

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111924\
 Data File : VN084955.D
 Acq On : 19 Nov 2024 18:28
 Operator : JC\MD
 Sample : P4849-02RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RR-1

Quant Time: Nov 20 00:34:06 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)

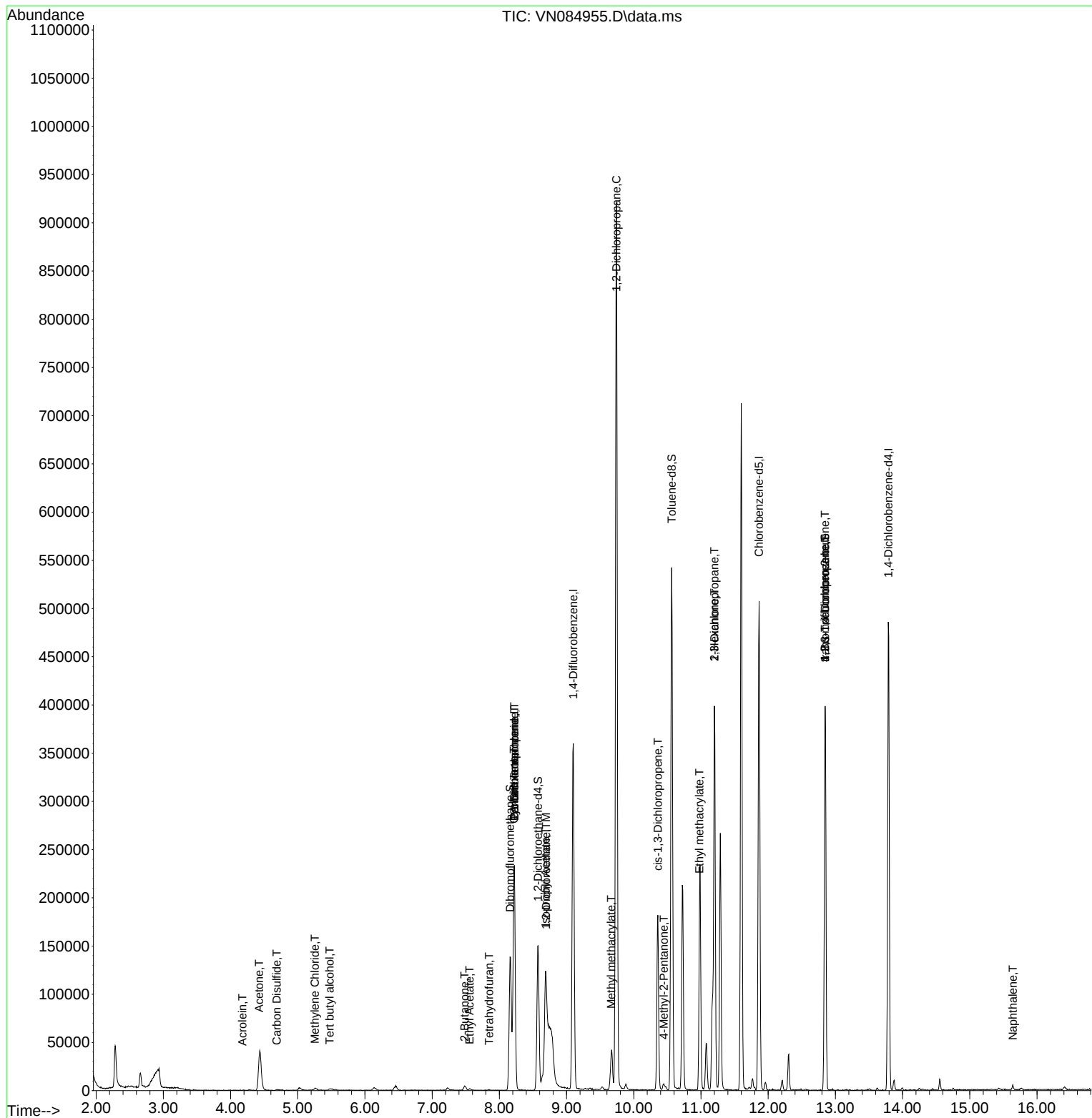
Internal Standards						
1) Pentafluorobenzene	8.224	168	165304	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	310949	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	288045	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	132667	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	125886	52.726	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.460%			
35) Dibromofluoromethane	8.159	113	101398	48.176	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.360%			
50) Toluene-d8	10.565	98	373477	48.171	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.340%			
62) 4-Bromofluorobenzene	12.847	95	143570	49.547	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.100%			
Target Compounds					Qvalue	
3) Chloromethane	2.365	50	637	Below Cal		93
6) Chloroethane	3.100	64	197	Below Cal	#	45
11) Tert butyl alcohol	5.477	59	674	2.139	ug/l #	73
13) Acrolein	4.177	56	77	0.245	ug/l #	1
16) Acetone	4.424	43	33355	46.036	ug/l	91
17) Carbon Disulfide	4.689	76	1450	0.250	ug/l #	75
18) Methyl Acetate	5.018	43	5520	Below Cal	#	71
20) Methylene Chloride	5.253	84	1454	0.692	ug/l #	84
25) 2-Butanone	7.483	43	7925	7.115	ug/l #	85
29) Tetrahydrofuran	7.847	42	196	0.265	ug/l #	39
31) Cyclohexane	8.218	56	4014	1.218	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	14575	4.993	ug/l #	51
37) Ethyl Acetate	7.559	43	2699	1.019	ug/l #	85
38) Carbon Tetrachloride	8.224	117	17912	5.490	ug/l #	15
42) 1,2-Dichloroethane	8.694	62	744	0.245	ug/l #	75
43) Isopropyl Acetate	8.688	43	197548	40.186	ug/l #	75
45) 1,2-Dichloropropane	9.741	63	1056	0.480	ug/l #	44
48) Methyl methacrylate	9.665	41	2863	1.389	ug/l #	43
51) 4-Methyl-2-Pentanone	10.447	43	7110	2.816	ug/l #	72
54) cis-1,3-Dichloropropene	10.359	75	32024	8.937	ug/l #	64
56) Ethyl methacrylate	10.976	69	1232	0.412	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	4072	1.149	ug/l #	42
59) 2-Hexanone	11.200	43	51079	27.795	ug/l #	54
76) 1,2,3-Trichloropropane	12.847	75	75046	28.298	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	75046	67.135	ug/l #	11
88) 1,4-Dichlorobenzene	13.794	146	61	Below Cal	#	1
95) Naphthalene	15.641	128	4836	0.630	ug/l #	90

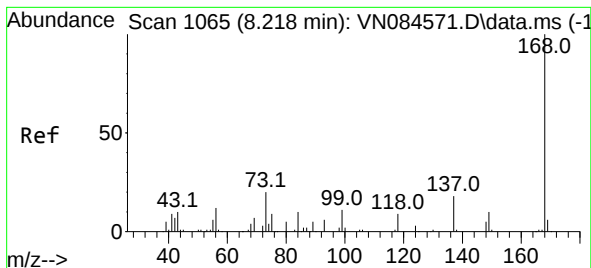
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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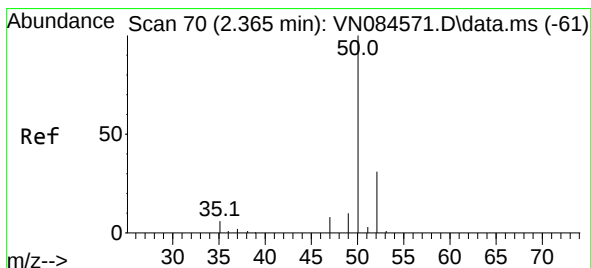
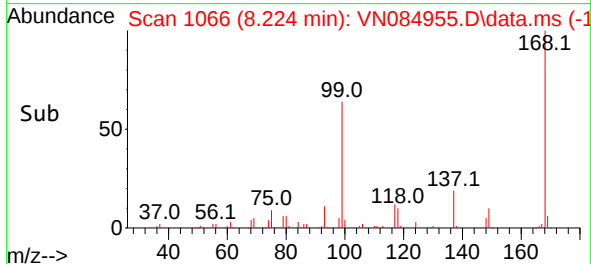
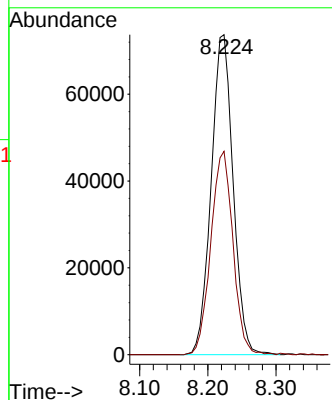
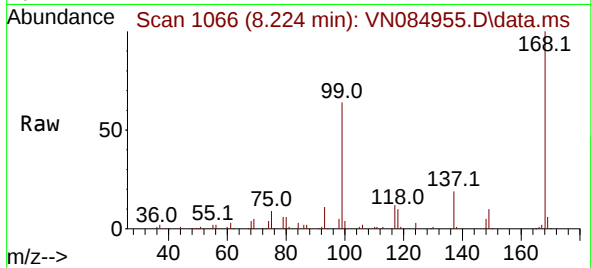




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN084955.D
Acq: 19 Nov 2024 18:28

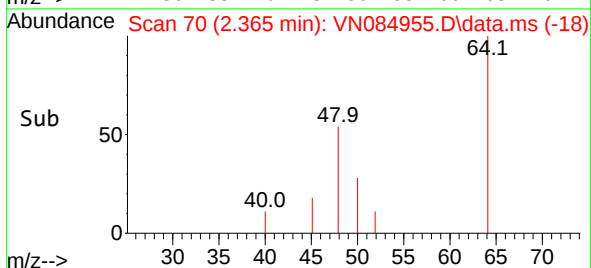
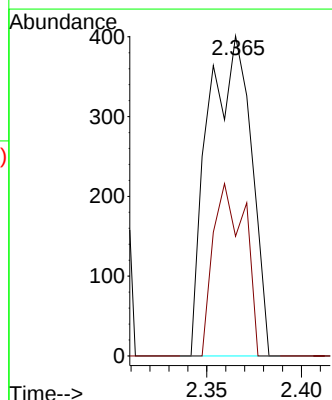
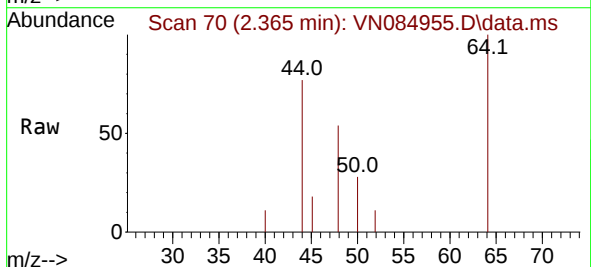
Instrument :
MSVOA_N
ClientSampleId :
RR-1

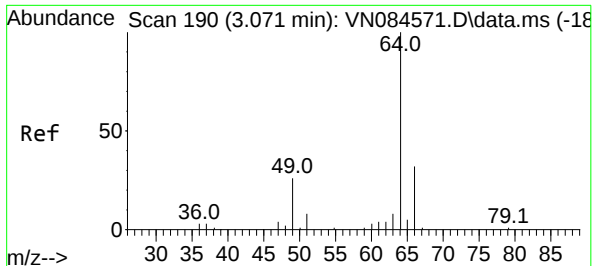
Tgt Ion:168 Resp: 165304
Ion Ratio Lower Upper
168 100
99 63.6 54.2 81.2



#3
Chloromethane
Concen: Below Cal
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN084955.D
Acq: 19 Nov 2024 18:28

Tgt Ion: 50 Resp: 637
Ion Ratio Lower Upper
50 100
52 37.4 26.8 40.2

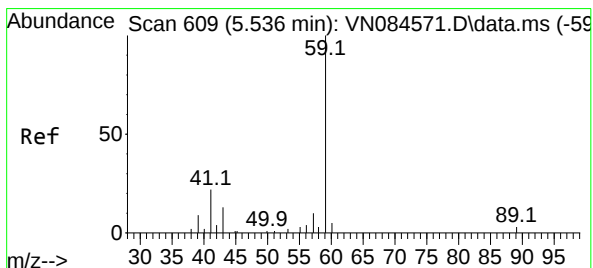
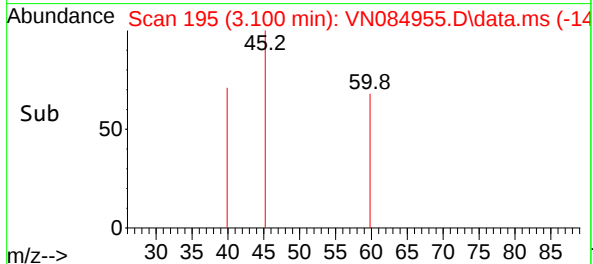
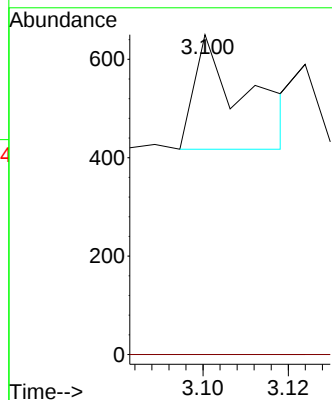
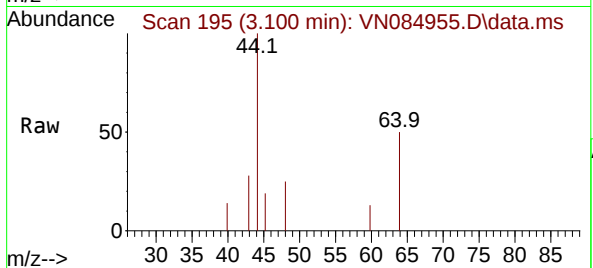




#6
Chloroethane
Concen: Below Cal
RT: 3.100 min Scan# 190
Delta R.T. -0.018 min
Lab File: VN084955.D
Acq: 19 Nov 2024 18:28

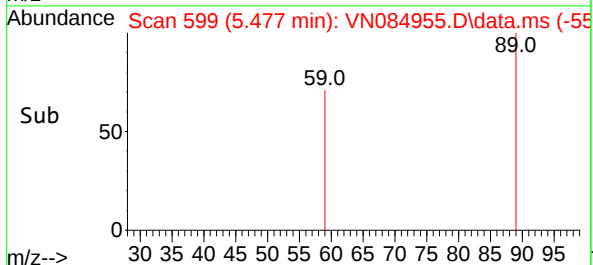
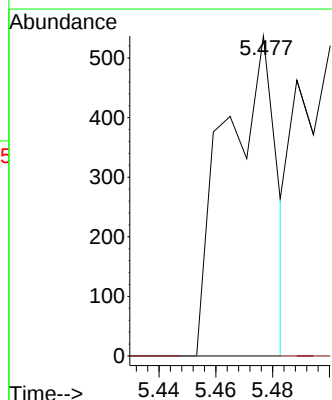
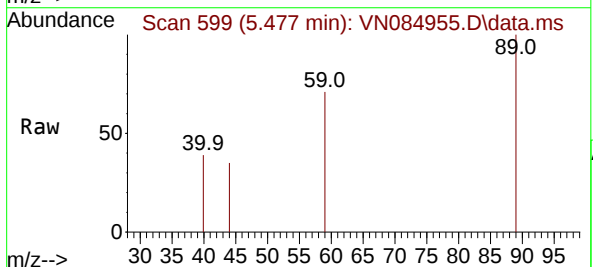
Instrument :
MSVOA_N
ClientSampleId :
RR-1

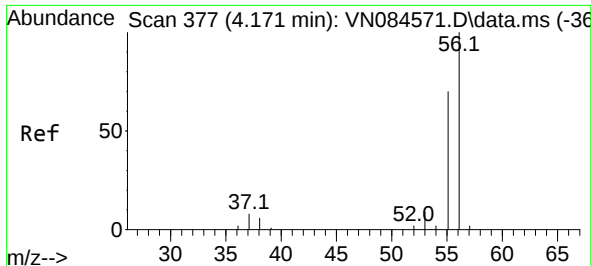
Tgt Ion: 64 Resp: 197
Ion Ratio Lower Upper
64 100
66 0.0 23.5 35.3#



#11
Tert butyl alcohol
Concen: 2.139 ug/l
RT: 5.477 min Scan# 599
Delta R.T. -0.047 min
Lab File: VN084955.D
Acq: 19 Nov 2024 18:28

Tgt Ion: 59 Resp: 674
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

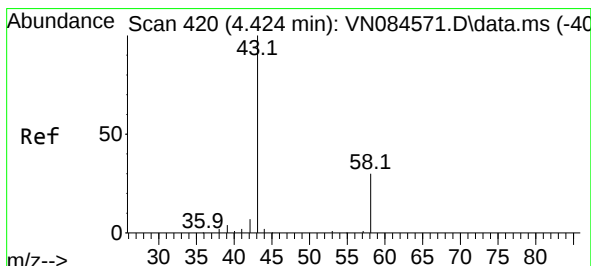
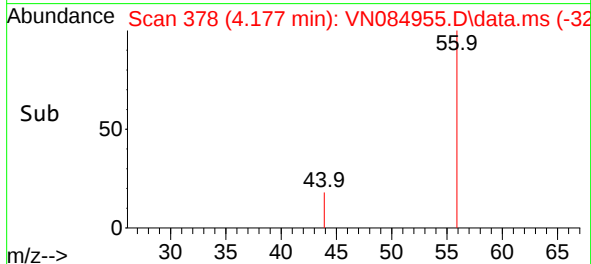
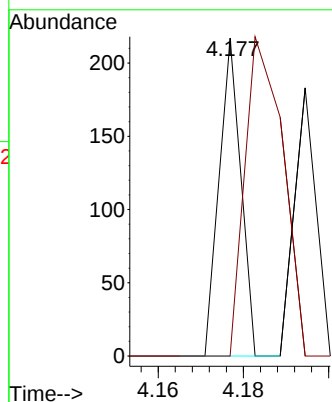
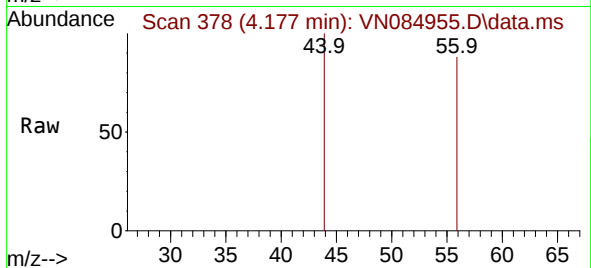




#13
Acrolein
Concen: 0.245 ug/l
RT: 4.177 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN084955.D
Acq: 19 Nov 2024 18:28

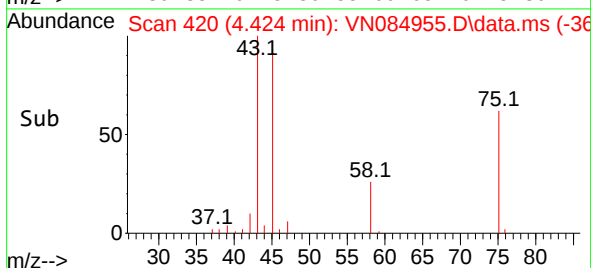
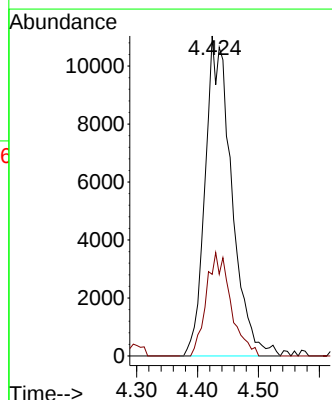
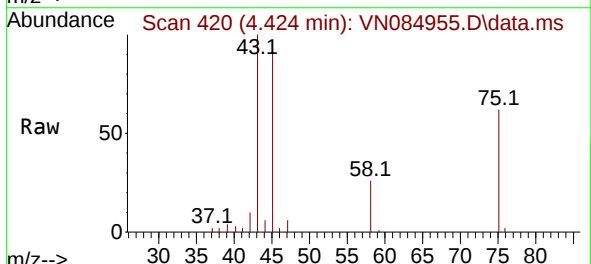
Instrument :
MSVOA_N
ClientSampleId :
RR-1

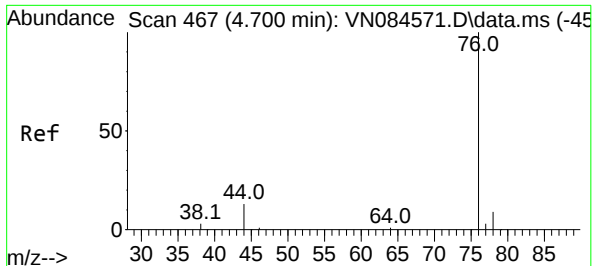
Tgt Ion: 56 Resp: 77
Ion Ratio Lower Upper
56 100
55 174.0 57.2 85.8#



#16
Acetone
Concen: 46.036 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN084955.D
Acq: 19 Nov 2024 18:28

Tgt Ion: 43 Resp: 33355
Ion Ratio Lower Upper
43 100
58 25.5 24.4 36.6

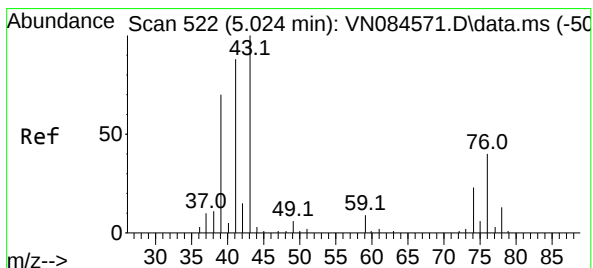
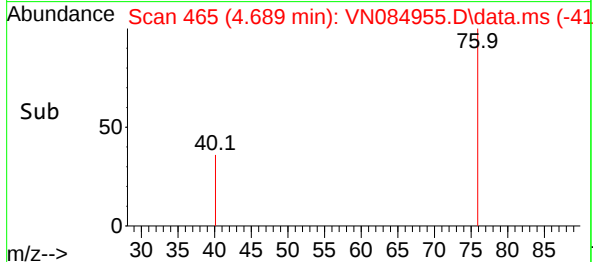
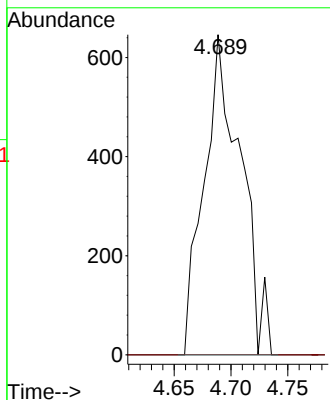
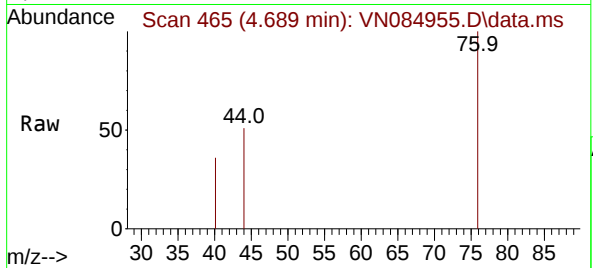




#17
Carbon Disulfide
Concen: 0.250 ug/l
RT: 4.689 min Scan# 465
Delta R.T. -0.023 min
Lab File: VN084955.D
Acq: 19 Nov 2024 18:28

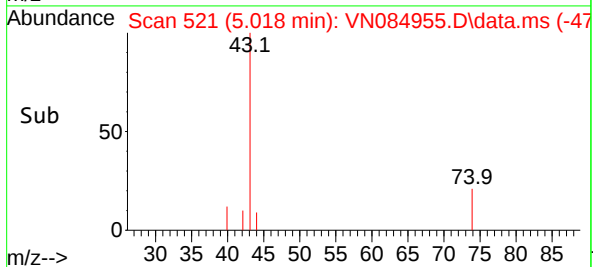
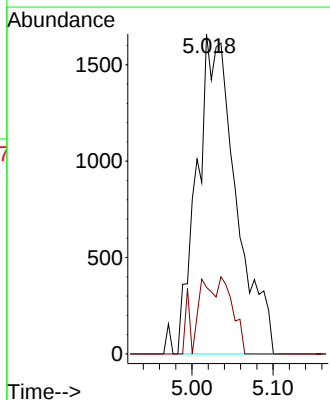
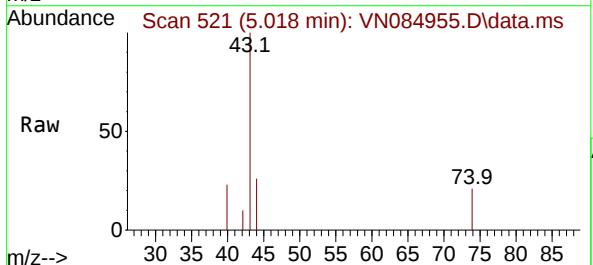
Instrument :
MSVOA_N
ClientSampleId :
RR-1

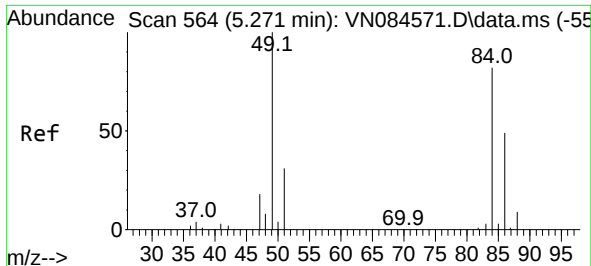
Tgt Ion: 76 Resp: 1450
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#



#18
Methyl Acetate
Concen: Below Cal
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN084955.D
Acq: 19 Nov 2024 18:28

Tgt Ion: 43 Resp: 5520
Ion Ratio Lower Upper
43 100
74 9.9 19.2 28.8#

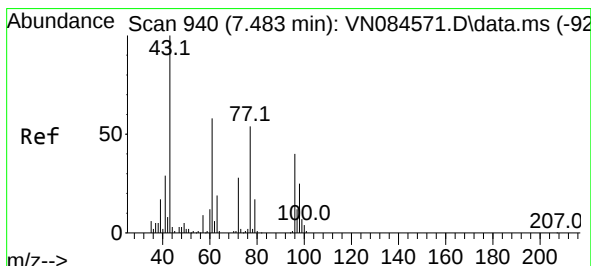
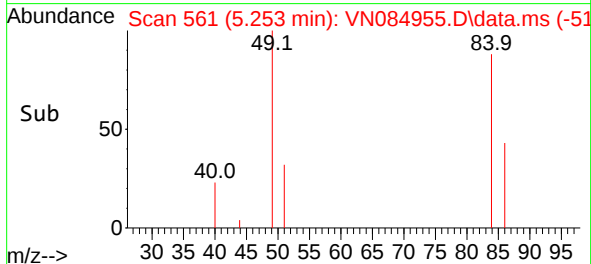
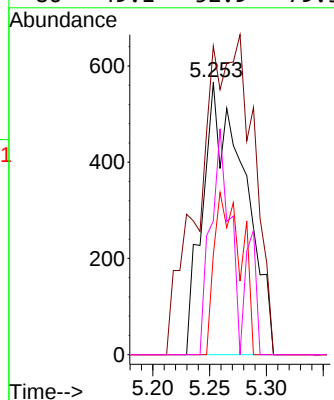
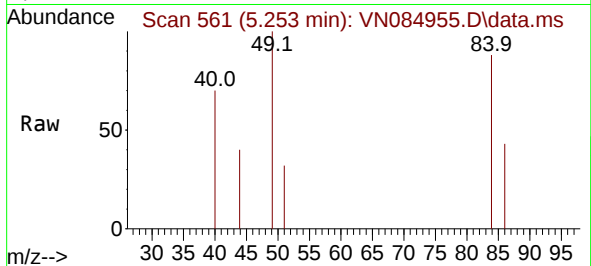




#20
Methylene Chloride
Concen: 0.692 ug/l
RT: 5.253 min Scan# 51
Delta R.T. -0.024 min
Lab File: VN084955.D
Acq: 19 Nov 2024 18:28

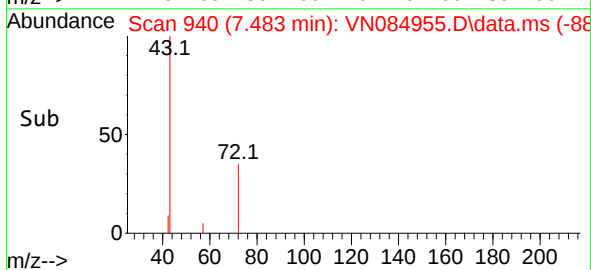
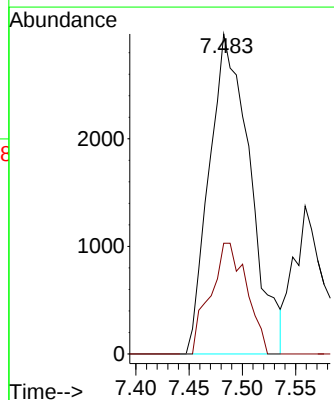
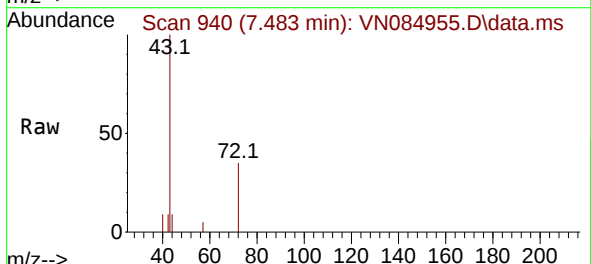
Instrument :
MSVOA_N
ClientSampleId :
RR-1

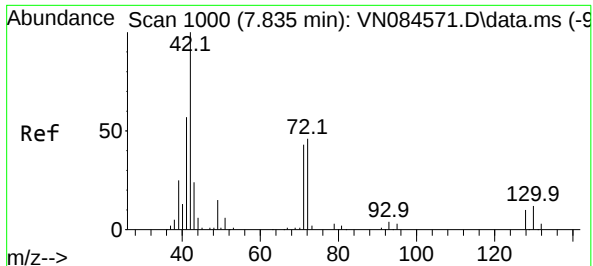
Tgt Ion: 84	Resp:	1454	
Ion	Ratio	Lower	Upper
84	100		
49	113.3	107.2	160.8
51	36.7	31.8	47.8
86	49.1	52.9	79.3#



#25
2-Butanone
Concen: 7.115 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN084955.D
Acq: 19 Nov 2024 18:28

Tgt Ion: 43	Resp: 7925
Ion Ratio	Lower Upper
43 100	
72 34.6	21.4 32.2#





#29

Tetrahydrofuran

Concen: 0.265 ug/l

RT: 7.847 min Scan# 1065

Delta R.T. 0.012 min

Lab File: VN084955.D

Acq: 19 Nov 2024 18:28

Instrument :

MSVOA_N

ClientSampleId :

RR-1

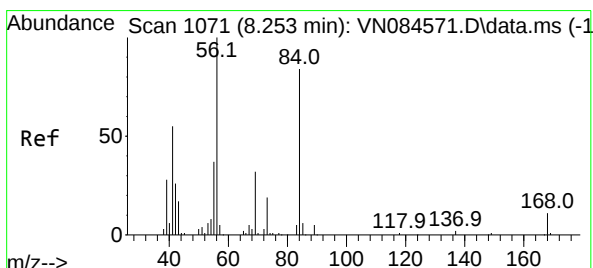
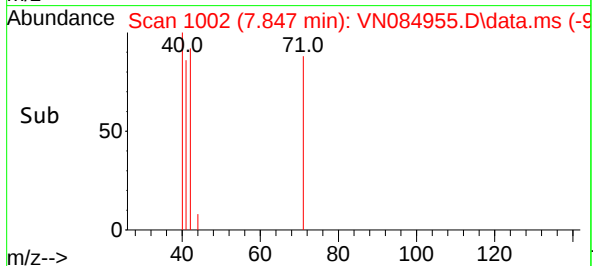
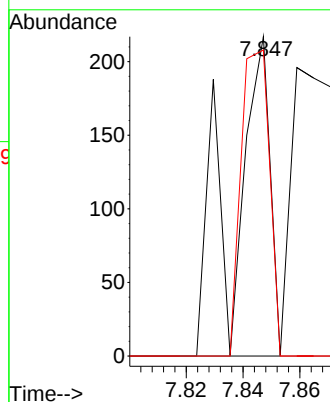
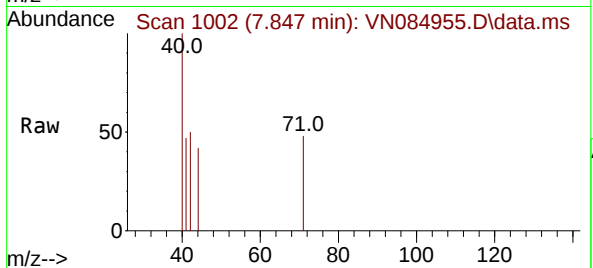
Tgt Ion: 42 Resp: 196

Ion Ratio Lower Upper

42 100

72 0.0 34.6 51.8#

71 74.0 32.2 48.4#



#31

Cyclohexane

Concen: 1.218 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN084955.D

Acq: 19 Nov 2024 18:28

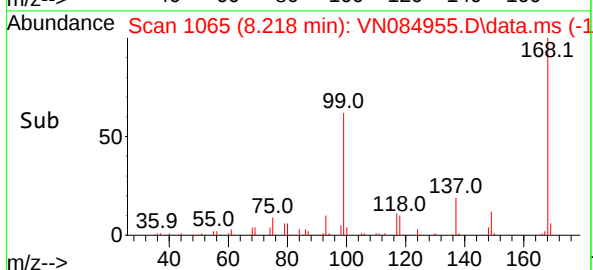
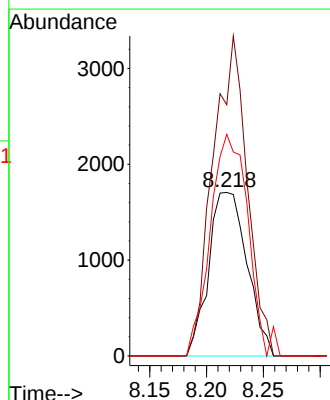
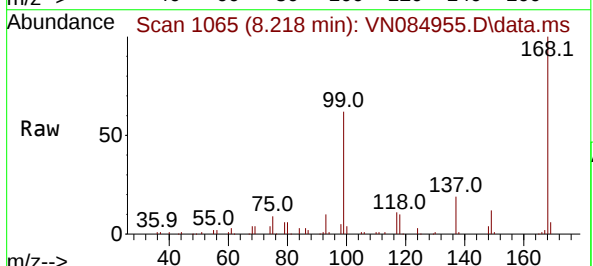
Tgt Ion: 56 Resp: 4014

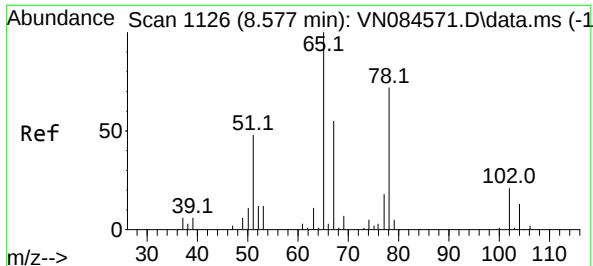
Ion Ratio Lower Upper

56 100

69 153.5 23.8 35.6#

84 135.5 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 52.726 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN084955.D

Acq: 19 Nov 2024 18:28

Instrument :

MSVOA_N

ClientSampleId :

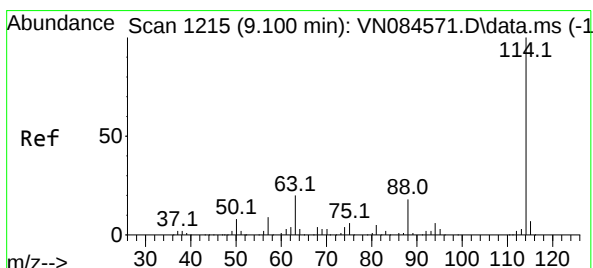
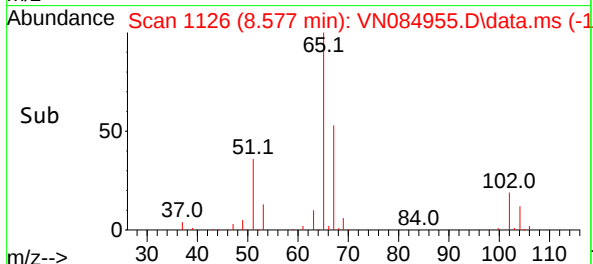
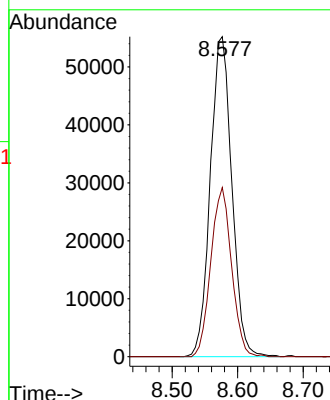
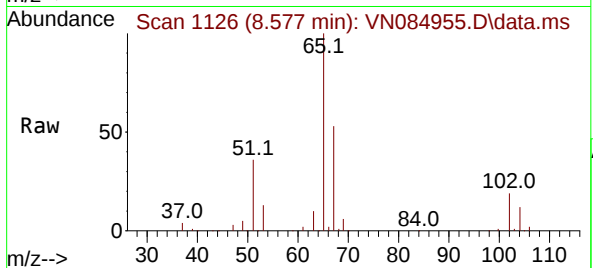
RR-1

Tgt Ion: 65 Resp: 125886

Ion Ratio Lower Upper

65 100

67 50.9 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: VN084955.D

Acq: 19 Nov 2024 18:28

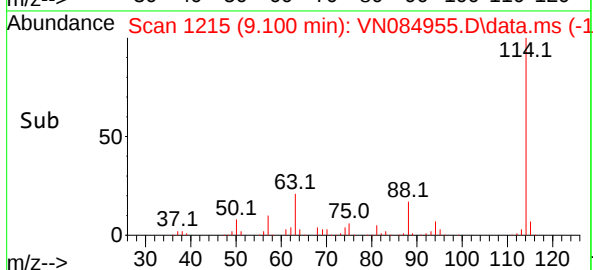
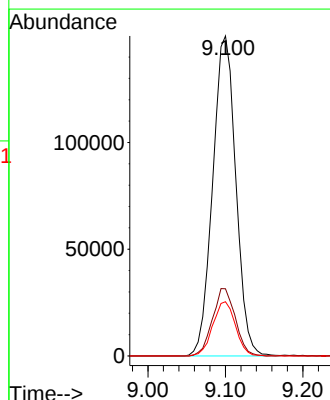
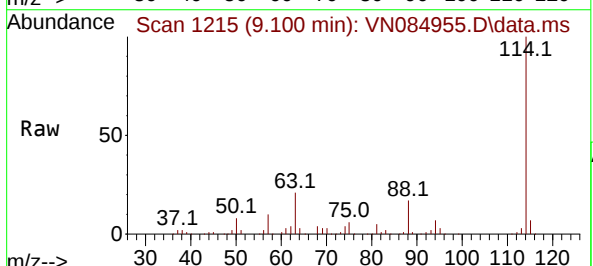
Tgt Ion: 114 Resp: 310949

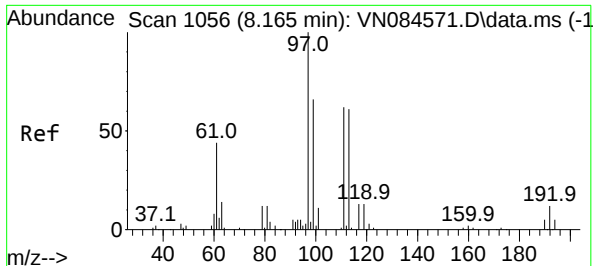
Ion Ratio Lower Upper

114 100

63 21.0 0.0 43.8

88 17.0 0.0 31.6

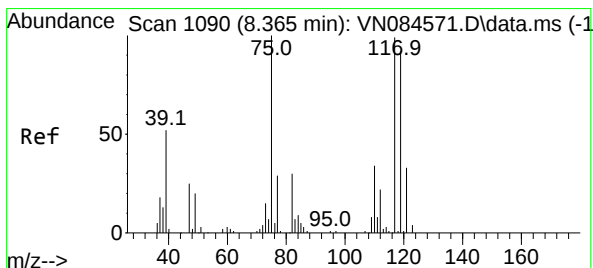
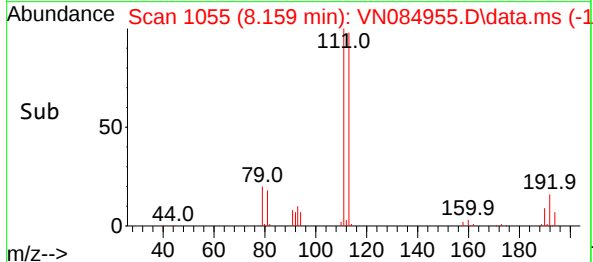
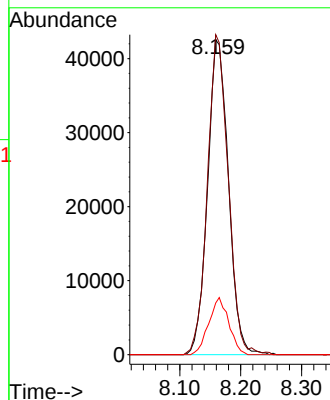
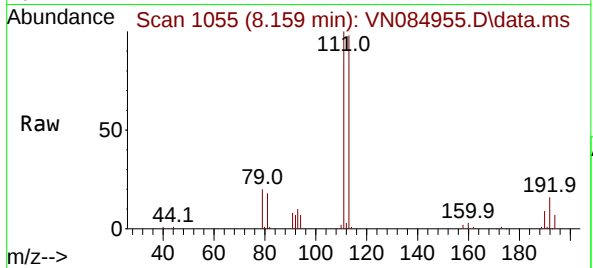




#35
Dibromofluoromethane
Concen: 48.176 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN084955.D
Acq: 19 Nov 2024 18:28

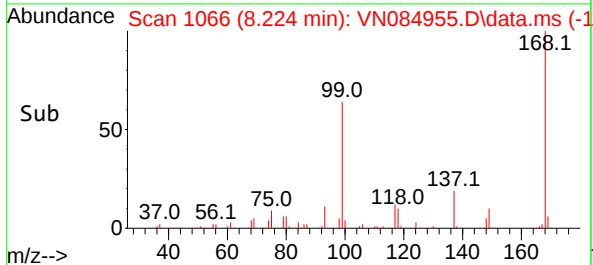
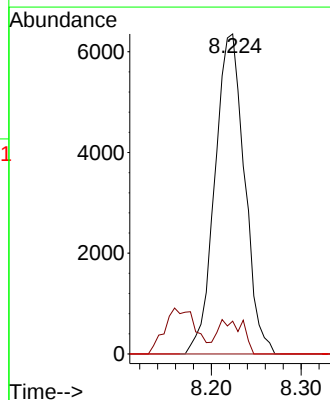
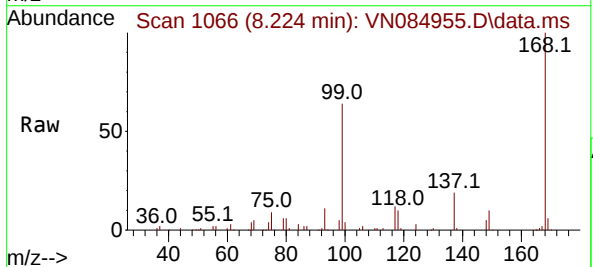
Instrument :
MSVOA_N
ClientSampleId :
RR-1

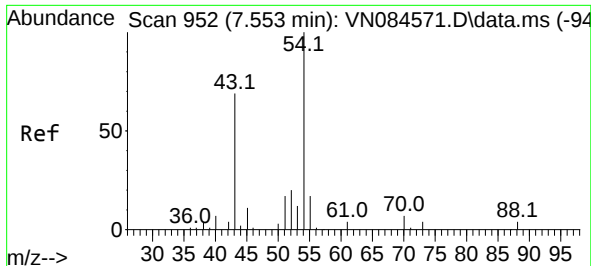
Tgt Ion:113 Resp: 101398
Ion Ratio Lower Upper
113 100
111 101.0 83.3 124.9
192 17.4 13.5 20.3



#36
1,1-Dichloropropene
Concen: 4.993 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN084955.D
Acq: 19 Nov 2024 18:28

Tgt Ion: 75 Resp: 14575
Ion Ratio Lower Upper
75 100
110 9.5 16.9 50.7#
77 0.0 24.7 37.1#

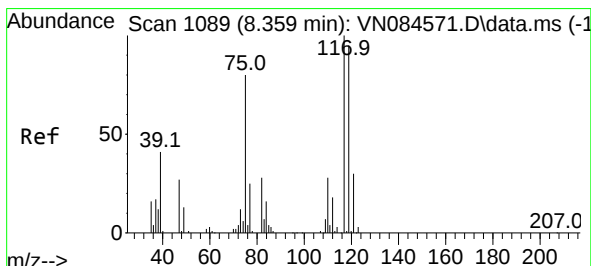
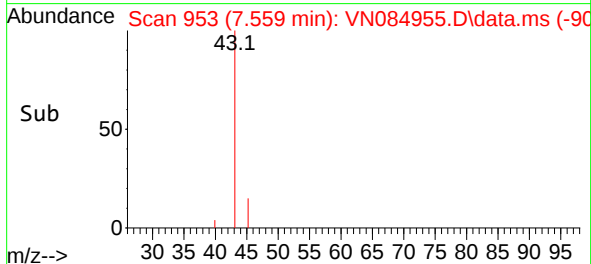
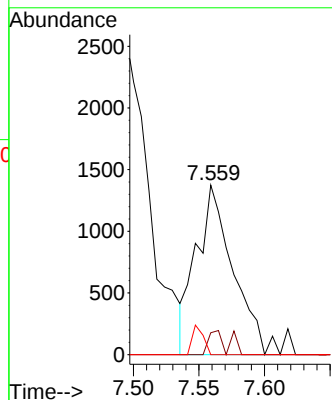
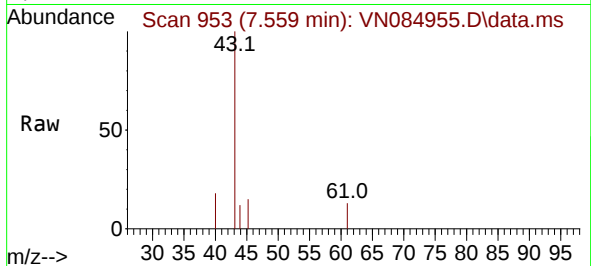




#37
Ethyl Acetate
Concen: 1.019 ug/l
RT: 7.559 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN084955.D
Acq: 19 Nov 2024 18:28

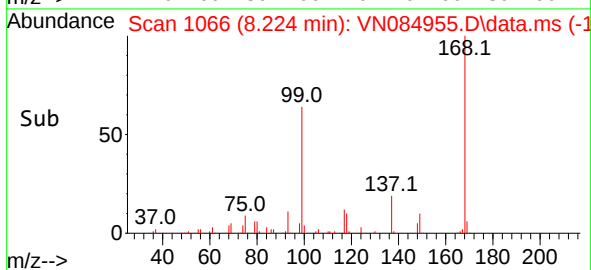
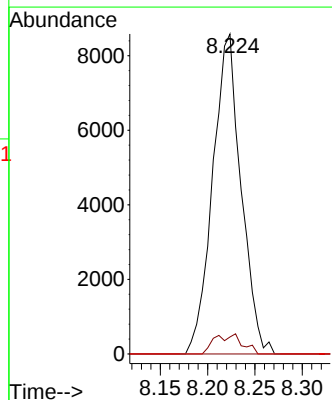
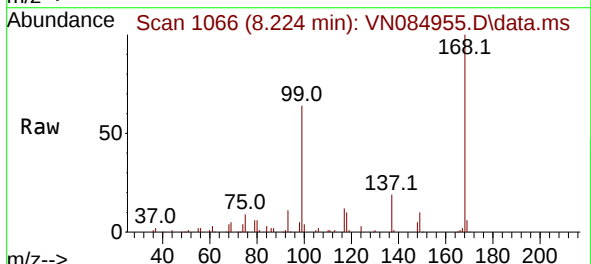
Instrument :
MSVOA_N
ClientSampleId :
RR-1

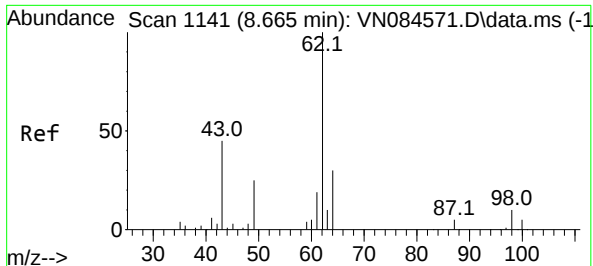
Tgt Ion: 43 Resp: 2699
Ion Ratio Lower Upper
43 100
61 7.4 10.7 16.1#
70 5.2 8.8 13.2#



#38
Carbon Tetrachloride
Concen: 5.490 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN084955.D
Acq: 19 Nov 2024 18:28

Tgt Ion: 117 Resp: 17912
Ion Ratio Lower Upper
117 100
119 5.3 78.7 118.1#
121 0.0 24.4 36.6#





#42

1,2-Dichloroethane

Concen: 0.245 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.023 min

Lab File: VN084955.D

Acq: 19 Nov 2024 18:28

Instrument :

MSVOA_N

ClientSampleId :

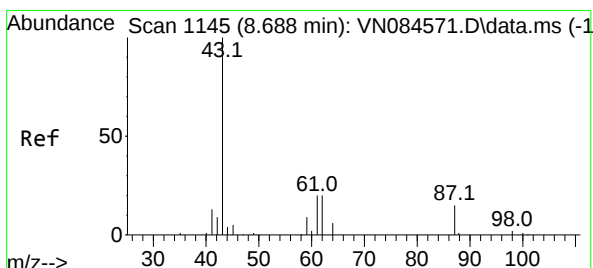
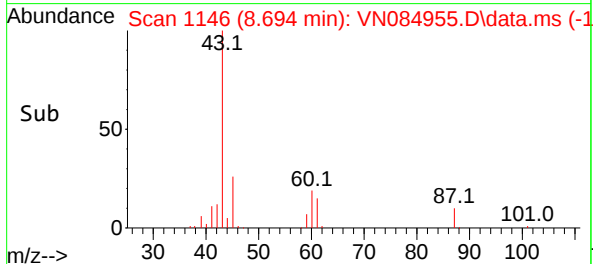
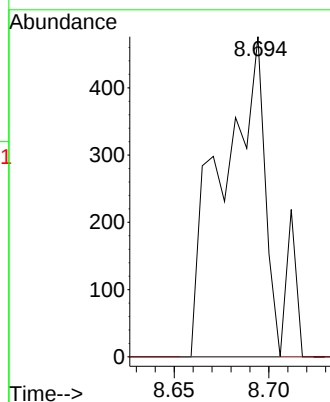
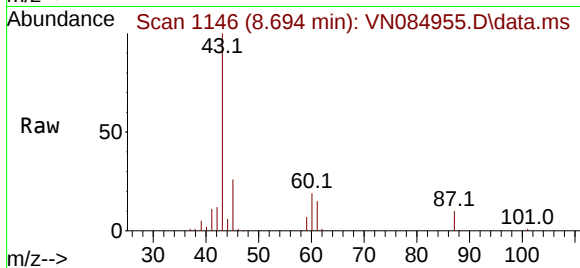
RR-1

Tgt Ion: 62 Resp: 744

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2



#43

Isopropyl Acetate

Concen: 40.186 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN084955.D

Acq: 19 Nov 2024 18:28

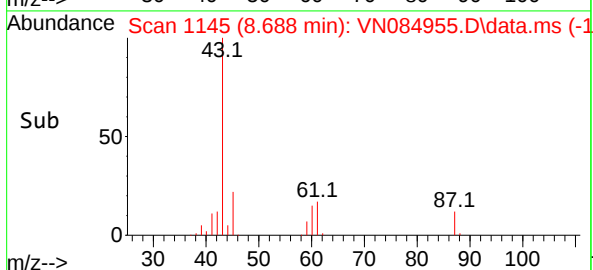
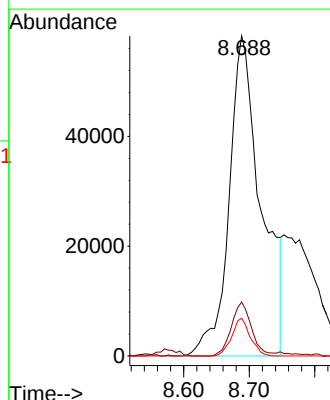
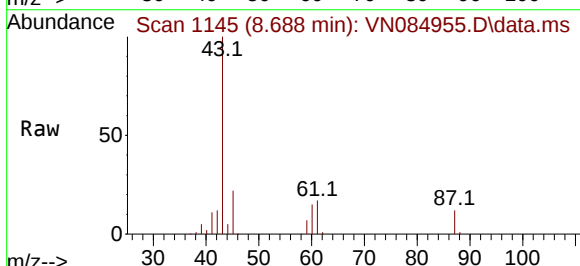
Tgt Ion: 43 Resp: 197548

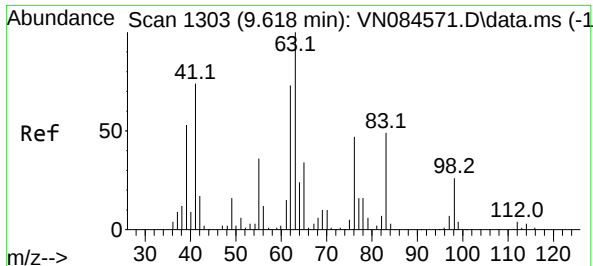
Ion Ratio Lower Upper

43 100

61 10.7 20.4 30.6#

87 6.8 10.3 15.5#





#45

1,2-Dichloropropane

Concen: 0.480 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.123 min

Lab File: VN084955.D

Acq: 19 Nov 2024 18:28

Instrument :

MSVOA_N

ClientSampleId :

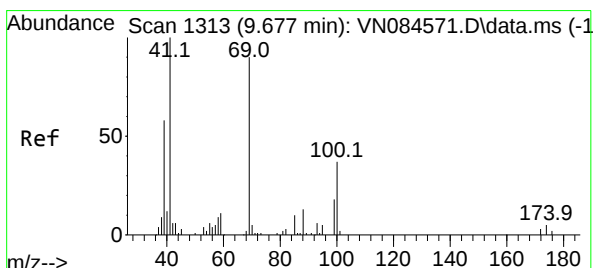
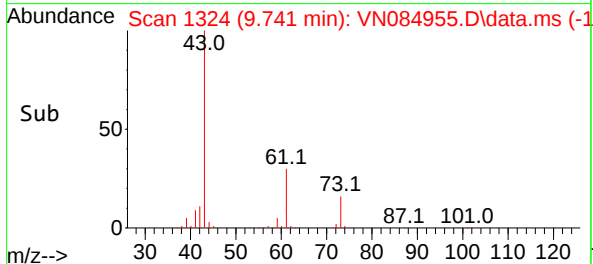
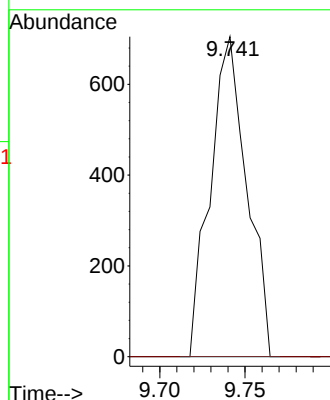
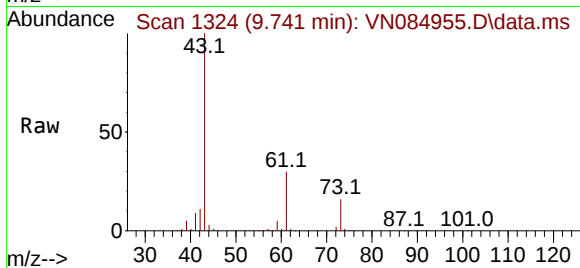
RR-1

Tgt Ion: 63 Resp: 1056

Ion Ratio Lower Upper

63 100

65 0.0 24.6 37.0#



#48

Methyl methacrylate

Concen: 1.389 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.012 min

Lab File: VN084955.D

Acq: 19 Nov 2024 18:28

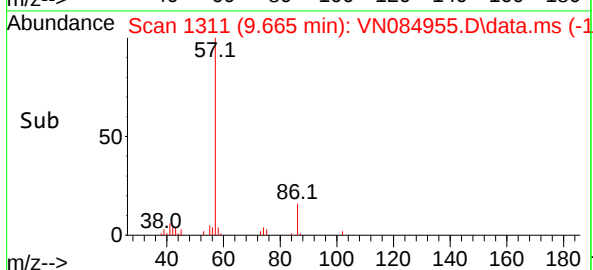
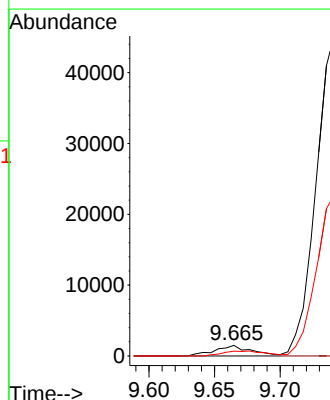
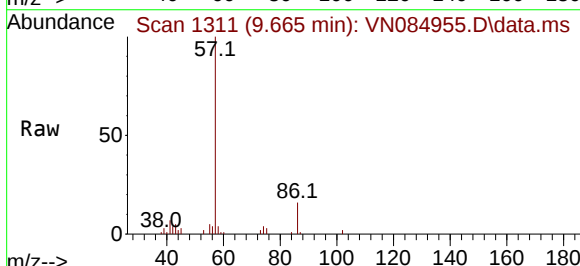
Tgt Ion: 41 Resp: 2863

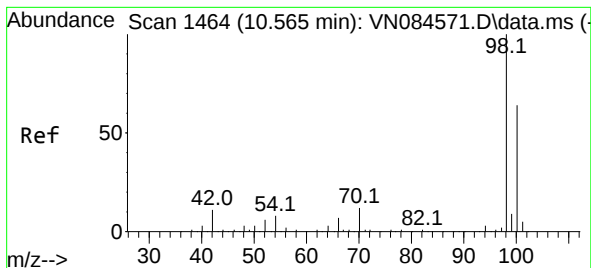
Ion Ratio Lower Upper

41 100

69 0.0 67.1 100.7#

39 54.3 45.8 68.6





#50

Toluene-d8

Concen: 48.171 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084955.D

Acq: 19 Nov 2024 18:28

Instrument :

MSVOA_N

ClientSampleId :

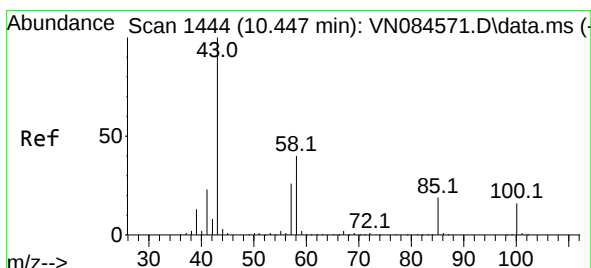
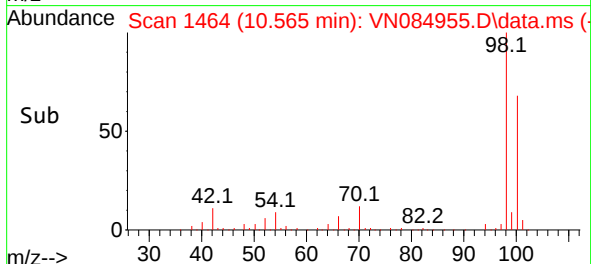
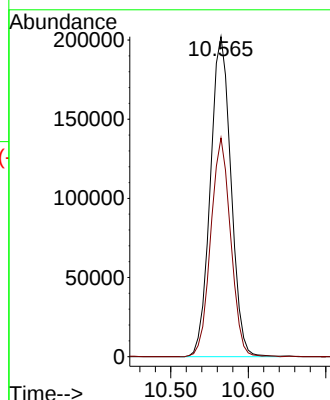
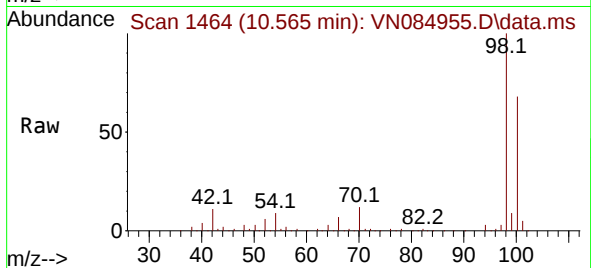
RR-1

Tgt Ion: 98 Resp: 373477

Ion Ratio Lower Upper

98 100

100 66.0 52.7 79.1



#51

4-Methyl-2-Pentanone

Concen: 2.816 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. 0.006 min

Lab File: VN084955.D

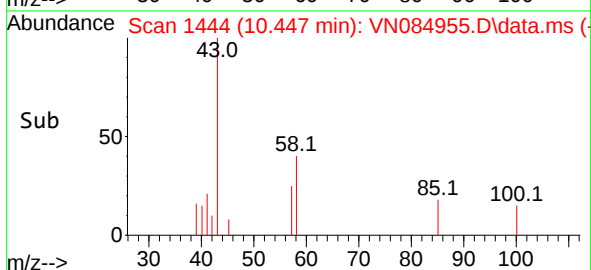
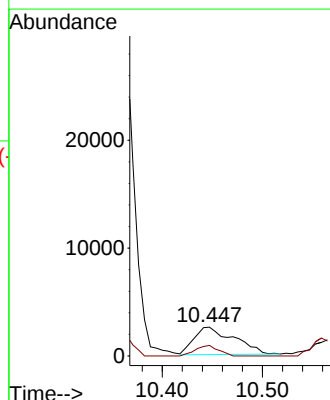
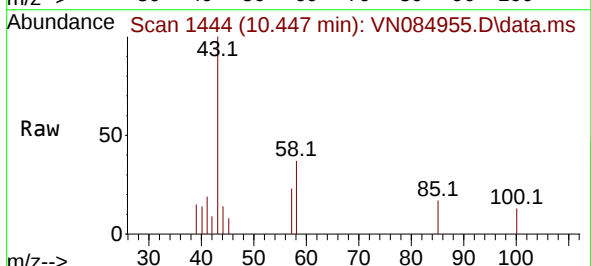
Acq: 19 Nov 2024 18:28

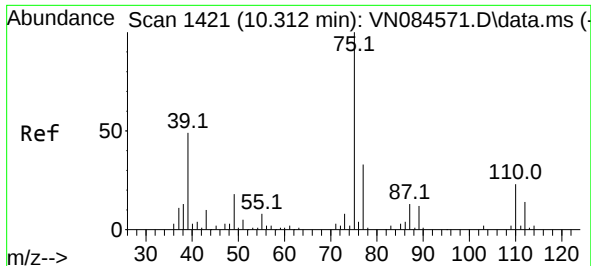
Tgt Ion: 43 Resp: 7110

Ion Ratio Lower Upper

43 100

58 22.1 31.6 47.4#

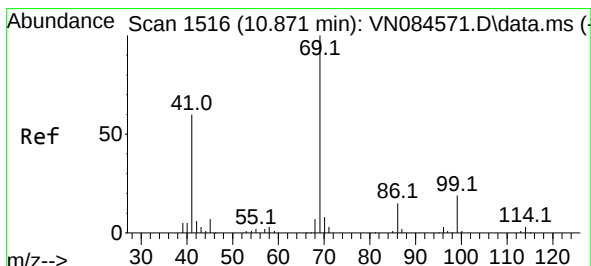
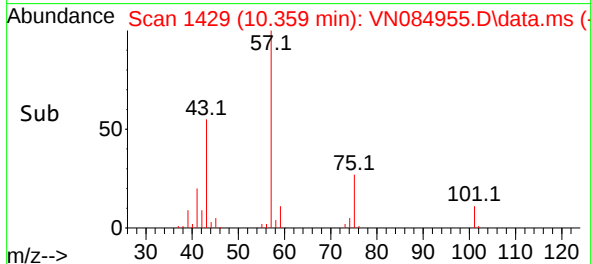
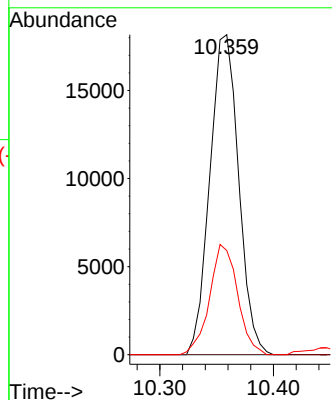
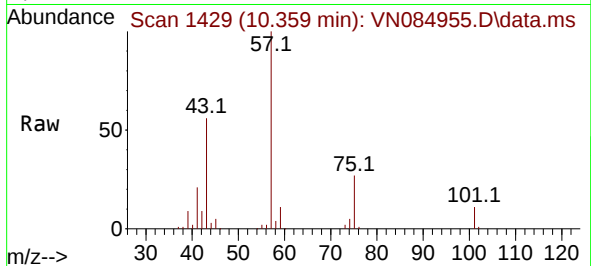




#54
 cis-1,3-Dichloropropene
 Concen: 8.937 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN084955.D
 Acq: 19 Nov 2024 18:28

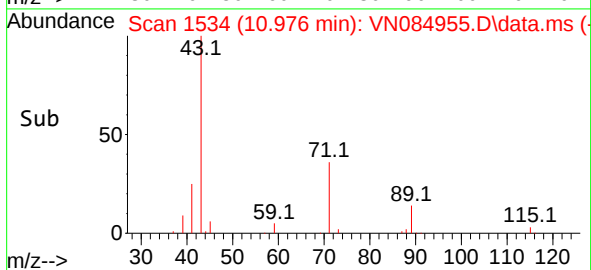
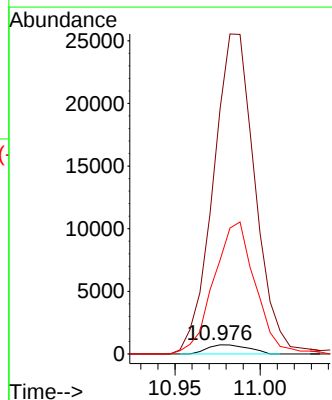
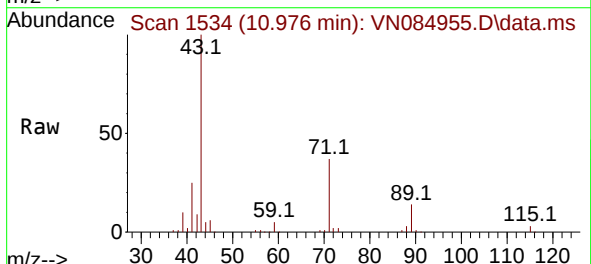
Instrument :
 MSVOA_N
 ClientSampleId :
 RR-1

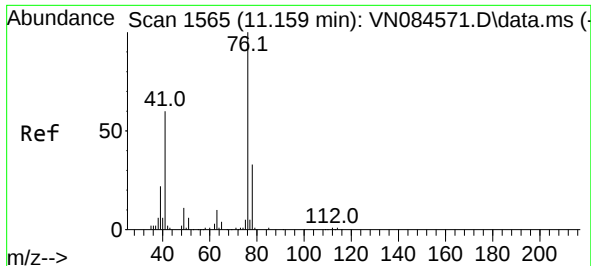
Tgt Ion: 75 Resp: 32024
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.2 36.2#
 39 32.6 38.7 58.1#



#56
 Ethyl methacrylate
 Concen: 0.412 ug/l
 RT: 10.976 min Scan# 1534
 Delta R.T. 0.106 min
 Lab File: VN084955.D
 Acq: 19 Nov 2024 18:28

Tgt Ion: 69 Resp: 1232
 Ion Ratio Lower Upper
 69 100
 41 3550.6 53.3 79.9#
 39 1451.1 28.8 43.2#





#57

1,3-Dichloropropane

Concen: 1.149 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN084955.D

Acq: 19 Nov 2024 18:28

Instrument :

MSVOA_N

ClientSampleId :

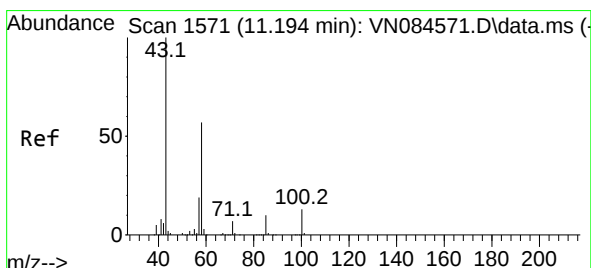
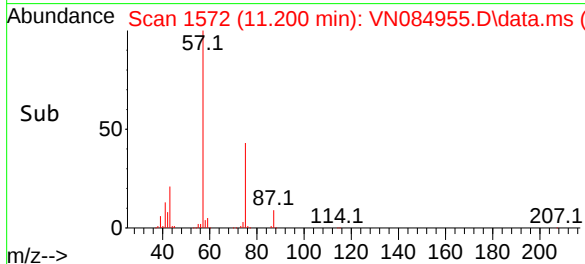
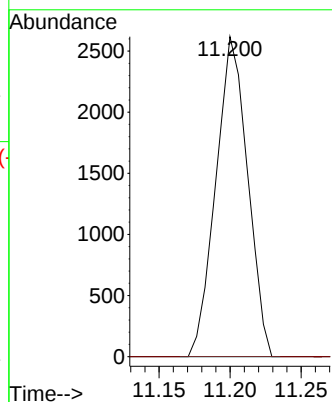
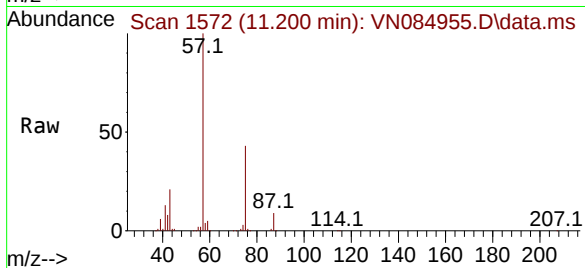
RR-1

Tgt Ion: 76 Resp: 4072

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 27.795 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN084955.D

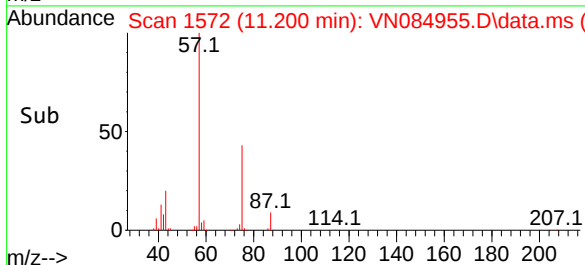
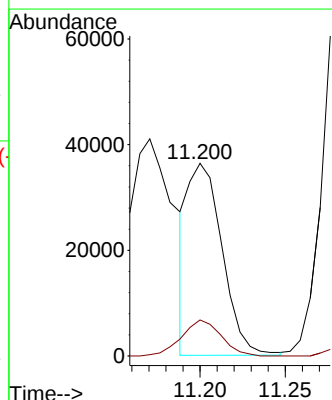
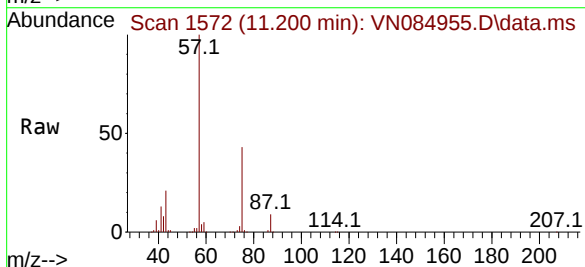
Acq: 19 Nov 2024 18:28

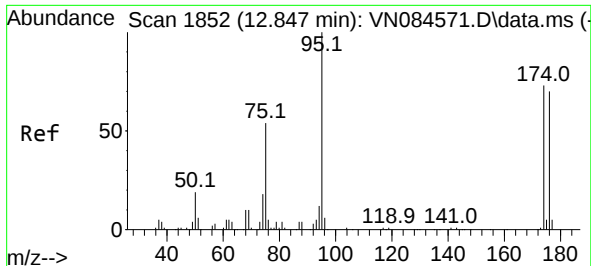
Tgt Ion: 43 Resp: 51079

Ion Ratio Lower Upper

43 100

58 21.5 27.3 81.8#

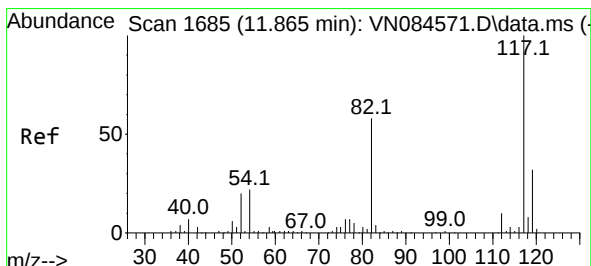
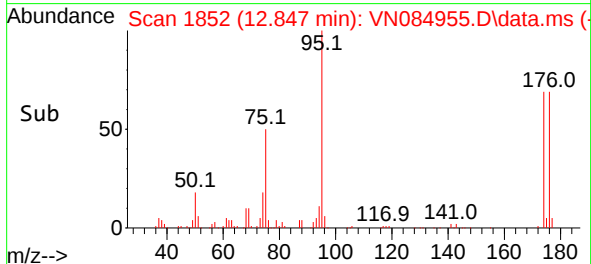
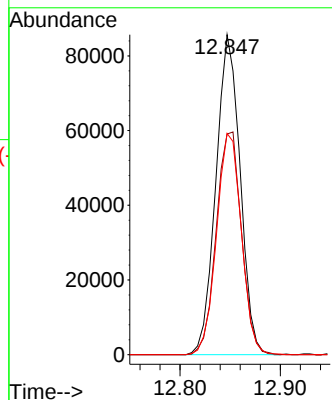
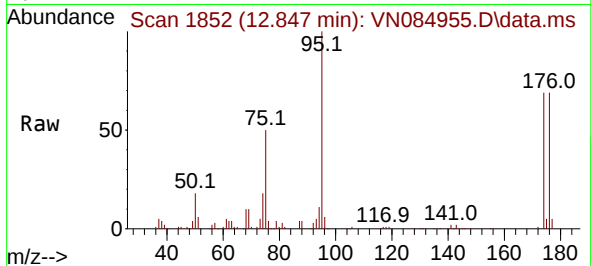




#62
4-Bromofluorobenzene
Concen: 49.547 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084955.D
Acq: 19 Nov 2024 18:28

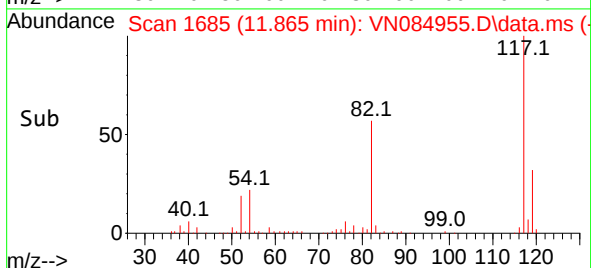
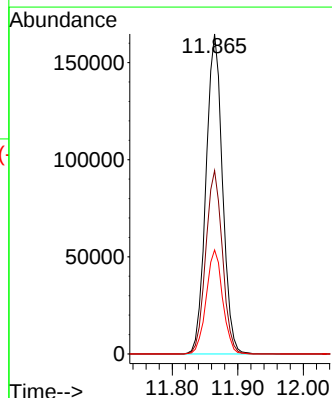
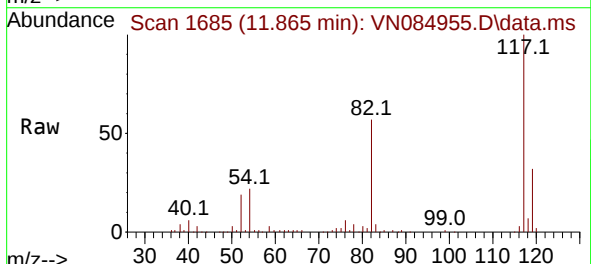
Instrument :
MSVOA_N
ClientSampleId :
RR-1

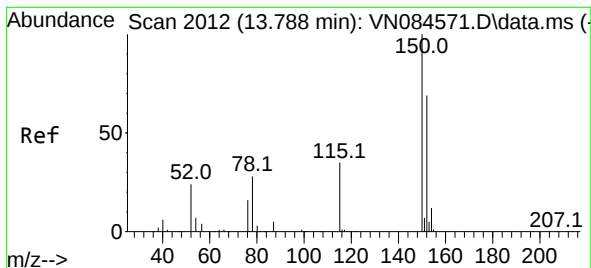
Tgt Ion: 95 Resp: 143570
Ion Ratio Lower Upper
95 100
174 72.6 0.0 145.2
176 70.8 0.0 140.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN084955.D
Acq: 19 Nov 2024 18:28

Tgt Ion: 117 Resp: 288045
Ion Ratio Lower Upper
117 100
82 57.3 47.2 70.8
119 32.5 25.4 38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN084955.D

Acq: 19 Nov 2024 18:28

Instrument :

MSVOA_N

ClientSampleId :

RR-1

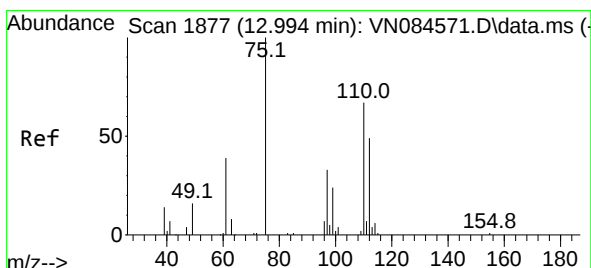
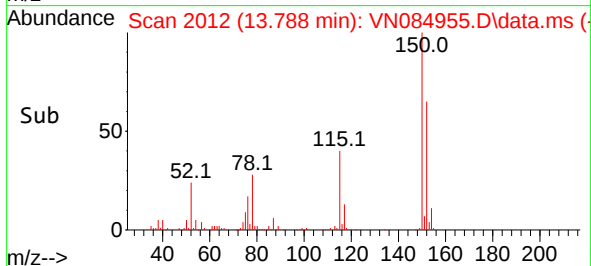
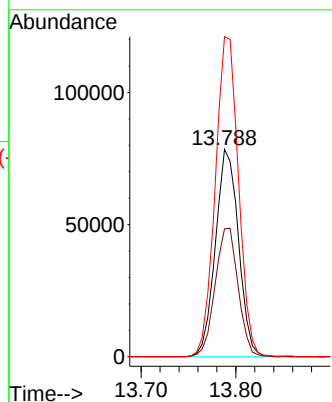
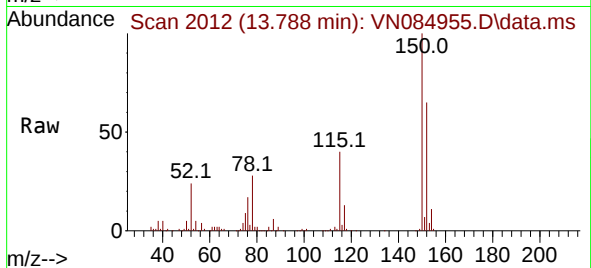
Tgt Ion:152 Resp: 132667

Ion Ratio Lower Upper

152 100

115 62.0 31.3 93.9

150 155.7 0.0 349.8



#76

1,2,3-Trichloropropane

Concen: 28.298 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN084955.D

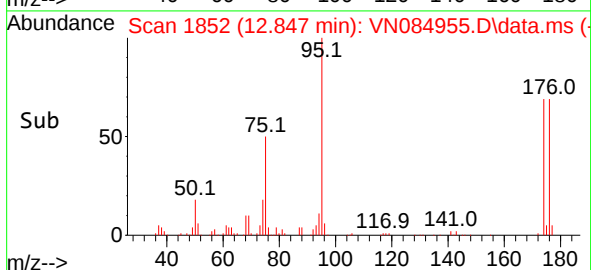
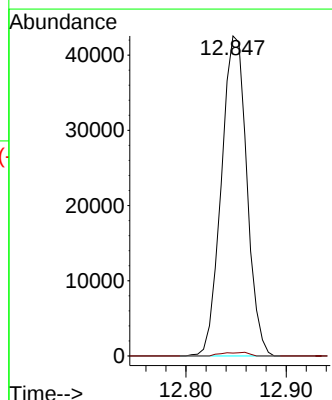
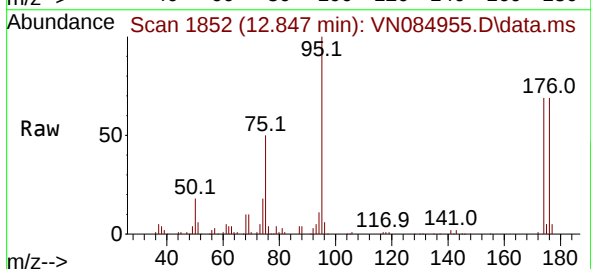
Acq: 19 Nov 2024 18:28

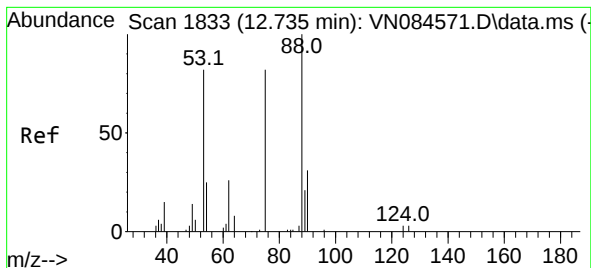
Tgt Ion: 75 Resp: 75046

Ion Ratio Lower Upper

75 100

77 1.2 96.9 290.7#

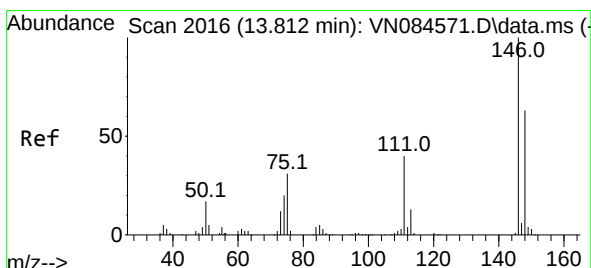
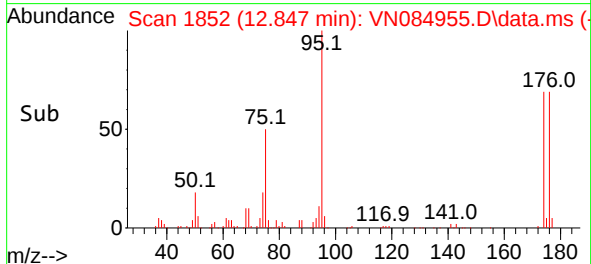
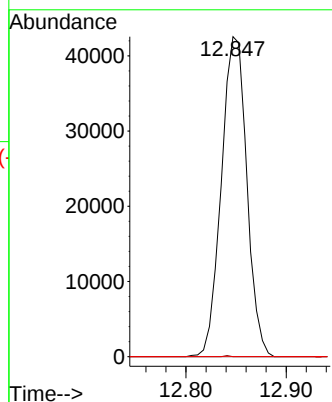
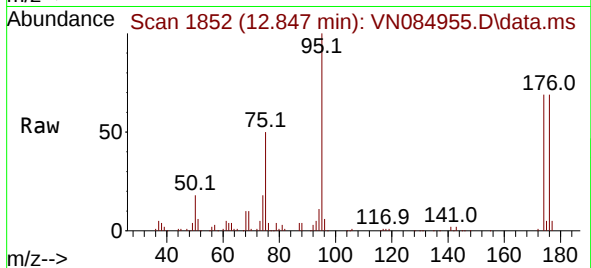




#81
trans-1,4-Dichloro-2-butene
Concen: 67.135 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN084955.D
Acq: 19 Nov 2024 18:28

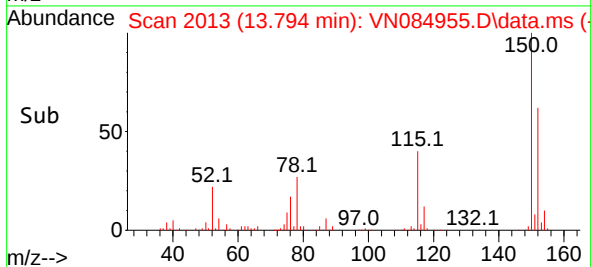
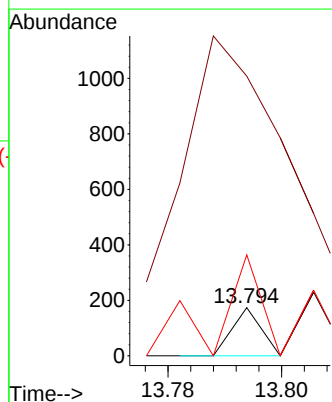
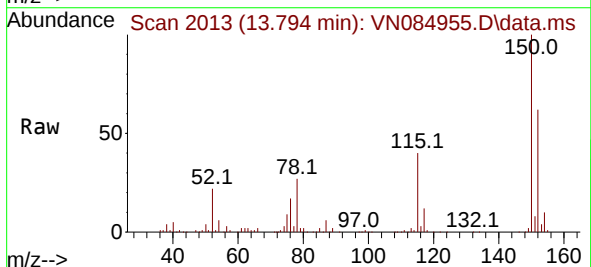
Instrument :
MSVOA_N
ClientSampleId :
RR-1

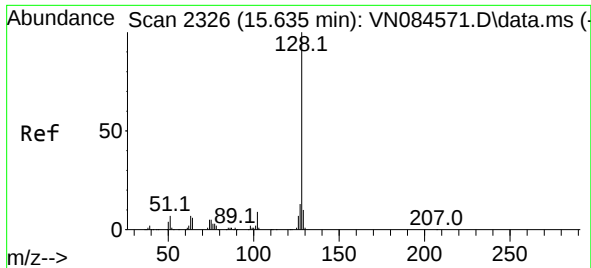
Tgt Ion: 75 Resp: 75046
Ion Ratio Lower Upper
75 100
53 0.1 78.0 117.0#
89 0.0 35.5 53.3#



#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 13.794 min Scan# 2013
Delta R.T. -0.018 min
Lab File: VN084955.D
Acq: 19 Nov 2024 18:28

Tgt Ion:146 Resp: 61
Ion Ratio Lower Upper
146 100
111 2752.5 21.2 63.6#
148 462.3 31.9 95.9#





#95

Naphthalene

Concen: 0.630 ug/l

RT: 15.641 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN084955.D

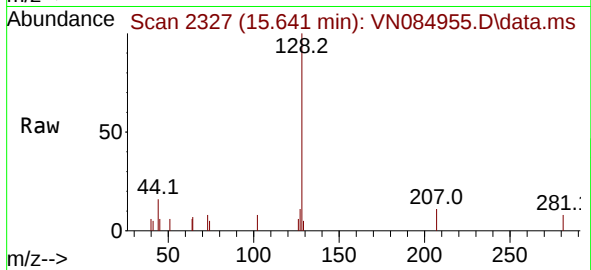
Acq: 19 Nov 2024 18:28

Instrument :

MSVOA_N

ClientSampleId :

RR-1



Tgt Ion:128 Resp: 4836

Ion Ratio Lower Upper

128 100

127 11.4 10.5 15.7

129 4.7 8.7 13.1#

