

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021925\
 Data File : VN085787.D
 Acq On : 19 Feb 2025 13:57
 Operator : JC\MD
 Sample : Q1380-12
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VPB192-HYD-20250214

Quant Time: Feb 20 00:48:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:43:32 2025
 Response via : Initial Calibration

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

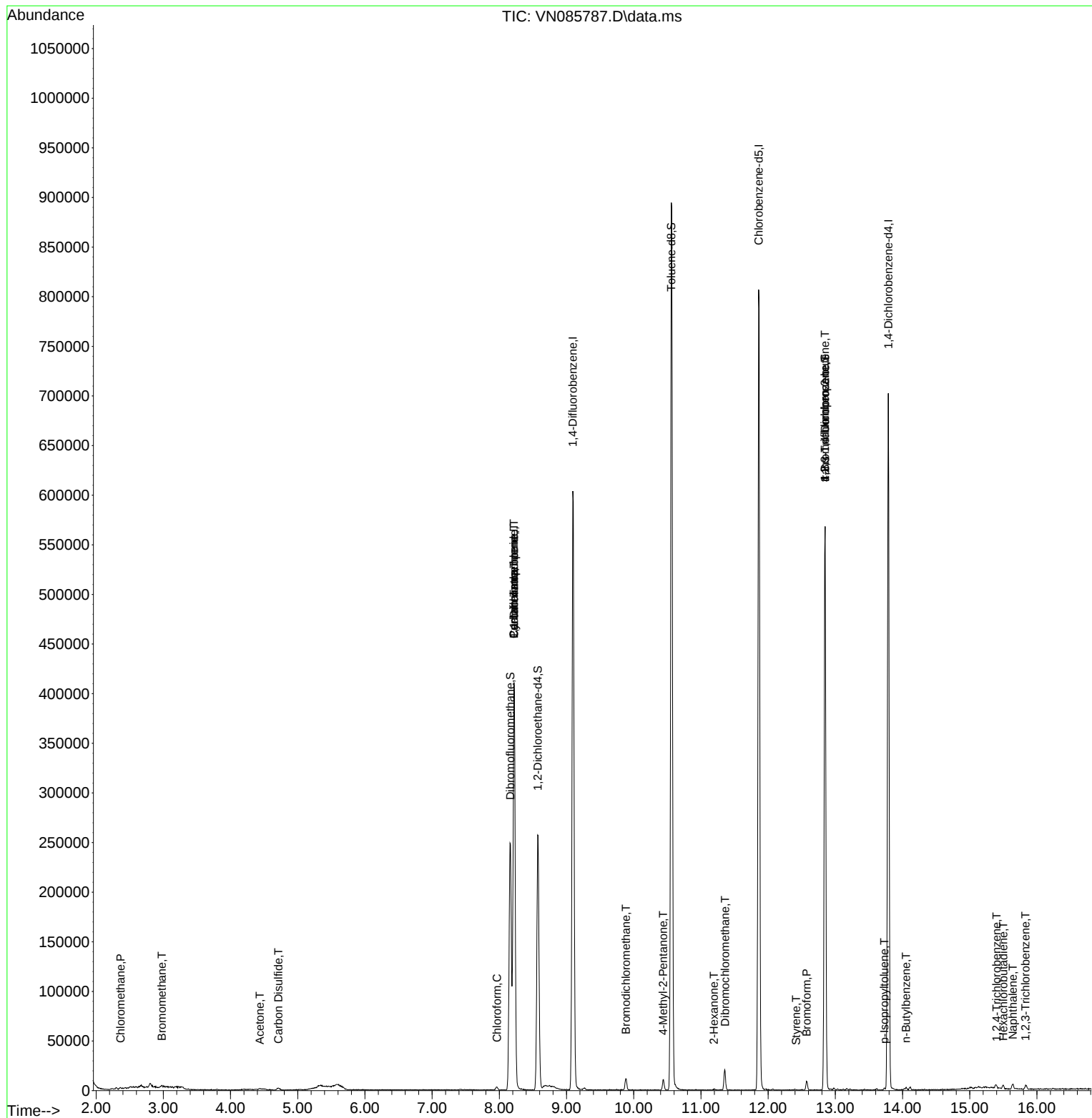
Internal Standards						
1) Pentafluorobenzene	8.218	168	297765	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	540496	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	473230	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	194311	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	212502	55.046	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	110.100%
35) Dibromofluoromethane	8.165	113	186883	52.840	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	105.680%
50) Toluene-d8	10.559	98	648059	50.363	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.720%
62) 4-Bromofluorobenzene	12.847	95	204438	48.221	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	96.440%
Target Compounds						
						Qvalue
3) Chloromethane	2.365	50	892	0.219	ug/l	95
5) Bromomethane	2.977	94	1467	0.533	ug/l	84
16) Acetone	4.436	43	1835	1.502	ug/l #	83
17) Carbon Disulfide	4.712	76	2247	0.232	ug/l #	75
30) Chloroform	7.965	83	3346	0.486	ug/l #	76
31) Cyclohexane	8.218	56	6011	1.090	ug/l #	5
36) 1,1-Dichloropropene	8.218	75	24306	4.856	ug/l #	49
38) Carbon Tetrachloride	8.218	117	32080	5.394	ug/l #	19
43) Isopropyl Acetate	8.688	43	533	Below Cal	#	53
47) Bromodichloromethane	9.883	83	8838	1.512	ug/l #	92
51) 4-Methyl-2-Pentanone	10.435	43	7409	1.866	ug/l	90
59) 2-Hexanone	11.194	43	945	0.346	ug/l	83
60) Dibromochloromethane	11.359	129	11677	2.682	ug/l	98
70) Styrene	12.418	104	349	0.618	ug/l #	41
71) Bromoform	12.571	173	4524	1.562	ug/l #	95
76) 1,2,3-Trichloropropane	12.847	75	100588	23.304	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	100588	67.996	ug/l #	13
86) p-Isopropyltoluene	13.729	119	450	0.666	ug/l #	63
89) n-Butylbenzene	14.053	91	1938	0.212	ug/l	91
93) 1,2,4-Trichlorobenzene	15.400	180	1732	0.561	ug/l	98
94) Hexachlorobutadiene	15.500	225	1032	0.550	ug/l	87
95) Naphthalene	15.641	128	6690	0.789	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.829	180	2280	0.736	ug/l	94

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

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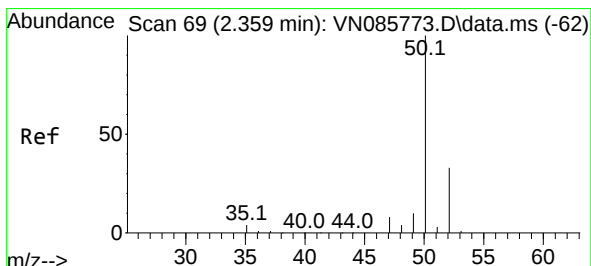
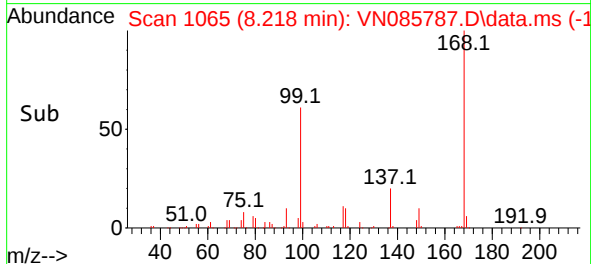
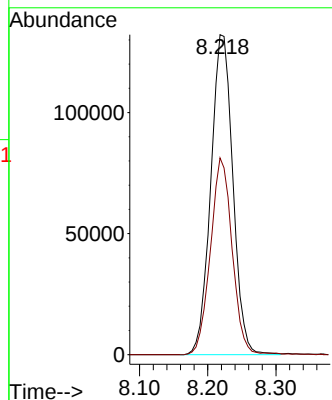
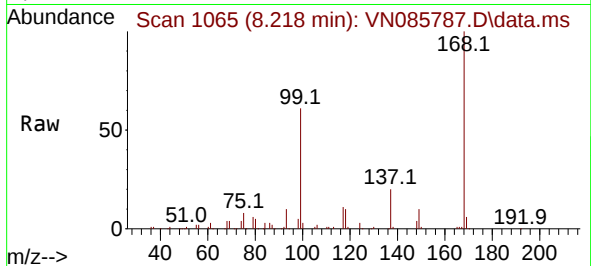




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN085787.D
Acq: 19 Feb 2025 13:57

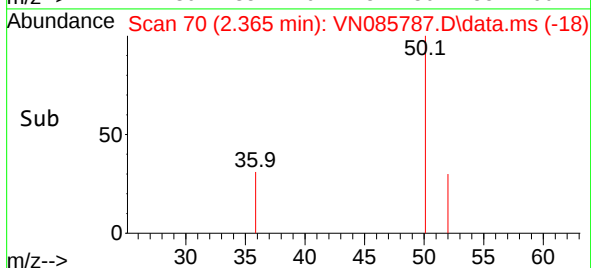
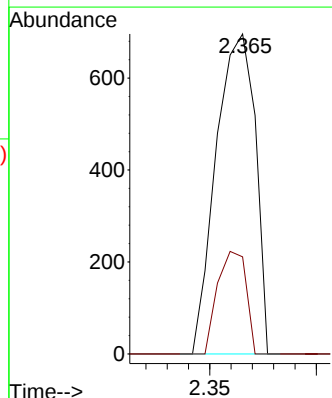
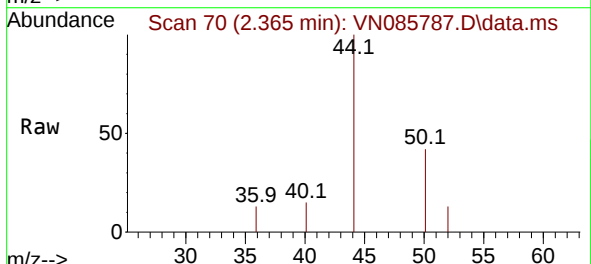
Instrument :
MSVOA_N
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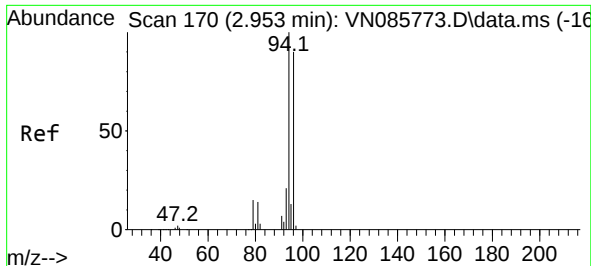
Tgt Ion:168 Resp: 297765
Ion Ratio Lower Upper
168 100
99 61.5 47.9 71.9



#3
Chloromethane
Concen: 0.219 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN085787.D
Acq: 19 Feb 2025 13:57

Tgt Ion: 50 Resp: 892
Ion Ratio Lower Upper
50 100
52 30.3 26.7 40.1

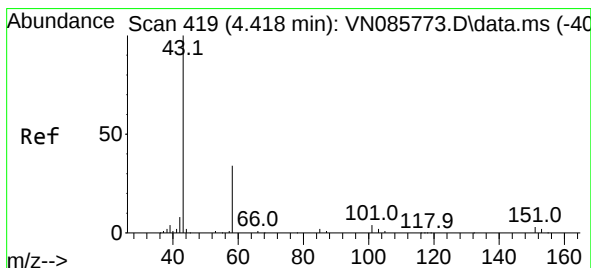
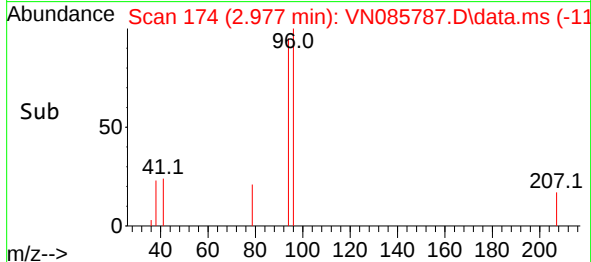
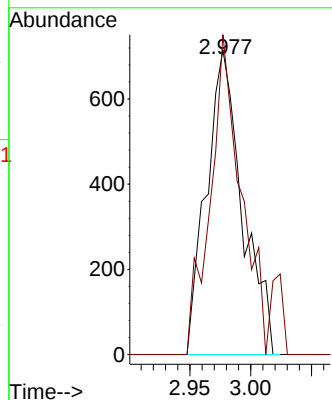
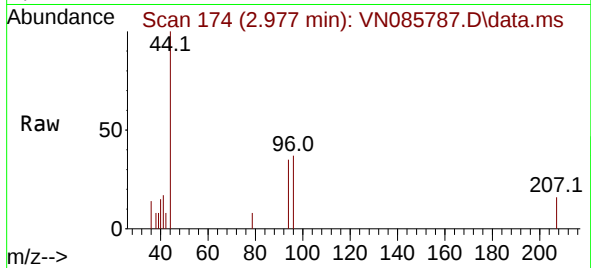




#5
Bromomethane
Concen: 0.533 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN085787.D
Acq: 19 Feb 2025 13:57

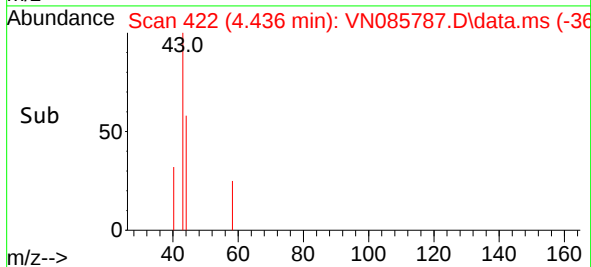
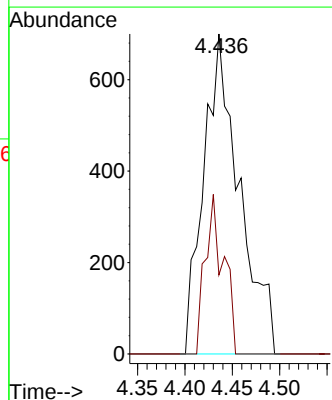
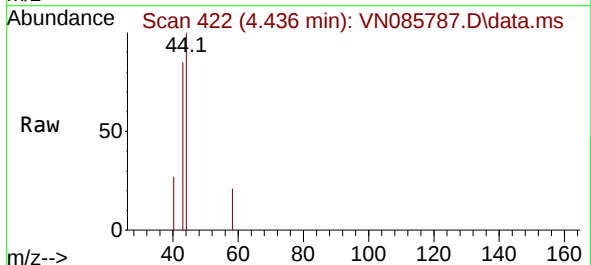
Instrument :
MSVOA_N
ClientSampleId :
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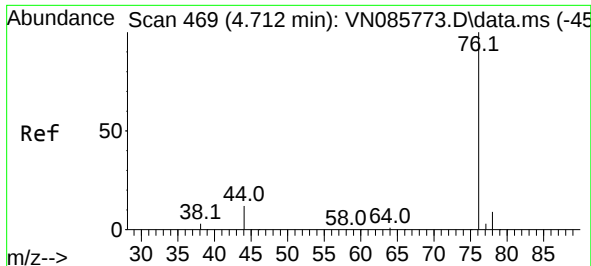
Tgt Ion: 94 Resp: 1467
Ion Ratio Lower Upper
94 100
96 105.0 71.7 107.5



#16
Acetone
Concen: 1.502 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.018 min
Lab File: VN085787.D
Acq: 19 Feb 2025 13:57

Tgt Ion: 43 Resp: 1835
Ion Ratio Lower Upper
43 100
58 24.7 27.5 41.3#

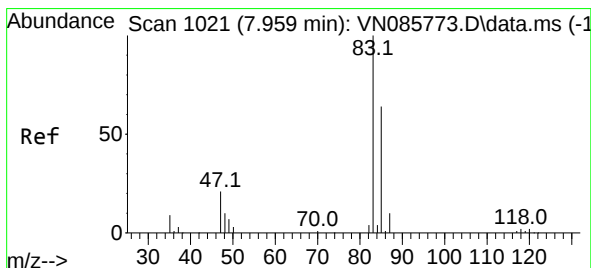
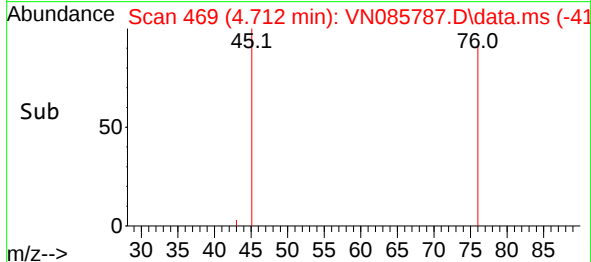
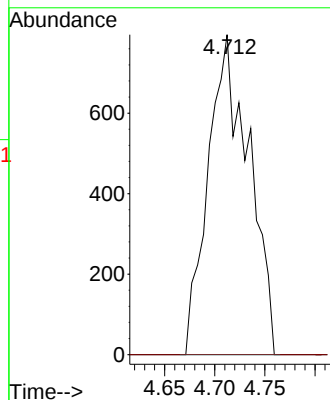
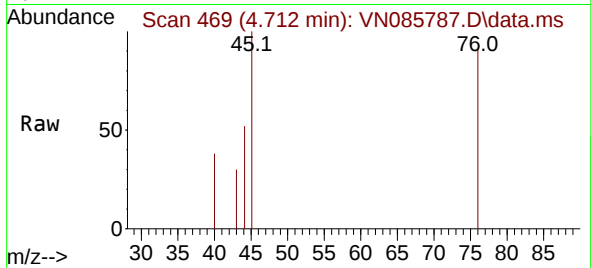




#17
Carbon Disulfide
Concen: 0.232 ug/l
RT: 4.712 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN085787.D
Acq: 19 Feb 2025 13:57

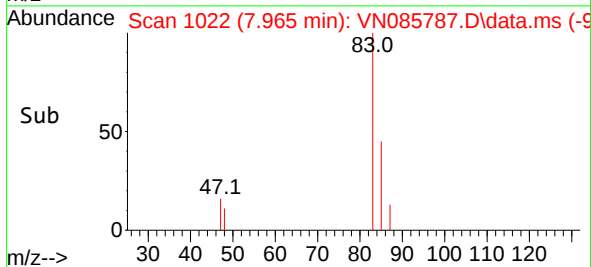
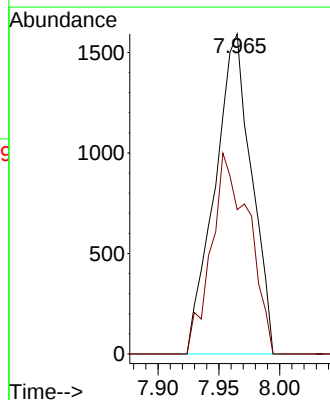
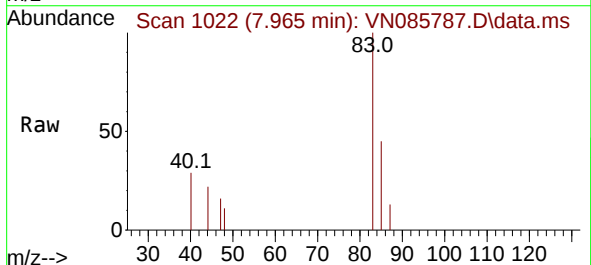
Instrument :
MSVOA_N
ClientSampleId :
VPB192-HYD-20250214

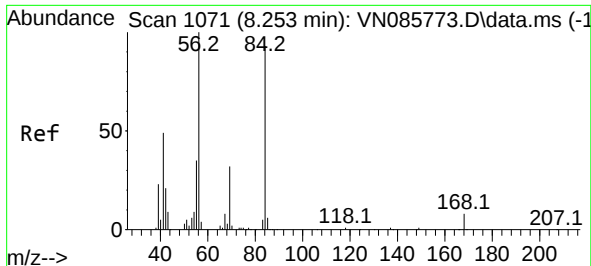
Tgt Ion: 76 Resp: 2247
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#30
Chloroform
Concen: 0.486 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.006 min
Lab File: VN085787.D
Acq: 19 Feb 2025 13:57

Tgt Ion: 83 Resp: 3346
Ion Ratio Lower Upper
83 100
85 45.1 50.9 76.3#

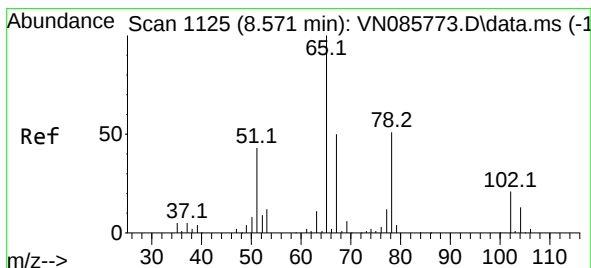
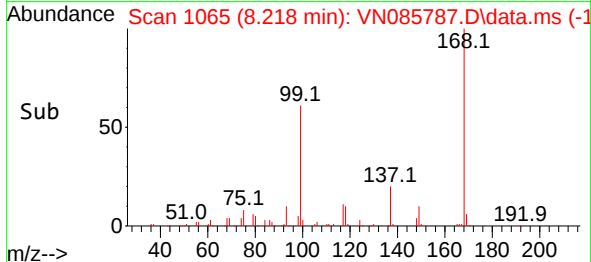
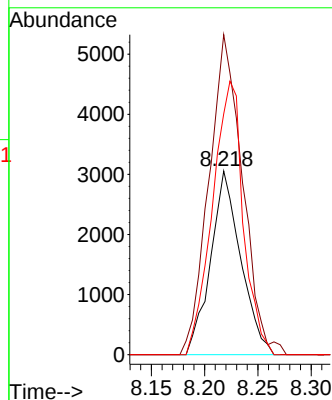
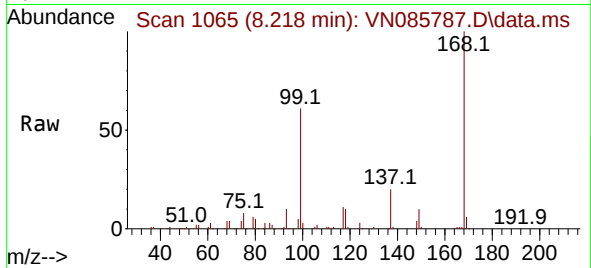




#31
Cyclohexane
Concen: 1.090 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN085787.D
Acq: 19 Feb 2025 13:57

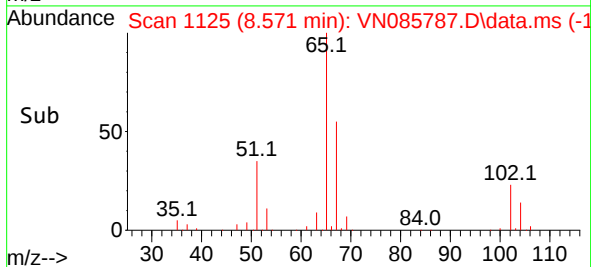
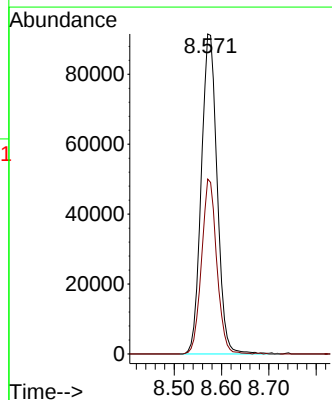
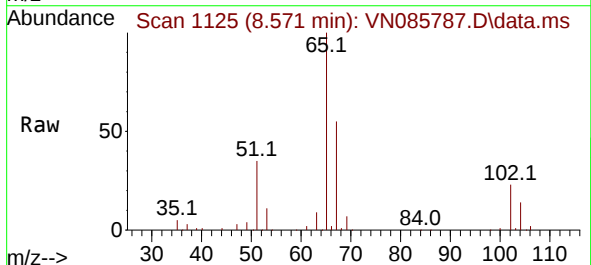
Instrument :
MSVOA_N
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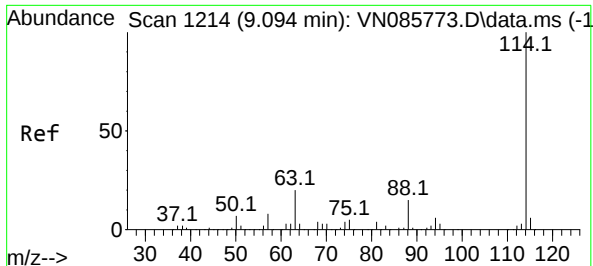
Tgt Ion: 56 Resp: 6011
Ion Ratio Lower Upper
56 100
69 174.2 25.8 38.6#
84 131.1 74.5 111.7#



#33
1,2-Dichloroethane-d4
Concen: 55.046 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. 0.000 min
Lab File: VN085787.D
Acq: 19 Feb 2025 13:57

Tgt Ion: 65 Resp: 212502
Ion Ratio Lower Upper
65 100
67 52.5 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN085787.D

Acq: 19 Feb 2025 13:57

Instrument :

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ClientSampleId :

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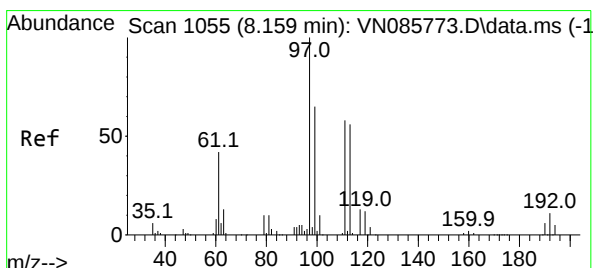
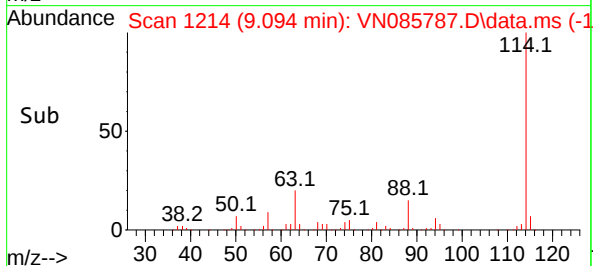
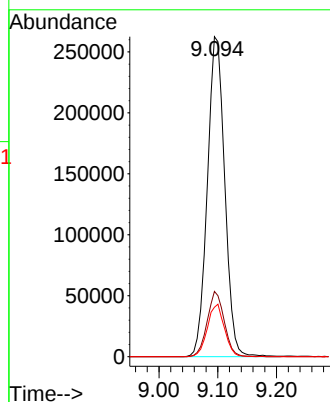
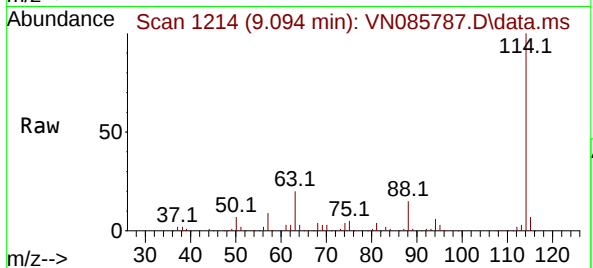
Tgt Ion:114 Resp: 540496

Ion Ratio Lower Upper

114 100

63 20.4 0.0 39.2

88 15.5 0.0 30.0



#35

Dibromofluoromethane

Concen: 52.840 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085787.D

Acq: 19 Feb 2025 13:57

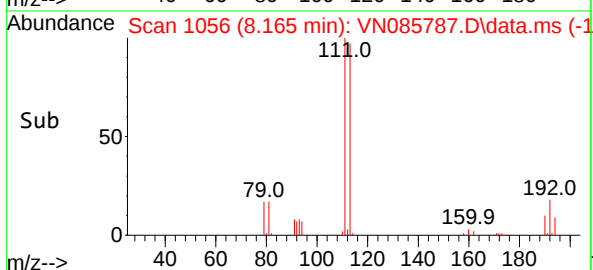
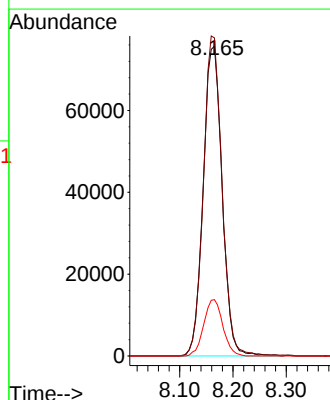
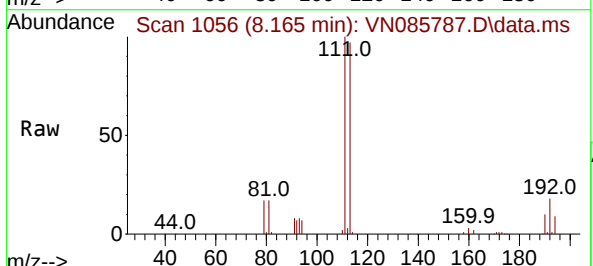
Tgt Ion:113 Resp: 186883

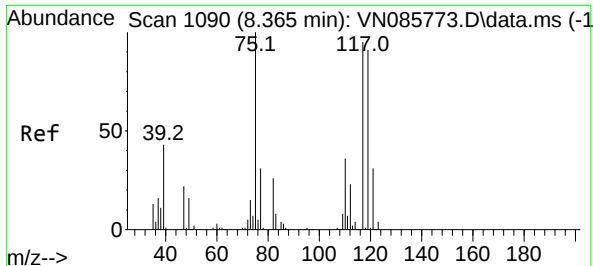
Ion Ratio Lower Upper

113 100

111 101.8 82.2 123.4

192 18.3 14.7 22.1





#36

1,1-Dichloropropene

Concen: 4.856 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN085787.D

Acq: 19 Feb 2025 13:57

Instrument :

MSVOA_N

ClientSampleId :

VPB192-HYD-20250214

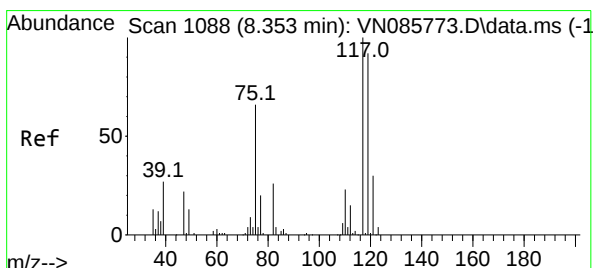
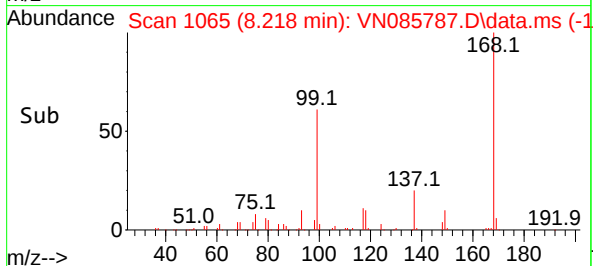
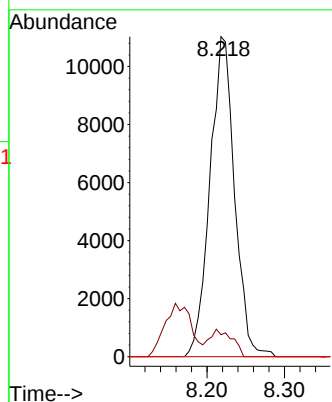
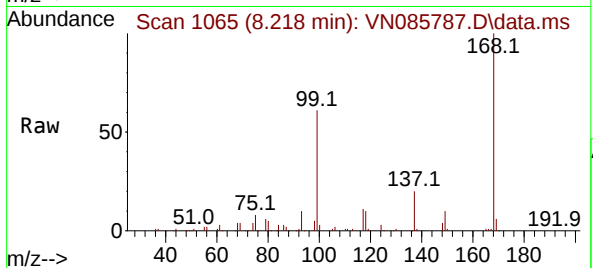
Tgt Ion: 75 Resp: 24306

Ion Ratio Lower Upper

75 100

110 7.8 17.3 52.0#

77 0.0 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 5.394 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.135 min

Lab File: VN085787.D

Acq: 19 Feb 2025 13:57

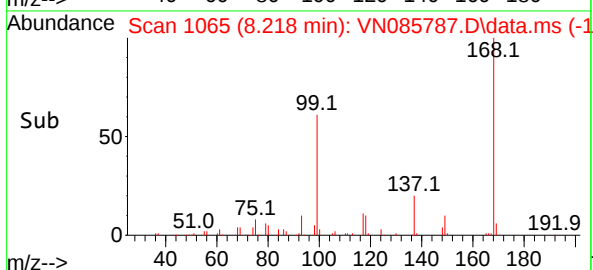
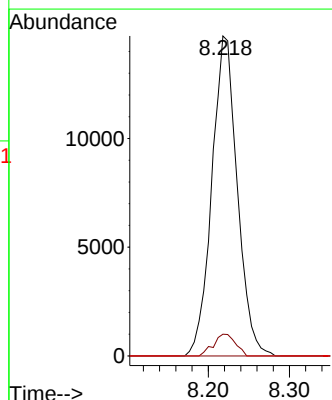
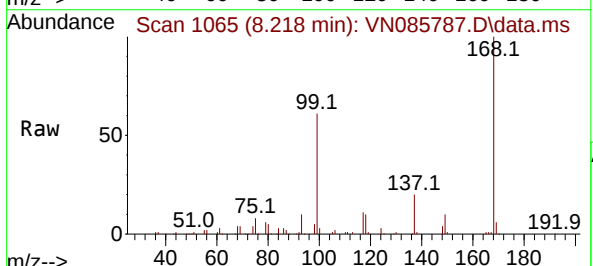
Tgt Ion: 117 Resp: 32080

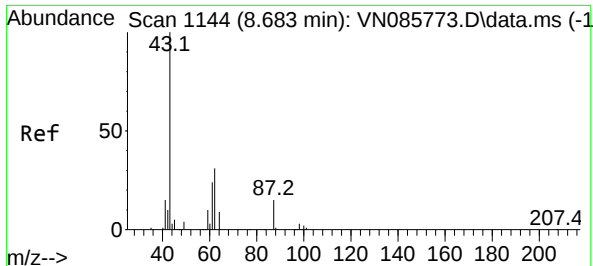
Ion Ratio Lower Upper

117 100

119 6.8 73.8 110.6#

121 0.0 24.3 36.5#





#43

Isopropyl Acetate

Concen: Below Cal

RT: 8.688 min Scan# 1144

Delta R.T. 0.005 min

Lab File: VN085787.D

Acq: 19 Feb 2025 13:57

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MSVOA_N

ClientSampleId :

VPB192-HYD-20250214

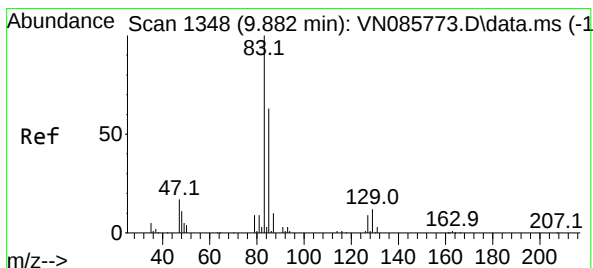
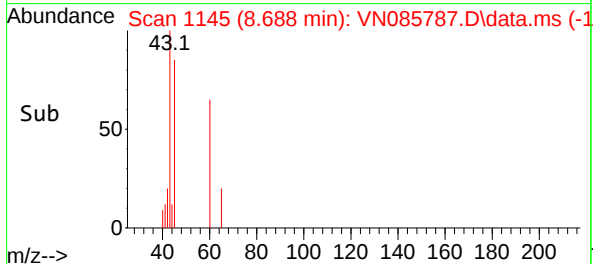
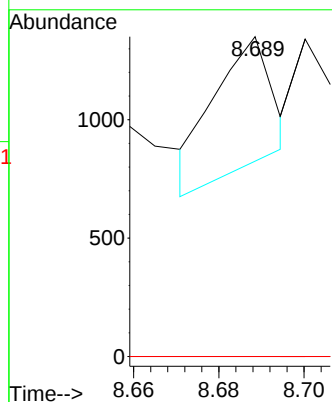
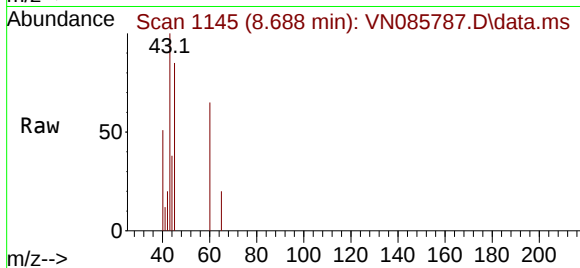
Tgt Ion: 43 Resp: 533

Ion Ratio Lower Upper

43 100

61 0.0 22.6 34.0#

87 0.0 11.8 17.8#



#47

Bromodichloromethane

Concen: 1.512 ug/l

RT: 9.883 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VN085787.D

Acq: 19 Feb 2025 13:57

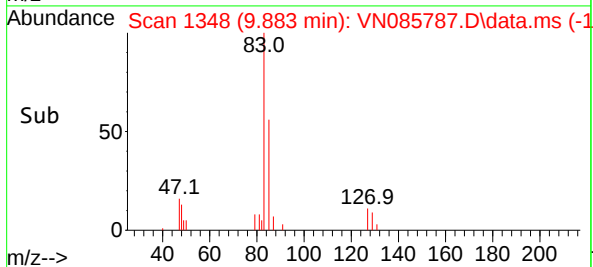
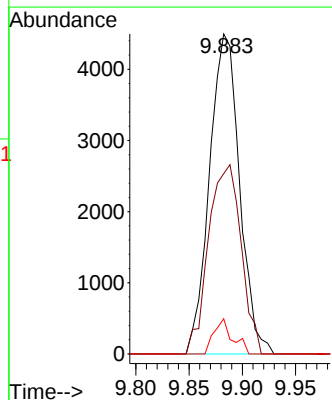
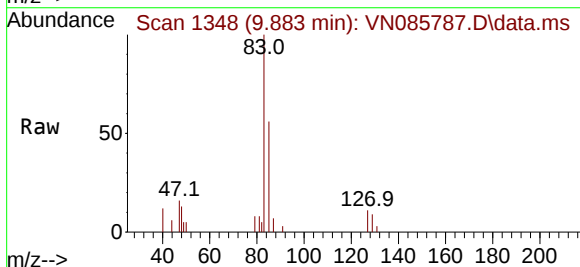
Tgt Ion: 83 Resp: 8838

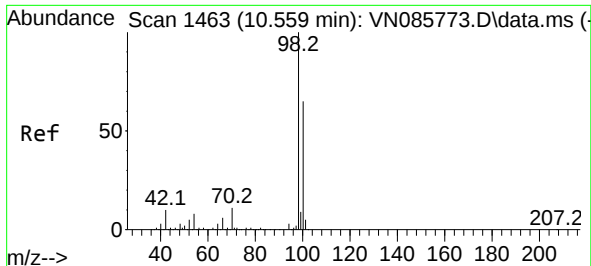
Ion Ratio Lower Upper

83 100

85 56.3 50.5 75.7

127 11.0 7.2 10.8#

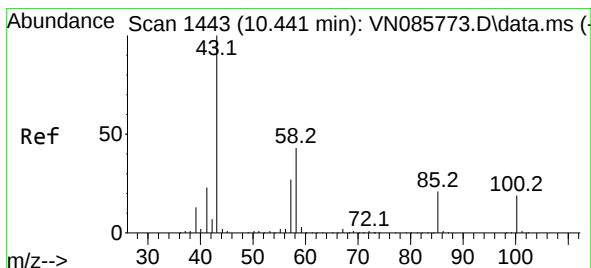
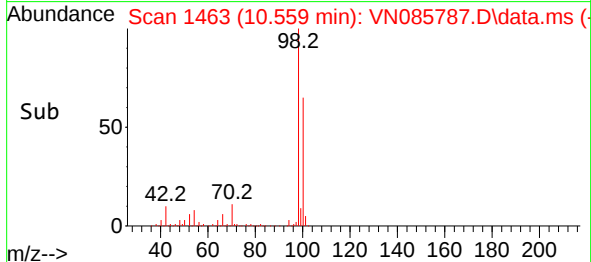
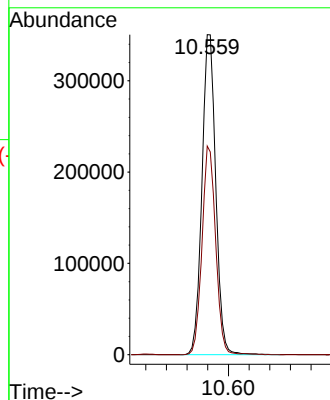
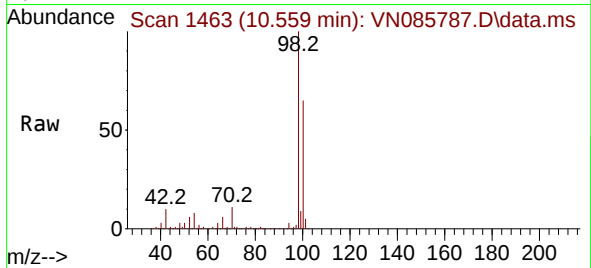




#50
Toluene-d8
Concen: 50.363 ug/l
RT: 10.559 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VN085787.D
Acq: 19 Feb 2025 13:57

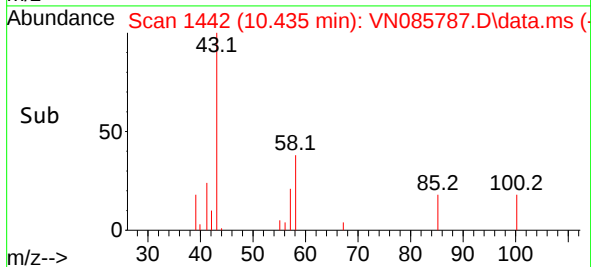
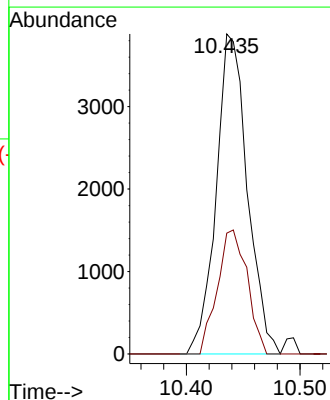
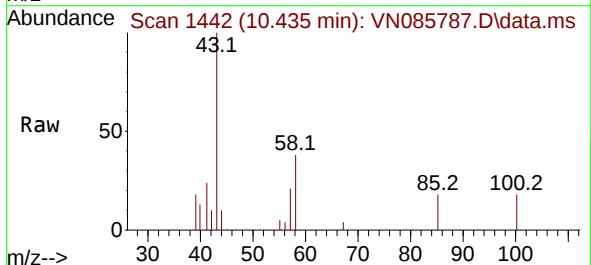
Instrument :
MSVOA_N
ClientSampleId :
VPB192-HYD-20250214

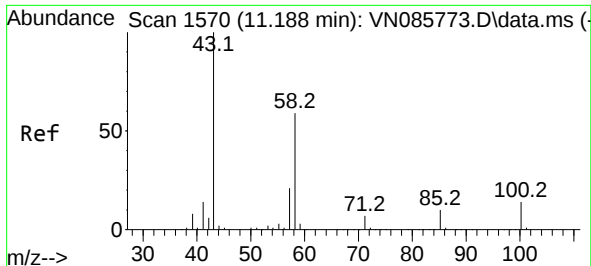
Tgt Ion: 98 Resp: 648059
Ion Ratio Lower Upper
98 100
100 64.5 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 1.866 ug/l
RT: 10.435 min Scan# 1442
Delta R.T. -0.006 min
Lab File: VN085787.D
Acq: 19 Feb 2025 13:57

Tgt Ion: 43 Resp: 7409
Ion Ratio Lower Upper
43 100
58 37.0 34.6 52.0

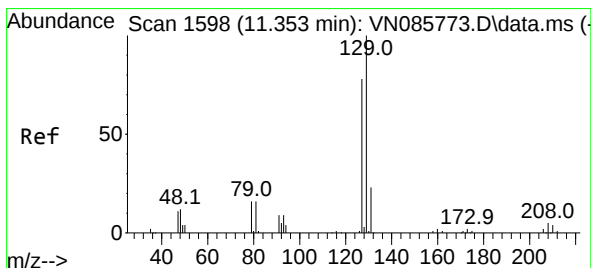
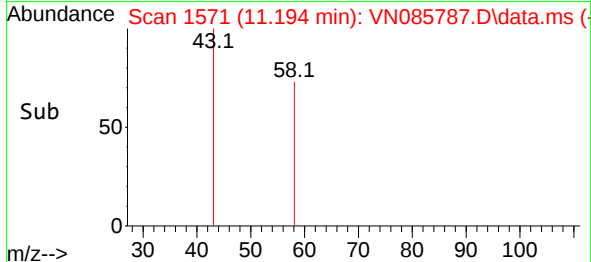
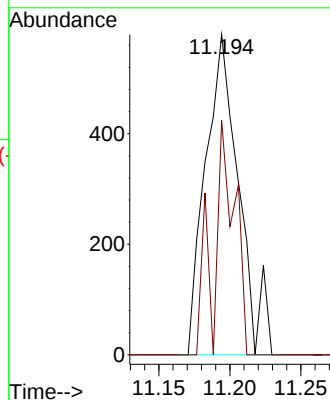
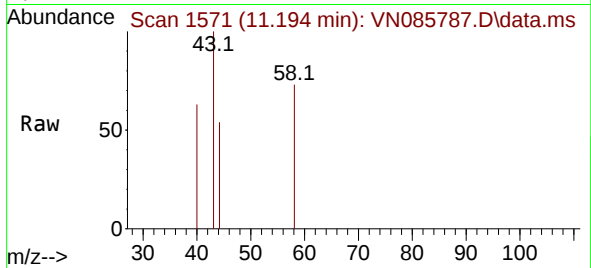




#59
2-Hexanone
Concen: 0.346 ug/l
RT: 11.194 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085787.D
Acq: 19 Feb 2025 13:57

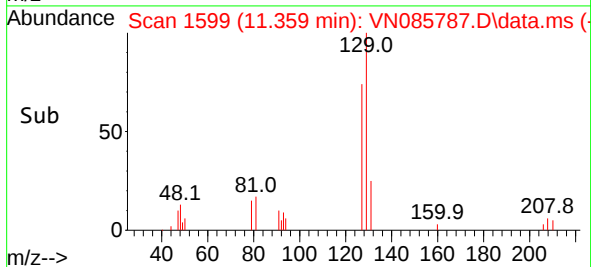
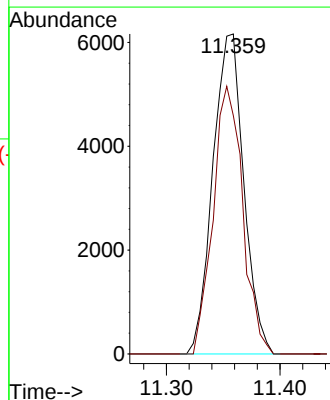
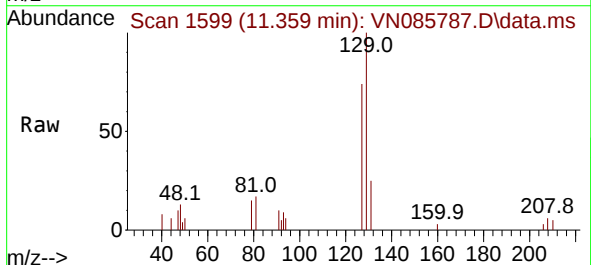
Instrument :
MSVOA_N
ClientSampleId :
VPB192-HYD-20250214

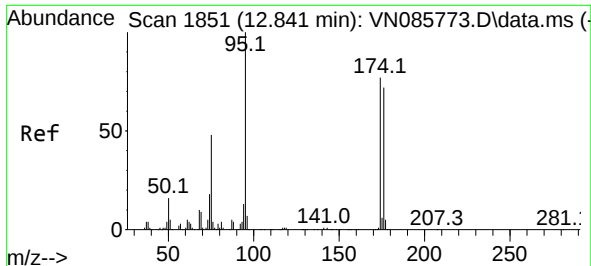
Tgt Ion: 43 Resp: 945
Ion Ratio Lower Upper
43 100
58 46.9 29.8 89.5



#60
Dibromochloromethane
Concen: 2.682 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VN085787.D
Acq: 19 Feb 2025 13:57

Tgt Ion:129 Resp: 11677
Ion Ratio Lower Upper
129 100
127 79.8 39.1 117.5

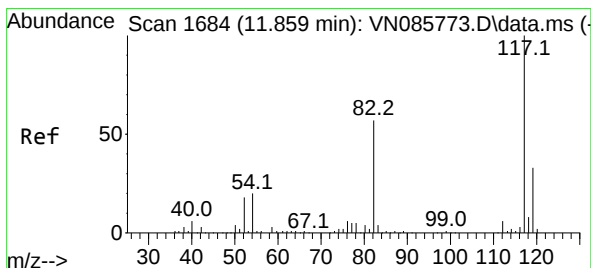
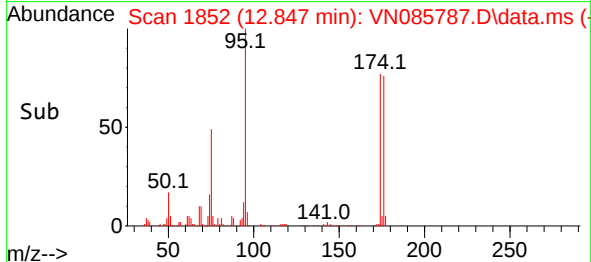
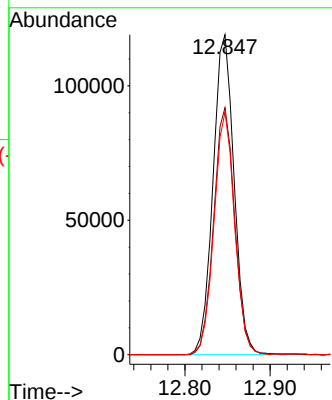
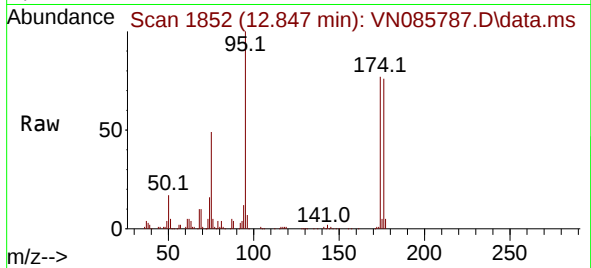




#62
4-Bromofluorobenzene
Concen: 48.221 ug/l
RT: 12.847 min Scan# 1851
Delta R.T. 0.006 min
Lab File: VN085787.D
Acq: 19 Feb 2025 13:57

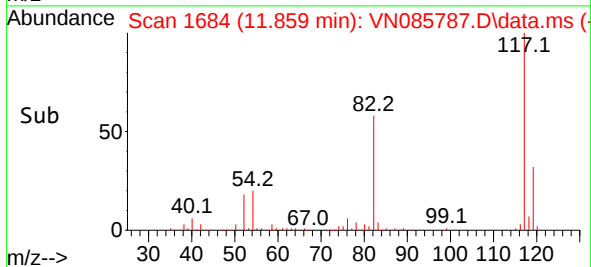
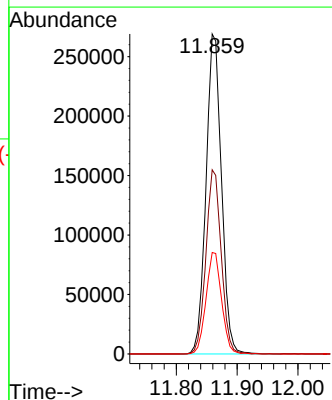
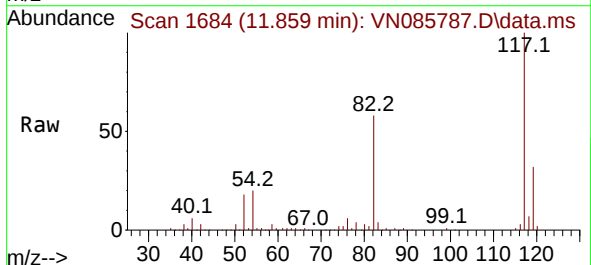
Instrument :
MSVOA_N
ClientSampleId :
VPB192-HYD-20250214

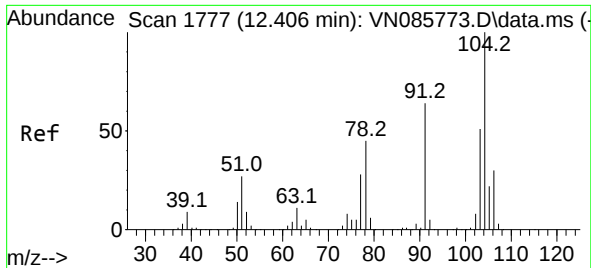
Tgt Ion: 95 Resp: 204438
Ion Ratio Lower Upper
95 100
174 77.3 0.0 152.4
176 74.2 0.0 146.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.859 min Scan# 1684
Delta R.T. 0.000 min
Lab File: VN085787.D
Acq: 19 Feb 2025 13:57

Tgt Ion: 117 Resp: 473230
Ion Ratio Lower Upper
117 100
82 57.5 45.7 68.5
119 31.7 26.2 39.2

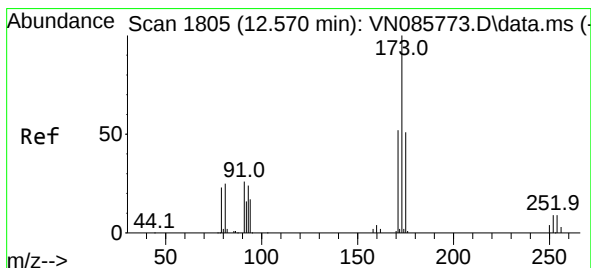
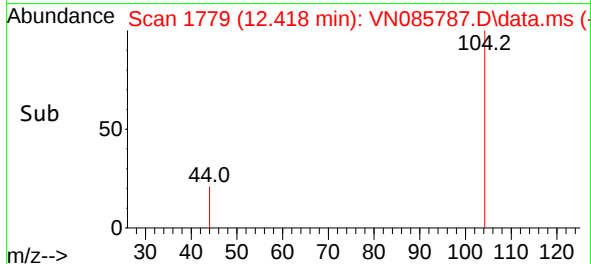
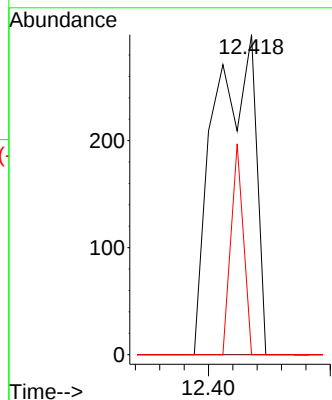
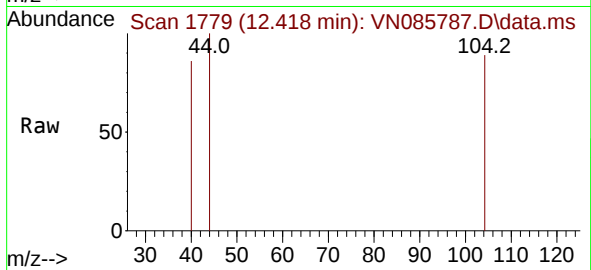




#70
Styrene
Concen: 0.618 ug/l
RT: 12.418 min Scan# 1779
Delta R.T. 0.012 min
Lab File: VN085787.D
Acq: 19 Feb 2025 13:57

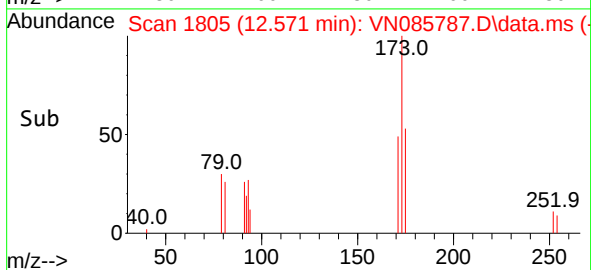
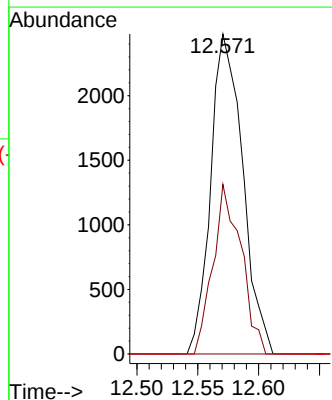
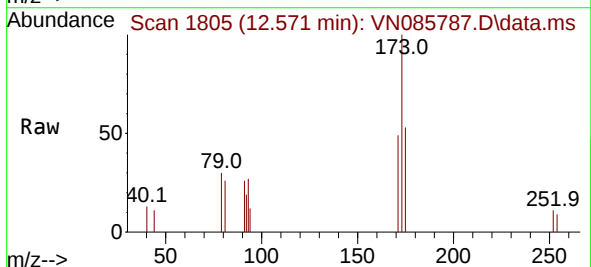
Instrument :
MSVOA_N
ClientSampleId :
VPB192-HYD-20250214

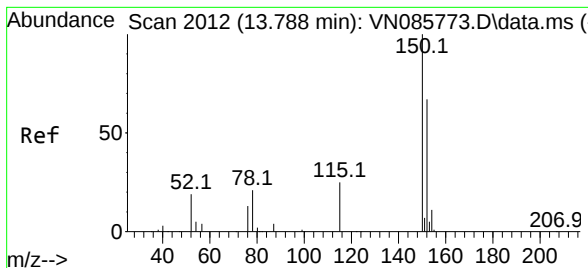
Tgt Ion:104 Resp: 349
Ion Ratio Lower Upper
104 100
78 0.0 39.0 58.6#
103 20.1 43.3 64.9#



#71
Bromoform
Concen: 1.562 ug/l
RT: 12.571 min Scan# 1805
Delta R.T. 0.000 min
Lab File: VN085787.D
Acq: 19 Feb 2025 13:57

Tgt Ion:173 Resp: 4524
Ion Ratio Lower Upper
173 100
175 46.7 25.1 75.4
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN085787.D

Acq: 19 Feb 2025 13:57

Instrument :

MSVOA_N

ClientSampleId :

VPB192-HYD-20250214

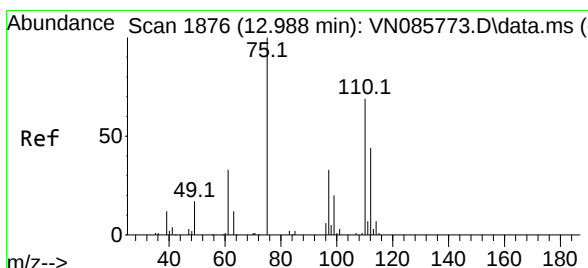
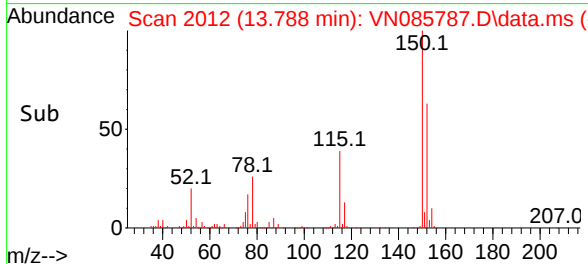
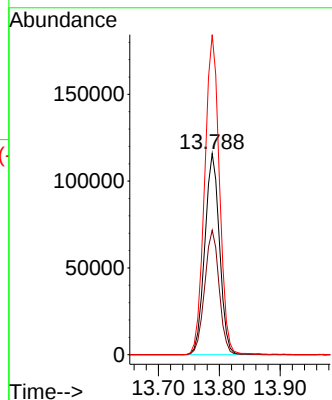
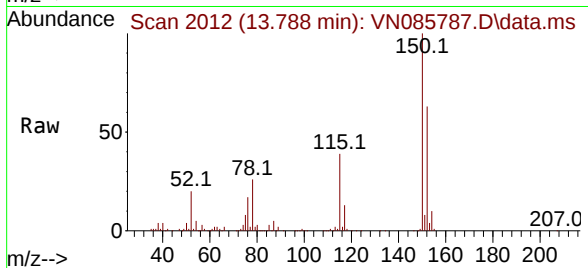
Tgt Ion:152 Resp: 194311

Ion Ratio Lower Upper

152 100

115 61.0 30.4 91.3

150 159.9 0.0 345.4



#76

1,2,3-Trichloropropane

Concen: 23.304 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN085787.D

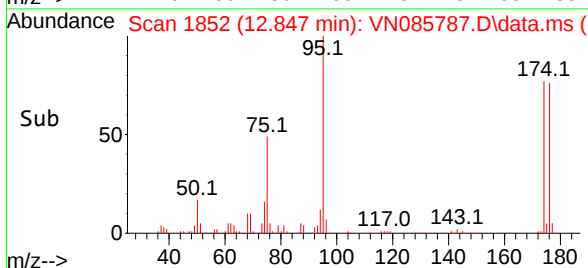
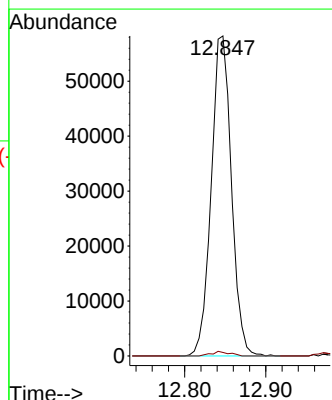
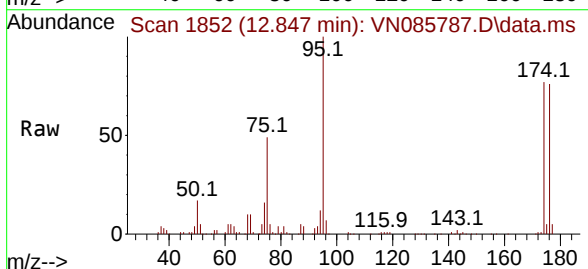
Acq: 19 Feb 2025 13:57

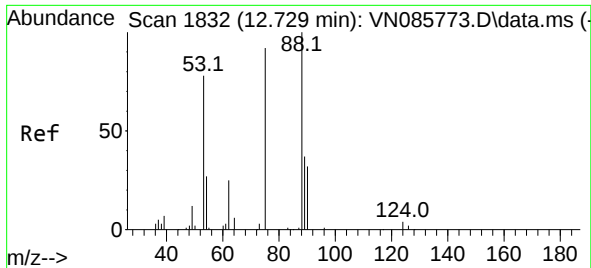
Tgt Ion: 75 Resp: 100588

Ion Ratio Lower Upper

75 100

77 1.3 100.0 300.0#

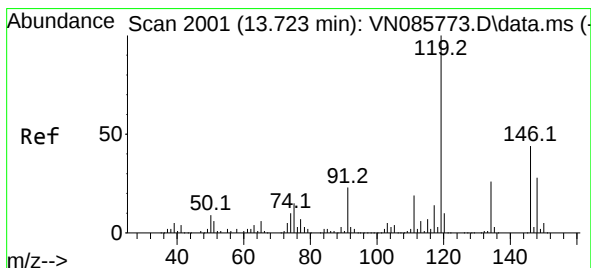
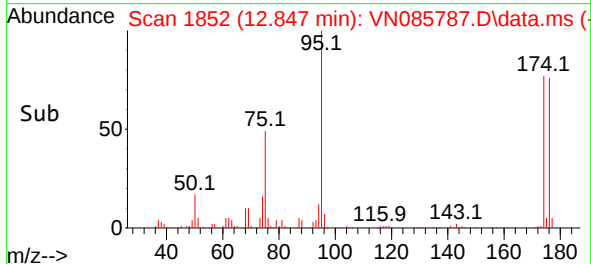
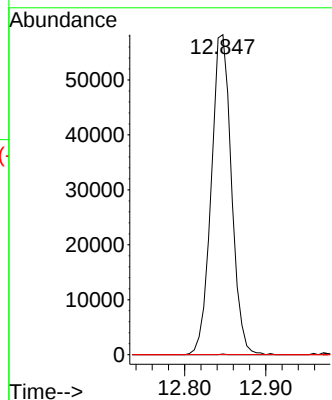
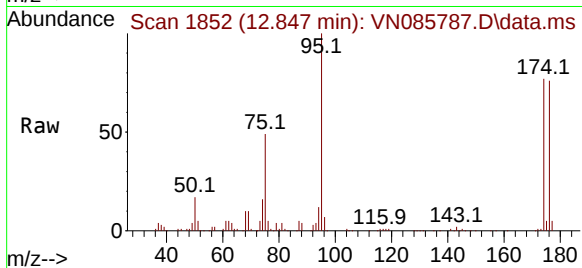




#81
trans-1,4-Dichloro-2-butene
Concen: 67.996 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.118 min
Lab File: VN085787.D
Acq: 19 Feb 2025 13:57

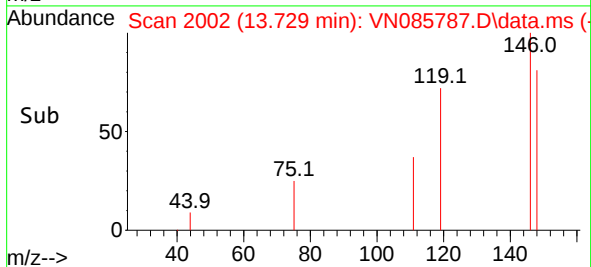
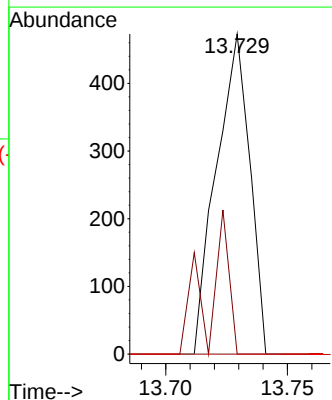
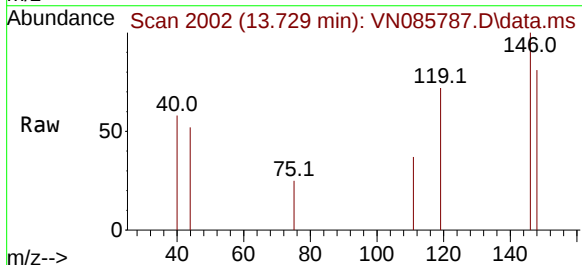
Instrument :
MSVOA_N
ClientSampleId :
VPB192-HYD-20250214

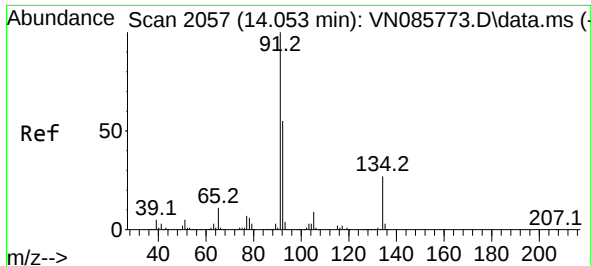
Tgt Ion: 75 Resp: 100588
Ion Ratio Lower Upper
75 100
53 0.1 74.2 111.4#
89 0.0 34.9 52.3#



#86
p-Isopropyltoluene
Concen: 0.666 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VN085787.D
Acq: 19 Feb 2025 13:57

Tgt Ion: 119 Resp: 450
Ion Ratio Lower Upper
119 100
134 11.8 13.0 39.0#
91 0.0 11.7 35.1#





#89

n-Butylbenzene

Concen: 0.212 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN085787.D

Acq: 19 Feb 2025 13:57

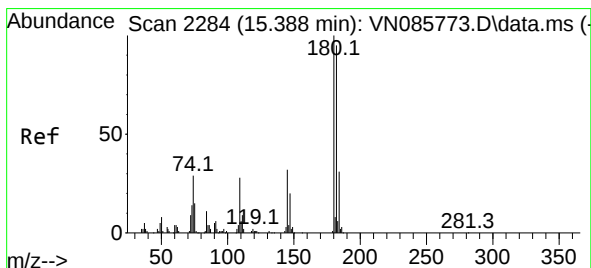
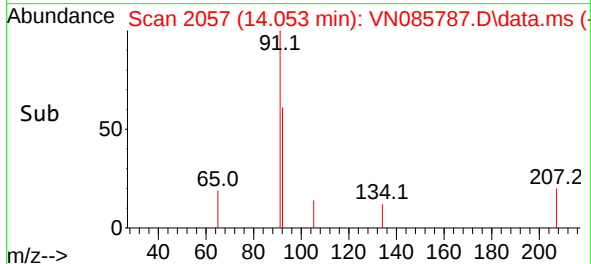
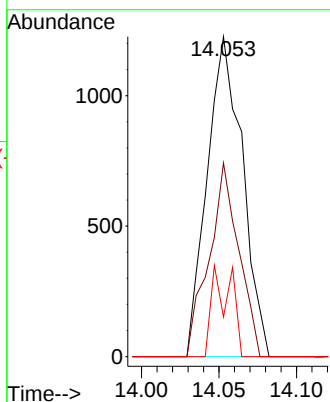
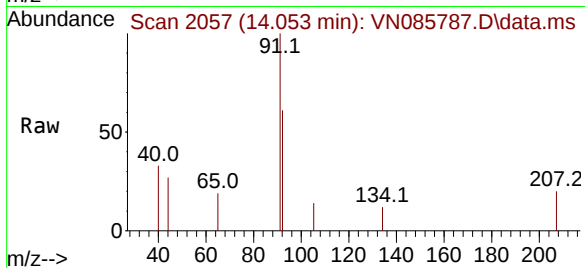
Instrument :

MSVOA_N

ClientSampleId :

VPB192-HYD-20250214

Tgt Ion:	91	Resp:	1938
Ion	Ratio	Lower	Upper
91	100		
92	51.1	27.1	81.3
134	15.3	12.7	38.1



#93

1,2,4-Trichlorobenzene

Concen: 0.561 ug/l

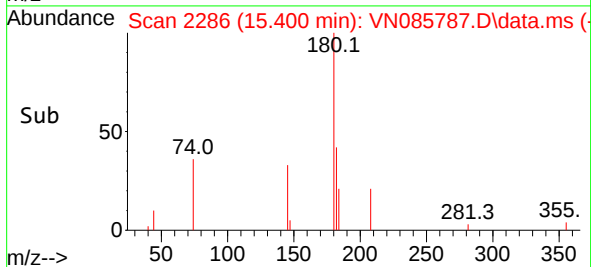
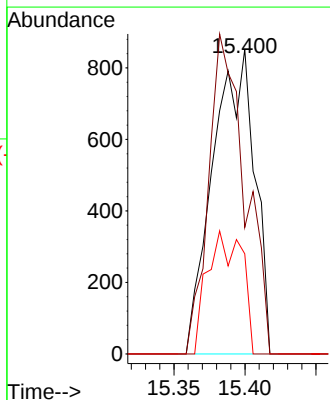
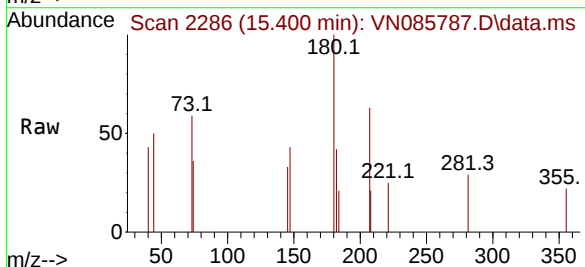
RT: 15.400 min Scan# 2286

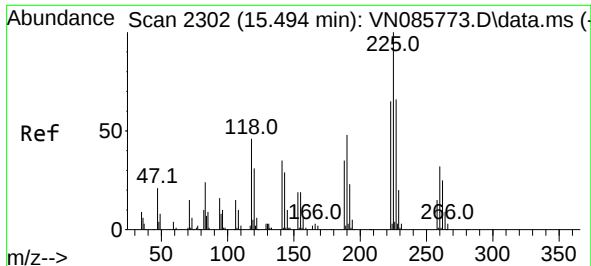
Delta R.T. 0.012 min

Lab File: VN085787.D

Acq: 19 Feb 2025 13:57

Tgt Ion:	180	Resp:	1732
Ion	Ratio	Lower	Upper
180	100		
182	92.1	47.3	141.9
145	33.6	16.2	48.5

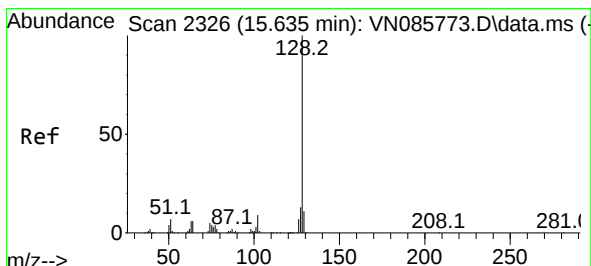
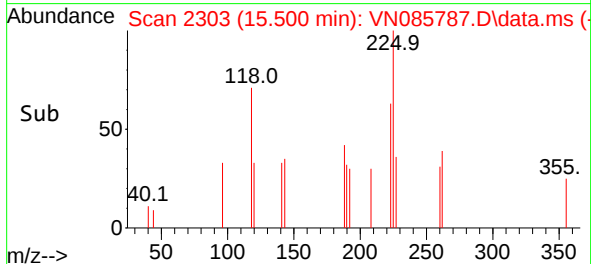
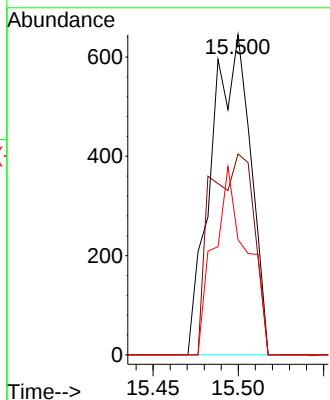
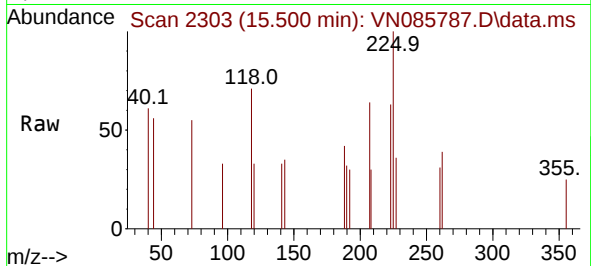




#94
Hexachlorobutadiene
Concen: 0.550 ug/l
RT: 15.500 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN085787.D
Acq: 19 Feb 2025 13:57

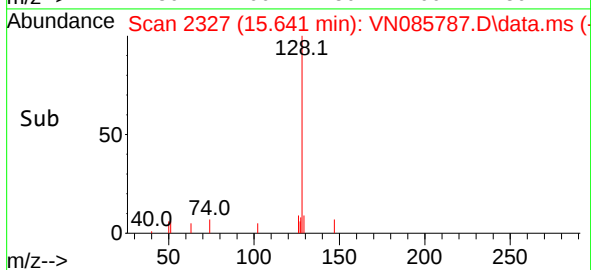
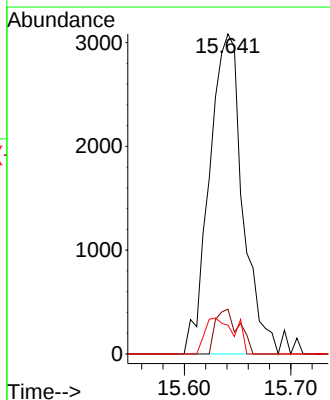
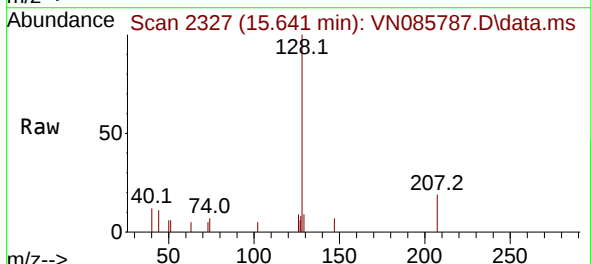
Instrument :
MSVOA_N
ClientSampleId :
VPB192-HYD-20250214

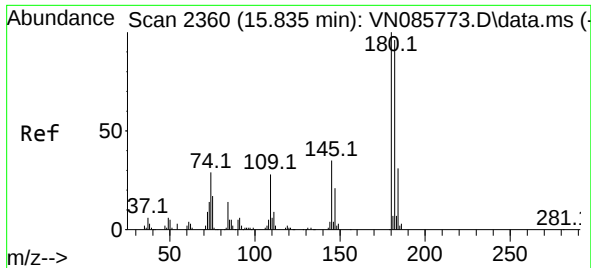
Tgt Ion:225 Resp: 1032
Ion Ratio Lower Upper
225 100
223 69.2 31.9 95.5
227 49.4 32.2 96.6



#95
Naphthalene
Concen: 0.789 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.006 min
Lab File: VN085787.D
Acq: 19 Feb 2025 13:57

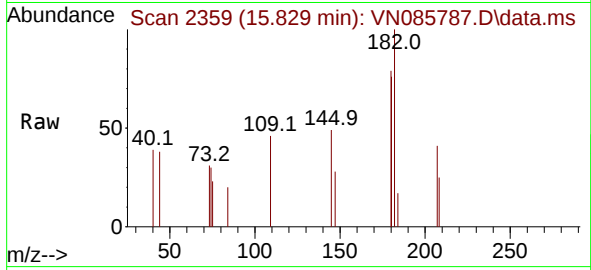
Tgt Ion:128 Resp: 6690
Ion Ratio Lower Upper
128 100
127 9.8 10.2 15.2#
129 10.1 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 0.736 ug/l
 RT: 15.829 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN085787.D
 Acq: 19 Feb 2025 13:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VPB192-HYD-20250214



Tgt Ion:	180	Resp:	2280
Ion	Ratio	Lower	Upper
180	100		
182	87.0	47.3	141.8
145	32.2	16.9	50.6

