

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112024\
 Data File : VN084980.D
 Acq On : 20 Nov 2024 19:46
 Operator : JC\MD
 Sample : P4925-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 21 00:46:53 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)

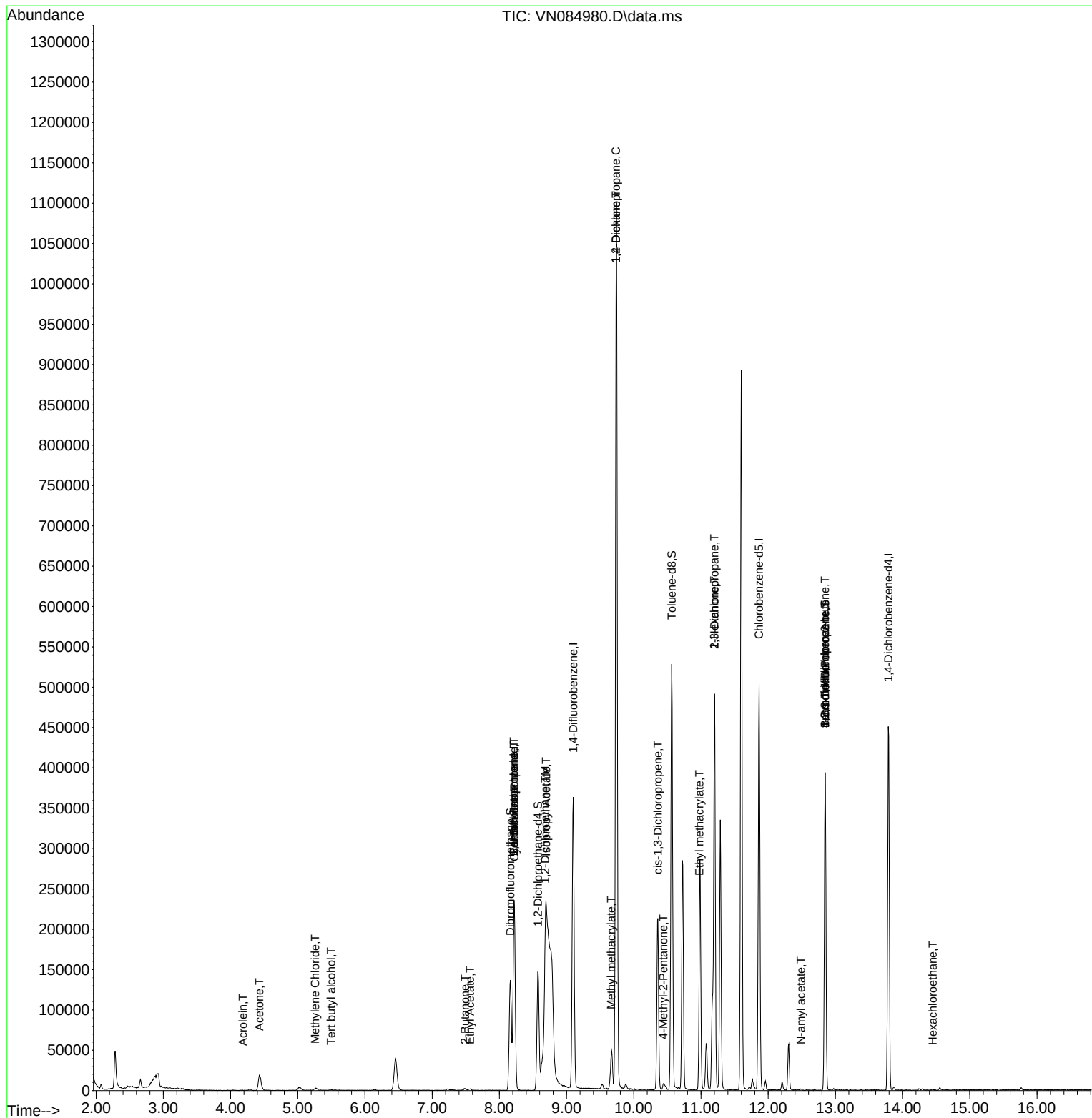
Internal Standards						
1) Pentafluorobenzene	8.218	168	168905	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	307008	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	280273	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	122809	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	123662	50.690	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.380%			
35) Dibromofluoromethane	8.165	113	99557	47.908	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.820%			
50) Toluene-d8	10.565	98	365021	47.684	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.360%			
62) 4-Bromofluorobenzene	12.847	95	136874	47.843	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.680%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	516	Below Cal	#	41
6) Chloroethane	3.147	64	202	Below Cal	#	45
11) Tert butyl alcohol	5.494	59	588	1.826	ug/l #	73
13) Acrolein	4.183	56	411	1.280	ug/l #	30
16) Acetone	4.430	43	35748	48.428	ug/l #	83
18) Methyl Acetate	5.036	43	8895	Below Cal	#	51
20) Methylene Chloride	5.259	84	2185	1.018	ug/l #	84
25) 2-Butanone	7.488	43	4554	4.001	ug/l #	84
31) Cyclohexane	8.224	56	3927	1.166	ug/l #	31
36) 1,1-Dichloropropene	8.218	75	13966	4.846	ug/l #	50
37) Ethyl Acetate	7.565	43	3001	1.148	ug/l #	92
38) Carbon Tetrachloride	8.218	117	18776	5.829	ug/l #	15
42) 1,2-Dichloroethane	8.682	62	1220	0.407	ug/l #	75
43) Isopropyl Acetate	8.694	43	644785	135.119	ug/l #	64
45) 1,2-Dichloropropane	9.735	63	1552	0.715	ug/l #	44
48) Methyl methacrylate	9.665	41	3006	1.477	ug/l #	44
49) 1,4-Dioxane	9.735	88	122	3.383	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	8676	3.481	ug/l #	79
54) cis-1,3-Dichloropropene	10.359	75	38521	10.888	ug/l #	64
56) Ethyl methacrylate	10.976	69	1656	0.561	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	5029	1.437	ug/l #	42
59) 2-Hexanone	11.200	43	61499	33.895	ug/l #	56
71) Bromoform	12.847	173	438	0.267	ug/l #	30
74) N-amyl acetate	12.488	43	1294	0.353	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	72769	29.642	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	72769	70.324	ug/l #	11
88) 1,4-Dichlorobenzene	13.800	146	54	Below Cal	#	1
90) Hexachloroethane	14.447	117	386	0.253	ug/l #	15

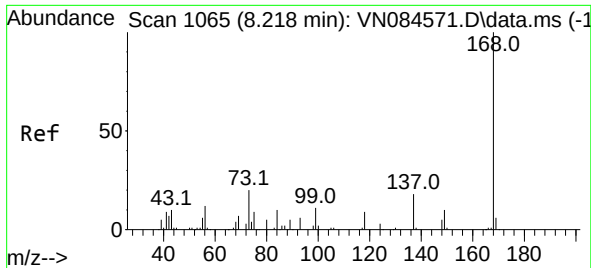
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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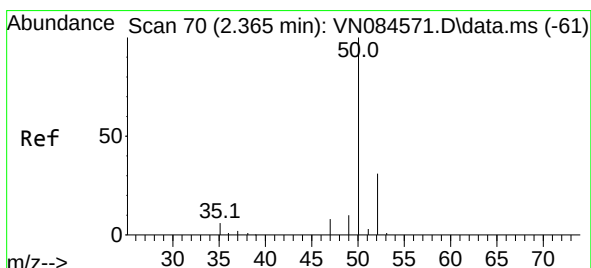
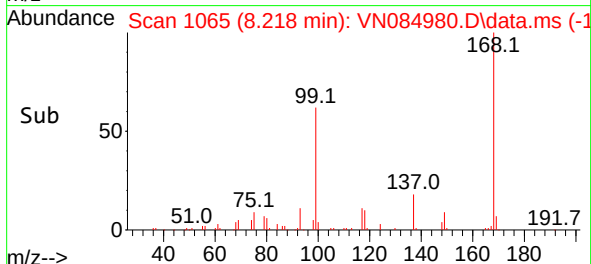
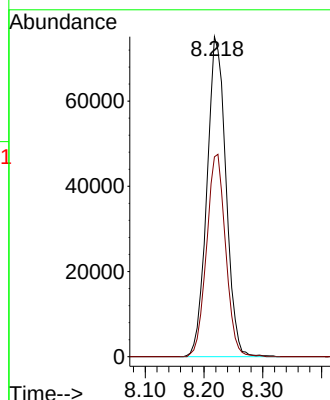
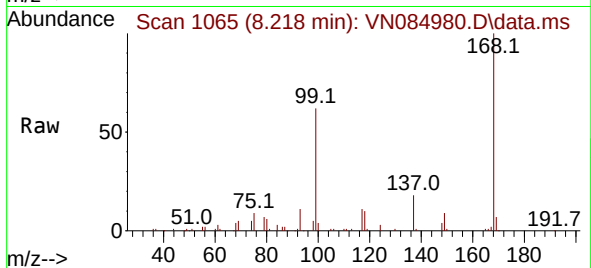




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN084980.D
Acq: 20 Nov 2024 19:46

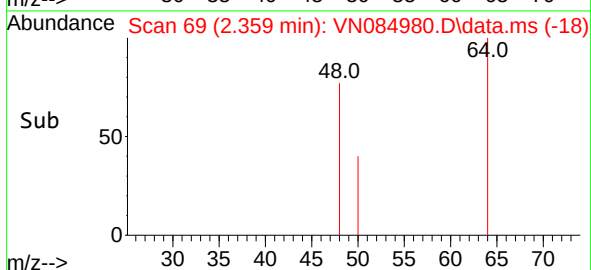
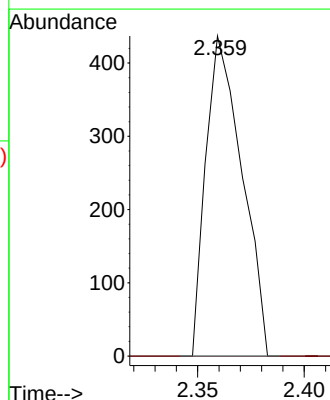
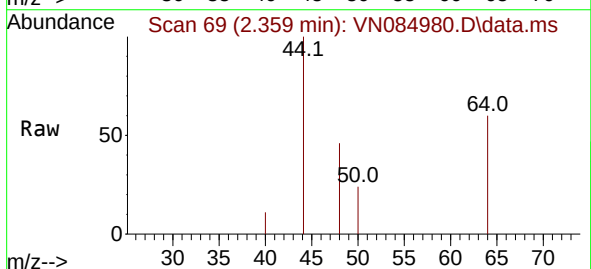
Instrument :
MSVOA_N
ClientSampleId :

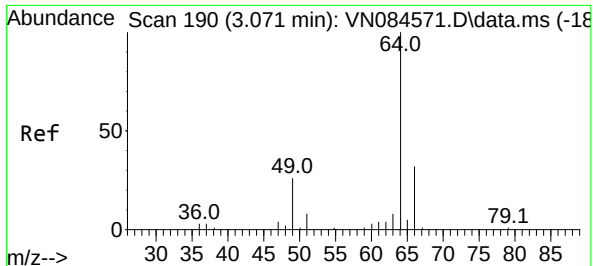
Tgt Ion:168 Resp: 168905
Ion Ratio Lower Upper
168 100
99 62.4 54.2 81.2



#3
Chloromethane
Concen: Below Cal
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN084980.D
Acq: 20 Nov 2024 19:46

Tgt Ion: 50 Resp: 516
Ion Ratio Lower Upper
50 100
52 0.0 26.8 40.2#

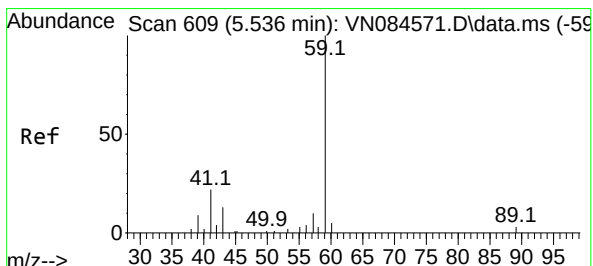
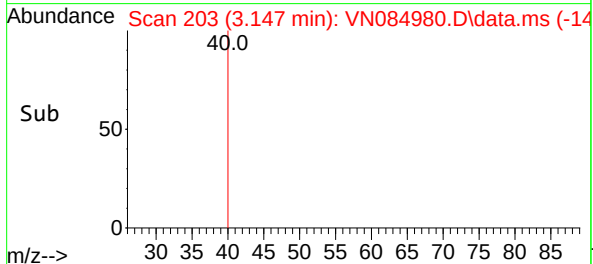
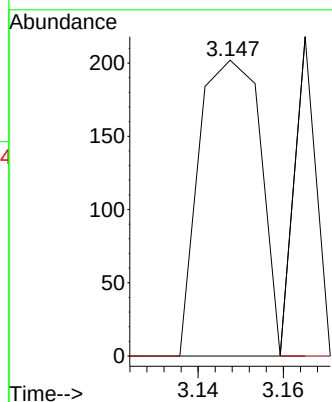
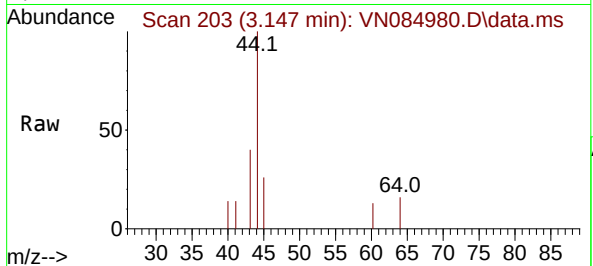




#6
Chloroethane
Concen: Below Cal
RT: 3.147 min Scan# 20
Delta R.T. 0.029 min
Lab File: VN084980.D
Acq: 20 Nov 2024 19:46

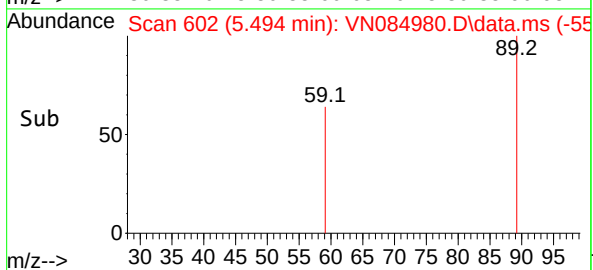
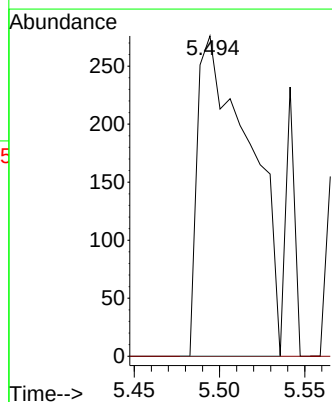
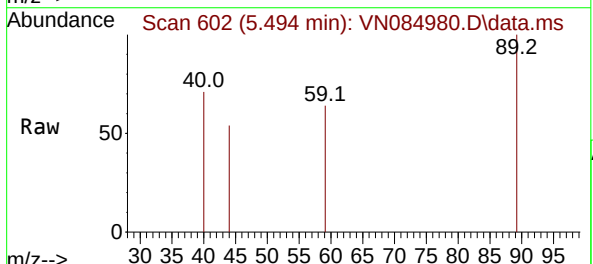
Instrument :
MSVOA_N
ClientSampleId :

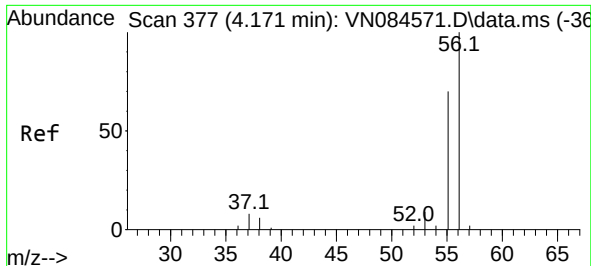
Tgt Ion: 64 Resp: 202
Ion Ratio Lower Upper
64 100
66 0.0 23.5 35.3#



#11
Tert butyl alcohol
Concen: 1.826 ug/l
RT: 5.494 min Scan# 602
Delta R.T. -0.029 min
Lab File: VN084980.D
Acq: 20 Nov 2024 19:46

Tgt Ion: 59 Resp: 588
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#





#13

Acrolein

Concen: 1.280 ug/l

RT: 4.183 min Scan# 377

Delta R.T. 0.006 min

Lab File: VN084980.D

Acq: 20 Nov 2024 19:46

Instrument :

MSVOA_N

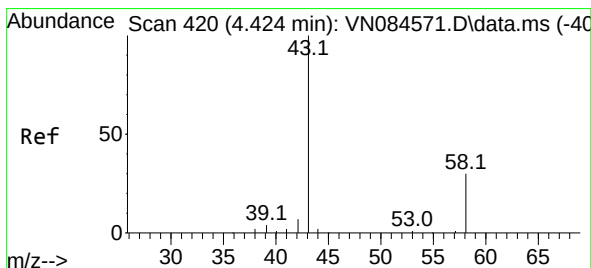
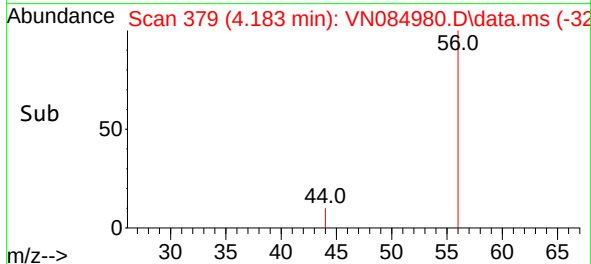
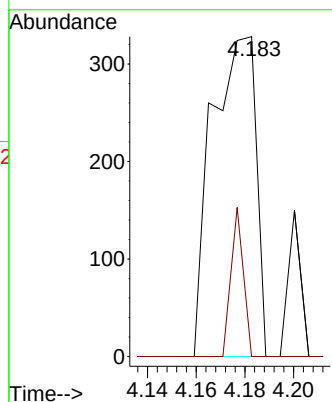
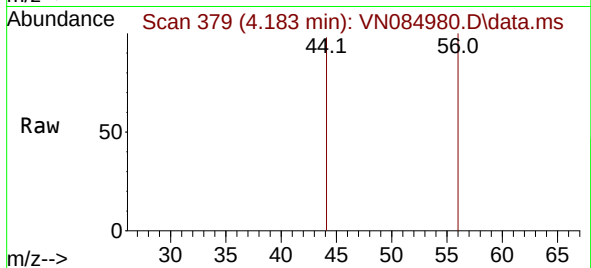
ClientSampleId :

Tgt Ion: 56 Resp: 411

Ion Ratio Lower Upper

56 100

55 13.1 57.2 85.8#



#16

Acetone

Concen: 48.428 ug/l

RT: 4.430 min Scan# 421

Delta R.T. 0.006 min

Lab File: VN084980.D

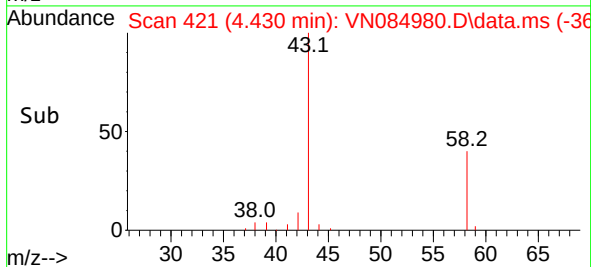
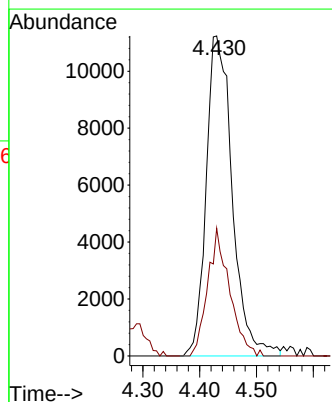
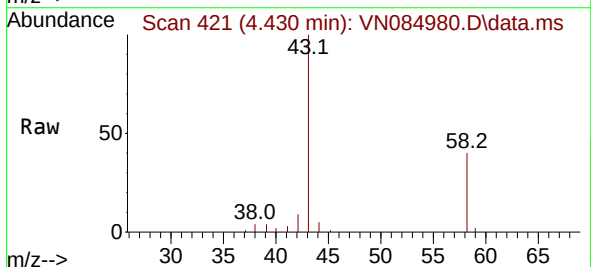
Acq: 20 Nov 2024 19:46

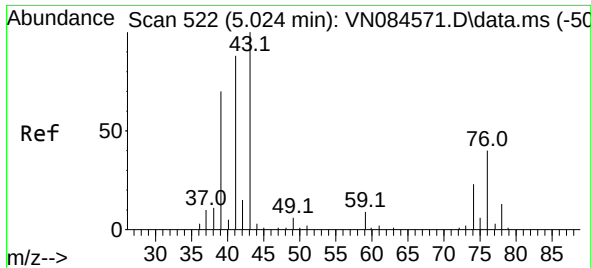
Tgt Ion: 43 Resp: 35748

Ion Ratio Lower Upper

43 100

58 39.9 24.4 36.6#

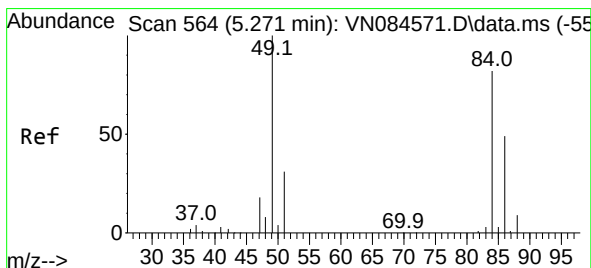
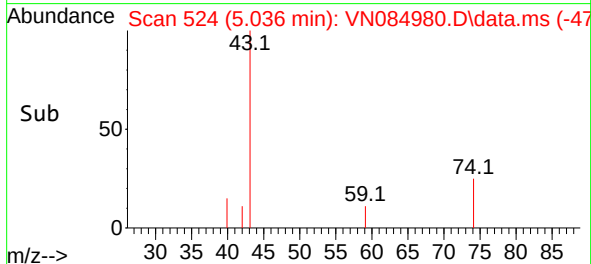
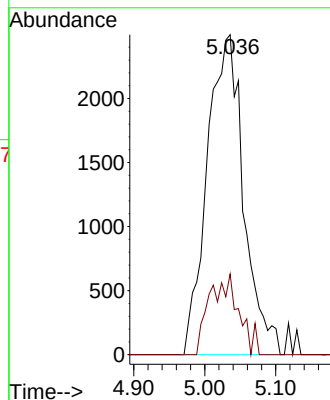
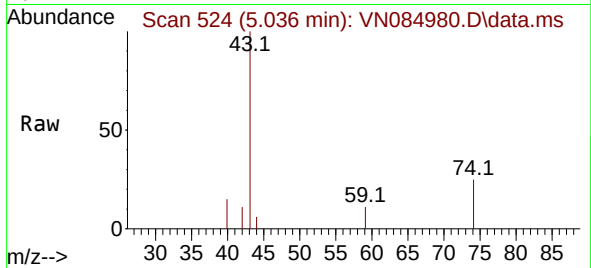




#18
Methyl Acetate
Concen: Below Cal
RT: 5.036 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN084980.D
Acq: 20 Nov 2024 19:46

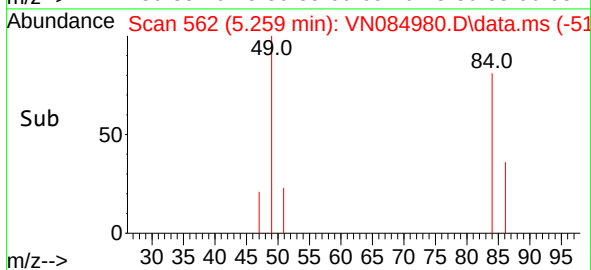
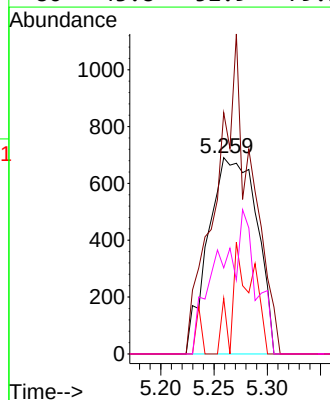
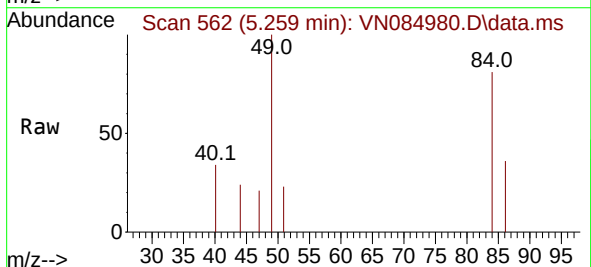
Instrument :
MSVOA_N
ClientSampleId :

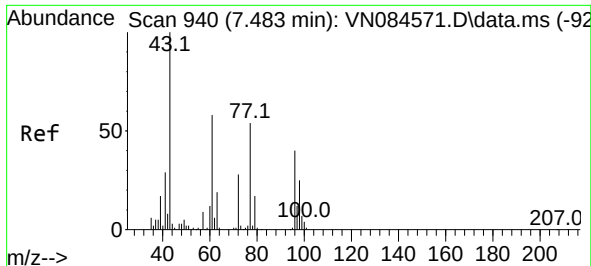
Tgt Ion: 43 Resp: 8895
Ion Ratio Lower Upper
43 100
74 0.0 19.2 28.8#



#20
Methylene Chloride
Concen: 1.018 ug/l
RT: 5.259 min Scan# 562
Delta R.T. -0.018 min
Lab File: VN084980.D
Acq: 20 Nov 2024 19:46

Tgt Ion: 84 Resp: 2185
Ion Ratio Lower Upper
84 100
49 122.9 107.2 160.8
51 28.4 31.8 47.8#
86 43.8 52.9 79.3#

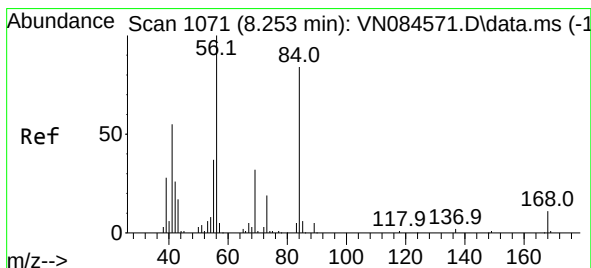
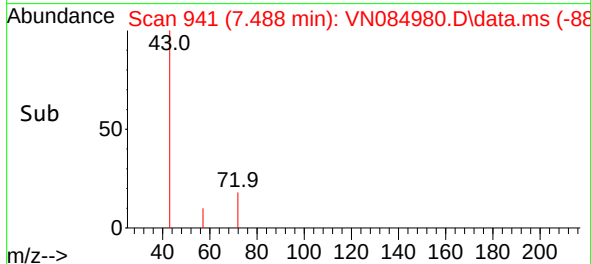
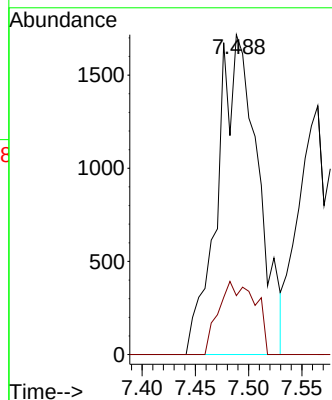
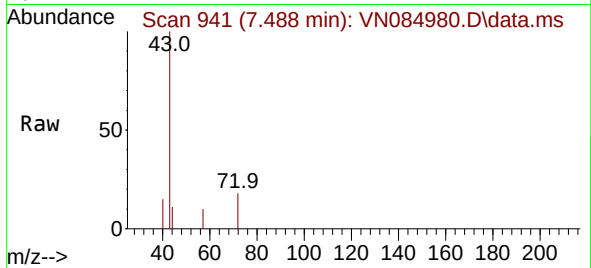




#25
2-Butanone
Concen: 4.001 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN084980.D
Acq: 20 Nov 2024 19:46

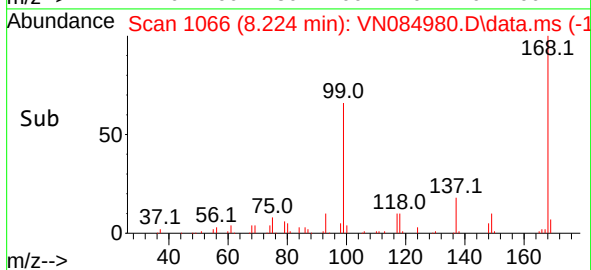
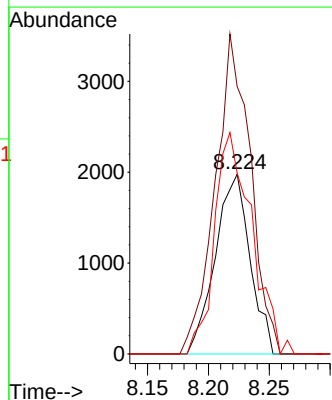
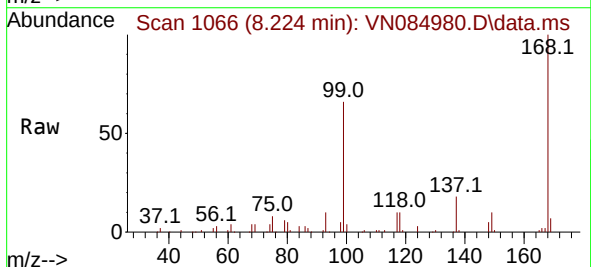
Instrument :
MSVOA_N
ClientSampleId :

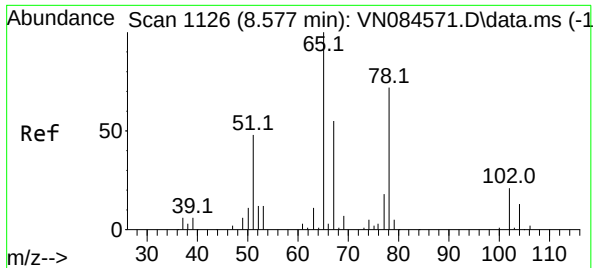
Tgt Ion: 43 Resp: 4554
Ion Ratio Lower Upper
43 100
72 18.4 21.4 32.2#



#31
Cyclohexane
Concen: 1.166 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN084980.D
Acq: 20 Nov 2024 19:46

Tgt Ion: 56 Resp: 3927
Ion Ratio Lower Upper
56 100
69 148.8 23.8 35.6#
84 100.6 68.8 103.2





#33

1,2-Dichloroethane-d4

Concen: 50.690 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN084980.D

Acq: 20 Nov 2024 19:46

Instrument :

MSVOA_N

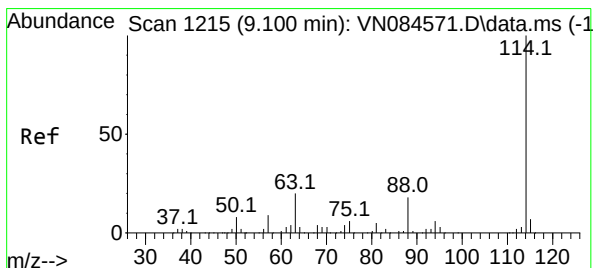
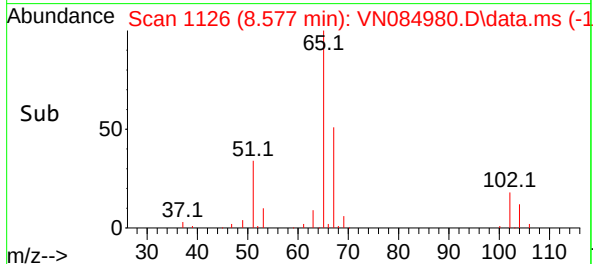
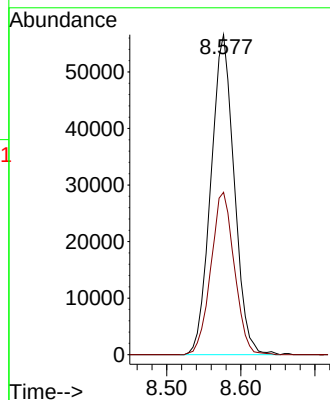
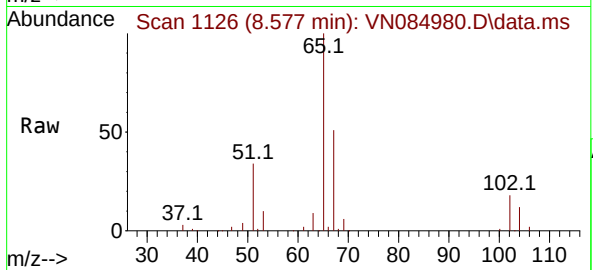
ClientSampleId :

Tgt Ion: 65 Resp: 123662

Ion Ratio Lower Upper

65 100

67 51.1 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: VN084980.D

Acq: 20 Nov 2024 19:46

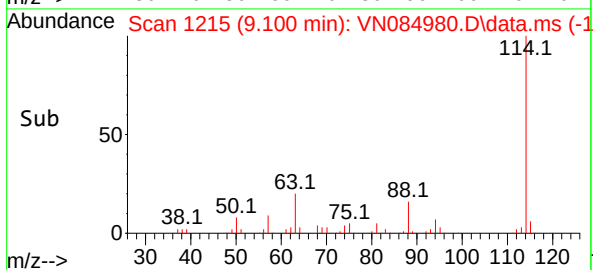
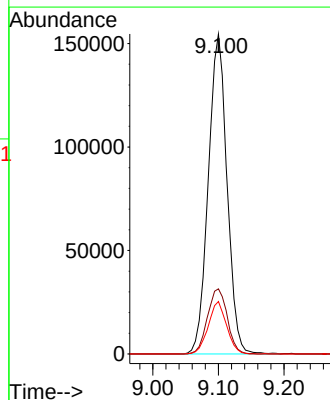
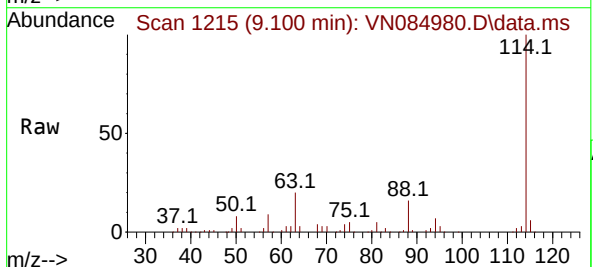
Tgt Ion: 114 Resp: 307008

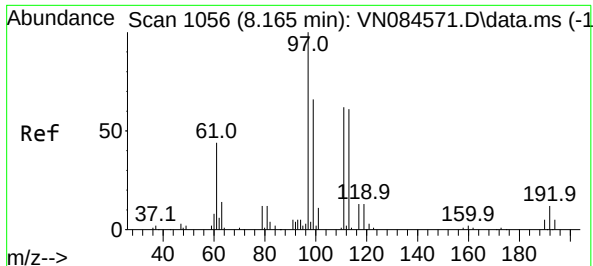
Ion Ratio Lower Upper

114 100

63 20.3 0.0 43.8

88 16.4 0.0 31.6

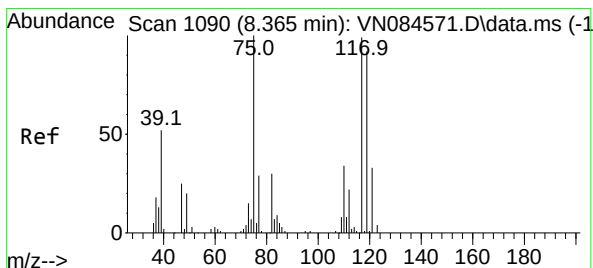
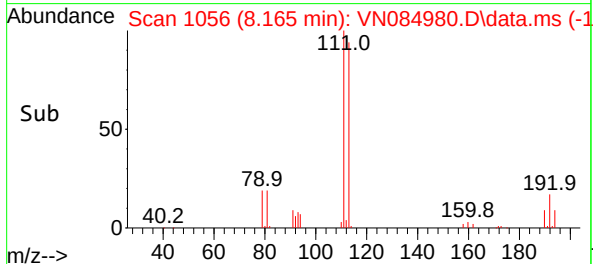
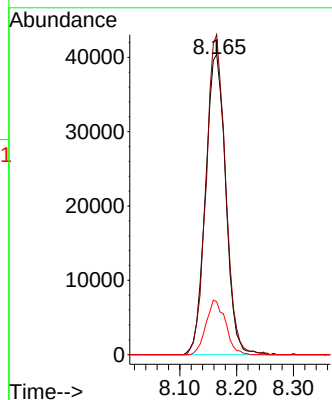
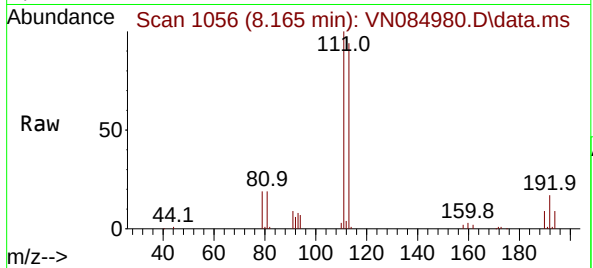




#35
Dibromofluoromethane
Concen: 47.908 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN084980.D
Acq: 20 Nov 2024 19:46

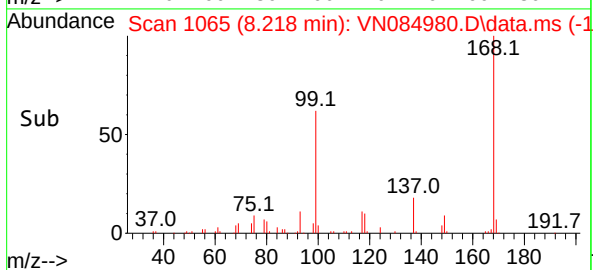
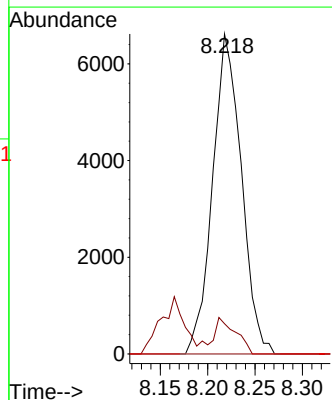
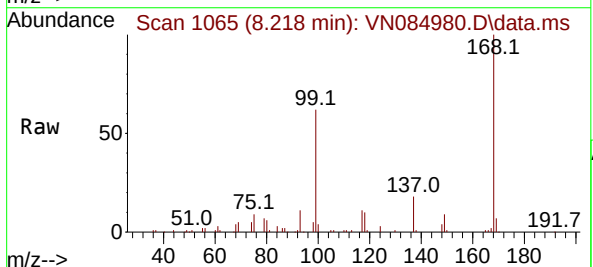
Instrument :
MSVOA_N
ClientSampleId :

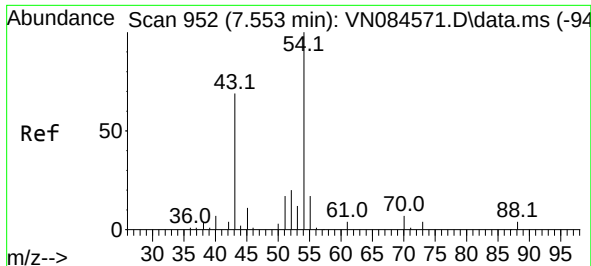
Tgt Ion:113 Resp: 99557
Ion Ratio Lower Upper
113 100
111 102.5 83.3 124.9
192 17.5 13.5 20.3



#36
1,1-Dichloropropene
Concen: 4.846 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.153 min
Lab File: VN084980.D
Acq: 20 Nov 2024 19:46

Tgt Ion: 75 Resp: 13966
Ion Ratio Lower Upper
75 100
110 8.1 16.9 50.7#
77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 1.148 ug/l

RT: 7.565 min Scan# 91

Delta R.T. 0.006 min

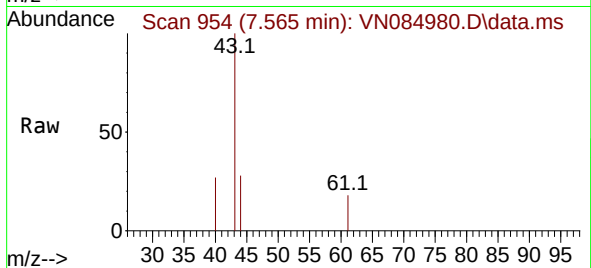
Lab File: VN084980.D

Acq: 20 Nov 2024 19:46

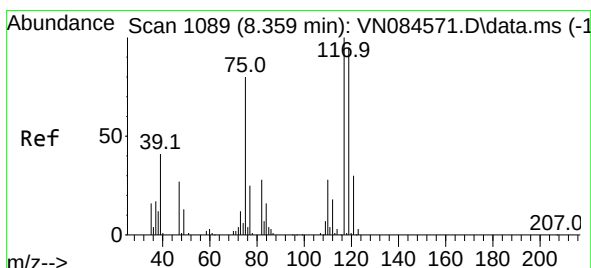
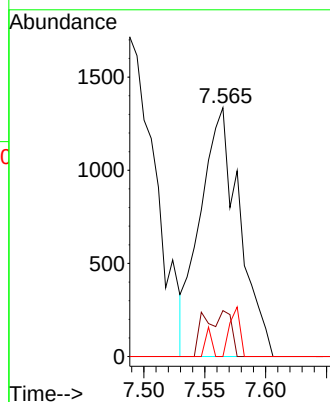
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	3001
Ion	Ratio	Lower	Upper
43	100		
61	12.3	10.7	16.1
70	5.3	8.8	13.2#



#38

Carbon Tetrachloride

Concen: 5.829 ug/l

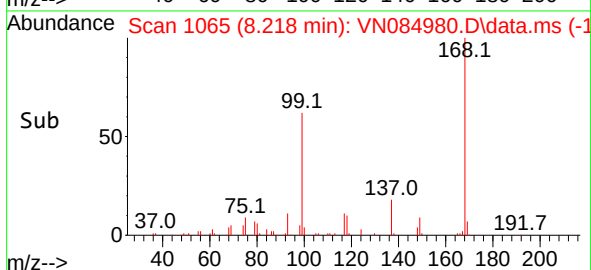
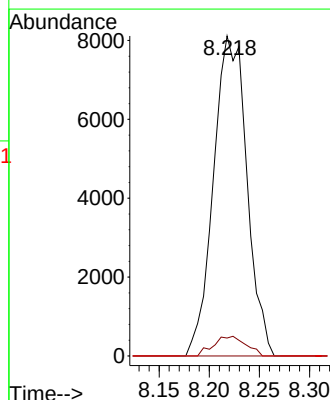
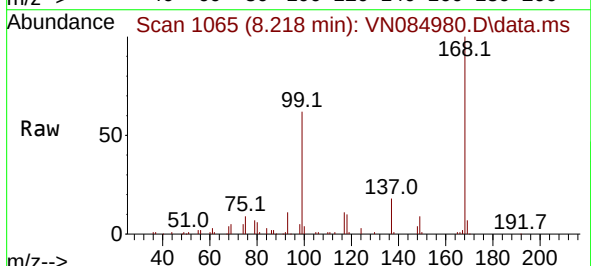
RT: 8.218 min Scan# 1065

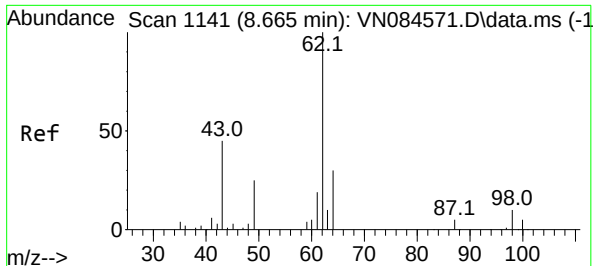
Delta R.T. -0.141 min

Lab File: VN084980.D

Acq: 20 Nov 2024 19:46

Tgt Ion:	117	Resp:	18776
Ion	Ratio	Lower	Upper
117	100		
119	5.6	78.7	118.1#
121	0.0	24.4	36.6#





#42

1,2-Dichloroethane

Concen: 0.407 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.011 min

Lab File: VN084980.D

Acq: 20 Nov 2024 19:46

Instrument :

MSVOA_N

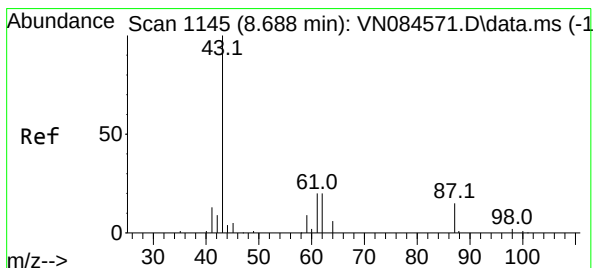
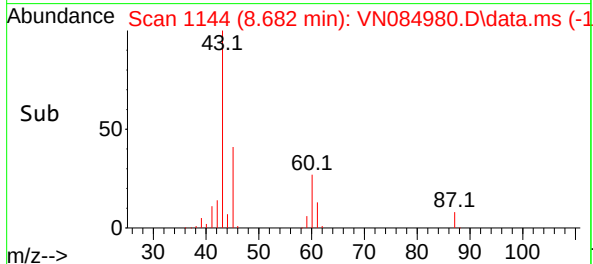
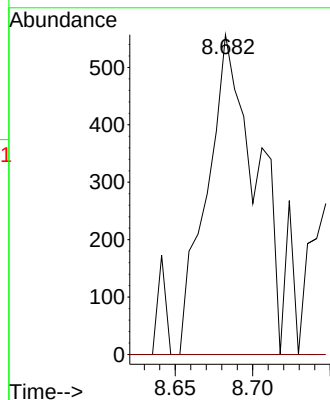
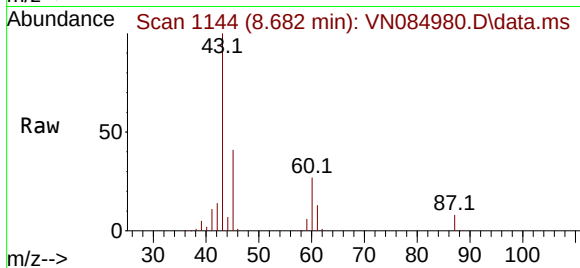
ClientSampleId :

Tgt Ion: 62 Resp: 1220

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2



#43

Isopropyl Acetate

Concen: 135.119 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.006 min

Lab File: VN084980.D

Acq: 20 Nov 2024 19:46

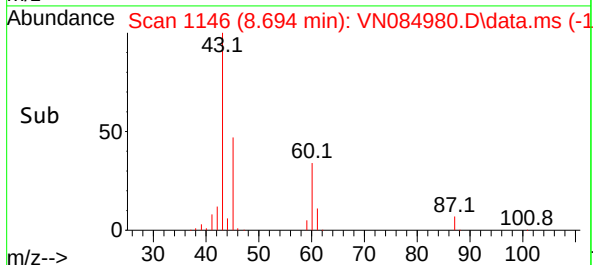
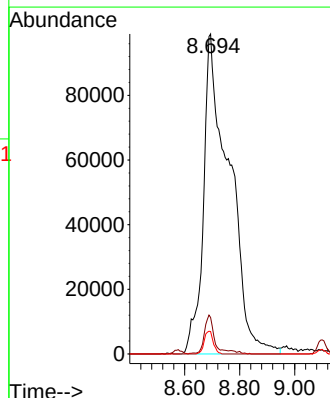
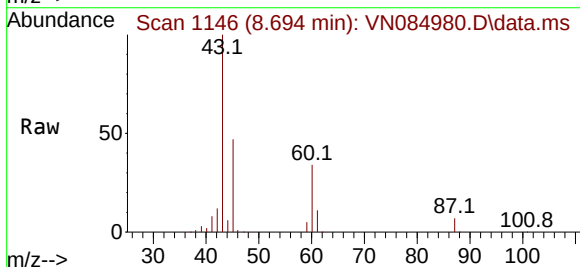
Tgt Ion: 43 Resp: 644785

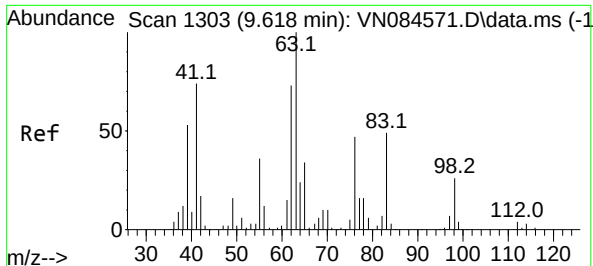
Ion Ratio Lower Upper

43 100

61 4.6 20.4 30.6#

87 2.5 10.3 15.5#





#45

1,2-Dichloropropane

Concen: 0.715 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.117 min

Lab File: VN084980.D

Acq: 20 Nov 2024 19:46

Instrument :

MSVOA_N

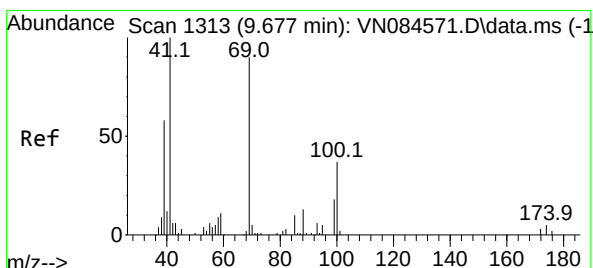
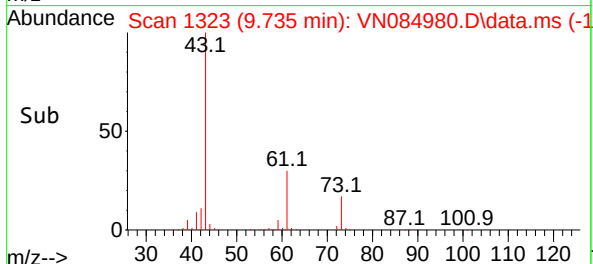
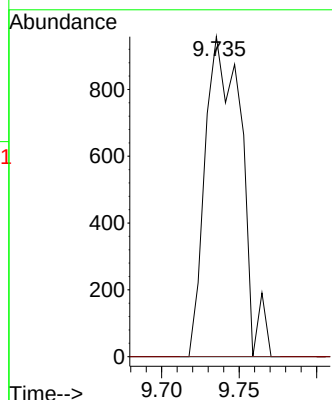
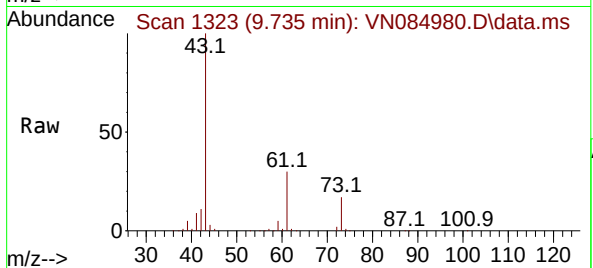
ClientSampleId :

Tgt Ion: 63 Resp: 1552

Ion Ratio Lower Upper

63 100

65 0.0 24.6 37.0#



#48

Methyl methacrylate

Concen: 1.477 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.012 min

Lab File: VN084980.D

Acq: 20 Nov 2024 19:46

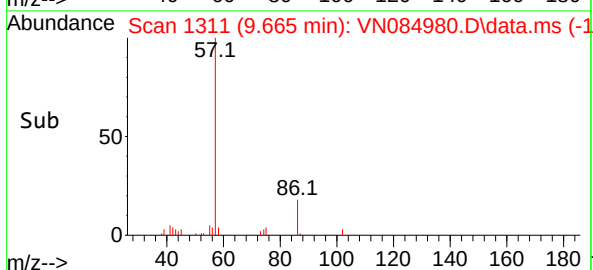
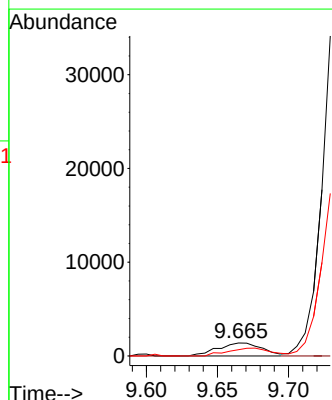
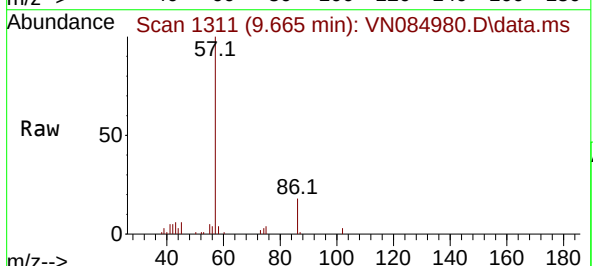
Tgt Ion: 41 Resp: 3006

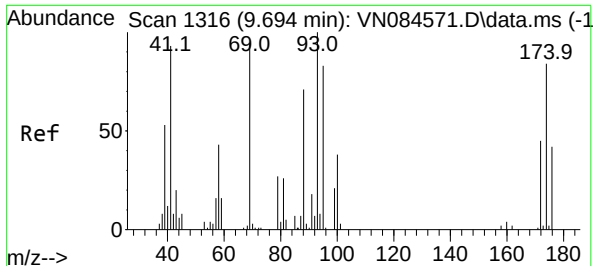
Ion Ratio Lower Upper

41 100

69 0.0 67.1 100.7#

39 59.3 45.8 68.6





#49

1,4-Dioxane

Concen: 3.383 ug/l

RT: 9.735 min Scan# 1

Delta R.T. 0.041 min

Lab File: VN084980.D

Acq: 20 Nov 2024 19:46

Instrument :

MSVOA_N

ClientSampleId :

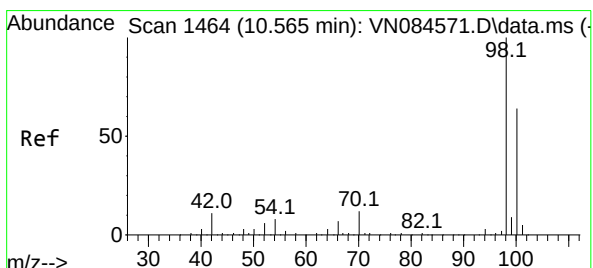
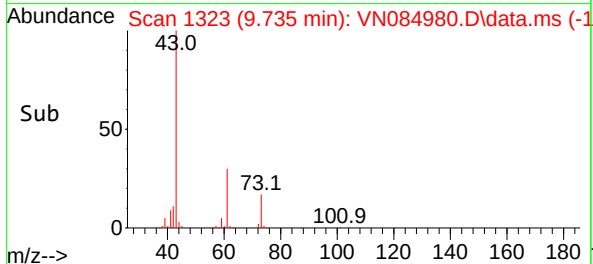
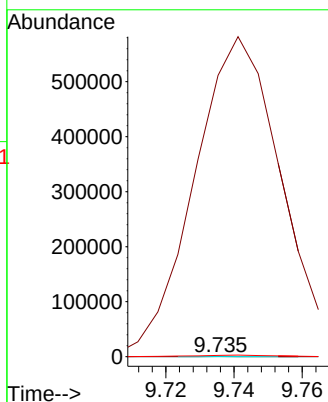
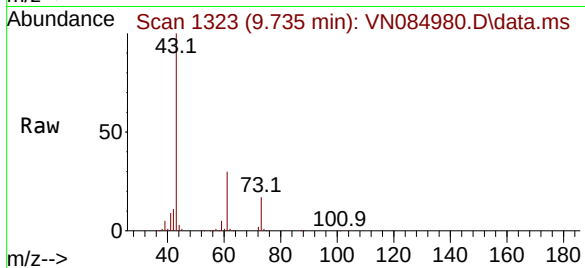
Tgt Ion: 88 Resp: 122

Ion Ratio Lower Upper

88 100

43 851802.5 25.3 37.9#

58 3887.7 56.4 84.6#



#50

Toluene-d8

Concen: 47.684 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084980.D

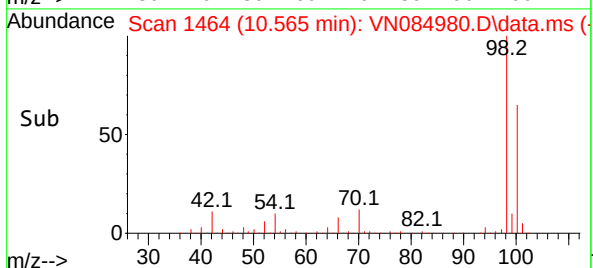
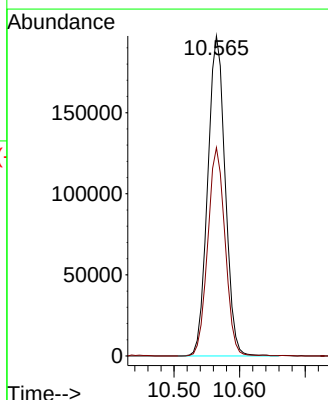
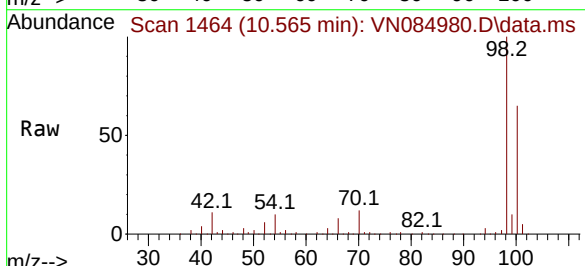
Acq: 20 Nov 2024 19:46

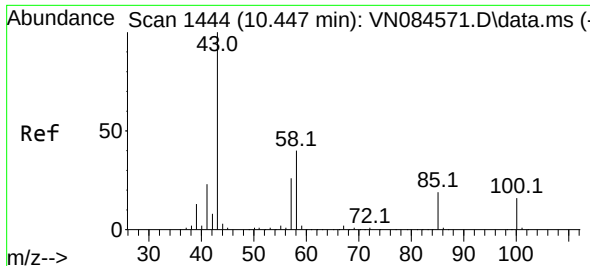
Tgt Ion: 98 Resp: 365021

Ion Ratio Lower Upper

98 100

100 64.4 52.7 79.1





#51

4-Methyl-2-Pentanone

Concen: 3.481 ug/l

RT: 10.441 min Scan# 1444

Delta R.T. -0.000 min

Lab File: VN084980.D

Acq: 20 Nov 2024 19:46

Instrument :

MSVOA_N

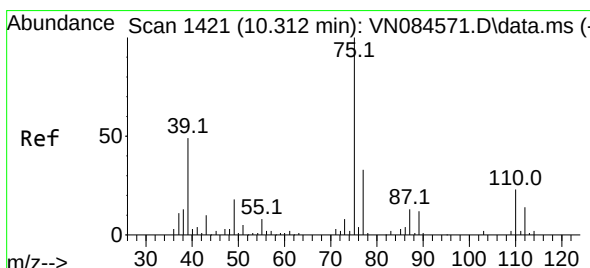
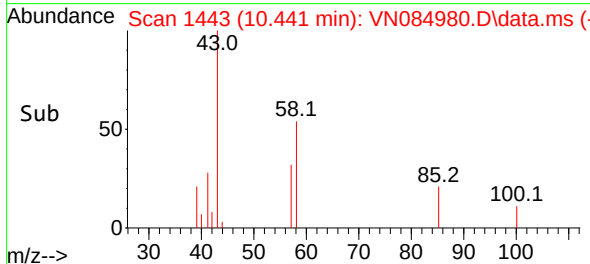
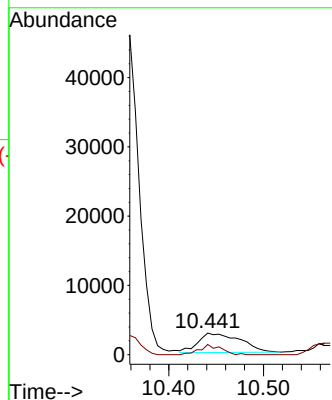
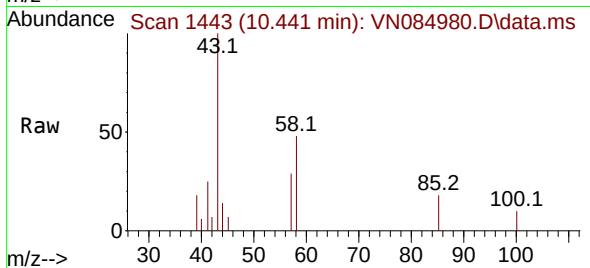
ClientSampleId :

Tgt Ion: 43 Resp: 8676

Ion Ratio Lower Upper

43 100

58 26.6 31.6 47.4#



#54

cis-1,3-Dichloropropene

Concen: 10.888 ug/l

RT: 10.359 min Scan# 1429

Delta R.T. 0.047 min

Lab File: VN084980.D

Acq: 20 Nov 2024 19:46

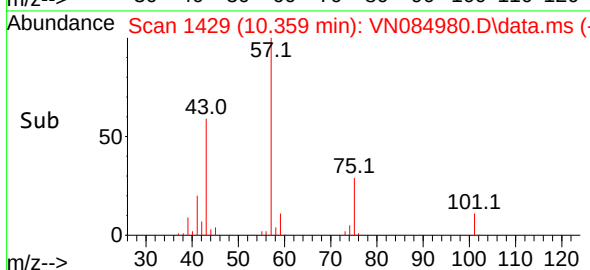
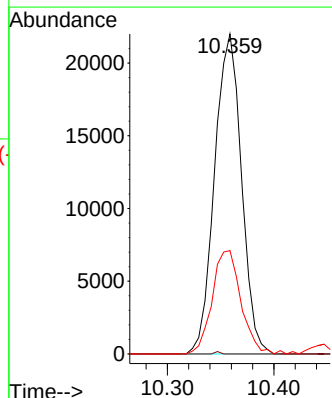
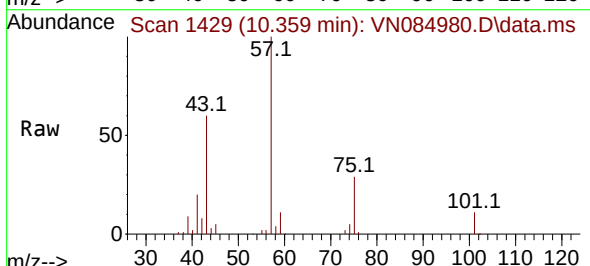
Tgt Ion: 75 Resp: 38521

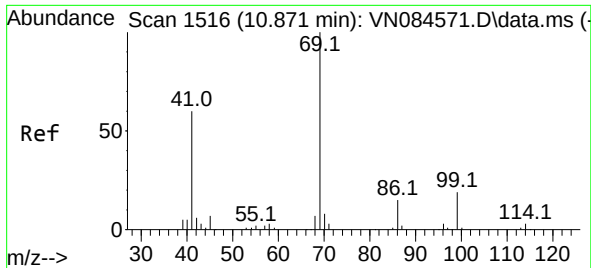
Ion Ratio Lower Upper

75 100

77 0.0 24.2 36.2#

39 32.3 38.7 58.1#

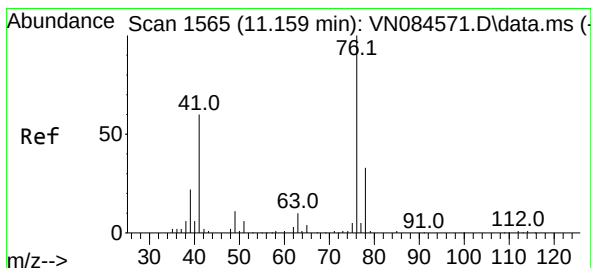
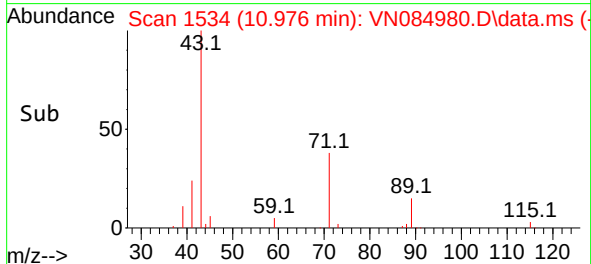
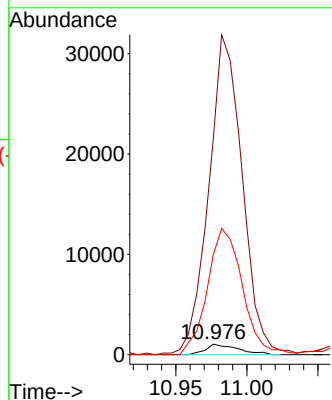
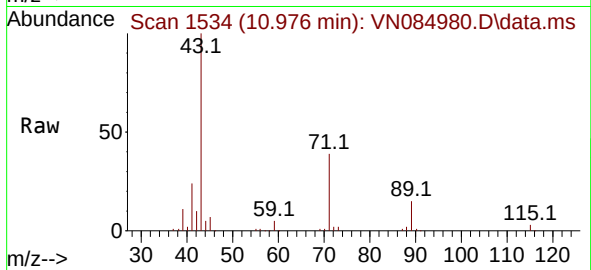




#56
Ethyl methacrylate
Concen: 0.561 ug/l
RT: 10.976 min Scan# 1534
Delta R.T. 0.106 min
Lab File: VN084980.D
Acq: 20 Nov 2024 19:46

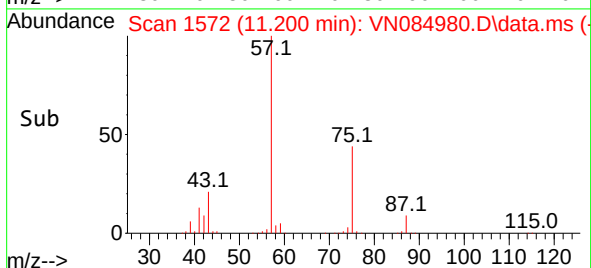
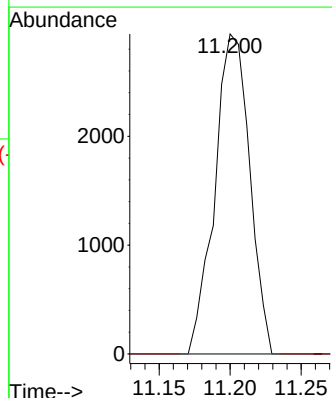
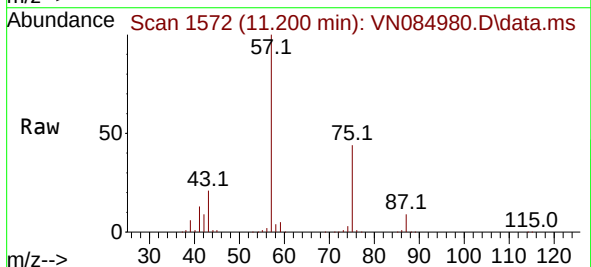
Instrument :
MSVOA_N
ClientSampleId :

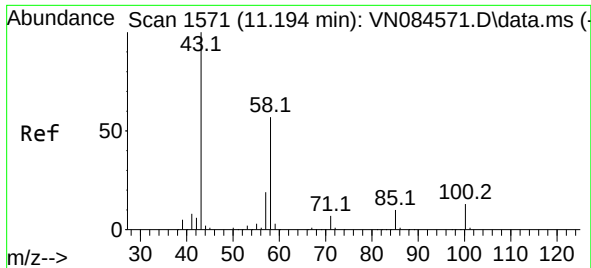
Tgt Ion: 69 Resp: 1656
Ion Ratio Lower Upper
69 100
41 3161.2 53.3 79.9#
39 1301.4 28.8 43.2#



#57
1,3-Dichloropropane
Concen: 1.437 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN084980.D
Acq: 20 Nov 2024 19:46

Tgt Ion: 76 Resp: 5029
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

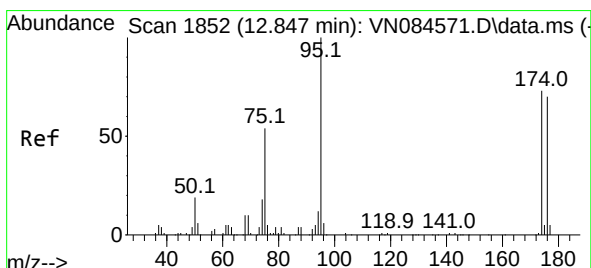
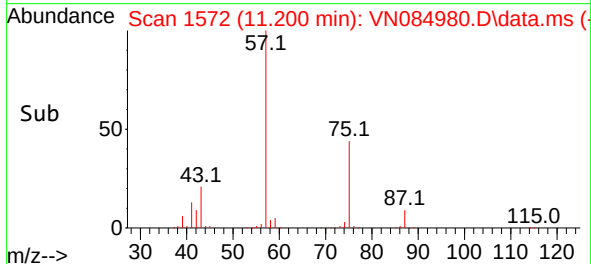
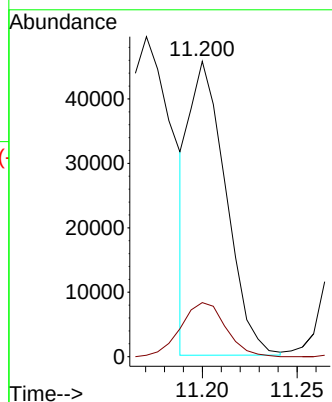
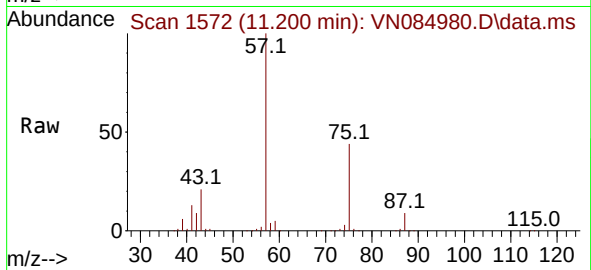




#59
2-Hexanone
Concen: 33.895 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN084980.D
Acq: 20 Nov 2024 19:46

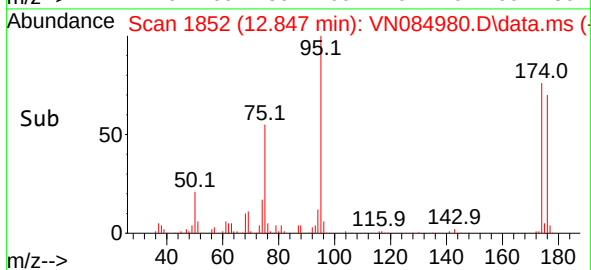
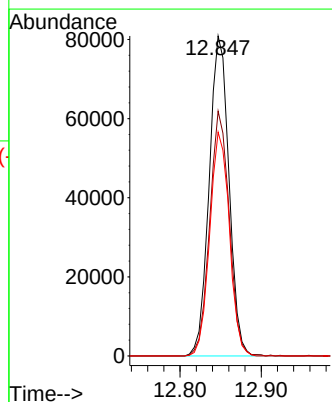
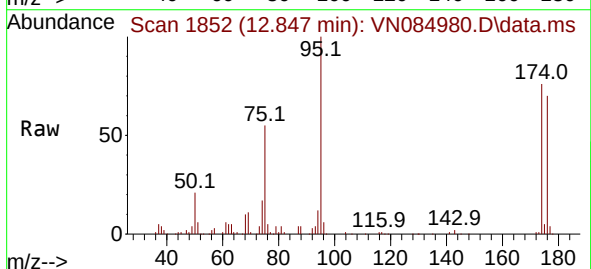
Instrument :
MSVOA_N
ClientSampleId :

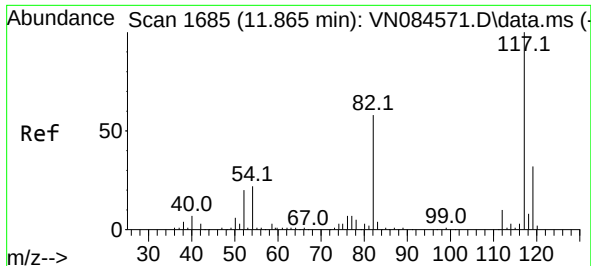
Tgt Ion: 43 Resp: 61499
Ion Ratio Lower Upper
43 100
58 22.7 27.3 81.8#



#62
4-Bromofluorobenzene
Concen: 47.843 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084980.D
Acq: 20 Nov 2024 19:46

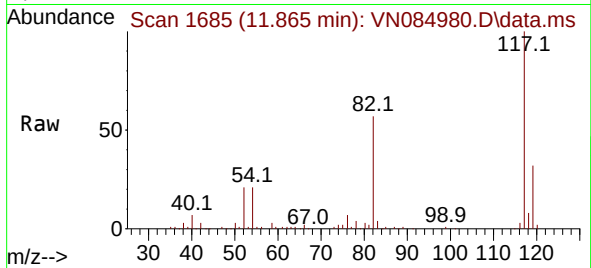
Tgt Ion: 95 Resp: 136874
Ion Ratio Lower Upper
95 100
174 75.7 0.0 145.2
176 69.3 0.0 140.0



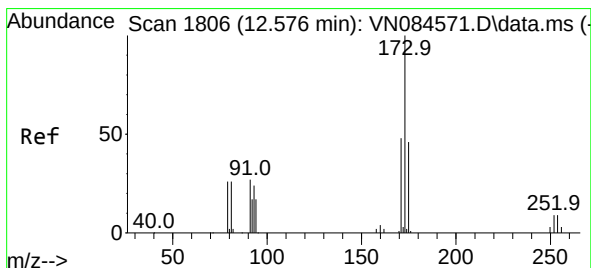
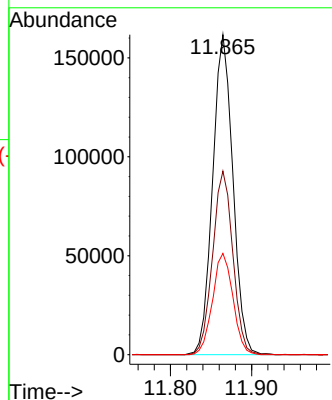
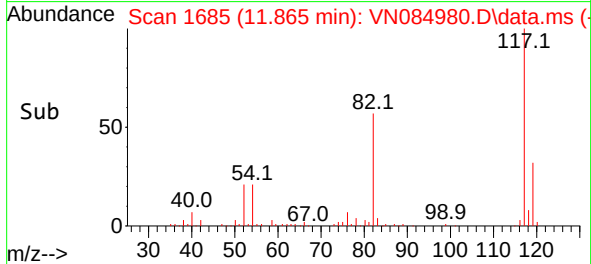


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN084980.D
Acq: 20 Nov 2024 19:46

Instrument :
MSVOA_N
ClientSampleId :

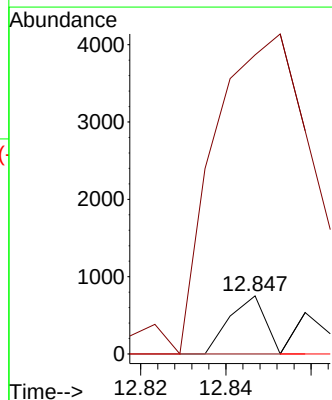
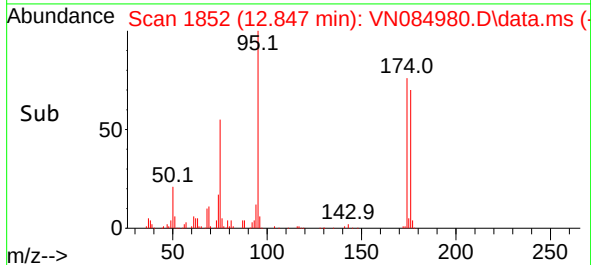
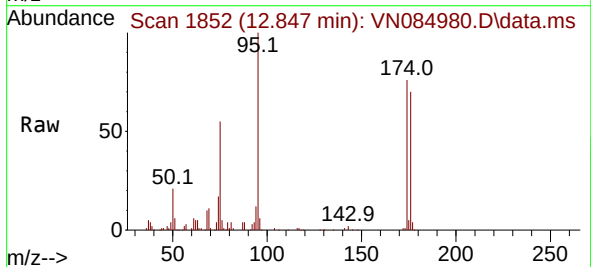


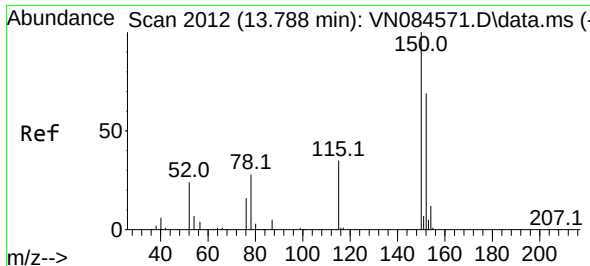
Tgt Ion:117 Resp: 280273
Ion Ratio Lower Upper
117 100
82 57.4 47.2 70.8
119 31.7 25.4 38.0



#71
Bromoform
Concen: 0.267 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.270 min
Lab File: VN084980.D
Acq: 20 Nov 2024 19:46

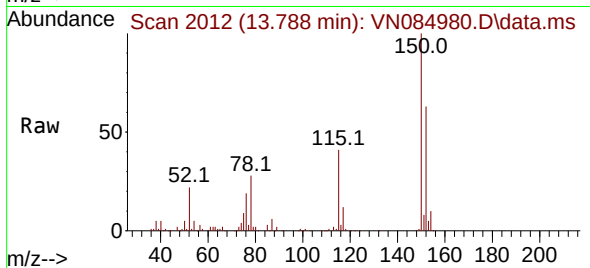
Tgt Ion:173 Resp: 438
Ion Ratio Lower Upper
173 100
175 0.0 23.5 70.6#
254 0.0 0.0 0.0



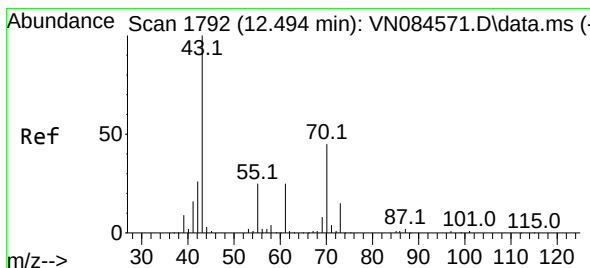
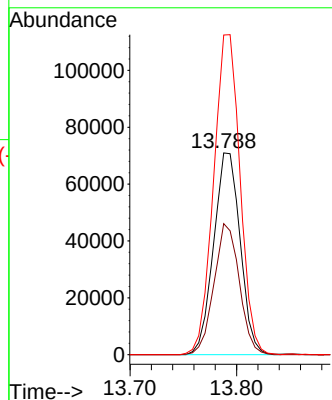
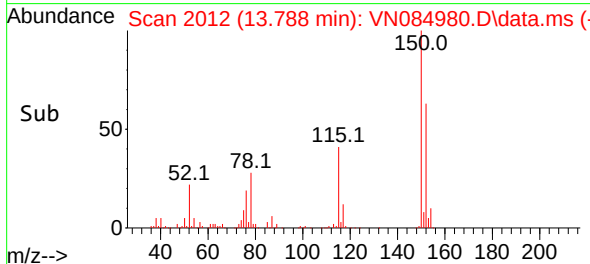


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 2012
 Delta R.T. -0.000 min
 Lab File: VN084980.D
 Acq: 20 Nov 2024 19:46

Instrument :
 MSVOA_N
 ClientSampleId :

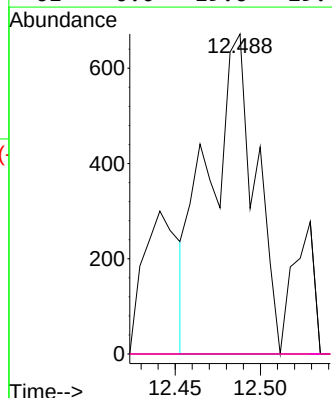
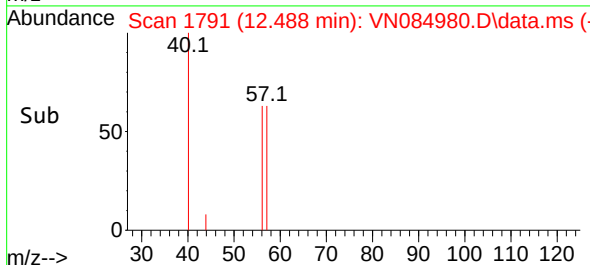
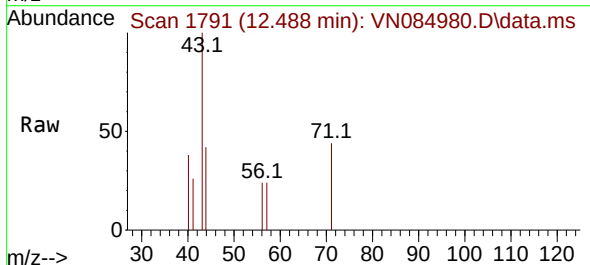


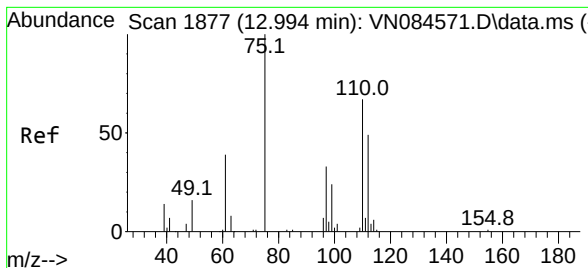
Tgt Ion:152 Resp: 122809
 Ion Ratio Lower Upper
 152 100
 115 61.9 31.3 93.9
 150 158.1 0.0 349.8



#74
 N-ethyl acetate
 Concen: 0.353 ug/l
 RT: 12.488 min Scan# 1791
 Delta R.T. -0.006 min
 Lab File: VN084980.D
 Acq: 20 Nov 2024 19:46

Tgt Ion: 43 Resp: 1294
 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: 29.642 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN084980.D

Acq: 20 Nov 2024 19:46

Instrument :

MSVOA_N

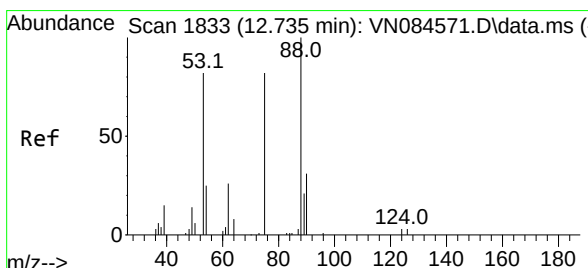
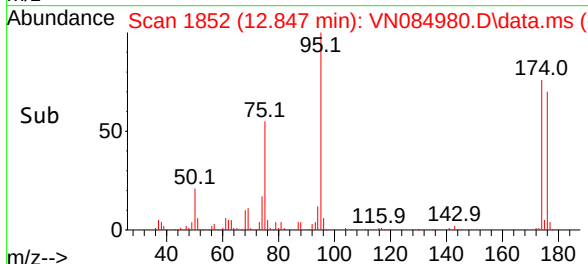
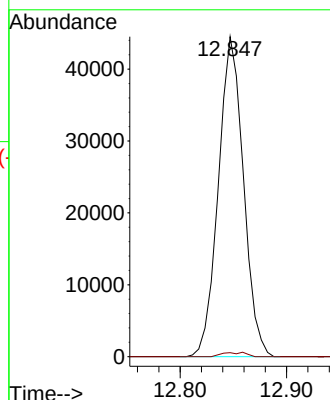
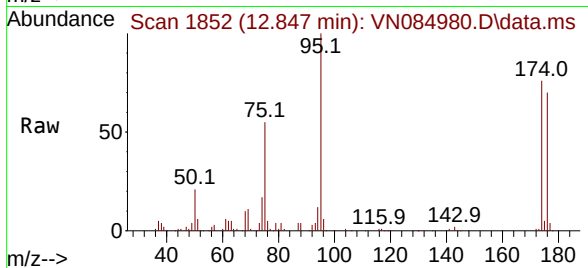
ClientSampleId :

Tgt Ion: 75 Resp: 72769

Ion Ratio Lower Upper

75 100

77 1.3 96.9 290.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 70.324 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN084980.D

Acq: 20 Nov 2024 19:46

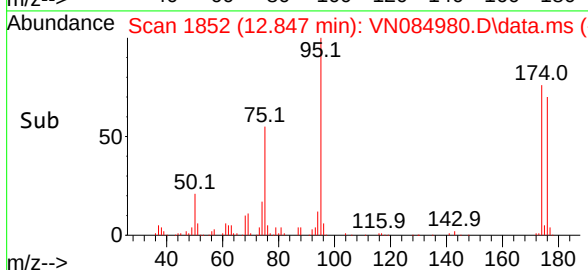
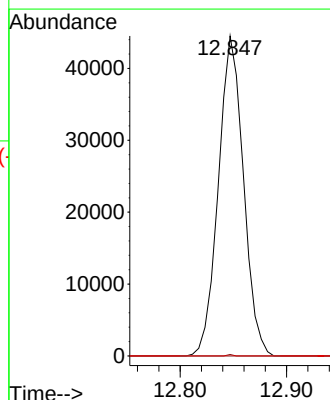
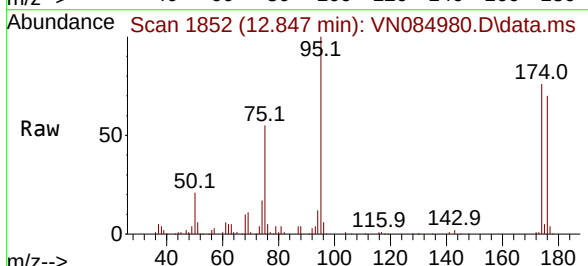
Tgt Ion: 75 Resp: 72769

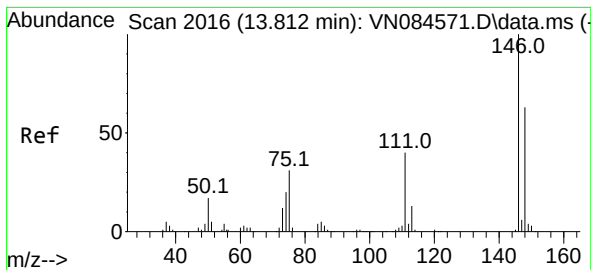
Ion Ratio Lower Upper

75 100

53 0.1 78.0 117.0#

89 0.0 35.5 53.3#





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.800 min Scan# 2016

Delta R.T. -0.012 min

Lab File: VN084980.D

Acq: 20 Nov 2024 19:46

Instrument :

MSVOA_N

ClientSampleId :

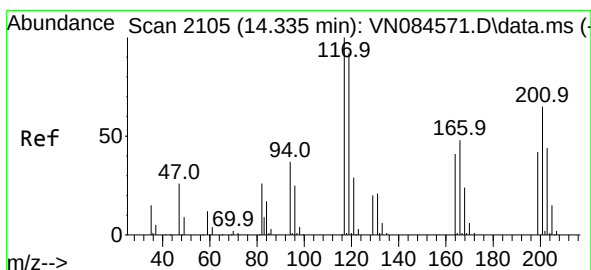
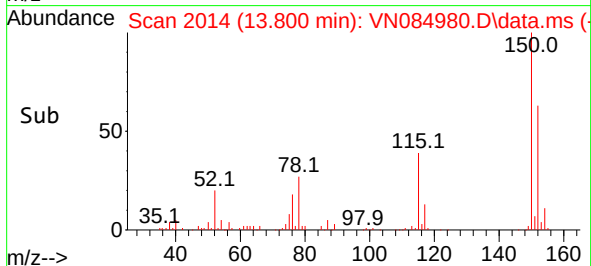
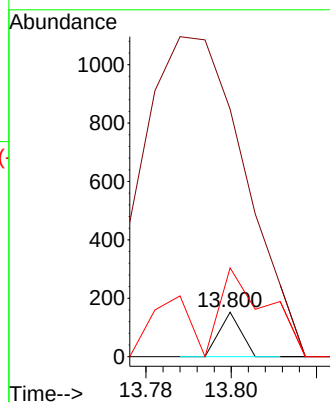
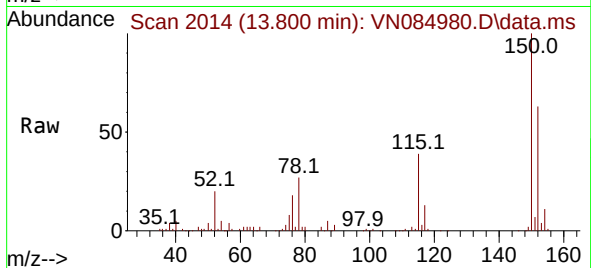
Tgt Ion:146 Resp: 54

Ion Ratio Lower Upper

146 100

111 0.0 21.2 63.6#

148 427.8 31.9 95.9#



#90

Hexachloroethane

Concen: 0.253 ug/l

RT: 14.447 min Scan# 2124

Delta R.T. 0.118 min

Lab File: VN084980.D

Acq: 20 Nov 2024 19:46

Tgt Ion:117 Resp: 386

Ion Ratio Lower Upper

117 100

201 0.0 34.4 103.2#

