

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112024\
 Data File : VN084978.D
 Acq On : 20 Nov 2024 18:58
 Operator : JC\MD
 Sample : P4924-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-4

Quant Time: Nov 21 00:45:40 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

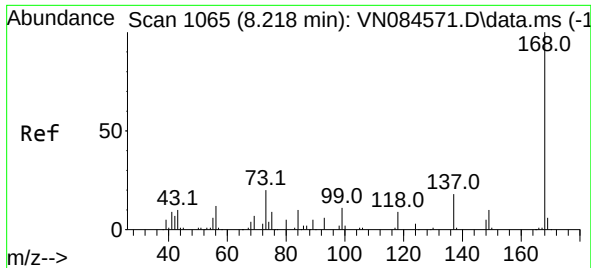
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	167209	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	311334	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	285582	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	121812	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	123383	51.089	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.180%			
35) Dibromofluoromethane	8.165	113	100805	47.835	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.660%			
50) Toluene-d8	10.565	98	369811	47.639	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.280%			
62) 4-Bromofluorobenzene	12.847	95	136023	46.885	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 93.760%			
Target Compounds						Qvalue
3) Chloromethane	2.359	50	639	Below Cal	#	41
6) Chloroethane	3.142	64	313	Below Cal	#	45
11) Tert butyl alcohol	5.541	59	205	0.643	ug/l #	73
16) Acetone	4.436	43	29166	39.405	ug/l	92
18) Methyl Acetate	5.018	43	7424	Below Cal	#	79
20) Methylene Chloride	5.271	84	2370	1.116	ug/l #	78
25) 2-Butanone	7.488	43	3299	2.928	ug/l	96
29) Tetrahydrofuran	7.841	42	247	0.330	ug/l #	34
31) Cyclohexane	8.218	56	3541	1.062	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	14482	4.955	ug/l #	50
37) Ethyl Acetate	7.565	43	3010	1.135	ug/l #	87
38) Carbon Tetrachloride	8.224	117	18475	5.655	ug/l #	15
43) Isopropyl Acetate	8.694	43	551644	113.840	ug/l #	64
45) 1,2-Dichloropropane	9.741	63	1383	0.628	ug/l #	44
48) Methyl methacrylate	9.665	41	3253	1.576	ug/l #	13
49) 1,4-Dioxane	9.724	88	75	2.051	ug/l #	23
51) 4-Methyl-2-Pentanone	10.441	43	5506	2.178	ug/l	91
53) t-1,3-Dichloropropene	10.718	75	755	0.223	ug/l #	43
54) cis-1,3-Dichloropropene	10.353	75	38734	10.796	ug/l #	63
56) Ethyl methacrylate	10.976	69	1526	0.510	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	5071	1.429	ug/l #	42
59) 2-Hexanone	11.200	43	61802	33.588	ug/l #	55
71) Bromoform	12.847	173	959	0.573	ug/l #	1
74) N-amyl acetate	12.488	43	735	0.202	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	70892	29.114	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	70892	69.071	ug/l #	11
88) 1,4-Dichlorobenzene	13.811	146	305	Below Cal	#	24

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

Quant Time: Nov 21 00:45:40 2024
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Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

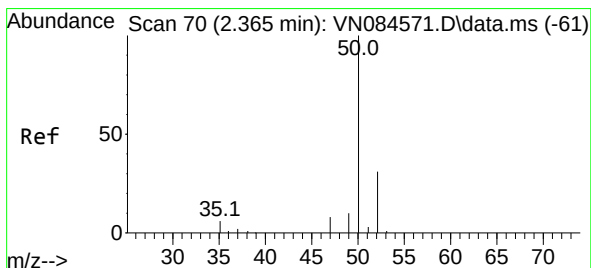
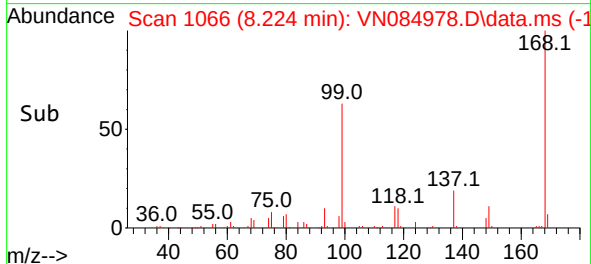
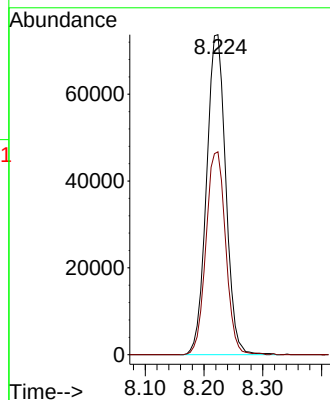
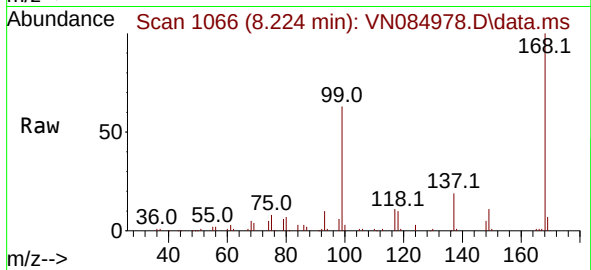




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN084978.D
Acq: 20 Nov 2024 18:58

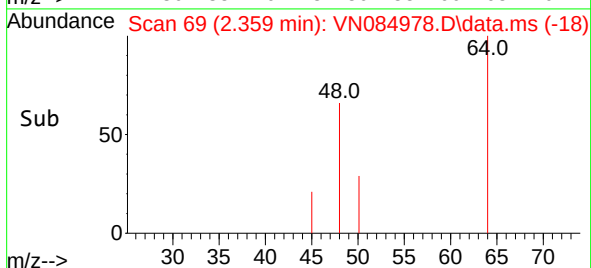
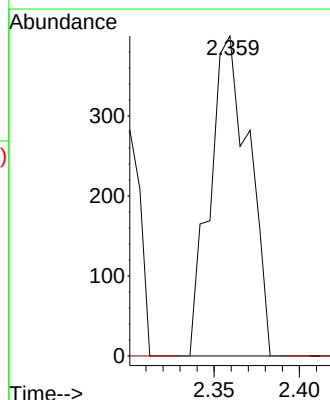
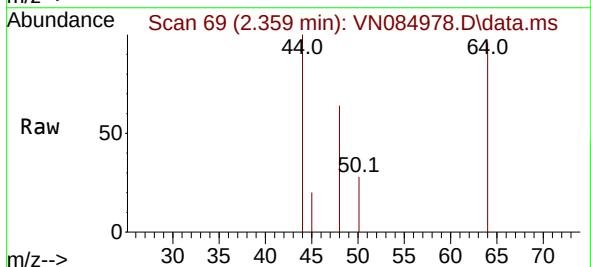
Instrument :
MSVOA_N
ClientSampleId :
MH-4

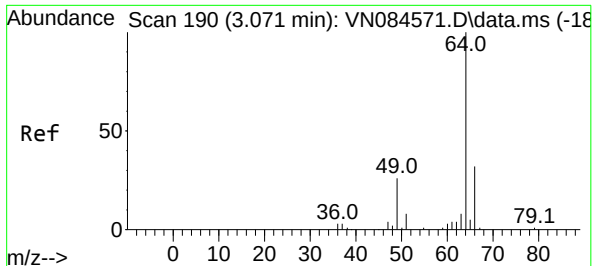
Tgt Ion:168 Resp: 167209
Ion Ratio Lower Upper
168 100
99 63.4 54.2 81.2



#3
Chloromethane
Concen: Below Cal
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN084978.D
Acq: 20 Nov 2024 18:58

Tgt Ion: 50 Resp: 639
Ion Ratio Lower Upper
50 100
52 0.0 26.8 40.2#

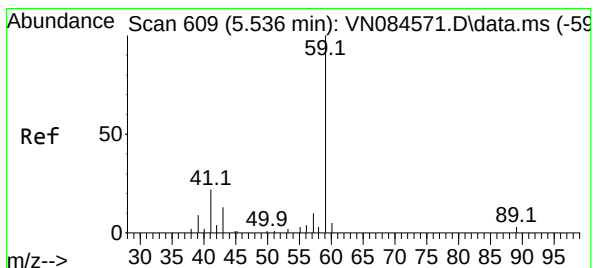
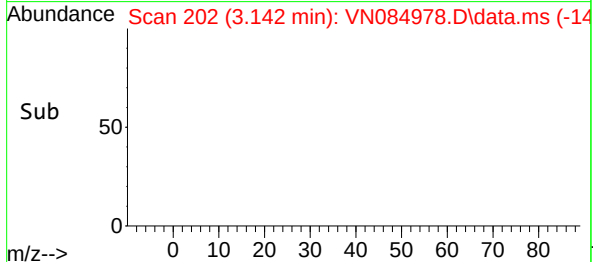
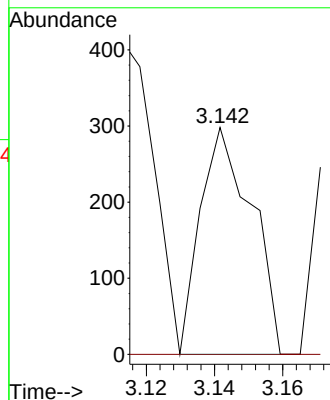
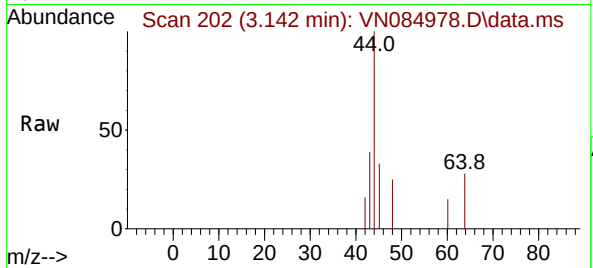




#6
Chloroethane
Concen: Below Cal
RT: 3.142 min Scan# 20
Delta R.T. 0.024 min
Lab File: VN084978.D
Acq: 20 Nov 2024 18:58

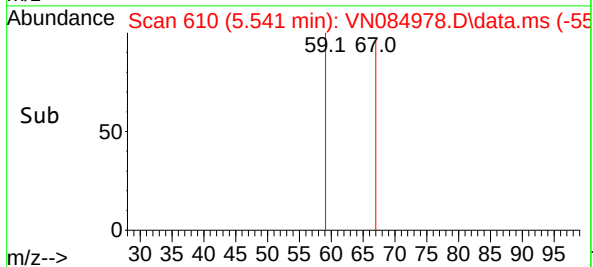
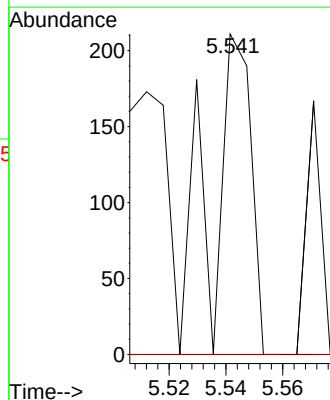
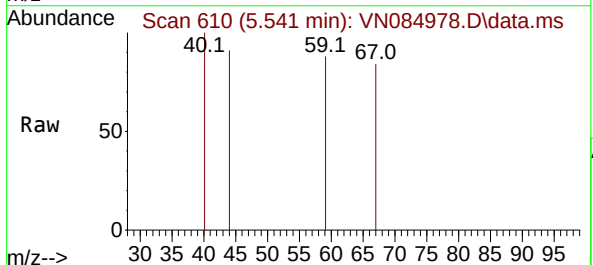
Instrument :
MSVOA_N
ClientSampleId :
MH-4

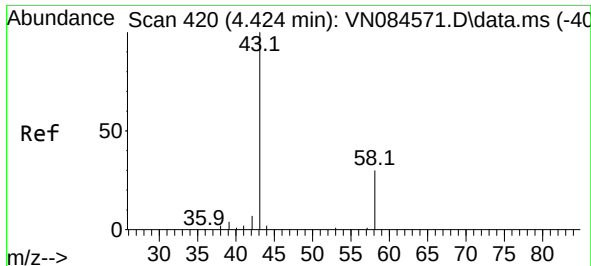
Tgt Ion: 64 Resp: 313
Ion Ratio Lower Upper
64 100
66 0.0 23.5 35.3#



#11
Tert butyl alcohol
Concen: 0.643 ug/l
RT: 5.541 min Scan# 610
Delta R.T. 0.018 min
Lab File: VN084978.D
Acq: 20 Nov 2024 18:58

Tgt Ion: 59 Resp: 205
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

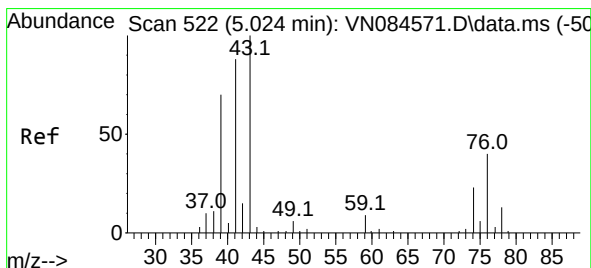
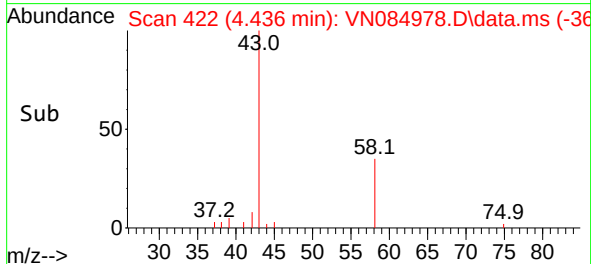
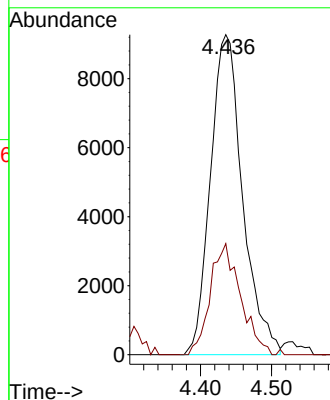
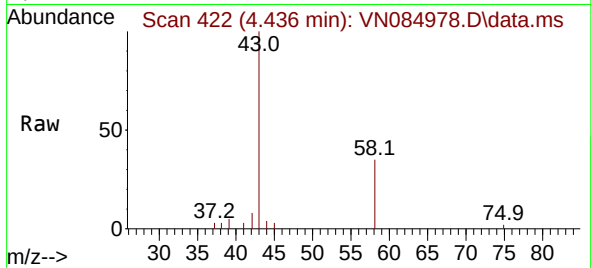




#16
Acetone
Concen: 39.405 ug/l
RT: 4.436 min Scan# 431
Delta R.T. 0.012 min
Lab File: VN084978.D
Acq: 20 Nov 2024 18:58

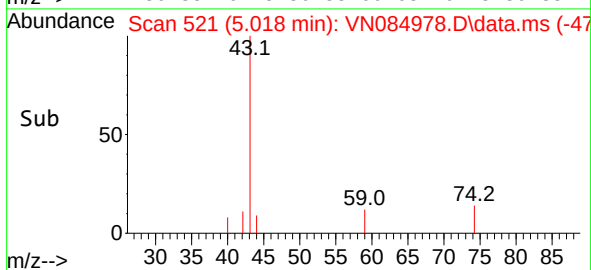
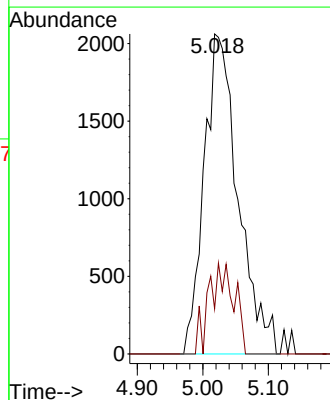
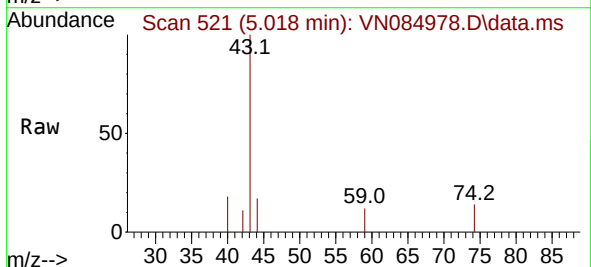
Instrument :
MSVOA_N
ClientSampleId :
MH-4

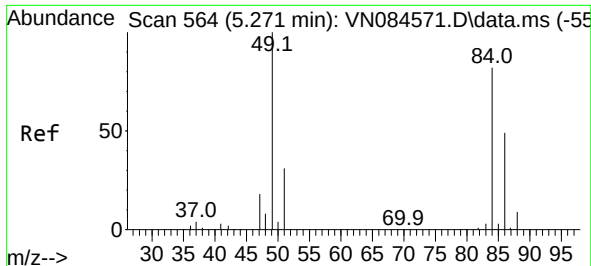
Tgt Ion: 43 Resp: 29166
Ion Ratio Lower Upper
43 100
58 34.7 24.4 36.6



#18
Methyl Acetate
Concen: Below Cal
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN084978.D
Acq: 20 Nov 2024 18:58

Tgt Ion: 43 Resp: 7424
Ion Ratio Lower Upper
43 100
74 13.8 19.2 28.8#

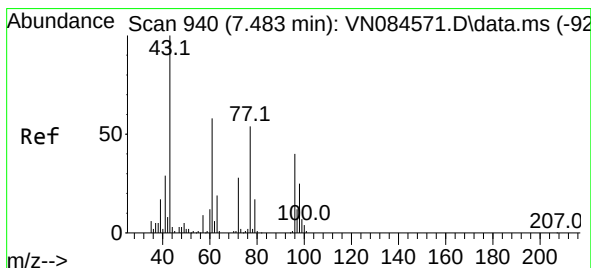
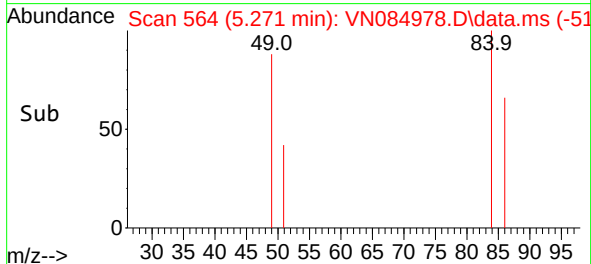
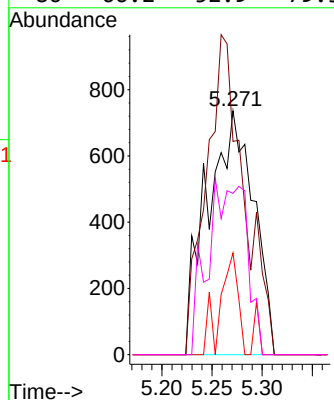
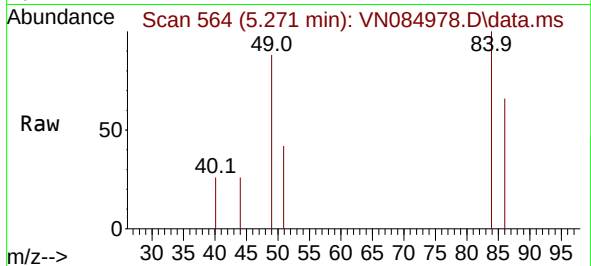




#20
Methylene Chloride
Concen: 1.116 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN084978.D
Acq: 20 Nov 2024 18:58

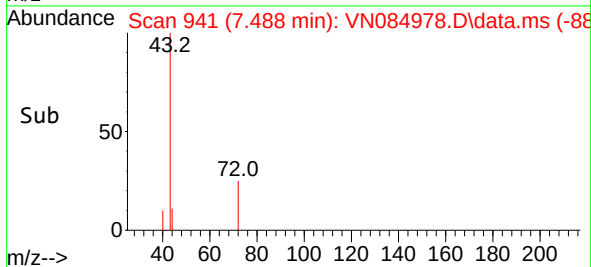
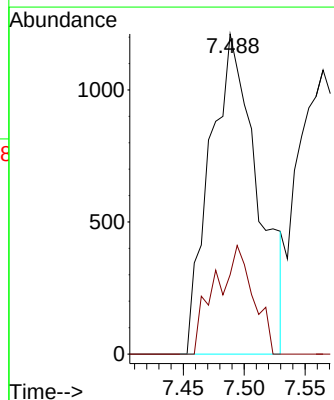
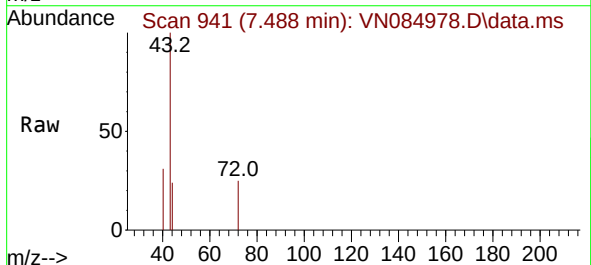
Instrument :
MSVOA_N
ClientSampleId :
MH-4

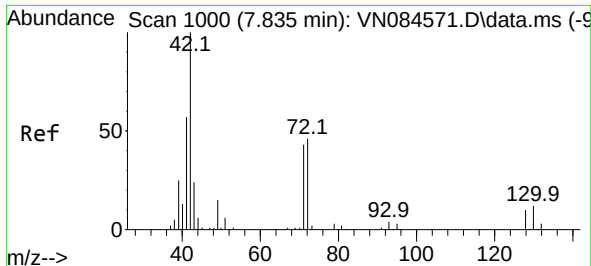
Tgt Ion: 84	Resp:	2370	
Ion	Ratio	Lower	Upper
84	100		
49	87.5	107.2	160.8#
51	41.7	31.8	47.8
86	66.2	52.9	79.3



#25
2-Butanone
Concen: 2.928 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN084978.D
Acq: 20 Nov 2024 18:58

Tgt Ion: 43	Resp:	3299	
Ion	Ratio	Lower	Upper
43	100		
72	24.8	21.4	32.2





#29

Tetrahydrofuran

Concen: 0.330 ug/l

RT: 7.841 min Scan# 1065

Delta R.T. 0.006 min

Lab File: VN084978.D

Acq: 20 Nov 2024 18:58

Instrument :

MSVOA_N

ClientSampleId :

MH-4

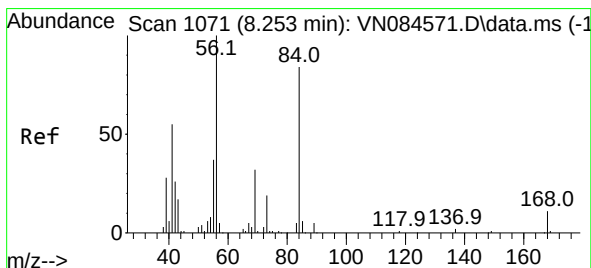
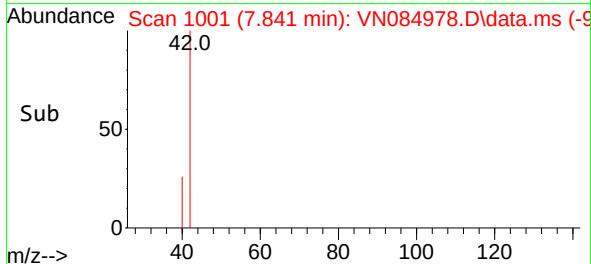
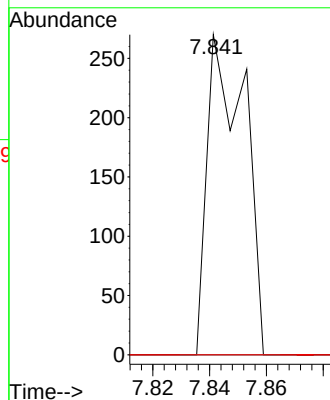
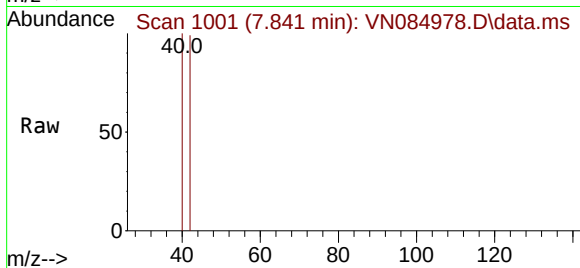
Tgt Ion: 42 Resp: 247

Ion Ratio Lower Upper

42 100

72 0.0 34.6 51.8#

71 0.0 32.2 48.4#



#31

Cyclohexane

Concen: 1.062 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN084978.D

Acq: 20 Nov 2024 18:58

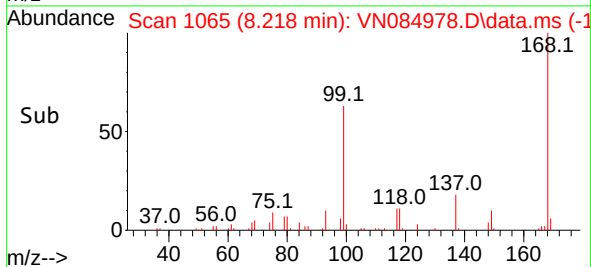
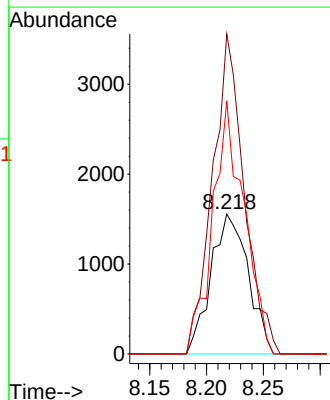
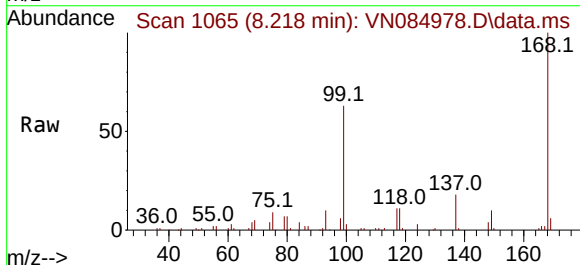
Tgt Ion: 56 Resp: 3541

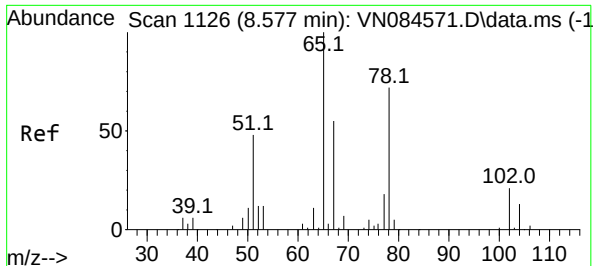
Ion Ratio Lower Upper

56 100

69 228.6 23.8 35.6#

84 180.8 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 51.089 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN084978.D

Acq: 20 Nov 2024 18:58

Instrument :

MSVOA_N

ClientSampleId :

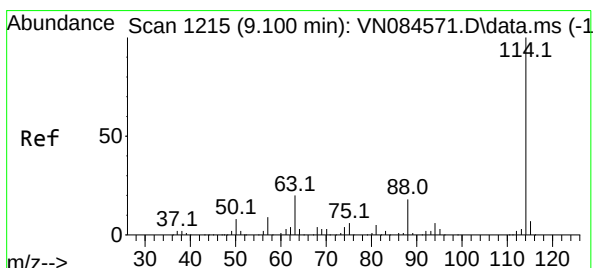
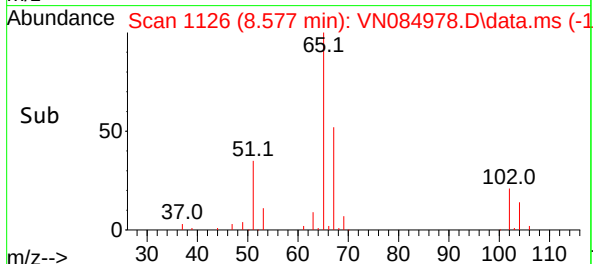
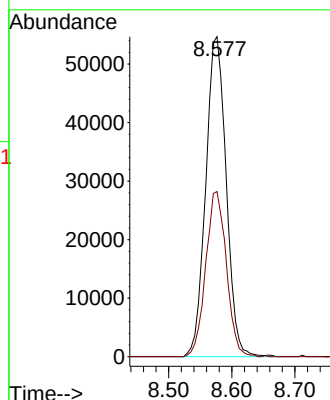
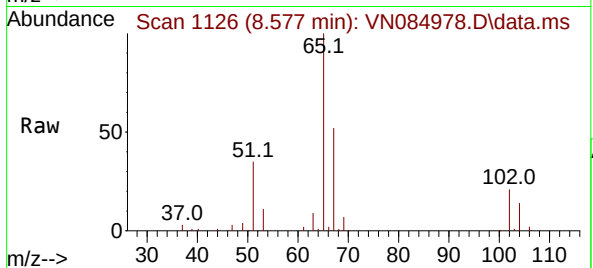
MH-4

Tgt Ion: 65 Resp: 123383

Ion Ratio Lower Upper

65 100

67 51.9 0.0 102.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN084978.D

Acq: 20 Nov 2024 18:58

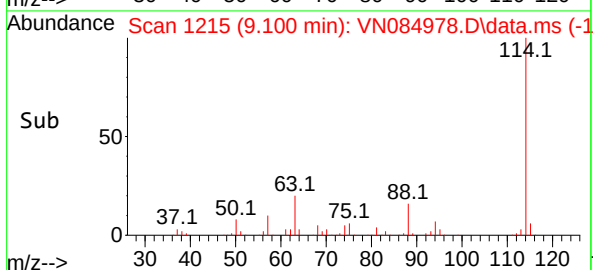
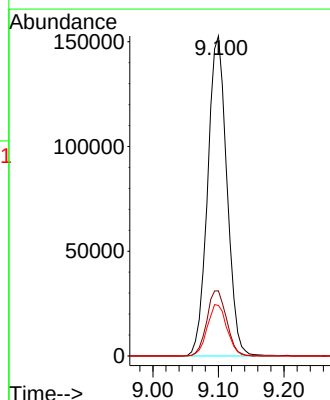
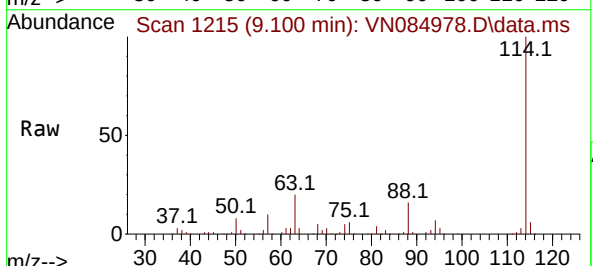
Tgt Ion: 114 Resp: 311334

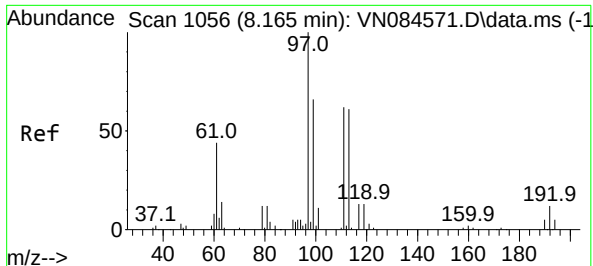
Ion Ratio Lower Upper

114 100

63 20.4 0.0 43.8

88 15.8 0.0 31.6

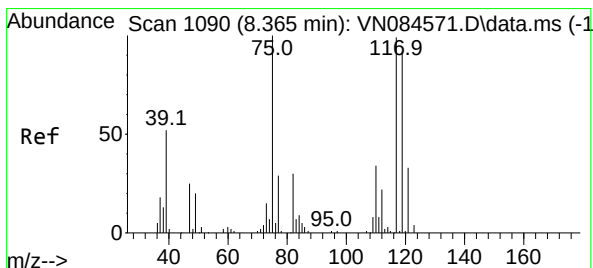
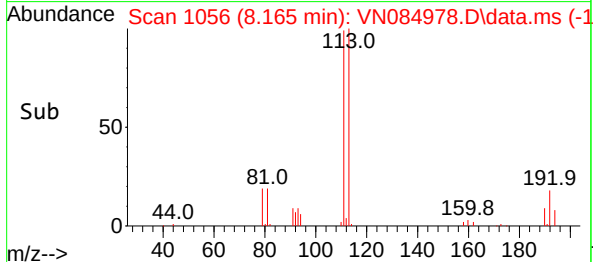
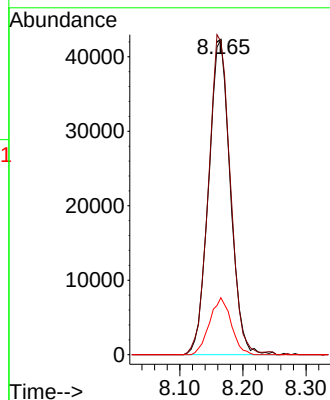
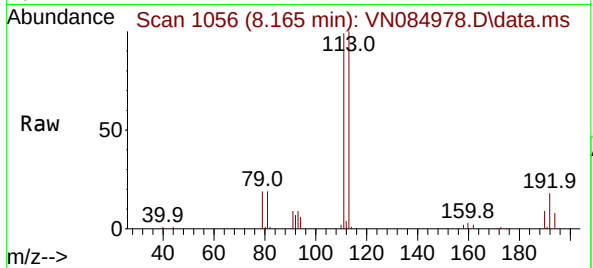




#35
 Dibromofluoromethane
 Concen: 47.835 ug/l
 RT: 8.165 min Scan# 1056
 Delta R.T. -0.000 min
 Lab File: VN084978.D
 Acq: 20 Nov 2024 18:58

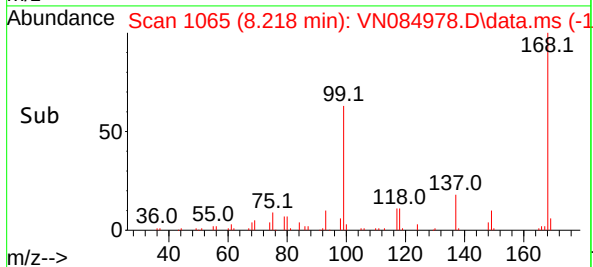
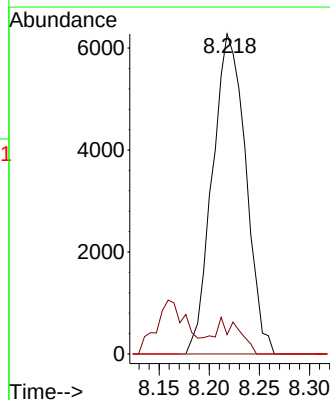
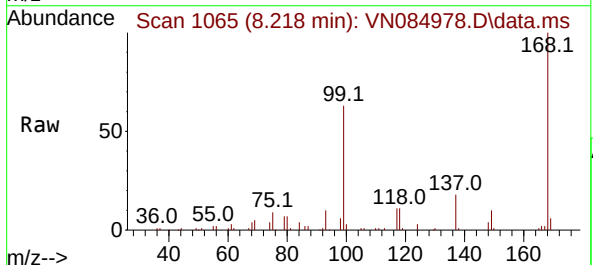
Instrument :
 MSVOA_N
 ClientSampleId :
 MH-4

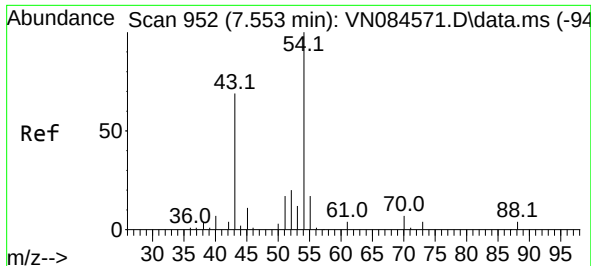
Tgt Ion:113 Resp: 100805
 Ion Ratio Lower Upper
 113 100
 111 101.5 83.3 124.9
 192 18.0 13.5 20.3



#36
 1,1-Dichloropropene
 Concen: 4.955 ug/l
 RT: 8.218 min Scan# 1065
 Delta R.T. -0.153 min
 Lab File: VN084978.D
 Acq: 20 Nov 2024 18:58

Tgt Ion: 75 Resp: 14482
 Ion Ratio Lower Upper
 75 100
 110 8.3 16.9 50.7#
 77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 1.135 ug/l

RT: 7.565 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN084978.D

Acq: 20 Nov 2024 18:58

Instrument :

MSVOA_N

ClientSampleId :

MH-4

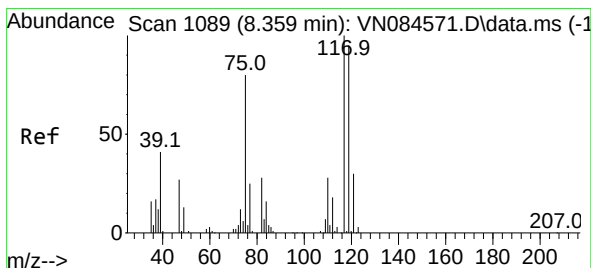
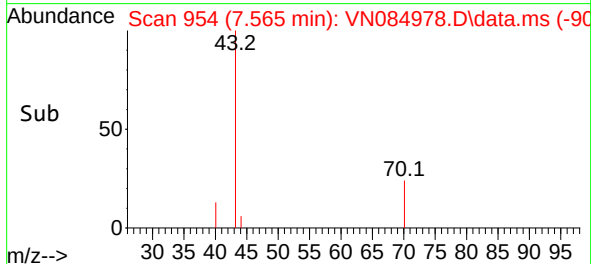
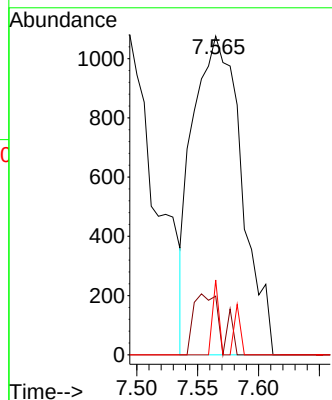
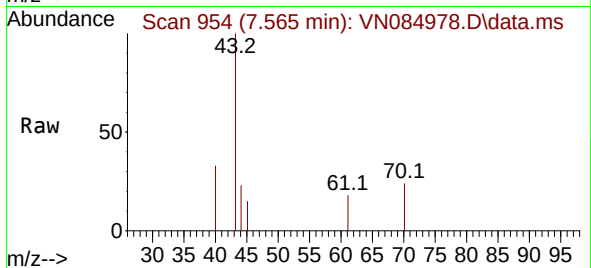
Tgt Ion: 43 Resp: 3010

Ion Ratio Lower Upper

43 100

61 10.8 10.7 16.1

70 3.0 8.8 13.2#



#38

Carbon Tetrachloride

Concen: 5.655 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN084978.D

Acq: 20 Nov 2024 18:58

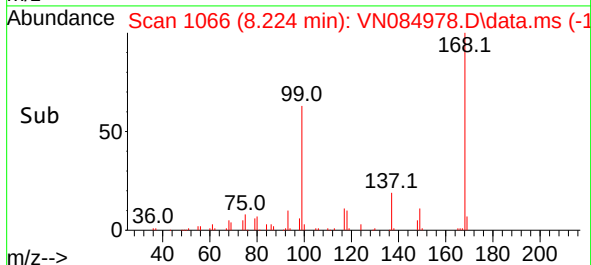
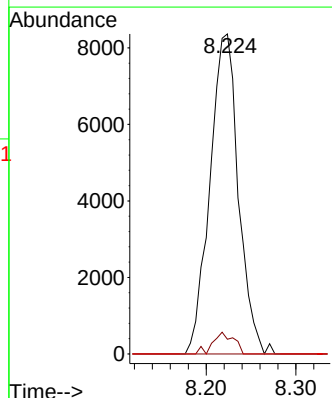
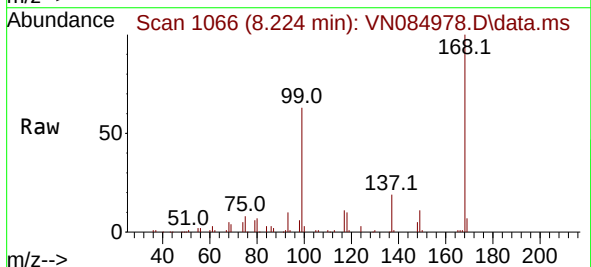
Tgt Ion: 117 Resp: 18475

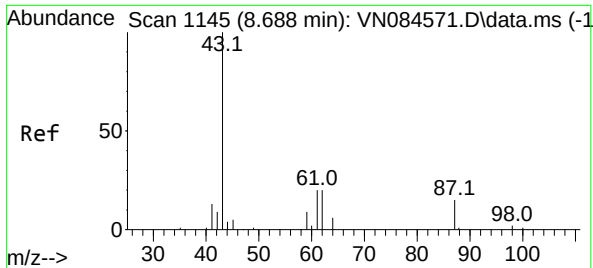
Ion Ratio Lower Upper

117 100

119 4.6 78.7 118.1#

121 0.0 24.4 36.6#

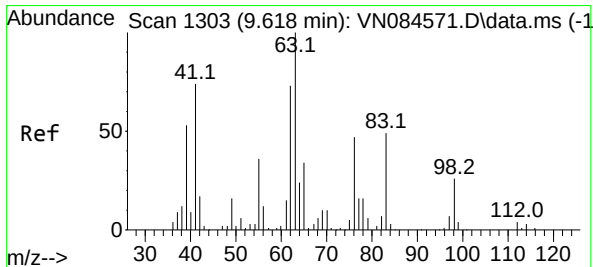
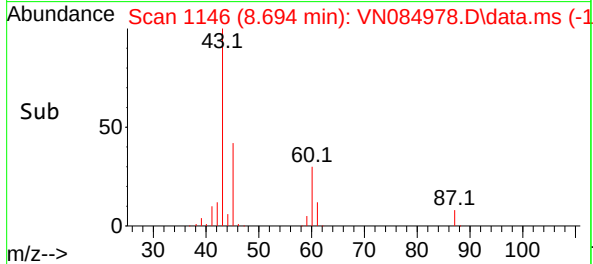
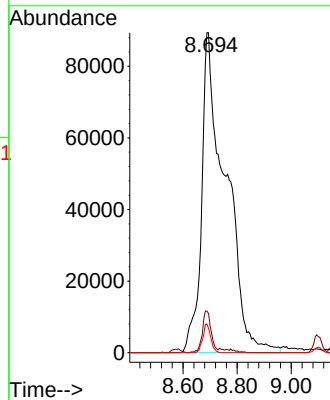
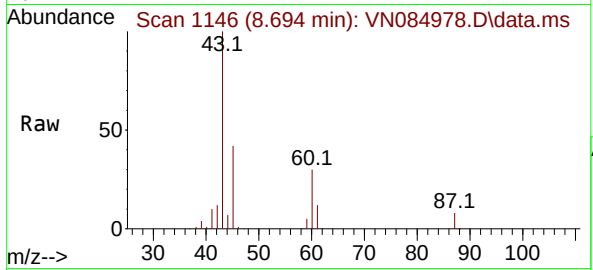




#43
Isopropyl Acetate
Concen: 113.840 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VN084978.D
Acq: 20 Nov 2024 18:58

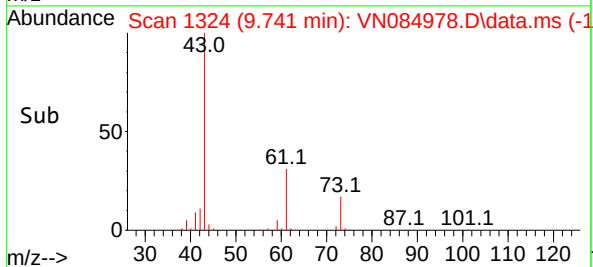
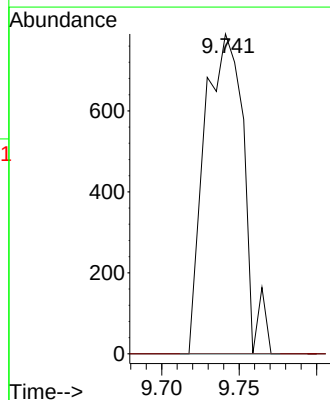
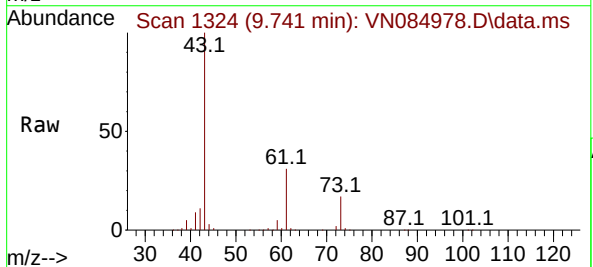
Instrument :
MSVOA_N
ClientSampleId :
MH-4

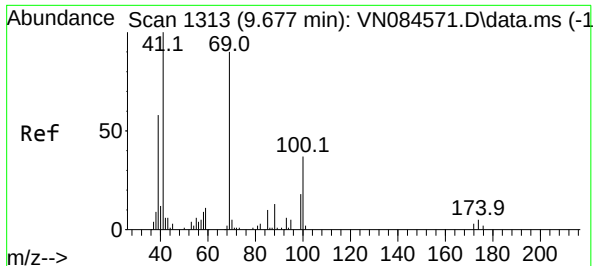
Tgt Ion: 43 Resp: 551644
Ion Ratio Lower Upper
43 100
61 4.8 20.4 30.6#
87 2.9 10.3 15.5#



#45
1,2-Dichloropropane
Concen: 0.628 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.123 min
Lab File: VN084978.D
Acq: 20 Nov 2024 18:58

Tgt Ion: 63 Resp: 1383
Ion Ratio Lower Upper
63 100
65 0.0 24.6 37.0#





#48

Methyl methacrylate

Concen: 1.576 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.012 min

Lab File: VN084978.D

Acq: 20 Nov 2024 18:58

Instrument :

MSVOA_N

ClientSampleId :

MH-4

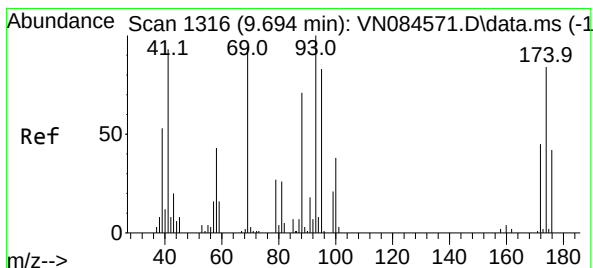
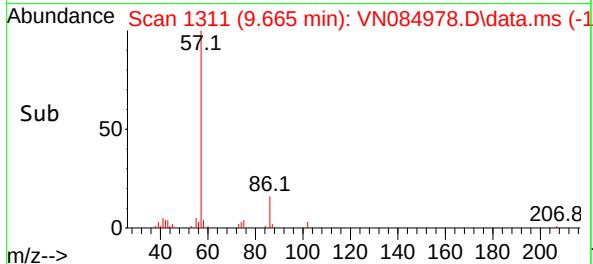
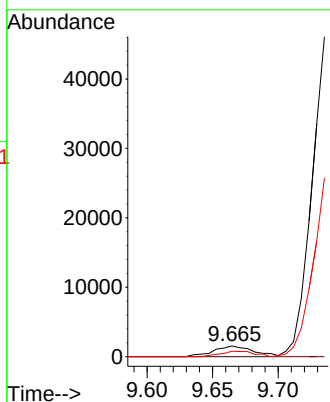
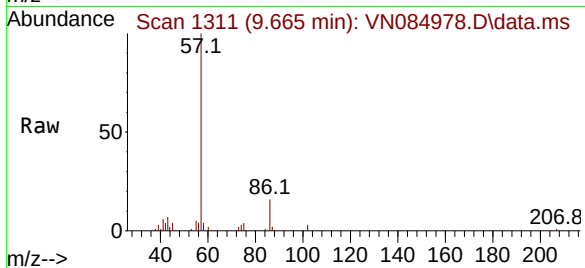
Tgt Ion: 41 Resp: 3253

Ion Ratio Lower Upper

41 100

69 0.0 67.1 100.7#

39 0.0 45.8 68.6#



#49

1,4-Dioxane

Concen: 2.051 ug/l

RT: 9.724 min Scan# 1321

Delta R.T. 0.029 min

Lab File: VN084978.D

Acq: 20 Nov 2024 18:58

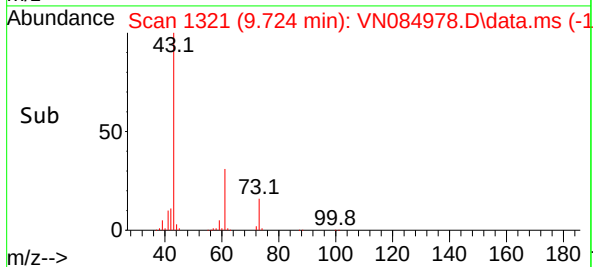
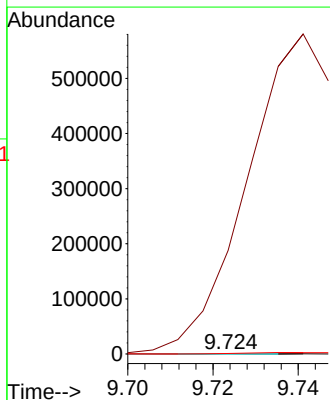
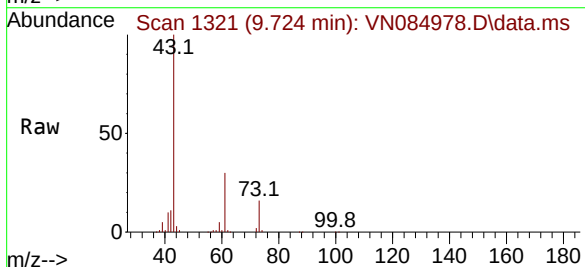
Tgt Ion: 88 Resp: 75

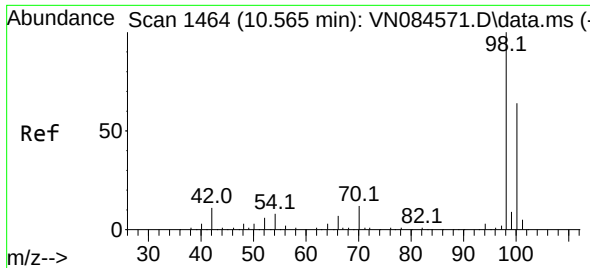
Ion Ratio Lower Upper

88 100

43 0.0 25.3 37.9#

58 0.0 56.4 84.6#

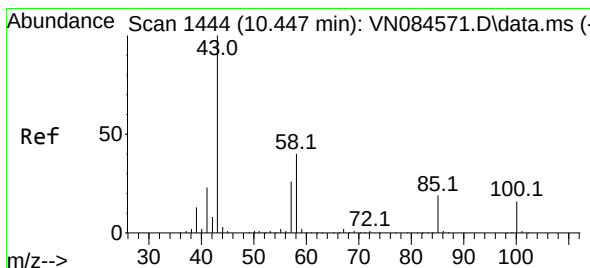
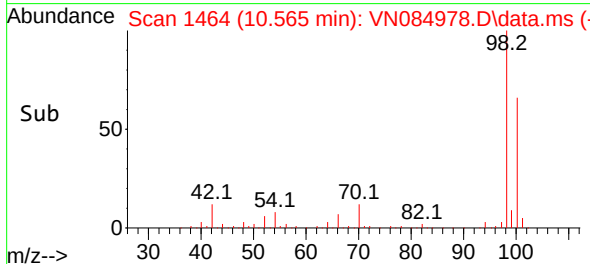
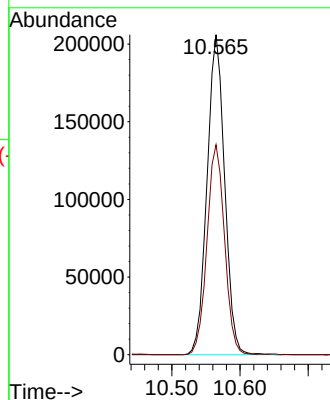
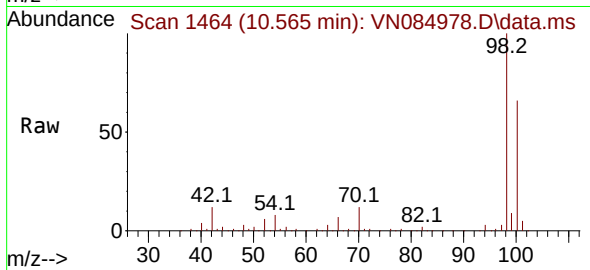




#50
Toluene-d8
Concen: 47.639 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084978.D
Acq: 20 Nov 2024 18:58

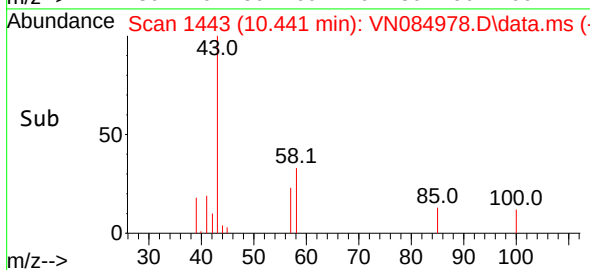
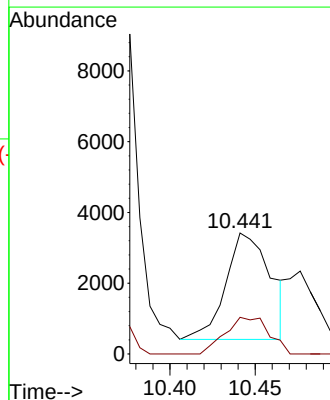
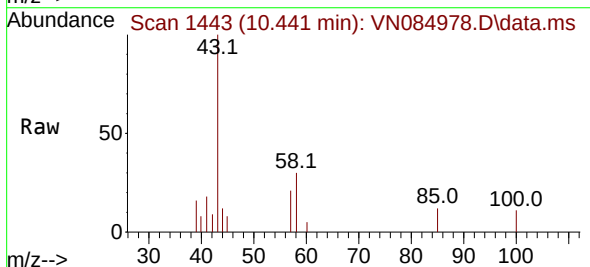
Instrument :
MSVOA_N
ClientSampleId :
MH-4

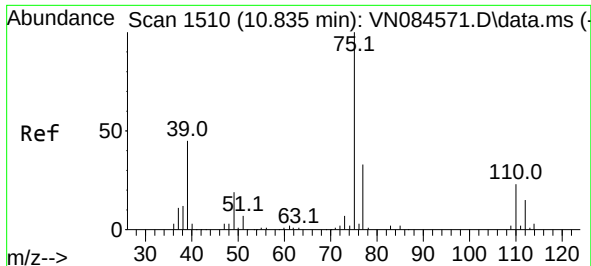
Tgt Ion: 98 Resp: 369811
Ion Ratio Lower Upper
98 100
100 65.4 52.7 79.1



#51
4-Methyl-2-Pentanone
Concen: 2.178 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN084978.D
Acq: 20 Nov 2024 18:58

Tgt Ion: 43 Resp: 5506
Ion Ratio Lower Upper
43 100
58 33.8 31.6 47.4

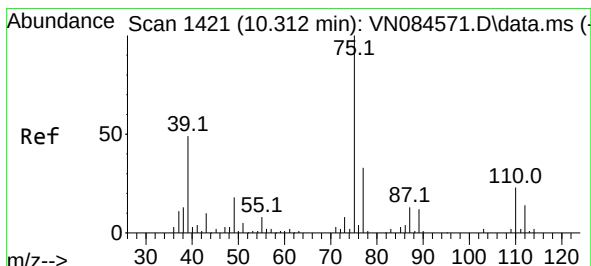
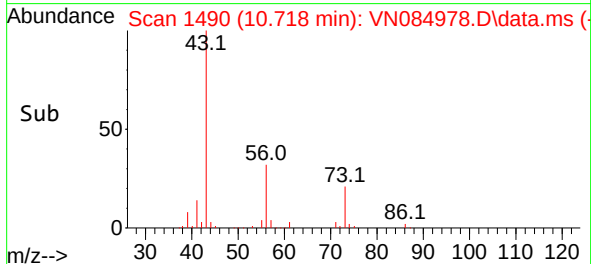
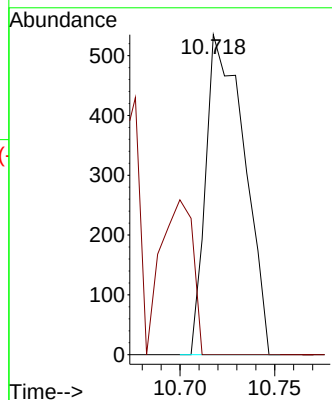
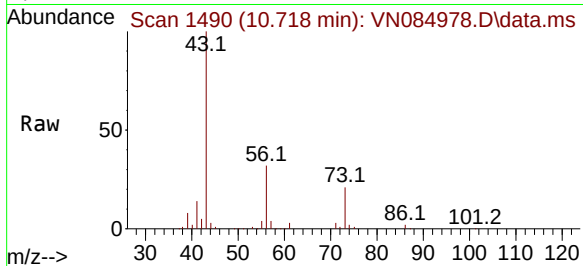




#53
t-1,3-Dichloropropene
Concen: 0.223 ug/l
RT: 10.718 min Scan# 1490
Delta R.T. -0.118 min
Lab File: VN084978.D
Acq: 20 Nov 2024 18:58

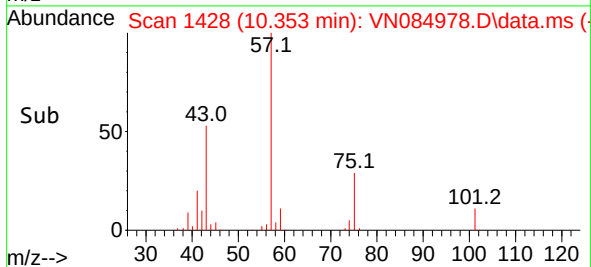
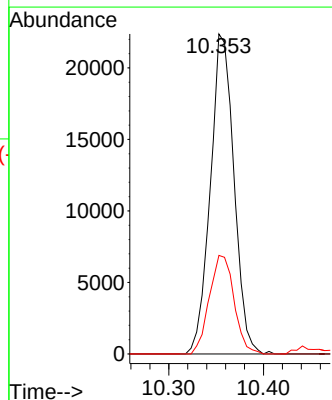
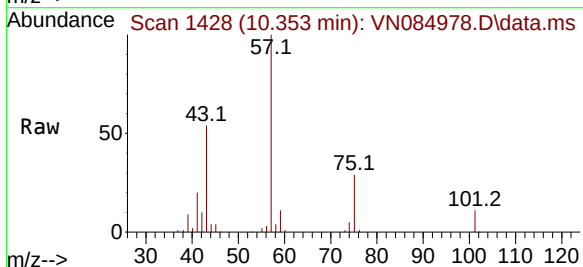
Instrument :
MSVOA_N
ClientSampleId :
MH-4

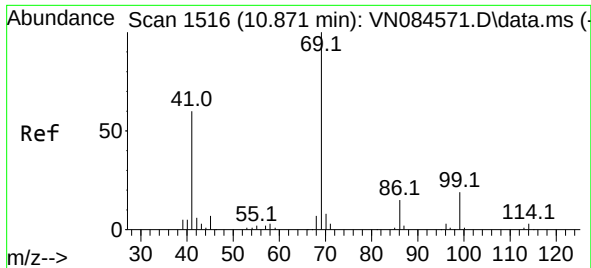
Tgt Ion: 75 Resp: 755
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#



#54
cis-1,3-Dichloropropene
Concen: 10.796 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.041 min
Lab File: VN084978.D
Acq: 20 Nov 2024 18:58

Tgt Ion: 75 Resp: 38734
Ion Ratio Lower Upper
75 100
77 0.0 24.2 36.2#
39 30.8 38.7 58.1#

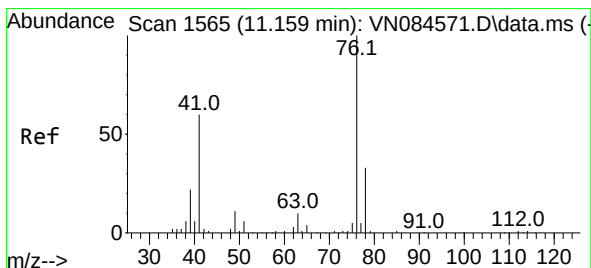
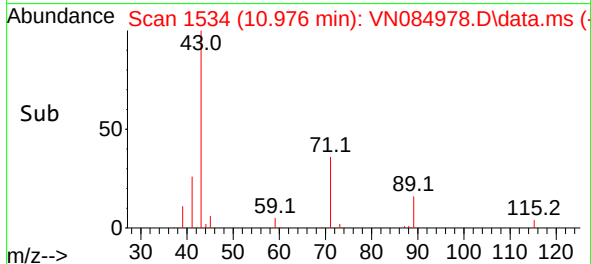
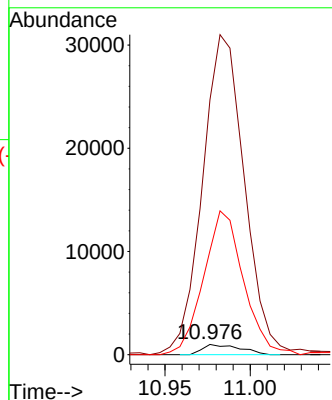
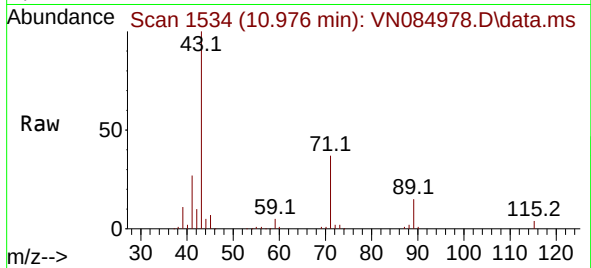




#56
Ethyl methacrylate
Concen: 0.510 ug/l
RT: 10.976 min Scan# 1534
Delta R.T. 0.106 min
Lab File: VN084978.D
Acq: 20 Nov 2024 18:58

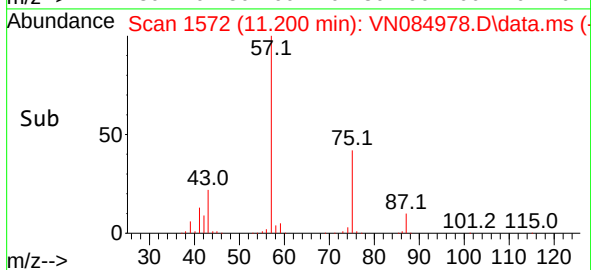
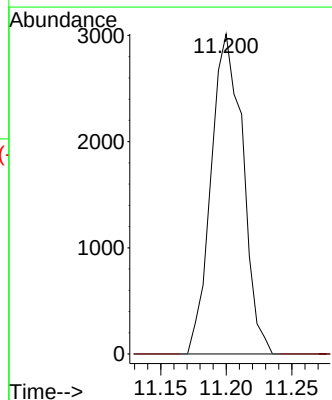
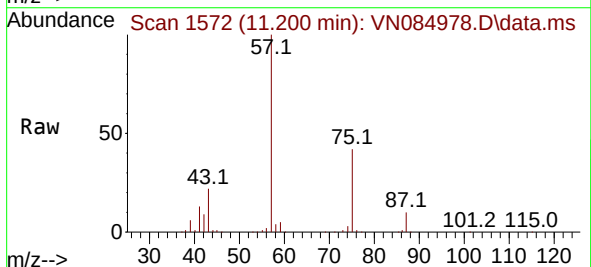
Instrument :
MSVOA_N
ClientSampleId :
MH-4

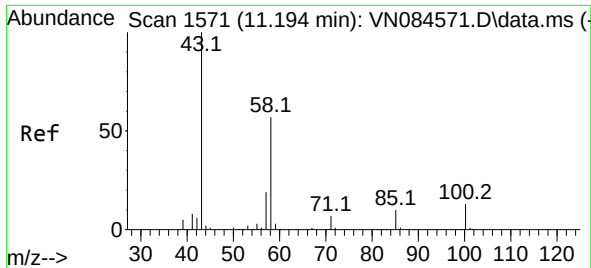
Tgt Ion: 69 Resp: 1526
Ion Ratio Lower Upper
69 100
41 3517.6 53.3 79.9#
39 1486.6 28.8 43.2#



#57
1,3-Dichloropropane
Concen: 1.429 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN084978.D
Acq: 20 Nov 2024 18:58

Tgt Ion: 76 Resp: 5071
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

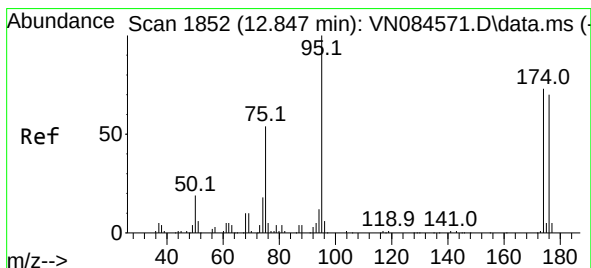
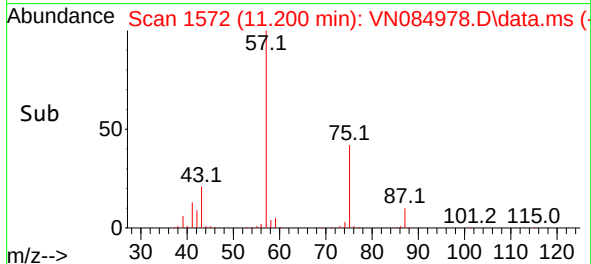
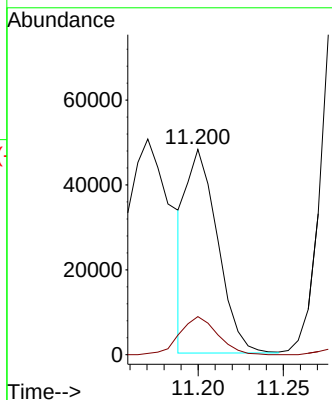
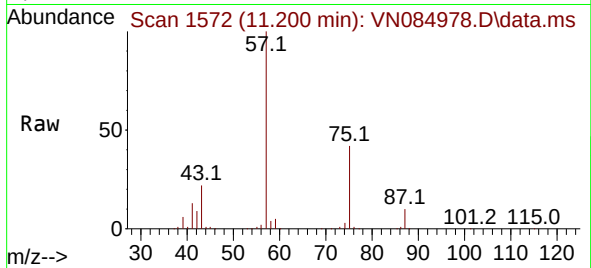




#59
2-Hexanone
Concen: 33.588 ug/l
RT: 11.200 min Scan# 111
Delta R.T. 0.006 min
Lab File: VN084978.D
Acq: 20 Nov 2024 18:58

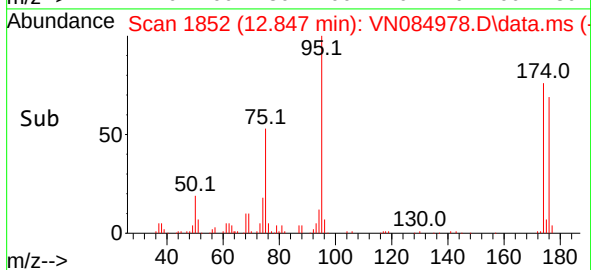
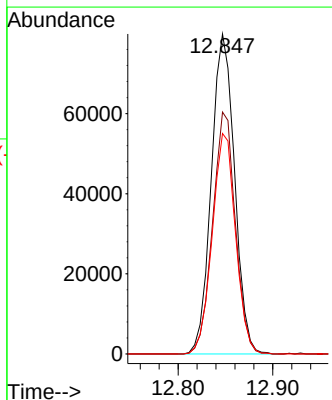
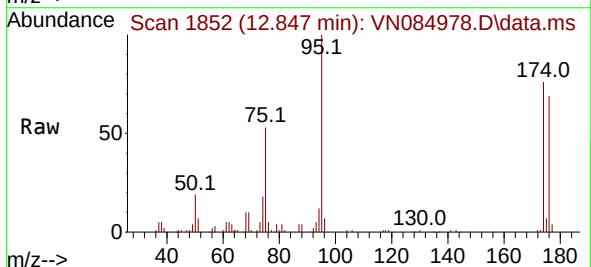
Instrument :
MSVOA_N
ClientSampleId :
MH-4

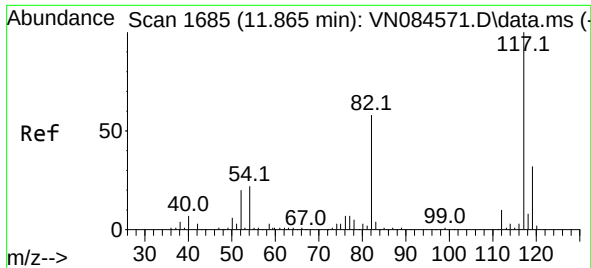
Tgt Ion: 43 Resp: 61802
Ion Ratio Lower Upper
43 100
58 22.4 27.3 81.8#



#62
4-Bromofluorobenzene
Concen: 46.885 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084978.D
Acq: 20 Nov 2024 18:58

Tgt Ion: 95 Resp: 136023
Ion Ratio Lower Upper
95 100
174 74.2 0.0 145.2
176 69.3 0.0 140.0

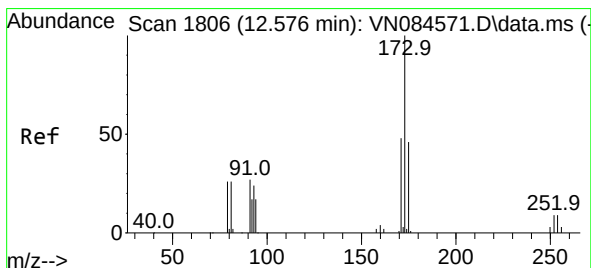
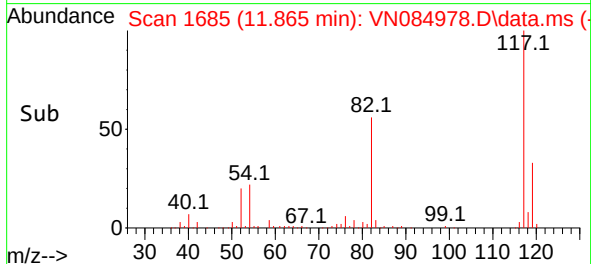
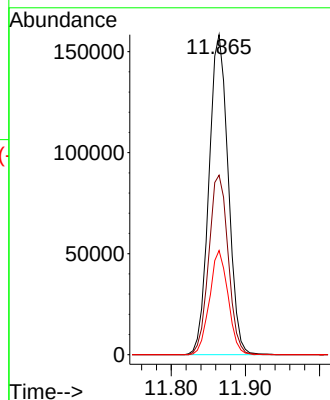
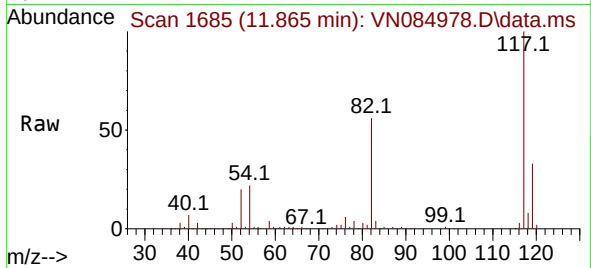




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN084978.D
Acq: 20 Nov 2024 18:58

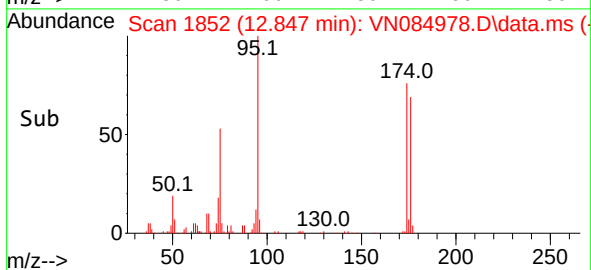
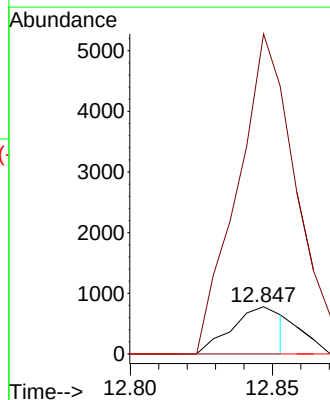
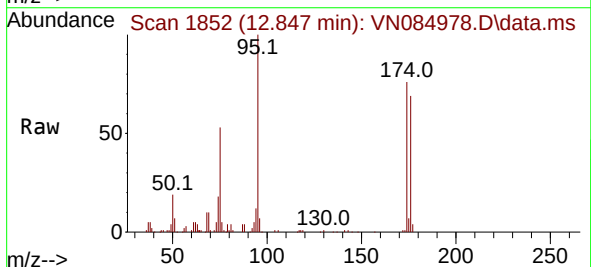
Instrument :
MSVOA_N
ClientSampleId :
MH-4

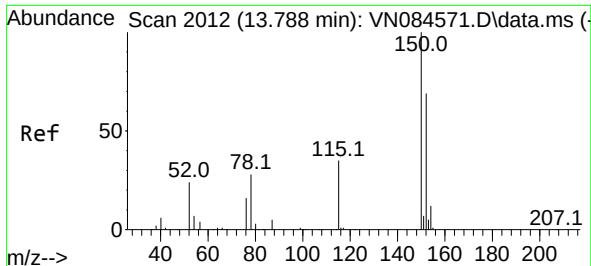
Tgt Ion:117 Resp: 285582
Ion Ratio Lower Upper
117 100
82 56.1 47.2 70.8
119 32.6 25.4 38.0



#71
Bromoform
Concen: 0.573 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.270 min
Lab File: VN084978.D
Acq: 20 Nov 2024 18:58

Tgt Ion:173 Resp: 959
Ion Ratio Lower Upper
173 100
175 611.4 23.5 70.6#
254 0.0 0.0 0.0

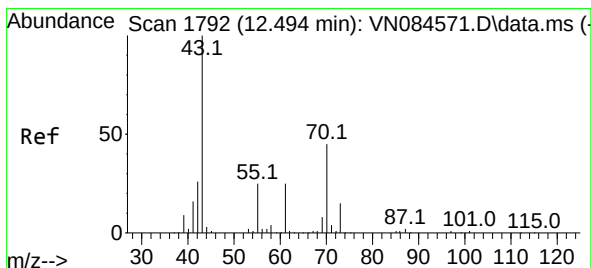
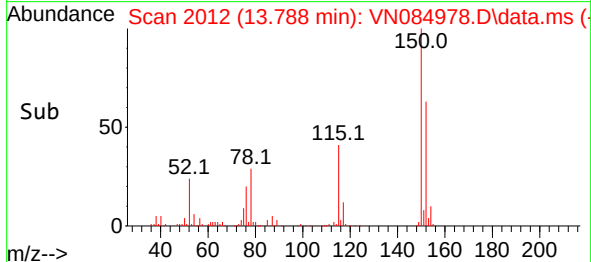
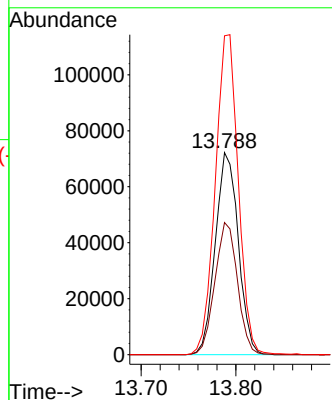
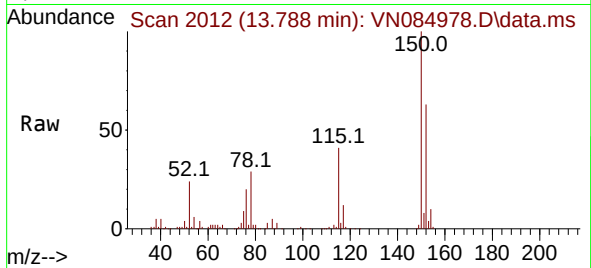




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN084978.D
Acq: 20 Nov 2024 18:58

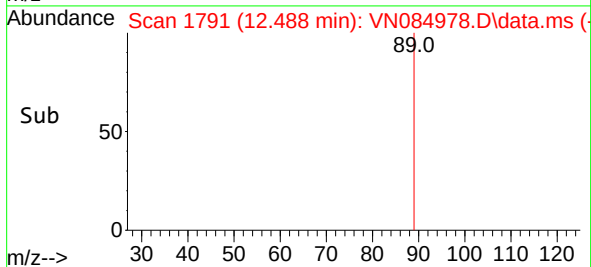
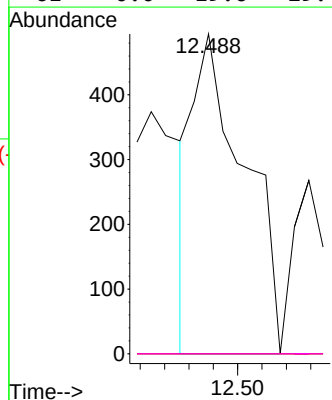
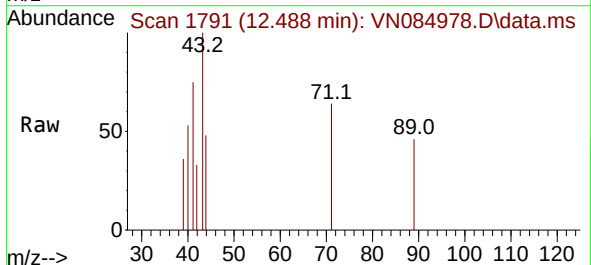
Instrument :
MSVOA_N
ClientSampleId :
MH-4

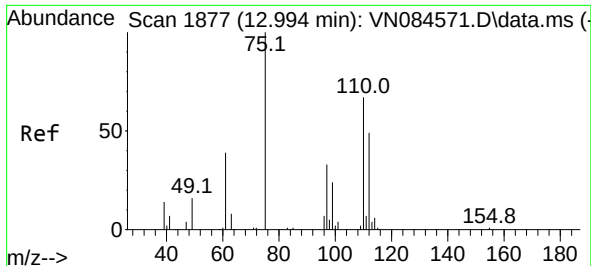
Tgt Ion:152 Resp: 121812
Ion Ratio Lower Upper
152 100
115 64.4 31.3 93.9
150 158.5 0.0 349.8



#74
N-ethyl acetate
Concen: 0.202 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.006 min
Lab File: VN084978.D
Acq: 20 Nov 2024 18:58

Tgt Ion: 43 Resp: 735
Ion Ratio Lower Upper
43 100
70 0.0 34.4 51.6#
55 0.0 19.6 29.4#
61 0.0 19.6 29.4#

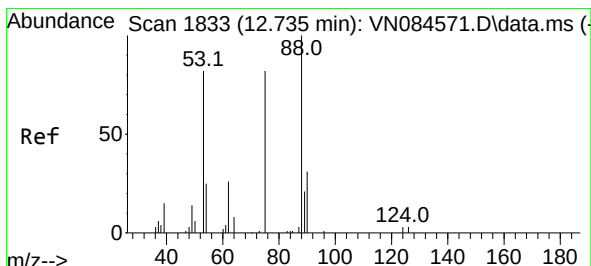
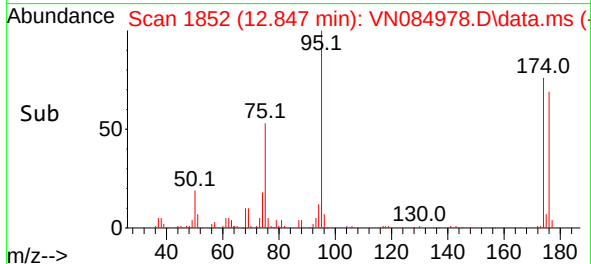
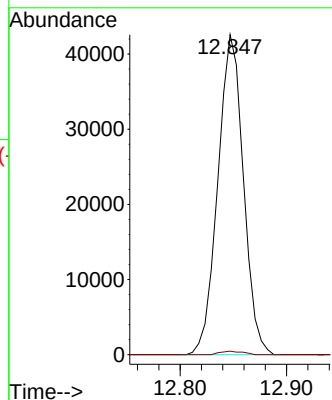
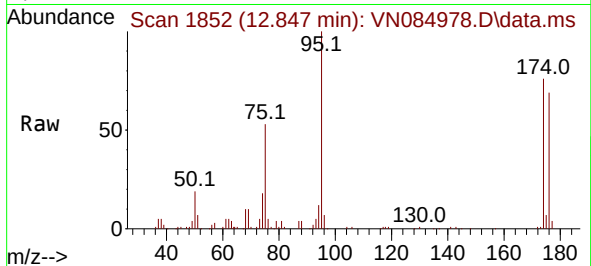




#76
1,2,3-Trichloropropane
Concen: 29.114 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN084978.D
Acq: 20 Nov 2024 18:58

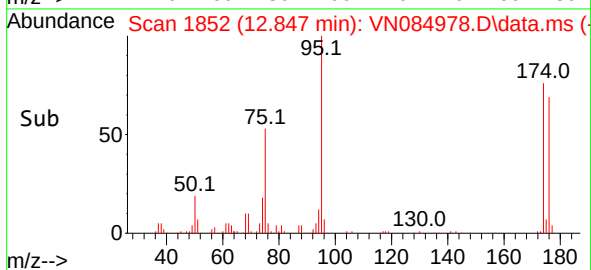
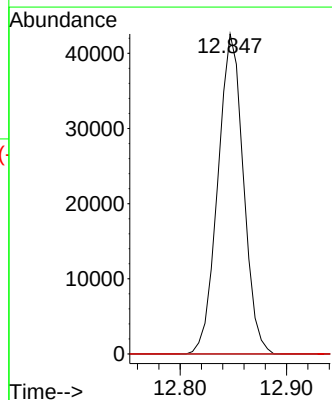
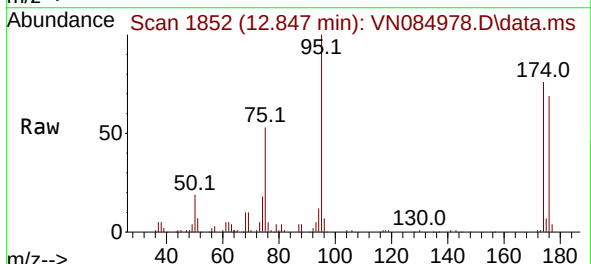
Instrument :
MSVOA_N
ClientSampleId :
MH-4

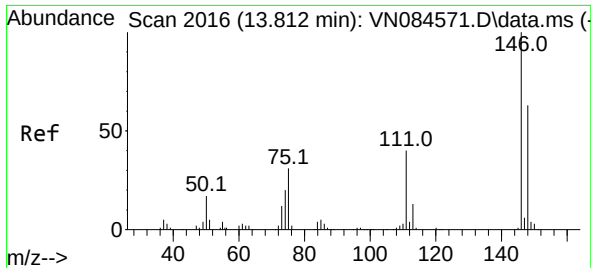
Tgt Ion: 75 Resp: 70892
Ion Ratio Lower Upper
75 100
77 1.0 96.9 290.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 69.071 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084978.D
Acq: 20 Nov 2024 18:58

Tgt Ion: 75 Resp: 70892
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 35.5 53.3#





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.811 min Scan# 20

Delta R.T. -0.001 min

Lab File: VN084978.D

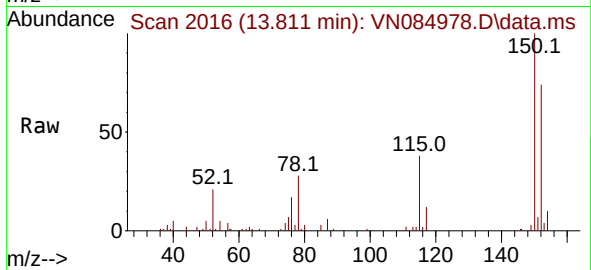
Acq: 20 Nov 2024 18:58

Instrument :

MSVOA_N

ClientSampleId :

MH-4



Tgt Ion:146 Resp: 305

Ion Ratio Lower Upper

146 100

111 0.0 21.2 63.6#

148 0.0 31.9 95.9#

