

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090424\
 Data File : VN083658.D
 Acq On : 04 Sep 2024 18:42
 Operator : JC\MD
 Sample : P3802-09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

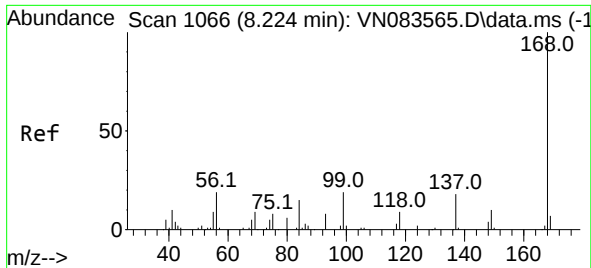
Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 05 02:30:56 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N083024W.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 31 00:48:10 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	135338	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	279076	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	292484	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	135841	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	104252	55.117	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.240%			
35) Dibromofluoromethane	8.165	113	81955	48.792	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.580%			
50) Toluene-d8	10.565	98	307303	46.998	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.000%			
62) 4-Bromofluorobenzene	12.847	95	137751	56.849	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 113.700%			
Target Compounds						Qvalue
3) Chloromethane	2.365	50	1658	0.994	ug/l #	41
5) Bromomethane	2.906	94	525	0.598	ug/l #	70
6) Chloroethane	3.101	64	631	0.578	ug/l #	45
16) Acetone	4.453	43	1207	1.600	ug/l #	45
17) Carbon Disulfide	4.700	76	1732	0.401	ug/l #	75
18) Methyl Acetate	5.024	43	708	0.353	ug/l #	68
31) Cyclohexane	8.218	56	3393	1.160	ug/l #	4
38) Carbon Tetrachloride	8.218	117	15569	5.326	ug/l #	16
43) Isopropyl Acetate	8.688	43	552	Below Cal	#	57
53) t-1,3-Dichloropropene	10.835	75	638	0.214	ug/l	92
59) 2-Hexanone	11.200	43	587	0.330	ug/l	77
65) Chlorobenzene	11.888	112	1495	0.228	ug/l	93
68) m/p-Xylenes	12.071	106	1554	0.352	ug/l	92
70) Styrene	12.412	104	1990	0.278	ug/l #	84
76) 1,2,3-Trichloropropane	12.847	75	76140	27.762	ug/l #	1
77) Bromobenzene	12.982	156	869	0.337	ug/l	71
78) n-propylbenzene	13.035	91	3461	0.272	ug/l	93
79) 2-Chlorotoluene	13.129	91	2212	0.269	ug/l	81
81) trans-1,4-Dichloro-2-b...	12.847	75	76140	65.479	ug/l #	9
82) 4-Chlorotoluene	13.223	91	3388	0.405	ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	1972	0.212	ug/l	87
86) p-Isopropyltoluene	13.729	119	2364	0.259	ug/l	92
87) 1,3-Dichlorobenzene	13.735	146	2280	0.455	ug/l	98
88) 1,4-Dichlorobenzene	13.735	146	2280	0.443	ug/l	99
89) n-Butylbenzene	14.053	91	3137	0.390	ug/l	94
91) 1,2-Dichlorobenzene	14.100	146	1915	0.397	ug/l	95
93) 1,2,4-Trichlorobenzene	15.388	180	1785	0.653	ug/l	81
94) Hexachlorobutadiene	15.494	225	347	0.317	ug/l	69
95) Naphthalene	15.635	128	6277	0.714	ug/l	98
96) 1,2,3-Trichlorobenzene	15.841	180	2092	0.766	ug/l	98

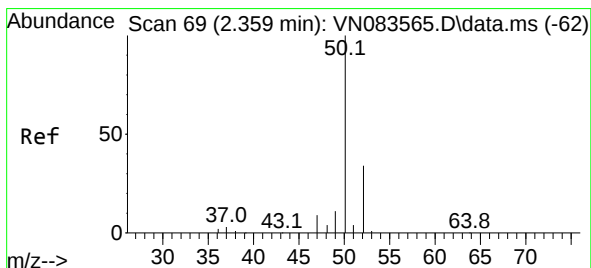
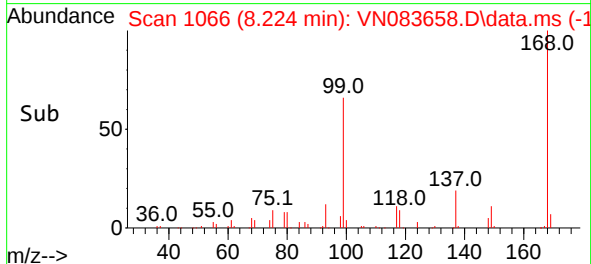
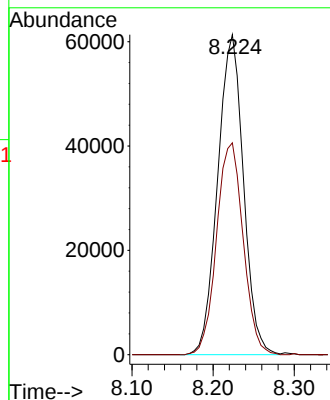
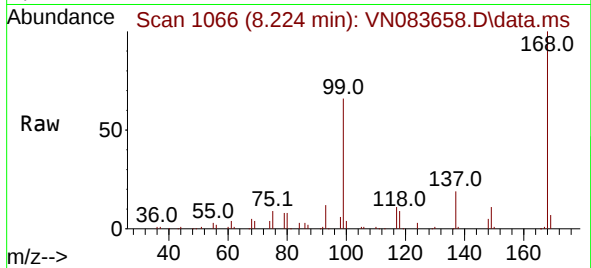
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN083658.D
Acq: 04 Sep 2024 18:42

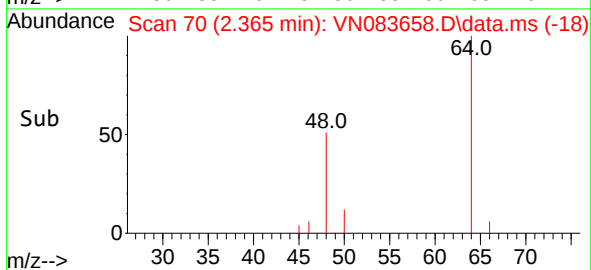
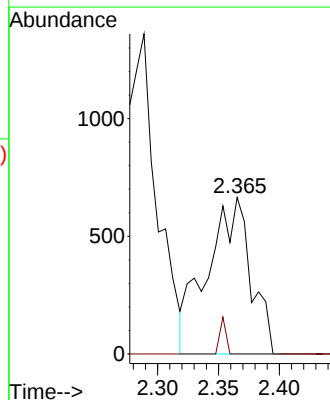
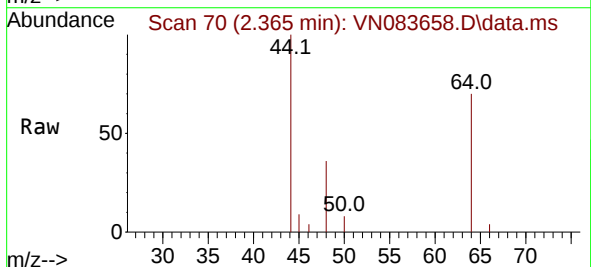
Instrument :
MSVOA_N
ClientSampleId :

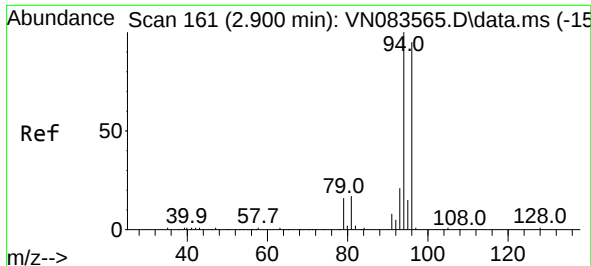
Tgt Ion:168 Resp: 135338
Ion Ratio Lower Upper
168 100
99 66.2 54.2 81.2



#3
Chloromethane
Concen: 0.994 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN083658.D
Acq: 04 Sep 2024 18:42

Tgt Ion: 50 Resp: 1658
Ion Ratio Lower Upper
50 100
52 0.0 27.2 40.8#

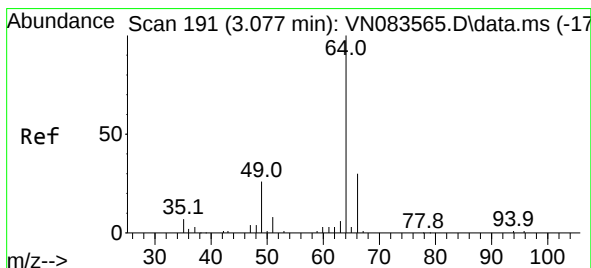
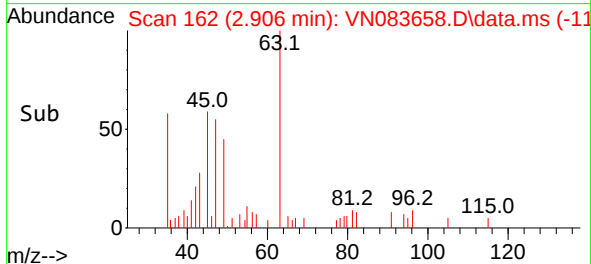
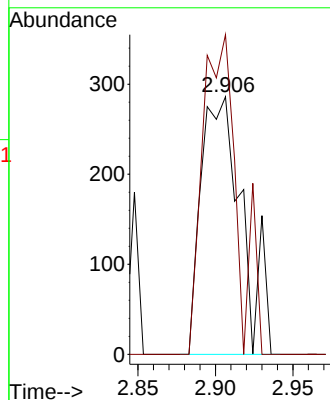
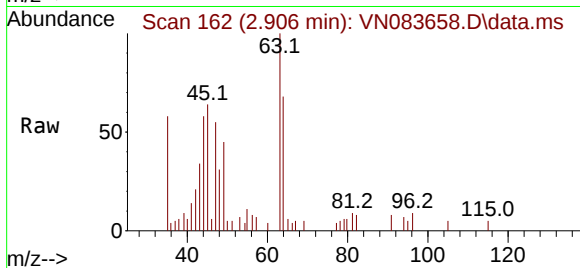




#5
Bromomethane
Concen: 0.598 ug/l
RT: 2.906 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN083658.D
Acq: 04 Sep 2024 18:42

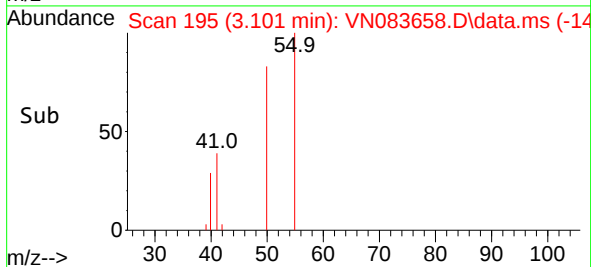
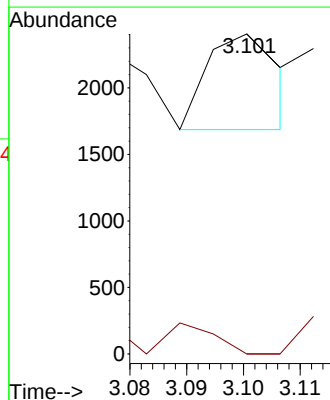
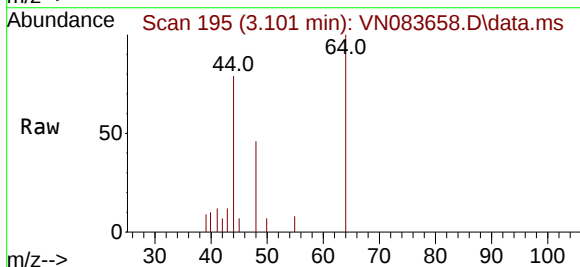
Instrument :
MSVOA_N
ClientSampleId :

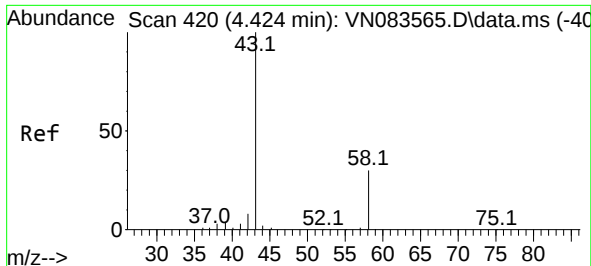
Tgt Ion: 94 Resp: 525
Ion Ratio Lower Upper
94 100
96 124.1 76.0 114.0#



#6
Chloroethane
Concen: 0.578 ug/l
RT: 3.101 min Scan# 195
Delta R.T. 0.024 min
Lab File: VN083658.D
Acq: 04 Sep 2024 18:42

Tgt Ion: 64 Resp: 631
Ion Ratio Lower Upper
64 100
66 0.0 23.9 35.9#





#16

Acetone

Concen: 1.600 ug/l

RT: 4.453 min Scan# 41

Delta R.T. 0.029 min

Lab File: VN083658.D

Acq: 04 Sep 2024 18:42

Instrument :

MSVOA_N

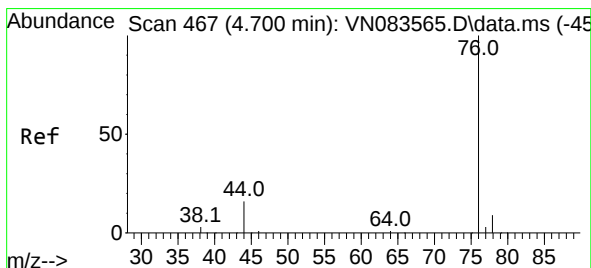
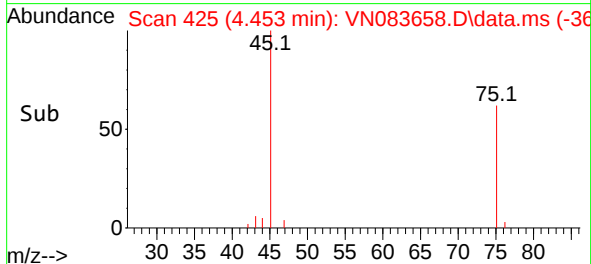
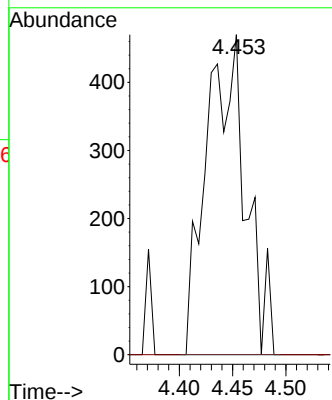
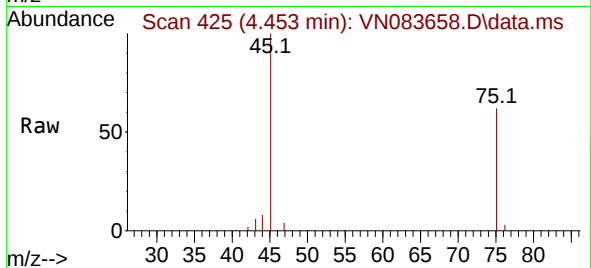
ClientSampleId :

Tgt Ion: 43 Resp: 1207

Ion Ratio Lower Upper

43 100

58 0.0 23.7 35.5#



#17

Carbon Disulfide

Concen: 0.401 ug/l

RT: 4.700 min Scan# 467

Delta R.T. 0.000 min

Lab File: VN083658.D

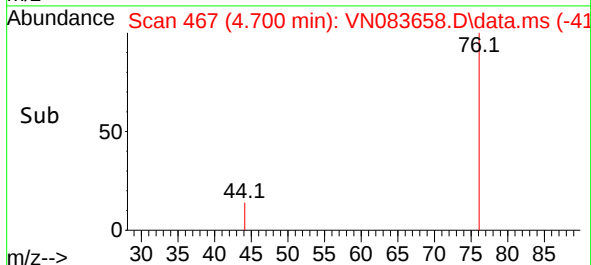
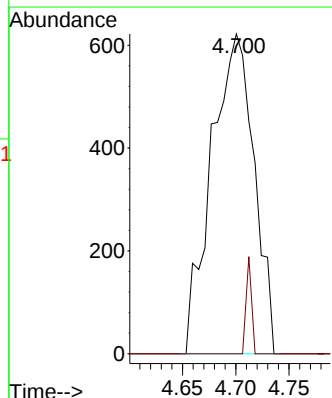
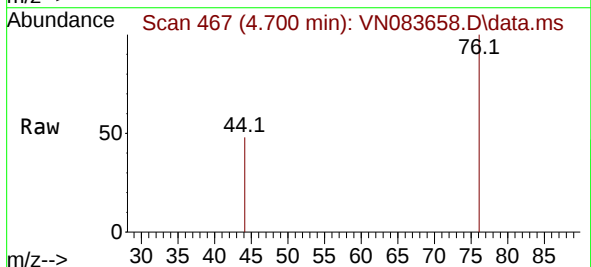
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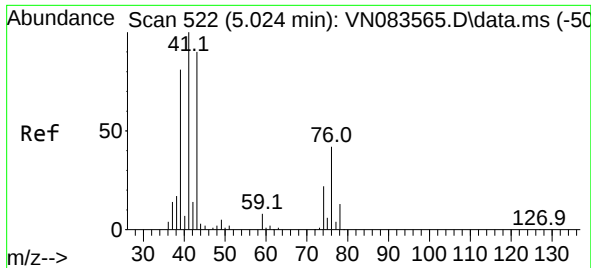
Tgt Ion: 76 Resp: 1732

Ion Ratio Lower Upper

76 100

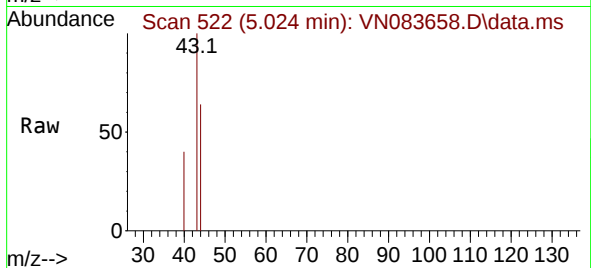
78 0.0 7.1 10.7#



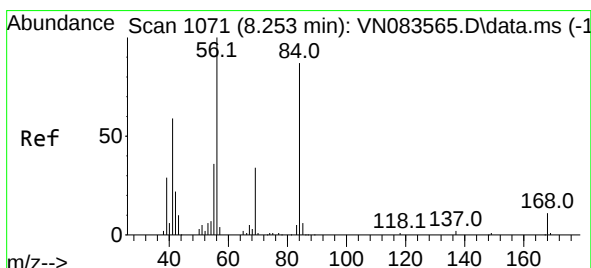
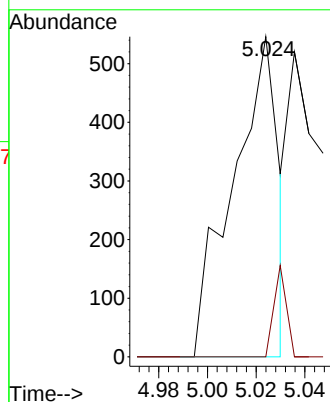
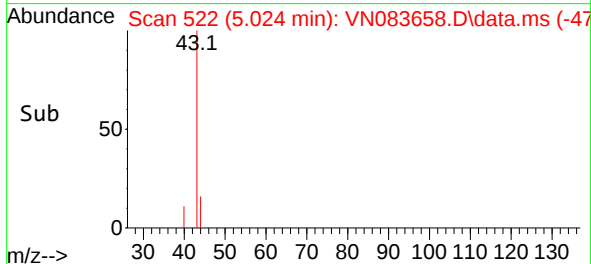


#18
Methyl Acetate
Concen: 0.353 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN083658.D
Acq: 04 Sep 2024 18:42

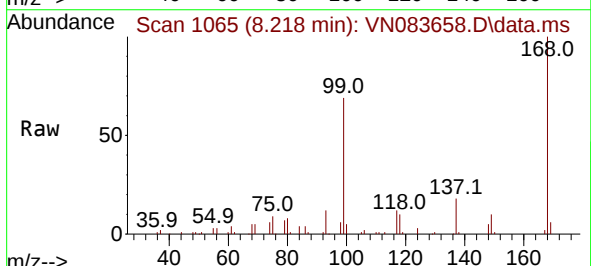
Instrument :
MSVOA_N
ClientSampleId :



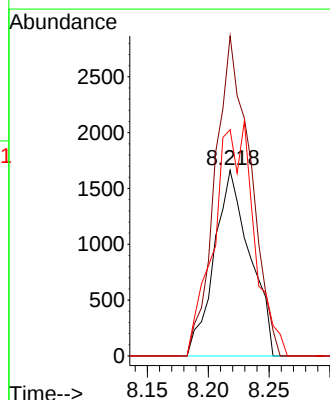
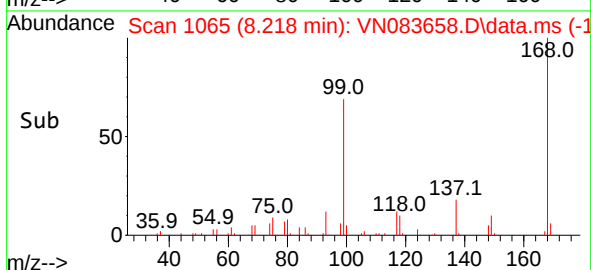
Tgt Ion: 43 Resp: 708
Ion Ratio Lower Upper
43 100
74 7.8 19.0 28.4#

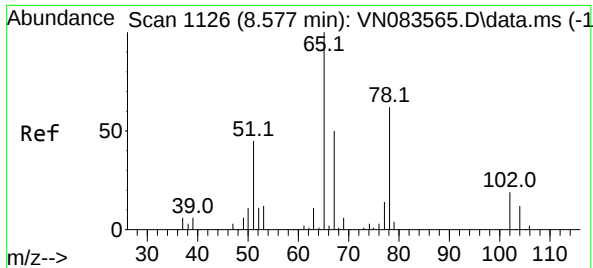


#31
Cyclohexane
Concen: 1.160 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN083658.D
Acq: 04 Sep 2024 18:42



Tgt Ion: 56 Resp: 3393
Ion Ratio Lower Upper
56 100
69 172.3 26.9 40.3#
84 121.9 69.2 103.8#





#33

1,2-Dichloroethane-d4

Concen: 55.117 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN083658.D

Acq: 04 Sep 2024 18:42

Instrument :

MSVOA_N

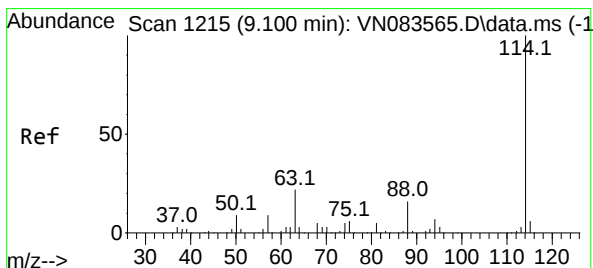
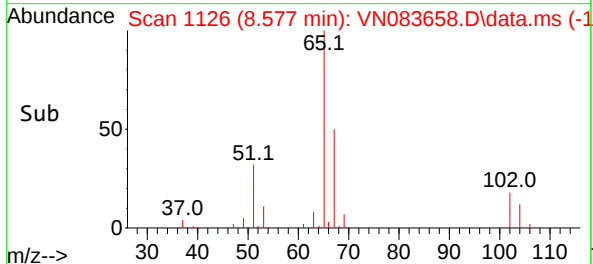
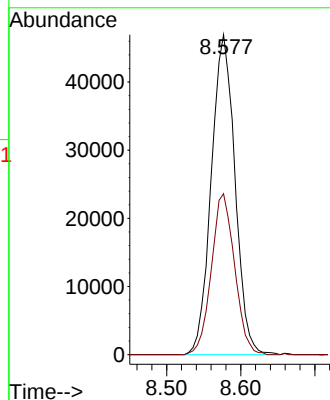
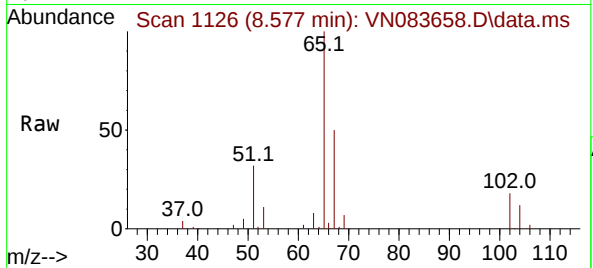
ClientSampleId :

Tgt Ion: 65 Resp: 104252

Ion Ratio Lower Upper

65 100

67 49.3 0.0 100.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN083658.D

Acq: 04 Sep 2024 18:42

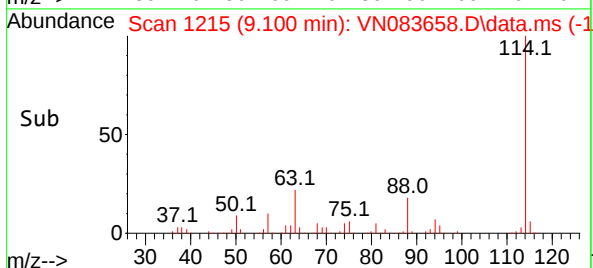
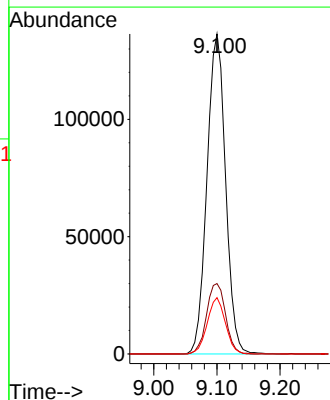
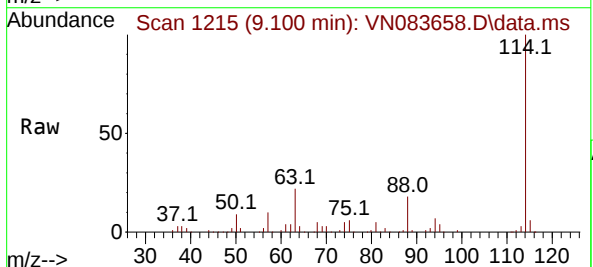
Tgt Ion: 114 Resp: 279076

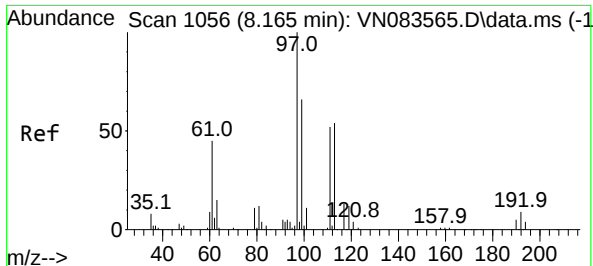
Ion Ratio Lower Upper

114 100

63 22.0 0.0 43.4

88 17.6 0.0 32.6





#35

Dibromofluoromethane

Concen: 48.792 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN083658.D

Acq: 04 Sep 2024 18:42

Instrument :

MSVOA_N

ClientSampleId :

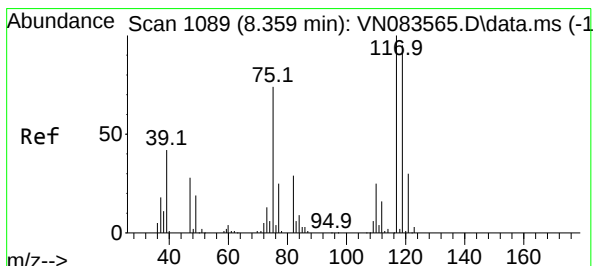
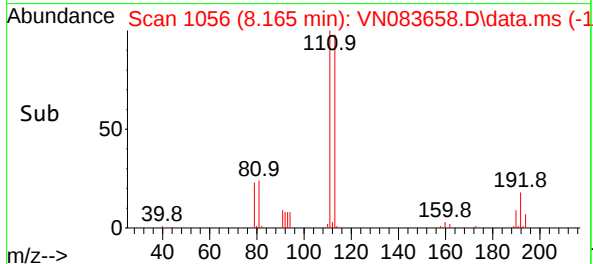
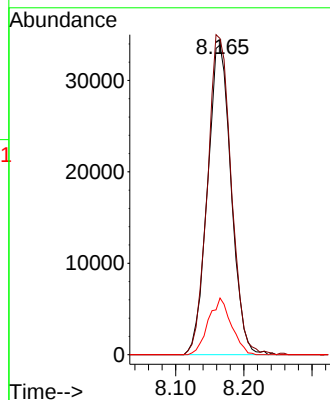
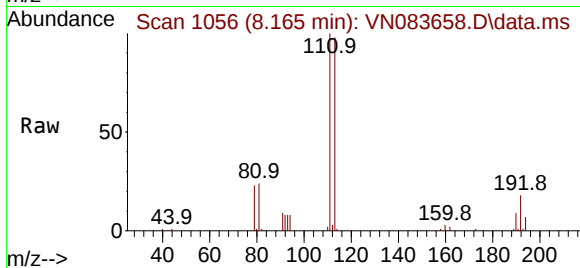
Tgt Ion:113 Resp: 81955

Ion Ratio Lower Upper

113 100

111 103.7 82.6 124.0

192 17.7 14.3 21.5



#38

Carbon Tetrachloride

Concen: 5.326 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.141 min

Lab File: VN083658.D

Acq: 04 Sep 2024 18:42

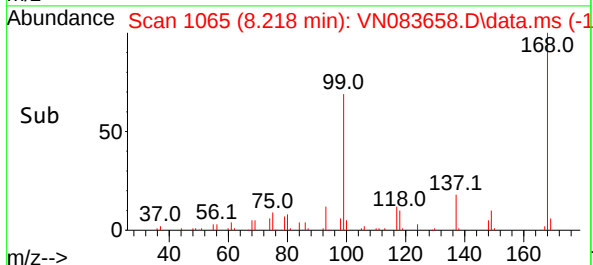
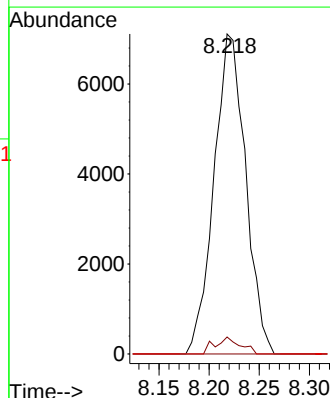
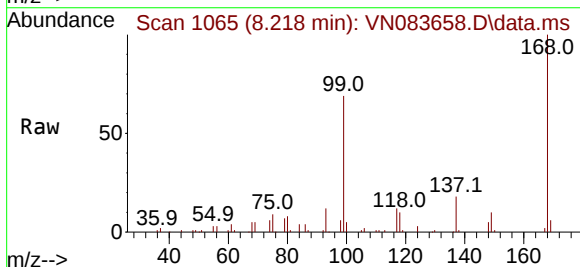
Tgt Ion:117 Resp: 15569

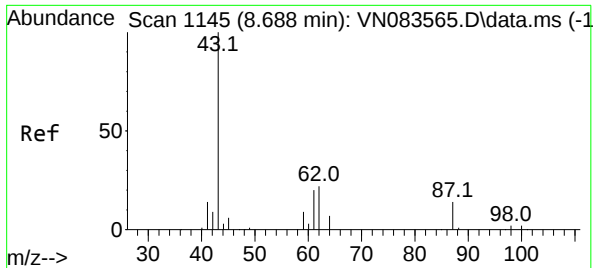
Ion Ratio Lower Upper

117 100

119 5.3 76.1 114.1#

121 0.0 24.1 36.1#

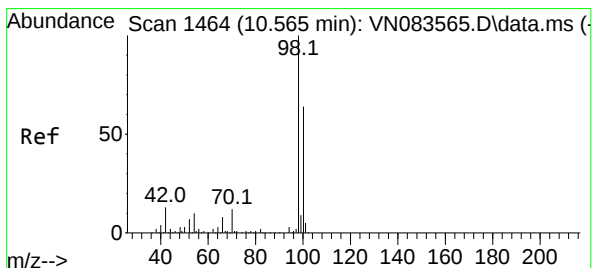
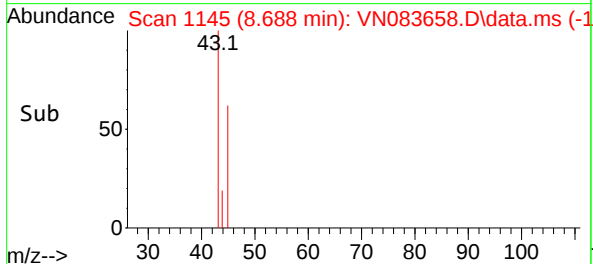
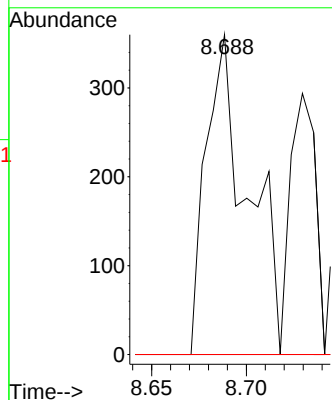
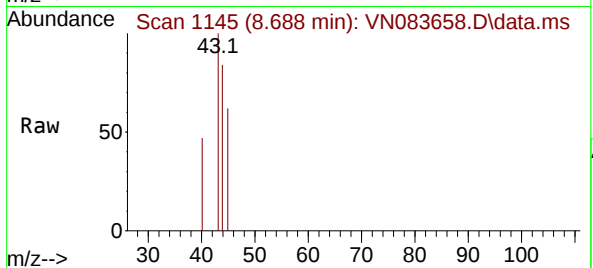




#43
Isopropyl Acetate
Concen: Below Cal
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN083658.D
Acq: 04 Sep 2024 18:42

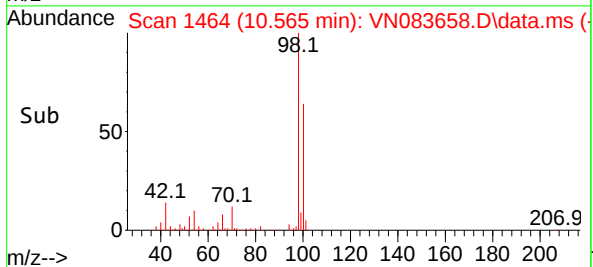
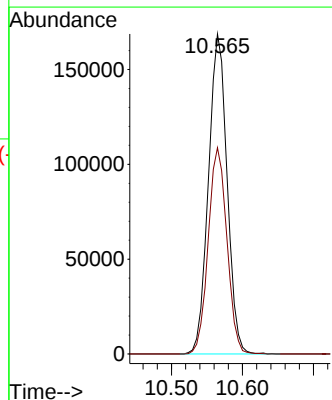
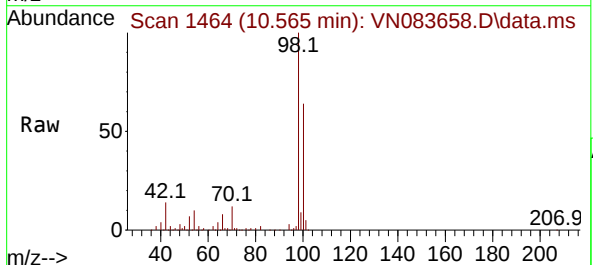
Instrument :
MSVOA_N
ClientSampleId :

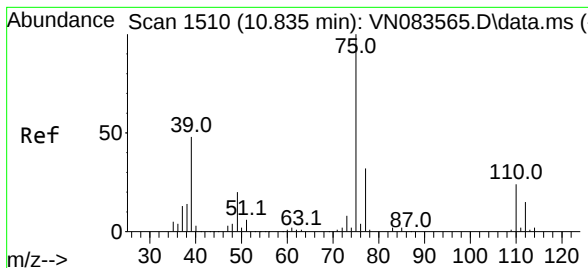
Tgt Ion: 43 Resp: 552
Ion Ratio Lower Upper
43 100
61 0.0 19.4 29.0#
87 0.0 9.8 14.6#



#50
Toluene-d8
Concen: 46.998 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083658.D
Acq: 04 Sep 2024 18:42

Tgt Ion: 98 Resp: 307303
Ion Ratio Lower Upper
98 100
100 64.7 52.0 78.0

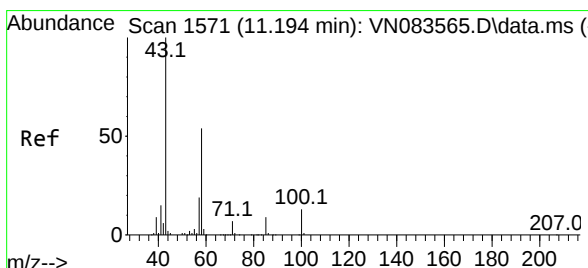
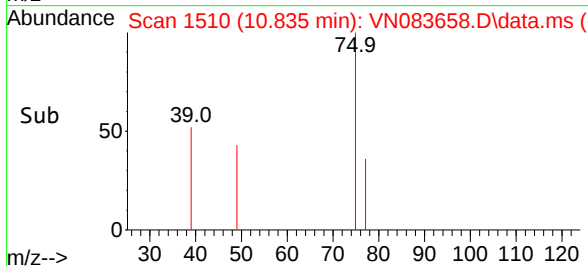
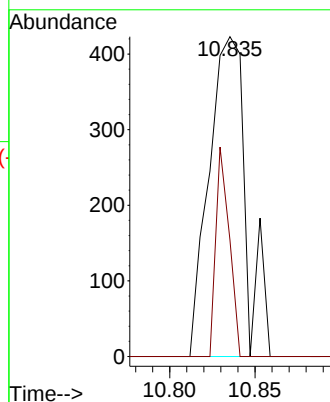
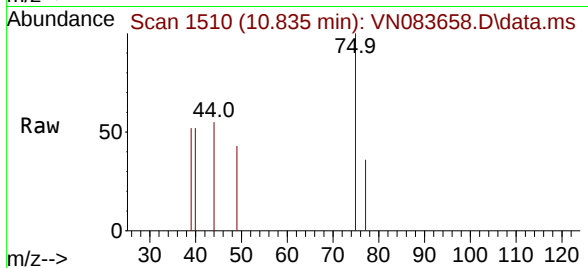




#53
t-1,3-Dichloropropene
Concen: 0.214 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. 0.000 min
Lab File: VN083658.D
Acq: 04 Sep 2024 18:42

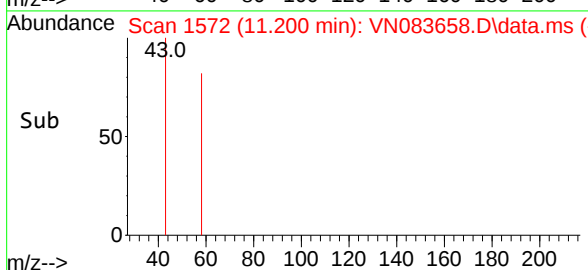
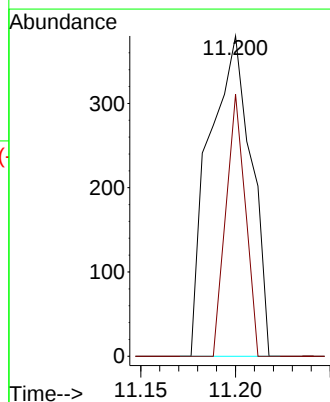
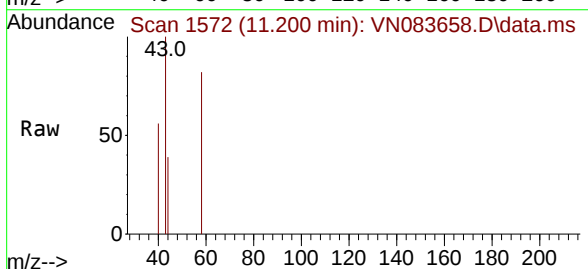
Instrument :
MSVOA_N
ClientSampleId :

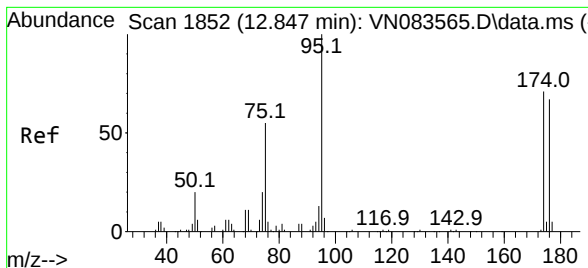
Tgt Ion: 75 Resp: 638
Ion Ratio Lower Upper
75 100
77 36.4 25.8 38.6



#59
2-Hexanone
Concen: 0.330 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN083658.D
Acq: 04 Sep 2024 18:42

Tgt Ion: 43 Resp: 587
Ion Ratio Lower Upper
43 100
58 37.6 27.2 81.5

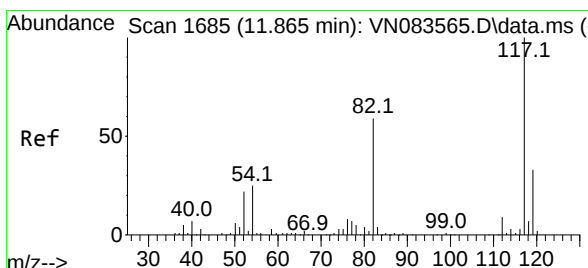
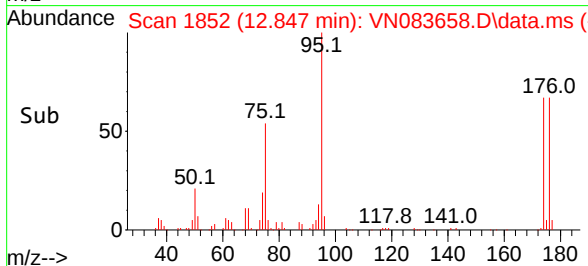
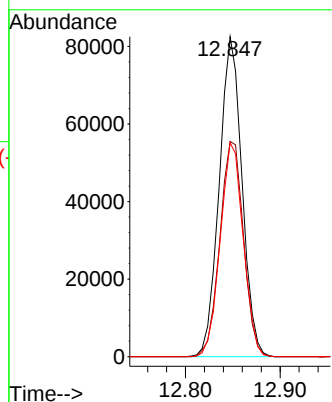
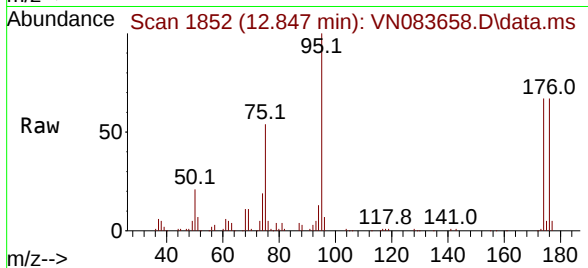




#62
4-Bromofluorobenzene
Concen: 56.849 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN083658.D
Acq: 04 Sep 2024 18:42

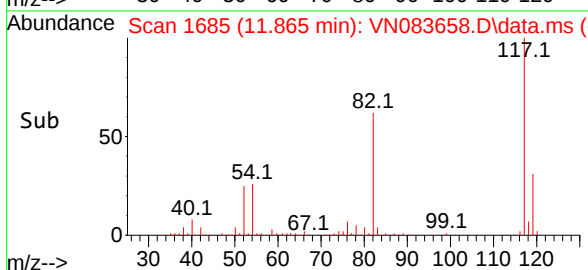
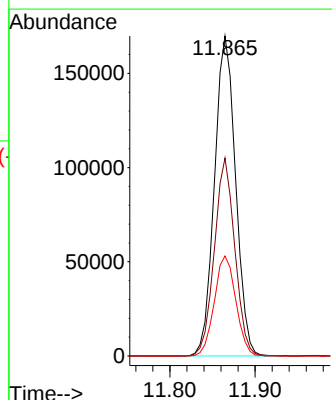
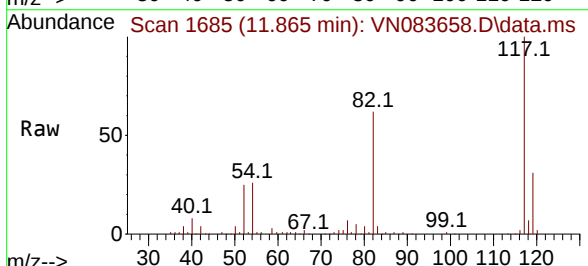
Instrument :
MSVOA_N
ClientSampleId :

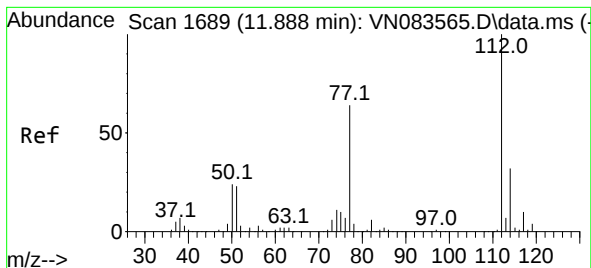
Tgt Ion: 95 Resp: 137751
Ion Ratio Lower Upper
95 100
174 69.9 0.0 139.8
176 67.6 0.0 131.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN083658.D
Acq: 04 Sep 2024 18:42

Tgt Ion: 117 Resp: 292484
Ion Ratio Lower Upper
117 100
82 61.8 47.4 71.0
119 31.2 26.3 39.5





#65

Chlorobenzene

Concen: 0.228 ug/l

RT: 11.888 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN083658.D

Acq: 04 Sep 2024 18:42

Instrument :

MSVOA_N

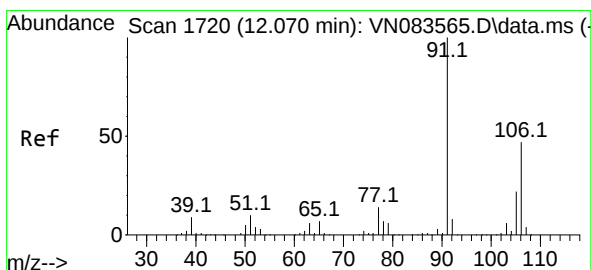
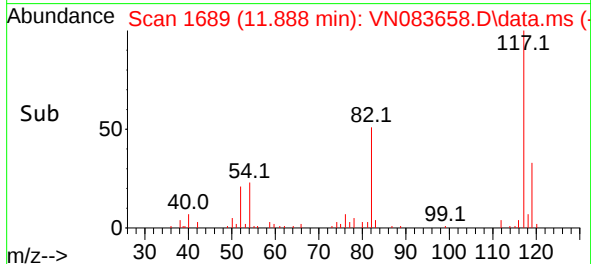
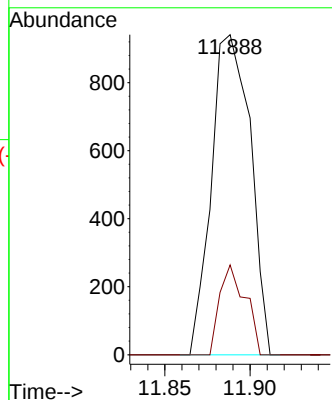
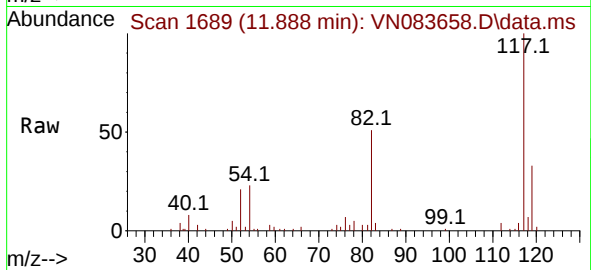
ClientSampleId :

Tgt Ion:112 Resp: 1495

Ion Ratio Lower Upper

112 100

114 28.1 25.7 38.5



#68

m/p-Xylenes

Concen: 0.352 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.000 min

Lab File: VN083658.D

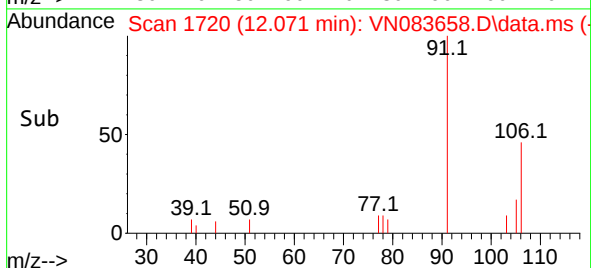
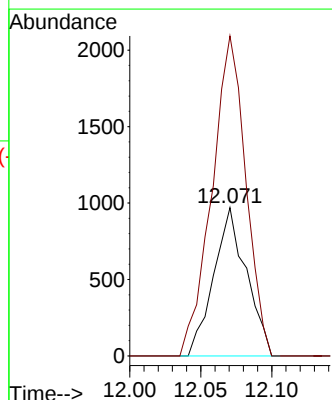
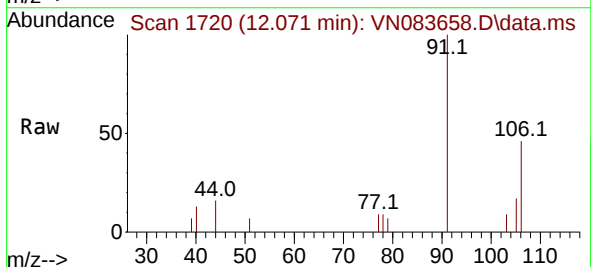
Acq: 04 Sep 2024 18:42

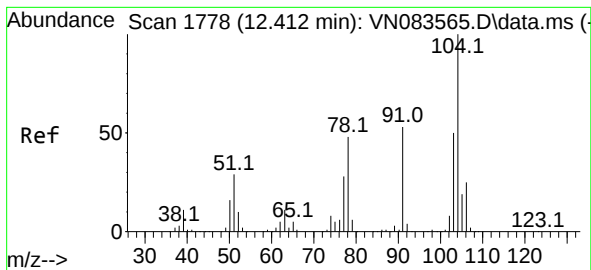
Tgt Ion:106 Resp: 1554

Ion Ratio Lower Upper

106 100

91 223.9 169.2 253.8





#70

Styrene

Concen: 0.278 ug/l

RT: 12.412 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN083658.D

Acq: 04 Sep 2024 18:42

Instrument :

MSVOA_N

ClientSampleId :

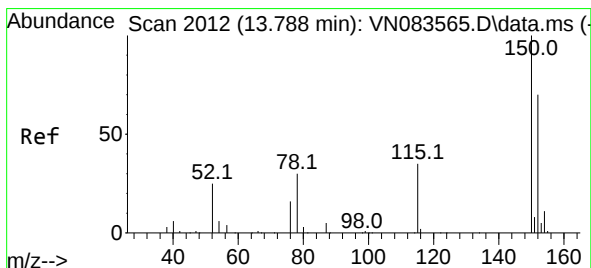
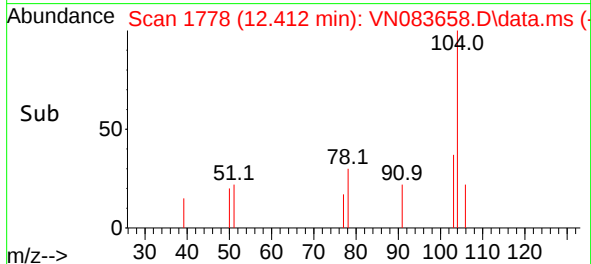
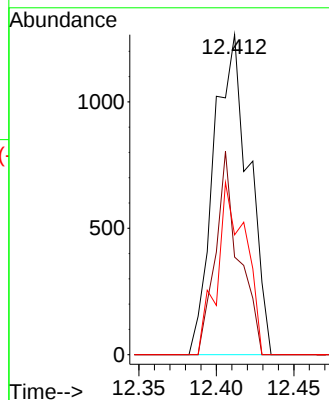
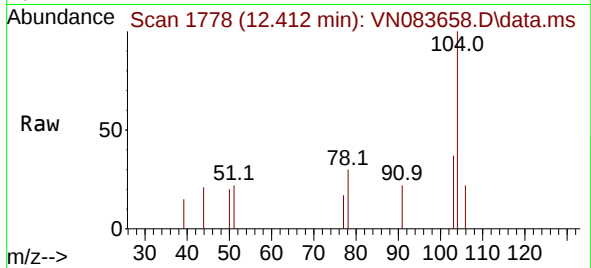
Tgt Ion:104 Resp: 1990

Ion Ratio Lower Upper

104 100

78 42.2 43.3 64.9#

103 43.8 43.4 65.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN083658.D

Acq: 04 Sep 2024 18:42

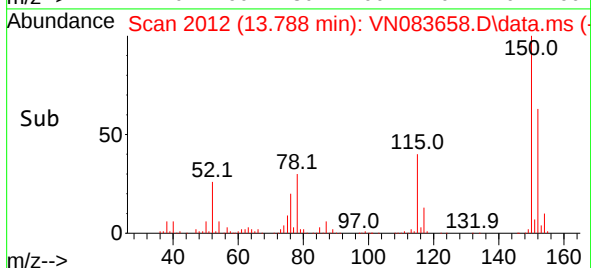
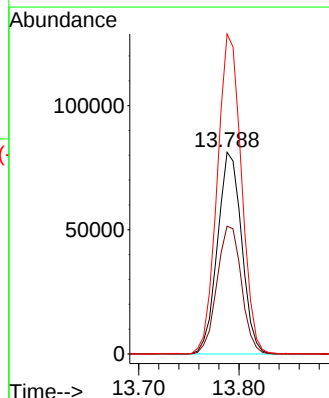
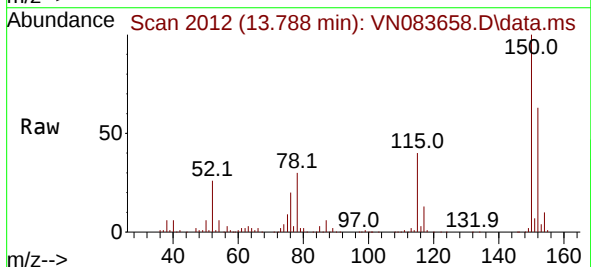
Tgt Ion:152 Resp: 135841

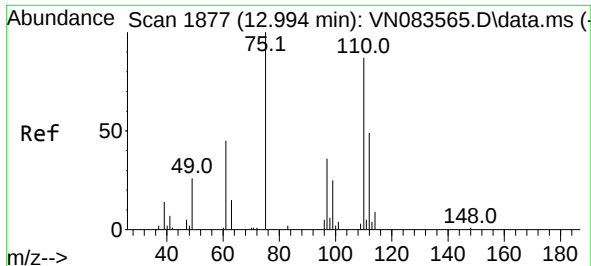
Ion Ratio Lower Upper

152 100

115 64.2 32.2 96.6

150 158.9 0.0 348.6

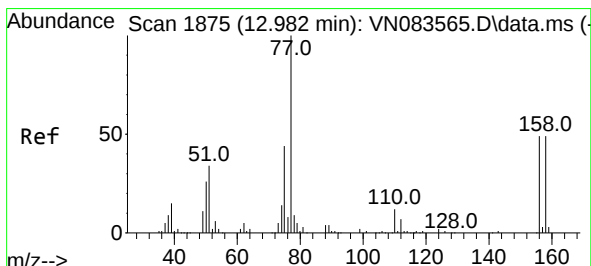
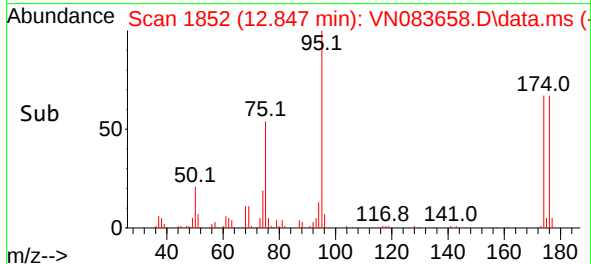
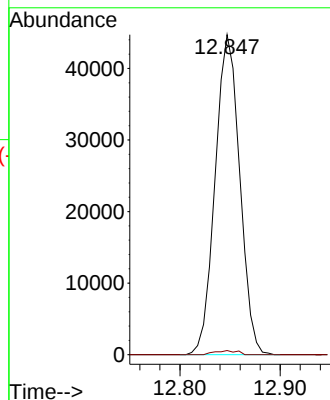
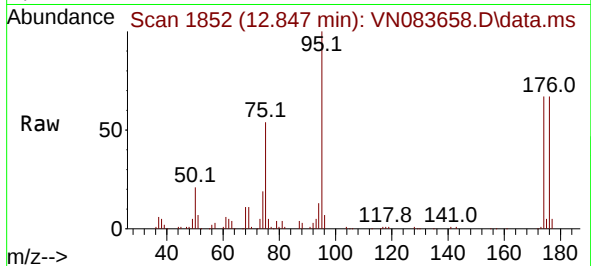




#76
1,2,3-Trichloropropane
Concen: 27.762 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN083658.D
Acq: 04 Sep 2024 18:42

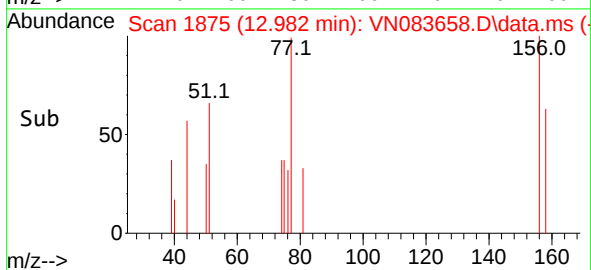
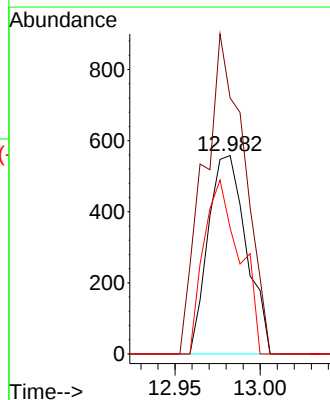
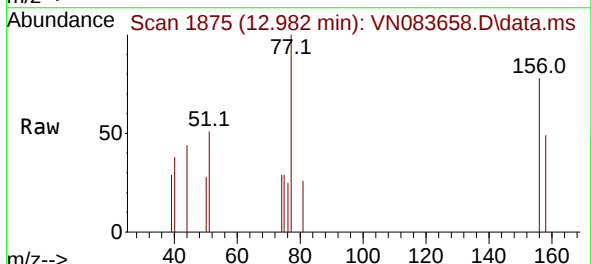
Instrument :
MSVOA_N
ClientSampleId :

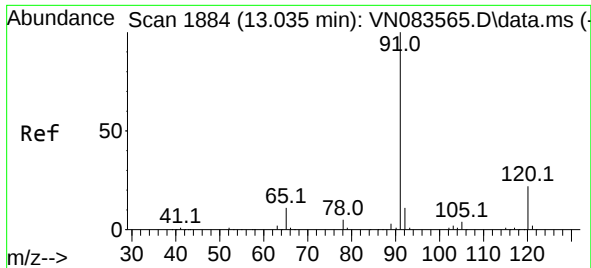
Tgt Ion: 75 Resp: 76140
Ion Ratio Lower Upper
75 100
77 1.2 95.2 285.6#



#77
Bromobenzene
Concen: 0.337 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VN083658.D
Acq: 04 Sep 2024 18:42

Tgt Ion:156 Resp: 869
Ion Ratio Lower Upper
156 100
77 171.6 114.3 343.1
158 82.9 48.9 146.7

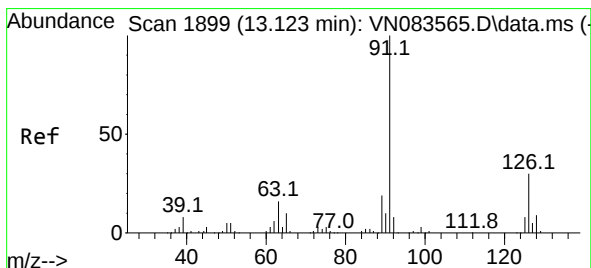
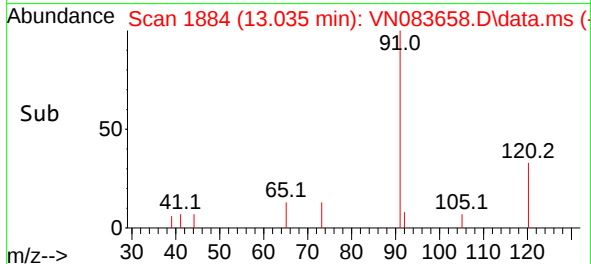
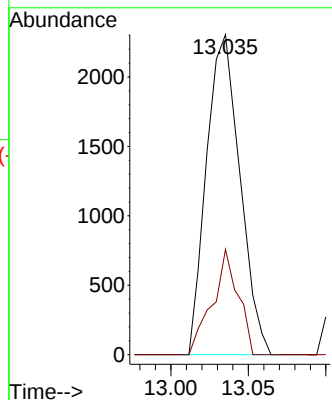
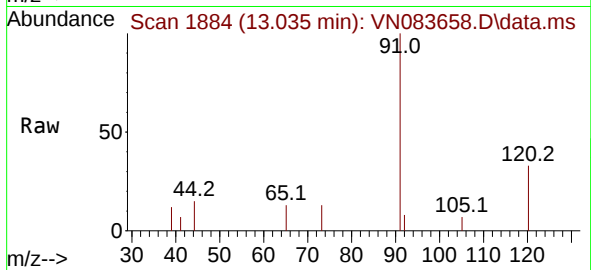




#78
n-propylbenzene
Concen: 0.272 ug/l
RT: 13.035 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN083658.D
Acq: 04 Sep 2024 18:42

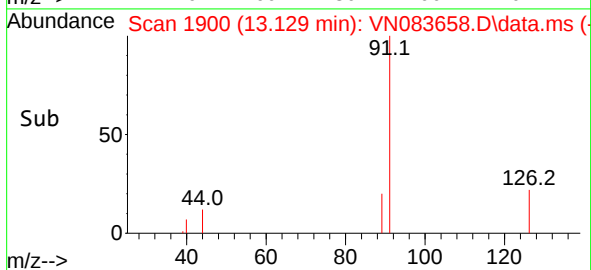
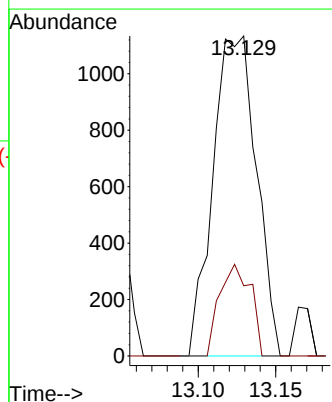
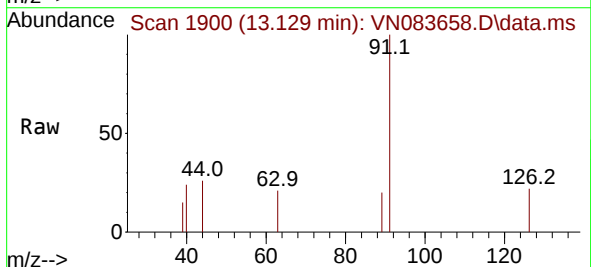
Instrument :
MSVOA_N
ClientSampleId :

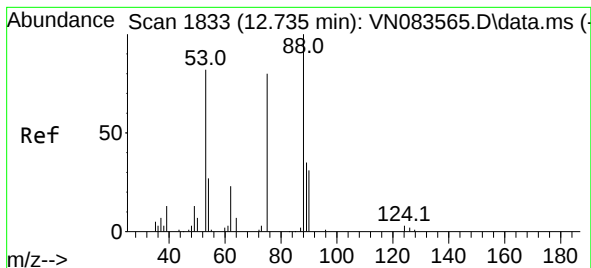
Tgt Ion: 91 Resp: 3461
Ion Ratio Lower Upper
91 100
120 25.3 11.0 33.0



#79
2-Chlorotoluene
Concen: 0.269 ug/l
RT: 13.129 min Scan# 1900
Delta R.T. 0.006 min
Lab File: VN083658.D
Acq: 04 Sep 2024 18:42

Tgt Ion: 91 Resp: 2212
Ion Ratio Lower Upper
91 100
126 20.5 15.4 46.2

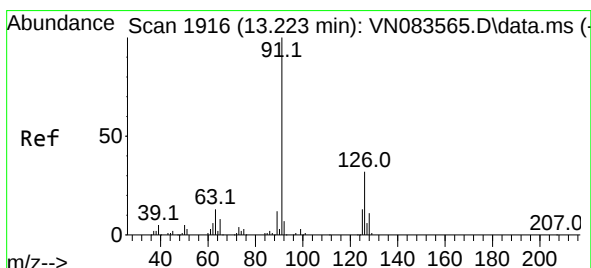
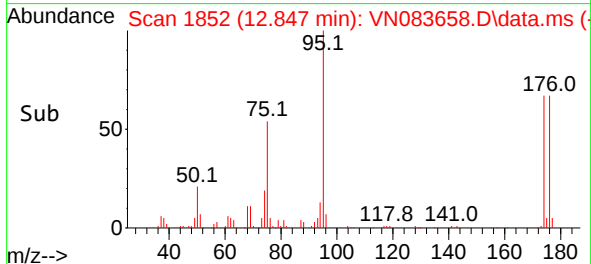
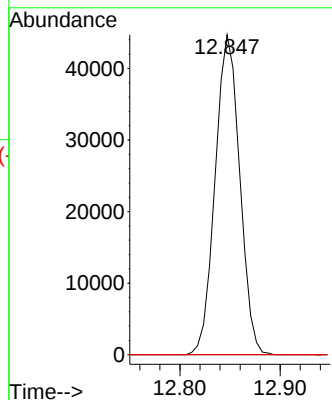
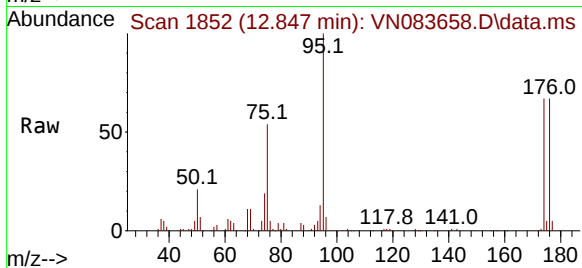




#81
trans-1,4-Dichloro-2-butene
Concen: 65.479 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN083658.D
Acq: 04 Sep 2024 18:42

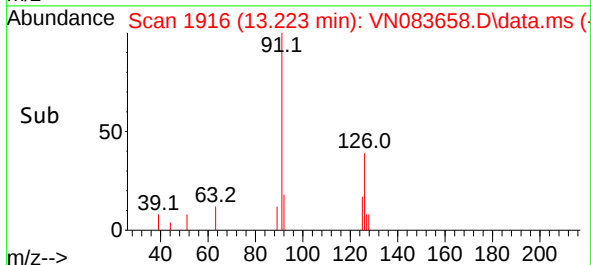
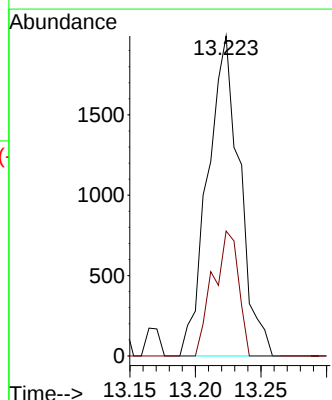
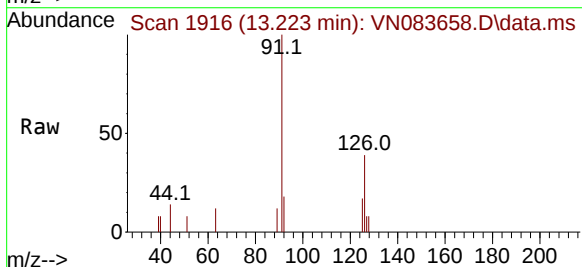
Instrument :
MSVOA_N
ClientSampleId :

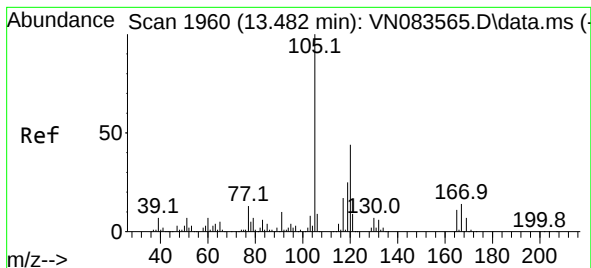
Tgt Ion: 75 Resp: 76140
Ion Ratio Lower Upper
75 100
53 0.0 81.2 121.8#
89 0.0 35.7 53.5#



#82
4-Chlorotoluene
Concen: 0.405 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN083658.D
Acq: 04 Sep 2024 18:42

Tgt Ion: 91 Resp: 3388
Ion Ratio Lower Upper
91 100
126 30.9 15.4 46.2





#84

1,2,4-Trimethylbenzene

Concen: 0.212 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.000 min

Lab File: VN083658.D

Acq: 04 Sep 2024 18:42

Instrument :

MSVOA_N

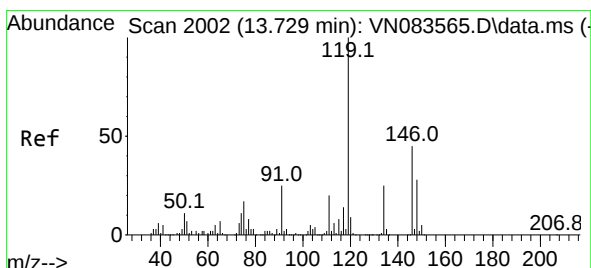
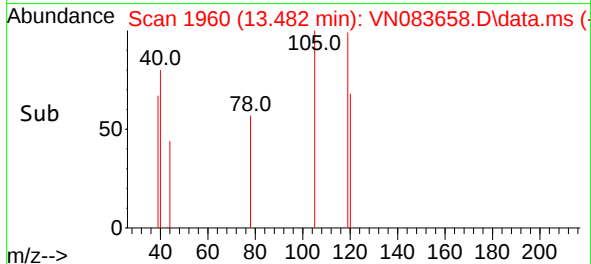
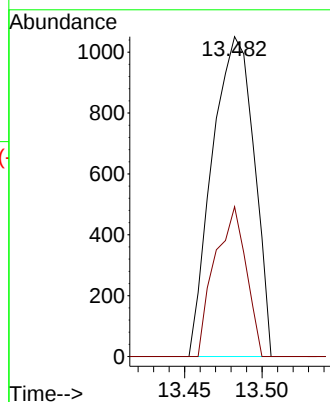
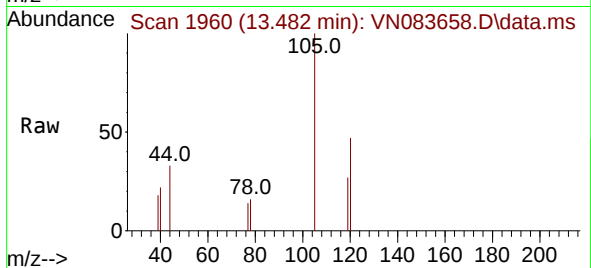
ClientSampleId :

Tgt Ion:105 Resp: 1972

Ion Ratio Lower Upper

105 100

120 35.0 21.8 65.4



#86

p-Isopropyltoluene

Concen: 0.259 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN083658.D

Acq: 04 Sep 2024 18:42

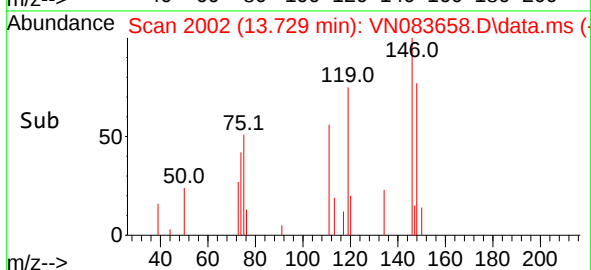
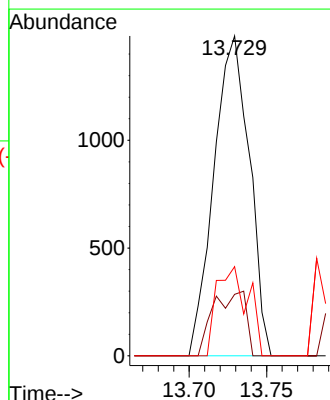
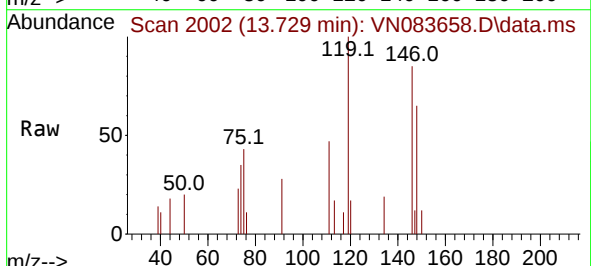
Tgt Ion:119 Resp: 2364

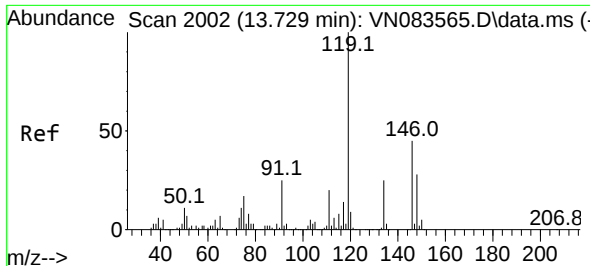
Ion Ratio Lower Upper

119 100

134 18.5 12.8 38.3

91 24.6 12.9 38.7

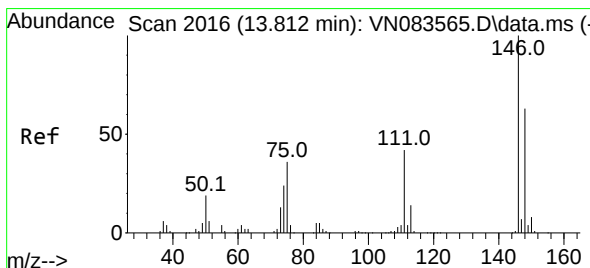
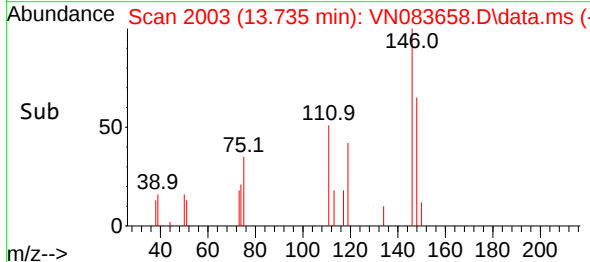
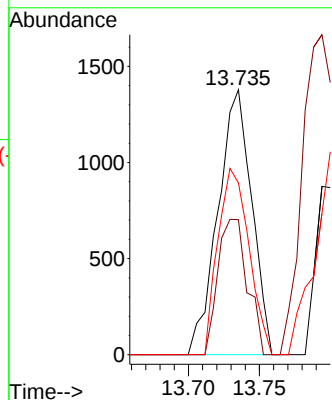
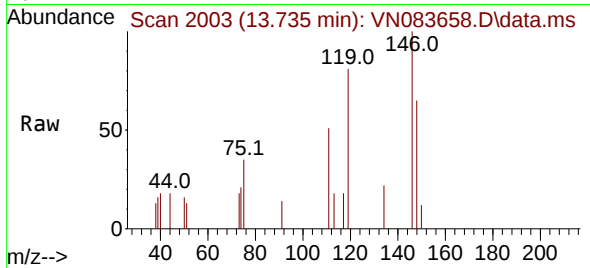




#87
1,3-Dichlorobenzene
Concen: 0.455 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.006 min
Lab File: VN083658.D
Acq: 04 Sep 2024 18:42

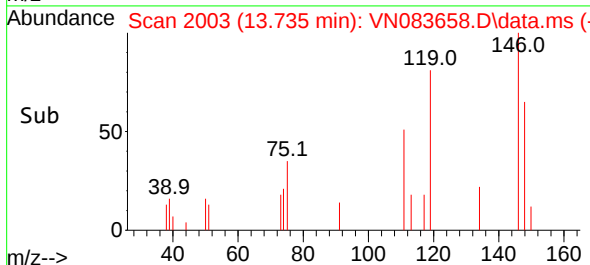
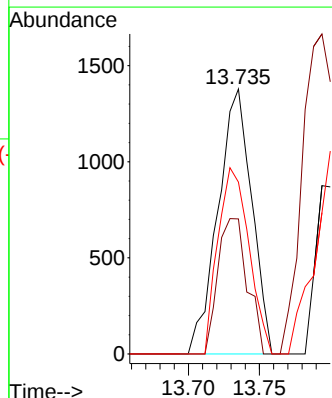
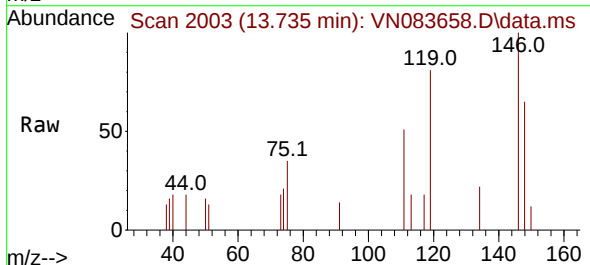
Instrument :
MSVOA_N
ClientSampleId :

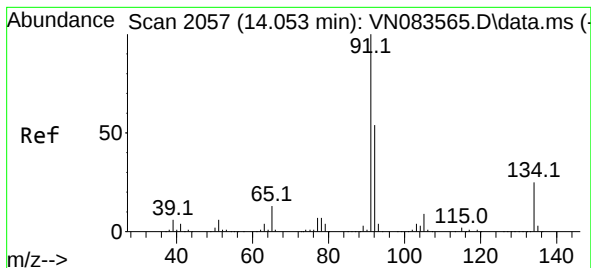
Tgt Ion:146 Resp: 2280
Ion Ratio Lower Upper
146 100
111 44.5 21.7 65.1
148 64.6 31.7 95.1



#88
1,4-Dichlorobenzene
Concen: 0.443 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. -0.076 min
Lab File: VN083658.D
Acq: 04 Sep 2024 18:42

Tgt Ion:146 Resp: 2280
Ion Ratio Lower Upper
146 100
111 44.5 21.3 64.0
148 64.6 32.0 96.2

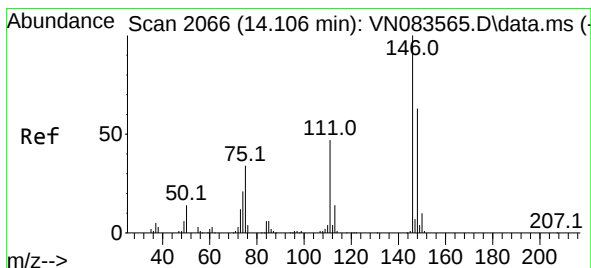
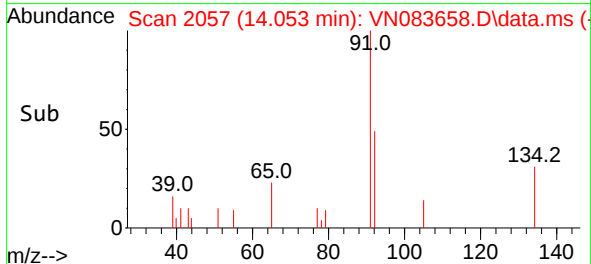
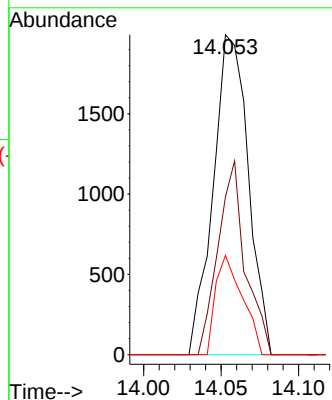
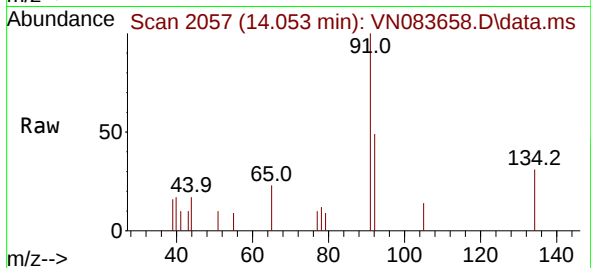




#89
n-Butylbenzene
Concen: 0.390 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. 0.000 min
Lab File: VN083658.D
Acq: 04 Sep 2024 18:42

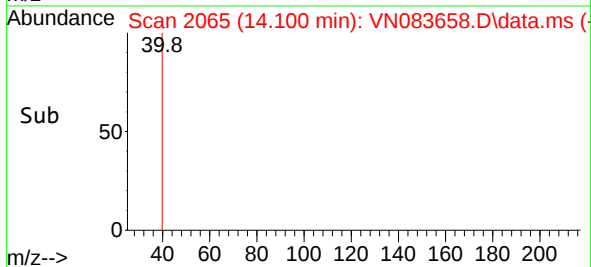
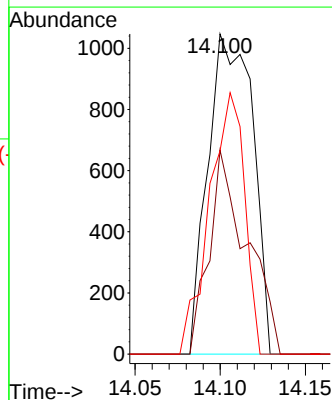
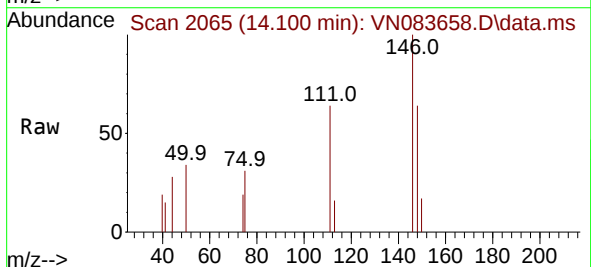
Instrument :
MSVOA_N
ClientSampleId :

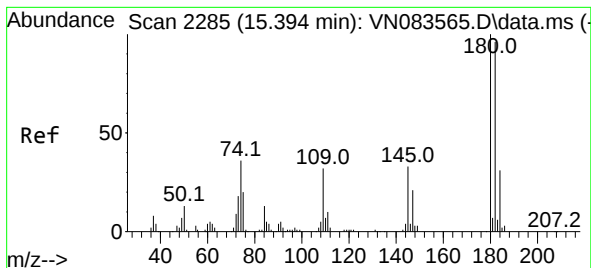
Tgt Ion:	91	Resp:	3137
Ion	Ratio	Lower	Upper
91	100		
92	47.2	26.7	80.1
134	23.7	12.2	36.4



#91
1,2-Dichlorobenzene
Concen: 0.397 ug/l
RT: 14.100 min Scan# 2065
Delta R.T. -0.006 min
Lab File: VN083658.D
Acq: 04 Sep 2024 18:42

Tgt Ion:	146	Resp:	1915
Ion	Ratio	Lower	Upper
146	100		
111	53.7	22.8	68.3
148	64.2	32.1	96.5





#93

1,2,4-Trichlorobenzene

Concen: 0.653 ug/l

RT: 15.388 min Scan# 21

Delta R.T. -0.006 min MSVOA_N

Lab File: VN083658.D

Acq: 04 Sep 2024 18:42

Instrument :

MSVOA_N

ClientSampleId :

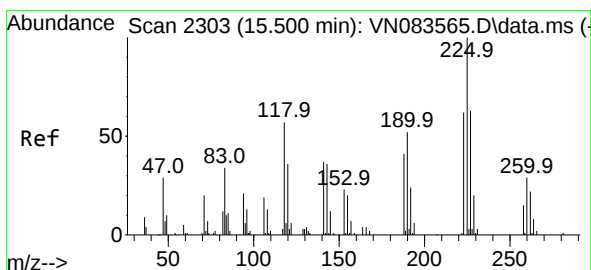
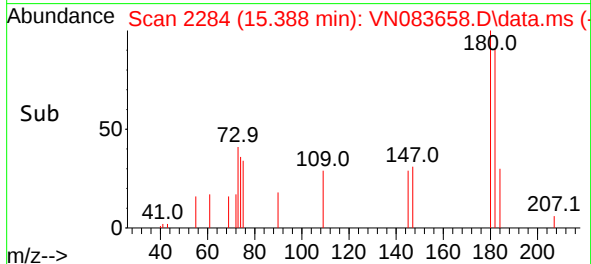
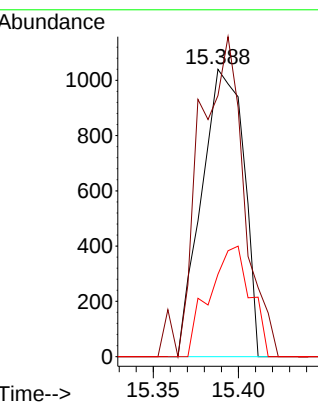
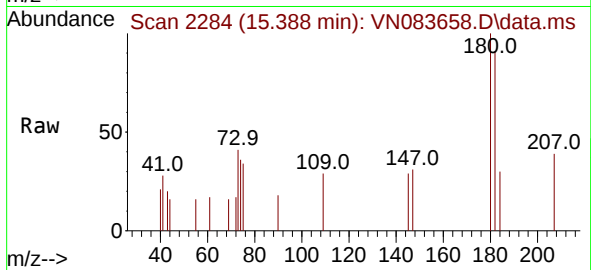
Tgt Ion:180 Resp: 1785

Ion Ratio Lower Upper

180 100

182 118.5 48.1 144.3

145 37.7 16.9 50.7



#94

Hexachlorobutadiene

Concen: 0.317 ug/l

RT: 15.494 min Scan# 2302

Delta R.T. -0.006 min

Lab File: VN083658.D

Acq: 04 Sep 2024 18:42

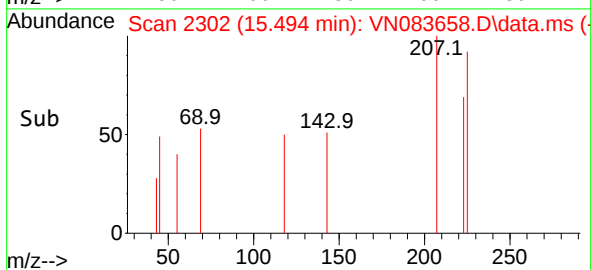
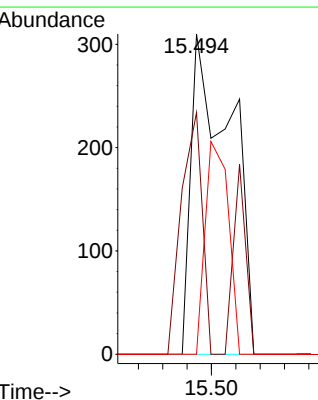
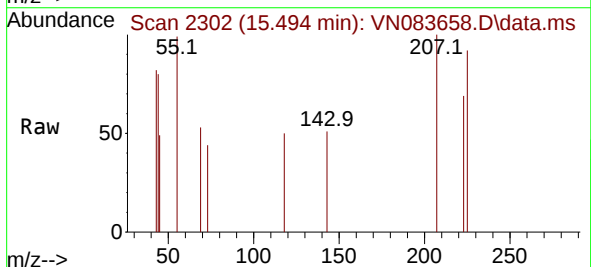
Tgt Ion:225 Resp: 347

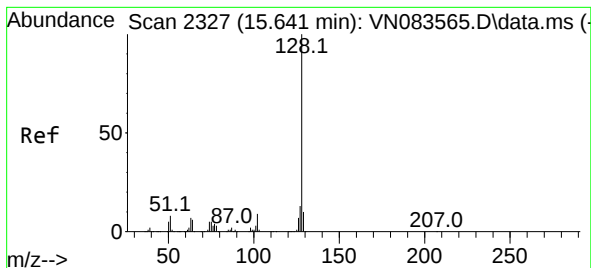
Ion Ratio Lower Upper

225 100

223 40.1 31.9 95.5

227 39.2 32.0 96.2





#95

Naphthalene

Concen: 0.714 ug/l

RT: 15.635 min Scan# 2327

Delta R.T. -0.006 min

Lab File: VN083658.D

Acq: 04 Sep 2024 18:42

Instrument :

MSVOA_N

ClientSampleId :

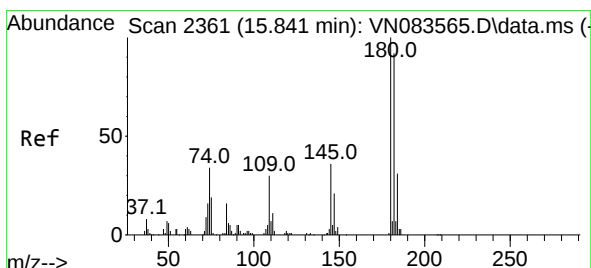
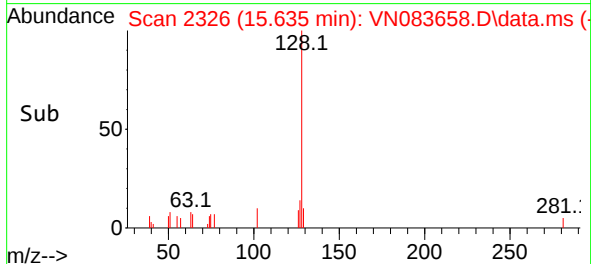
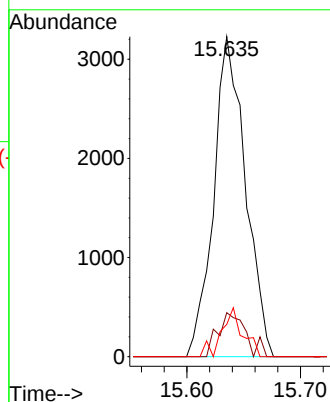
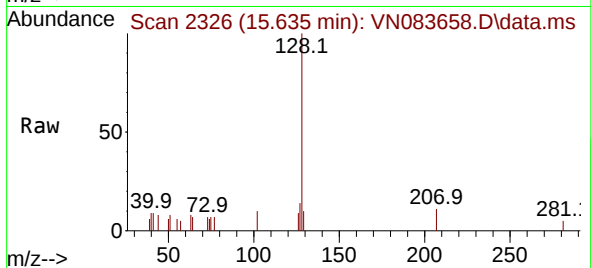
Tgt Ion:128 Resp: 6277

Ion Ratio Lower Upper

128 100

127 12.1 10.2 15.2

129 10.2 8.7 13.1



#96

1,2,3-Trichlorobenzene

Concen: 0.766 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. 0.000 min

Lab File: VN083658.D

Acq: 04 Sep 2024 18:42

Tgt Ion:180 Resp: 2092

Ion Ratio Lower Upper

180 100

182 92.4 47.1 141.4

145 36.4 17.8 53.5

