

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084611.D
 Acq On : 31 Oct 2024 09:22
 Operator : JC\MD
 Sample : PB164501ZHE#20
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

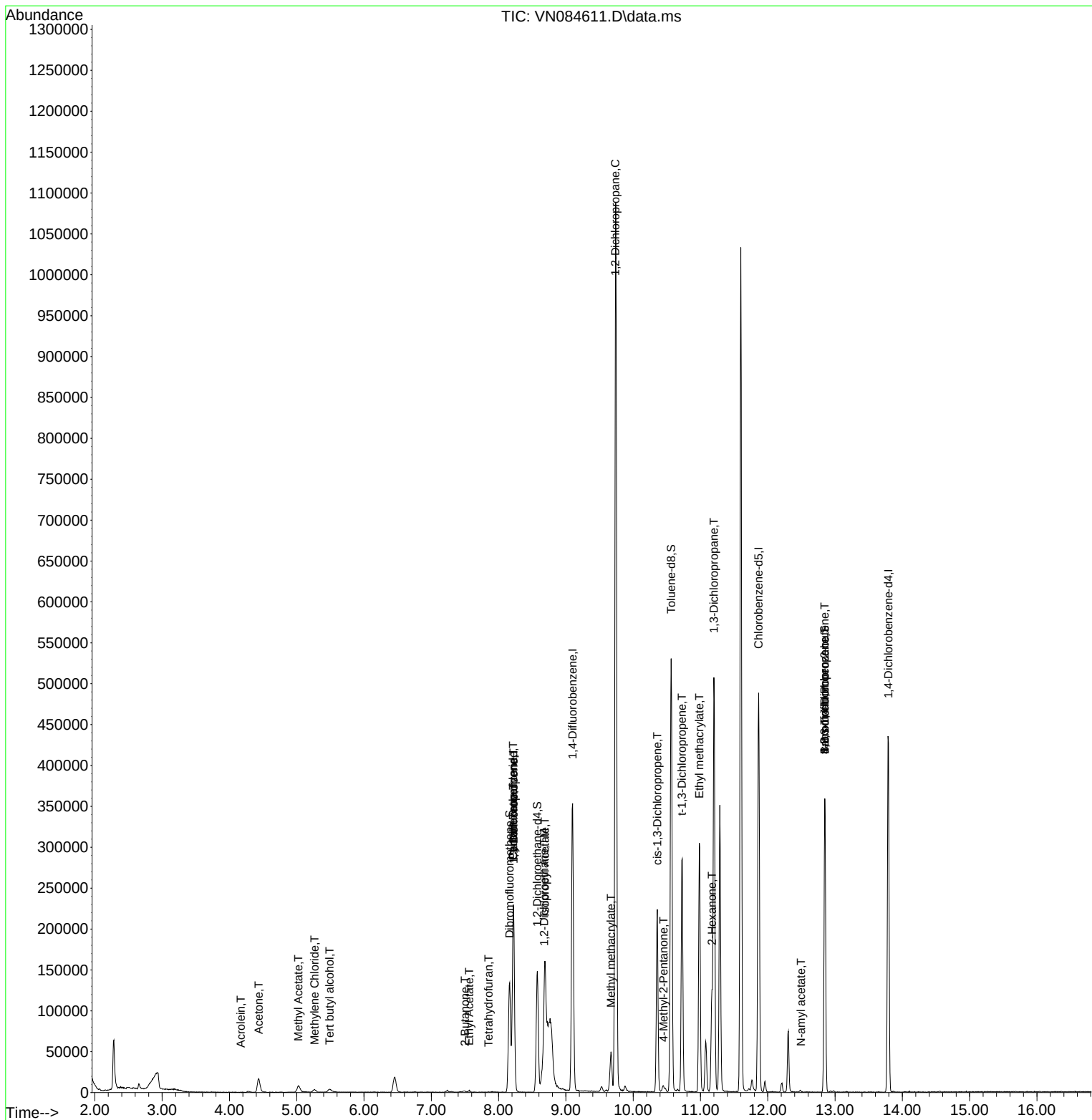
Quant Time: Nov 01 06:21:56 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

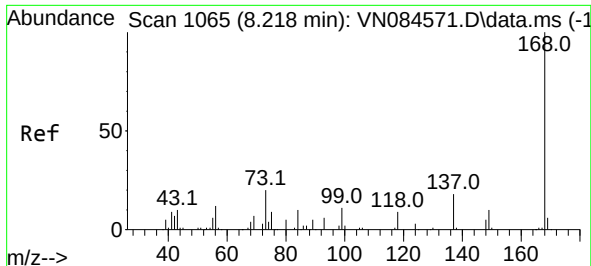
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.218	168	163480	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	305291	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	275900	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	118079	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	122513	51.886	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.780%			
35) Dibromofluoromethane	8.165	113	98404	47.620	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.240%			
50) Toluene-d8	10.565	98	371443	48.796	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.600%			
62) 4-Bromofluorobenzene	12.847	95	127790	44.919	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 89.840%			
Target Compounds						Qvalue
3) Chloromethane	2.365	50	862	Below Cal	#	41
6) Chloroethane	3.083	64	508	Below Cal	#	45
11) Tert butyl alcohol	5.489	59	2444	7.842	ug/l #	73
13) Acrolein	4.171	56	83	0.267	ug/l #	14
16) Acetone	4.436	43	31557	43.916	ug/l	89
18) Methyl Acetate	5.024	43	17356	3.232	ug/l	98
20) Methylene Chloride	5.265	84	2636	1.269	ug/l #	82
25) 2-Butanone	7.500	43	3106	2.820	ug/l #	88
29) Tetrahydrofuran	7.853	42	268	0.367	ug/l #	50
31) Cyclohexane	8.218	56	3811	1.169	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	13990	4.882	ug/l #	51
37) Ethyl Acetate	7.565	43	3017	1.160	ug/l #	80
38) Carbon Tetrachloride	8.218	117	17743	5.539	ug/l #	19
42) 1,2-Dichloroethane	8.677	62	1010	0.339	ug/l #	75
43) Isopropyl Acetate	8.688	43	222274	46.198	ug/l #	76
45) 1,2-Dichloropropane	9.735	63	1360	0.630	ug/l #	44
48) Methyl methacrylate	9.671	41	3335	1.648	ug/l #	41
51) 4-Methyl-2-Pentanone	10.453	43	9310	3.756	ug/l #	72
53) t-1,3-Dichloropropene	10.724	75	842	0.253	ug/l #	43
54) cis-1,3-Dichloropropene	10.359	75	39083	11.109	ug/l #	65
56) Ethyl methacrylate	10.982	69	1508	0.514	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	5476	1.574	ug/l #	42
59) 2-Hexanone	11.171	43	98951	54.843	ug/l #	24
71) Bromoform	12.847	173	708	0.438	ug/l #	1
74) N-amyl acetate	12.494	43	1662	0.472	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	65353	27.688	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	65353	65.687	ug/l #	11

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

Quant Time: Nov 01 06:21:56 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

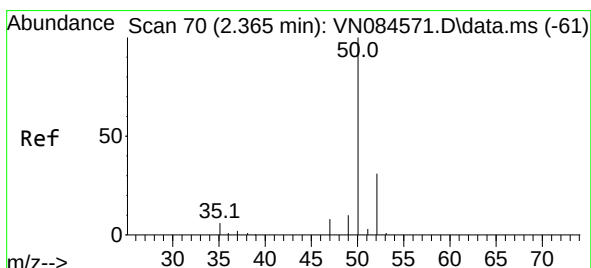
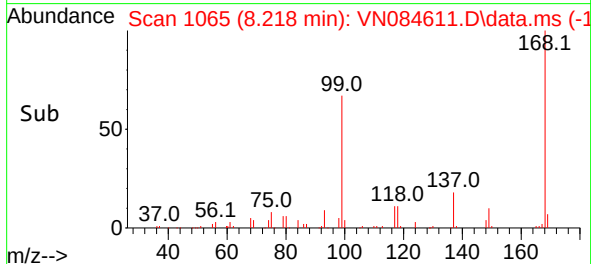
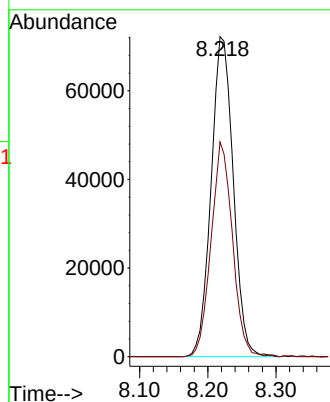
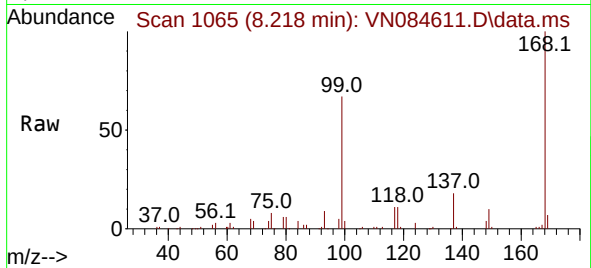




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VN084611.D
Acq: 31 Oct 2024 09:22

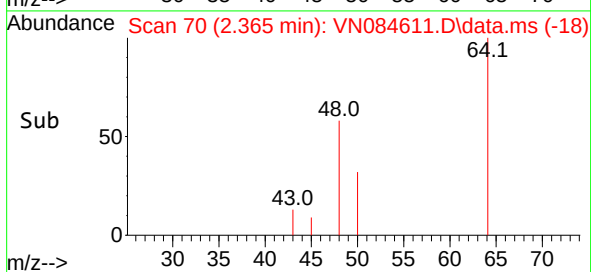
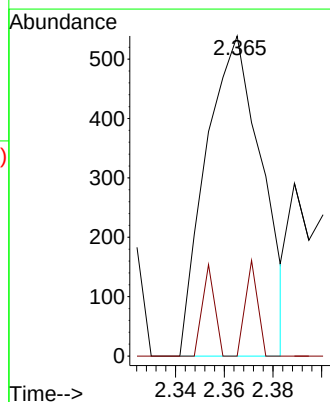
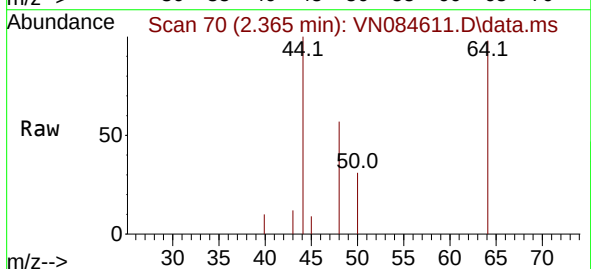
Instrument :
MSVOA_N
ClientSampleId :

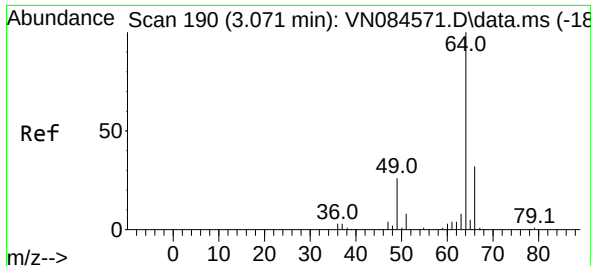
Tgt Ion:168 Resp: 163480
Ion Ratio Lower Upper
168 100
99 67.1 54.2 81.2



#3
Chloromethane
Concen: Below Cal
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN084611.D
Acq: 31 Oct 2024 09:22

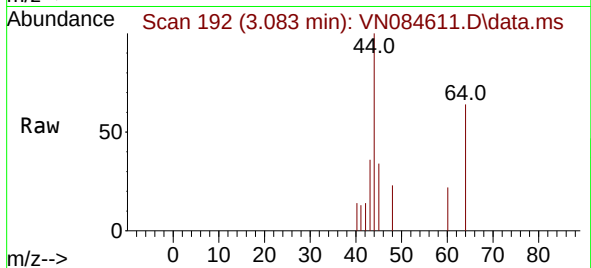
Tgt Ion: 50 Resp: 862
Ion Ratio Lower Upper
50 100
52 0.0 26.8 40.2#



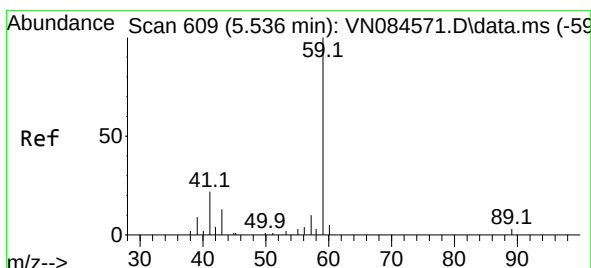
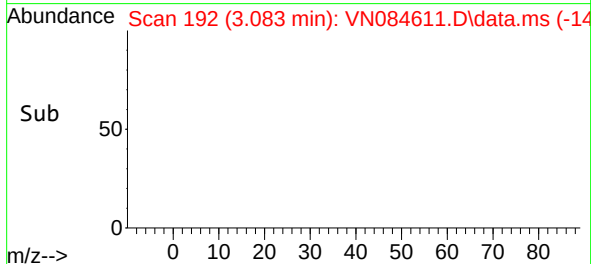
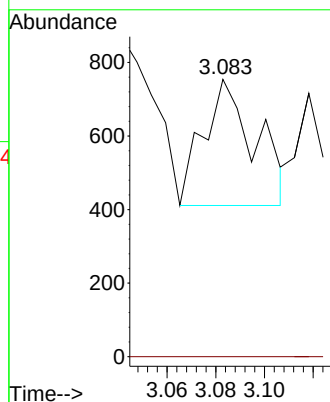


#6
Chloroethane
Concen: Below Cal
RT: 3.083 min Scan# 190
Delta R.T. -0.035 min
Lab File: VN084611.D
Acq: 31 Oct 2024 09:22

Instrument :
MSVOA_N
ClientSampleId :

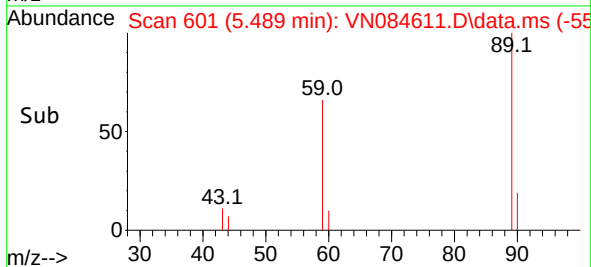
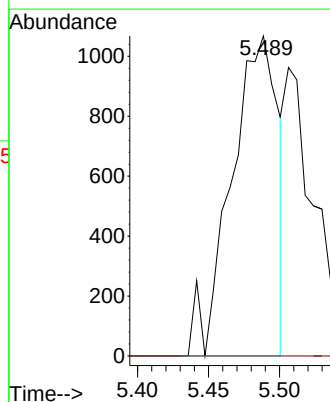
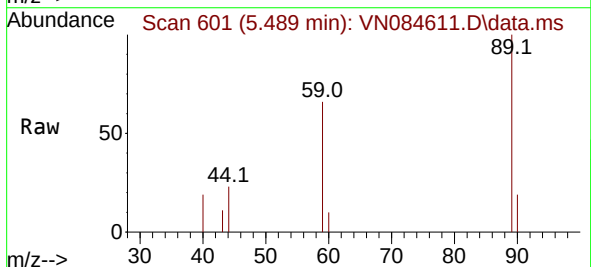


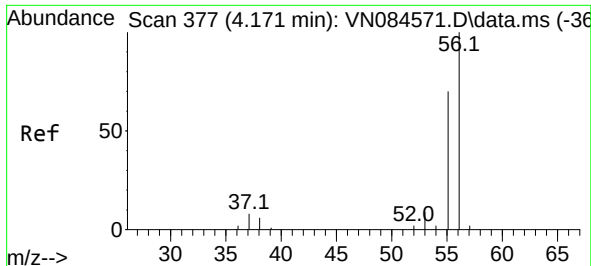
Tgt Ion: 64 Resp: 508
Ion Ratio Lower Upper
64 100
66 0.0 23.5 35.3#



#11
Tert butyl alcohol
Concen: 7.842 ug/l
RT: 5.489 min Scan# 601
Delta R.T. -0.035 min
Lab File: VN084611.D
Acq: 31 Oct 2024 09:22

Tgt Ion: 59 Resp: 2444
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#





#13

Acrolein

Concen: 0.267 ug/l

RT: 4.171 min Scan# 31

Delta R.T. -0.006 min

Lab File: VN084611.D

Acq: 31 Oct 2024 09:22

Instrument :

MSVOA_N

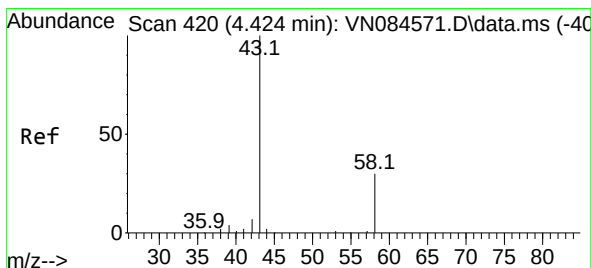
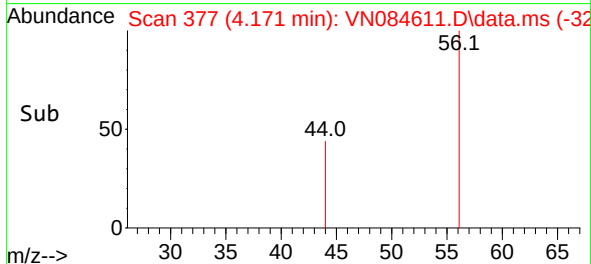
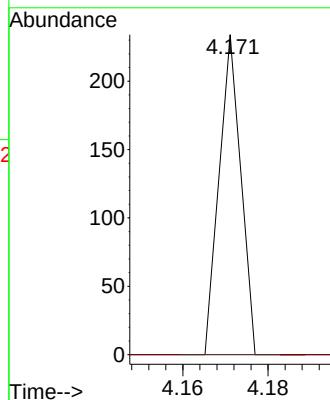
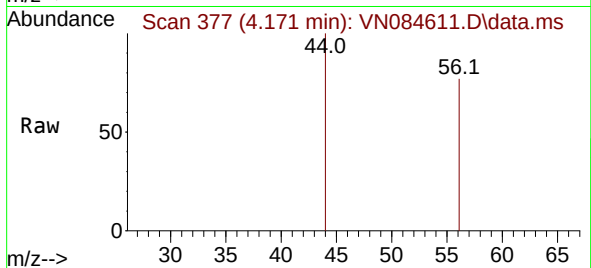
ClientSampleId :

Tgt Ion: 56 Resp: 83

Ion Ratio Lower Upper

56 100

55 0.0 57.2 85.8#



#16

Acetone

Concen: 43.916 ug/l

RT: 4.436 min Scan# 422

Delta R.T. 0.012 min

Lab File: VN084611.D

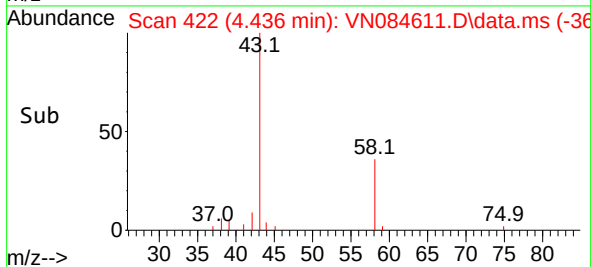
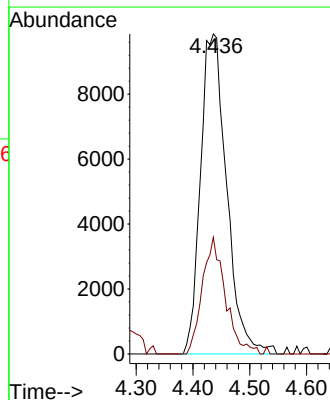
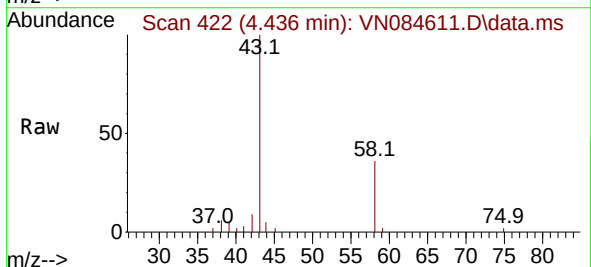
Acq: 31 Oct 2024 09:22

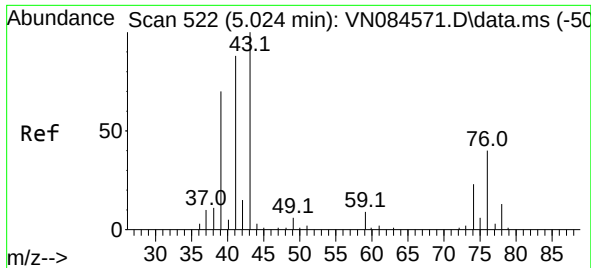
Tgt Ion: 43 Resp: 31557

Ion Ratio Lower Upper

43 100

58 36.4 24.4 36.6

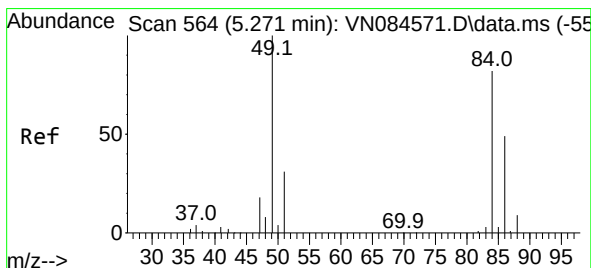
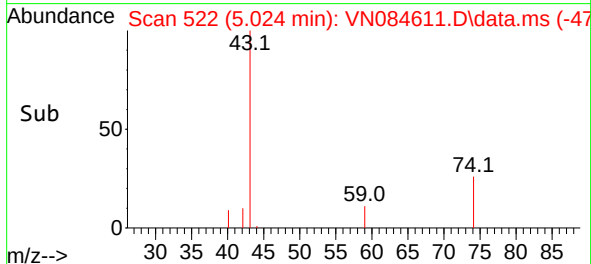
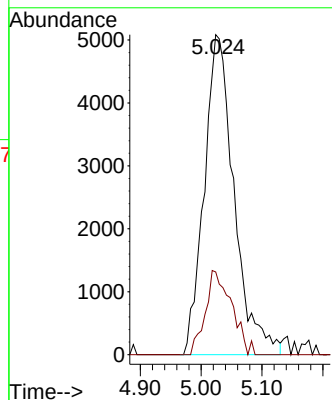
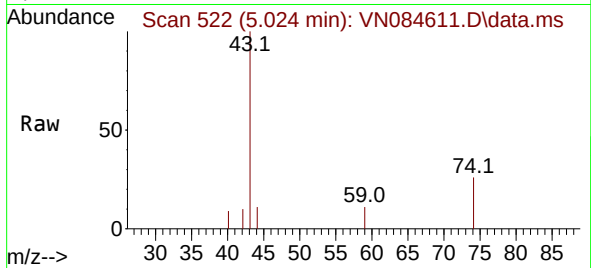




#18
Methyl Acetate
Concen: 3.232 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN084611.D
Acq: 31 Oct 2024 09:22

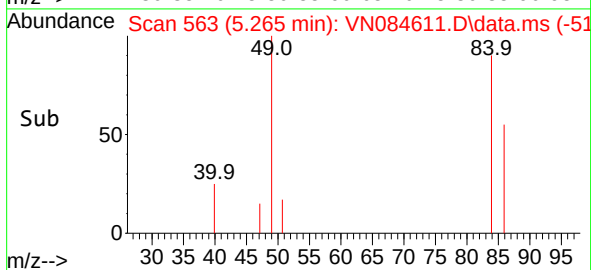
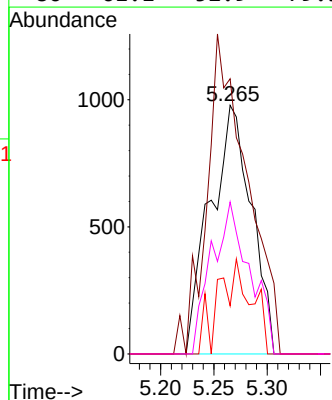
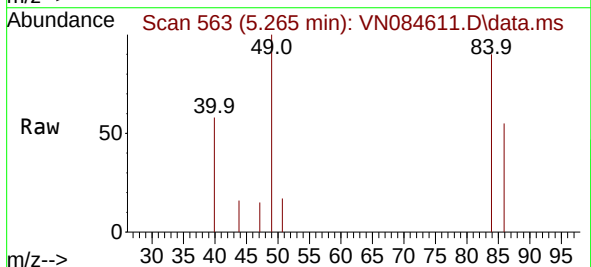
Instrument :
MSVOA_N
ClientSampleId :

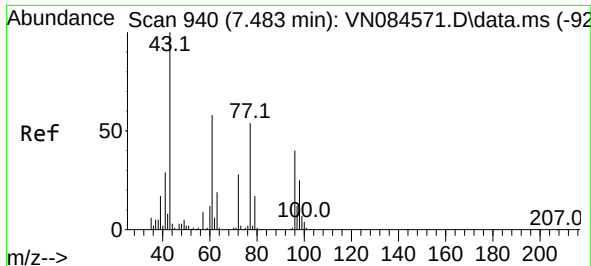
Tgt Ion: 43 Resp: 17356
Ion Ratio Lower Upper
43 100
74 23.0 19.2 28.8



#20
Methylene Chloride
Concen: 1.269 ug/l
RT: 5.265 min Scan# 563
Delta R.T. -0.012 min
Lab File: VN084611.D
Acq: 31 Oct 2024 09:22

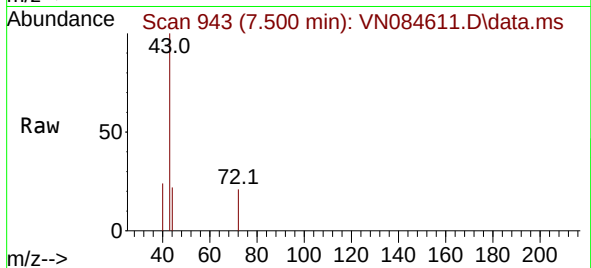
Tgt Ion: 84 Resp: 2636
Ion Ratio Lower Upper
84 100
49 110.7 107.2 160.8
51 19.3 31.8 47.8#
86 61.1 52.9 79.3



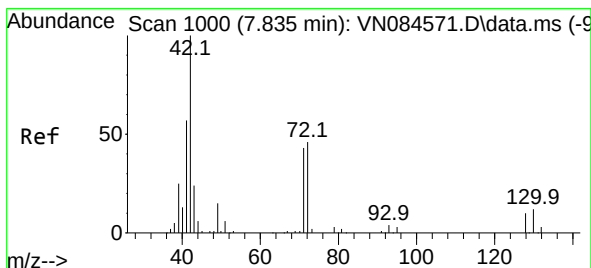
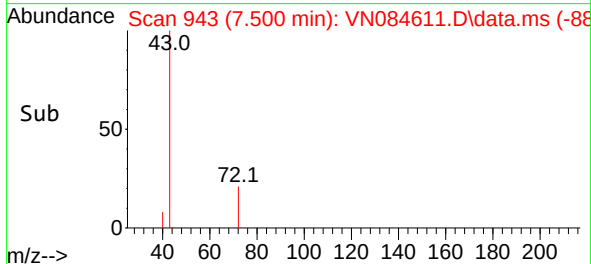
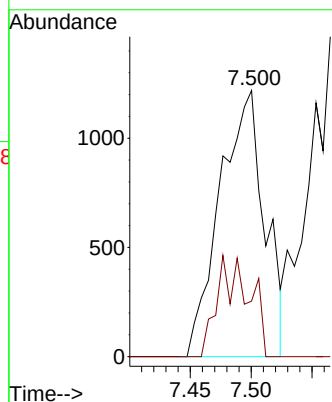


#25
2-Butanone
Concen: 2.820 ug/l
RT: 7.500 min Scan# 94
Delta R.T. 0.018 min
Lab File: VN084611.D
Acq: 31 Oct 2024 09:22

Instrument :
MSVOA_N
ClientSampleId :

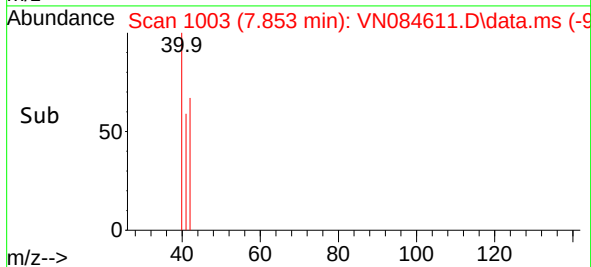
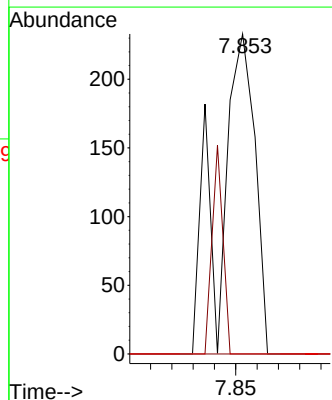
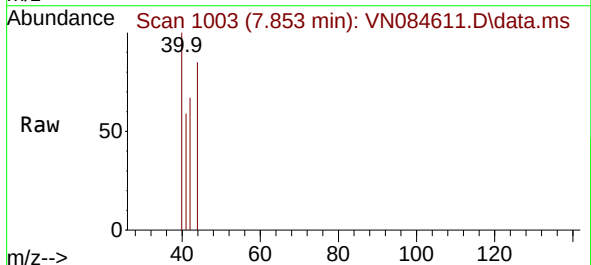


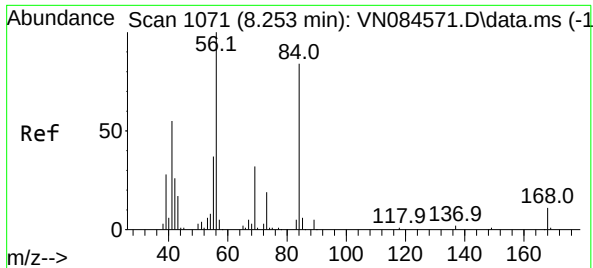
Tgt Ion: 43 Resp: 3106
Ion Ratio Lower Upper
43 100
72 20.8 21.4 32.2#



#29
Tetrahydrofuran
Concen: 0.367 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.018 min
Lab File: VN084611.D
Acq: 31 Oct 2024 09:22

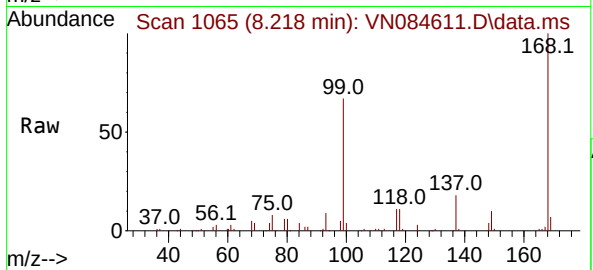
Tgt Ion: 42 Resp: 268
Ion Ratio Lower Upper
42 100
72 20.1 34.6 51.8#
71 0.0 32.2 48.4#



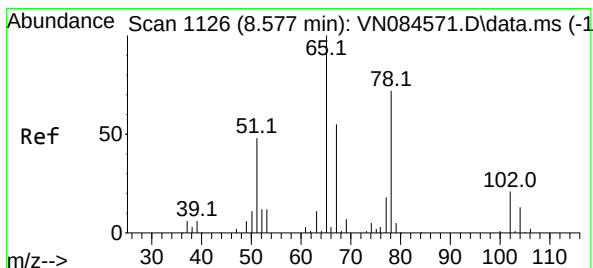
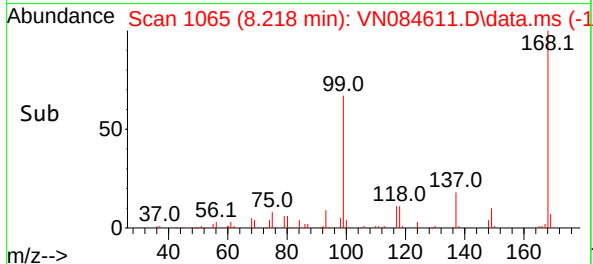
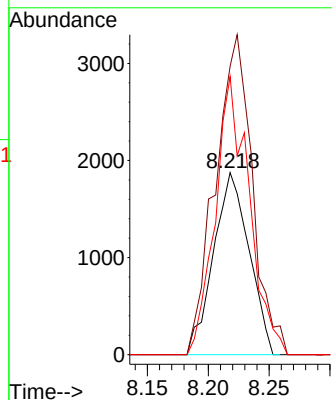


#31
Cyclohexane
Concen: 1.169 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN084611.D
Acq: 31 Oct 2024 09:22

Instrument :
MSVOA_N
ClientSampleId :

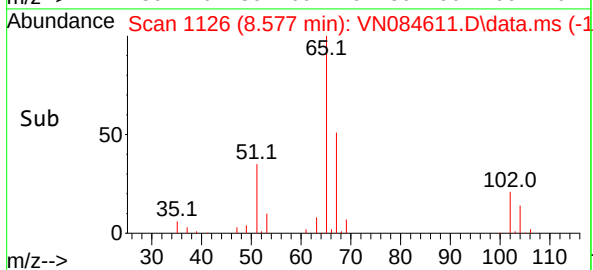
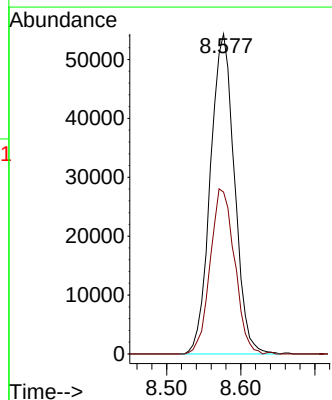
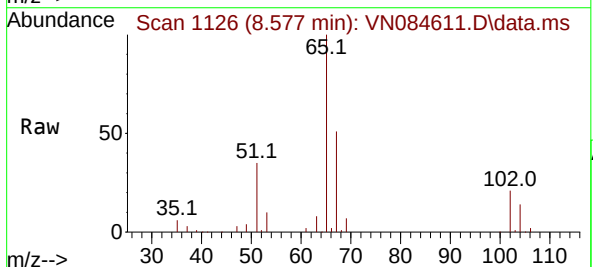


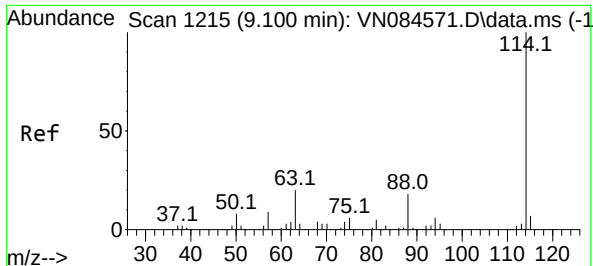
Tgt Ion: 56 Resp: 3811
Ion Ratio Lower Upper
56 100
69 158.4 23.8 35.6#
84 152.7 68.8 103.2#



#33
1,2-Dichloroethane-d4
Concen: 51.886 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084611.D
Acq: 31 Oct 2024 09:22

Tgt Ion: 65 Resp: 122513
Ion Ratio Lower Upper
65 100
67 52.4 0.0 102.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN084611.D

Acq: 31 Oct 2024 09:22

Instrument :

MSVOA_N

ClientSampleId :

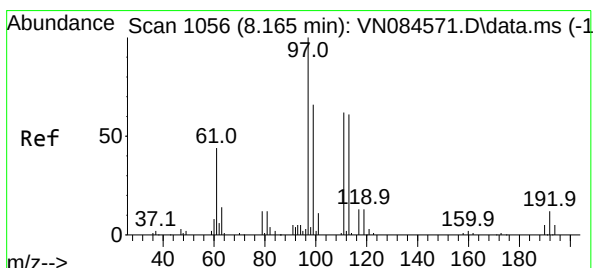
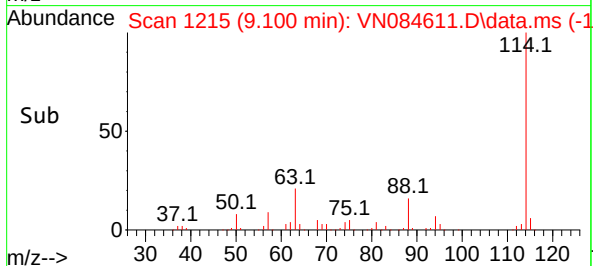
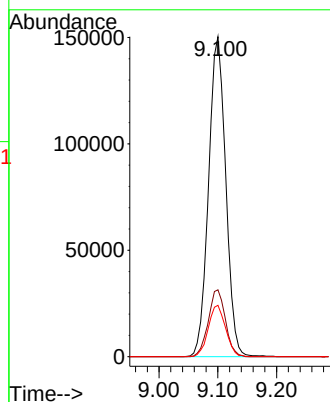
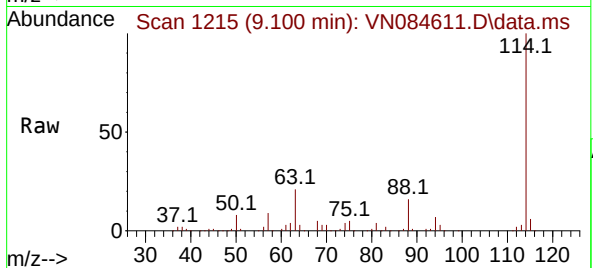
Tgt Ion:114 Resp: 305291

Ion Ratio Lower Upper

114 100

63 20.9 0.0 43.8

88 16.0 0.0 31.6



#35

Dibromofluoromethane

Concen: 47.620 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN084611.D

Acq: 31 Oct 2024 09:22

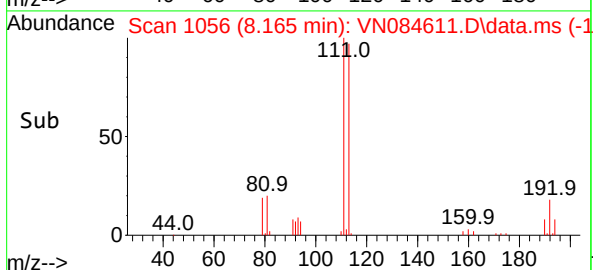
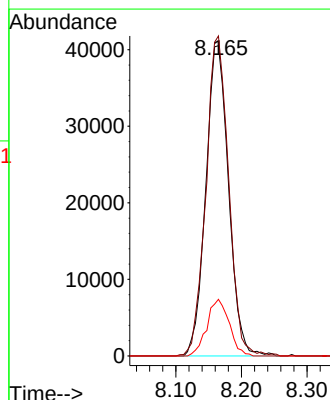
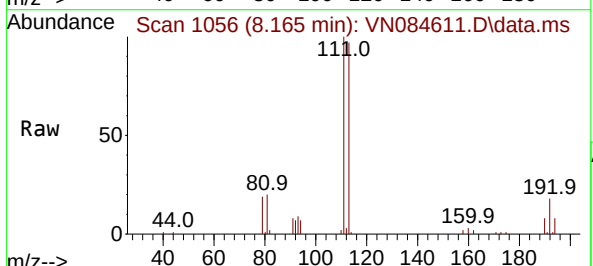
Tgt Ion:113 Resp: 98404

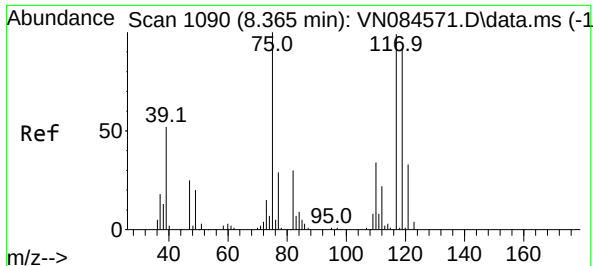
Ion Ratio Lower Upper

113 100

111 102.3 83.3 124.9

192 17.8 13.5 20.3





#36

1,1-Dichloropropene

Concen: 4.882 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN084611.D

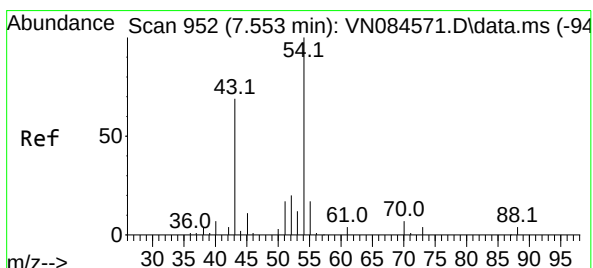
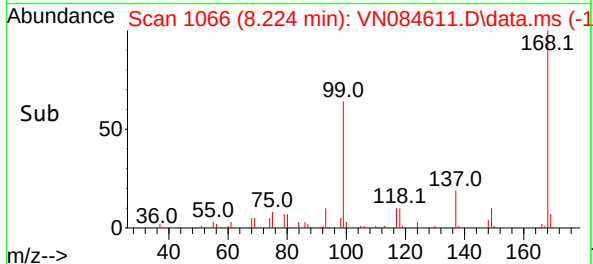
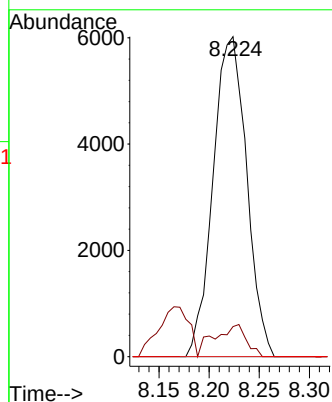
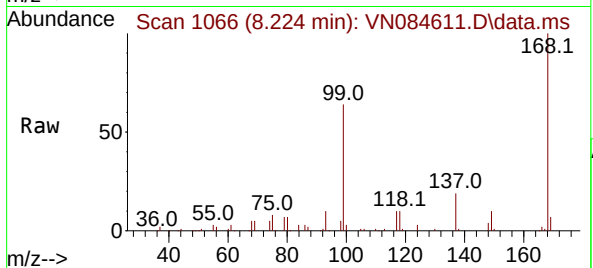
Acq: 31 Oct 2024 09:22

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	75	Resp:	13990
Ion	Ratio	Lower	Upper
75	100		
110	9.5	16.9	50.7#
77	0.0	24.7	37.1#



#37

Ethyl Acetate

Concen: 1.160 ug/l

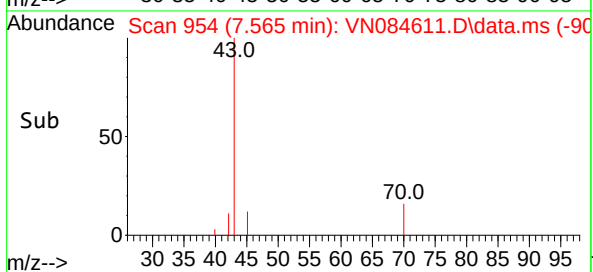
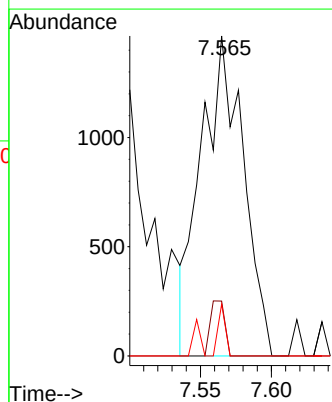
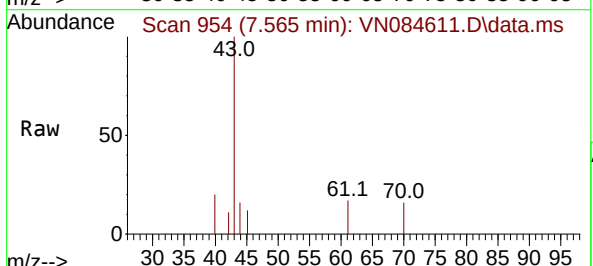
RT: 7.565 min Scan# 954

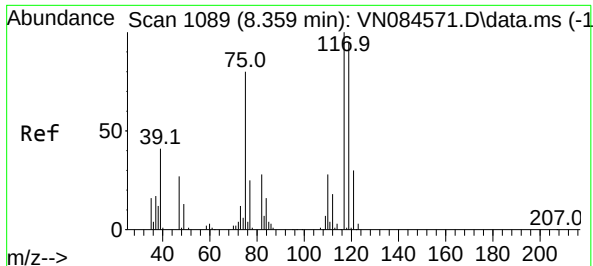
Delta R.T. 0.006 min

Lab File: VN084611.D

Acq: 31 Oct 2024 09:22

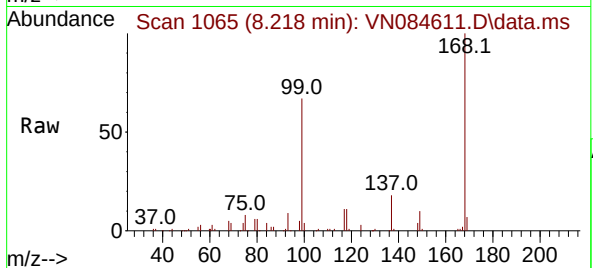
Tgt Ion:	43	Resp:	3017
Ion	Ratio	Lower	Upper
43	100		
61	5.9	10.7	16.1#
70	2.8	8.8	13.2#



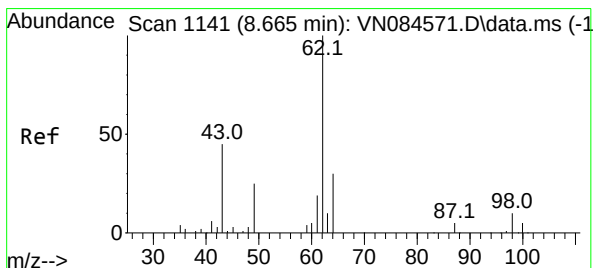
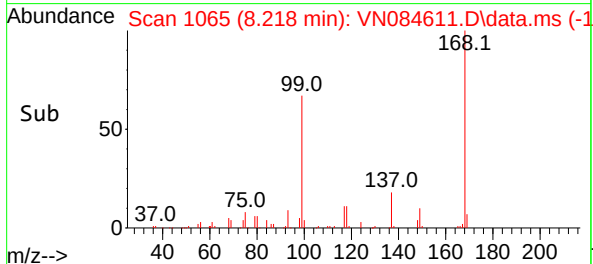
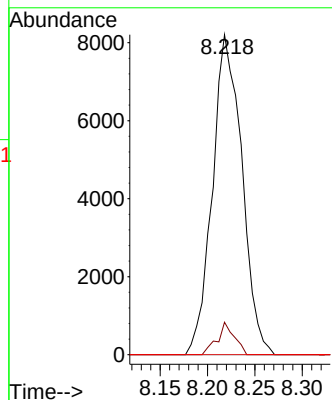


#38
Carbon Tetrachloride
Concen: 5.539 ug/l
RT: 8.218 min Scan# 1105
Delta R.T. -0.141 min
Lab File: VN084611.D
Acq: 31 Oct 2024 09:22

Instrument :
MSVOA_N
ClientSampleId :

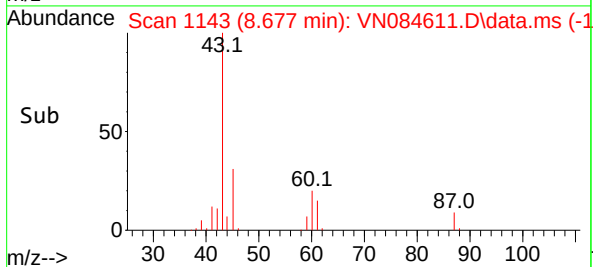
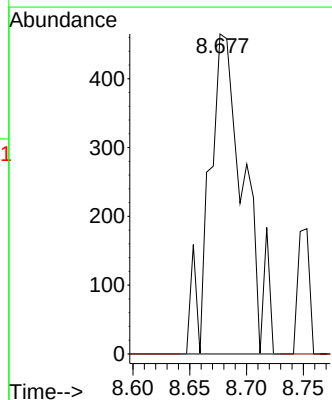
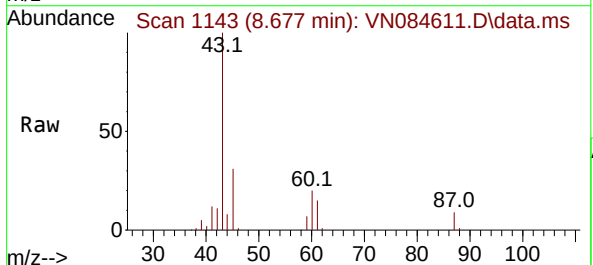


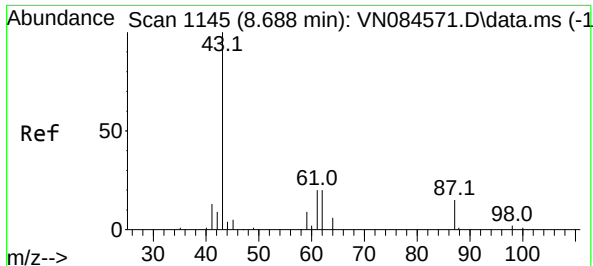
Tgt Ion:117 Resp: 17743
Ion Ratio Lower Upper
117 100
119 10.1 78.7 118.1#
121 0.0 24.4 36.6#



#42
1,2-Dichloroethane
Concen: 0.339 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VN084611.D
Acq: 31 Oct 2024 09:22

Tgt Ion: 62 Resp: 1010
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.2

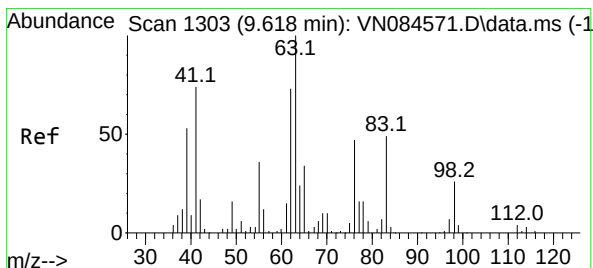
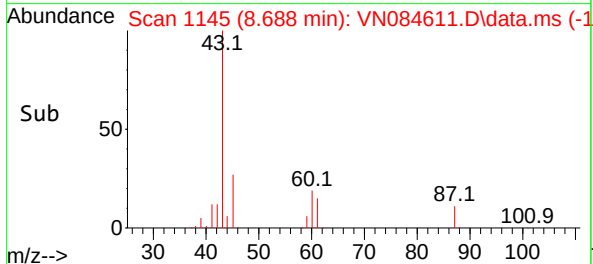
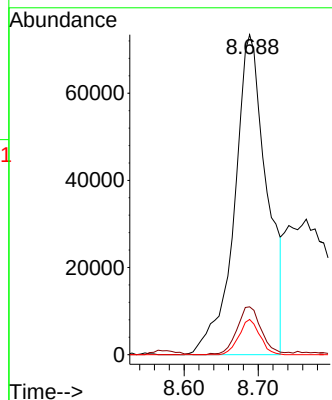
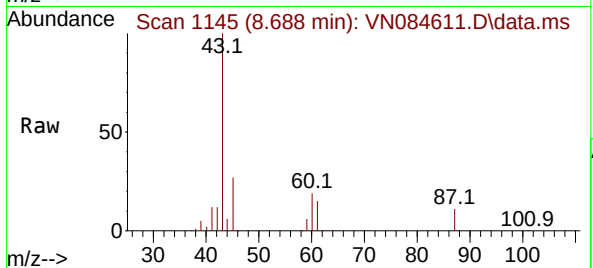




#43
Isopropyl Acetate
Concen: 46.198 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN084611.D
Acq: 31 Oct 2024 09:22

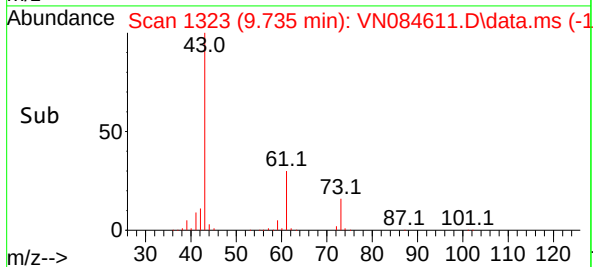
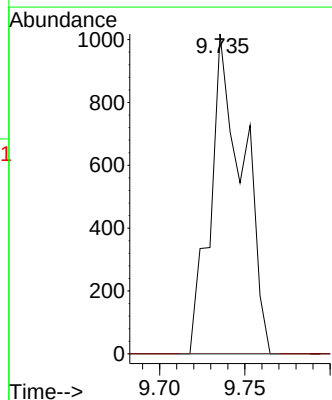
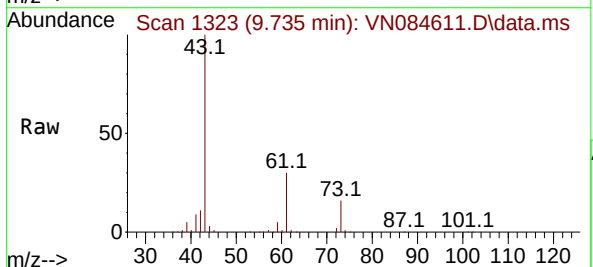
Instrument :
MSVOA_N
ClientSampleId :

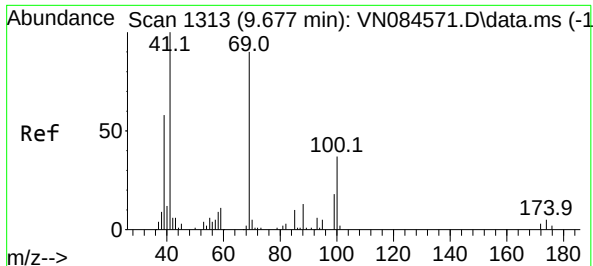
Tgt Ion: 43 Resp: 222274
Ion Ratio Lower Upper
43 100
61 11.3 20.4 30.6#
87 7.1 10.3 15.5#



#45
1,2-Dichloropropane
Concen: 0.630 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.117 min
Lab File: VN084611.D
Acq: 31 Oct 2024 09:22

Tgt Ion: 63 Resp: 1360
Ion Ratio Lower Upper
63 100
65 0.0 24.6 37.0#





#48

Methyl methacrylate

Concen: 1.648 ug/l

RT: 9.671 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN084611.D

Acq: 31 Oct 2024 09:22

Instrument :

MSVOA_N

ClientSampleId :

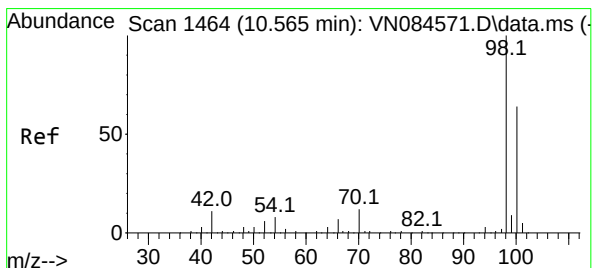
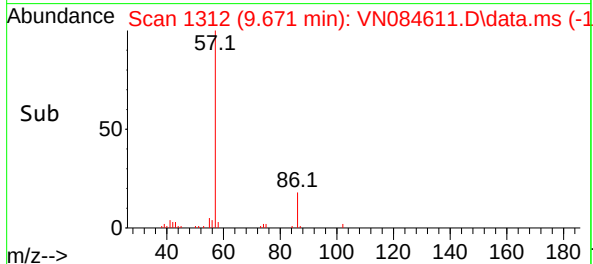
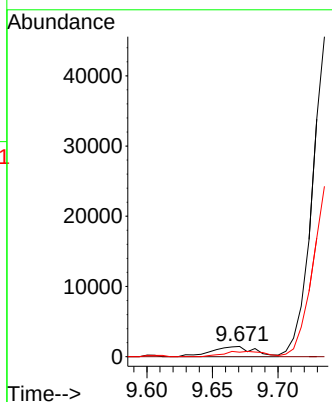
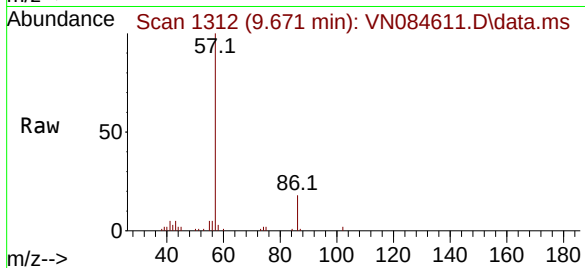
Tgt Ion: 41 Resp: 3335

Ion Ratio Lower Upper

41 100

69 0.0 67.1 100.7#

39 49.2 45.8 68.6



#50

Toluene-d8

Concen: 48.796 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084611.D

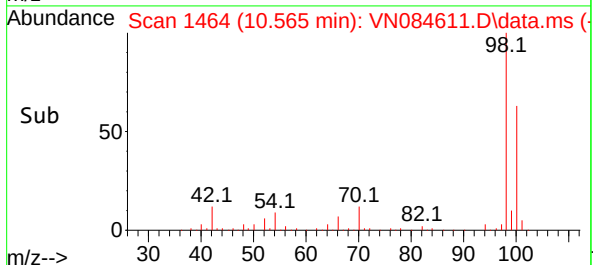
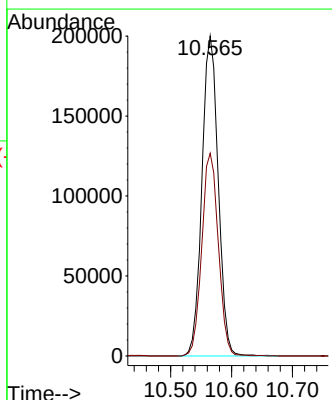
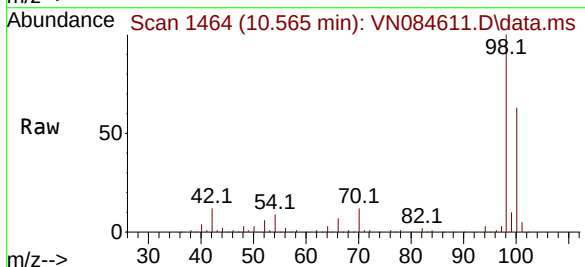
Acq: 31 Oct 2024 09:22

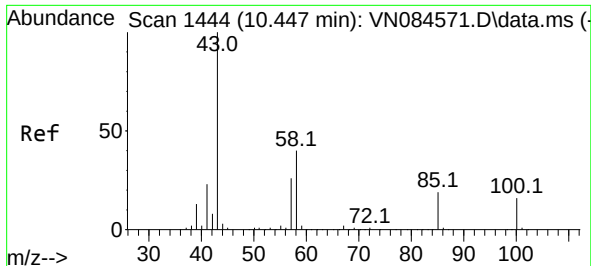
Tgt Ion: 98 Resp: 371443

Ion Ratio Lower Upper

98 100

100 64.4 52.7 79.1





#51

4-Methyl-2-Pentanone

Concen: 3.756 ug/l

RT: 10.453 min Scan# 1445

Delta R.T. 0.012 min

Lab File: VN084611.D

Acq: 31 Oct 2024 09:22

Instrument :

MSVOA_N

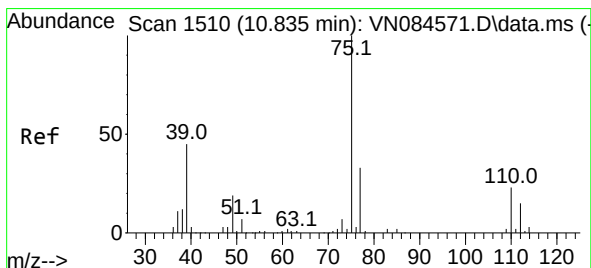
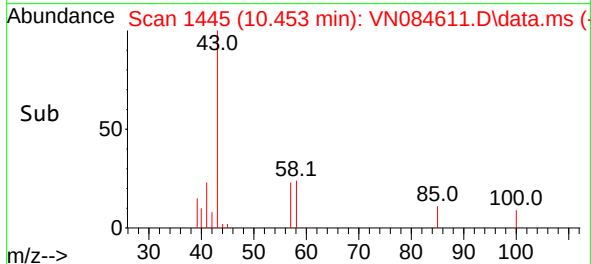
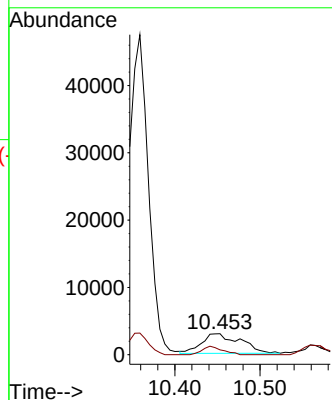
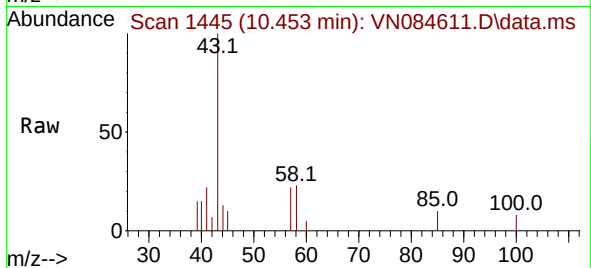
ClientSampleId :

Tgt Ion: 43 Resp: 9310

Ion Ratio Lower Upper

43 100

58 22.2 31.6 47.4#



#53

t-1,3-Dichloropropene

Concen: 0.253 ug/l

RT: 10.724 min Scan# 1491

Delta R.T. -0.112 min

Lab File: VN084611.D

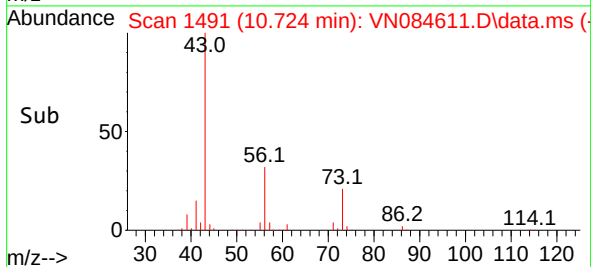
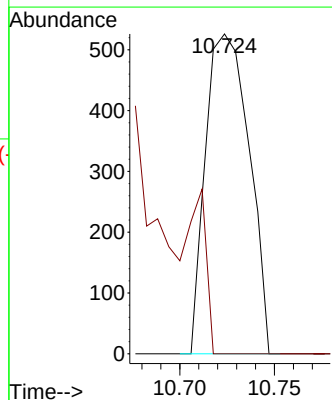
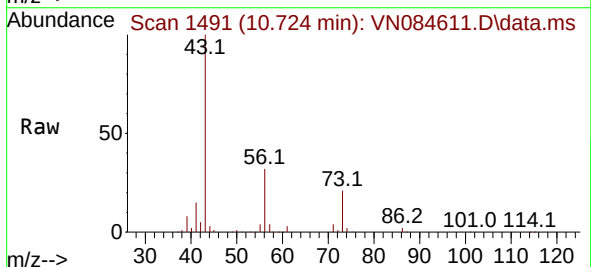
Acq: 31 Oct 2024 09:22

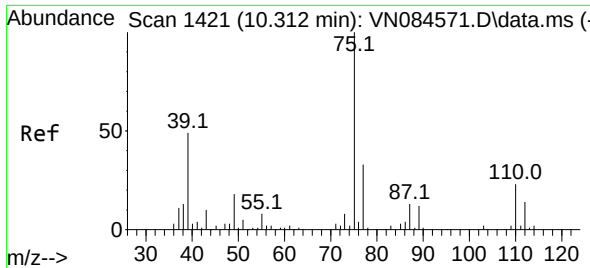
Tgt Ion: 75 Resp: 842

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

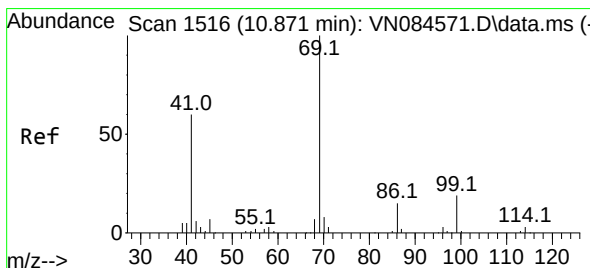
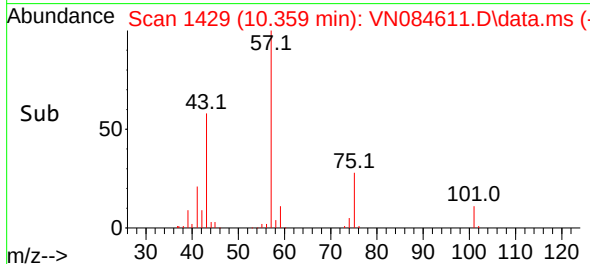
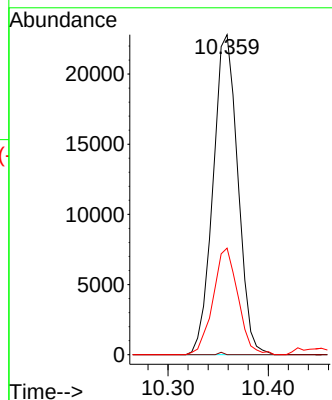
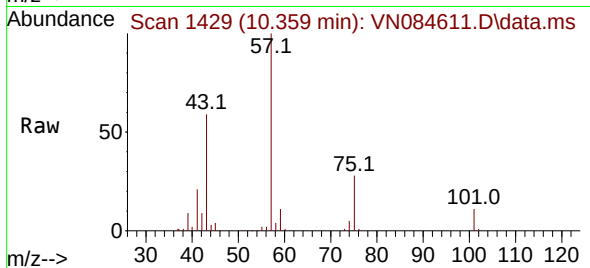




#54
 cis-1,3-Dichloropropene
 Concen: 11.109 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN084611.D
 Acq: 31 Oct 2024 09:22

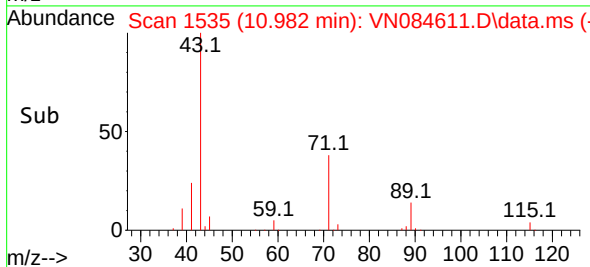
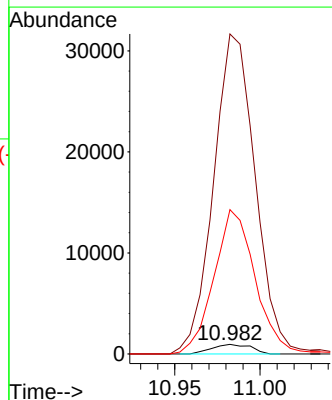
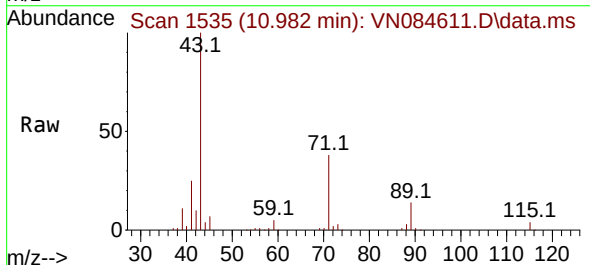
Instrument :
 MSVOA_N
 ClientSampleId :

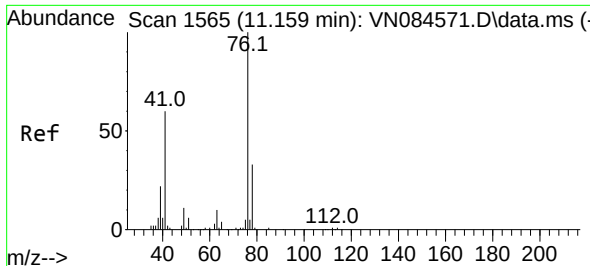
Tgt Ion: 75 Resp: 39083
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.2 36.2#
 39 33.3 38.7 58.1#



#56
 Ethyl methacrylate
 Concen: 0.514 ug/l
 RT: 10.982 min Scan# 1535
 Delta R.T. 0.112 min
 Lab File: VN084611.D
 Acq: 31 Oct 2024 09:22

Tgt Ion: 69 Resp: 1508
 Ion Ratio Lower Upper
 69 100
 41 3593.8 53.3 79.9#
 39 1598.9 28.8 43.2#





#57

1,3-Dichloropropane

Concen: 1.574 ug/l

RT: 11.200 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN084611.D

Acq: 31 Oct 2024 09:22

Instrument :

MSVOA_N

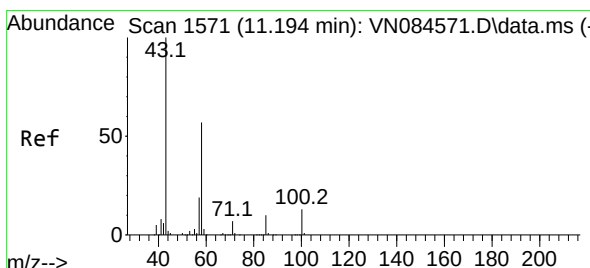
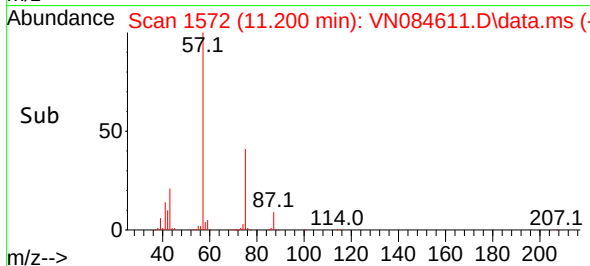
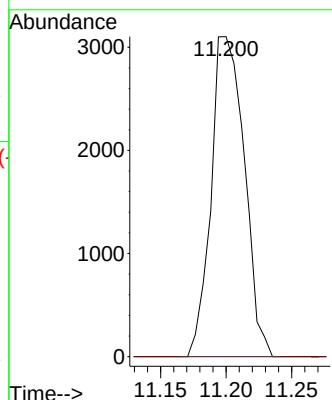
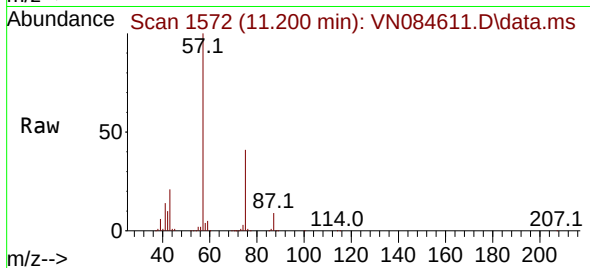
ClientSampleId :

Tgt Ion: 76 Resp: 5476

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 54.843 ug/l

RT: 11.171 min Scan# 1567

Delta R.T. -0.023 min

Lab File: VN084611.D

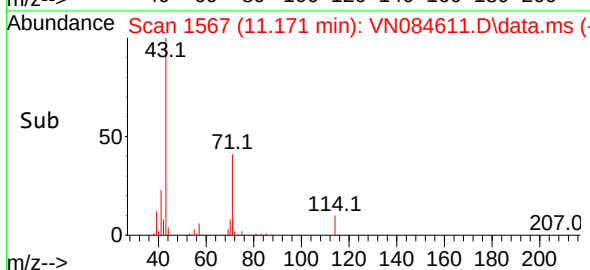
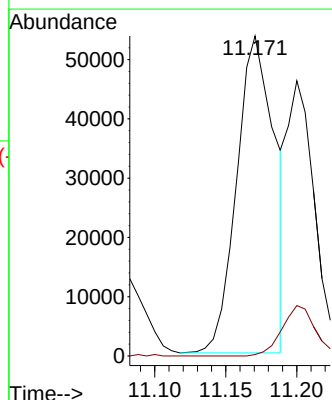
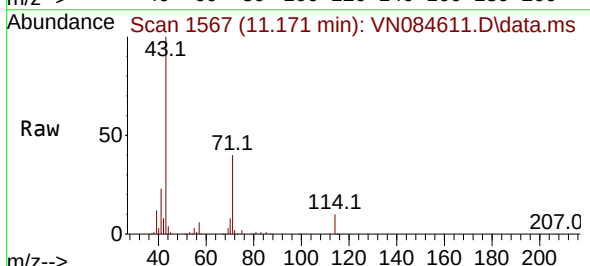
Acq: 31 Oct 2024 09:22

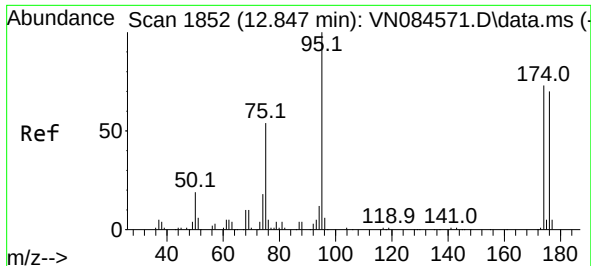
Tgt Ion: 43 Resp: 98951

Ion Ratio Lower Upper

43 100

58 0.0 27.3 81.8#





#62

4-Bromofluorobenzene

Concen: 44.919 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.000 min

Lab File: VN084611.D

Acq: 31 Oct 2024 09:22

Instrument :

MSVOA_N

ClientSampleId :

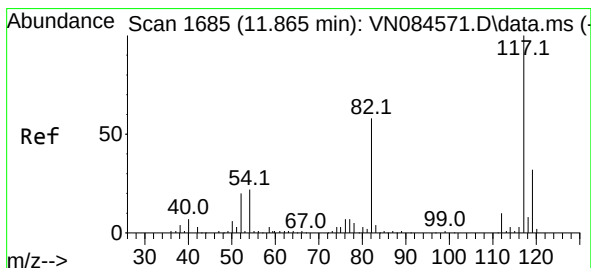
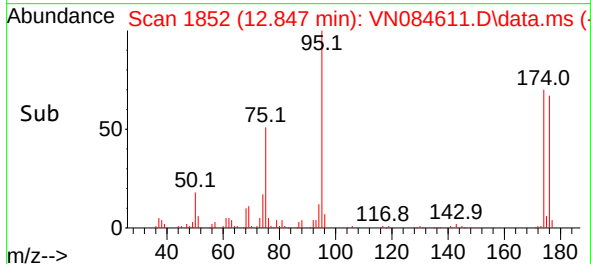
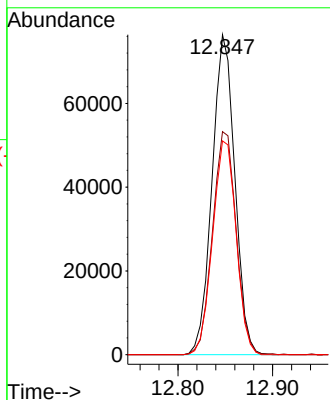
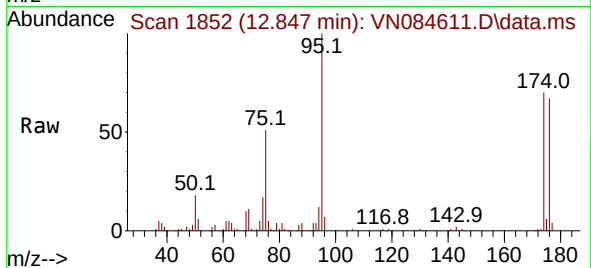
Tgt Ion: 95 Resp: 127790

Ion Ratio Lower Upper

95 100

174 72.5 0.0 145.2

176 69.1 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: VN084611.D

Acq: 31 Oct 2024 09:22

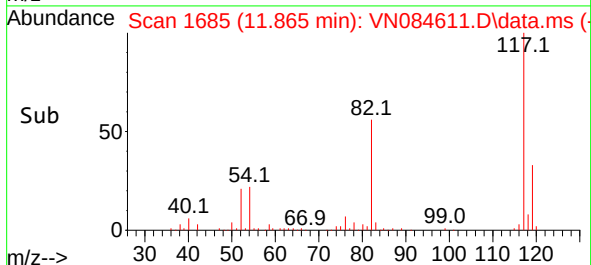
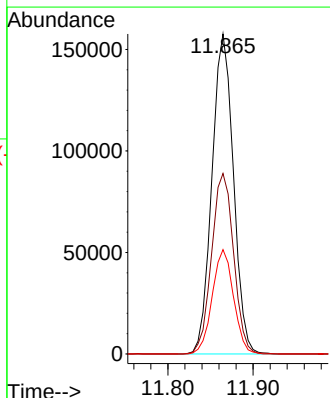
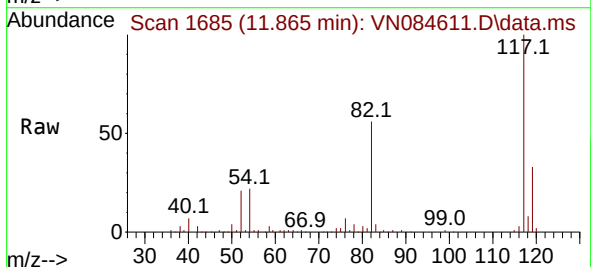
Tgt Ion: 117 Resp: 275900

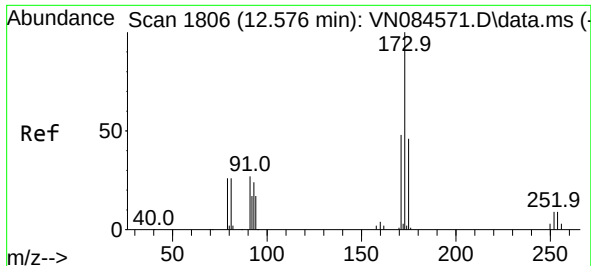
Ion Ratio Lower Upper

117 100

82 56.4 47.2 70.8

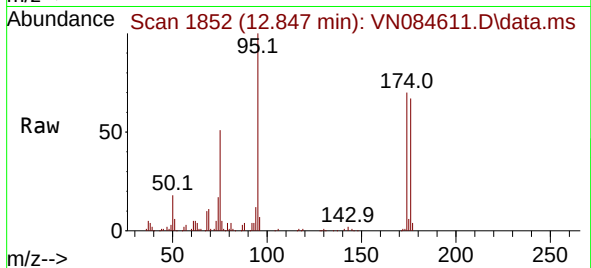
119 32.6 25.4 38.0



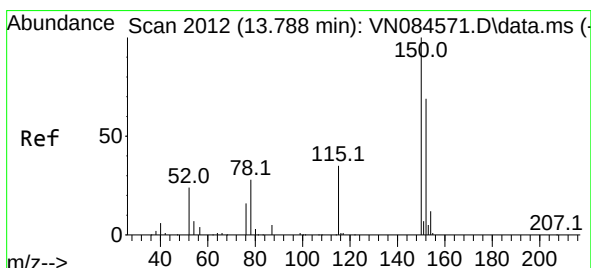
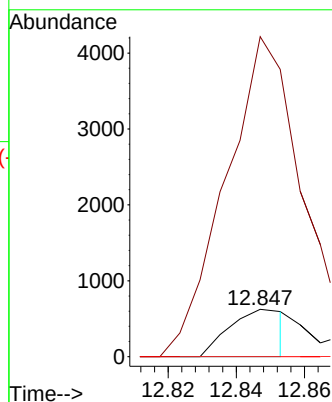
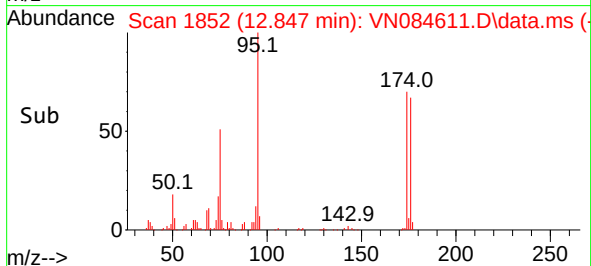


#71
Bromoform
Concen: 0.438 ug/l
RT: 12.847 min Scan# 1806
Delta R.T. 0.271 min
Lab File: VN084611.D
Acq: 31 Oct 2024 09:22

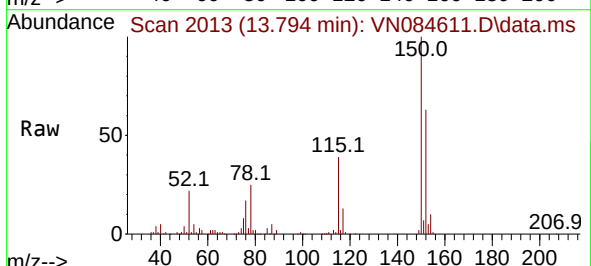
Instrument :
MSVOA_N
ClientSampleId :



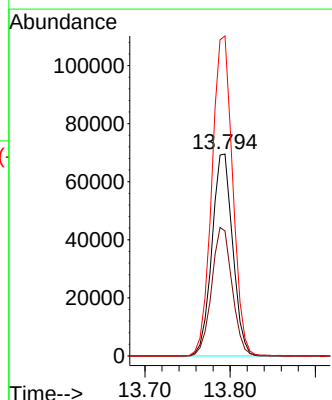
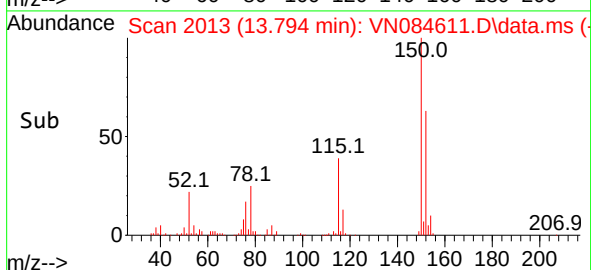
Tgt Ion:173 Resp: 708
Ion Ratio Lower Upper
173 100
175 715.3 23.5 70.6#
254 0.0 0.0 0.0

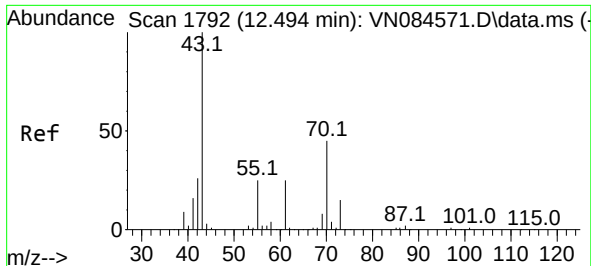


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN084611.D
Acq: 31 Oct 2024 09:22



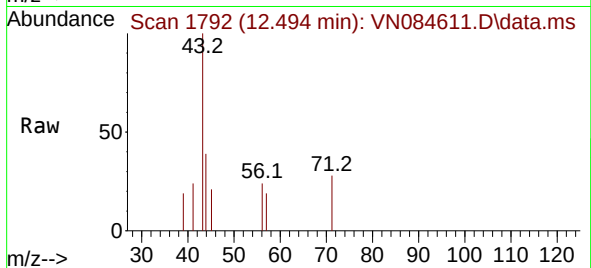
Tgt Ion:152 Resp: 118079
Ion Ratio Lower Upper
152 100
115 62.6 31.3 93.9
150 158.4 0.0 349.8



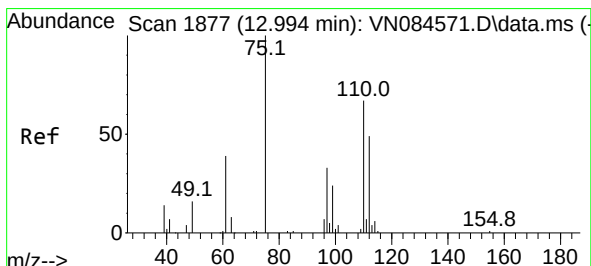
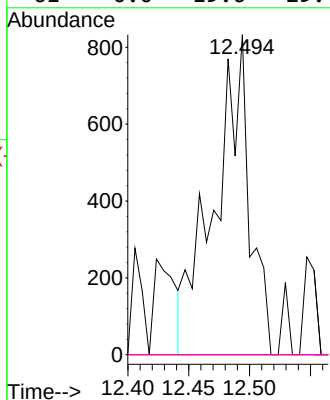
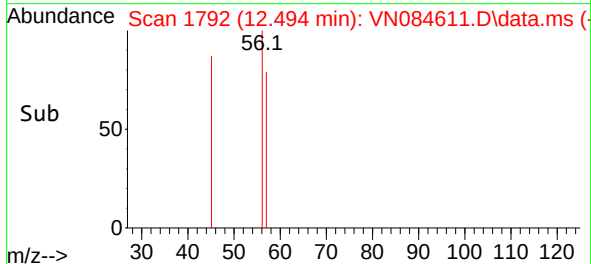


#74
N-amy1 acetate
Concen: 0.472 ug/l
RT: 12.494 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN084611.D
Acq: 31 Oct 2024 09:22

Instrument :
MSVOA_N
ClientSampleId :

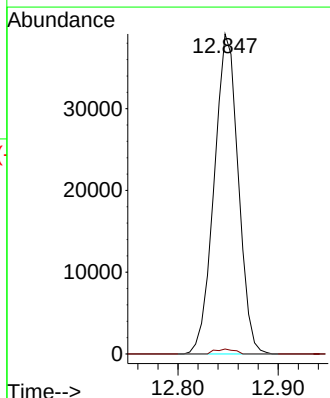
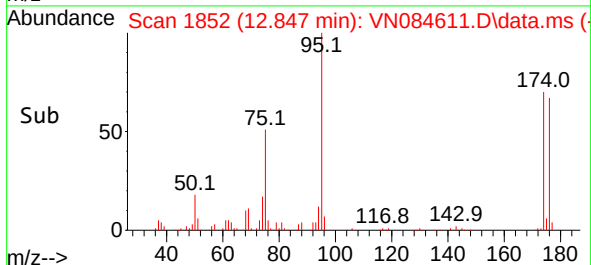
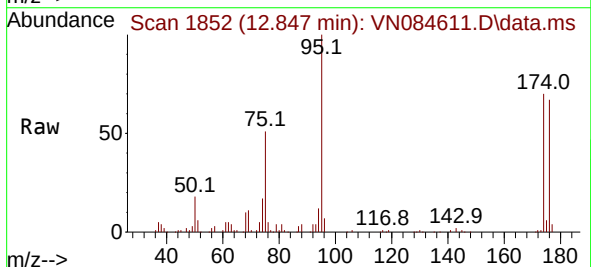


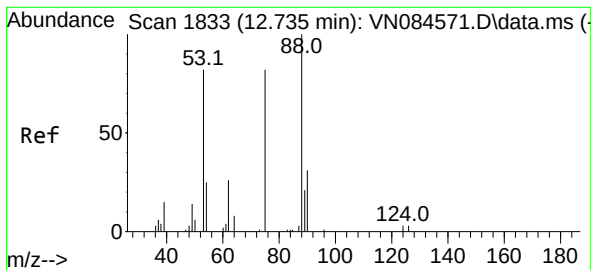
Tgt Ion:	43	Resp:	1662
Ion Ratio	100	Lower	Upper
70	0.0	34.4	51.6#
55	0.0	19.6	29.4#
61	0.0	19.6	29.4#



#76
1,2,3-Trichloropropane
Concen: 27.688 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN084611.D
Acq: 31 Oct 2024 09:22

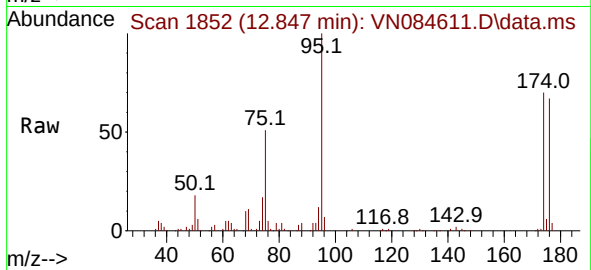
Tgt Ion:	75	Resp:	65353
Ion Ratio	100	Lower	Upper
77	1.3	96.9	290.7#





#81
trans-1,4-Dichloro-2-butene
Concen: 65.687 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN084611.D
Acq: 31 Oct 2024 09:22

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 75 Resp: 65353
Ion Ratio Lower Upper
75 100
53 0.1 78.0 117.0#
89 0.0 35.5 53.3#

