

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081921\
 Data File : VN068220.D
 Acq On : 19 Aug 2021 16:39
 Operator : JC/MD
 Sample : M3449-08
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 20 01:54:54 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081721W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 17 13:09:49 2021
 Response via : Initial Calibration

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

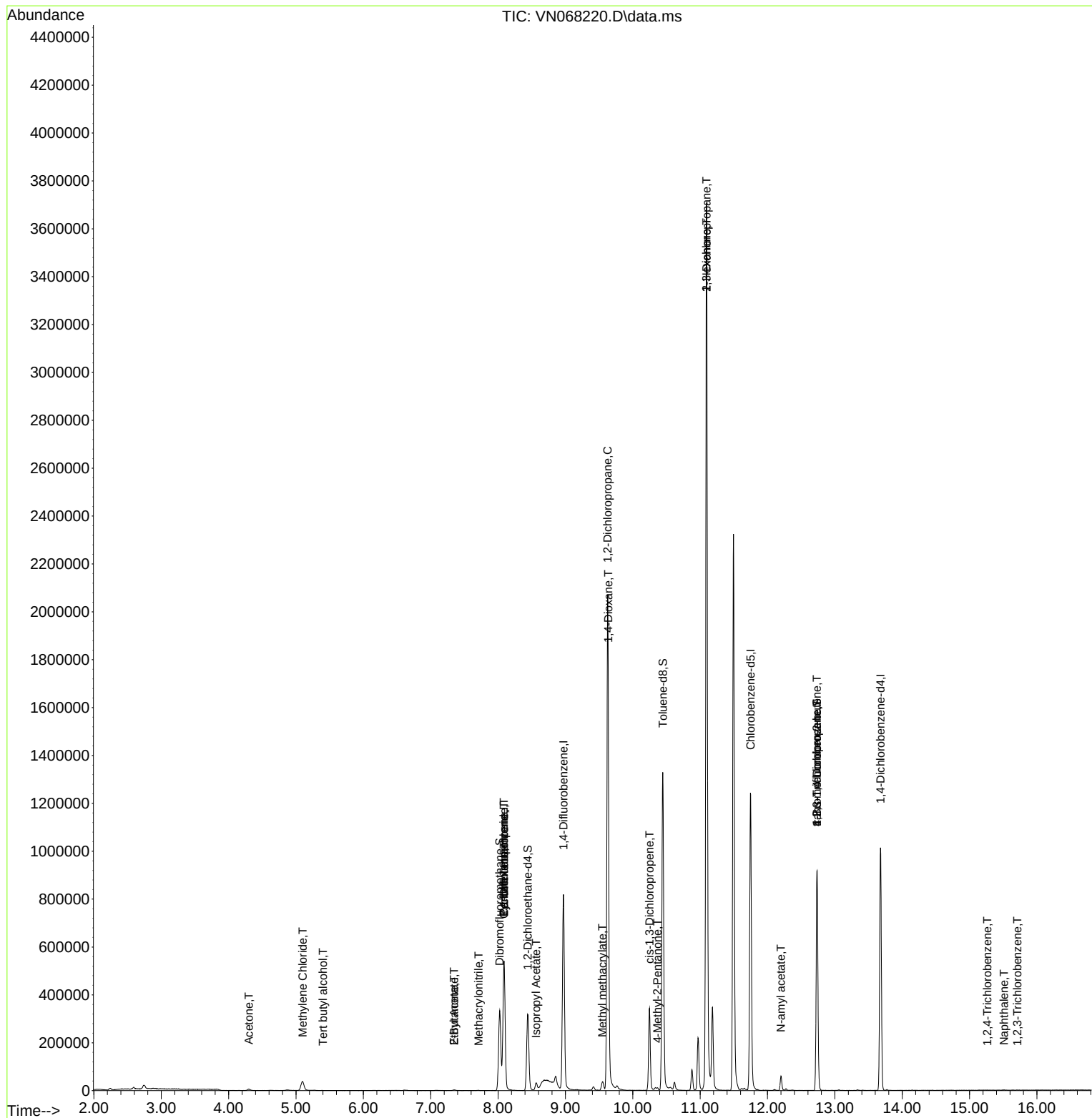
Internal Standards						
1) Pentafluorobenzene	8.088	168	454333	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.971	114	778096	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.749	117	811754	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	305377	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	271579	55.984	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 111.960%			
35) Dibromofluoromethane	8.024	113	243844	49.916	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 99.840%			
50) Toluene-d8	10.446	98	989685	53.169	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 106.340%			
62) 4-Bromofluorobenzene	12.734	95	314022	50.677	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 101.360%			
Target Compounds						
					Qvalue	
5) Bromomethane	2.821	94	147	Below Cal	#	4
6) Chloroethane	2.995	64	55	Below Cal	#	44
11) Tert butyl alcohol	5.398	59	266	0.440	ug/l #	71
13) Acrolein	4.031	56	26	Below Cal	#	14
16) Acetone	4.299	43	11880	8.388	ug/l	95
18) Methyl Acetate	4.862	43	2808	Below Cal	#	87
20) Methylene Chloride	5.098	84	32887	6.545	ug/l #	82
25) 2-Butanone	7.345	43	2133	0.966	ug/l	99
31) Cyclohexane	8.086	56	7886	1.234	ug/l #	24
36) 1,1-Dichloropropene	8.088	75	30448	4.787	ug/l #	52
37) Ethyl Acetate	7.345	43	2133	0.394	ug/l #	69
38) Carbon Tetrachloride	8.088	117	43118	5.877	ug/l #	17
41) Methacrylonitrile	7.710	41	530	0.214	ug/l #	27
43) Isopropyl Acetate	8.566	43	35590	4.100	ug/l #	94
45) 1,2-Dichloropropane	9.625	63	2563	0.561	ug/l #	44
48) Methyl methacrylate	9.550	41	8819	2.438	ug/l #	12
49) 1,4-Dioxane	9.636	88	27	0.309	ug/l #	1
51) 4-Methyl-2-Pentanone	10.365	43	14580	2.734	ug/l #	39
54) cis-1,3-Dichloropropene	10.247	75	66211	8.988	ug/l #	53
57) 1,3-Dichloropropane	11.095	76	42100	5.168	ug/l #	43
59) 2-Hexanone	11.095	43	524442	141.654	ug/l #	57
74) N-amyl acetate	12.197	43	17484	3.092	ug/l #	58
76) 1,2,3-Trichloropropane	12.734	75	159845	31.492	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.734	75	159845	103.174	ug/l #	6
93) 1,2,4-Trichlorobenzene	15.265	180	229	2.728	ug/l #	40
95) Naphthalene	15.512	128	896	3.414	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.711	180	286	2.887	ug/l #	71

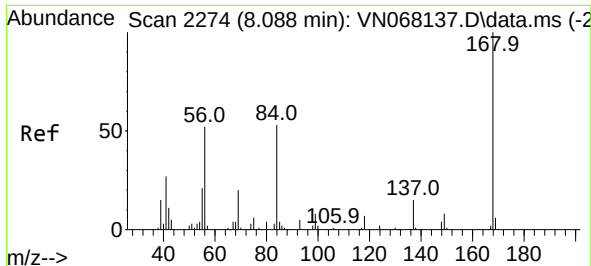
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Aug 20 01:54:54 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081721W.M
Quant Title : SW846 8260
QLast Update : Tue Aug 17 13:09:49 2021
Response via : Initial Calibration

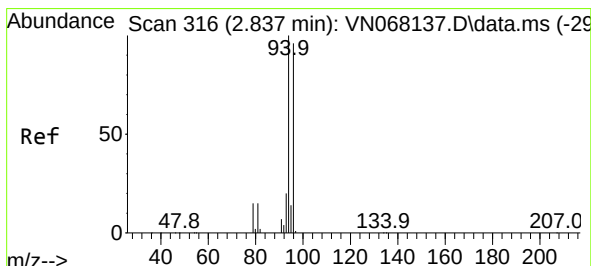
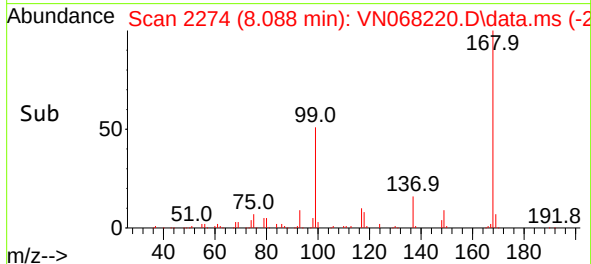
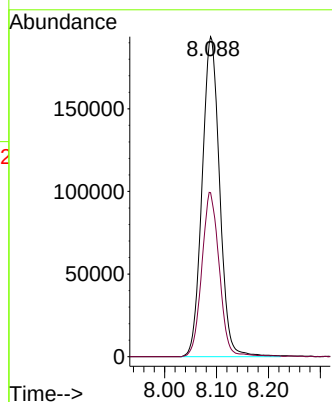
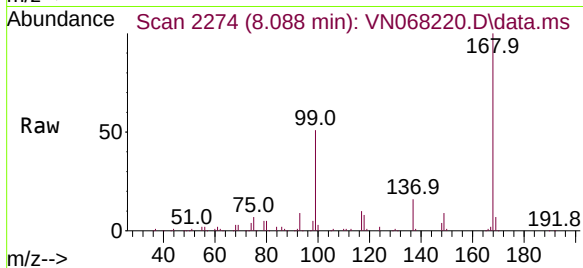




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. 0.000 min
Lab File: VN068220.D
Acq: 19 Aug 2021 16:39

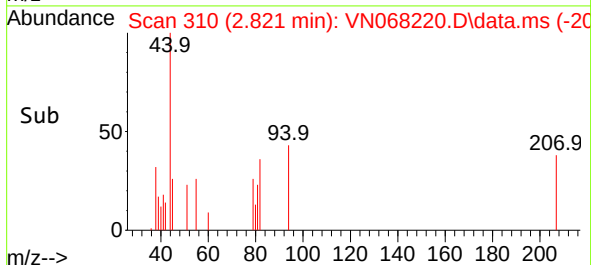
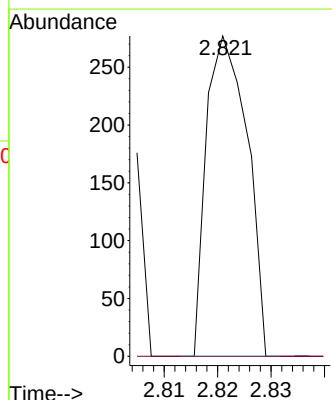
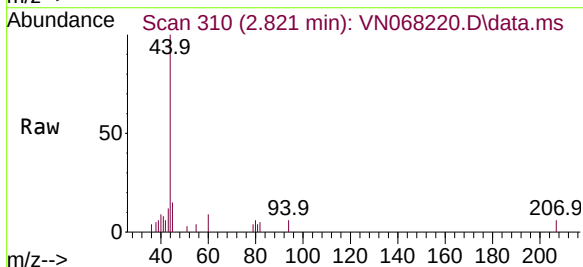
Instrument :
MSVOA_N
ClientSampled :

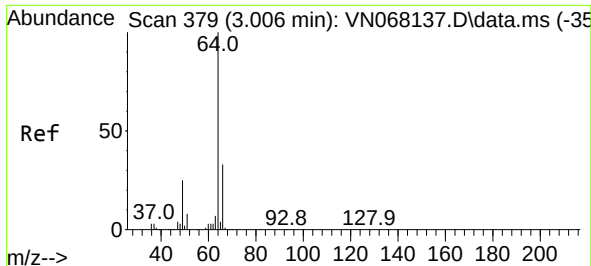
Tgt Ion:168 Resp: 454333
Ion Ratio Lower Upper
168 100
99 51.2 62.9 94.3#



#5
Bromomethane
Concen: Below Cal
RT: 2.821 min Scan# 310
Delta R.T. -0.016 min
Lab File: VN068220.D
Acq: 19 Aug 2021 16:39

Tgt Ion: 94 Resp: 147
Ion Ratio Lower Upper
94 100
96 0.0 73.7 110.5#

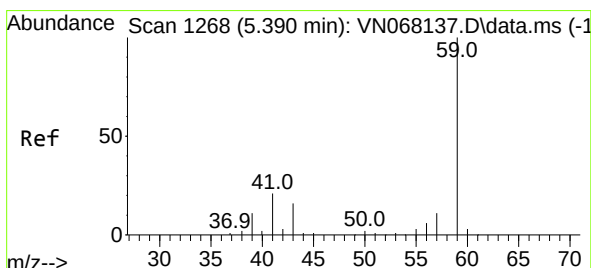
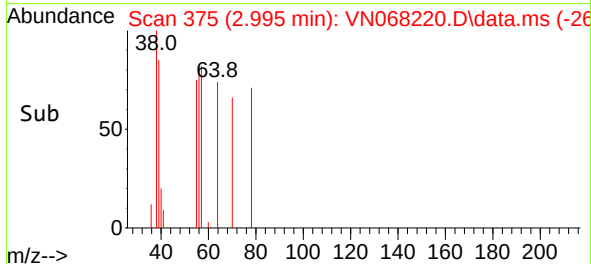
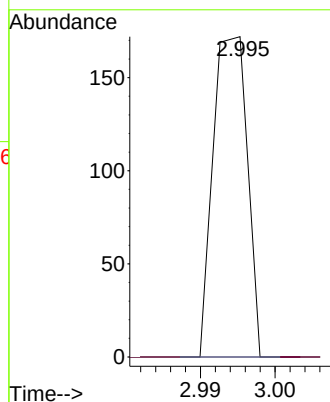
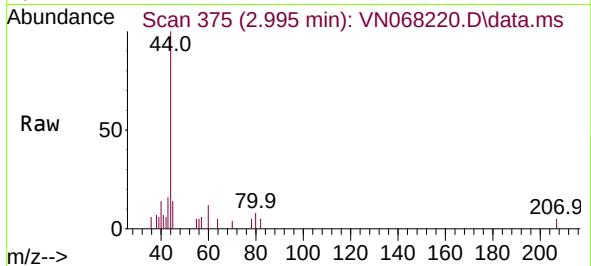




#6
Chloroethane
Concen: Below Cal
RT: 2.995 min Scan# 375
Delta R.T. -0.011 min
Lab File: VN068220.D
Acq: 19 Aug 2021 16:39

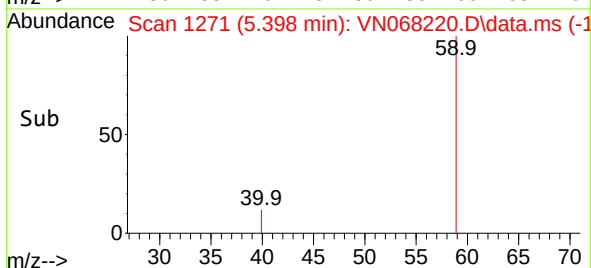
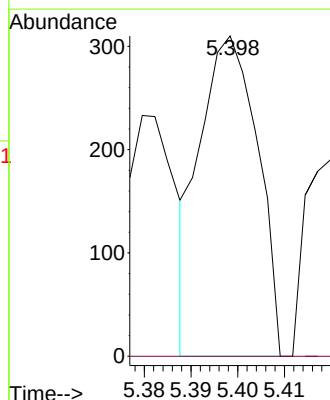
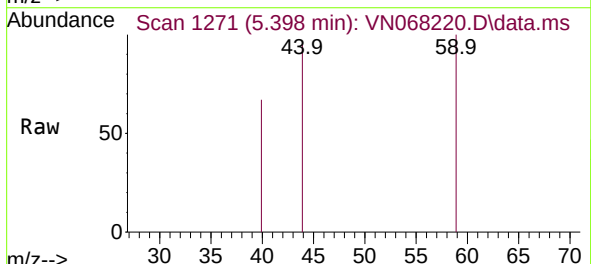
Instrument :
MSVOA_N
ClientSampled :

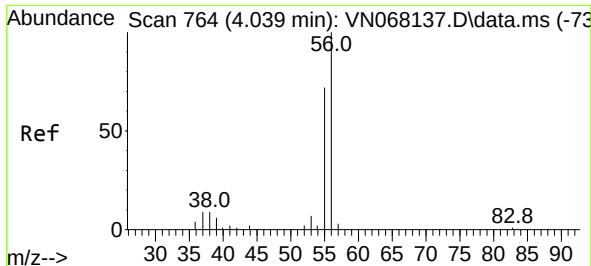
Tgt Ion: 64 Resp: 55
Ion Ratio Lower Upper
64 100
66 0.0 24.7 37.1#



#11
Tert butyl alcohol
Concen: 0.440 ug/l
RT: 5.398 min Scan# 1271
Delta R.T. 0.008 min
Lab File: VN068220.D
Acq: 19 Aug 2021 16:39

Tgt Ion: 59 Resp: 266
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

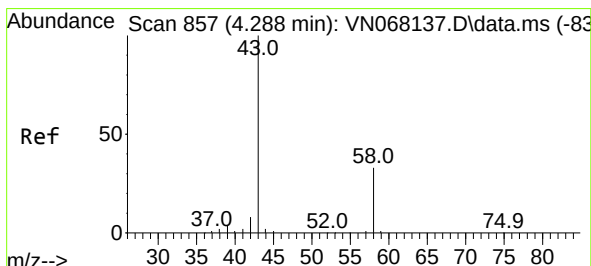
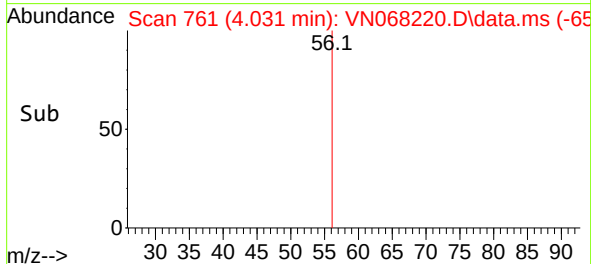
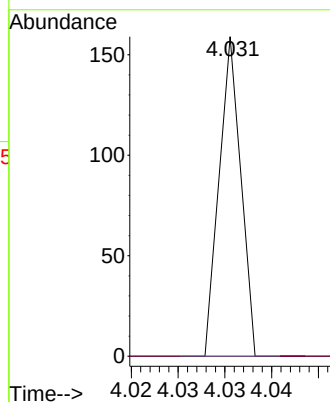
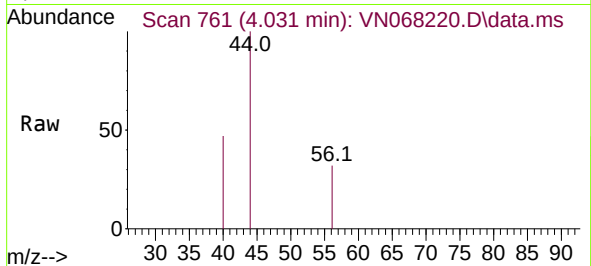




#13
Acrolein
Concen: Below Cal
RT: 4.031 min Scan# 761
Delta R.T. -0.008 min
Lab File: VN068220.D
Acq: 19 Aug 2021 16:39

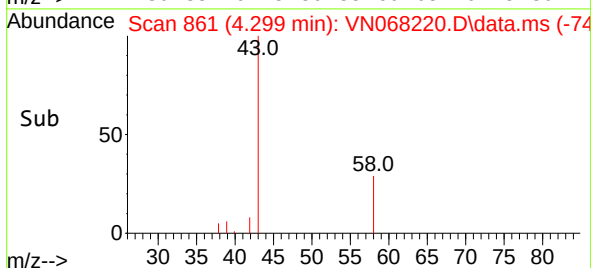
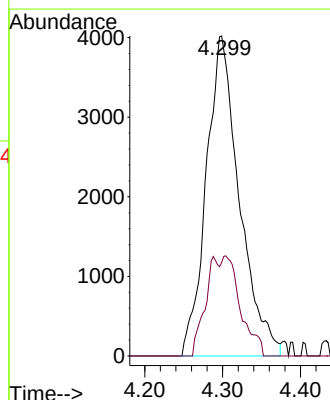
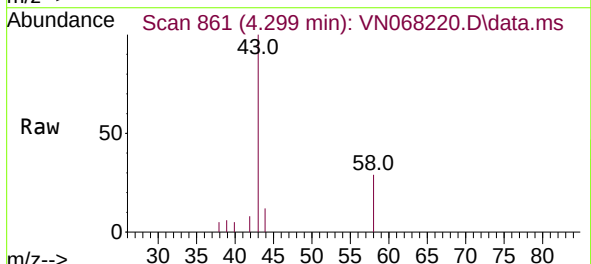
Instrument :
MSVOA_N
ClientSampled :

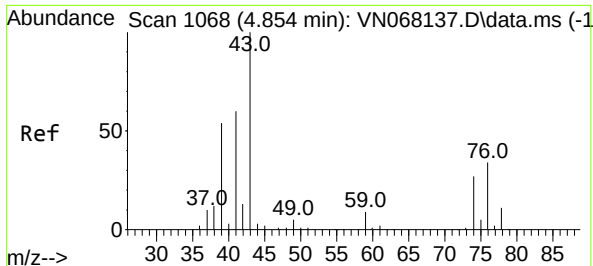
Tgt Ion: 56 Resp: 26
Ion Ratio Lower Upper
56 100
55 0.0 57.4 86.0#



#16
Acetone
Concen: 8.388 ug/l
RT: 4.299 min Scan# 861
Delta R.T. 0.011 min
Lab File: VN068220.D
Acq: 19 Aug 2021 16:39

Tgt Ion: 43 Resp: 11880
Ion Ratio Lower Upper
43 100
58 29.2 21.2 31.8

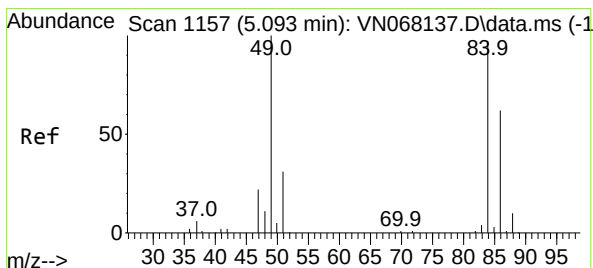
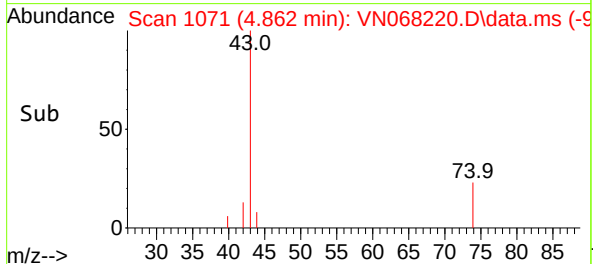
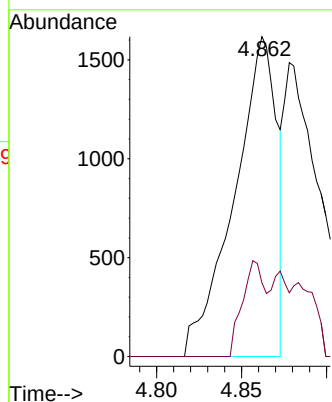
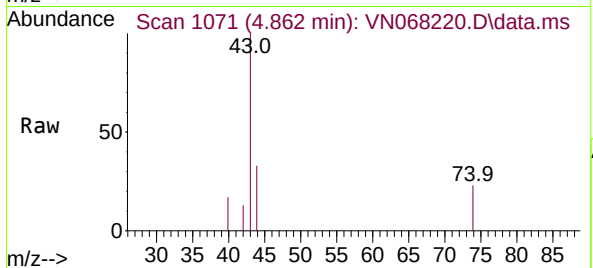




#18
Methyl Acetate
Concen: Below Cal
RT: 4.862 min Scan# 1071
Delta R.T. 0.008 min
Lab File: VN068220.D
Acq: 19 Aug 2021 16:39

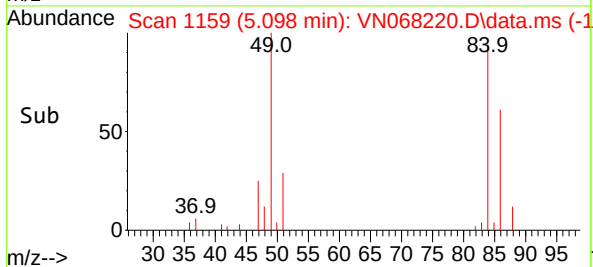
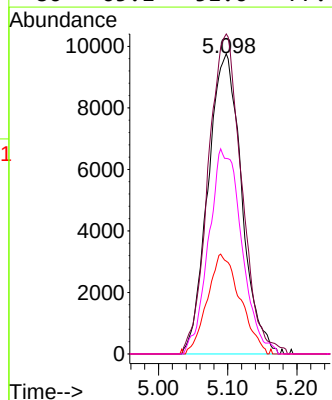
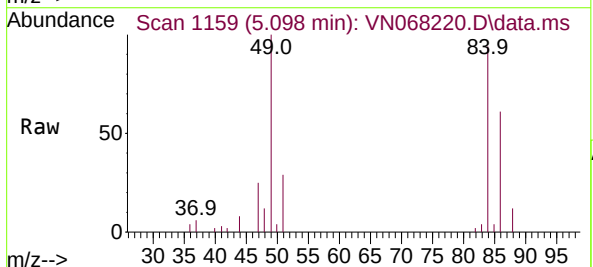
Instrument :
MSVOA_N
ClientSampled :

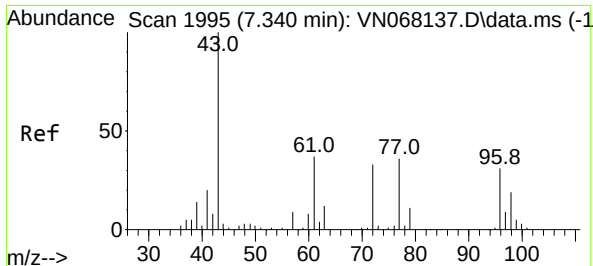
Tgt Ion: 43 Resp: 2808
Ion Ratio Lower Upper
43 100
74 15.6 17.4 26.0#



#20
Methylene Chloride
Concen: 6.545 ug/l
RT: 5.098 min Scan# 1159
Delta R.T. 0.005 min
Lab File: VN068220.D
Acq: 19 Aug 2021 16:39

Tgt Ion: 84 Resp: 32887
Ion Ratio Lower Upper
84 100
49 106.6 110.9 166.3#
51 30.9 32.6 49.0#
86 65.1 51.6 77.4





#25

2-Butanone

Concen: 0.966 ug/l

RT: 7.345 min Scan# 1997

Delta R.T. 0.005 min

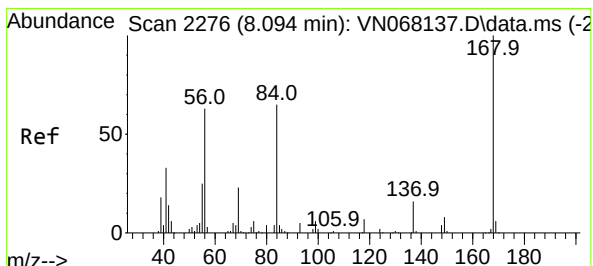
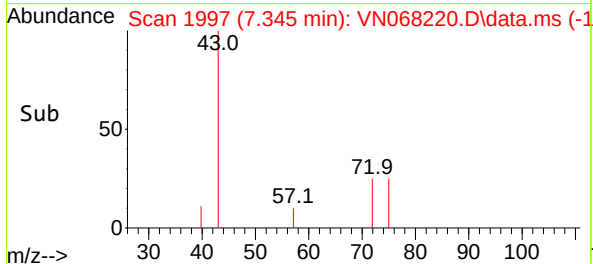
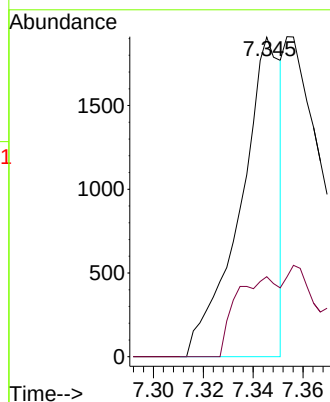
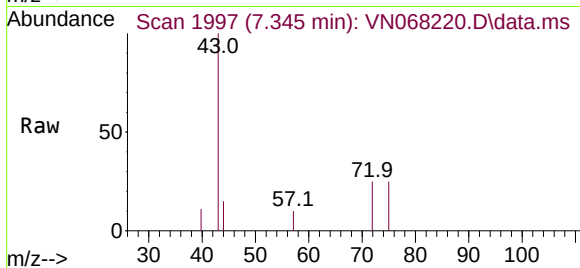
Lab File: VN068220.D

Acq: 19 Aug 2021 16:39

Tgt Ion: 43 Resp: 2133

Ion Ratio Lower Upper

43	100		
72	25.1	19.7	29.5



#31

Cyclohexane

Concen: 1.234 ug/l

RT: 8.086 min Scan# 2273

Delta R.T. -0.008 min

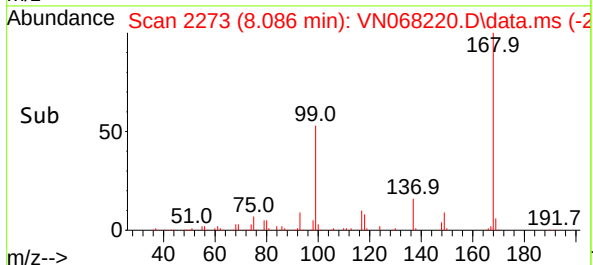
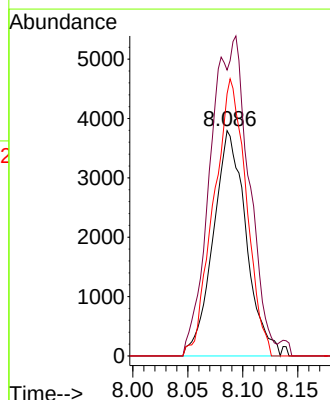
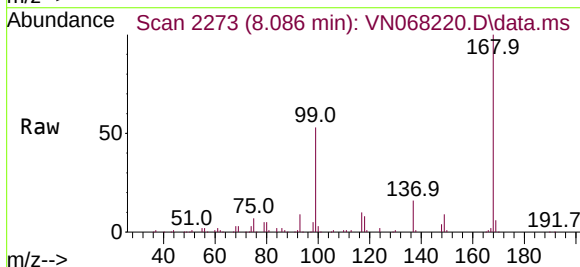
Lab File: VN068220.D

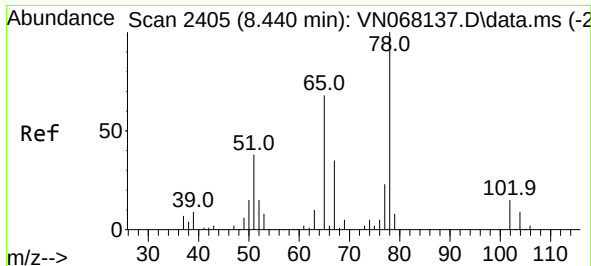
Acq: 19 Aug 2021 16:39

Tgt Ion: 56 Resp: 7886

Ion Ratio Lower Upper

56	100		
69	126.9	27.3	40.9#
84	116.4	64.9	97.3#

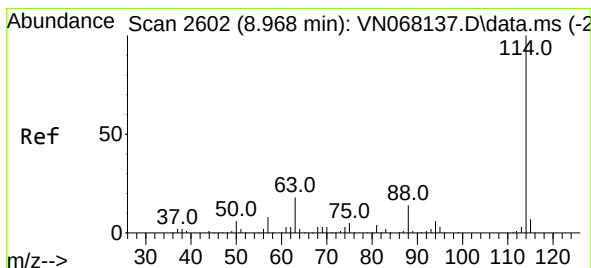
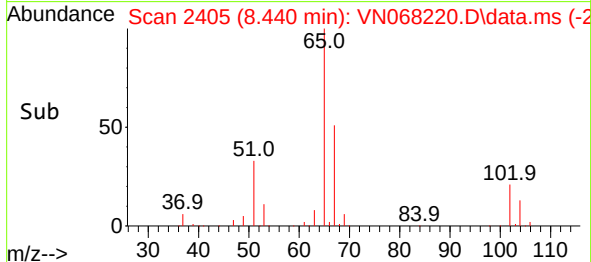
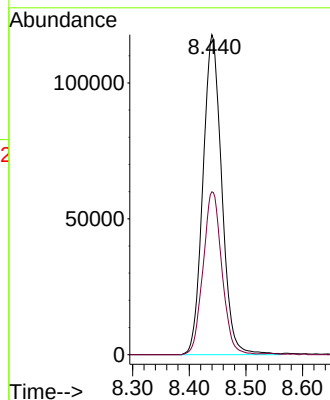
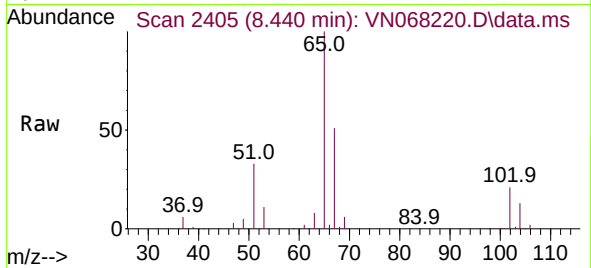




#33
1,2-Dichloroethane-d4
Concen: 55.984 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN068220.D
Acq: 19 Aug 2021 16:39

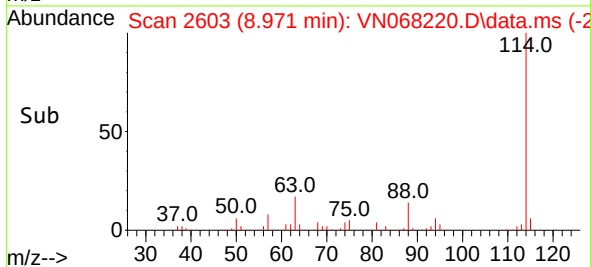
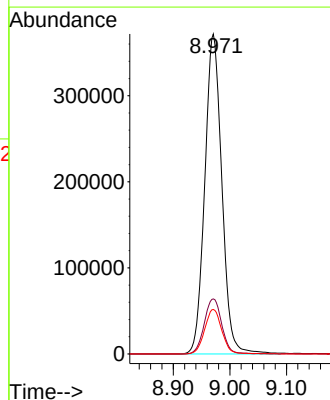
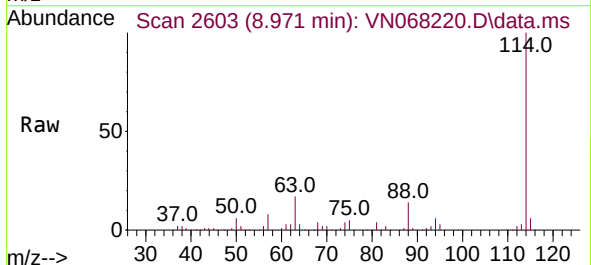
Instrument :
MSVOA_N
ClientSampled :

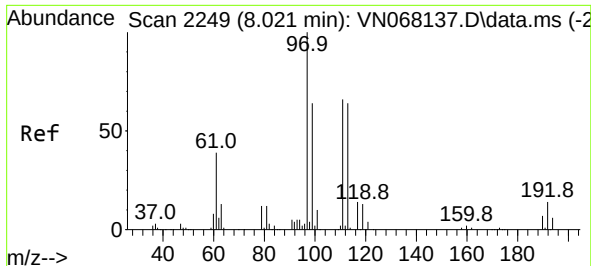
Tgt Ion: 65 Resp: 271579
Ion Ratio Lower Upper
65 100
67 51.0 0.0 98.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. 0.003 min
Lab File: VN068220.D
Acq: 19 Aug 2021 16:39

Tgt Ion: 114 Resp: 778096
Ion Ratio Lower Upper
114 100
63 17.2 0.0 49.0
88 13.9 0.0 36.6

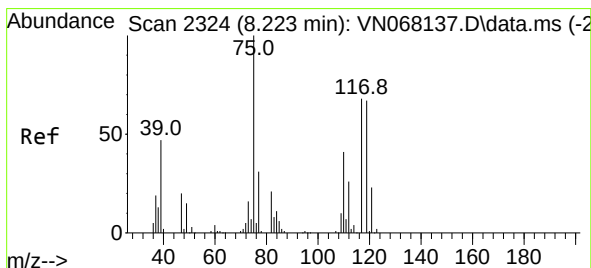
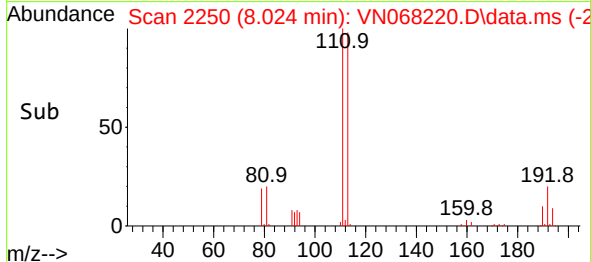
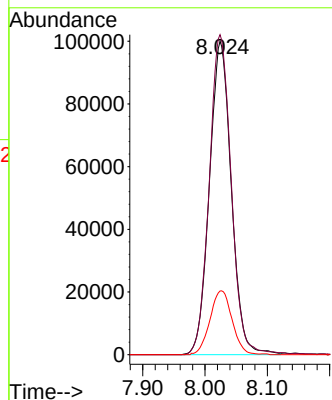
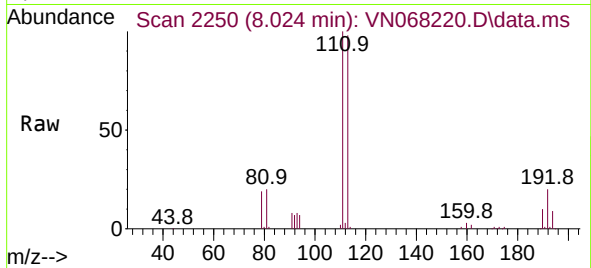




#35
Dibromofluoromethane
Concen: 49.916 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.003 min
Lab File: VN068220.D
Acq: 19 Aug 2021 16:39

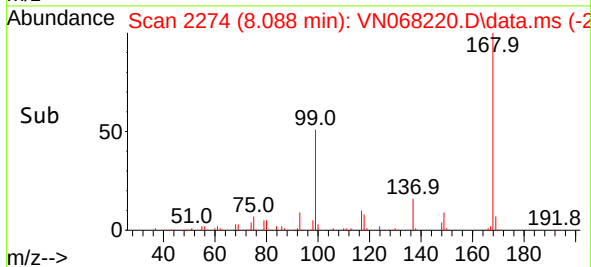
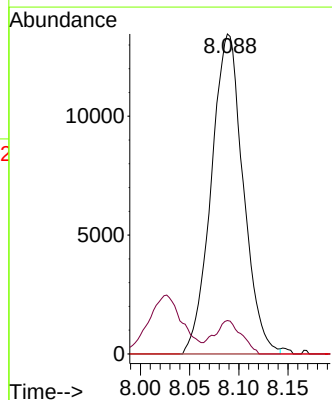
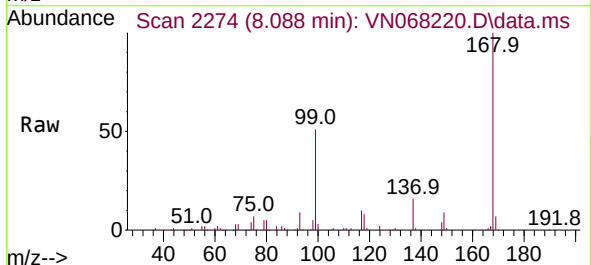
Instrument :
MSVOA_N
ClientSampled :

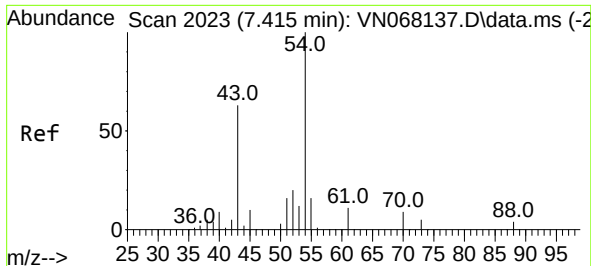
Tgt Ion:113 Resp: 243844
Ion Ratio Lower Upper
113 100
111 102.7 83.8 125.8
192 20.7 13.4 20.0#



#36
1,1-Dichloropropene
Concen: 4.787 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.135 min
Lab File: VN068220.D
Acq: 19 Aug 2021 16:39

Tgt Ion: 75 Resp: 30448
Ion Ratio Lower Upper
75 100
110 8.9 15.7 47.0#
77 0.0 24.6 37.0#

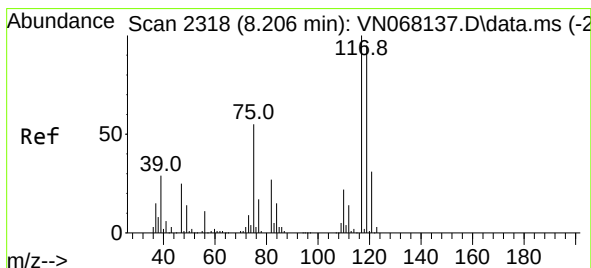
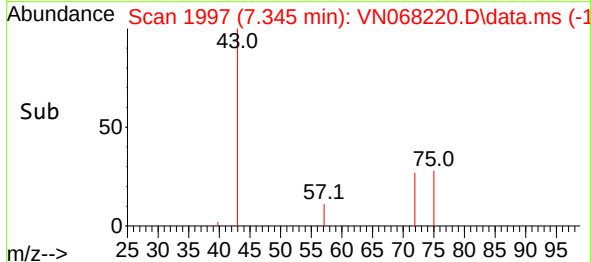
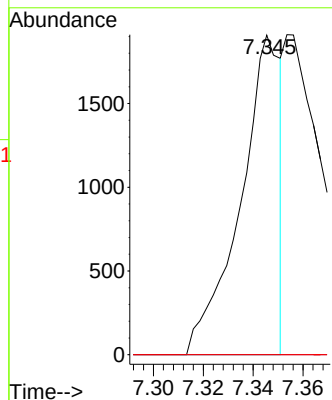
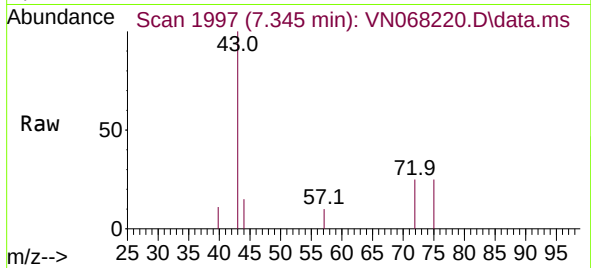




#37
Ethyl Acetate
Concen: 0.394 ug/l
RT: 7.345 min Scan# 1997
Delta R.T. -0.070 min
Lab File: VN068220.D
Acq: 19 Aug 2021 16:39

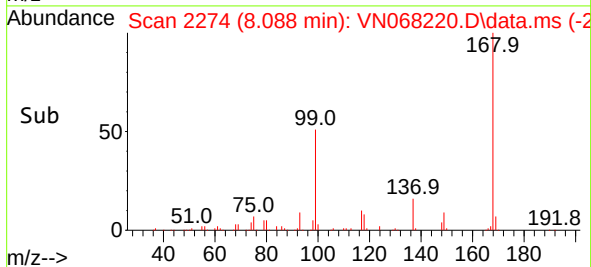
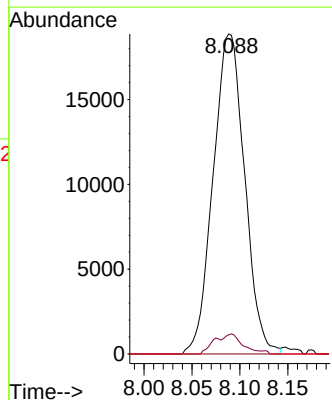
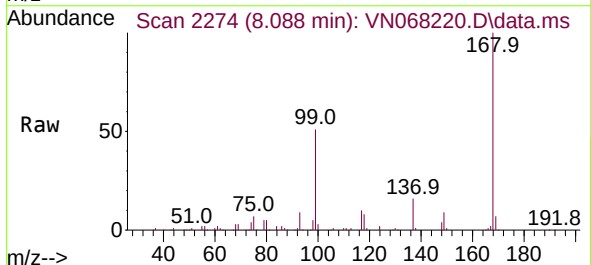
Instrument :
MSVOA_N
ClientSampled :

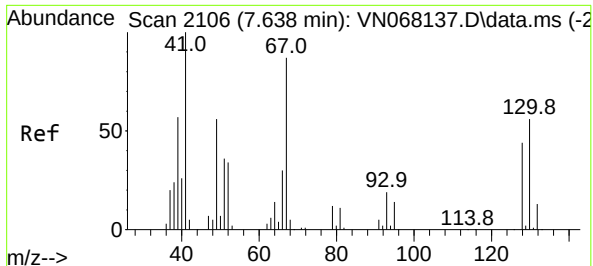
Tgt Ion: 43 Resp: 2133
Ion Ratio Lower Upper
43 100
61 0.0 10.6 16.0#
70 0.0 8.1 12.1#



#38
Carbon Tetrachloride
Concen: 5.877 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.118 min
Lab File: VN068220.D
Acq: 19 Aug 2021 16:39

Tgt Ion: 117 Resp: 43118
Ion Ratio Lower Upper
117 100
119 6.0 75.4 113.2#
121 0.0 23.5 35.3#

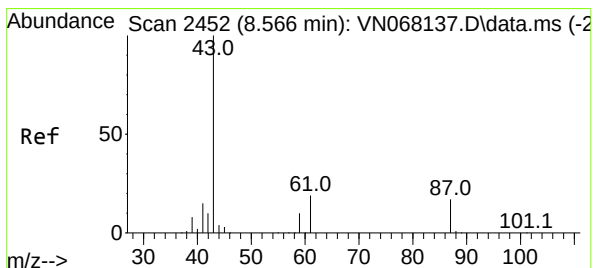
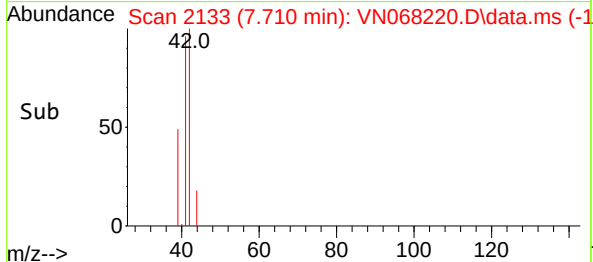
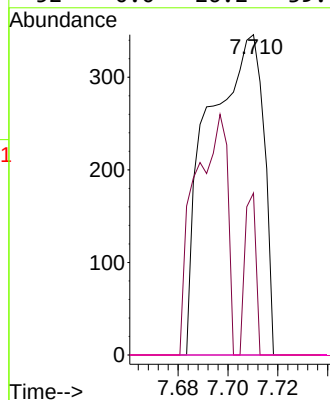
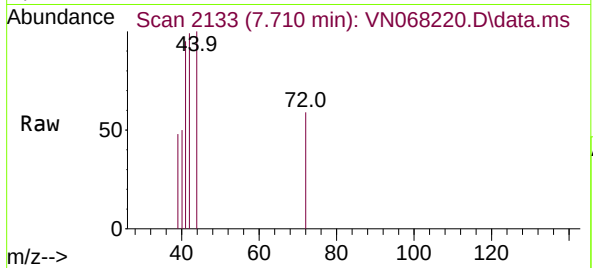




#41
Methacrylonitrile
Concen: 0.214 ug/l
RT: 7.710 min Scan# 2133
Delta R.T. 0.072 min
Lab File: VN068220.D
Acq: 19 Aug 2021 16:39

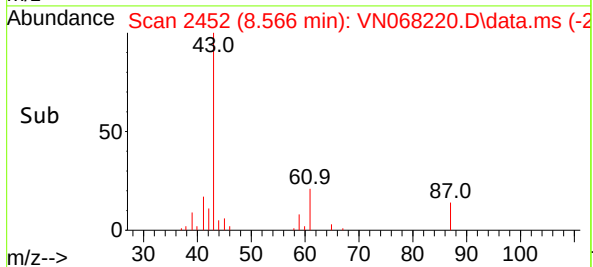
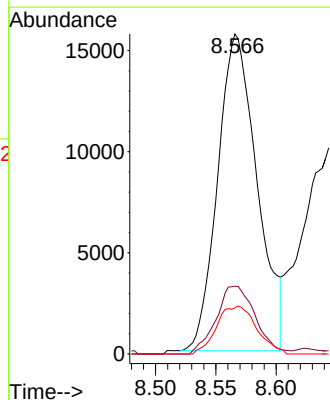
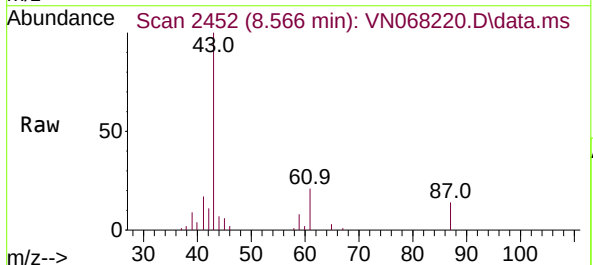
Instrument :
MSVOA_N
ClientSampled :

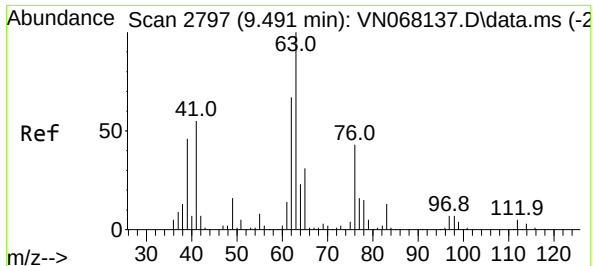
Tgt Ion: 41	Resp: 530
Ion Ratio	Lower Upper
41	100
39	10.2 47.6 71.4#
67	0.0 57.7 86.5#
52	0.0 26.2 39.4#



#43
Isopropyl Acetate
Concen: 4.100 ug/l
RT: 8.566 min Scan# 2452
Delta R.T. -0.000 min
Lab File: VN068220.D
Acq: 19 Aug 2021 16:39

Tgt Ion: 43	Resp: 35590
Ion Ratio	Lower Upper
43	100
61	21.3 19.0 28.4
87	15.3 9.5 14.3#



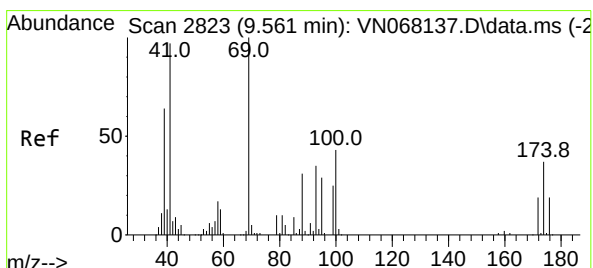
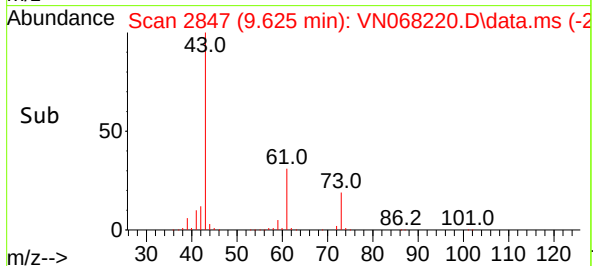
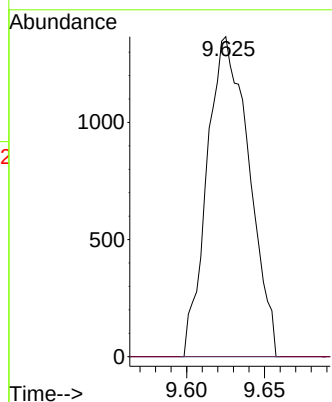
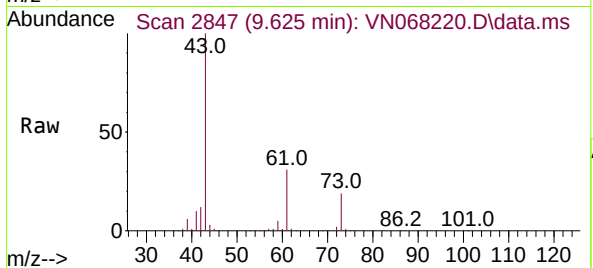


#45

1,2-Dichloropropane
Concen: 0.561 ug/l
RT: 9.625 min Scan# 2847
Delta R.T. 0.134 min
Lab File: VN068220.D
Acq: 19 Aug 2021 16:39

Instrument :
MSVOA_N
ClientSampled :

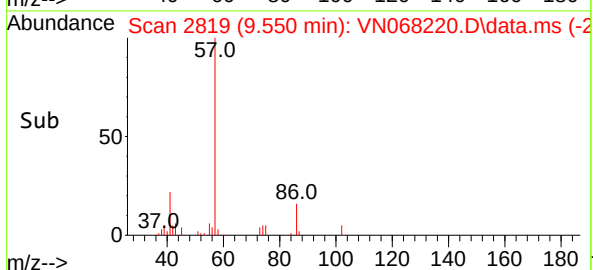
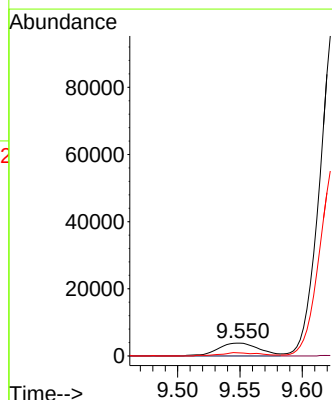
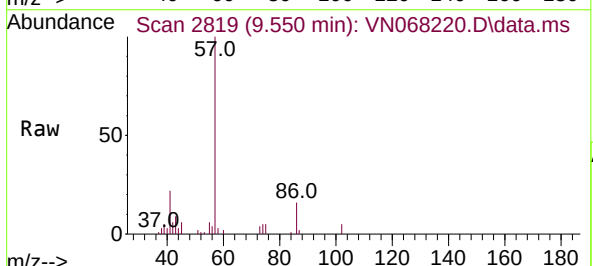
Tgt Ion: 63 Resp: 2563
Ion Ratio Lower Upper
63 100
65 0.0 24.3 36.5#

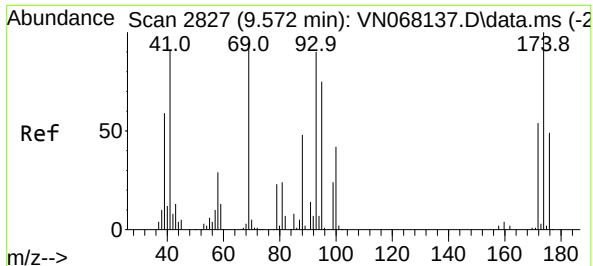


#48

Methyl methacrylate
Concen: 2.438 ug/l
RT: 9.550 min Scan# 2819
Delta R.T. -0.011 min
Lab File: VN068220.D
Acq: 19 Aug 2021 16:39

Tgt Ion: 41 Resp: 8819
Ion Ratio Lower Upper
41 100
69 0.0 64.6 96.8#
39 0.0 53.3 79.9#





#49

1,4-Dioxane

Concen: 0.309 ug/l

RT: 9.636 min Scan# 2851

Delta R.T. 0.064 min

Lab File: VN068220.D

Acq: 19 Aug 2021 16:39

Tgt Ion: 88 Resp: 27

Ion Ratio Lower Upper

88 100

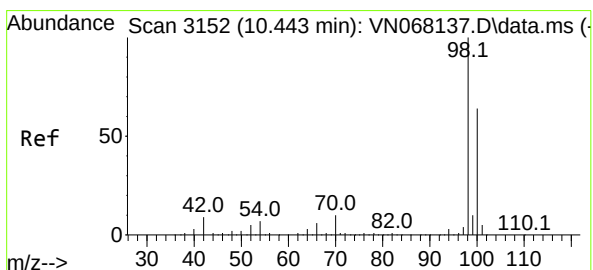
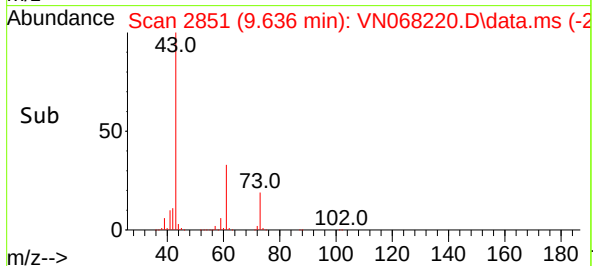
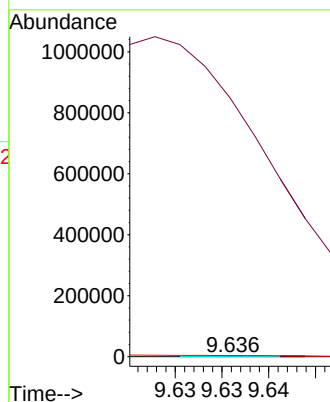
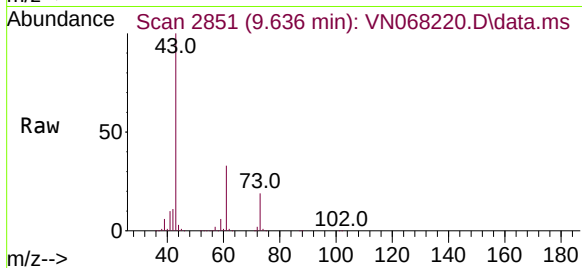
43 7337163.0 28.8 43.2#

58 38944.4 60.4 90.6#

Instrument :

MSVOA_N

ClientSampled :



#50

Toluene-d8

Concen: 53.169 ug/l

RT: 10.446 min Scan# 3153

Delta R.T. 0.003 min

Lab File: VN068220.D

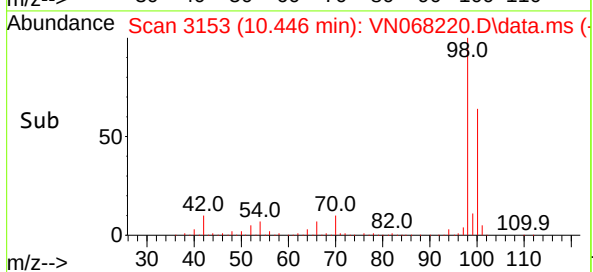
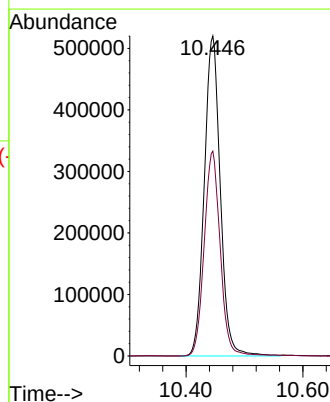
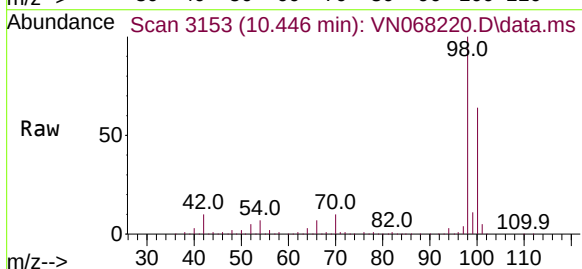
Acq: 19 Aug 2021 16:39

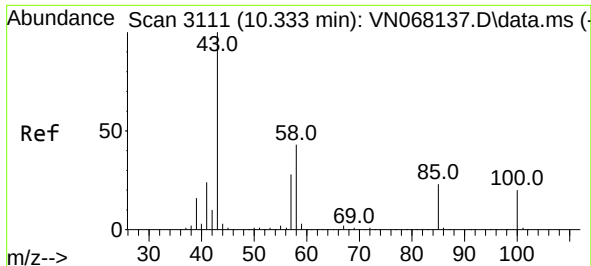
Tgt Ion: 98 Resp: 989685

Ion Ratio Lower Upper

98 100

100 63.9 51.7 77.5

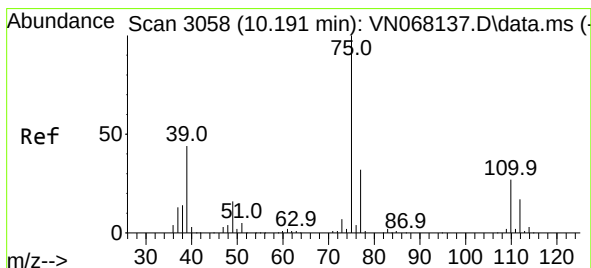
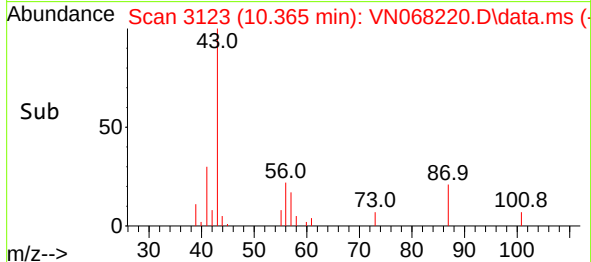
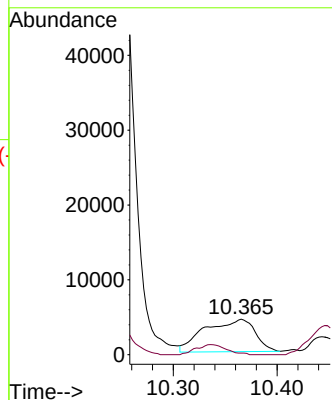
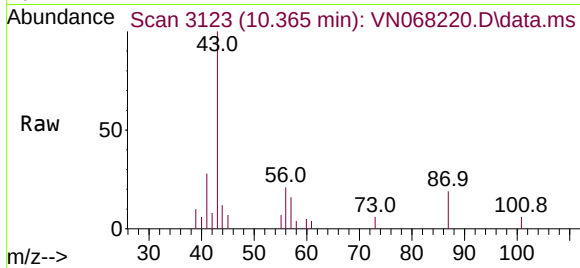




#51
4-Methyl-2-Pentanone
Concen: 2.734 ug/l
RT: 10.365 min Scan# 3123
Delta R.T. 0.032 min
Lab File: VN068220.D
Acq: 19 Aug 2021 16:39

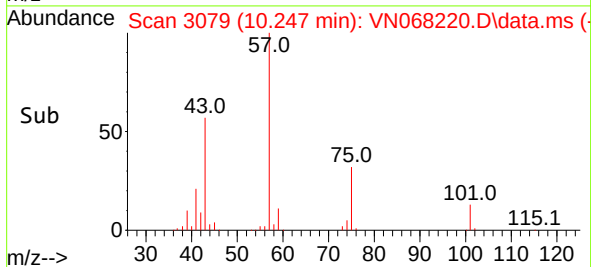
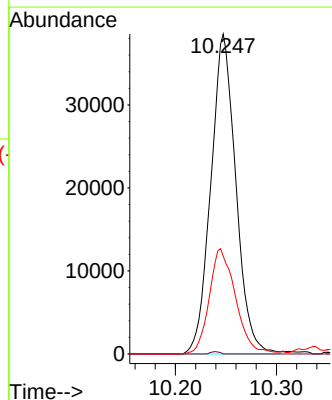
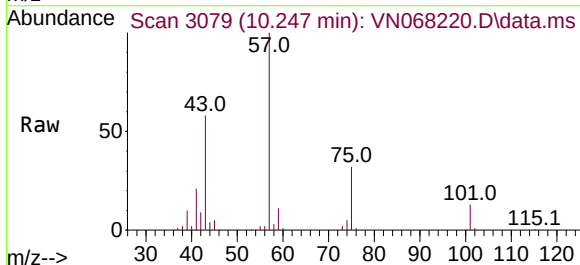
Instrument :
MSVOA_N
ClientSampled :

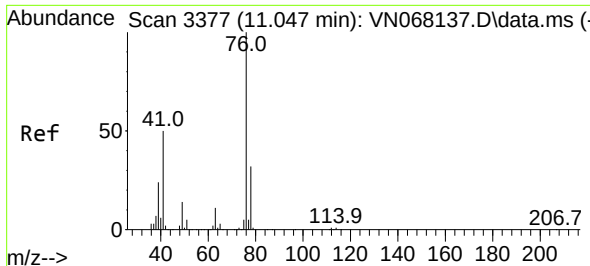
Tgt Ion: 43 Resp: 14580
Ion Ratio Lower Upper
43 100
58 0.0 28.6 43.0#



#54
cis-1,3-Dichloropropene
Concen: 8.988 ug/l
RT: 10.247 min Scan# 3079
Delta R.T. 0.056 min
Lab File: VN068220.D
Acq: 19 Aug 2021 16:39

Tgt Ion: 75 Resp: 66211
Ion Ratio Lower Upper
75 100
77 0.0 24.6 37.0#
39 30.6 50.7 76.1#

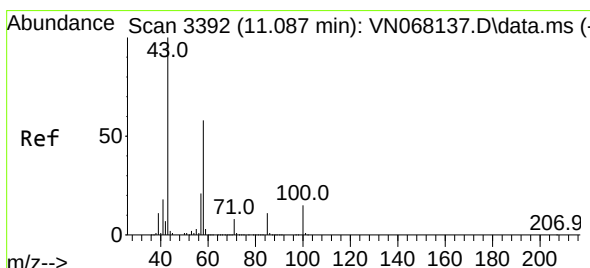
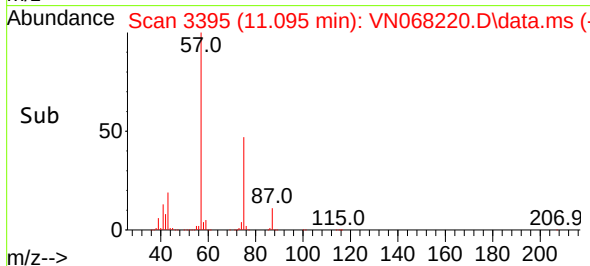
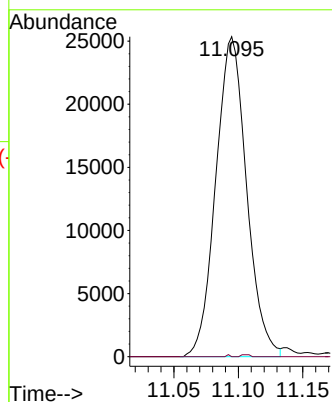
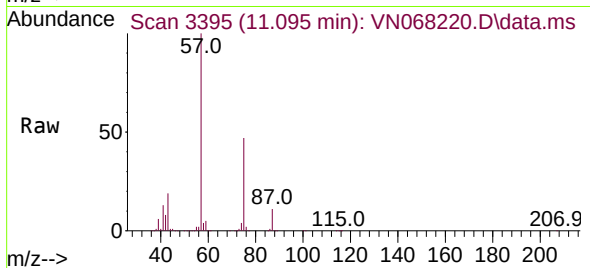




#57
1,3-Dichloropropane
Concen: 5.168 ug/l
RT: 11.095 min Scan# 3395
Delta R.T. 0.048 min
Lab File: VN068220.D
Acq: 19 Aug 2021 16:39

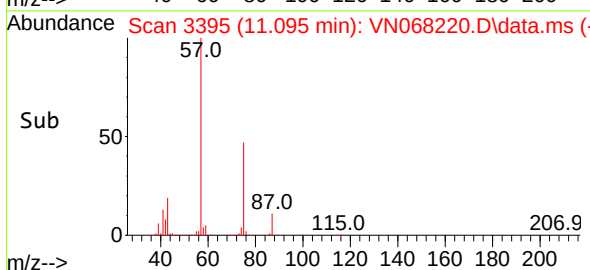
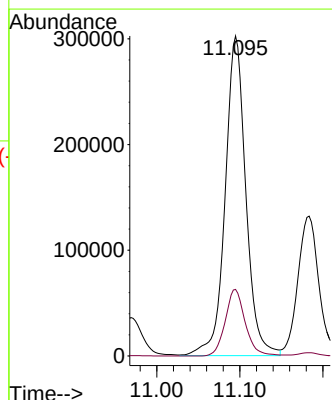
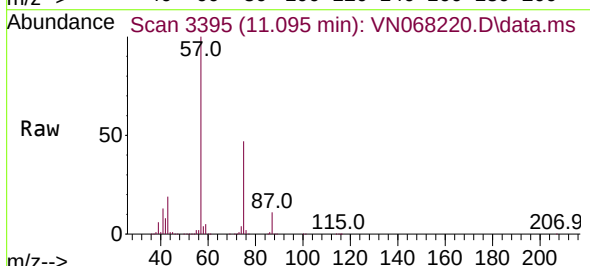
Instrument :
MSVOA_N
ClientSampled :

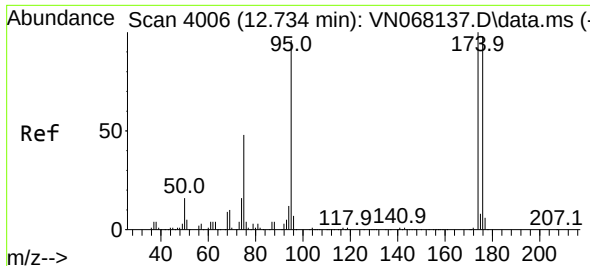
Tgt Ion: 76 Resp: 42100
Ion Ratio Lower Upper
76 100
78 0.1 25.7 38.5#



#59
2-Hexanone
Concen: 141.654 ug/l
RT: 11.095 min Scan# 3395
Delta R.T. 0.008 min
Lab File: VN068220.D
Acq: 19 Aug 2021 16:39

Tgt Ion: 43 Resp: 524442
Ion Ratio Lower Upper
43 100
58 20.1 24.7 74.1#

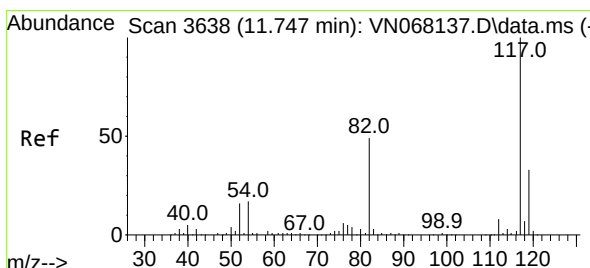
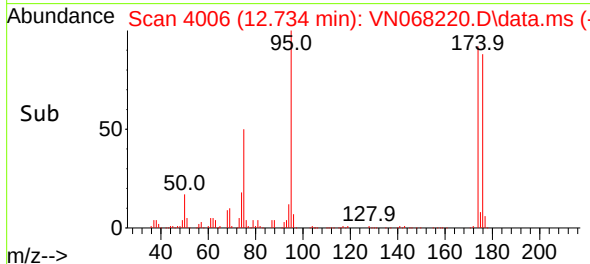
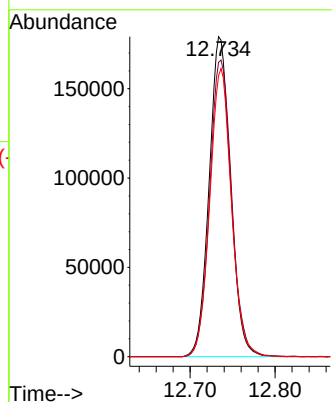
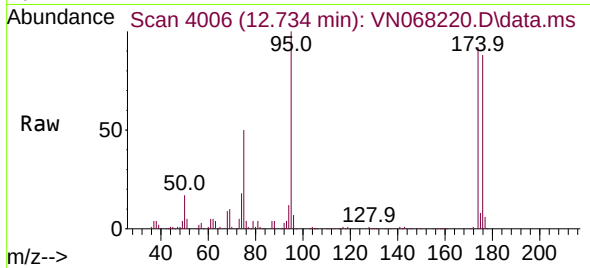




#62
4-Bromofluorobenzene
Concen: 50.677 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.000 min
Lab File: VN068220.D
Acq: 19 Aug 2021 16:39

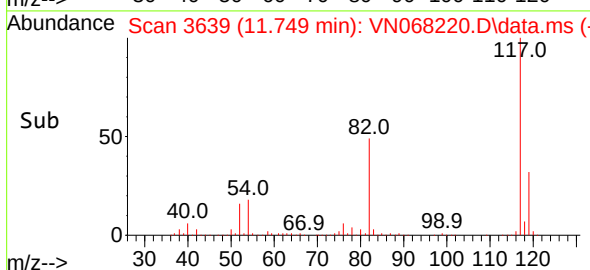
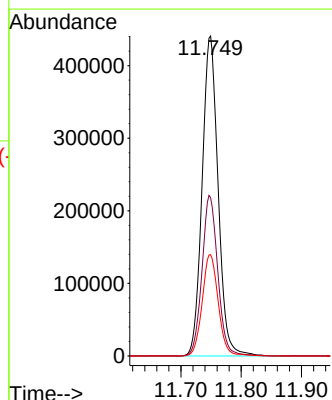
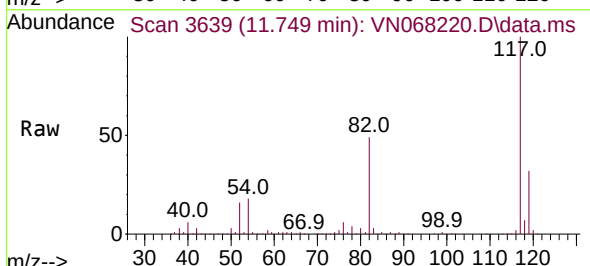
Instrument :
MSVOA_N
ClientSampleId :

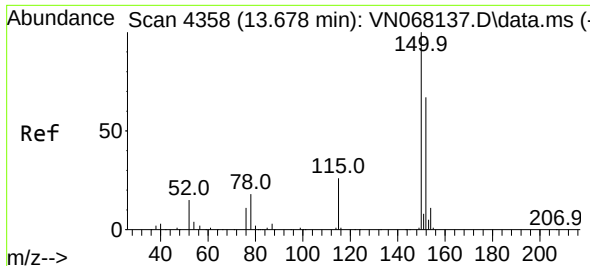
Tgt Ion: 95 Resp: 314022
Ion Ratio Lower Upper
95 100
174 95.8 0.0 122.0
176 90.7 0.0 117.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.749 min Scan# 3639
Delta R.T. 0.002 min
Lab File: VN068220.D
Acq: 19 Aug 2021 16:39

Tgt Ion: 117 Resp: 811754
Ion Ratio Lower Upper
117 100
82 49.5 53.1 79.7#
119 31.7 25.5 38.3

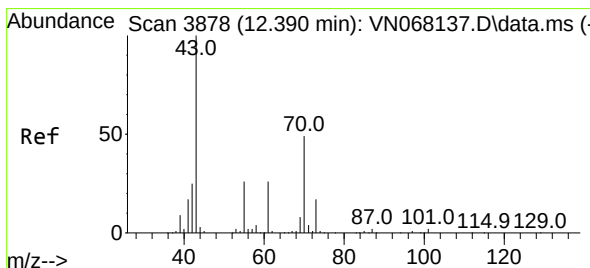
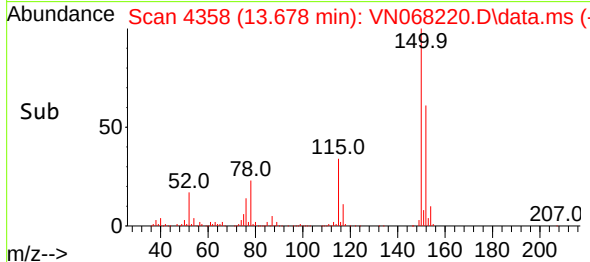
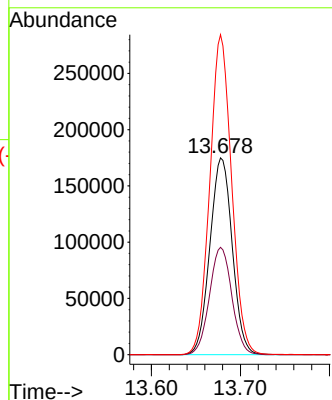
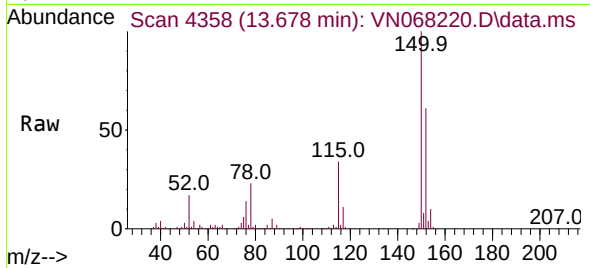




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. -0.000 min
Lab File: VN068220.D
Acq: 19 Aug 2021 16:39

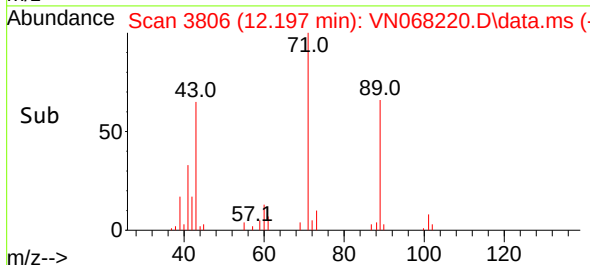
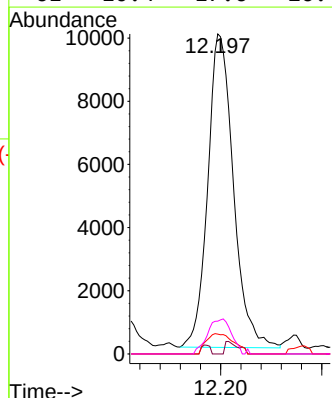
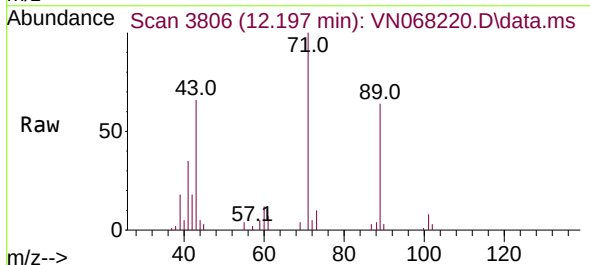
Instrument :
MSVOA_N
ClientSampled :

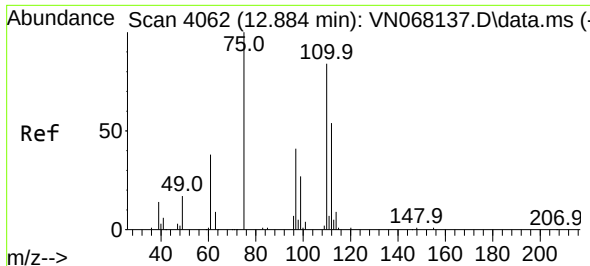
Tgt Ion:152 Resp: 305377
Ion Ratio Lower Upper
152 100
115 54.6 36.1 108.5
150 158.2 0.0 351.8



#74
N-ethyl acetate
Concen: 3.092 ug/l
RT: 12.197 min Scan# 3806
Delta R.T. -0.193 min
Lab File: VN068220.D
Acq: 19 Aug 2021 16:39

Tgt Ion: 43 Resp: 17484
Ion Ratio Lower Upper
43 100
70 2.0 29.4 44.2#
55 6.9 17.0 25.4#
61 10.4 17.6 26.4#

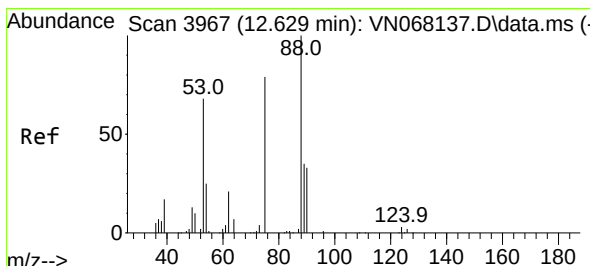
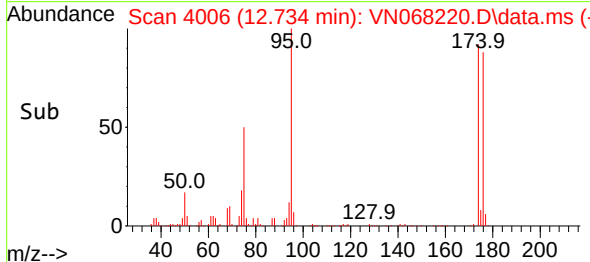
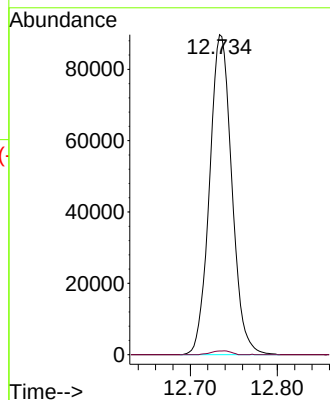
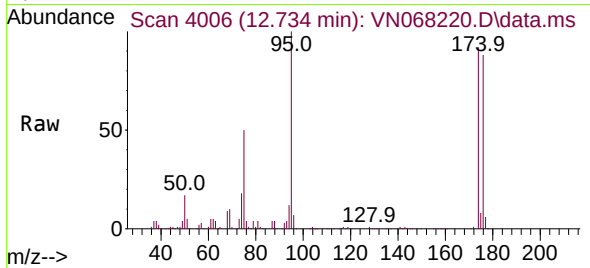




#76
1,2,3-Trichloropropane
Concen: 31.492 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.150 min
Lab File: VN068220.D
Acq: 19 Aug 2021 16:39

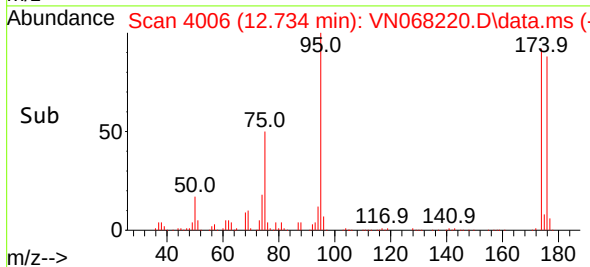
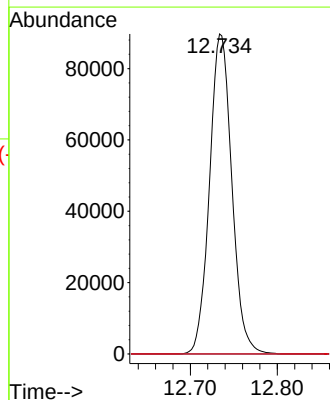
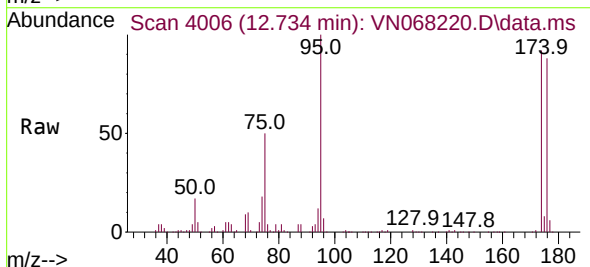
Instrument :
MSVOA_N
ClientSampled :

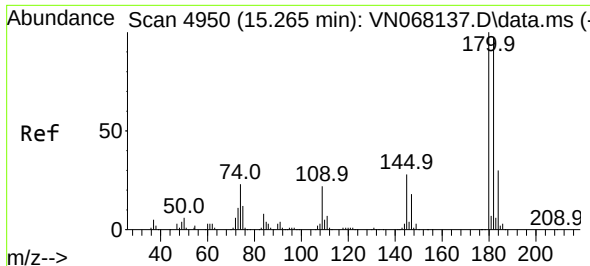
Tgt Ion: 75 Resp: 159845
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 103.174 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.105 min
Lab File: VN068220.D
Acq: 19 Aug 2021 16:39

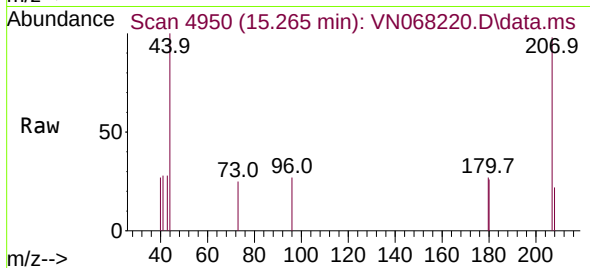
Tgt Ion: 75 Resp: 159845
Ion Ratio Lower Upper
75 100
53 0.0 87.6 131.4#
89 0.0 37.8 56.8#



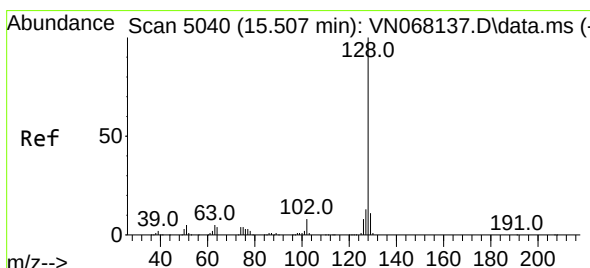
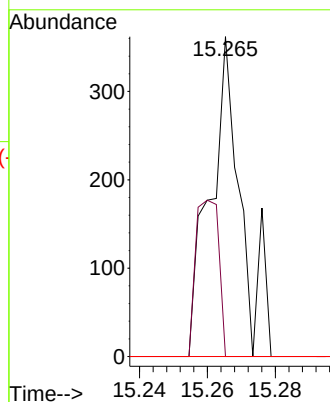
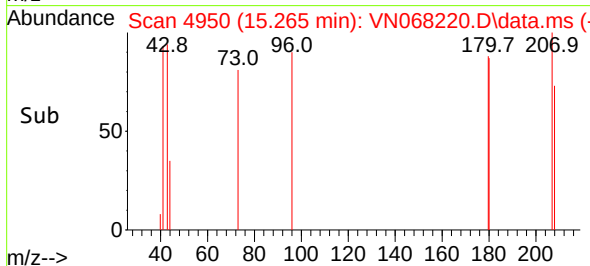


#93
1,2,4-Trichlorobenzene
Concen: 2.728 ug/l
RT: 15.265 min Scan# 4950
Delta R.T. 0.000 min
Lab File: VN068220.D
Acq: 19 Aug 2021 16:39

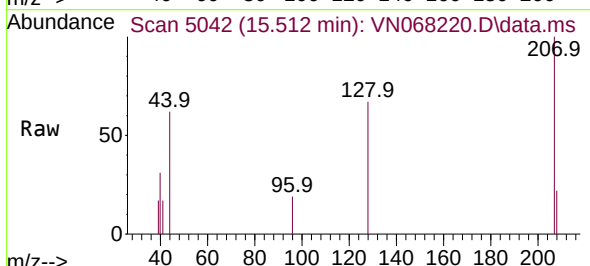
Instrument :
MSVOA_N
ClientSampled :



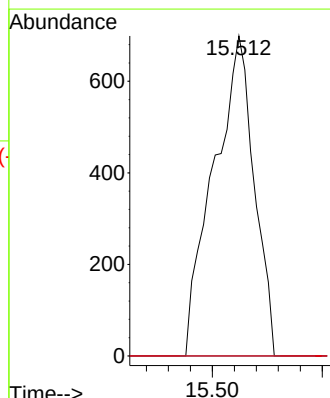
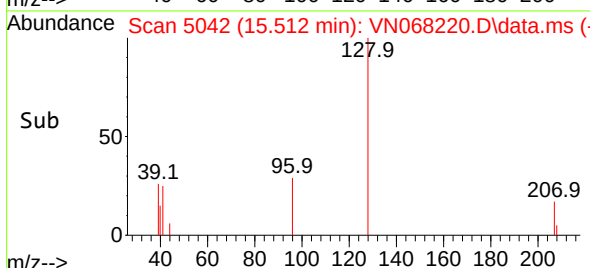
Tgt Ion:180 Resp: 229
Ion Ratio Lower Upper
180 100
182 36.2 47.5 142.5#
145 0.0 17.2 51.6#

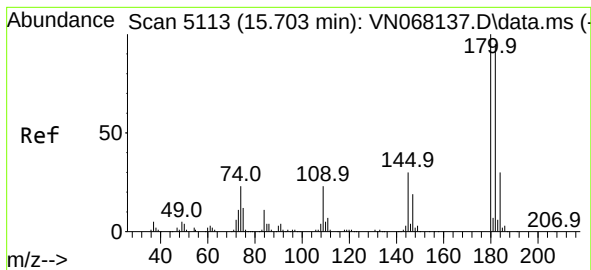


#95
Naphthalene
Concen: 3.414 ug/l
RT: 15.512 min Scan# 5042
Delta R.T. 0.005 min
Lab File: VN068220.D
Acq: 19 Aug 2021 16:39



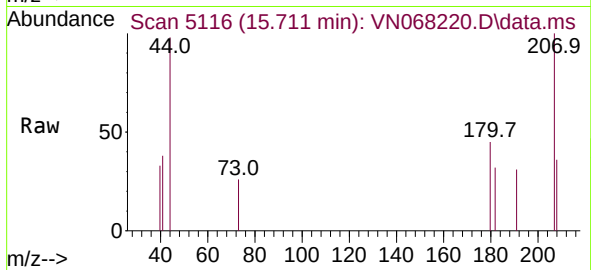
Tgt Ion:128 Resp: 896
Ion Ratio Lower Upper
128 100
127 0.0 10.6 15.8#
129 0.0 8.6 12.8#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.887 ug/l
 RT: 15.711 min Scan# 5116
 Delta R.T. 0.008 min
 Lab File: VN068220.D
 Acq: 19 Aug 2021 16:39

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:180 Resp: 286
 Ion Ratio Lower Upper
 180 100
 182 111.5 47.8 143.3
 145 0.0 18.2 54.6#

