethyl methacrylate	10.871	69	45377	20.163 ug/l	98
57) 1,3-Dichloropropane	11.165	76	50898	18.778 ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	105895	95.926 ug/l	98
59) 2-Hexanone	11.194	43	163787	114.976 ug/l	99
60) Dibromochloromethane	11.359	129	38498	20.453 ug/l	94
61) 1,2-Dibromoethane	11.471	107	31268	19.617 ug/l	96
64) Tetrachloroethene	11.100	164	28096	19.743 ug/l	94
65) Chlorobenzene	11.894	112	85088	17.765 ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	31880	18.904 ug/l	99
67) Ethyl Benzene	11.965	91	143235	18.433 ug/l	98
68) m/p-Xylenes	12.070	106	111818	37.796 ug/l	99
69) o-Xylene	12.400	106	54040	19.203 ug/l	95
70) Styrene	12.412	104	90794	19.401 ug/l	99
71) Bromoform	12.576	173	25552	20.413 ug/l #	96
73) Isopropylbenzene	12.694	105	133262	17.606 ug/l	99
74) N-amyl acetate	12.494	43	58631	18.798 ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	45804	17.721 ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	44087m	22.590 ug/l	
77) Bromobenzene	12.982	156	35688	17.521 ug/l	99
78) n-propylbenzene	13.035	91	161451	18.493 ug/l	99
79) 2-Chlorotoluene	13.123	91	102538	17.594 ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	117167	18.447 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	16517m	18.684 ug/l	
82) 4-Chlorotoluene	13.223	91	103817	17.112 ug/l	98
83) tert-Butylbenzene	13.441	119	96322	17.626 ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	116884	17.878 ug/l	98
85) sec-Butylbenzene	13.617	105	133063	18.025 ug/l	99
86) p-Isopropyltoluene	13.729	119	112404	18.445 ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	65453	16.291 ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	65541	15.986 ug/l	98
89) n-Butylbenzene	14.053	91	90224	15.920 ug/l	99
90) Hexachloroethane	14.329	117	23588	17.757 ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	62951	16.351 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.723	75	9361	18.729 ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	28345	13.552 ug/l	95
94) Hexachlorobutadiene	15.500	225	15161	15.706 ug/l	98
95) Naphthalene	15.641	128	88876	14.920 ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	29846	14.955 ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121024\
Data File : VN085158.D
Acq On : 10 Dec 2024 11:42
Operator : JC\MD
Sample : VN1210WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 11 04:11:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1210WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/11/2024
Supervised By :Mahesh Dadoda 12/11/2024

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\VN121024\
Data File : VN085158.D
Acq On : 10 Dec 2024 11:42
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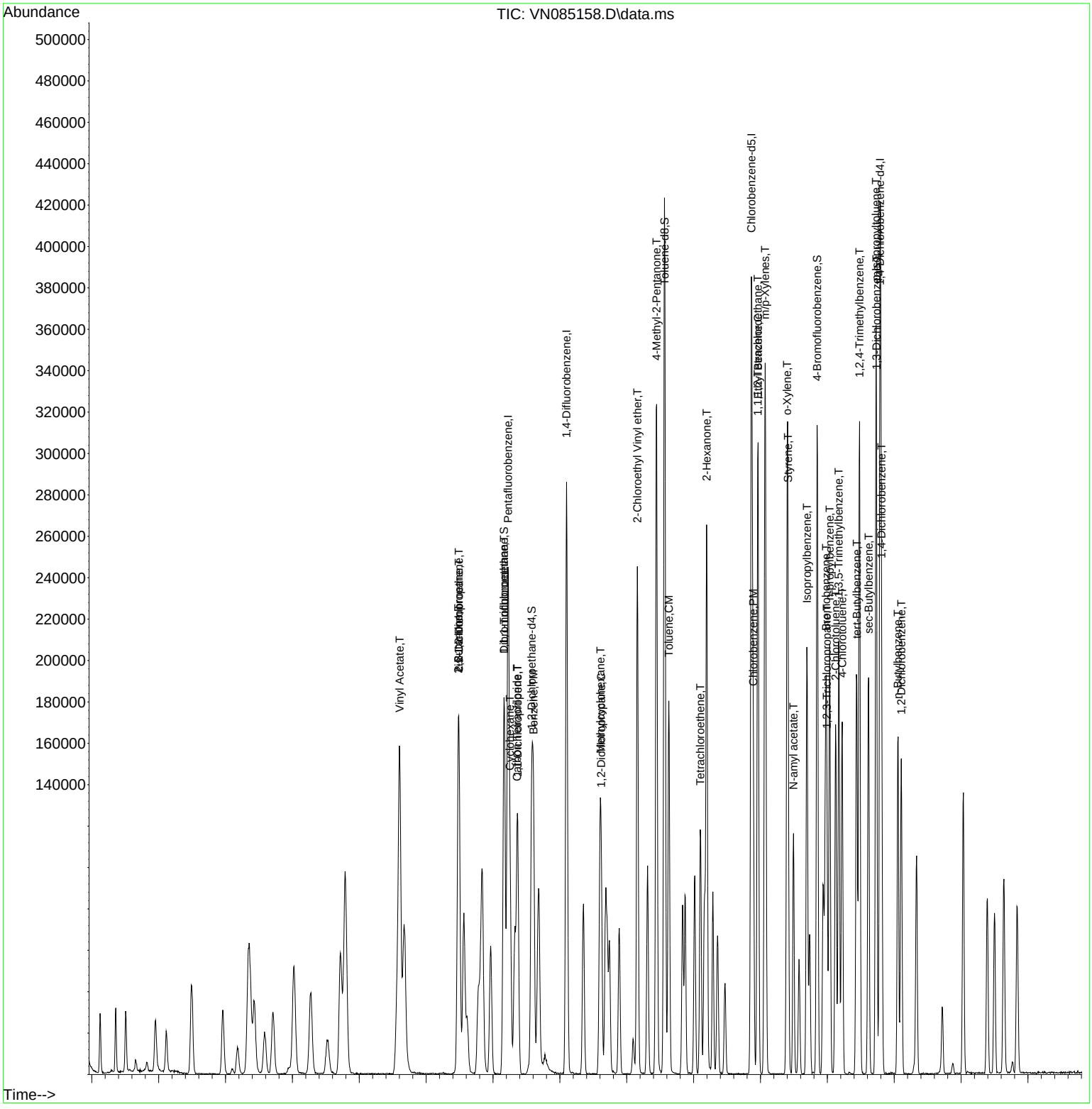
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1210WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/11/2024
Supervised By :Mahesh Dadoda 12/11/2024



Raw Data: **VN085159.D**

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

Report of Analysis

Client:	ATC Group Services LLC	Date Collected:	
Project:	Queens PDC Wilmington VMF - 142-02 # M242660384	Date Received:	
Client Sample ID:	VN1210WBSD01	SDG No.:	P5240
Lab Sample ID:	VN1210WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-BTEX
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085159.D	1		12/10/24 12:16	VN121024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	17.7		0.16	1.00	ug/L
108-88-3	Toluene	18.9		0.18	1.00	ug/L
100-41-4	Ethyl Benzene	18.1		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	37.1		0.31	2.00	ug/L
95-47-6	o-Xylene	18.4		0.14	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.3		74 - 125	101%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		75 - 124	104%	SPK: 50
2037-26-5	Toluene-d8	49.6		86 - 113	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.9		77 - 121	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	143000	8.224			
540-36-3	1,4-Difluorobenzene	234000	9.1			
3114-55-4	Chlorobenzene-d5	205000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	103000	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\VN121024\
Data File : VN085159.D
Acq On : 10 Dec 2024 12:16
Operator : JC\MD
Sample : VN1210WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 11 04:12:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1210WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/11/2024
Supervised By :Mahesh Dadoda 12/11/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	142566	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	233684	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	205174	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	102534	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	102120	50.287	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.580%			
35) Dibromofluoromethane	8.165	113	81940	51.996	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.000%			
50) Toluene-d8	10.565	98	280118	49.599	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.200%			
62) 4-Bromofluorobenzene	12.847	95	107398	50.851	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	21470	13.318	ug/l	100
3) Chloromethane	2.359	50	25427	13.599	ug/l	92
4) Vinyl Chloride	2.506	62	25104	14.940	ug/l	95
5) Bromomethane	2.953	94	18727	19.885	ug/l	91
6) Chloroethane	3.118	64	18040	15.929	ug/l	95
7) Trichlorofluoromethane	3.495	101	46284	16.193	ug/l	99
8) Diethyl Ether	3.959	74	17252	17.733	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.365	101	27896	17.208	ug/l	97
10) Methyl Iodide	4.589	142	32659	15.219	ug/l	96
11) Tert butyl alcohol	5.530	59	32103	118.299	ug/l #	86
12) 1,1-Dichloroethene	4.342	96	24480	16.178	ug/l	91
13) Acrolein	4.183	56	18678	103.149	ug/l	98
14) Allyl chloride	5.018	41	37842	14.835	ug/l	97
15) Acrylonitrile	5.724	53	80132	104.298	ug/l	99
16) Acetone	4.436	43	67958	114.904	ug/l	99
17) Carbon Disulfide	4.712	76	65949	14.766	ug/l	98
18) Methyl Acetate	5.030	43	40792	20.912	ug/l	100
19) Methyl tert-butyl Ether	5.800	73	90654	18.336	ug/l	95
20) Methylene Chloride	5.271	84	31330	17.360	ug/l	90
21) trans-1,2-Dichloroethene	5.783	96	27550	17.301	ug/l	93
22) Diisopropyl ether	6.671	45	90448	17.617	ug/l	96
23) Vinyl Acetate	6.606	43	334062	94.316	ug/l	100
24) 1,1-Dichloroethane	6.571	63	52108	16.960	ug/l	95
25) 2-Butanone	7.483	43	108010	111.703	ug/l	99
26) 2,2-Dichloropropane	7.488	77	48487	16.901	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	32641	17.003	ug/l	99
28) Bromochloromethane	7.818	49	21322	18.385	ug/l	93
29) Tetrahydrofuran	7.835	42	69375	115.373	ug/l	99
30) Chloroform	7.965	83	57284	17.528	ug/l	94
31) Cyclohexane	8.253	56	42563	15.734	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	51636	17.484	ug/l	97
36) 1,1-Dichloropropene	8.377	75	37166	17.412	ug/l	99
37) Ethyl Acetate	7.565	43	40886	21.070	ug/l	99
38) Carbon Tetrachloride	8.365	117	45926	18.640	ug/l	95
39) Methylcyclohexane	9.600	83	35535	16.021	ug/l	96
40) Benzene	8.606	78	119477	17.697	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121024\
Data File : VN085159.D
Acq On : 10 Dec 2024 12:16
Operator : JC\MD
Sample : VN1210WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 11 04:12:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1210WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/11/2024
Supervised By :Mahesh Dadoda 12/11/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.783	41	22425	20.872 ug/l	95
42) 1,2-Dichloroethane	8.665	62	43002	18.619 ug/l	99
43) Isopropyl Acetate	8.688	43	71897	17.837 ug/l	98
44) Trichloroethene	9.353	130	27935	17.805 ug/l	97
45) 1,2-Dichloropropane	9.618	63	30298	18.221 ug/l	98
46) Dibromomethane	9.706	93	22485	19.460 ug/l	98
47) Bromodichloromethane	9.888	83	47987	19.596 ug/l	98
48) Methyl methacrylate	9.677	41	32181	21.455 ug/l	94
49) 1,4-Dioxane	9.700	88	15101	580.546 ug/l #	90
51) 4-Methyl-2-Pentanone	10.447	43	221647	120.390 ug/l	99
52) Toluene	10.629	92	75732	18.949 ug/l	100
53) t-1,3-Dichloropropene	10.835	75	45706	18.617 ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	48635	18.673 ug/l	98
55) 1,1,2-Trichloroethane	11.018	97	30641	20.583 ug/l	98
56) Ethyl methacrylate	10.876	69	47018	21.614 ug/l	98
57) 1,3-Dichloropropane	11.165	76	51366	19.605 ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	107728	100.959 ug/l	99
59) 2-Hexanone	11.194	43	168052	122.047 ug/l	99
60) Dibromochloromethane	11.359	129	38080	20.930 ug/l	96
61) 1,2-Dibromoethane	11.465	107	30508	19.802 ug/l	100
64) Tetrachloroethene	11.106	164	27026	19.548 ug/l	90
65) Chlorobenzene	11.888	112	83396	17.923 ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	30974	18.906 ug/l	98
67) Ethyl Benzene	11.965	91	136780	18.119 ug/l	99
68) m/p-Xylenes	12.070	106	106671	37.115 ug/l	99
69) o-Xylene	12.400	106	50342	18.414 ug/l	99
70) Styrene	12.412	104	87270	19.195 ug/l	99
71) Bromoform	12.582	173	25454	20.931 ug/l #	97
73) Isopropylbenzene	12.694	105	130000	17.972 ug/l	99
74) N-amyl acetate	12.494	43	59368	19.917 ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.935	83	47401	19.190 ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	39745m	21.311 ug/l	
77) Bromobenzene	12.976	156	36030	18.510 ug/l	99
78) n-propylbenzene	13.035	91	157111	18.831 ug/l	99
79) 2-Chlorotoluene	13.123	91	100426	18.032 ug/l	98
80) 1,3,5-Trimethylbenzene	13.170	105	114472	18.859 ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	16780m	19.862 ug/l	
82) 4-Chlorotoluene	13.217	91	102984	17.763 ug/l	99
83) tert-Butylbenzene	13.441	119	95557	18.297 ug/l	97
84) 1,2,4-Trimethylbenzene	13.482	105	113571	18.177 ug/l	99
85) sec-Butylbenzene	13.617	105	128857	18.265 ug/l	100
86) p-Isopropyltoluene	13.729	119	107941	18.534 ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	63695	16.590 ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	64070	16.352 ug/l	98
89) n-Butylbenzene	14.059	91	85717	15.827 ug/l	98
90) Hexachloroethane	14.329	117	21795	17.169 ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	60893	16.551 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	9405	19.691 ug/l	94
93) 1,2,4-Trichlorobenzene	15.394	180	28919	14.468 ug/l	96
94) Hexachlorobutadiene	15.500	225	14373	15.581 ug/l	97
95) Naphthalene	15.641	128	89266	15.681 ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	28784	15.093 ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121024\
Data File : VN085159.D
Acq On : 10 Dec 2024 12:16
Operator : JC\MD
Sample : VN1210WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 11 04:12:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1210WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/11/2024
Supervised By :Mahesh Dadoda 12/11/2024

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

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

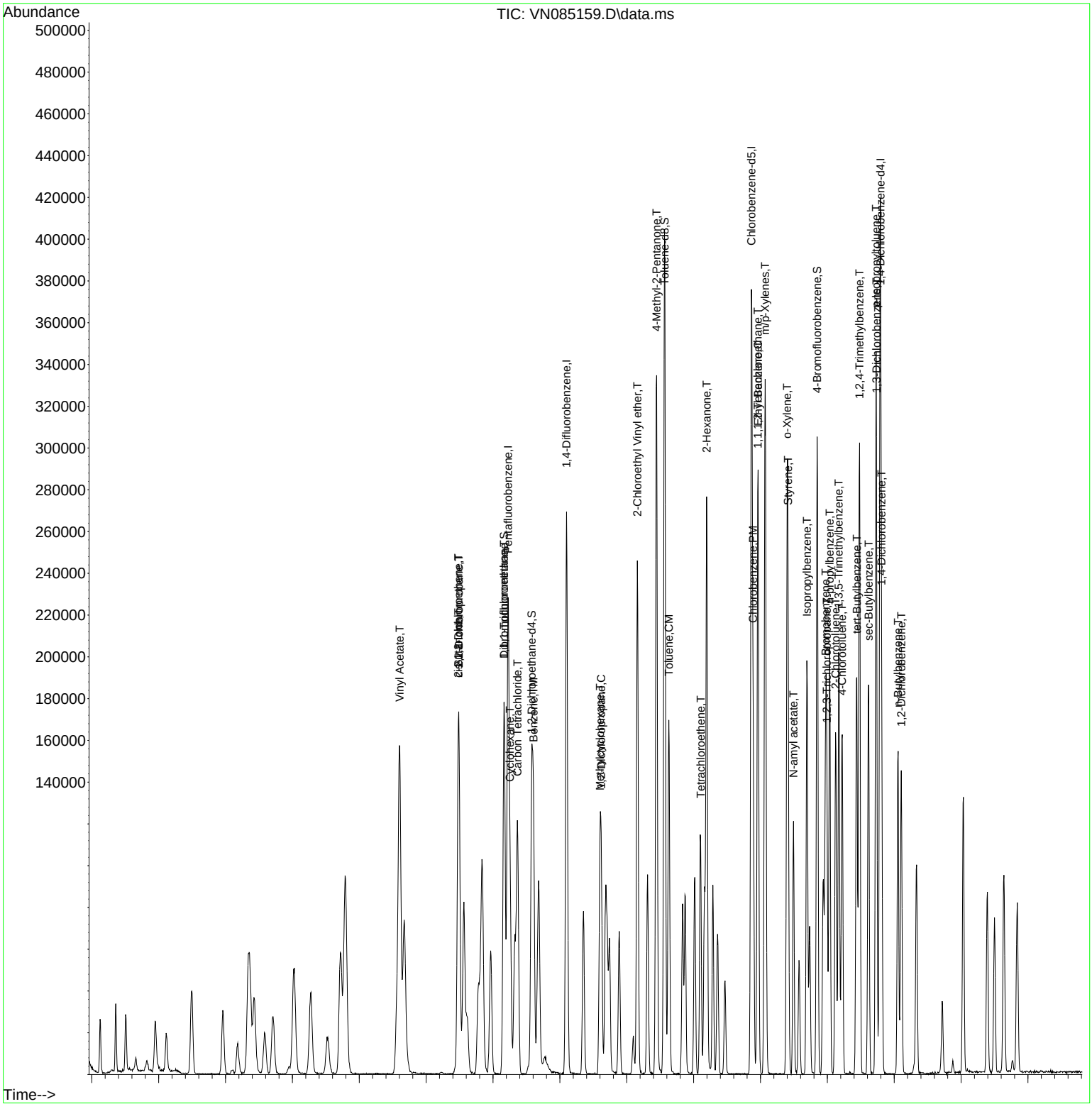
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121024\
Data File : VN085159.D
Acq On : 10 Dec 2024 12:16
Operator : JC\MD
Sample : VN1210WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 11 04:12:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1210WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/11/2024
Supervised By :Mahesh Dadoda 12/11/2024



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

Manual Integration Report

Sequence:	VN112224	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN085005.D	1,2,3-Trichloropropane	JOHN	11/25/2024 9:40:15 AM	MMDadoda	11/25/2024 2:03:01 PM	Peak Integrated by Software
VSTDICCC050	VN085006.D	1,2,3-Trichloropropane	JOHN	11/25/2024 9:40:19 AM	MMDadoda	11/25/2024 2:03:02 PM	Peak Integrated by Software
VSTDICC020	VN085007.D	1,2,3-Trichloropropane	JOHN	11/25/2024 9:40:24 AM	MMDadoda	11/25/2024 2:03:03 PM	Peak Integrated by Software
VSTDICC010	VN085008.D	1,2,3-Trichloropropane	JOHN	11/25/2024 9:40:29 AM	MMDadoda	11/25/2024 2:03:05 PM	Peak Integrated by Software
VSTDICC005	VN085009.D	1,2,3-Trichloropropane	JOHN	11/25/2024 9:40:32 AM	MMDadoda	11/25/2024 2:03:06 PM	Peak Integrated by Software
VSTDICC001	VN085010.D	1,1,2-Trichlorotrifluoroethane	JOHN	11/25/2024 9:40:37 AM	MMDadoda	11/25/2024 2:03:08 PM	Peak Integrated by Software
VSTDICC001	VN085010.D	1,2,3-Trichloropropane	JOHN	11/25/2024 9:40:37 AM	MMDadoda	11/25/2024 2:03:08 PM	Peak Integrated by Software
VSTDICC001	VN085010.D	1,4-Dichlorobenzene	JOHN	11/25/2024 9:40:37 AM	MMDadoda	11/25/2024 2:03:08 PM	Peak Integrated by Software
VSTDICC001	VN085010.D	Chloroethane	JOHN	11/25/2024 9:40:37 AM	MMDadoda	11/25/2024 2:03:08 PM	Peak Integrated by Software
VSTDICC001	VN085010.D	Isopropyl Acetate	JOHN	11/25/2024 9:40:37 AM	MMDadoda	11/25/2024 2:03:08 PM	Peak Integrated by Software
VSTDICC001	VN085010.D	Methyl Acetate	JOHN	11/25/2024 9:40:37 AM	MMDadoda	11/25/2024 2:03:08 PM	Peak Integrated by Software
VSTDICC001	VN085010.D	Methyl tert-butyl Ether	JOHN	11/25/2024 9:40:37 AM	MMDadoda	11/25/2024 2:03:08 PM	Peak Integrated by Software
VSTDICC001	VN085010.D	Methylene Chloride	JOHN	11/25/2024 9:40:37 AM	MMDadoda	11/25/2024 2:03:08 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VN112224	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VN085012.D	1,2,3-Trichloropropane	JOHN	11/25/2024 9:40:43 AM	MMDadoda	11/25/2024 2:03:10 PM	Peak Integrated by Software
VSTDCCC050	VN085020.D	1,2,3-Trichloropropane	JOHN	11/25/2024 9:41:20 AM	MMDadoda	11/25/2024 2:03:24 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vn121024	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN085155.D	1,2,3-Trichloropropane	JOHN	12/11/2024 9:44:54 AM	MMDadoda	12/11/2024 1:14:53 PM	Peak Integrated by Software
VN1210WBS01	VN085158.D	1,2,3-Trichloropropane	JOHN	12/11/2024 9:44:59 AM	MMDadoda	12/11/2024 1:14:54 PM	Peak Integrated by Software
VN1210WBS01	VN085158.D	Allyl chloride	JOHN	12/11/2024 9:44:59 AM	MMDadoda	12/11/2024 1:14:54 PM	Peak Integrated by Software
VN1210WBS01	VN085158.D	trans-1,4-Dichloro-2-but ene	JOHN	12/11/2024 9:44:59 AM	MMDadoda	12/11/2024 1:14:54 PM	Peak Integrated by Software
VN1210WBSD0 1	VN085159.D	1,2,3-Trichloropropane	JOHN	12/11/2024 9:45:03 AM	MMDadoda	12/11/2024 1:14:55 PM	Peak Integrated by Software
VN1210WBSD0 1	VN085159.D	trans-1,4-Dichloro-2-but ene	JOHN	12/11/2024 9:45:03 AM	MMDadoda	12/11/2024 1:14:55 PM	Peak Integrated by Software
VSTDCCC050	VN085172.D	1,2,3-Trichloropropane	JOHN	12/11/2024 9:45:08 AM	MMDadoda	12/11/2024 1:14:57 PM	Peak Integrated by Software
VSTDCCC050	VN085172.D	trans-1,4-Dichloro-2-but ene	JOHN	12/11/2024 9:45:08 AM	MMDadoda	12/11/2024 1:14:57 PM	Peak Integrated by Software

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Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN112224

Review By	John Carlone	Review On	11/25/2024 9:42:43 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/25/2024 2:03:31 PM		
SubDirectory	VN112224	HP Acquire Method		HP Processing Method	82N112224W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131747
Initial Calibration Stds	VP131752,VP131753,VP131754,VP131755,VP131756,VP131757
CCC	VP131751
Internal Standard/PEM	
ICV/I.BLK	VP131758
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085003.D	22 Nov 2024 09:29	JC\MD	Ok
2	VSTDCCC050	VN085004.D	22 Nov 2024 10:40	JC\MD	Not Ok
3	VSTDICC100	VN085005.D	22 Nov 2024 11:22	JC\MD	Ok,M
4	VSTDICCC050	VN085006.D	22 Nov 2024 11:46	JC\MD	Ok,M
5	VSTDICC020	VN085007.D	22 Nov 2024 12:10	JC\MD	Ok,M
6	VSTDICC010	VN085008.D	22 Nov 2024 12:34	JC\MD	Ok,M
7	VSTDICC005	VN085009.D	22 Nov 2024 12:57	JC\MD	Ok,M
8	VSTDICC001	VN085010.D	22 Nov 2024 13:45	JC\MD	Ok,M
9	IBLK	VN085011.D	22 Nov 2024 14:09	JC\MD	Ok
10	VSTDICV050	VN085012.D	22 Nov 2024 16:07	JC\MD	Ok,M
11	VN1122WBL01	VN085013.D	22 Nov 2024 17:05	JC\MD	Ok
12	VN1122WBS01	VN085014.D	22 Nov 2024 18:05	JC\MD	Ok,M
13	VN1122WBSD01	VN085015.D	22 Nov 2024 18:29	JC\MD	Ok,M
14	P4845-21	VN085016.D	22 Nov 2024 19:17	JC\MD	Dilution
15	P4845-22	VN085017.D	22 Nov 2024 19:41	JC\MD	ReRun
16	P4845-23	VN085018.D	22 Nov 2024 20:05	JC\MD	Ok,M
17	P4845-24	VN085019.D	22 Nov 2024 20:29	JC\MD	Ok,M
18	VSTDCCC050	VN085020.D	22 Nov 2024 20:52	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 # VN121024

Review By	John Carlone	Review On	12/11/2024 9:53:10 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/11/2024 1:15:01 PM		
SubDirectory	VN121024	HP Acquire Method		HP Processing Method	82N112224W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132042
Initial Calibration Stds	
CCC	VP132043,VP132044
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085154.D	10 Dec 2024 08:37	JC\MD	Ok
2	VSTDCCC050	VN085155.D	10 Dec 2024 10:17	JC\MD	Ok,M
3	VN1210MBL01	VN085156.D	10 Dec 2024 10:51	JC\MD	Ok
4	VN1210WBL01	VN085157.D	10 Dec 2024 11:15	JC\MD	Ok
5	VN1210WBS01	VN085158.D	10 Dec 2024 11:42	JC\MD	Ok,M
6	VN1210WBSD01	VN085159.D	10 Dec 2024 12:16	JC\MD	Ok,M
7	PB165471TB	VN085160.D	10 Dec 2024 12:40	JC\MD	Ok
8	P5174-02	VN085161.D	10 Dec 2024 13:04	JC\MD	Ok
9	P5196-04	VN085162.D	10 Dec 2024 13:29	JC\MD	Ok
10	P5216-04	VN085163.D	10 Dec 2024 13:53	JC\MD	Ok
11	P5216-08	VN085164.D	10 Dec 2024 14:18	JC\MD	Ok
12	P5216-12	VN085165.D	10 Dec 2024 14:42	JC\MD	Ok
13	P5216-16	VN085166.D	10 Dec 2024 15:06	JC\MD	Ok
14	P5219-05	VN085167.D	10 Dec 2024 15:31	JC\MD	Ok
15	IBLK	VN085168.D	10 Dec 2024 16:04	JC\MD	Ok
16	P5240-01	VN085169.D	10 Dec 2024 16:28	JC\MD	Ok
17	P5240-04	VN085170.D	10 Dec 2024 16:53	JC\MD	Ok
18	P5240-05	VN085171.D	10 Dec 2024 17:17	JC\MD	Ok
19	VSTDCCC050	VN085172.D	10 Dec 2024 17:41	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN112224

Review By	John Carlone	Review On	11/25/2024 9:42:43 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/25/2024 2:03:31 PM		
SubDirectory	VN112224	HP Acquire Method		HP Processing Method	82N112224W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131747
Initial Calibration Stds	VP131752,VP131753,VP131754,VP131755,VP131756,VP131757
CCC	VP131751
Internal Standard/PEM	
ICV/I.BLK	VP131758
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085003.D	22 Nov 2024 09:29		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN085004.D	22 Nov 2024 10:40	Need ICAL	JC\MD	Not Ok
3	VSTDICC100	VSTDICC100	VN085005.D	22 Nov 2024 11:22		JC\MD	Ok,M
4	VSTDICCC050	VSTDICCC050	VN085006.D	22 Nov 2024 11:46		JC\MD	Ok,M
5	VSTDICC020	VSTDICC020	VN085007.D	22 Nov 2024 12:10	Comp. #18 is on Linear Regression	JC\MD	Ok,M
6	VSTDICC010	VSTDICC010	VN085008.D	22 Nov 2024 12:34		JC\MD	Ok,M
7	VSTDICC005	VSTDICC005	VN085009.D	22 Nov 2024 12:57		JC\MD	Ok,M
8	VSTDICC001	VSTDICC001	VN085010.D	22 Nov 2024 13:45		JC\MD	Ok,M
9	IBLK	IBLK	VN085011.D	22 Nov 2024 14:09		JC\MD	Ok
10	VSTDICV050	ICVVN112224	VN085012.D	22 Nov 2024 16:07		JC\MD	Ok,M
11	VN1122WBL01	VN1122WBL01	VN085013.D	22 Nov 2024 17:05		JC\MD	Ok
12	VN1122WBS01	VN1122WBS01	VN085014.D	22 Nov 2024 18:05		JC\MD	Ok,M
13	VN1122WBSD01	VN1122WBSD01	VN085015.D	22 Nov 2024 18:29		JC\MD	Ok,M
14	P4845-21	FSND-MW-13-2024111	VN085016.D	22 Nov 2024 19:17	vial A pH<2 Need 5X	JC\MD	Dilution
15	P4845-22	FSND-MW-11R-202411	VN085017.D	22 Nov 2024 19:41	vial A pH<2 E flage in previous sample	JC\MD	ReRun
16	P4845-23	FSND-MW-18-2024111	VN085018.D	22 Nov 2024 20:05	vial A pH<2	JC\MD	Ok,M
17	P4845-24	FSND-MW-20-2024111	VN085019.D	22 Nov 2024 20:29	vial A pH<2	JC\MD	Ok,M

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN112224

Review By	John Carlone	Review On	11/25/2024 9:42:43 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/25/2024 2:03:31 PM		
SubDirectory	VN112224	HP Acquire Method		HP Processing Method	82N112224W.M

STD. NAME	STD REF.#
Tune/Reschk	VP131747
Initial Calibration Stds	VP131752,VP131753,VP131754,VP131755,VP131756,VP131757
CCC	VP131751
Internal Standard/PEM	
ICV/I.BLK	VP131758
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	VSTDCCC050	VSTDCCC050EC	VN085020.D	22 Nov 2024 20:52		JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN121024

Review By	John Carlone	Review On	12/11/2024 9:53:10 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/11/2024 1:15:01 PM		
SubDirectory	VN121024	HP Acquire Method		HP Processing Method	82N112224W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132042
Initial Calibration Stds	
CCC	VP132043,VP132044
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	VN085154.D	10 Dec 2024 08:37		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN085155.D	10 Dec 2024 10:17	V13516	JC\MD	Ok,M
3	VN1210MBL01	VN1210MBL01	VN085156.D	10 Dec 2024 10:51		JC\MD	Ok
4	VN1210WBL01	VN1210WBL01	VN085157.D	10 Dec 2024 11:15		JC\MD	Ok
5	VN1210WBS01	VN1210WBS01	VN085158.D	10 Dec 2024 11:42		JC\MD	Ok,M
6	VN1210WBSD01	VN1210WBSD01	VN085159.D	10 Dec 2024 12:16		JC\MD	Ok,M
7	PB165471TB	PB165471TB	VN085160.D	10 Dec 2024 12:40		JC\MD	Ok
8	P5174-02	ROLL-OFF-COMP	VN085161.D	10 Dec 2024 13:04	vial A pH#5.0	JC\MD	Ok
9	P5196-04	MH-761	VN085162.D	10 Dec 2024 13:29	vial A pH#5.0	JC\MD	Ok
10	P5216-04	BP-G-6	VN085163.D	10 Dec 2024 13:53	vial A pH#5.0	JC\MD	Ok
11	P5216-08	MH-743	VN085164.D	10 Dec 2024 14:18	vial A pH#5.0	JC\MD	Ok
12	P5216-12	MH-744	VN085165.D	10 Dec 2024 14:42	vial A pH#5.0	JC\MD	Ok
13	P5216-16	TP-12	VN085166.D	10 Dec 2024 15:06	vial A pH#5.0	JC\MD	Ok
14	P5219-05	MR-CAM-013	VN085167.D	10 Dec 2024 15:31	vial A pH#5.0	JC\MD	Ok
15	IBLK	IBLK	VN085168.D	10 Dec 2024 16:04		JC\MD	Ok
16	P5240-01	OF-1	VN085169.D	10 Dec 2024 16:28	vial A pH<2	JC\MD	Ok
17	P5240-04	OF-2	VN085170.D	10 Dec 2024 16:53	vial A pH<2	JC\MD	Ok
18	P5240-05	OF-3	VN085171.D	10 Dec 2024 17:17	vial A pH<2	JC\MD	Ok

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Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN121024

Review By	John Carlone	Review On	12/11/2024 9:53:10 AM		
Supervise By	Mahesh Dadoda	Supervise On	12/11/2024 1:15:01 PM		
SubDirectory	VN121024	HP Acquire Method		HP Processing Method	82N112224W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132042
Initial Calibration Stds	
CCC	VP132043,VP132044
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	VSTDCCC050	VSTDCCC050EC	VN085172.D	10 Dec 2024 17:41		JC\MD	Ok,M

M : Manual Integration

SHIPPING DOCUMENTS

Alliance

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 788-9222
www.chemtech.net

CHAIN OF CUSTODY RECORD

Alliance Project Number: ~~P2929~~ P5240

COC Number:

CLIENT INFORMATION

COMPANY: Atlas Technical Consultants
ADDRESS: 104 E 25th Street
CITY: New York STATE: NY ZIP: 10001
ATTENTION:
PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME: Queens PDC Wilmington WMP
PROJECT #: M242660384 LOCATION: 142-02 20th Ave, Flushing NY
PROJECT MANAGER: David Gustafson
E-MAIL: David-Gustafson@atlas.com
PHONE: 651-635-9050 FAX:

BILLING INFORMATION

BILL TO: SAME PO#
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: _____ DAYS*
HARD COPY: _____ DAYS*
EDD _____ DAYS*
* TO BE APPROVED BY ALLIANCE
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESULTS ONLY
- ☐ RESULTS + QC
- ☐ New Jersey REDUCED
- ☐ New Jersey CLP
- ☐ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other _____
- ☐ EDD Format _____

ANALYSIS

	1	2	3	4	5	6	7	8	9
	Oil + Grease	COD	VOC-BTEX						
PRESERVATIVES	C	C	A						

COMMENTS

<-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	1	2	3	4	5	6	7	8	9
1.	OF-1	WW		X	12/9/24	13:40	5	X	X	X						
2.	OF-2	↓		↓	↓	14:30	↓	X	X	X						
3.	OF-3	↓		↓	↓	15:30	↓	X	X	X						
4.																
5.																
6.																
7.																
8.																
9.																
10.																

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1. Albert Tan	12/9/24 18:00	1. 12-10-24 0953
RELINQUISHED BY	DATE/TIME	RECEIVED BY
2.		2.
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY
3.	12-10-24 1500	3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 3.3C
MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?: _____
Comments:

Page _____ of _____

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
ALLIANCE: ☐ Picked Up ☐ Overnight

Shipment Complete ☐ YES ☐ NO

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE 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 (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5240 ATCE02
Client Name : ATC Group Services LLC
Client Contact : David Gustafson
Invoice Name : ATC Group Services LLC
Invoice Contact : David Gustafson

Order Date : 12/10/2024 1:09:00 PM
Project Name : Queens PDC Wilmington V
Receive DateTime : 12/10/2024 ~~12:00:00 AM~~ 15:00
Purchase Order :

Project Mgr :
Report Type : Results Only
EDD Type : Excel NY
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P5240-01	OF-1	Water	12/09/2024	13:40					
					VOC-BTEX		8260-Low		10 Bus. Days
P5240-04	OF-2	Water	12/09/2024	14:30					
					VOC-BTEX		8260-Low		10 Bus. Days
P5240-05	OF-3	Water	12/09/2024	15:30					
					VOC-BTEX		8260-Low		10 Bus. Days

Relinguished By :
Date / Time : 12-10-24 1520

Received By : Sam
Date / Time : 12/10/24 1520 NFH 4

Storage Area : **VOA Refridgerator Room**