

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084608.D
 Acq On : 31 Oct 2024 08:10
 Operator : JC\MD
 Sample : PB164501ZHE#17
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 01 06:20:17 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)

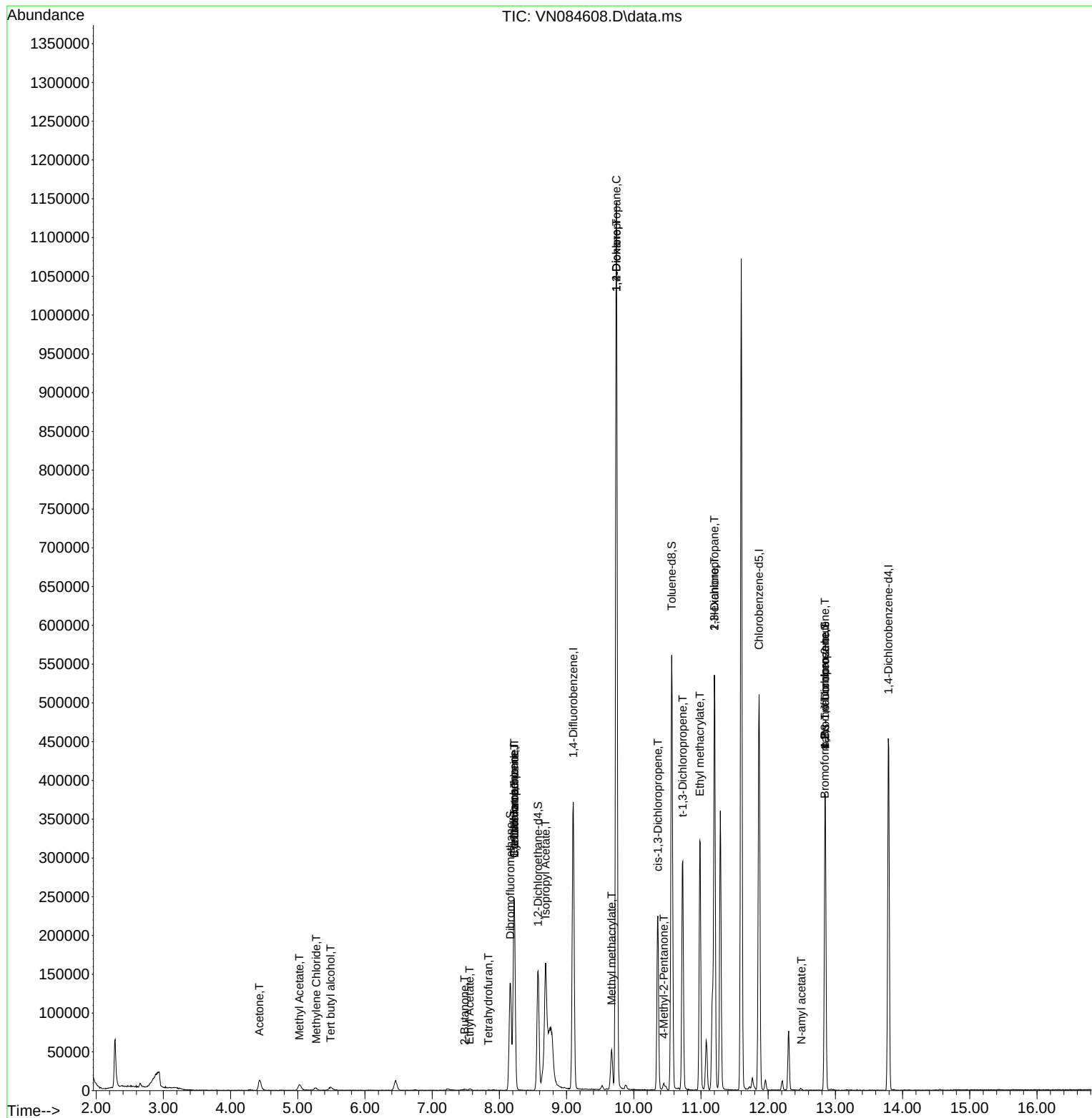
Internal Standards						
1) Pentafluorobenzene	8.218	168	175622	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	318843	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	293436	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	122786	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	128984	50.850	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.700%			
35) Dibromofluoromethane	8.165	113	103740	48.068	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.140%			
50) Toluene-d8	10.565	98	383967	48.297	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.600%			
62) 4-Bromofluorobenzene	12.847	95	135752	45.689	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 91.380%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	837	Below Cal	#	41
6) Chloroethane	3.136	64	329	Below Cal	#	45
11) Tert butyl alcohol	5.488	59	2408	7.192	ug/l #	73
16) Acetone	4.430	43	25904	32.876	ug/l	96
18) Methyl Acetate	5.024	43	16651	2.423	ug/l	99
20) Methylene Chloride	5.277	84	2348	1.052	ug/l #	85
25) 2-Butanone	7.482	43	2957	2.499	ug/l #	85
29) Tetrahydrofuran	7.835	42	323	0.411	ug/l #	34
31) Cyclohexane	8.224	56	4033	1.152	ug/l #	18
36) 1,1-Dichloropropene	8.224	75	15088	5.041	ug/l #	51
37) Ethyl Acetate	7.559	43	3176	1.170	ug/l #	86
38) Carbon Tetrachloride	8.224	117	19078	5.703	ug/l #	15
43) Isopropyl Acetate	8.688	43	232513	46.273	ug/l #	76
45) 1,2-Dichloropropane	9.741	63	1508	0.669	ug/l #	44
48) Methyl methacrylate	9.671	41	3087	1.461	ug/l #	45
49) 1,4-Dioxane	9.741	88	90	2.403	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	8818	3.406	ug/l #	74
53) t-1,3-Dichloropropene	10.729	75	803	0.231	ug/l #	43
54) cis-1,3-Dichloropropene	10.359	75	41397	11.266	ug/l #	62
56) Ethyl methacrylate	10.982	69	1869	0.610	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	5454	1.501	ug/l #	42
59) 2-Hexanone	11.200	43	66778	35.438	ug/l #	56
71) Bromoform	12.841	173	423	0.246	ug/l #	30
74) N-amyl acetate	12.494	43	1755	0.479	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	69313	28.240	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	69313	66.996	ug/l #	11

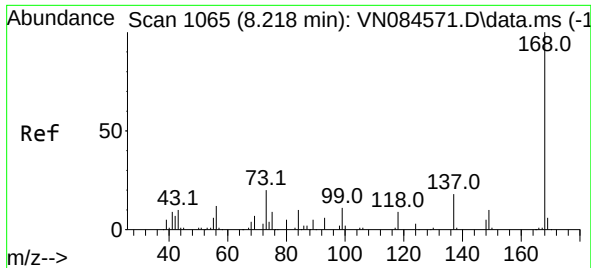
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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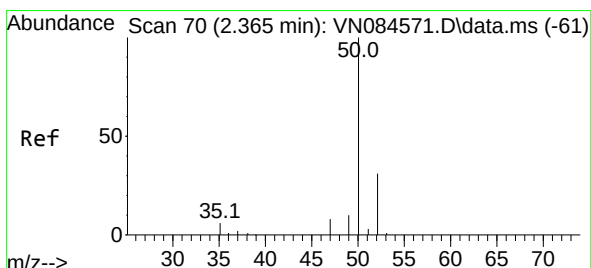
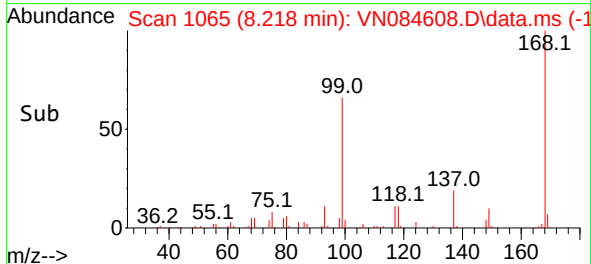
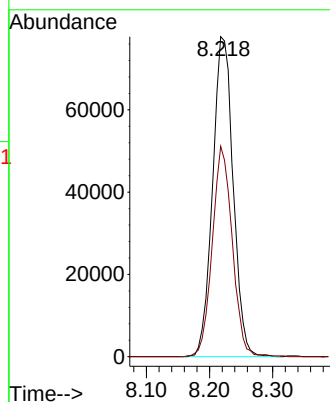
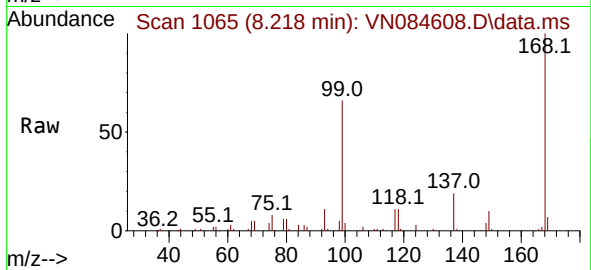




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VN084608.D
Acq: 31 Oct 2024 08:10

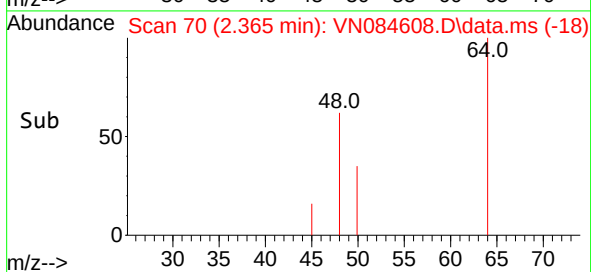
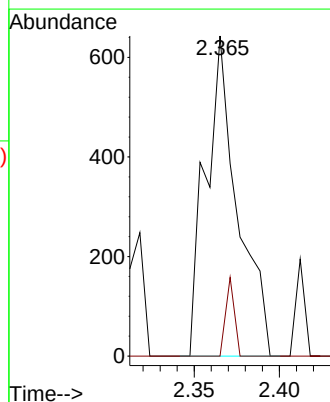
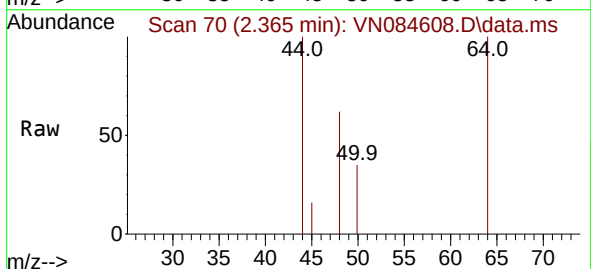
Instrument :
MSVOA_N
ClientSampleId :

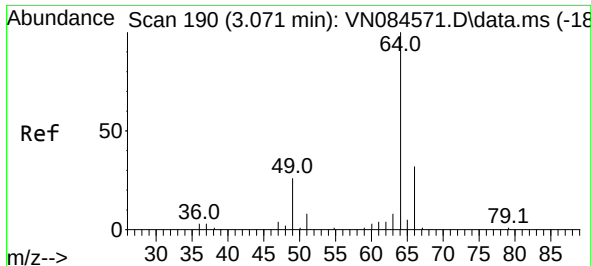
Tgt Ion:168 Resp: 175622
Ion Ratio Lower Upper
168 100
99 65.7 54.2 81.2



#3
Chloromethane
Concen: Below Cal
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN084608.D
Acq: 31 Oct 2024 08:10

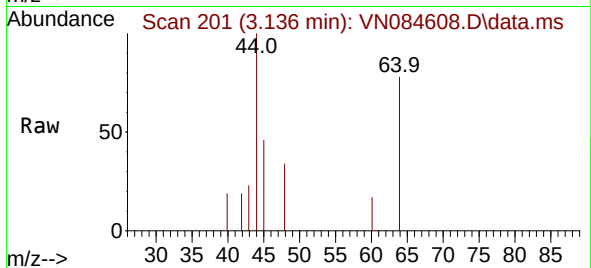
Tgt Ion: 50 Resp: 837
Ion Ratio Lower Upper
50 100
52 0.0 26.8 40.2#



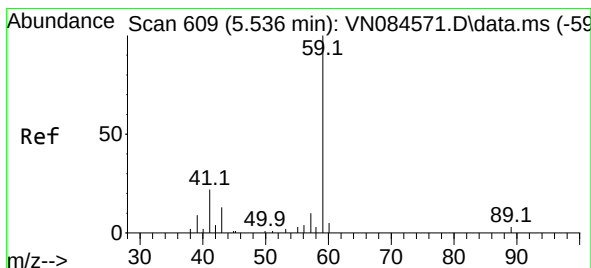
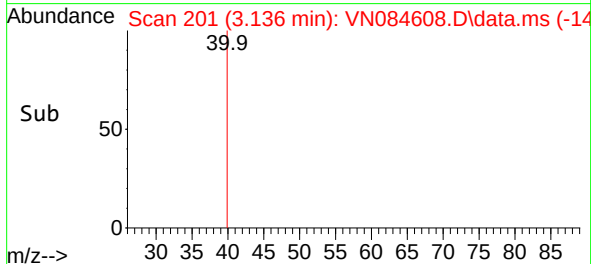
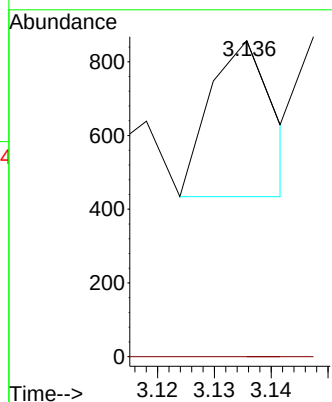


#6
Chloroethane
Concen: Below Cal
RT: 3.136 min Scan# 201
Delta R.T. 0.018 min
Lab File: VN084608.D
Acq: 31 Oct 2024 08:10

Instrument :
MSVOA_N
ClientSampleId :

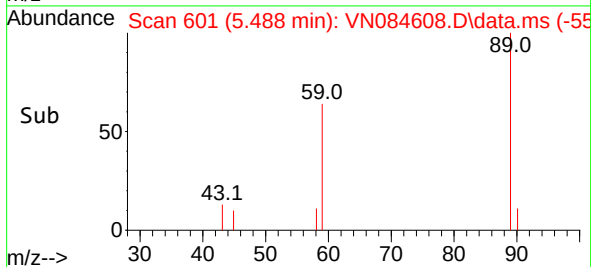
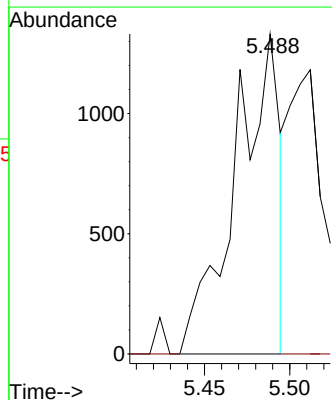
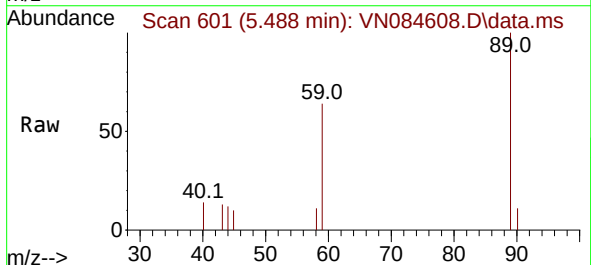


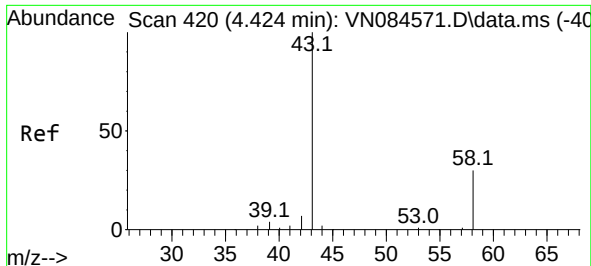
Tgt Ion: 64 Resp: 329
Ion Ratio Lower Upper
64 100
66 0.0 23.5 35.3#



#11
Tert butyl alcohol
Concen: 7.192 ug/l
RT: 5.488 min Scan# 601
Delta R.T. -0.035 min
Lab File: VN084608.D
Acq: 31 Oct 2024 08:10

Tgt Ion: 59 Resp: 2408
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

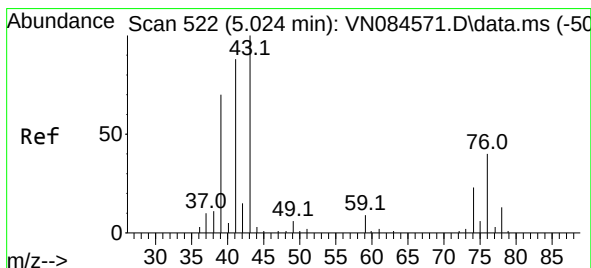
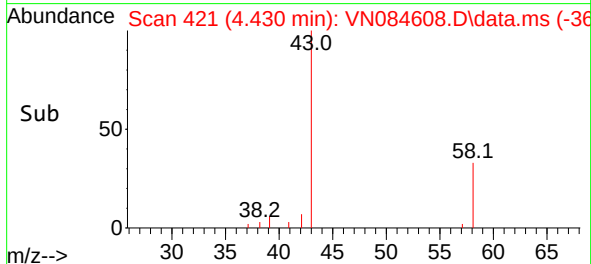
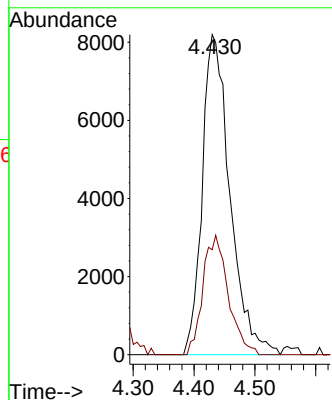
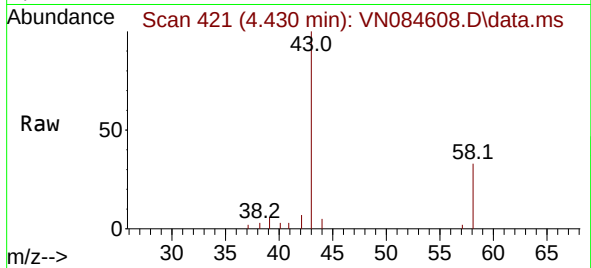




#16
Acetone
Concen: 32.876 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN084608.D
Acq: 31 Oct 2024 08:10

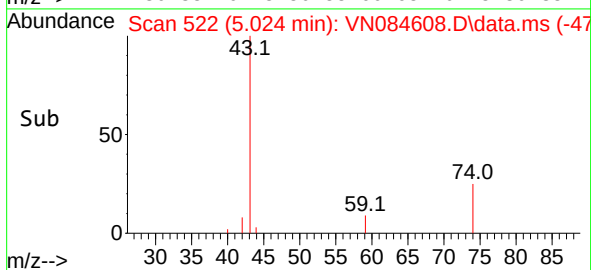
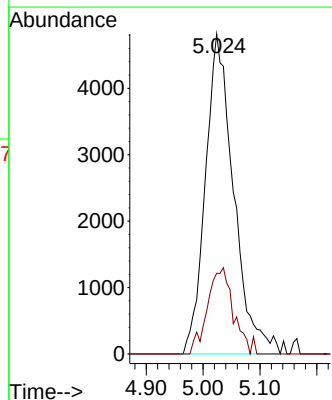
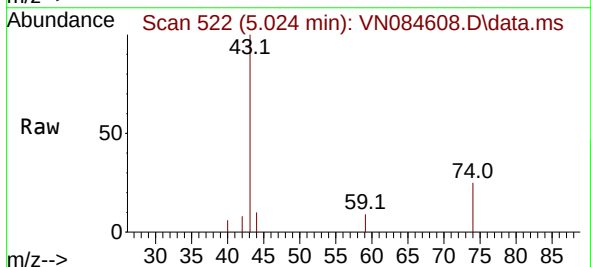
Instrument :
MSVOA_N
ClientSampleId :

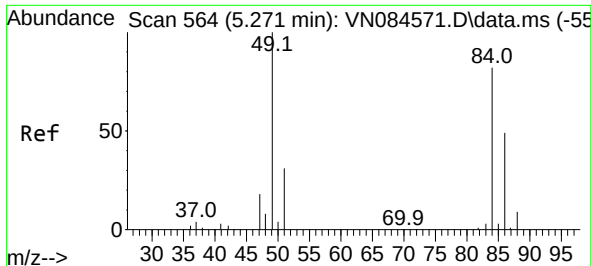
Tgt Ion: 43 Resp: 25904
Ion Ratio Lower Upper
43 100
58 32.8 24.4 36.6



#18
Methyl Acetate
Concen: 2.423 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN084608.D
Acq: 31 Oct 2024 08:10

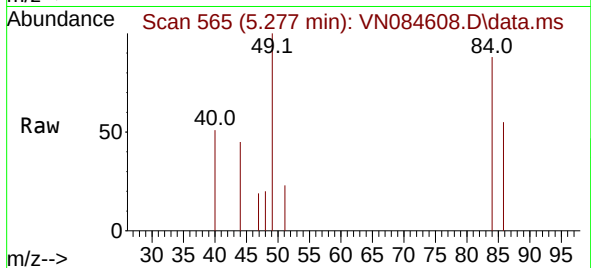
Tgt Ion: 43 Resp: 16651
Ion Ratio Lower Upper
43 100
74 24.3 19.2 28.8





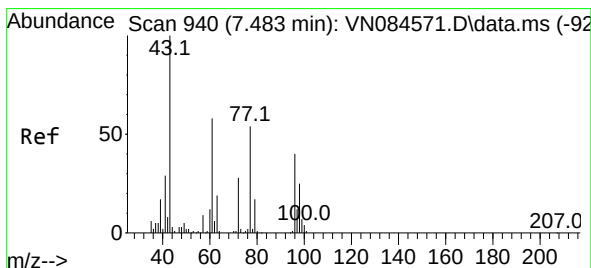
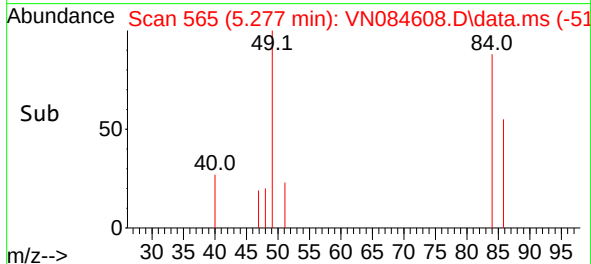
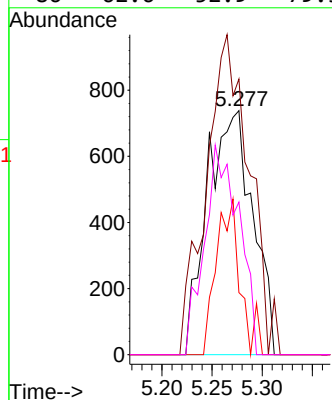
#20
Methylene Chloride
Concen: 1.052 ug/l
RT: 5.277 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN084608.D
Acq: 31 Oct 2024 08:10

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 84 Resp: 2348

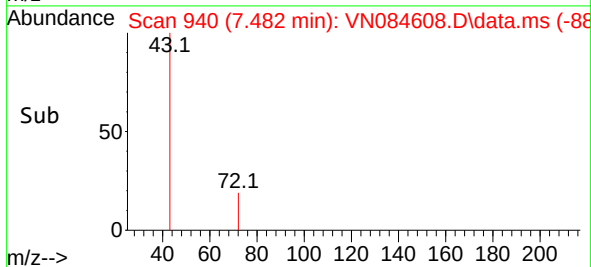
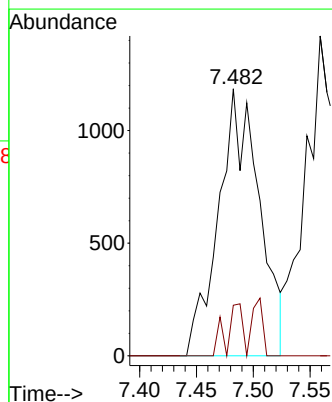
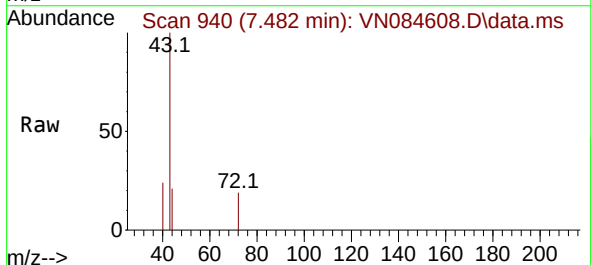
Ion	Ratio	Lower	Upper
84	100		
49	113.0	107.2	160.8
51	25.5	31.8	47.8#
86	62.6	52.9	79.3

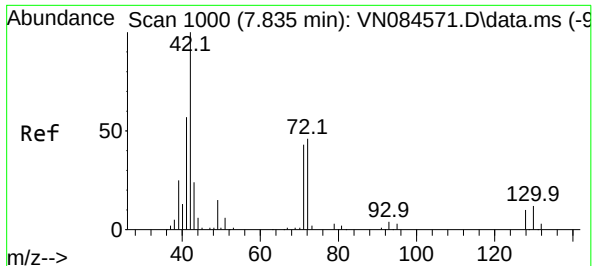


#25
2-Butanone
Concen: 2.499 ug/l
RT: 7.482 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN084608.D
Acq: 31 Oct 2024 08:10

Tgt Ion: 43 Resp: 2957

Ion	Ratio	Lower	Upper
43	100		
72	19.0	21.4	32.2#





#29

Tetrahydrofuran

Concen: 0.411 ug/l

RT: 7.835 min Scan# 10

Delta R.T. -0.000 min

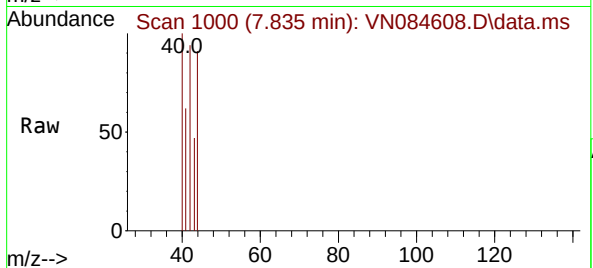
Lab File: VN084608.D

Acq: 31 Oct 2024 08:10

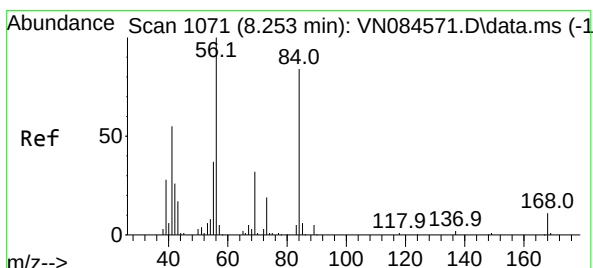
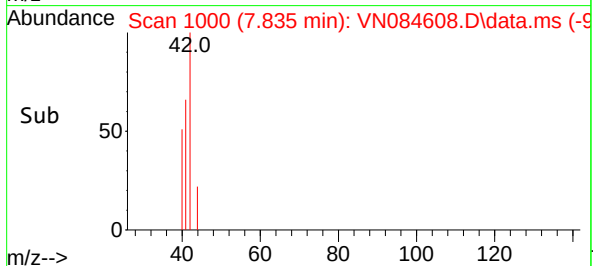
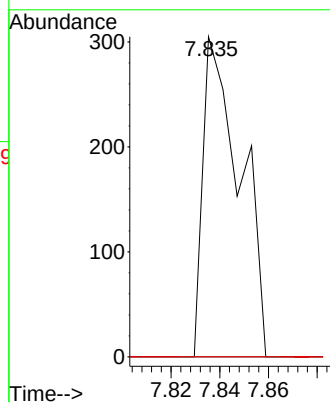
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	323
Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.6	51.8#
71	0.0	32.2	48.4#



#31

Cyclohexane

Concen: 1.152 ug/l

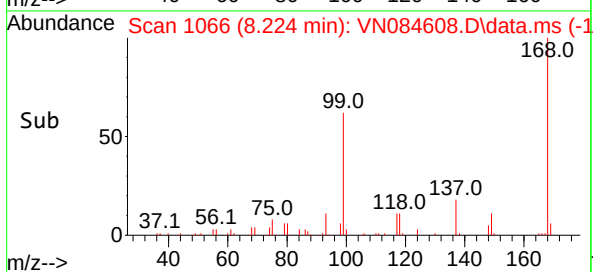
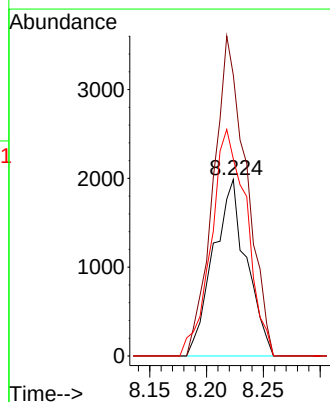
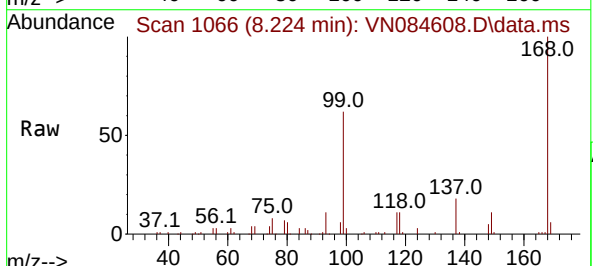
RT: 8.224 min Scan# 1066

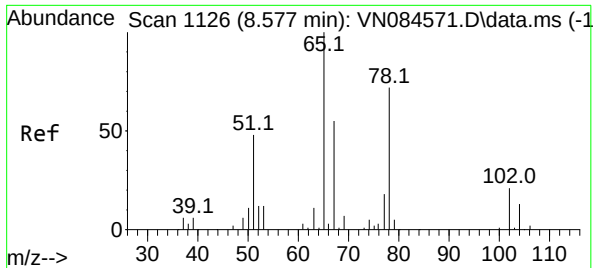
Delta R.T. -0.029 min

Lab File: VN084608.D

Acq: 31 Oct 2024 08:10

Tgt Ion:	56	Resp:	4033
Ion	Ratio	Lower	Upper
56	100		
69	159.2	23.8	35.6#
84	111.6	68.8	103.2#





#33

1,2-Dichloroethane-d4

Concen: 50.850 ug/l

RT: 8.576 min Scan# 1126

Delta R.T. -0.001 min

Lab File: VN084608.D

Acq: 31 Oct 2024 08:10

Instrument :

MSVOA_N

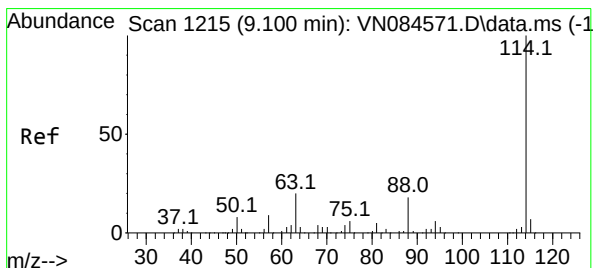
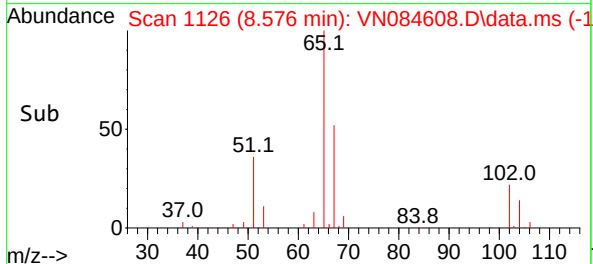
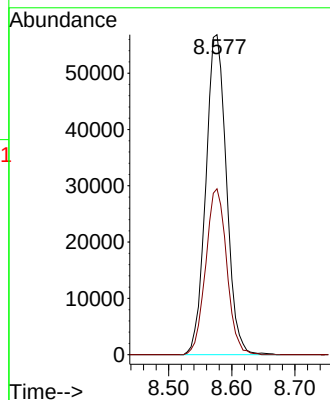
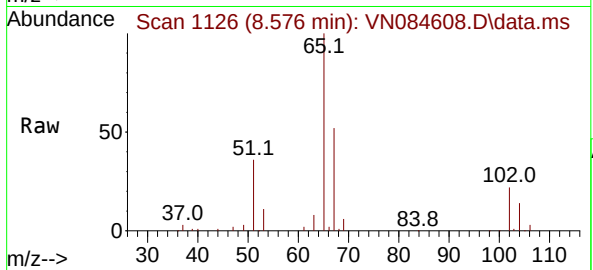
ClientSampleId :

Tgt Ion: 65 Resp: 128984

Ion Ratio Lower Upper

65 100

67 52.8 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: VN084608.D

Acq: 31 Oct 2024 08:10

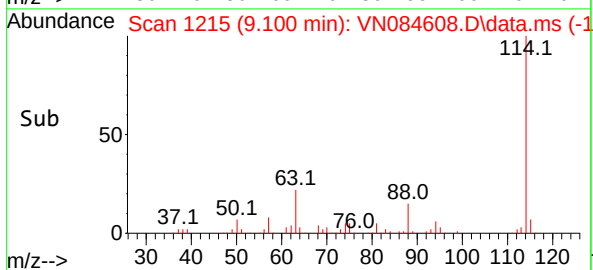
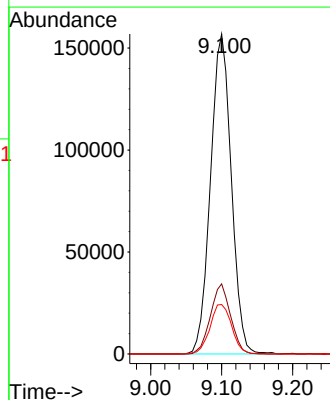
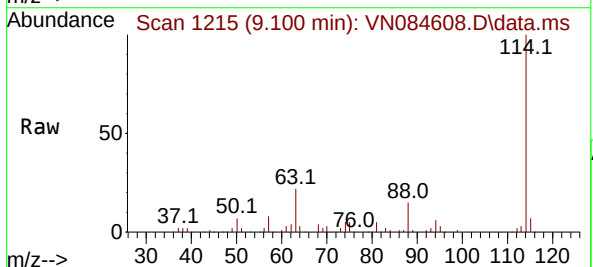
Tgt Ion: 114 Resp: 318843

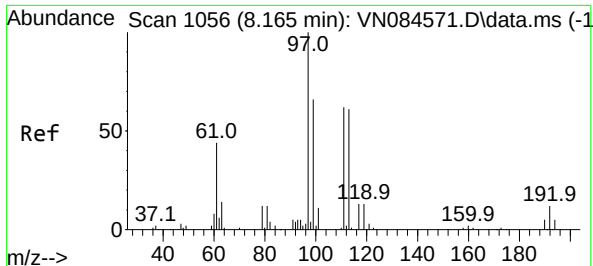
Ion Ratio Lower Upper

114 100

63 21.9 0.0 43.8

88 15.4 0.0 31.6





#35

Dibromofluoromethane

Concen: 48.068 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN084608.D

Acq: 31 Oct 2024 08:10

Instrument :

MSVOA_N

ClientSampleId :

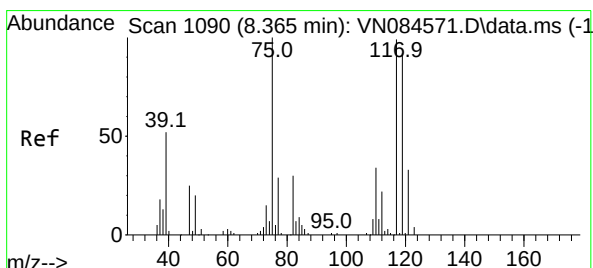
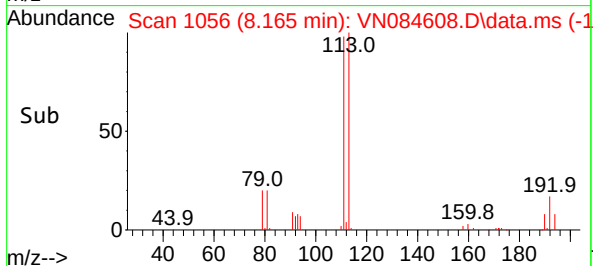
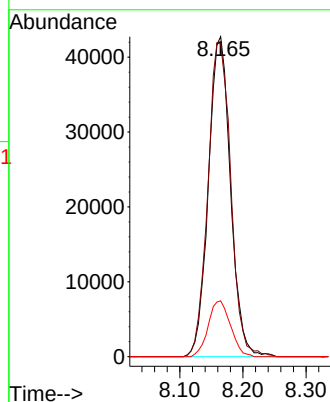
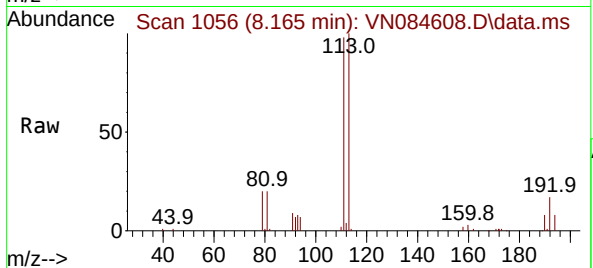
Tgt Ion:113 Resp: 103740

Ion Ratio Lower Upper

113 100

111 102.0 83.3 124.9

192 17.6 13.5 20.3



#36

1,1-Dichloropropene

Concen: 5.041 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN084608.D

Acq: 31 Oct 2024 08:10

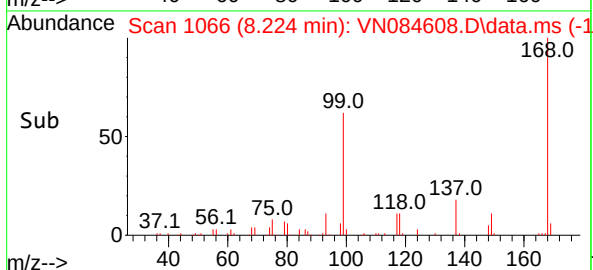
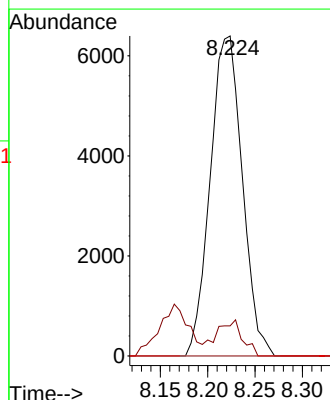
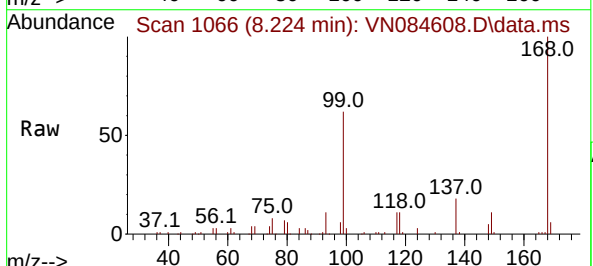
Tgt Ion: 75 Resp: 15088

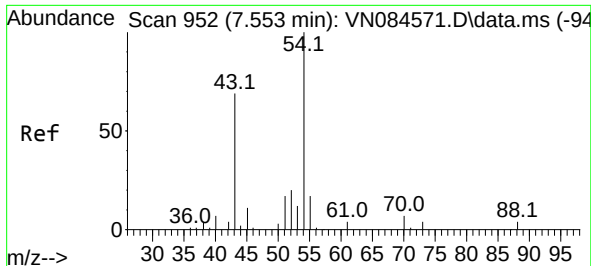
Ion Ratio Lower Upper

75 100

110 9.1 16.9 50.7#

77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 1.170 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.000 min

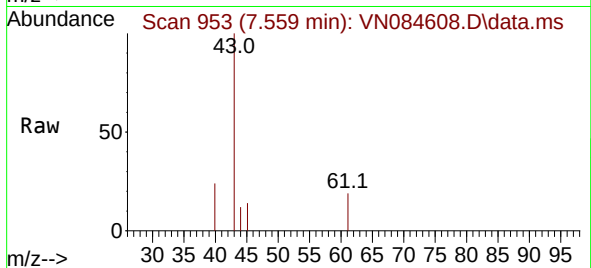
Lab File: VN084608.D

Acq: 31 Oct 2024 08:10

Instrument :

MSVOA_N

ClientSampleId :



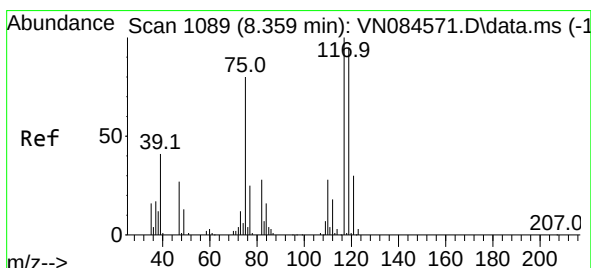
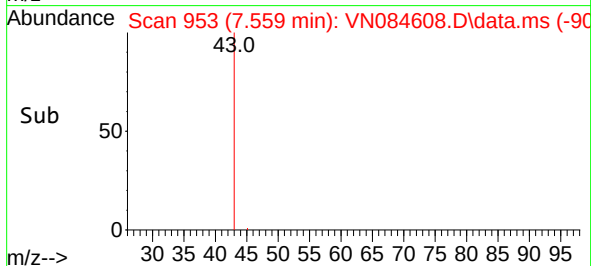
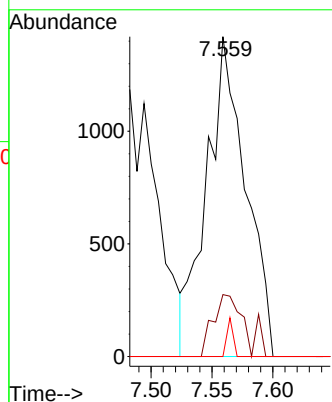
Tgt Ion: 43 Resp: 3176

Ion Ratio Lower Upper

43 100

61 15.8 10.7 16.1

70 1.9 8.8 13.2#



#38

Carbon Tetrachloride

Concen: 5.703 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN084608.D

Acq: 31 Oct 2024 08:10

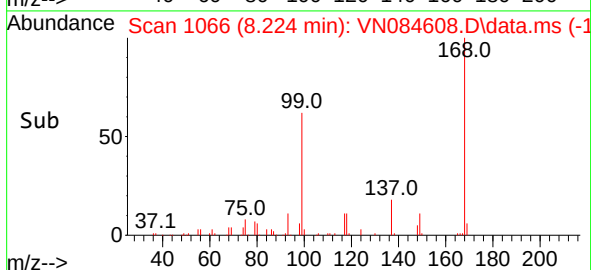
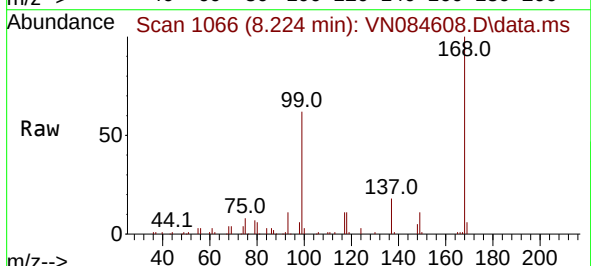
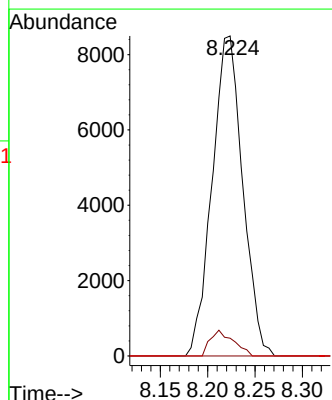
Tgt Ion: 117 Resp: 19078

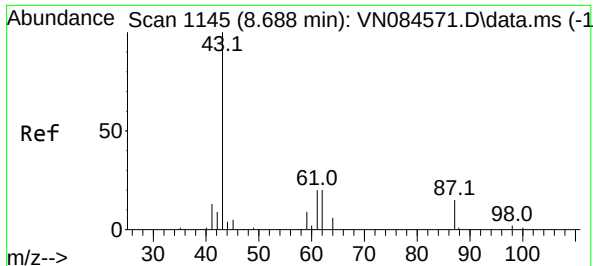
Ion Ratio Lower Upper

117 100

119 5.5 78.7 118.1#

121 0.0 24.4 36.6#

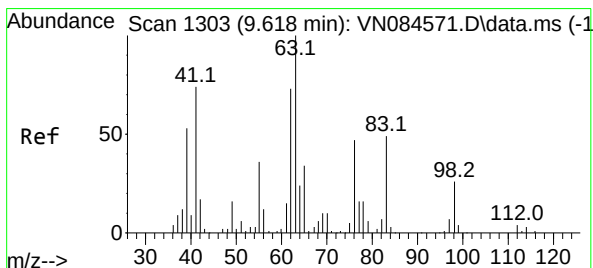
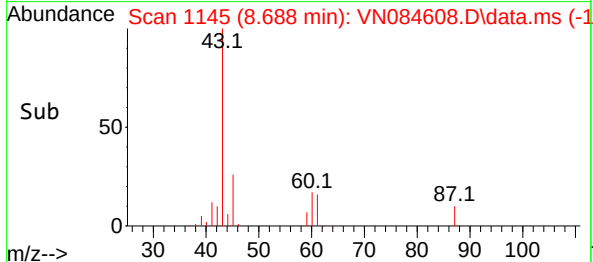
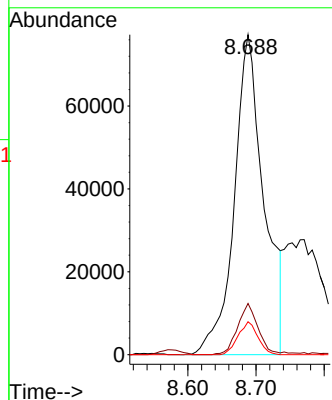
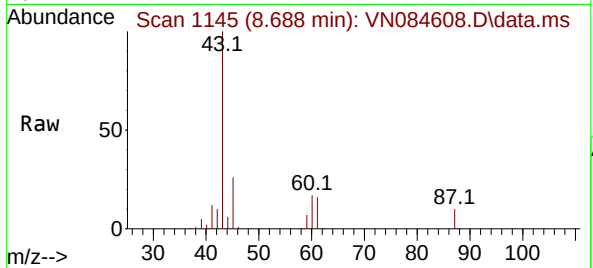




#43
Isopropyl Acetate
Concen: 46.273 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN084608.D
Acq: 31 Oct 2024 08:10

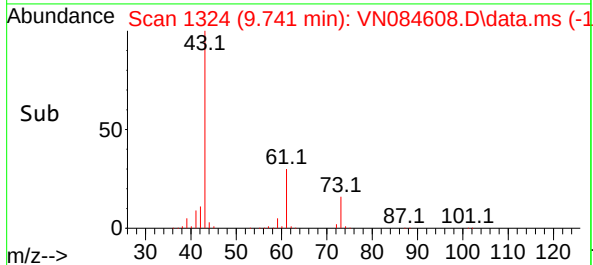
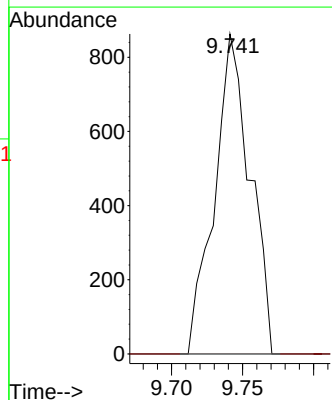
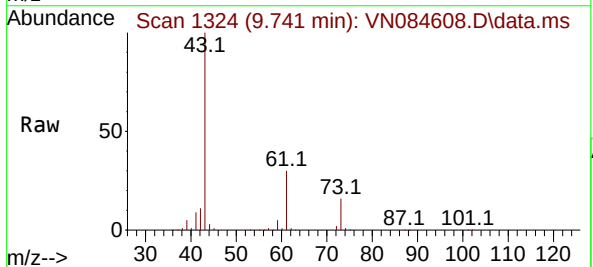
Instrument :
MSVOA_N
ClientSampleId :

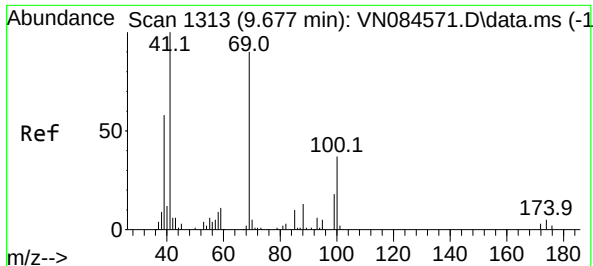
Tgt Ion: 43 Resp: 232513
Ion Ratio Lower Upper
43 100
61 11.3 20.4 30.6#
87 6.9 10.3 15.5#



#45
1,2-Dichloropropane
Concen: 0.669 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.123 min
Lab File: VN084608.D
Acq: 31 Oct 2024 08:10

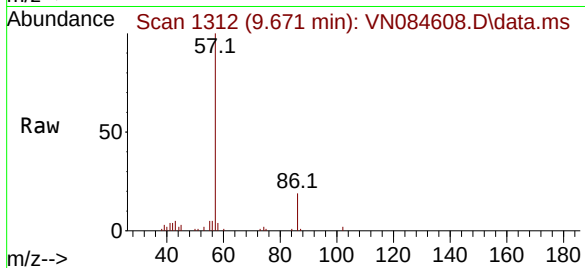
Tgt Ion: 63 Resp: 1508
Ion Ratio Lower Upper
63 100
65 0.0 24.6 37.0#



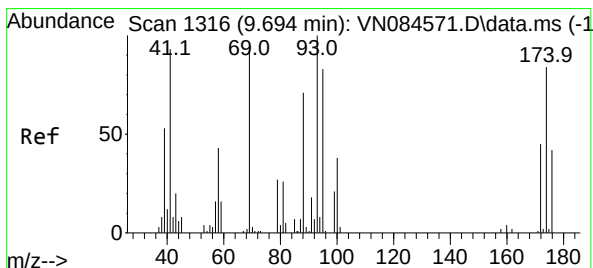
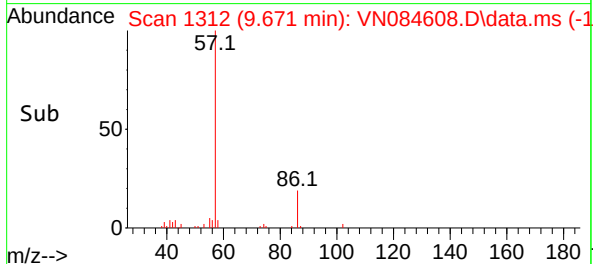
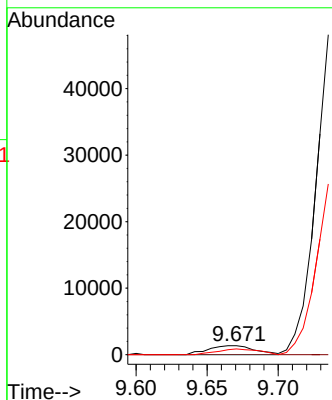


#48
Methyl methacrylate
Concen: 1.461 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.006 min
Lab File: VN084608.D
Acq: 31 Oct 2024 08:10

Instrument :
MSVOA_N
ClientSampleId :

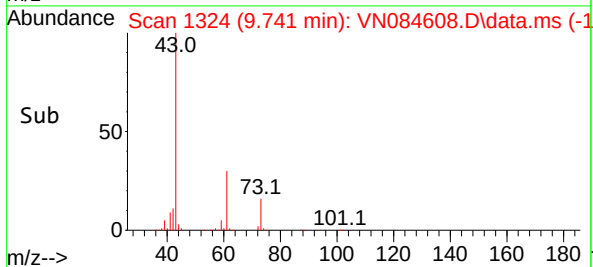
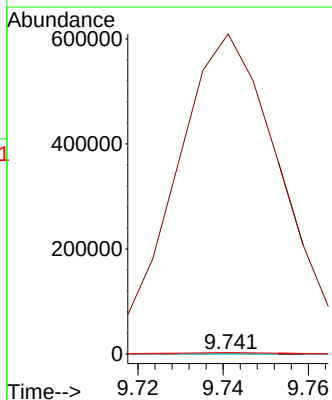
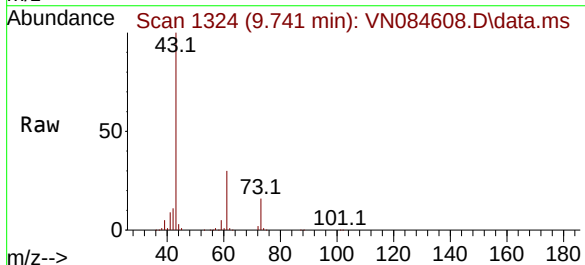


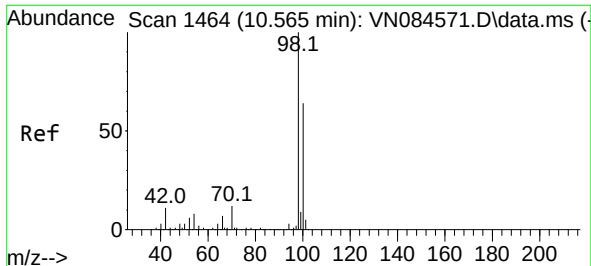
Tgt Ion: 41 Resp: 3087
Ion Ratio Lower Upper
41 100
69 0.0 67.1 100.7#
39 56.8 45.8 68.6



#49
1,4-Dioxane
Concen: 2.403 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.047 min
Lab File: VN084608.D
Acq: 31 Oct 2024 08:10

Tgt Ion: 88 Resp: 90
Ion Ratio Lower Upper
88 100
43 1191061.1 25.3 37.9#
58 5385.6 56.4 84.6#

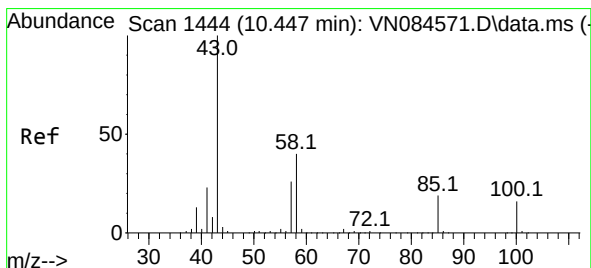
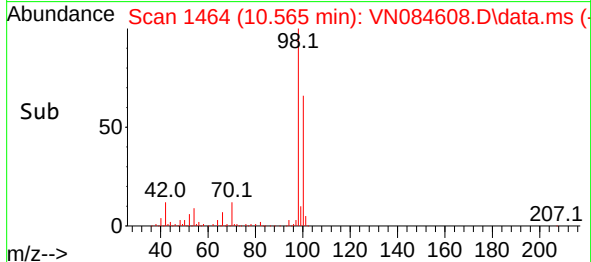
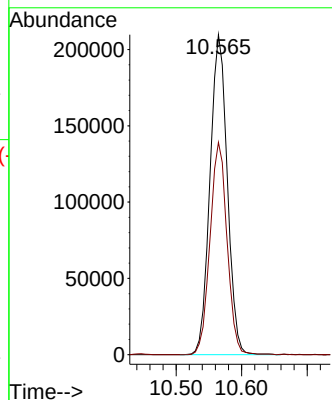
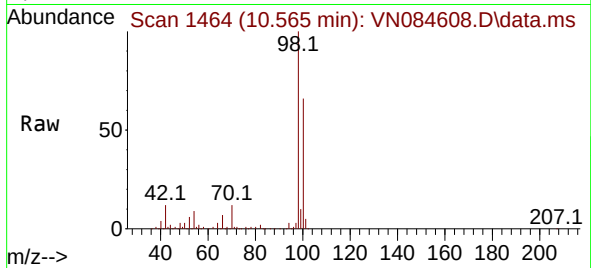




#50
Toluene-d8
Concen: 48.297 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN084608.D
Acq: 31 Oct 2024 08:10

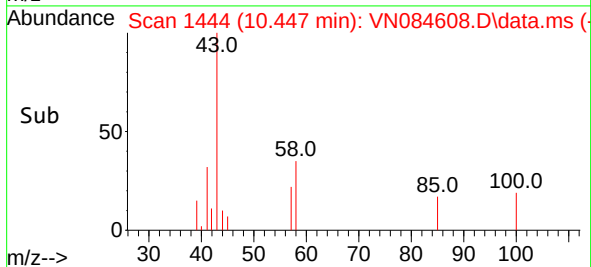
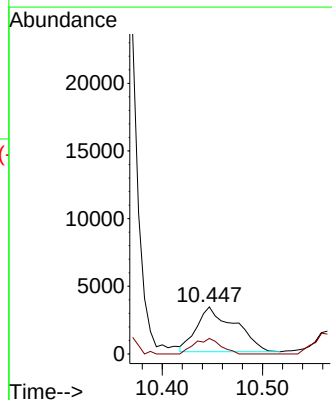
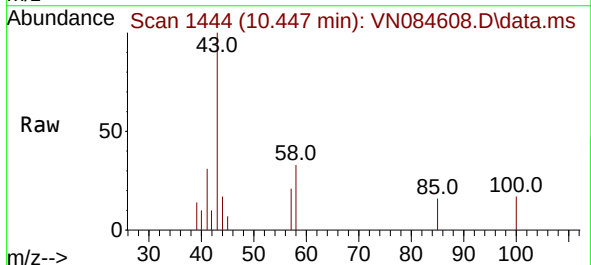
Instrument :
MSVOA_N
ClientSampleId :

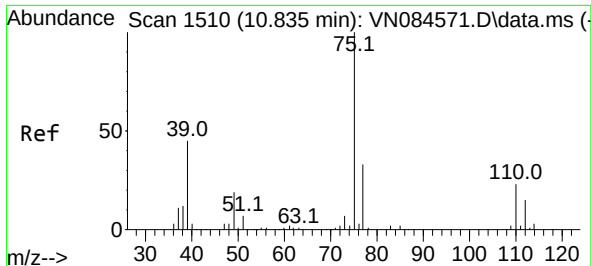
Tgt Ion: 98 Resp: 383967
Ion Ratio Lower Upper
98 100
100 65.3 52.7 79.1



#51
4-Methyl-2-Pentanone
Concen: 3.406 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN084608.D
Acq: 31 Oct 2024 08:10

Tgt Ion: 43 Resp: 8818
Ion Ratio Lower Upper
43 100
58 23.8 31.6 47.4#

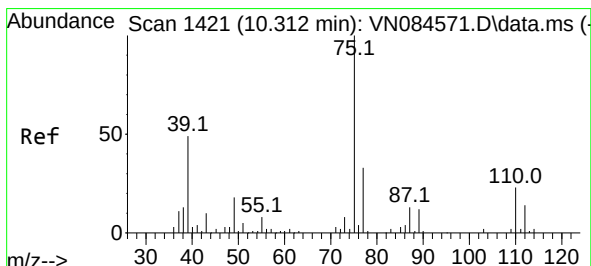
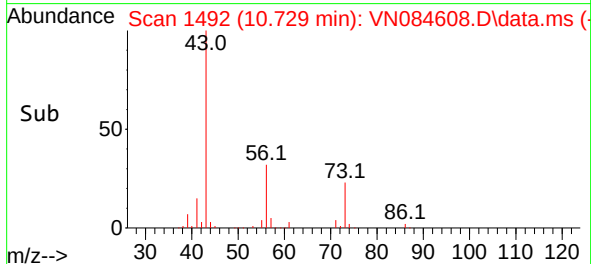
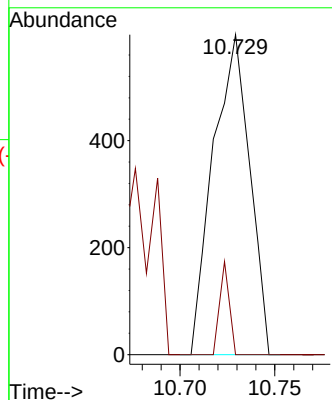
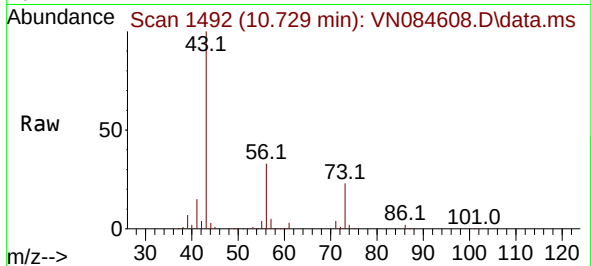




#53
 t-1,3-Dichloropropene
 Concen: 0.231 ug/l
 RT: 10.729 min Scan# 1492
 Delta R.T. -0.106 min
 Lab File: VN084608.D
 Acq: 31 Oct 2024 08:10

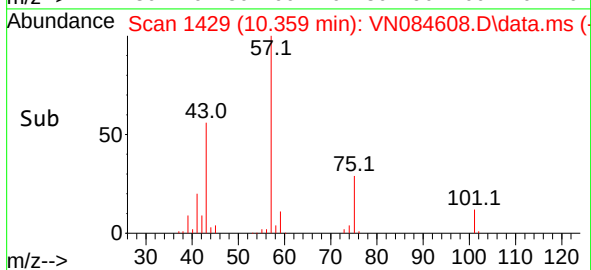
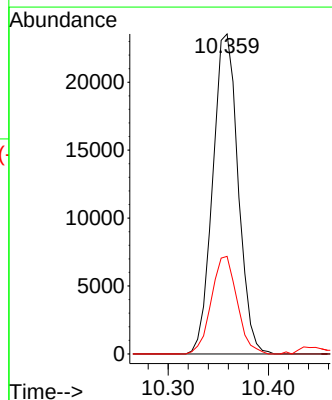
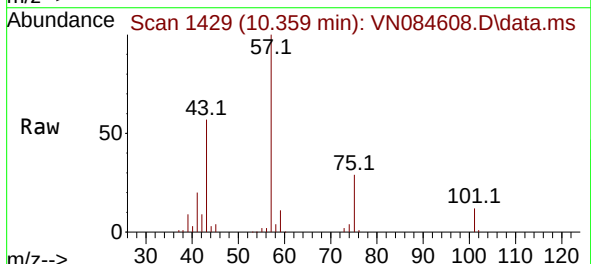
Instrument :
 MSVOA_N
 ClientSampleId :

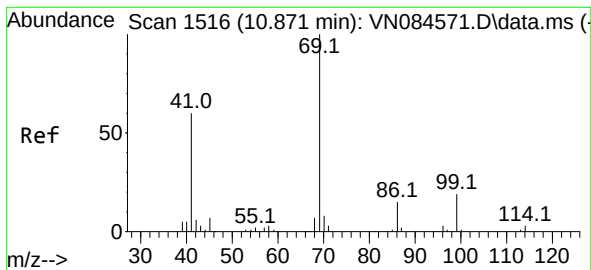
Tgt Ion: 75 Resp: 803
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#



#54
 cis-1,3-Dichloropropene
 Concen: 11.266 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN084608.D
 Acq: 31 Oct 2024 08:10

Tgt Ion: 75 Resp: 41397
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.2 36.2#
 39 30.5 38.7 58.1#

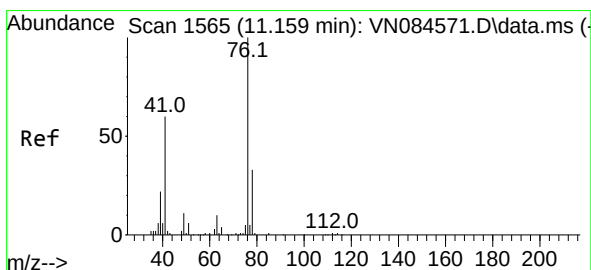
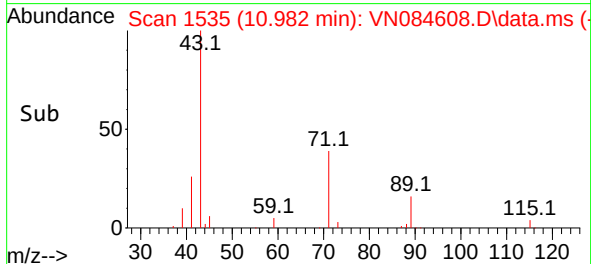
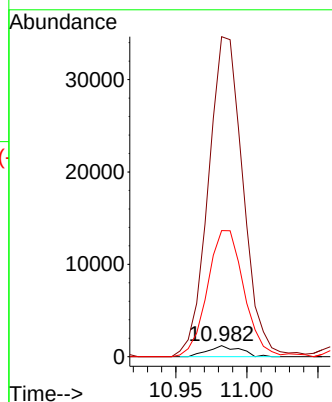
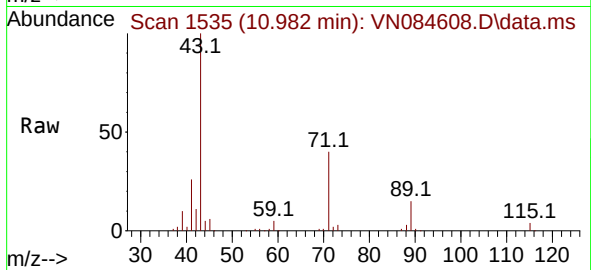




#56
Ethyl methacrylate
Concen: 0.610 ug/l
RT: 10.982 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN084608.D
Acq: 31 Oct 2024 08:10

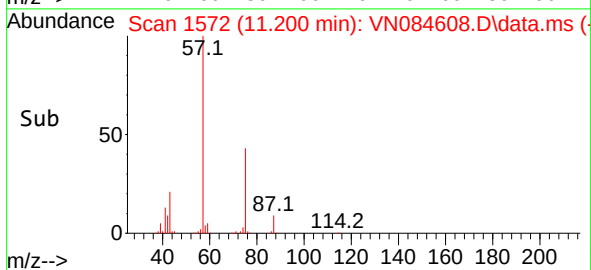
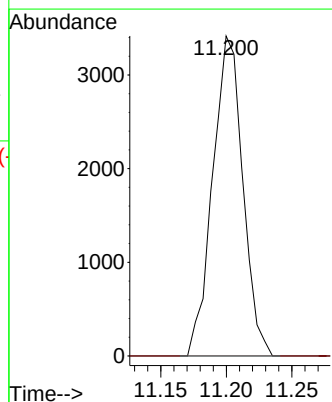
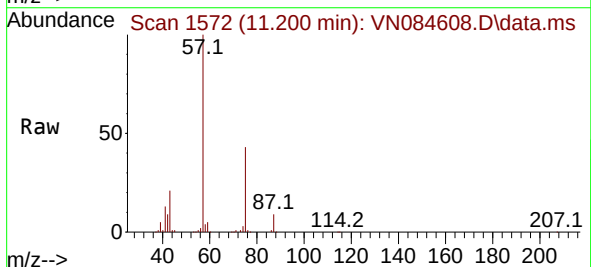
Instrument :
MSVOA_N
ClientSampleId :

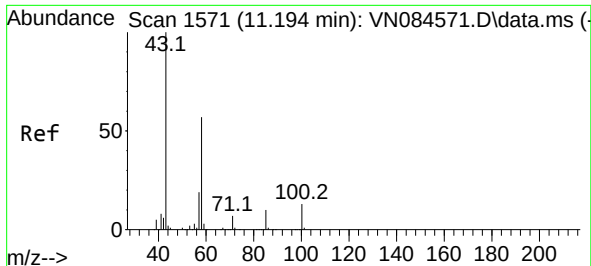
Tgt Ion: 69 Resp: 1869
Ion Ratio Lower Upper
69 100
41 3156.2 53.3 79.9#
39 1315.1 28.8 43.2#



#57
1,3-Dichloropropane
Concen: 1.501 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN084608.D
Acq: 31 Oct 2024 08:10

Tgt Ion: 76 Resp: 5454
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

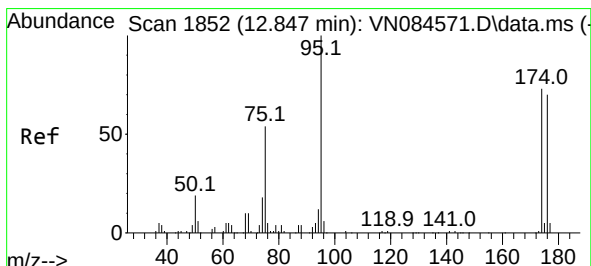
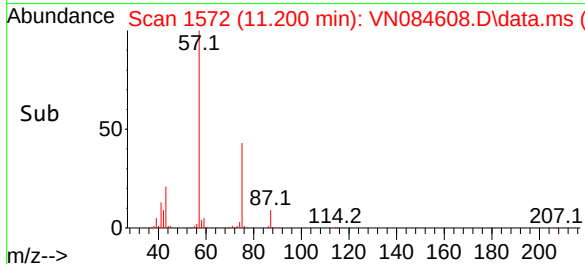
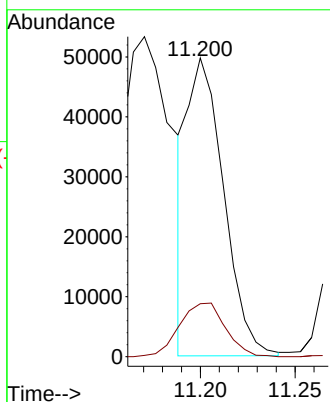
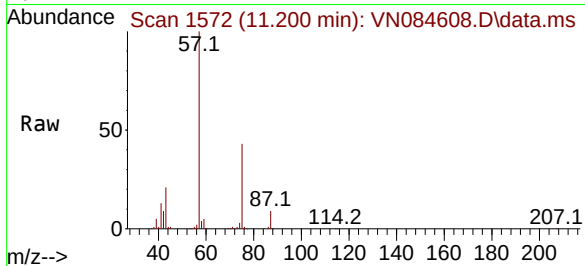




#59
2-Hexanone
Concen: 35.438 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN084608.D
Acq: 31 Oct 2024 08:10

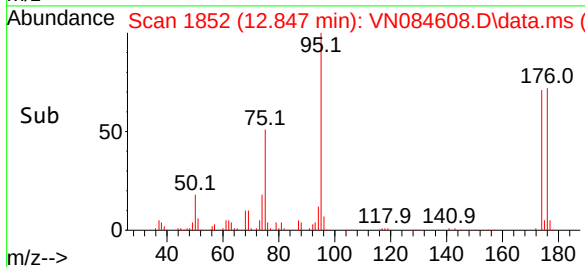
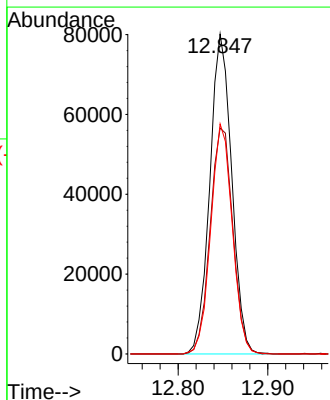
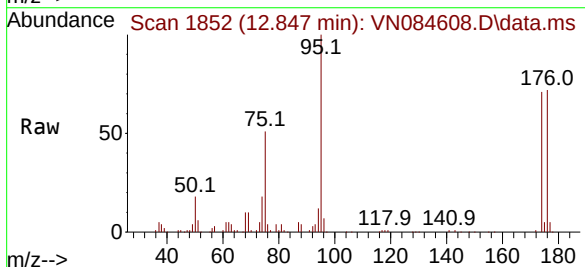
Instrument :
MSVOA_N
ClientSampleId :

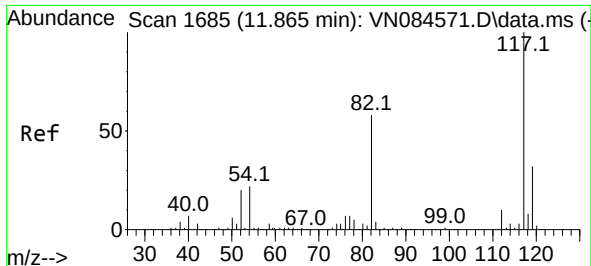
Tgt Ion: 43 Resp: 66778
Ion Ratio Lower Upper
43 100
58 22.7 27.3 81.8#



#62
4-Bromofluorobenzene
Concen: 45.689 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084608.D
Acq: 31 Oct 2024 08:10

Tgt Ion: 95 Resp: 135752
Ion Ratio Lower Upper
95 100
174 73.3 0.0 145.2
176 70.8 0.0 140.0

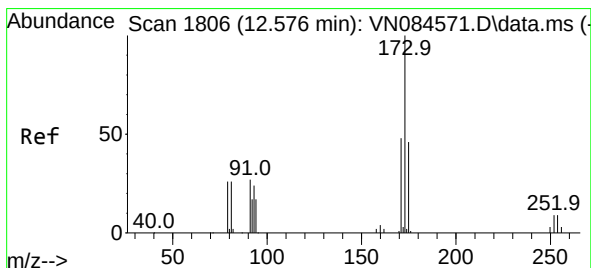
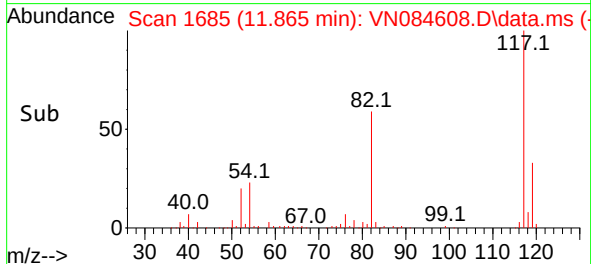
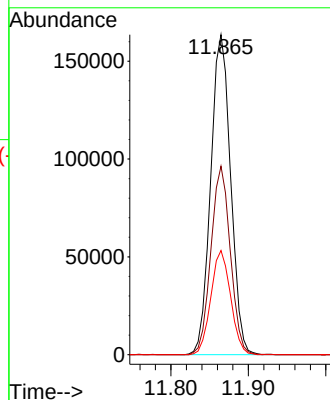
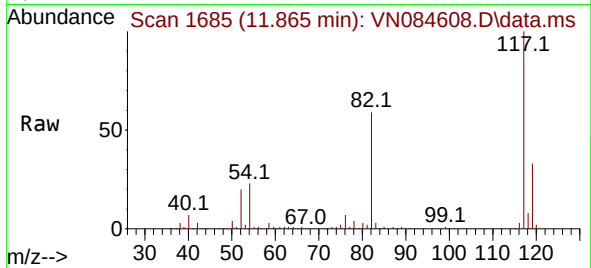




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN084608.D
Acq: 31 Oct 2024 08:10

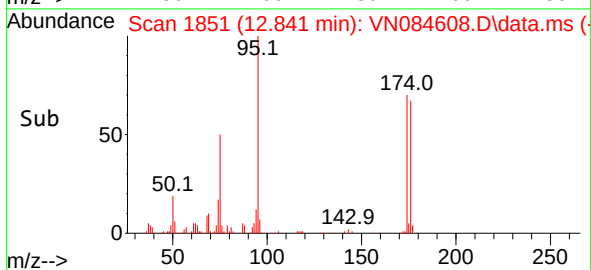
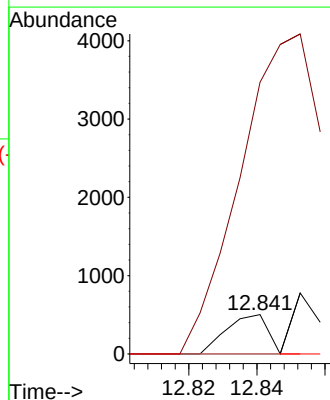
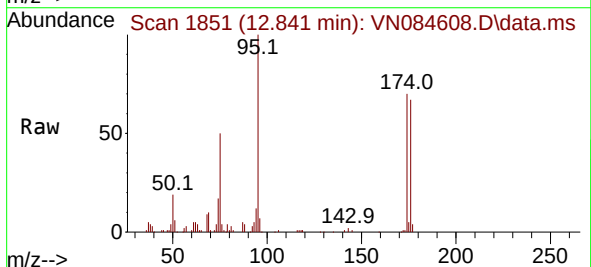
Instrument :
MSVOA_N
ClientSampleId :

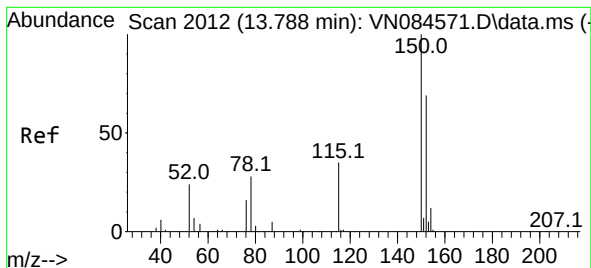
Tgt Ion:117 Resp: 293436
Ion Ratio Lower Upper
117 100
82 58.9 47.2 70.8
119 32.6 25.4 38.0



#71
Bromoform
Concen: 0.246 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.265 min
Lab File: VN084608.D
Acq: 31 Oct 2024 08:10

Tgt Ion:173 Resp: 423
Ion Ratio Lower Upper
173 100
175 0.0 23.5 70.6#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

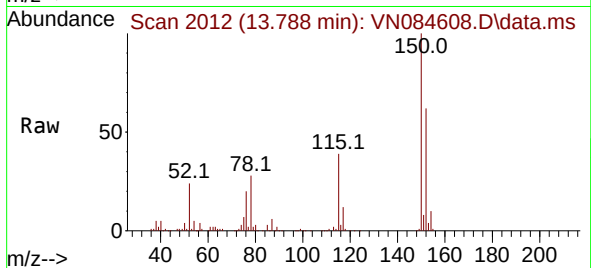
Lab File: VN084608.D

Acq: 31 Oct 2024 08:10

Instrument :

MSVOA_N

ClientSampleId :



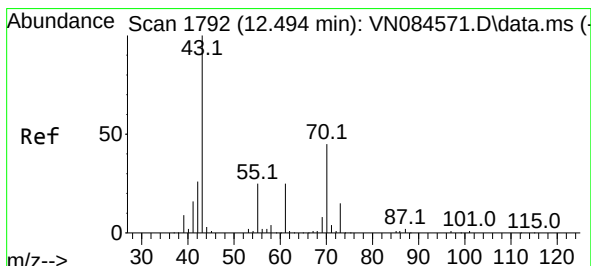
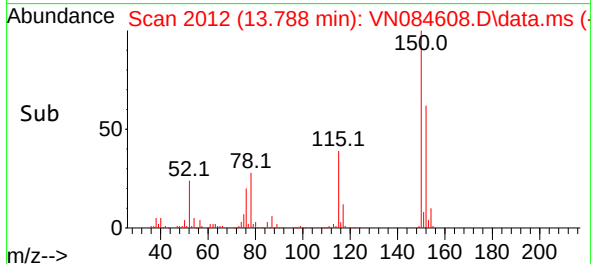
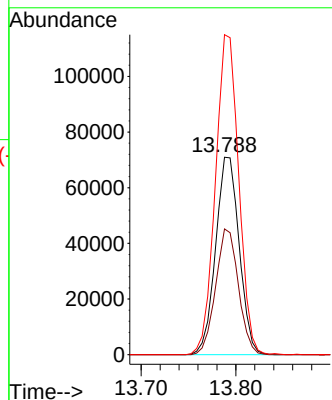
Tgt Ion:152 Resp: 122786

Ion Ratio Lower Upper

152 100

115 61.5 31.3 93.9

150 160.2 0.0 349.8



#74

N-ethyl acetate

Concen: 0.479 ug/l

RT: 12.494 min Scan# 1792

Delta R.T. -0.000 min

Lab File: VN084608.D

Acq: 31 Oct 2024 08:10

Tgt Ion: 43 Resp: 1755

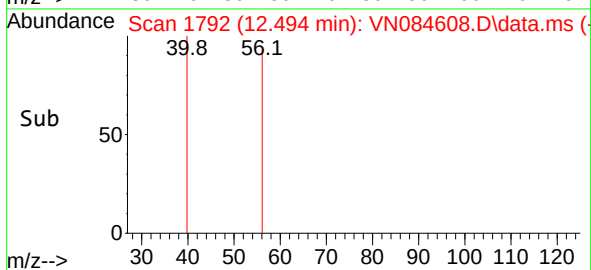
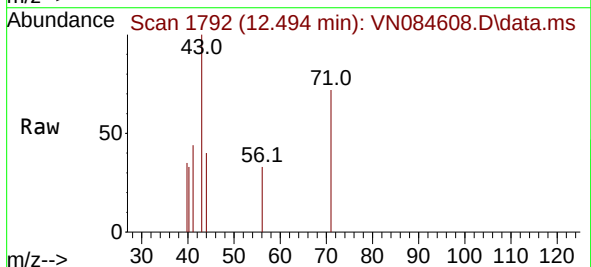
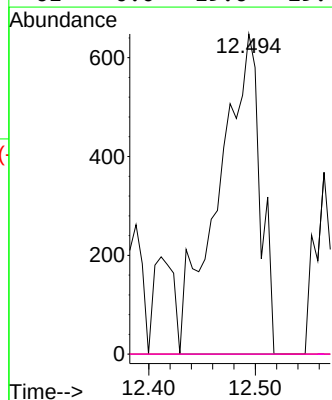
Ion Ratio Lower Upper

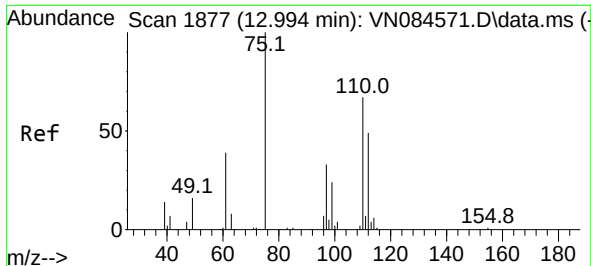
43 100

70 0.0 34.4 51.6#

55 0.0 19.6 29.4#

61 0.0 19.6 29.4#

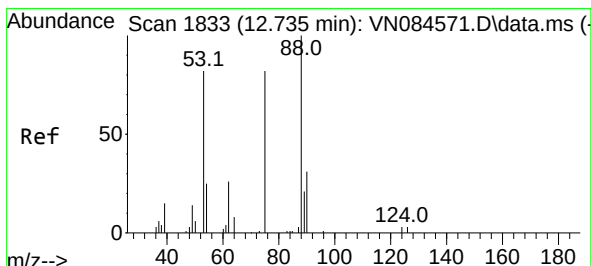
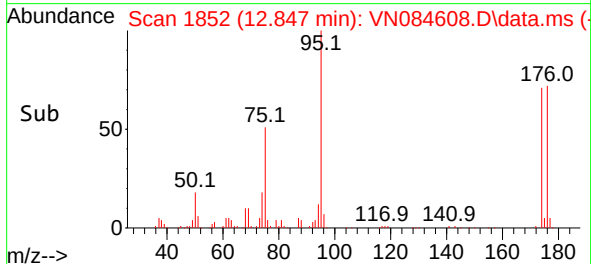
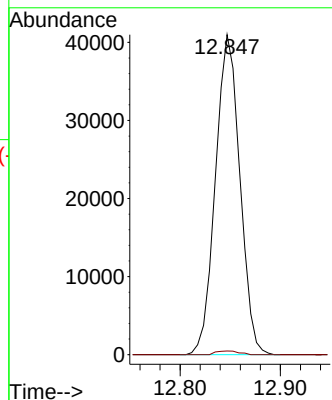
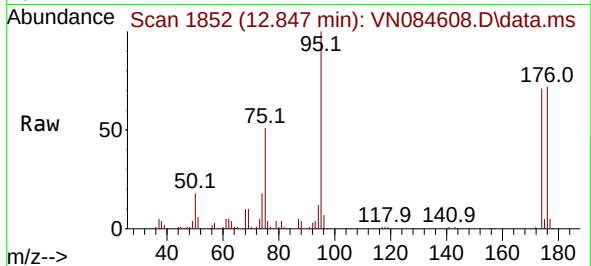




#76
1,2,3-Trichloropropane
Concen: 28.240 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN084608.D
Acq: 31 Oct 2024 08:10

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 69313
Ion Ratio Lower Upper
75 100
77 1.1 96.9 290.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 66.996 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084608.D
Acq: 31 Oct 2024 08:10

Tgt Ion: 75 Resp: 69313
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 35.5 53.3#

