

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084595.D
 Acq On : 31 Oct 2024 02:57
 Operator : JC\MD
 Sample : P4598-12
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 01 05:18:53 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

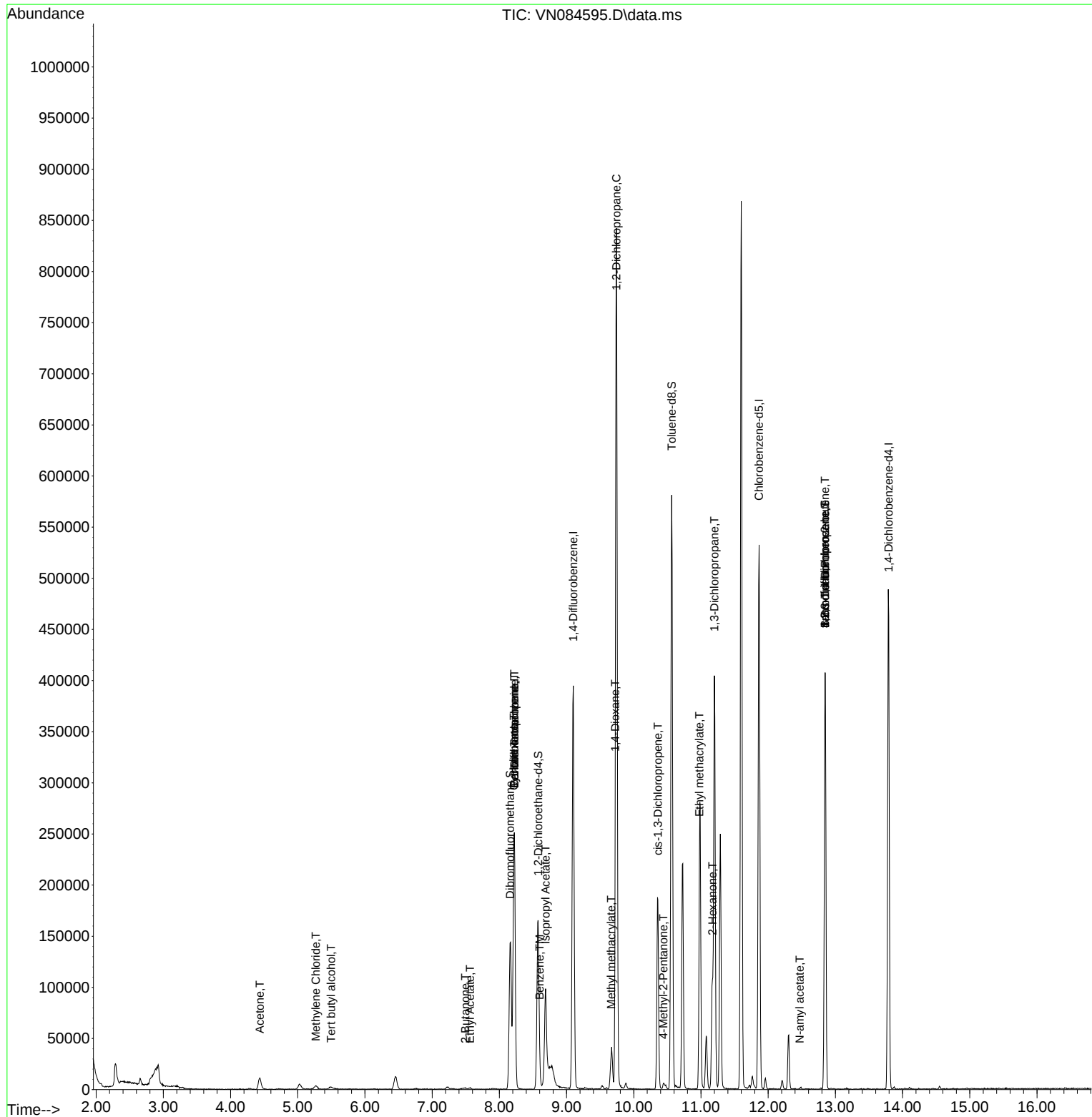
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

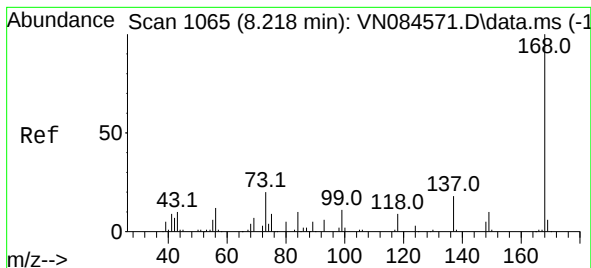
Internal Standards						
1) Pentafluorobenzene	8.224	168	182268	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	328463	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	299887	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	131219	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	134375	51.043	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.080%			
35) Dibromofluoromethane	8.159	113	105773	47.575	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.140%			
50) Toluene-d8	10.565	98	396807	48.451	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.900%			
62) 4-Bromofluorobenzene	12.847	95	145893	47.664	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.320%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1422	Below Cal	#	75
6) Chloroethane	3.124	64	615	Below Cal	#	45
11) Tert butyl alcohol	5.494	59	1710	4.921	ug/l #	73
16) Acetone	4.436	43	22114	26.530	ug/l	97
18) Methyl Acetate	5.030	43	10440	Below Cal		100
20) Methylene Chloride	5.271	84	2711	1.171	ug/l #	93
25) 2-Butanone	7.494	43	2590	2.109	ug/l #	87
31) Cyclohexane	8.218	56	4180	1.150	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	15787	5.120	ug/l #	51
37) Ethyl Acetate	7.565	43	2401	0.858	ug/l #	75
38) Carbon Tetrachloride	8.224	117	19961	5.792	ug/l #	13
40) Benzene	8.600	78	4681	0.473	ug/l #	87
43) Isopropyl Acetate	8.688	43	121824	23.051	ug/l #	85
45) 1,2-Dichloropropane	9.741	63	871	0.375	ug/l #	44
48) Methyl methacrylate	9.665	41	2699	1.240	ug/l #	45
49) 1,4-Dioxane	9.724	88	66	1.711	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	3586	1.345	ug/l	95
54) cis-1,3-Dichloropropene	10.359	75	33663	8.893	ug/l #	64
56) Ethyl methacrylate	10.976	69	1543	0.489	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	4489	1.199	ug/l #	42
59) 2-Hexanone	11.170	43	87513	45.081	ug/l #	24
71) Bromoform	12.847	173	846	0.482	ug/l #	1
74) N-amyl acetate	12.470	43	1160	0.296	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	75041	28.609	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	75041	67.871	ug/l #	11
88) 1,4-Dichlorobenzene	13.817	146	79	Below Cal	#	24

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

Instrument :
MSVOA_N
ClientSampleId :

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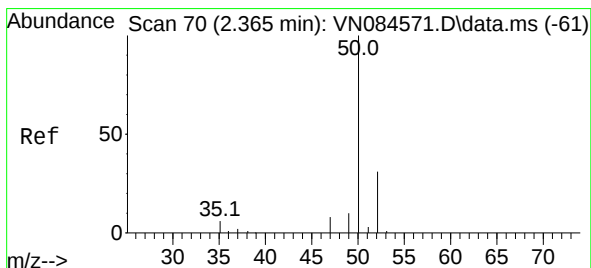
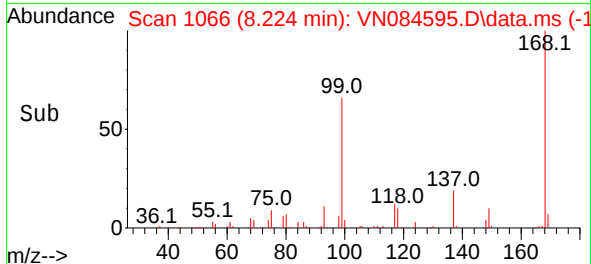
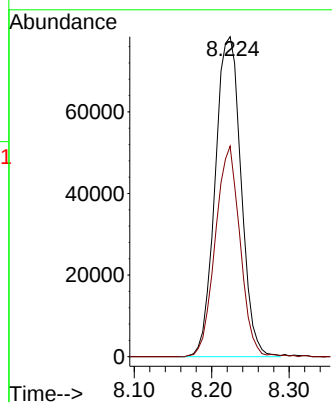
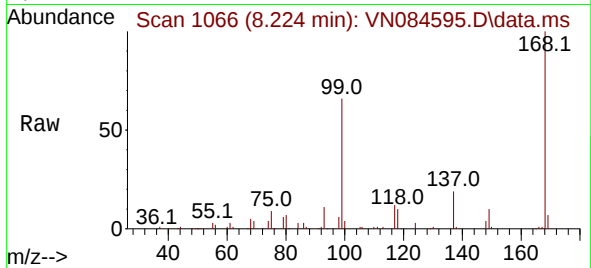




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN084595.D
Acq: 31 Oct 2024 02:57

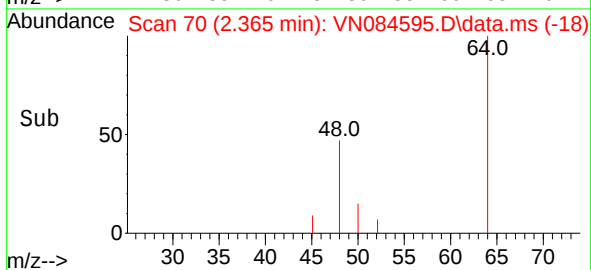
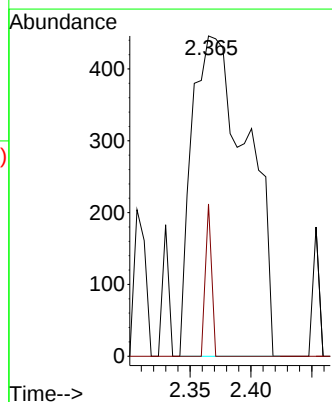
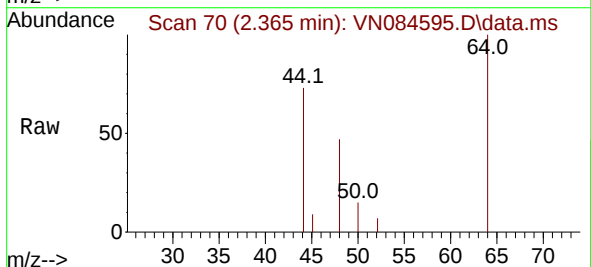
Instrument :
MSVOA_N
ClientSampleId :

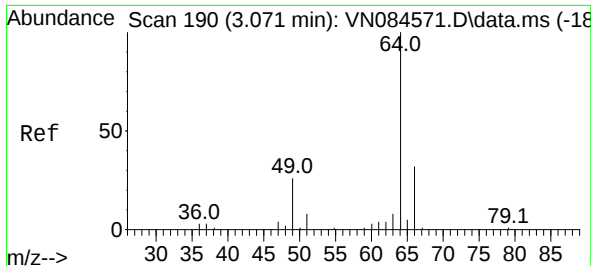
Tgt Ion:168 Resp: 182268
Ion Ratio Lower Upper
168 100
99 65.8 54.2 81.2



#3
Chloromethane
Concen: Below Cal
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN084595.D
Acq: 31 Oct 2024 02:57

Tgt Ion: 50 Resp: 1422
Ion Ratio Lower Upper
50 100
52 47.5 26.8 40.2#

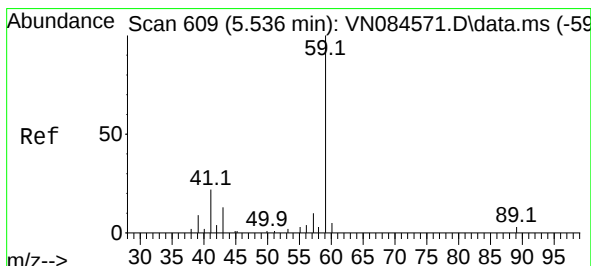
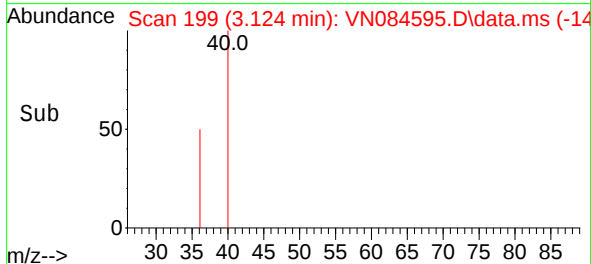
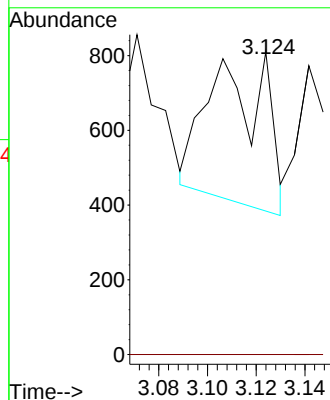
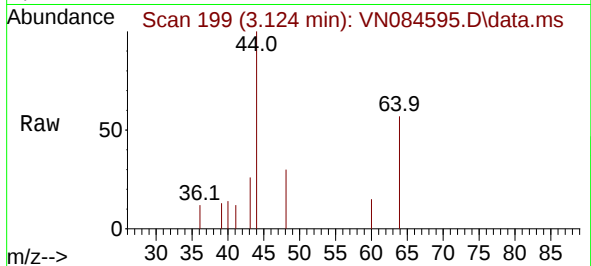




#6
Chloroethane
Concen: Below Cal
RT: 3.124 min Scan# 190
Delta R.T. 0.006 min
Lab File: VN084595.D
Acq: 31 Oct 2024 02:57

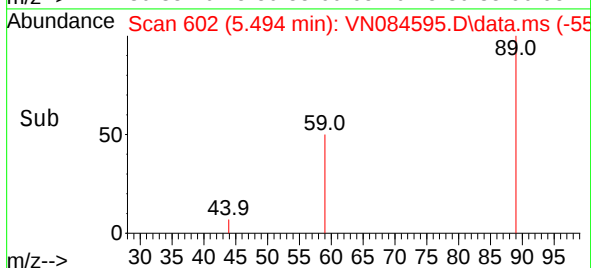
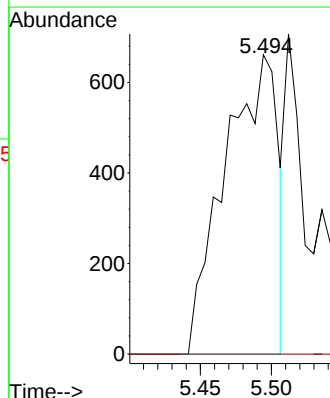
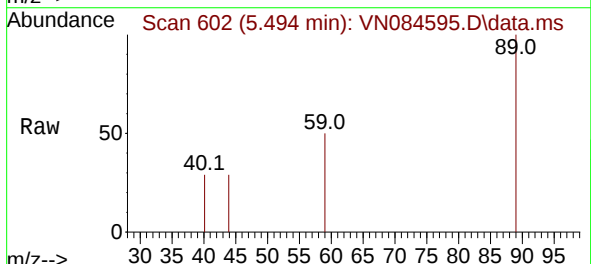
Instrument :
MSVOA_N
ClientSampleId :

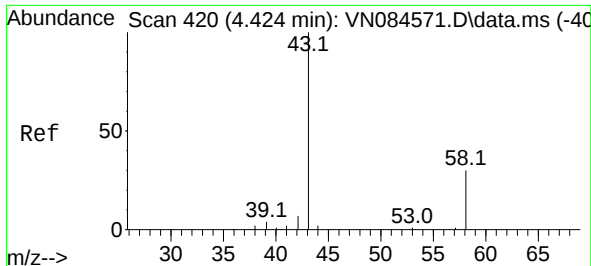
Tgt Ion: 64 Resp: 615
Ion Ratio Lower Upper
64 100
66 0.0 23.5 35.3#



#11
Tert butyl alcohol
Concen: 4.921 ug/l
RT: 5.494 min Scan# 602
Delta R.T. -0.029 min
Lab File: VN084595.D
Acq: 31 Oct 2024 02:57

Tgt Ion: 59 Resp: 1710
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#





#16

Acetone

Concen: 26.530 ug/l

RT: 4.436 min Scan# 41

Delta R.T. 0.012 min

Lab File: VN084595.D

Acq: 31 Oct 2024 02:57

Instrument :

MSVOA_N

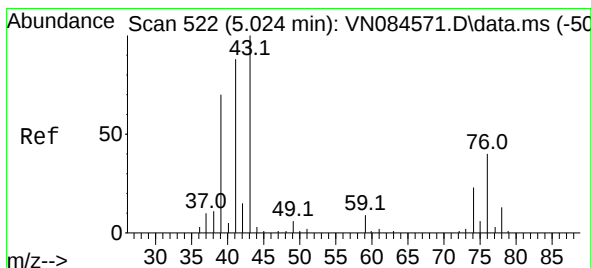
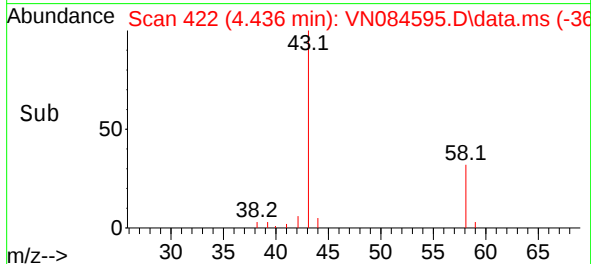
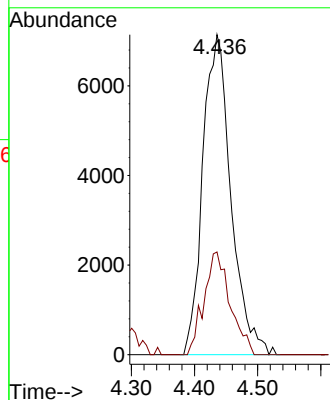
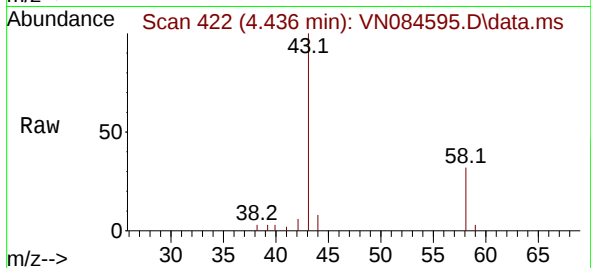
ClientSampleId :

Tgt Ion: 43 Resp: 22114

Ion Ratio Lower Upper

43 100

58 32.1 24.4 36.6



#18

Methyl Acetate

Concen: Below Cal

RT: 5.030 min Scan# 523

Delta R.T. 0.012 min

Lab File: VN084595.D

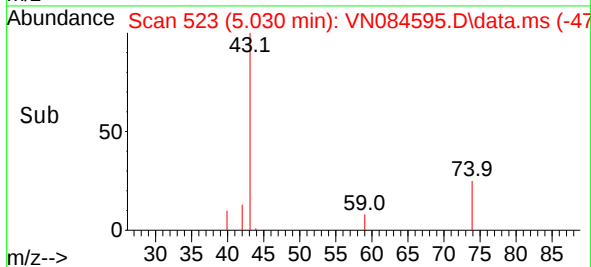
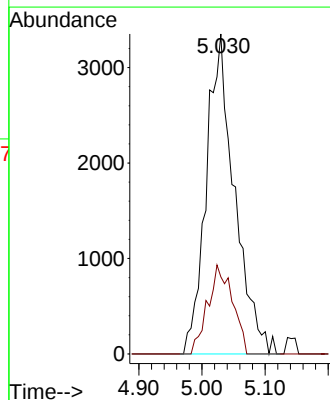
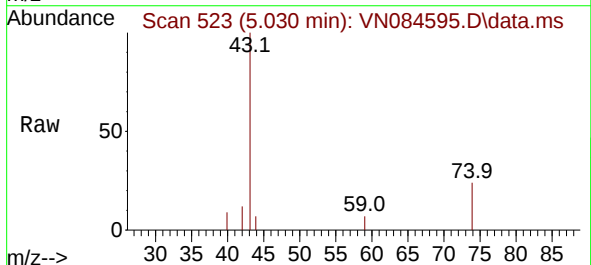
Acq: 31 Oct 2024 02:57

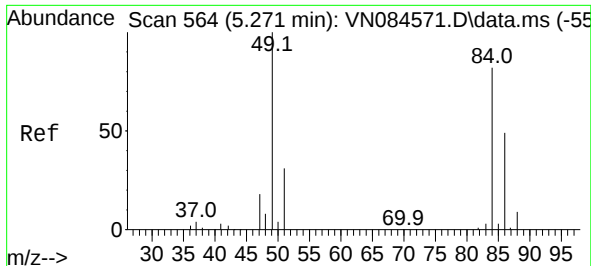
Tgt Ion: 43 Resp: 10440

Ion Ratio Lower Upper

43 100

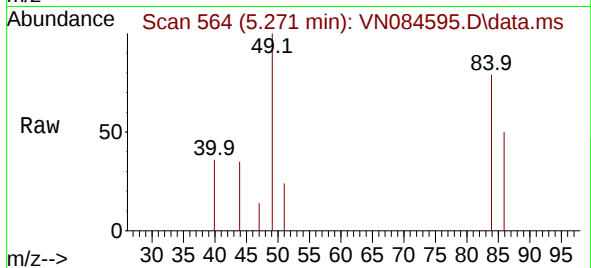
74 24.2 19.2 28.8



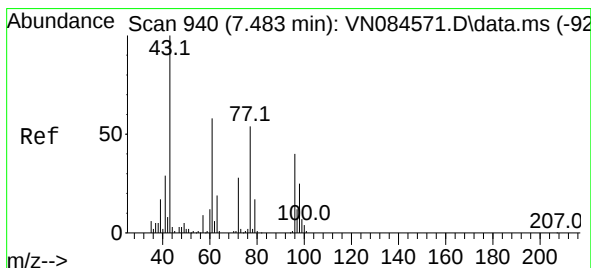
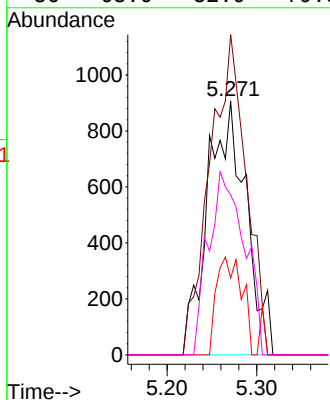
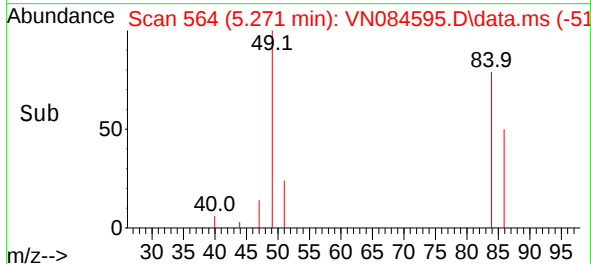


#20
Methylene Chloride
Concen: 1.171 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN084595.D
Acq: 31 Oct 2024 02:57

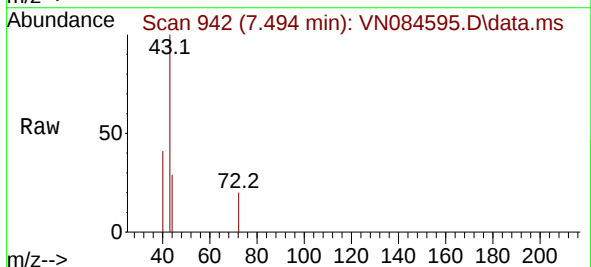
Instrument :
MSVOA_N
ClientSampleId :



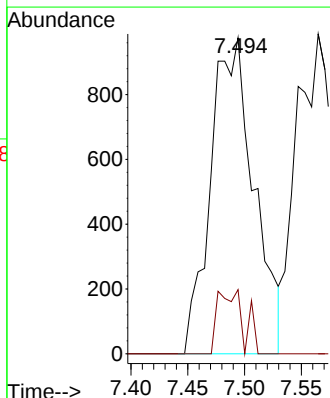
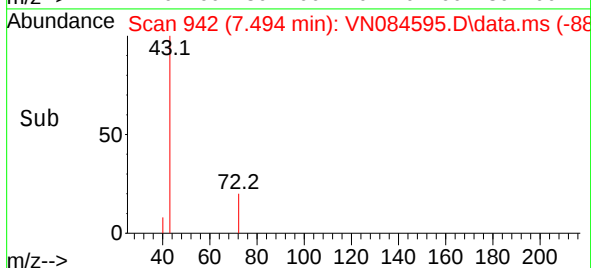
Tgt Ion:	84	Resp:	2711
Ion	Ratio	Lower	Upper
84	100		
49	126.1	107.2	160.8
51	30.2	31.8	47.8#
86	63.0	52.9	79.3

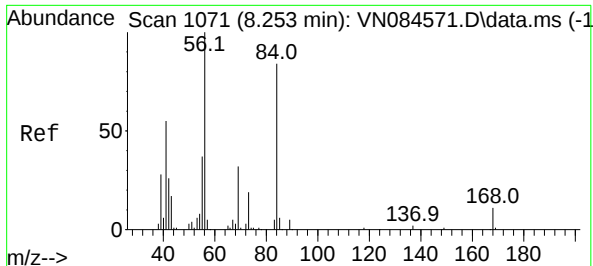


#25
2-Butanone
Concen: 2.109 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.012 min
Lab File: VN084595.D
Acq: 31 Oct 2024 02:57



Tgt Ion:	43	Resp:	2590
Ion	Ratio	Lower	Upper
43	100		
72	20.3	21.4	32.2#

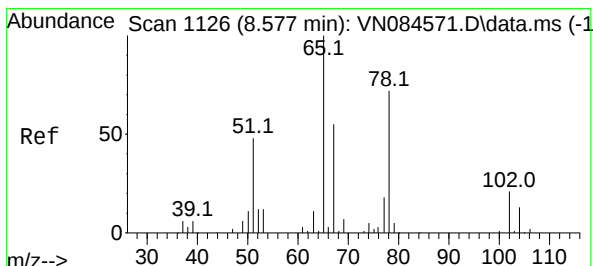
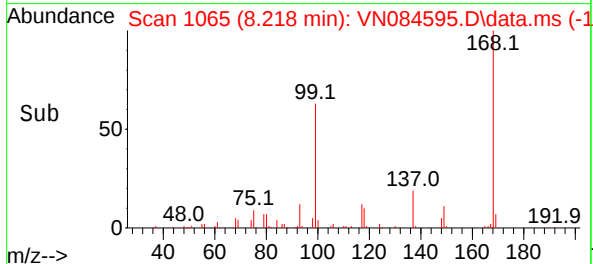
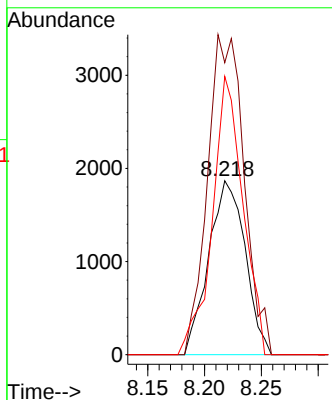
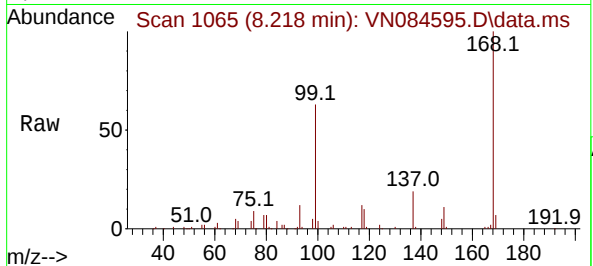




#31
Cyclohexane
Concen: 1.150 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN084595.D
Acq: 31 Oct 2024 02:57

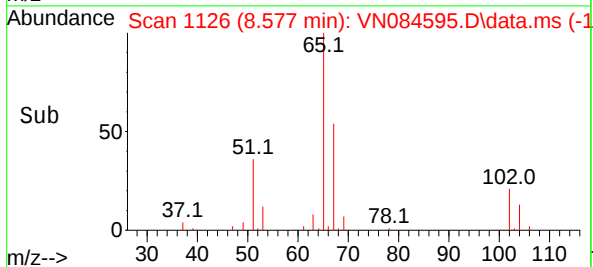
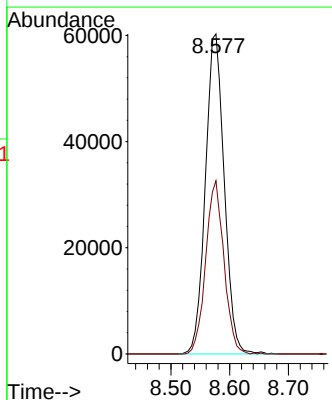
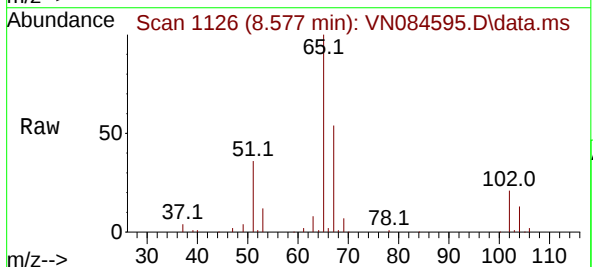
Instrument :
MSVOA_N
ClientSampleId :

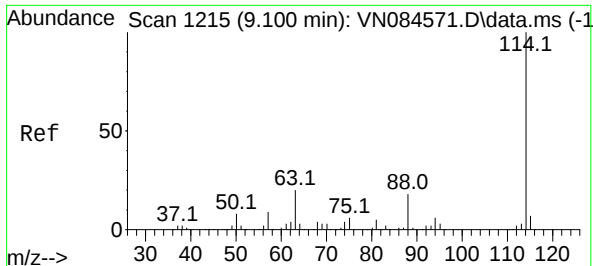
Tgt Ion: 56 Resp: 4180
Ion Ratio Lower Upper
56 100
69 167.8 23.8 35.6#
84 159.9 68.8 103.2#



#33
1,2-Dichloroethane-d4
Concen: 51.043 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084595.D
Acq: 31 Oct 2024 02:57

Tgt Ion: 65 Resp: 134375
Ion Ratio Lower Upper
65 100
67 52.3 0.0 102.0

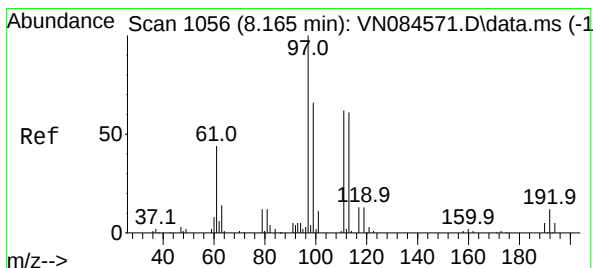
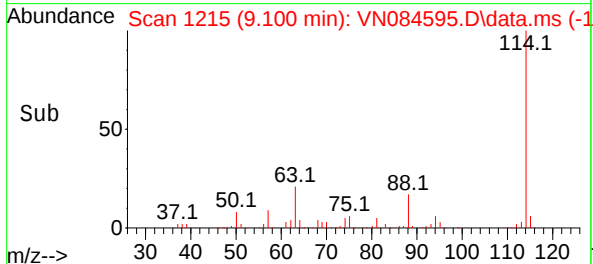
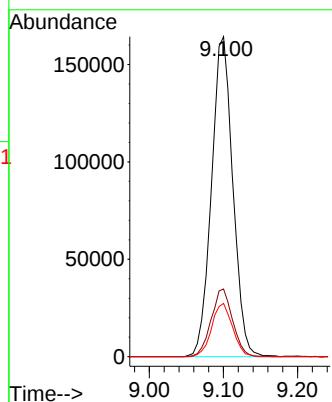
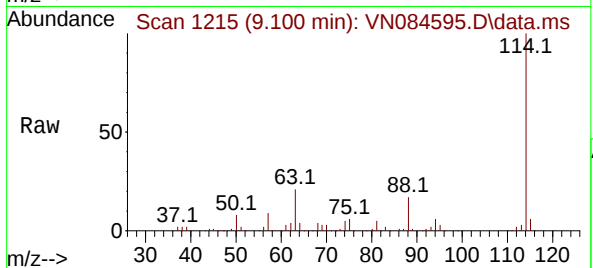




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN084595.D
Acq: 31 Oct 2024 02:57

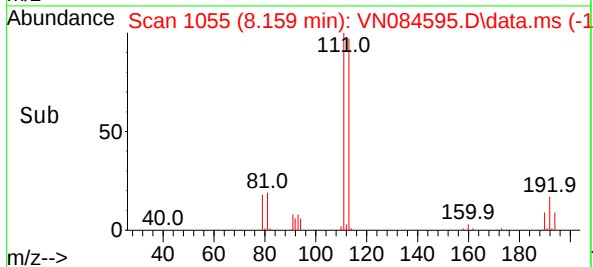
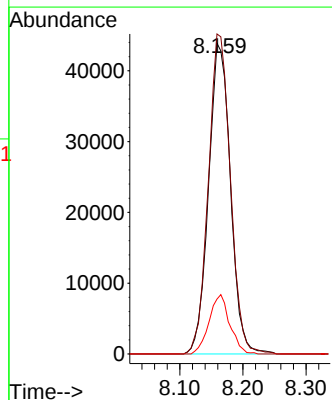
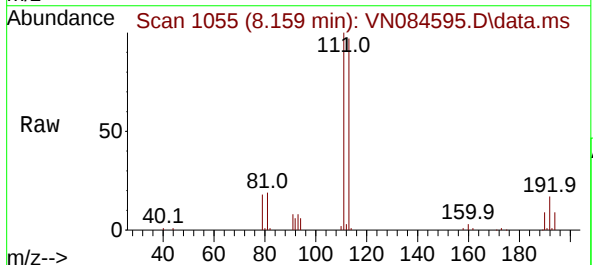
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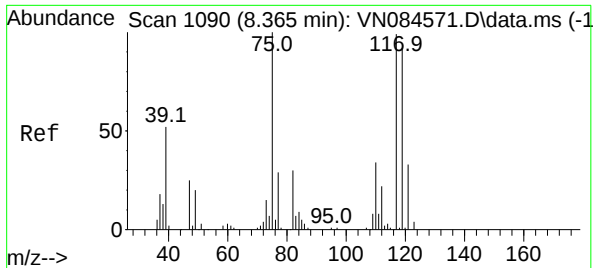
Tgt Ion:114 Resp: 328463
Ion Ratio Lower Upper
114 100
63 21.1 0.0 43.8
88 16.7 0.0 31.6



#35
Dibromofluoromethane
Concen: 47.575 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN084595.D
Acq: 31 Oct 2024 02:57

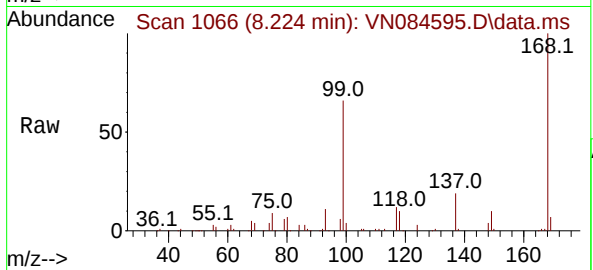
Tgt Ion:113 Resp: 105773
Ion Ratio Lower Upper
113 100
111 103.5 83.3 124.9
192 18.1 13.5 20.3



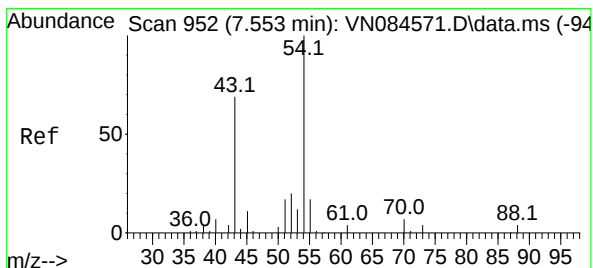
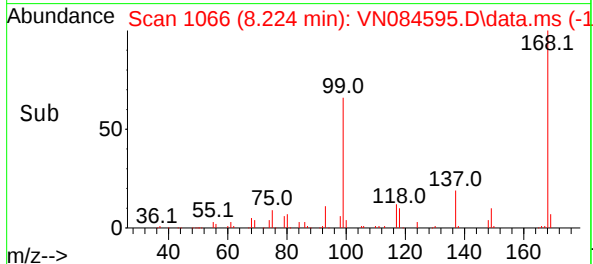
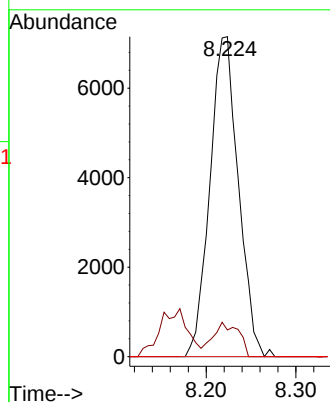


#36
1,1-Dichloropropene
Concen: 5.120 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN084595.D
Acq: 31 Oct 2024 02:57

Instrument :
MSVOA_N
ClientSampleId :

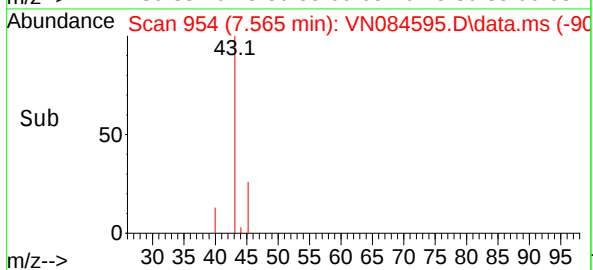
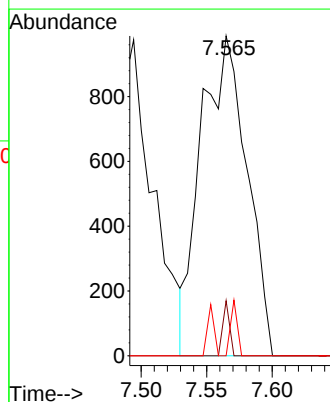
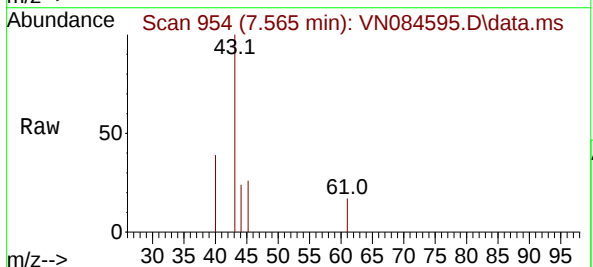


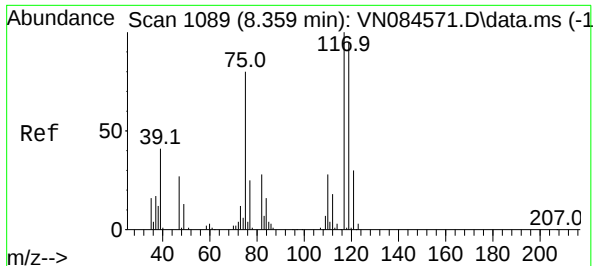
Tgt Ion: 75 Resp: 15787
Ion Ratio Lower Upper
75 100
110 9.6 16.9 50.7#
77 0.0 24.7 37.1#



#37
Ethyl Acetate
Concen: 0.858 ug/l
RT: 7.565 min Scan# 954
Delta R.T. 0.006 min
Lab File: VN084595.D
Acq: 31 Oct 2024 02:57

Tgt Ion: 43 Resp: 2401
Ion Ratio Lower Upper
43 100
61 2.5 10.7 16.1#
70 2.5 8.8 13.2#





#38

Carbon Tetrachloride

Concen: 5.792 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.135 min

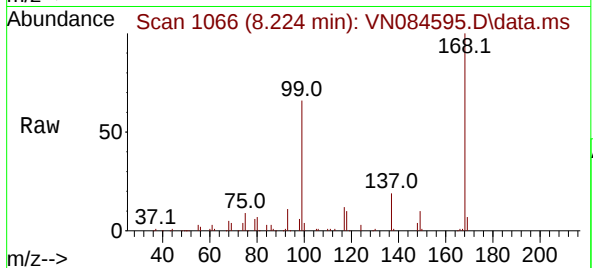
Lab File: VN084595.D

Acq: 31 Oct 2024 02:57

Instrument :

MSVOA_N

ClientSampleId :



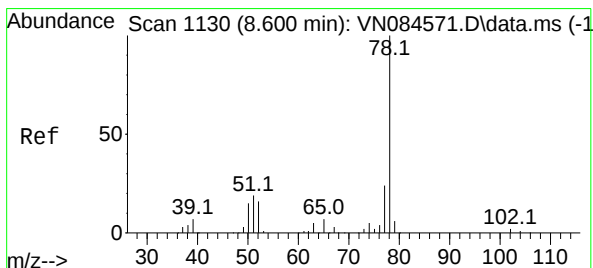
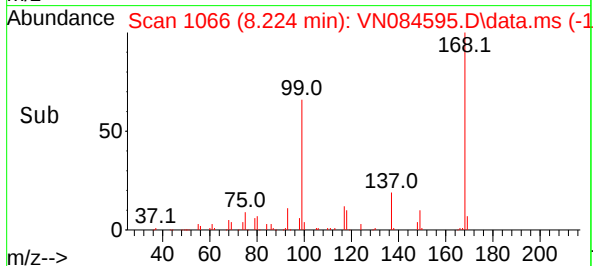
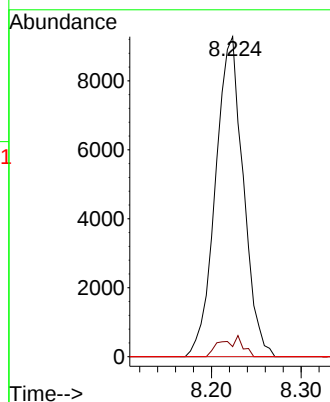
Tgt Ion:117 Resp: 19961

Ion Ratio Lower Upper

117 100

119 3.2 78.7 118.1#

121 0.0 24.4 36.6#



#40

Benzene

Concen: 0.473 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VN084595.D

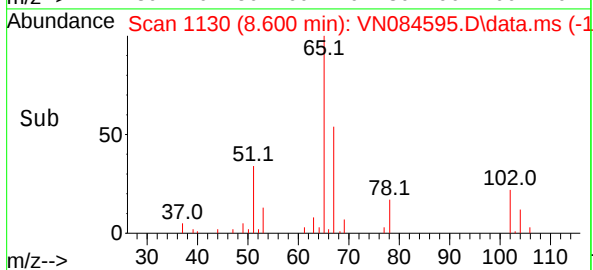
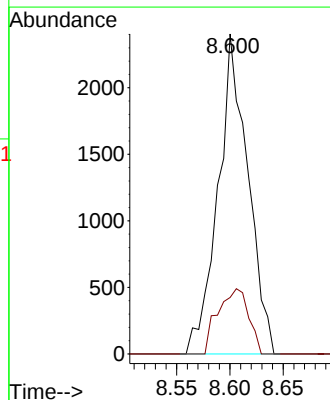
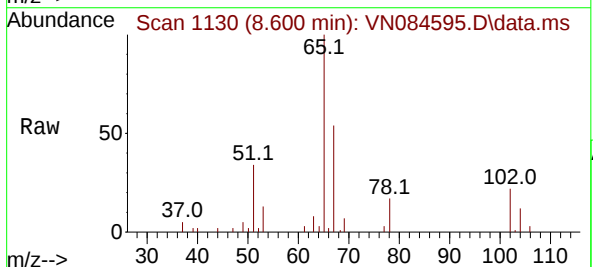
Acq: 31 Oct 2024 02:57

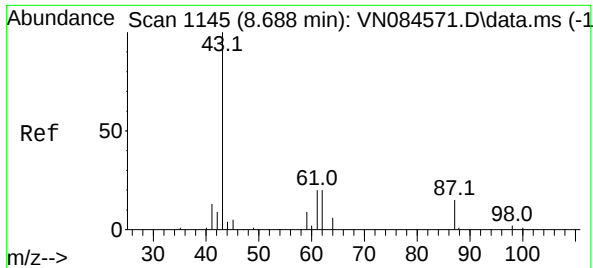
Tgt Ion: 78 Resp: 4681

Ion Ratio Lower Upper

78 100

77 17.6 19.1 28.7#

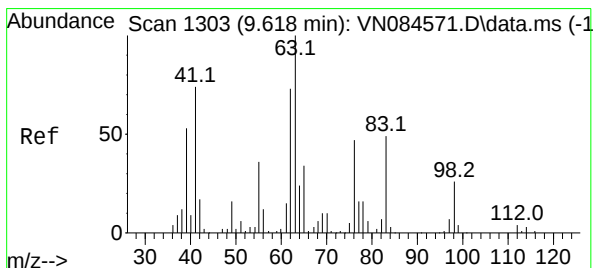
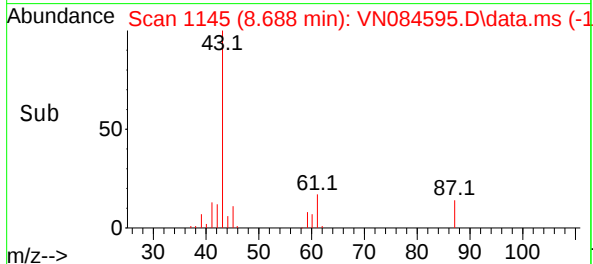
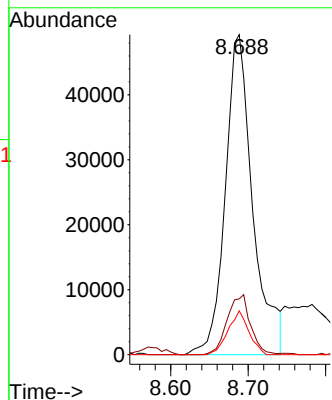
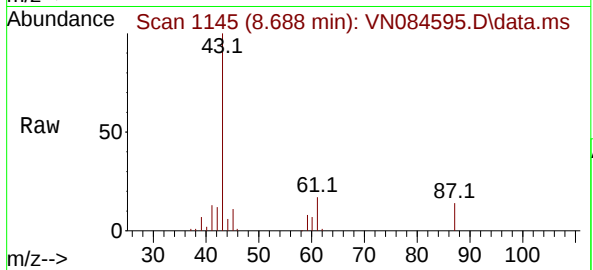




#43
Isopropyl Acetate
Concen: 23.051 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN084595.D
Acq: 31 Oct 2024 02:57

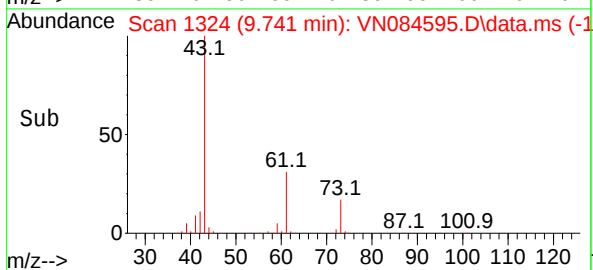
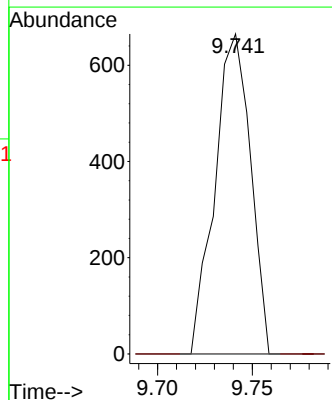
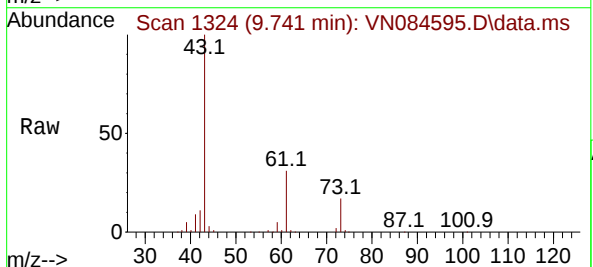
Instrument :
MSVOA_N
ClientSampleId :

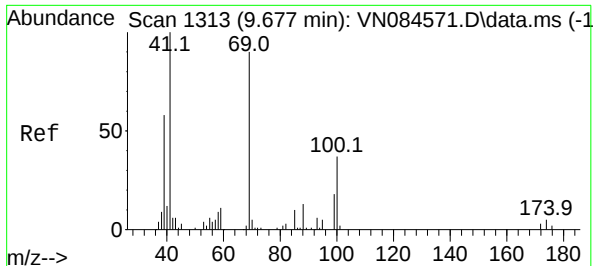
Tgt Ion: 43 Resp: 121824
Ion Ratio Lower Upper
43 100
61 15.9 20.4 30.6#
87 10.4 10.3 15.5



#45
1,2-Dichloropropane
Concen: 0.375 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.123 min
Lab File: VN084595.D
Acq: 31 Oct 2024 02:57

Tgt Ion: 63 Resp: 871
Ion Ratio Lower Upper
63 100
65 0.0 24.6 37.0#





#48

Methyl methacrylate

Concen: 1.240 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.012 min

Lab File: VN084595.D

Acq: 31 Oct 2024 02:57

Instrument :

MSVOA_N

ClientSampleId :

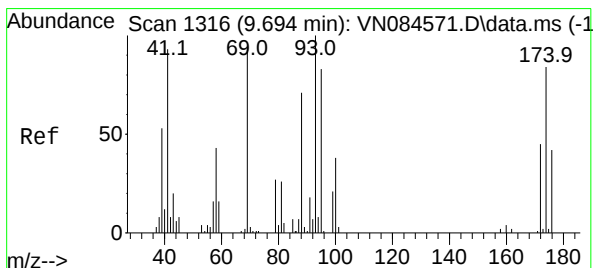
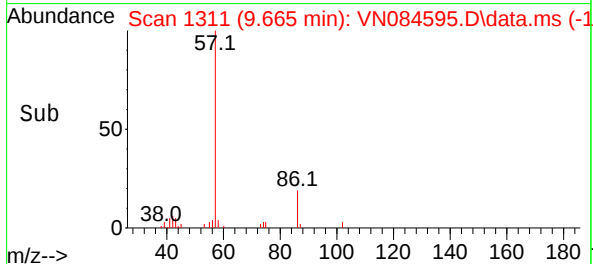
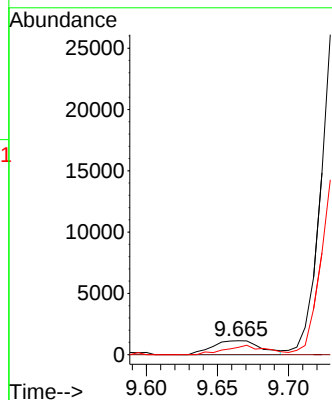
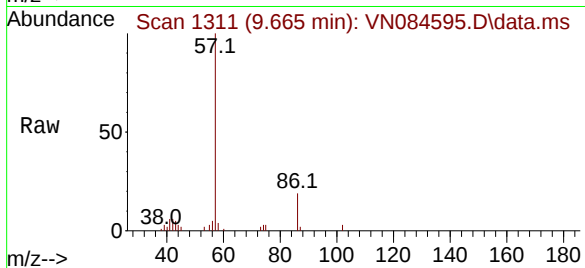
Tgt Ion: 41 Resp: 2699

Ion Ratio Lower Upper

41 100

69 0.0 67.1 100.7#

39 57.8 45.8 68.6



#49

1,4-Dioxane

Concen: 1.711 ug/l

RT: 9.724 min Scan# 1321

Delta R.T. 0.029 min

Lab File: VN084595.D

Acq: 31 Oct 2024 02:57

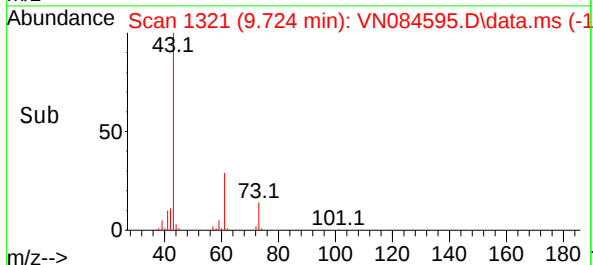
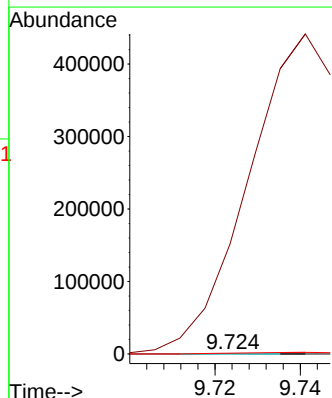
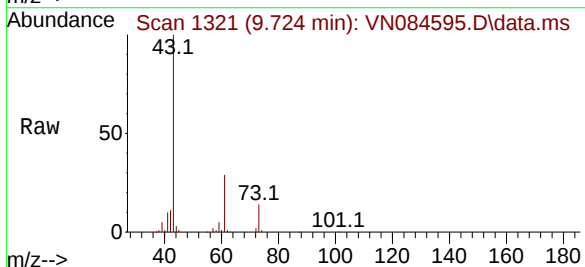
Tgt Ion: 88 Resp: 66

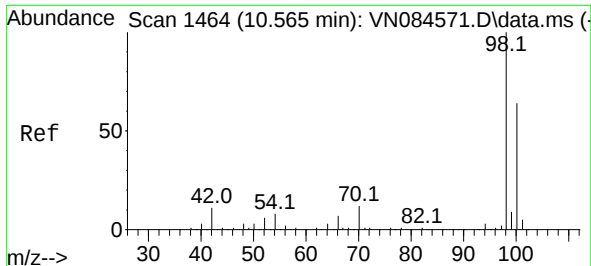
Ion Ratio Lower Upper

88 100

43 1197315.2 25.3 37.9#

58 6154.5 56.4 84.6#





#50

Toluene-d8

Concen: 48.451 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084595.D

Acq: 31 Oct 2024 02:57

Instrument :

MSVOA_N

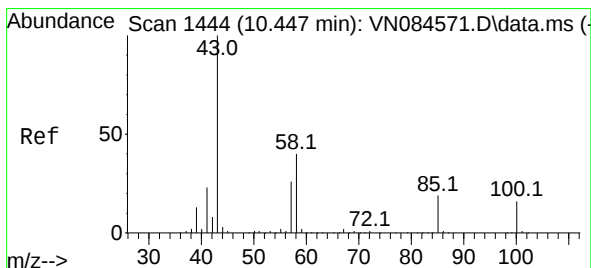
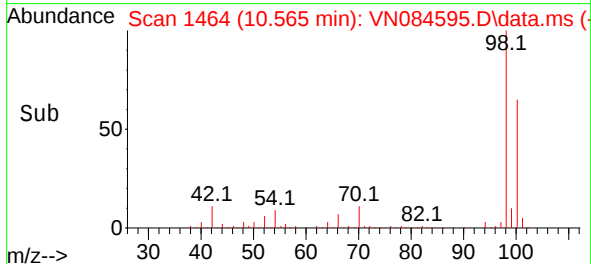
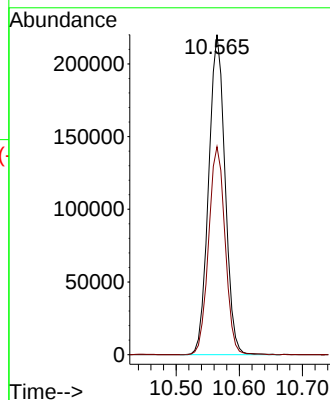
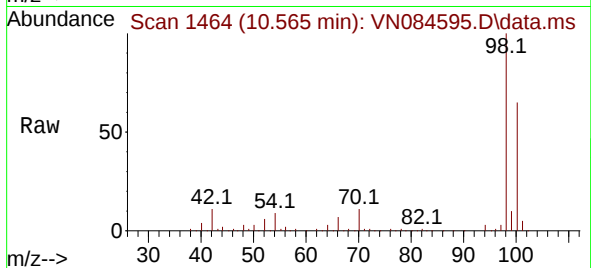
ClientSampleId :

Tgt Ion: 98 Resp: 396807

Ion Ratio Lower Upper

98 100

100 65.2 52.7 79.1



#51

4-Methyl-2-Pentanone

Concen: 1.345 ug/l

RT: 10.441 min Scan# 1443

Delta R.T. -0.000 min

Lab File: VN084595.D

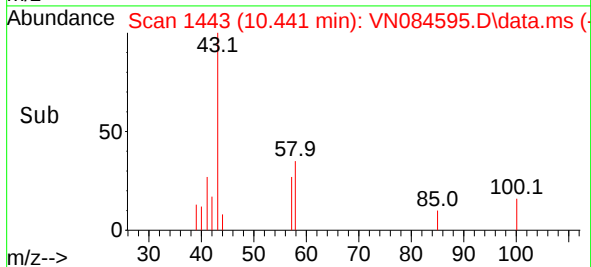
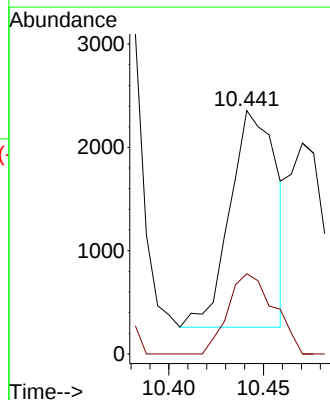
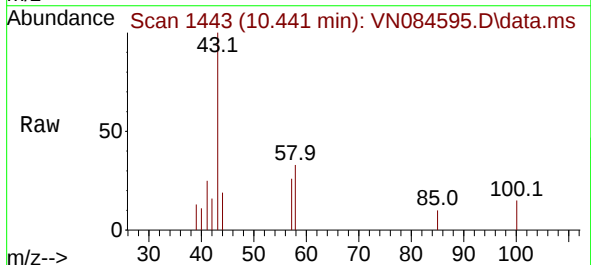
Acq: 31 Oct 2024 02:57

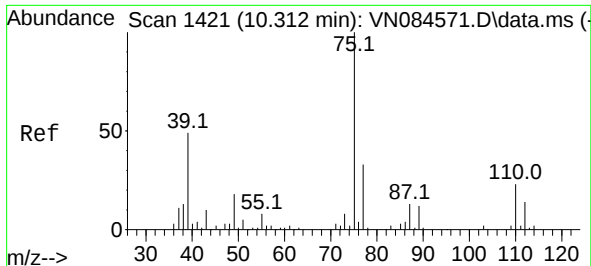
Tgt Ion: 43 Resp: 3586

Ion Ratio Lower Upper

43 100

58 36.7 31.6 47.4

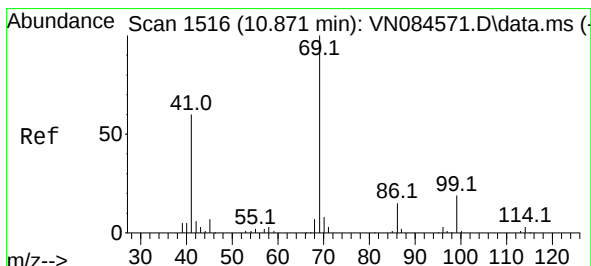
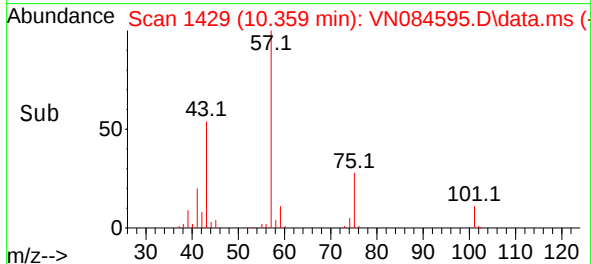
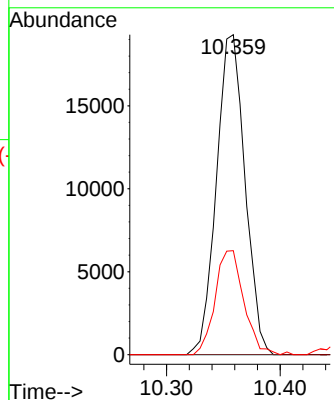
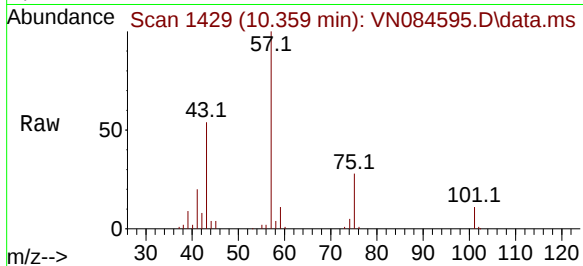




#54
cis-1,3-Dichloropropene
Concen: 8.893 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN084595.D
Acq: 31 Oct 2024 02:57

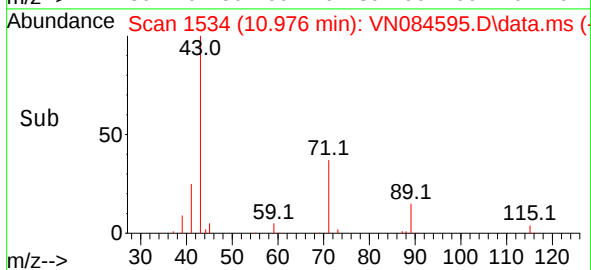
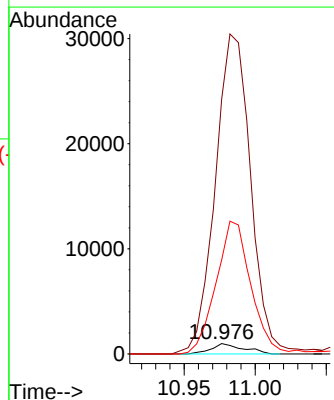
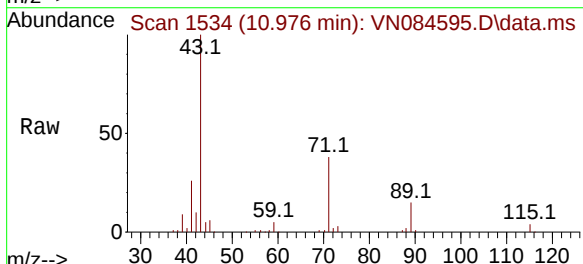
Instrument :
MSVOA_N
ClientSampleId :

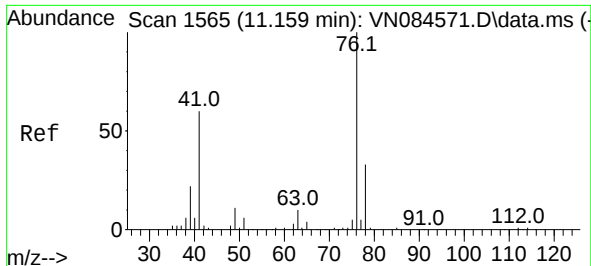
Tgt Ion: 75 Resp: 33663
Ion Ratio Lower Upper
75 100
77 0.0 24.2 36.2#
39 32.5 38.7 58.1#



#56
Ethyl methacrylate
Concen: 0.489 ug/l
RT: 10.976 min Scan# 1534
Delta R.T. 0.106 min
Lab File: VN084595.D
Acq: 31 Oct 2024 02:57

Tgt Ion: 69 Resp: 1543
Ion Ratio Lower Upper
69 100
41 3423.0 53.3 79.9#
39 1406.5 28.8 43.2#





#57

1,3-Dichloropropane

Concen: 1.199 ug/l

RT: 11.200 min Scan# 1567

Delta R.T. 0.041 min

Lab File: VN084595.D

Acq: 31 Oct 2024 02:57

Instrument :

MSVOA_N

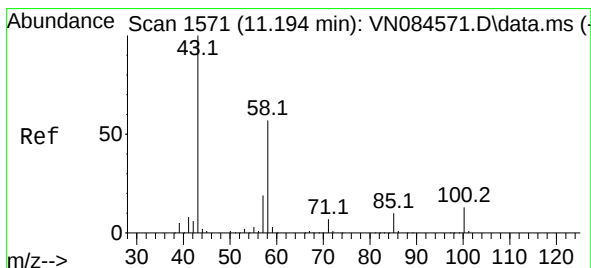
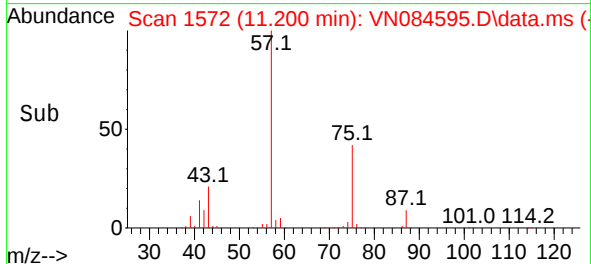
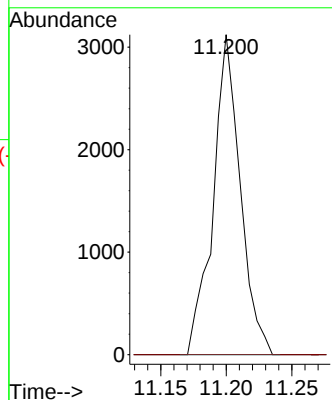
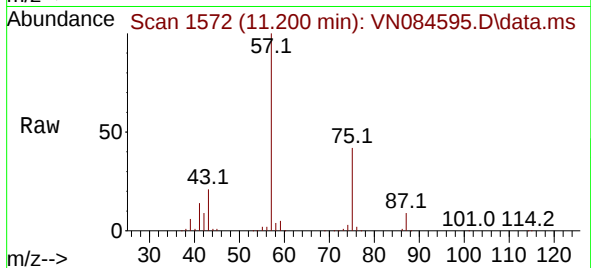
ClientSampleId :

Tgt Ion: 76 Resp: 4489

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 45.081 ug/l

RT: 11.170 min Scan# 1567

Delta R.T. -0.024 min

Lab File: VN084595.D

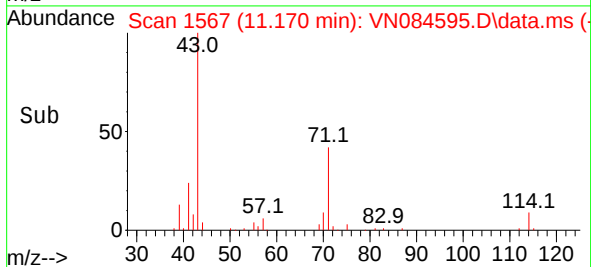
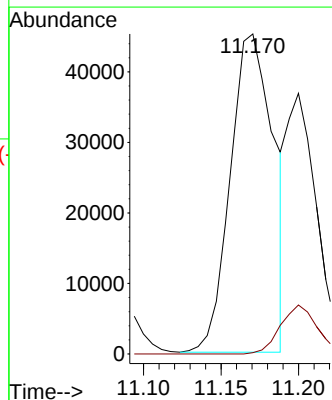
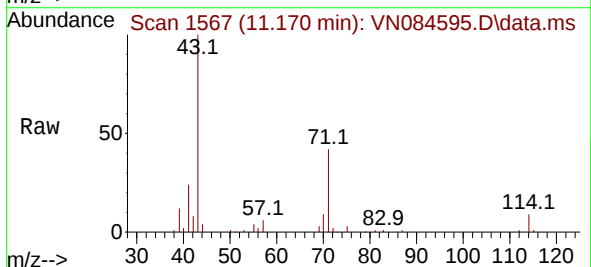
Acq: 31 Oct 2024 02:57

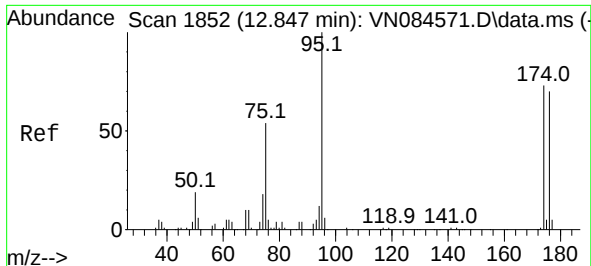
Tgt Ion: 43 Resp: 87513

Ion Ratio Lower Upper

43 100

58 0.0 27.3 81.8#





#62

4-Bromofluorobenzene

Concen: 47.664 ug/l

RT: 12.847 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN084595.D

Acq: 31 Oct 2024 02:57

Instrument :

MSVOA_N

ClientSampleId :

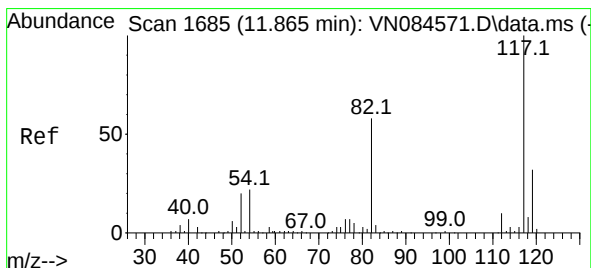
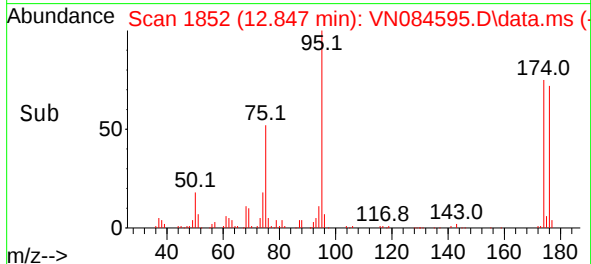
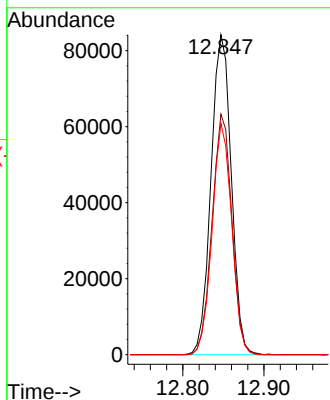
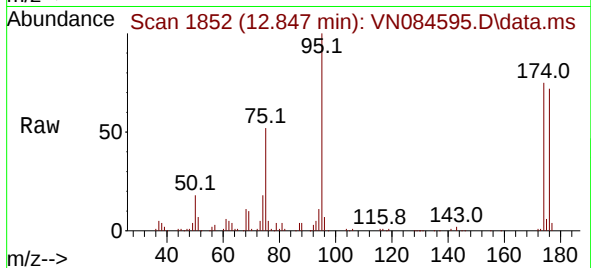
Tgt Ion: 95 Resp: 145893

Ion Ratio Lower Upper

95 100

174 73.7 0.0 145.2

176 69.8 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: VN084595.D

Acq: 31 Oct 2024 02:57

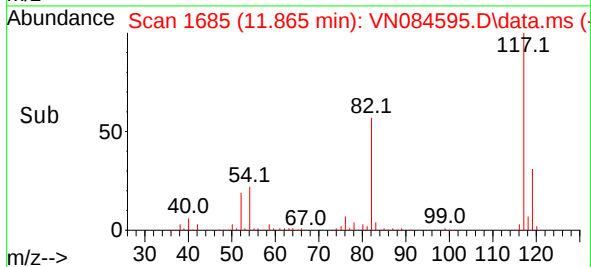
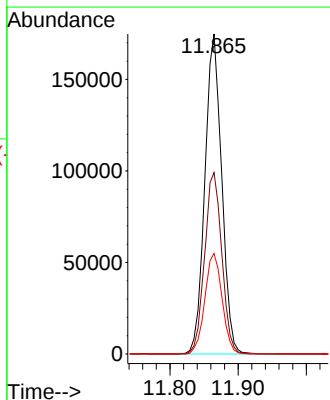
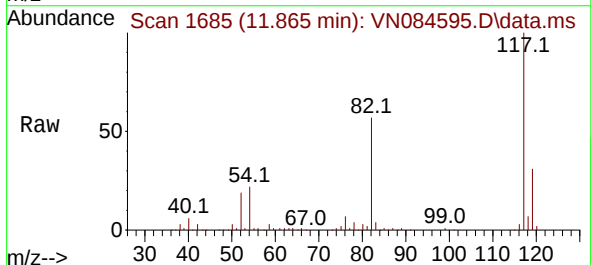
Tgt Ion: 117 Resp: 299887

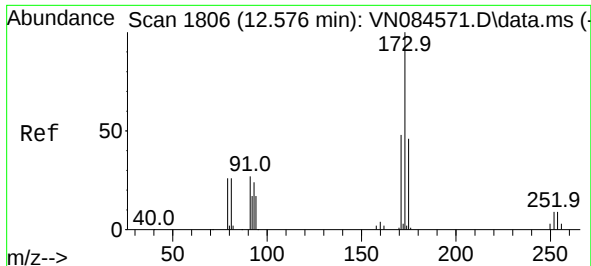
Ion Ratio Lower Upper

117 100

82 56.7 47.2 70.8

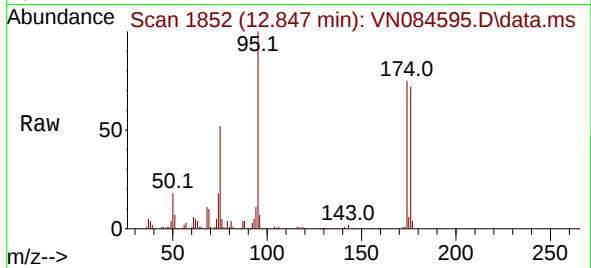
119 31.4 25.4 38.0



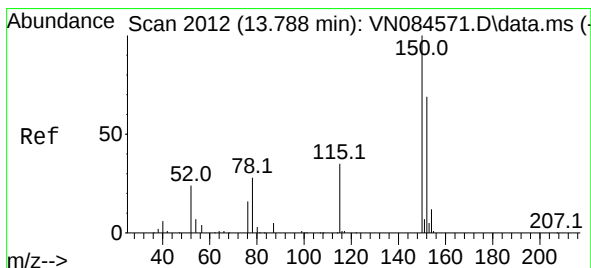
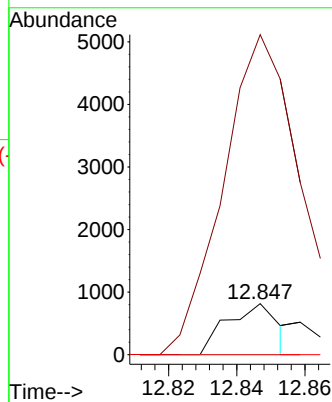
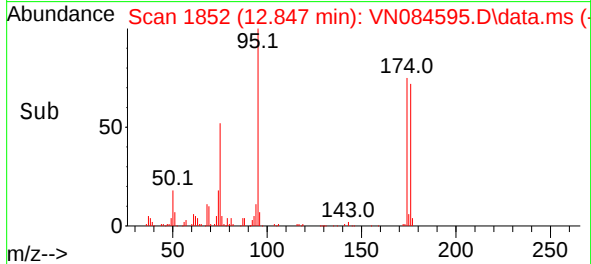


#71
Bromoform
Concen: 0.482 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.270 min
Lab File: VN084595.D
Acq: 31 Oct 2024 02:57

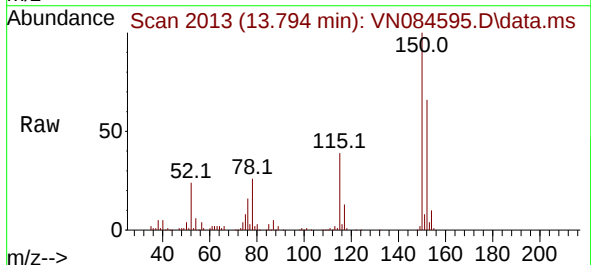
Instrument :
MSVOA_N
ClientSampleId :



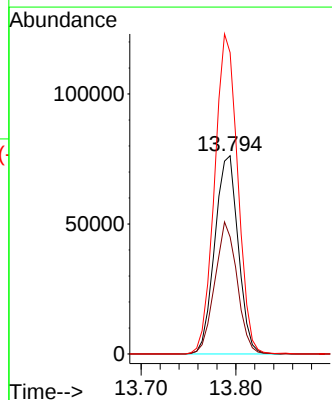
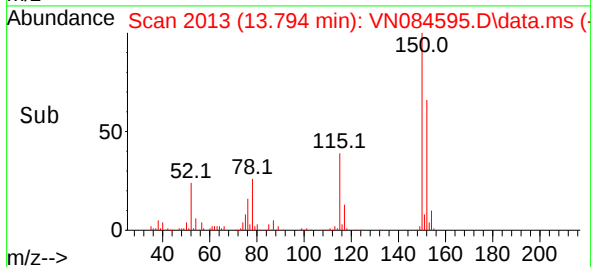
Tgt Ion:173 Resp: 846
Ion Ratio Lower Upper
173 100
175 741.6 23.5 70.6#
254 0.0 0.0 0.0

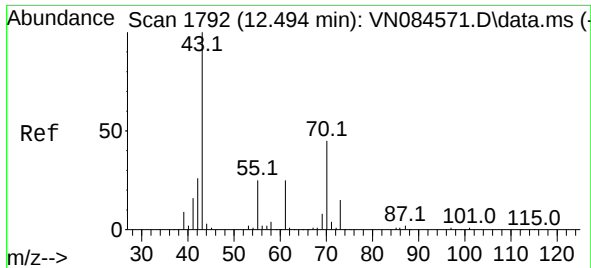


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN084595.D
Acq: 31 Oct 2024 02:57



Tgt Ion:152 Resp: 131219
Ion Ratio Lower Upper
152 100
115 63.4 31.3 93.9
150 158.9 0.0 349.8

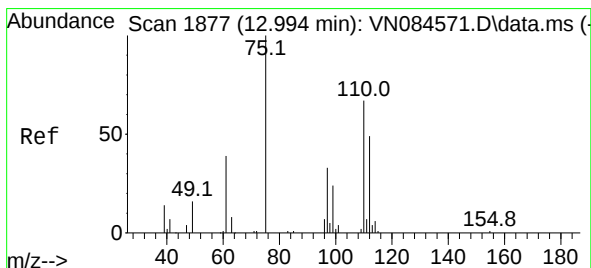
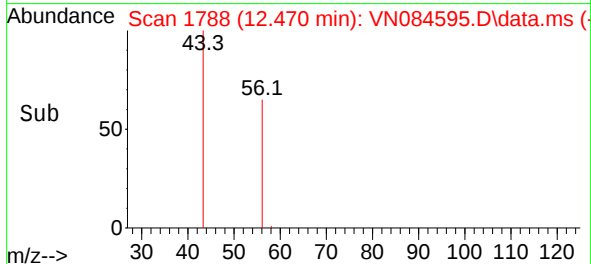
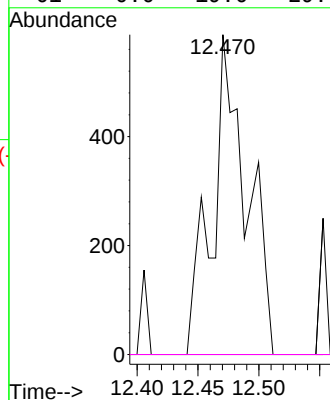
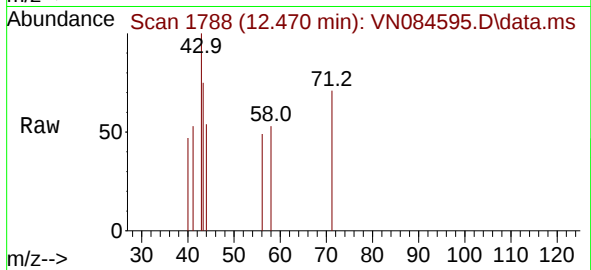




#74
N-amy1 acetate
Concen: 0.296 ug/l
RT: 12.470 min Scan# 1160
Delta R.T. -0.024 min
Lab File: VN084595.D
Acq: 31 Oct 2024 02:57

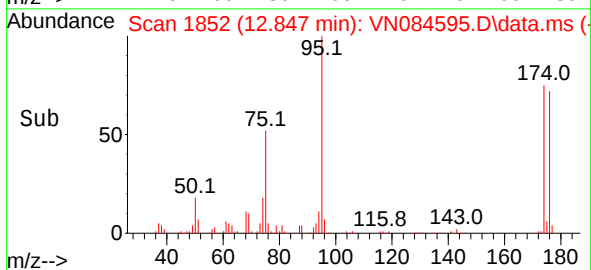
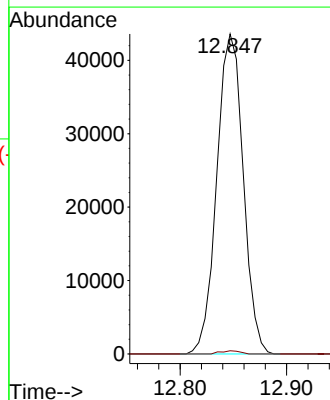
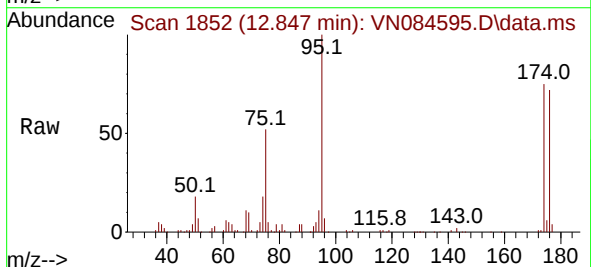
Instrument :
MSVOA_N
ClientSampleId :

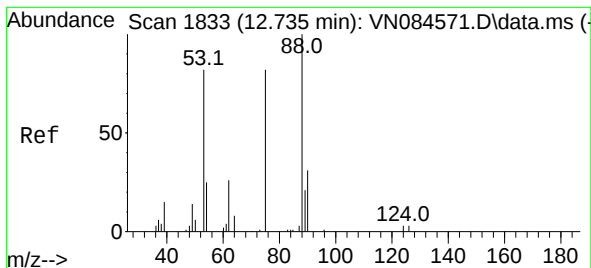
Tgt Ion:	43	Resp:	1160
Ion	Ratio	Lower	Upper
43	100		
70	0.0	34.4	51.6#
55	0.0	19.6	29.4#
61	0.0	19.6	29.4#



#76
1,2,3-Trichloropropane
Concen: 28.609 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN084595.D
Acq: 31 Oct 2024 02:57

Tgt Ion:	75	Resp:	75041
Ion	Ratio	Lower	Upper
75	100		
77	0.7	96.9	290.7#

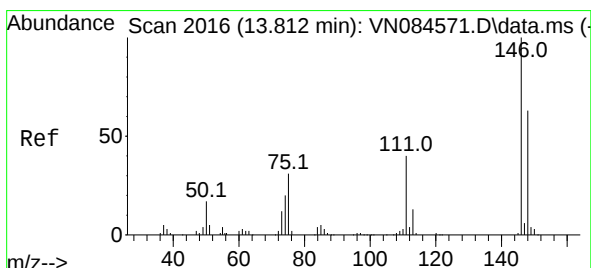
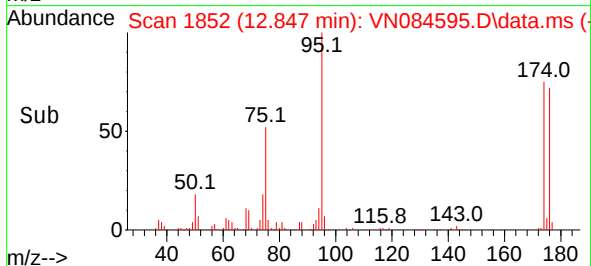
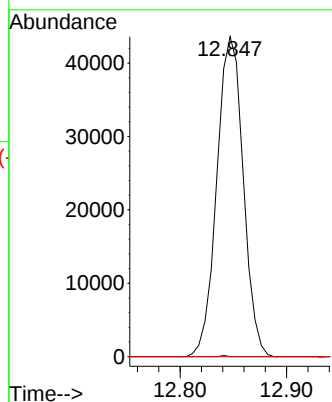
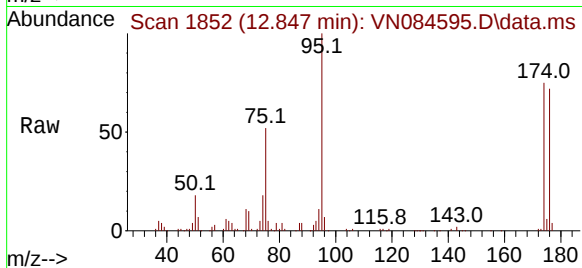




#81
trans-1,4-Dichloro-2-butene
Concen: 67.871 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN084595.D
Acq: 31 Oct 2024 02:57

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 75041
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: 13.817 min Scan# 2017
Delta R.T. 0.005 min
Lab File: VN084595.D
Acq: 31 Oct 2024 02:57

Tgt Ion:146 Resp: 79
Ion Ratio Lower Upper
146 100
111 0.0 21.2 63.6#
148 0.0 31.9 95.9#

