

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071921\
 Data File : VN067803.D
 Acq On : 19 Jul 2021 19:15
 Operator : JC/MD
 Sample : M3088-08
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 20 04:54:23 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N070721W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 07 16:18:53 2021
 Response via : Initial Calibration

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

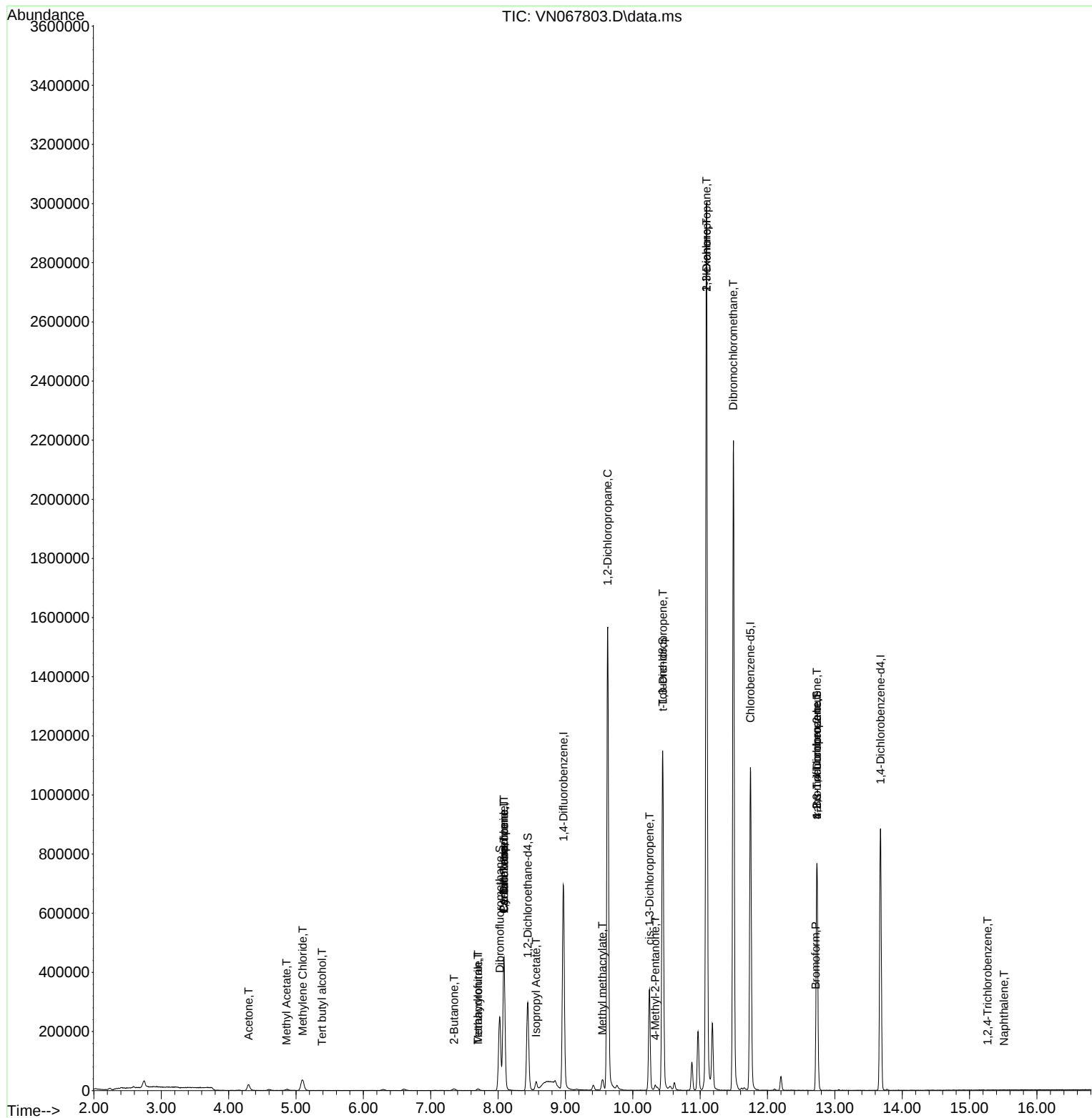
Internal Standards						
1) Pentafluorobenzene	8.088	168	320355	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.971	114	608993	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	633254	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	233228	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	254031	52.469	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 104.940%			
35) Dibromofluoromethane	8.027	113	182200	49.519	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 99.040%			
50) Toluene-d8	10.443	98	796486	51.717	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 103.440%			
62) 4-Bromofluorobenzene	12.734	95	272120	50.018	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 100.040%			
Target Compounds						
5) Bromomethane	2.875	94	1728	Below Cal		91
6) Chloroethane	3.132	64	119	Below Cal	#	44
11) Tert butyl alcohol	5.385	59	157	0.226	ug/l #	71
13) Acrolein	4.033	56	85	Below Cal	#	14
16) Acetone	4.296	43	37680	24.734	ug/l	95
18) Methyl Acetate	4.857	43	2738	0.640	ug/l #	64
20) Methylene Chloride	5.101	84	29536	7.717	ug/l	86
25) 2-Butanone	7.346	43	4435	1.753	ug/l	98
29) Tetrahydrofuran	7.700	42	4578	2.752	ug/l #	50
31) Cyclohexane	8.088	56	8716	1.284	ug/l #	18
36) 1,1-Dichloropropene	8.086	75	29125	5.149	ug/l #	48
38) Carbon Tetrachloride	8.086	117	36051	6.461	ug/l #	16
41) Methacrylonitrile	7.702	41	2813	0.999	ug/l #	27
43) Isopropyl Acetate	8.566	43	35708	3.704	ug/l #	90
45) 1,2-Dichloropropane	9.625	63	1797	0.419	ug/l #	44
48) Methyl methacrylate	9.547	41	9885	2.318	ug/l #	12
51) 4-Methyl-2-Pentanone	10.333	43	9863	1.665	ug/l	90
53) t-1,3-Dichloropropene	10.446	75	156	1.766	ug/l #	53
54) cis-1,3-Dichloropropene	10.247	75	59882	9.054	ug/l #	64
57) 1,3-Dichloropropane	11.095	76	31498	4.321	ug/l #	43
59) 2-Hexanone	11.095	43	472113	114.188	ug/l #	54
60) Dibromochloromethane	11.492	129	221	2.397	ug/l #	11
71) Bromoform	12.715	173	155	3.212	ug/l #	29
76) 1,2,3-Trichloropropane	12.734	75	154110	32.356	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.734	75	154110	104.319	ug/l #	6
93) 1,2,4-Trichlorobenzene	15.268	180	88	2.696	ug/l #	12
95) Naphthalene	15.509	128	782	3.077	ug/l #	69

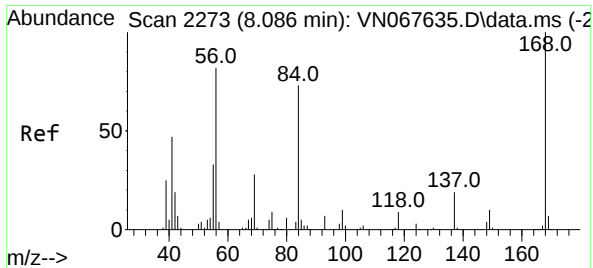
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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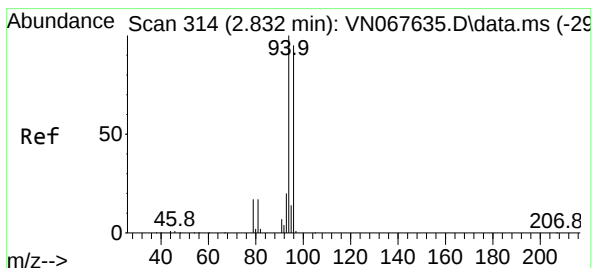
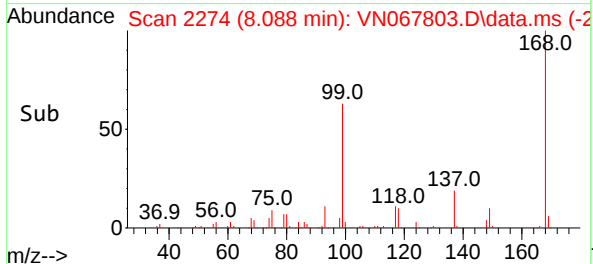
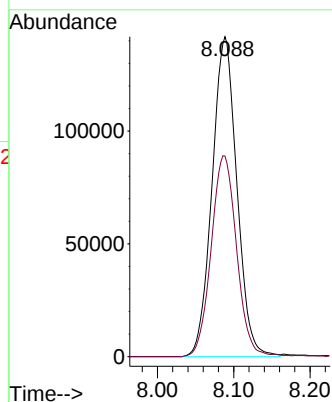
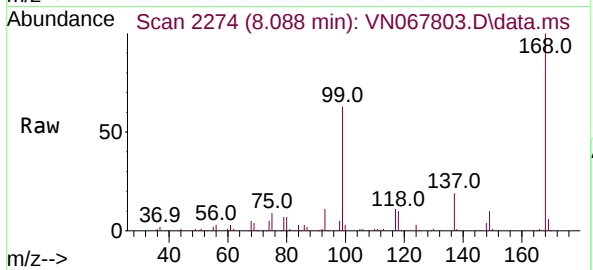




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. 0.002 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

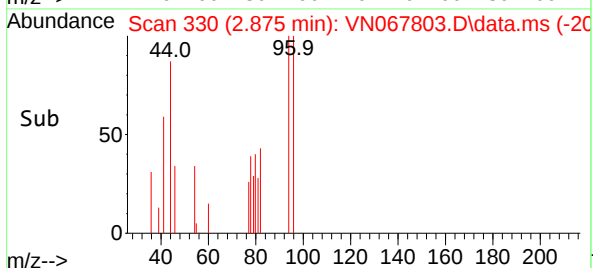
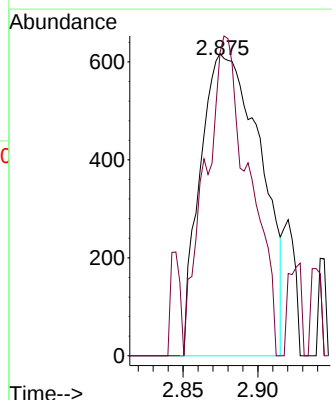
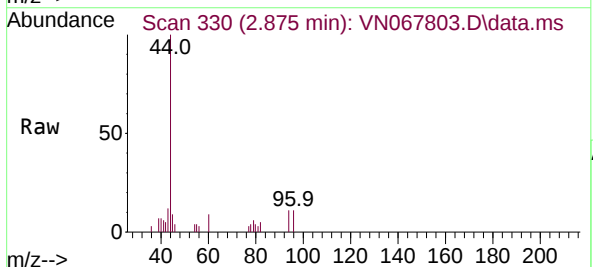
Instrument :
MSVOA_N
ClientSampled :

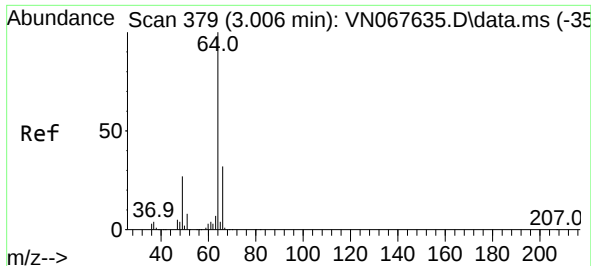
Tgt Ion:168 Resp: 320355
Ion Ratio Lower Upper
168 100
99 62.7 62.9 94.3#



#5
Bromomethane
Concen: Below Cal
RT: 2.875 min Scan# 330
Delta R.T. 0.043 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

Tgt Ion: 94 Resp: 1728
Ion Ratio Lower Upper
94 100
96 100.3 73.7 110.5

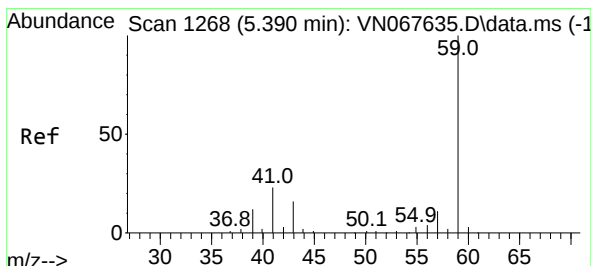
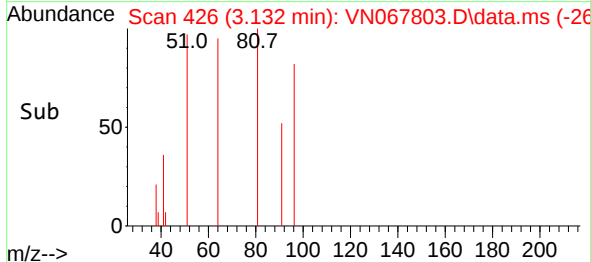
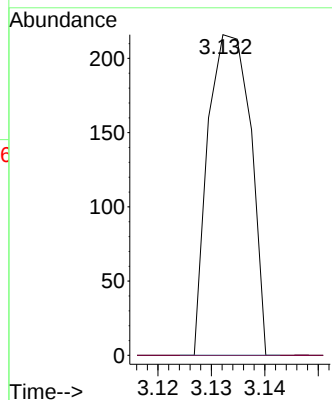
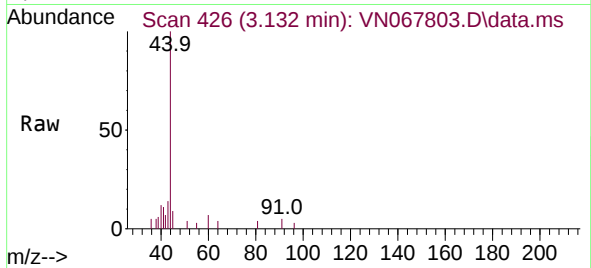




#6
Chloroethane
Concen: Below Cal
RT: 3.132 min Scan# 426
Delta R.T. 0.126 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

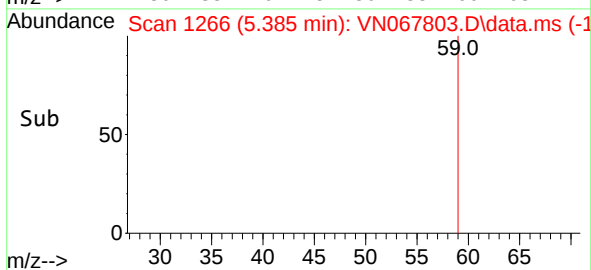
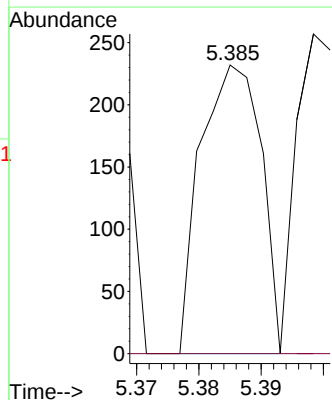
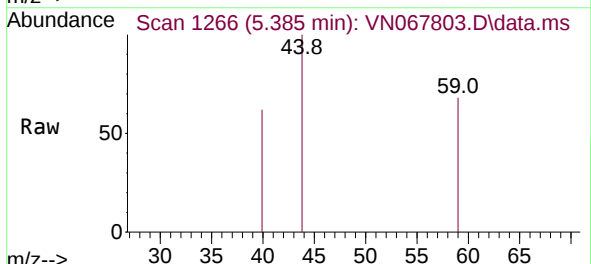
Instrument :
MSVOA_N
ClientSampled :

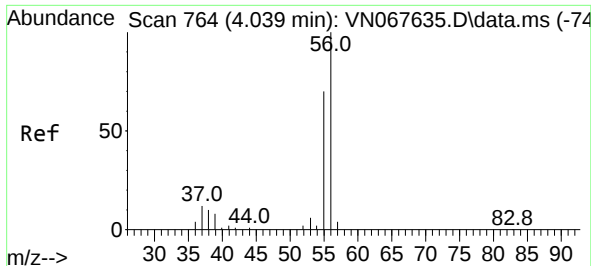
Tgt Ion: 64 Resp: 119
Ion Ratio Lower Upper
64 100
66 0.0 24.7 37.1#



#11
Tert butyl alcohol
Concen: 0.226 ug/l
RT: 5.385 min Scan# 1266
Delta R.T. -0.005 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

Tgt Ion: 59 Resp: 157
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

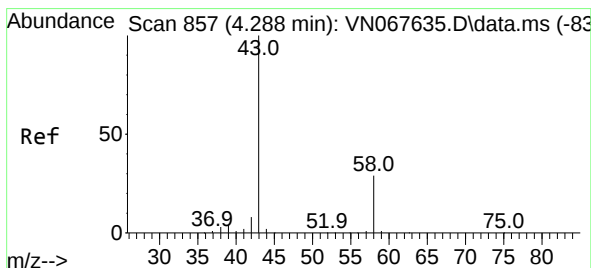
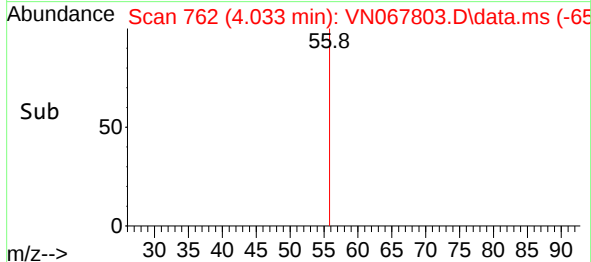
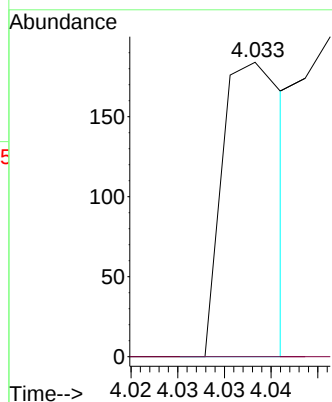
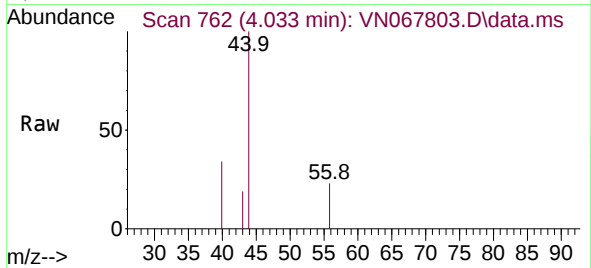




#13
Acrolein
Concen: Below Cal
RT: 4.033 min Scan# 762
Delta R.T. -0.006 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

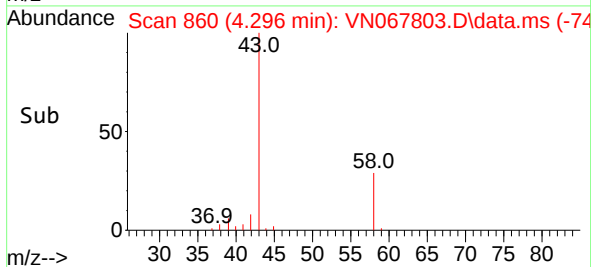
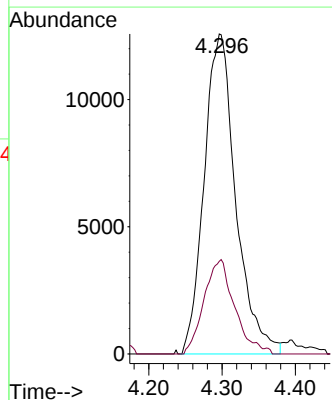
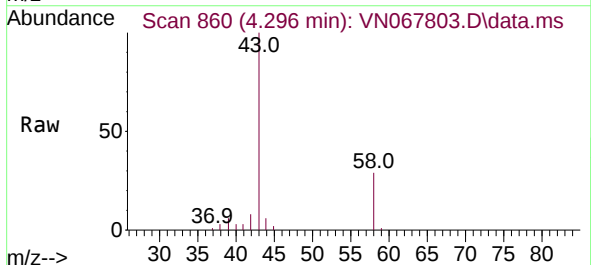
Instrument :
MSVOA_N
ClientSampled :

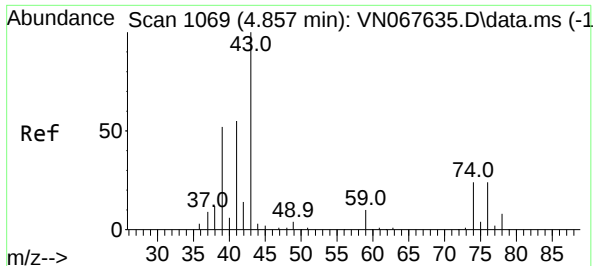
Tgt Ion: 56 Resp: 85
Ion Ratio Lower Upper
56 100
55 0.0 57.4 86.0#



#16
Acetone
Concen: 24.734 ug/l
RT: 4.296 min Scan# 860
Delta R.T. 0.008 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

Tgt Ion: 43 Resp: 37680
Ion Ratio Lower Upper
43 100
58 29.0 21.2 31.8

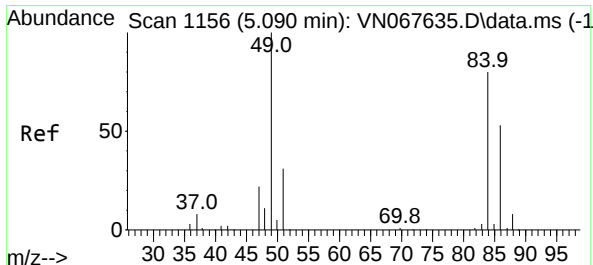
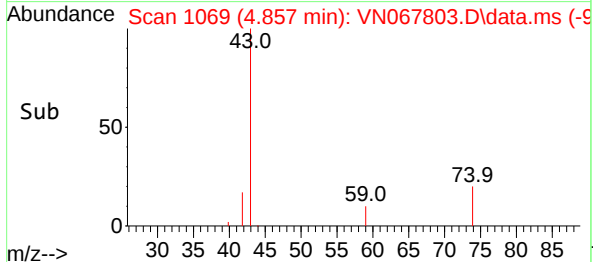
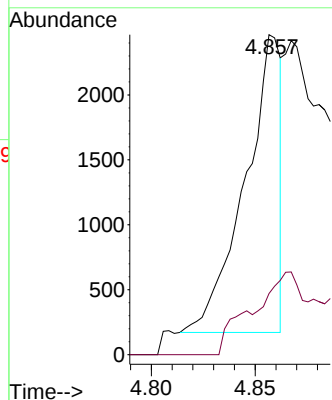
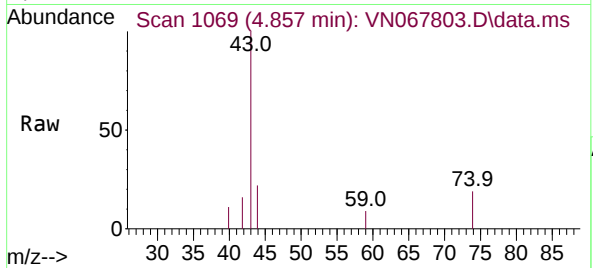




#18
Methyl Acetate
Concen: 0.640 ug/l
RT: 4.857 min Scan# 1069
Delta R.T. -0.000 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

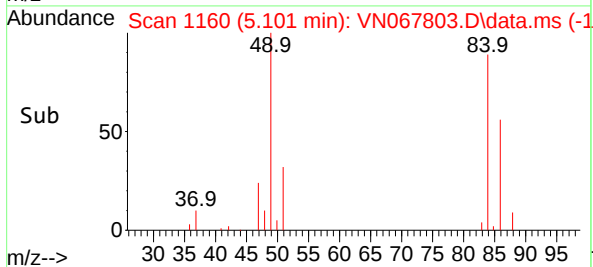
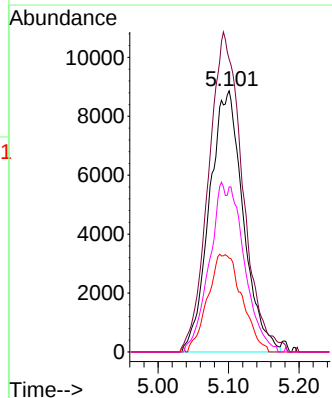
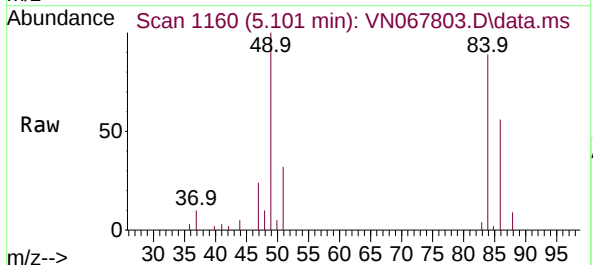
Instrument :
MSVOA_N
ClientSampled :

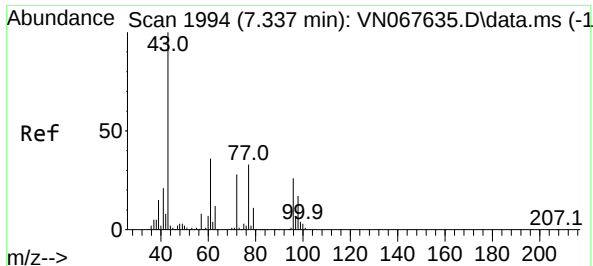
Tgt Ion: 43 Resp: 2738
Ion Ratio Lower Upper
43 100
74 39.0 17.4 26.0#



#20
Methylene Chloride
Concen: 7.717 ug/l
RT: 5.101 min Scan# 1160
Delta R.T. 0.011 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

Tgt Ion: 84 Resp: 29536
Ion Ratio Lower Upper
84 100
49 112.1 110.9 166.3
51 36.0 32.6 49.0
86 63.2 51.6 77.4

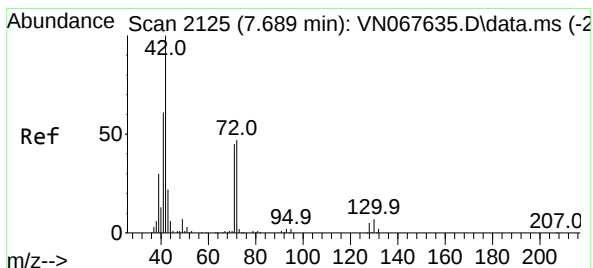
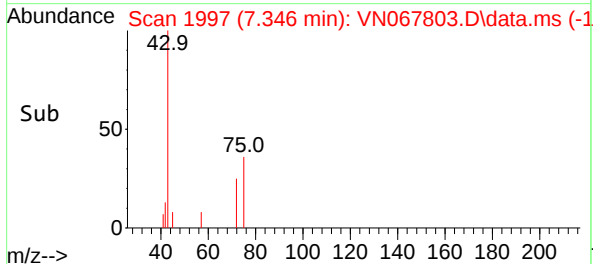
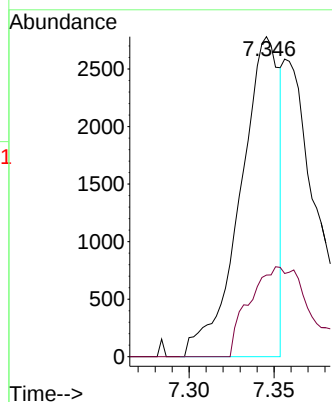
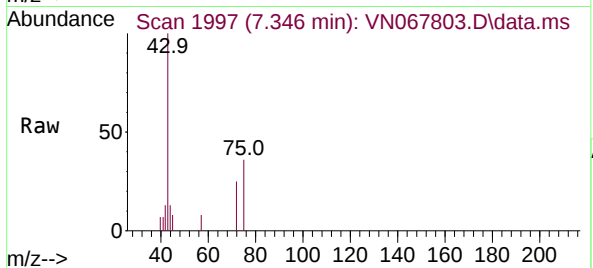




#25
2-Butanone
Concen: 1.753 ug/l
RT: 7.346 min Scan# 1997
Delta R.T. 0.009 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

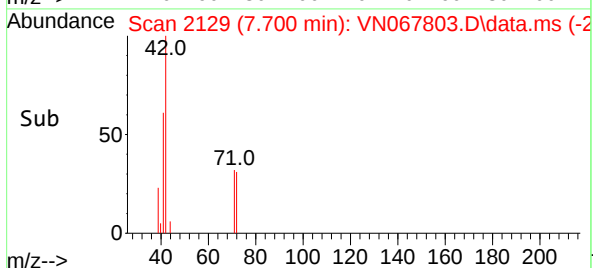
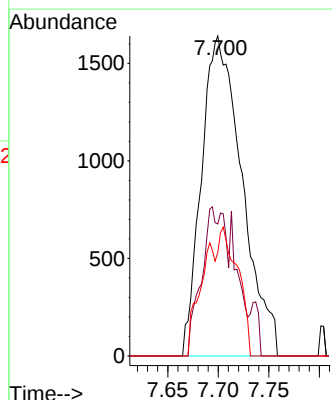
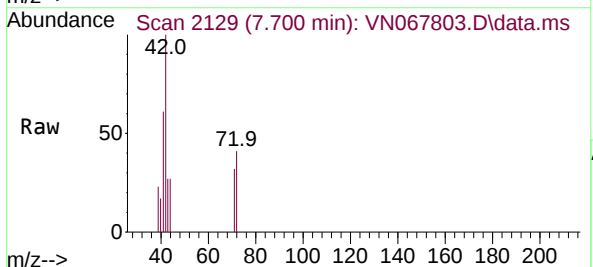
Instrument :
MSVOA_N
ClientSampled :

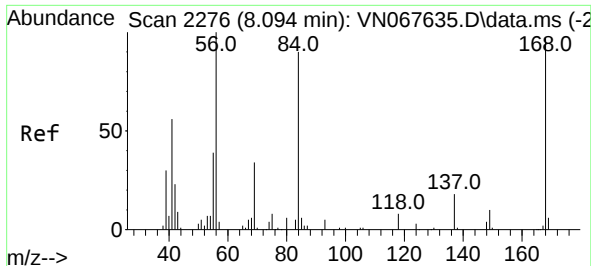
Tgt Ion: 43 Resp: 4435
Ion Ratio Lower Upper
43 100
72 25.5 19.7 29.5



#29
Tetrahydrofuran
Concen: 2.752 ug/l
RT: 7.700 min Scan# 2129
Delta R.T. 0.011 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

Tgt Ion: 42 Resp: 4578
Ion Ratio Lower Upper
42 100
72 0.0 32.8 49.2#
71 18.0 31.2 46.8#

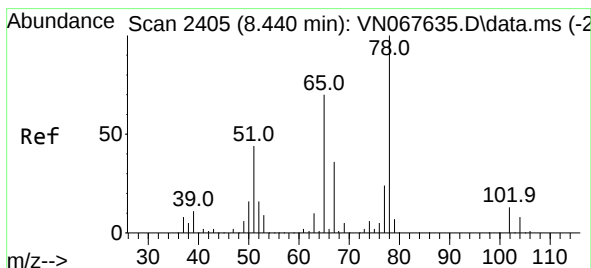
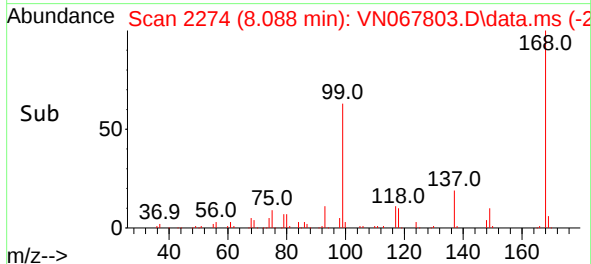
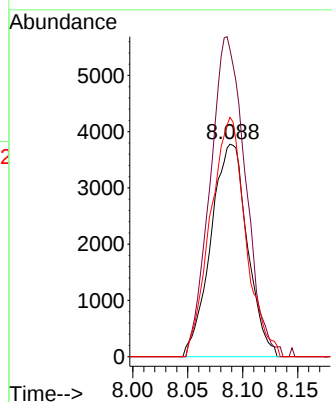
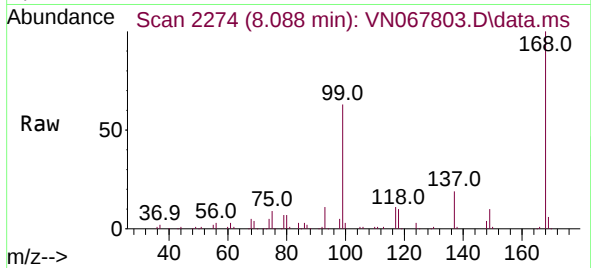




#31
Cyclohexane
Concen: 1.284 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.006 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

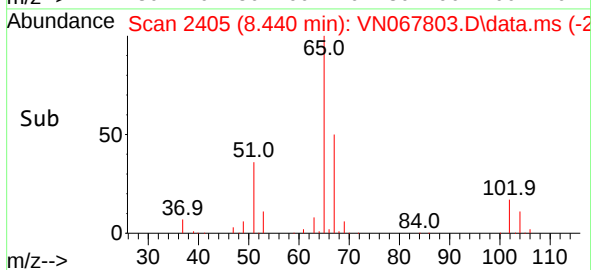
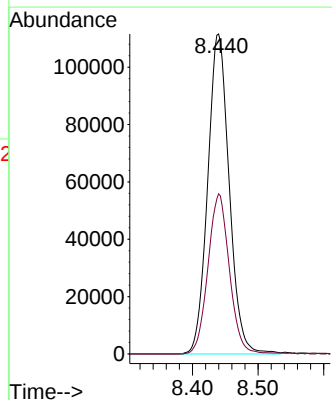
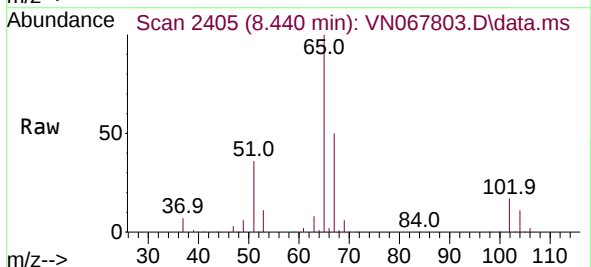
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MSVOA_N
ClientSampled :

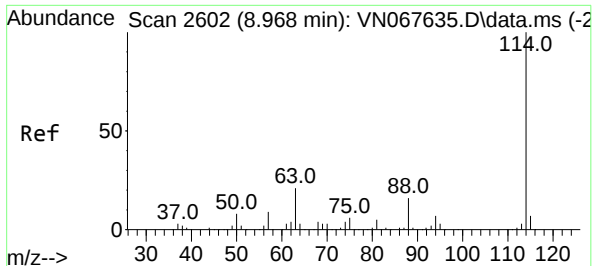
Tgt Ion: 56 Resp: 8716
Ion Ratio Lower Upper
56 100
69 144.5 27.3 40.9#
84 112.6 64.9 97.3#



#33
1,2-Dichloroethane-d4
Concen: 52.469 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

Tgt Ion: 65 Resp: 254031
Ion Ratio Lower Upper
65 100
67 49.9 0.0 98.6

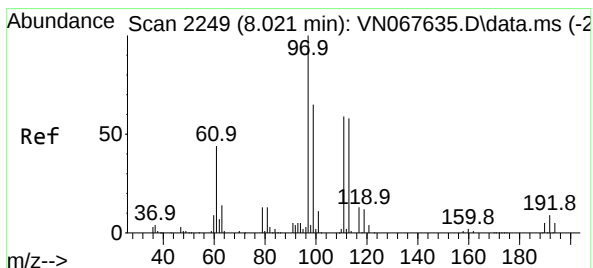
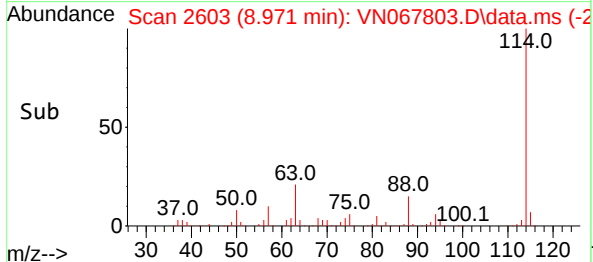
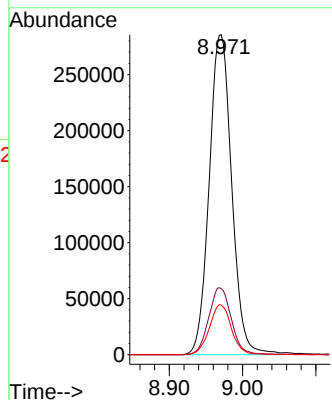
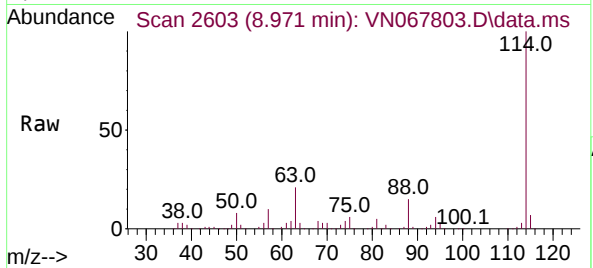




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. 0.003 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

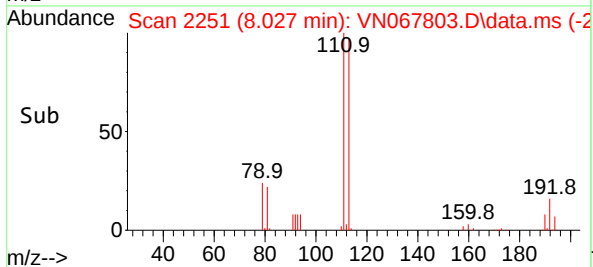
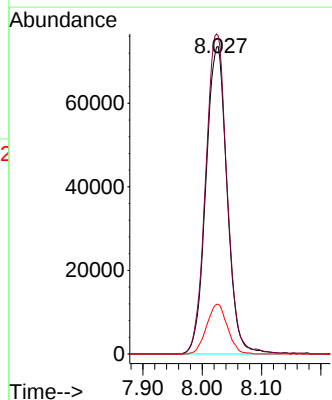
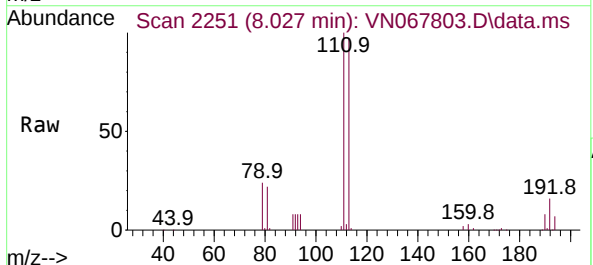
Instrument :
MSVOA_N
ClientSampled :

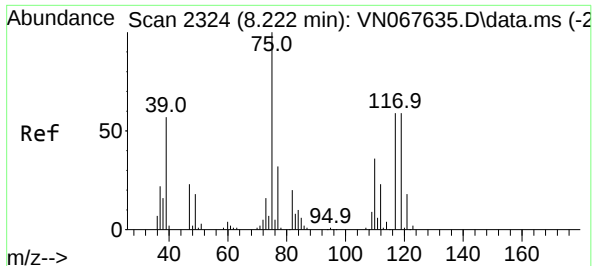
Tgt Ion:114 Resp: 608993
Ion Ratio Lower Upper
114 100
63 20.7 0.0 49.0
88 15.5 0.0 36.6



#35
Dibromofluoromethane
Concen: 49.519 ug/l
RT: 8.027 min Scan# 2251
Delta R.T. 0.006 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

Tgt Ion:113 Resp: 182200
Ion Ratio Lower Upper
113 100
111 104.3 83.8 125.8
192 15.9 13.4 20.0

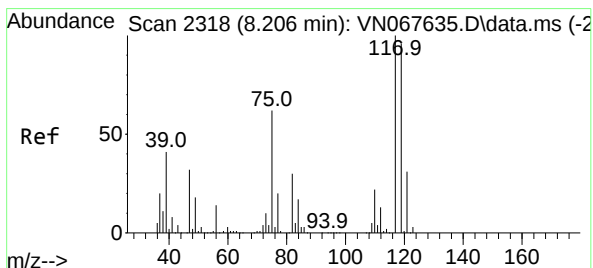
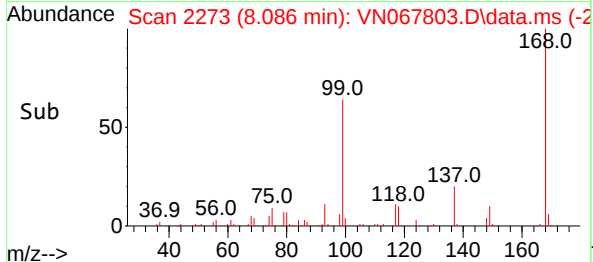
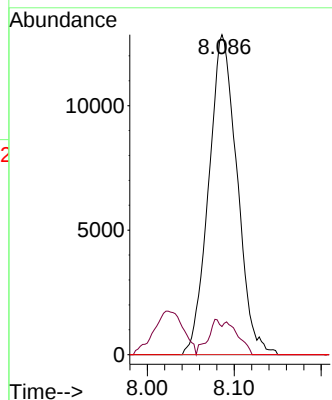
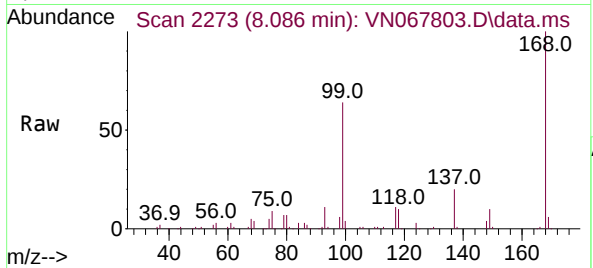




#36
1,1-Dichloropropene
Concen: 5.149 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.136 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

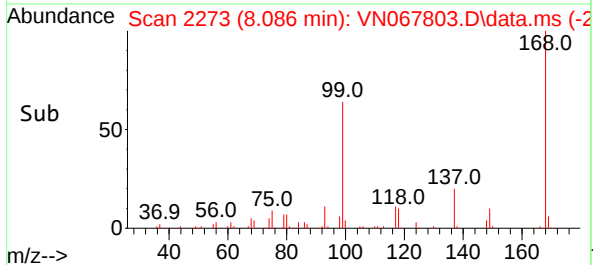
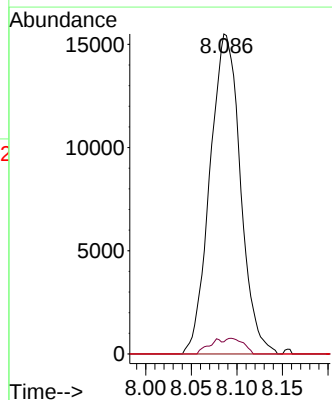
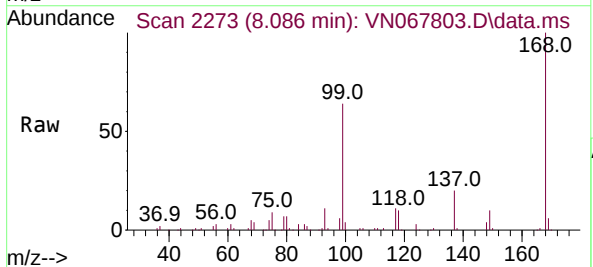
Instrument :
MSVOA_N
ClientSampled :

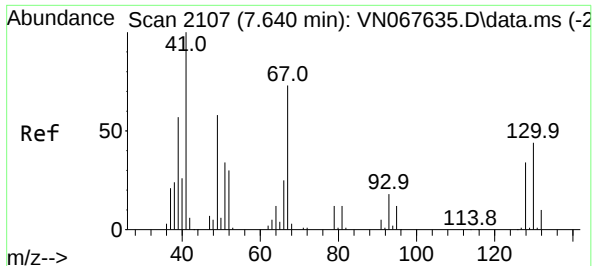
Tgt Ion: 75 Resp: 29125
Ion Ratio Lower Upper
75 100
110 5.2 15.7 47.0#
77 0.0 24.6 37.0#



#38
Carbon Tetrachloride
Concen: 6.461 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.120 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

Tgt Ion: 117 Resp: 36051
Ion Ratio Lower Upper
117 100
119 3.8 75.4 113.2#
121 0.0 23.5 35.3#

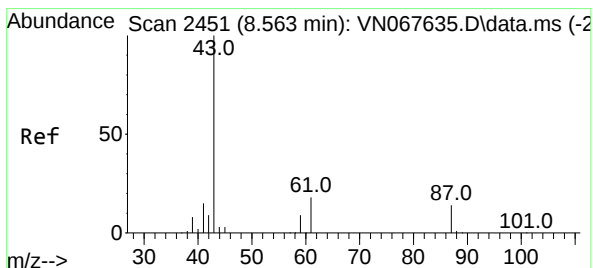
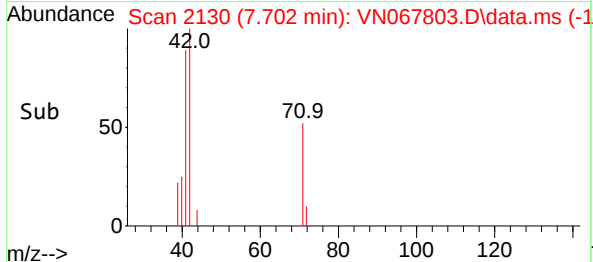
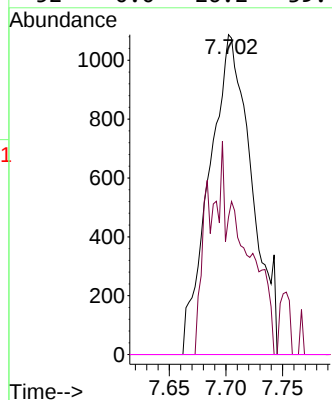
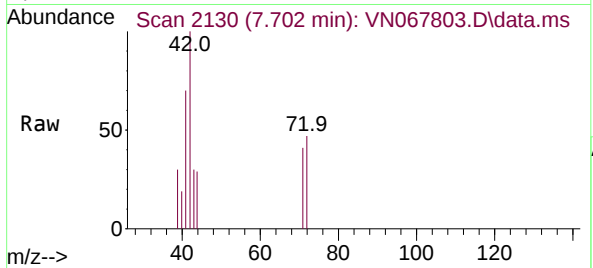




#41
Methacrylonitrile
Concen: 0.999 ug/l
RT: 7.702 min Scan# 2130
Delta R.T. 0.062 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

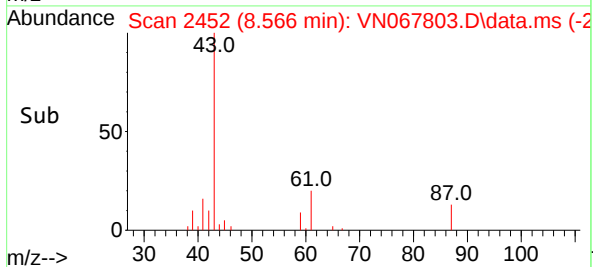
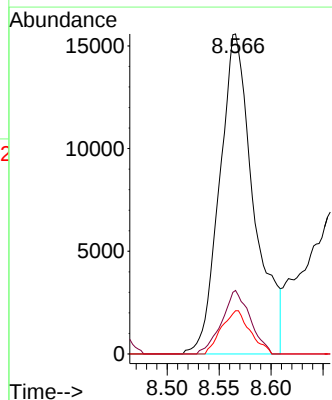
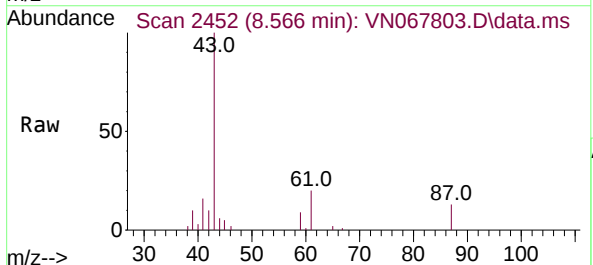
Instrument :
MSVOA_N
ClientSampled :

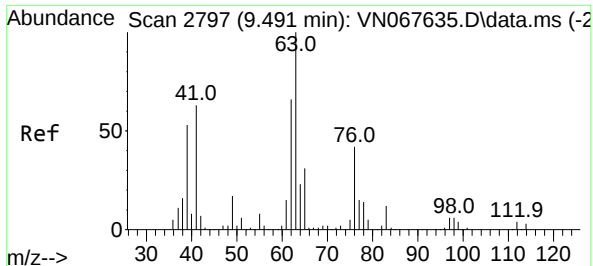
Tgt Ion: 41 Resp: 2813
Ion Ratio Lower Upper
41 100
39 11.4 47.6 71.4#
67 0.0 57.7 86.5#
52 0.0 26.2 39.4#



#43
Isopropyl Acetate
Concen: 3.704 ug/l
RT: 8.566 min Scan# 2452
Delta R.T. 0.003 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

Tgt Ion: 43 Resp: 35708
Ion Ratio Lower Upper
43 100
61 16.5 19.0 28.4#
87 11.3 9.5 14.3



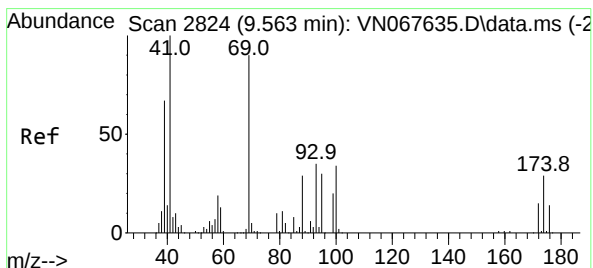
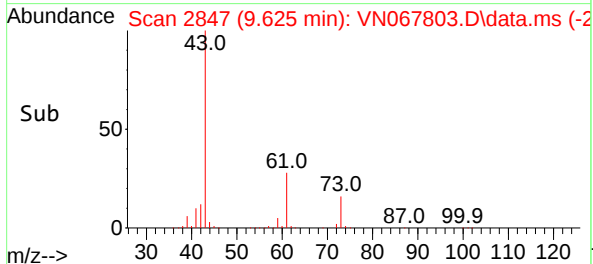
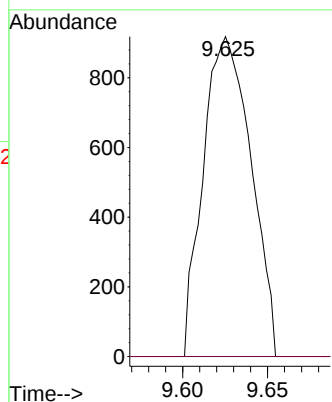
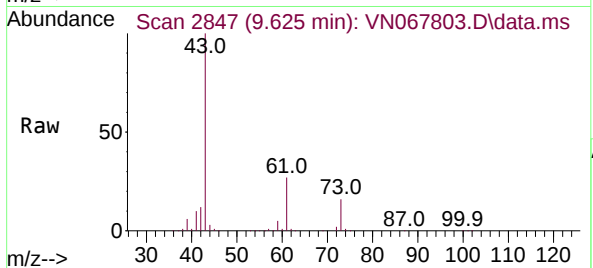


#45

1,2-Dichloropropane
Concen: 0.419 ug/l
RT: 9.625 min Scan# 2847
Delta R.T. 0.134 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

Instrument :
MSVOA_N
ClientSampled :

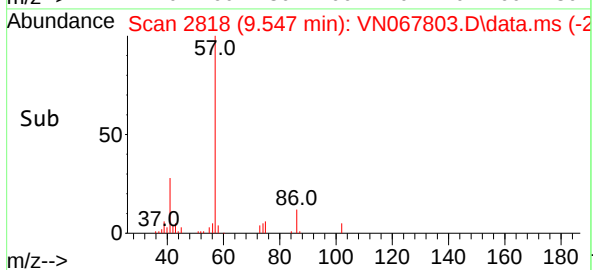
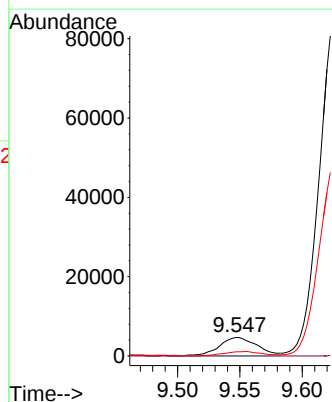
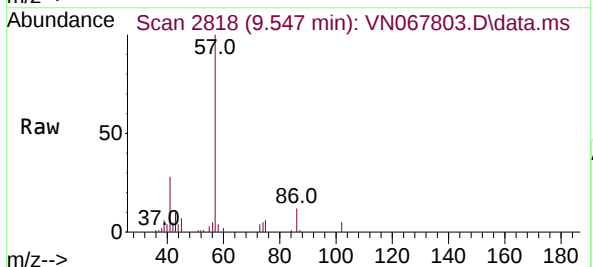
Tgt Ion: 63 Resp: 1797
Ion Ratio Lower Upper
63 100
65 0.0 24.3 36.5#

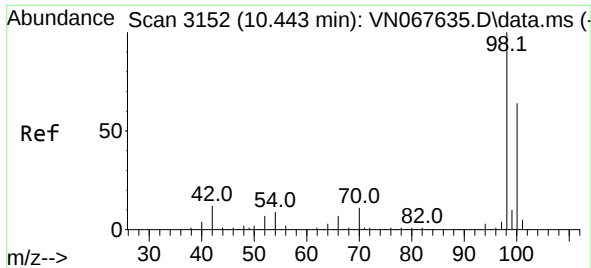


#48

Methyl methacrylate
Concen: 2.318 ug/l
RT: 9.547 min Scan# 2818
Delta R.T. -0.016 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

Tgt Ion: 41 Resp: 9885
Ion Ratio Lower Upper
41 100
69 0.0 64.6 96.8#
39 0.0 53.3 79.9#

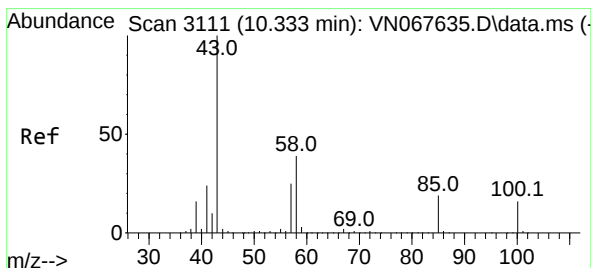
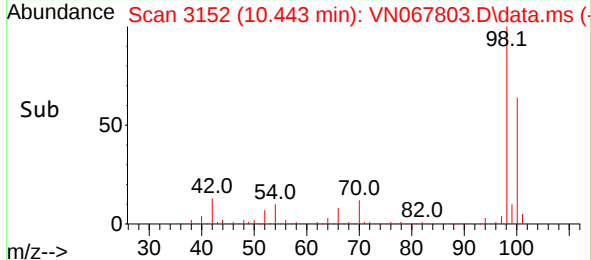
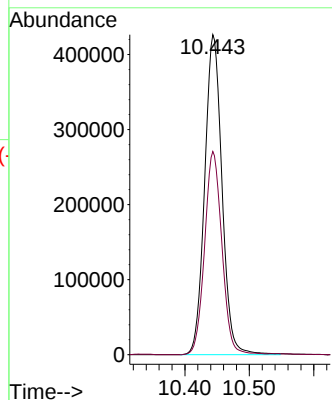
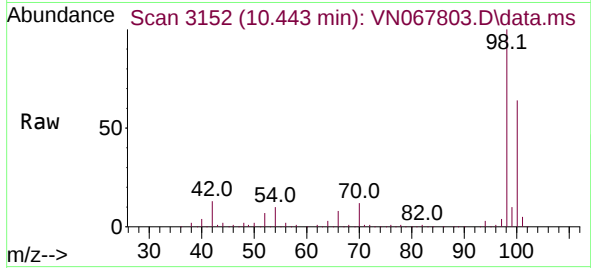




#50
Toluene-d8
Concen: 51.717 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.000 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

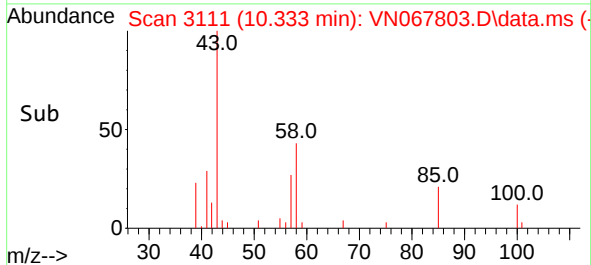
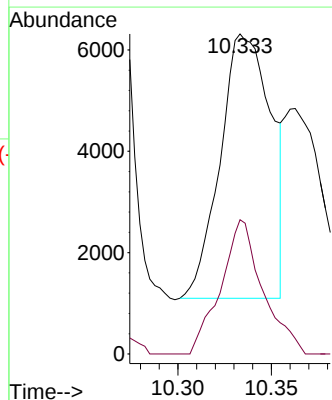
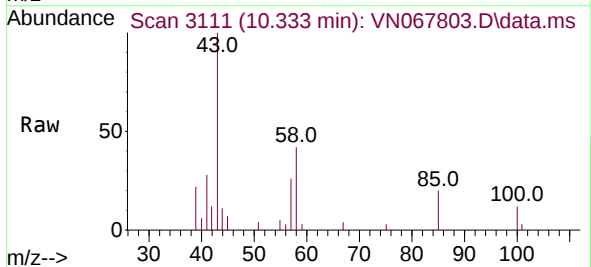
Instrument :
MSVOA_N
ClientSampled :

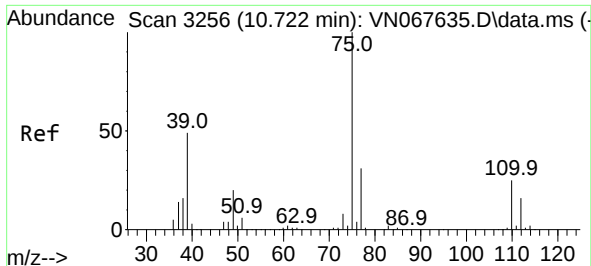
Tgt Ion: 98 Resp: 796486
Ion Ratio Lower Upper
98 100
100 63.4 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 1.665 ug/l
RT: 10.333 min Scan# 3111
Delta R.T. 0.000 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

Tgt Ion: 43 Resp: 9863
Ion Ratio Lower Upper
43 100
58 41.8 28.6 43.0

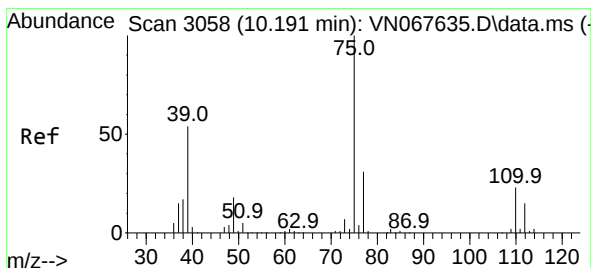
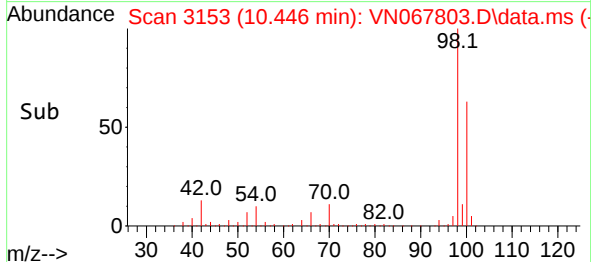
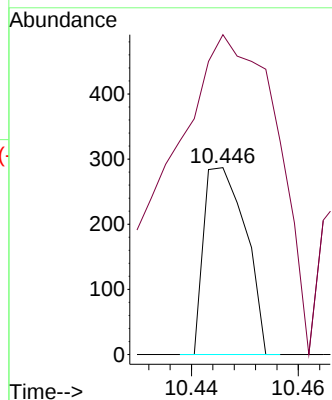
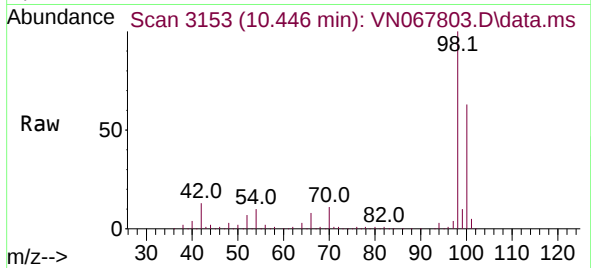




#53
t-1,3-Dichloropropene
Concen: 1.766 ug/l
RT: 10.446 min Scan# 3153
Delta R.T. -0.276 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

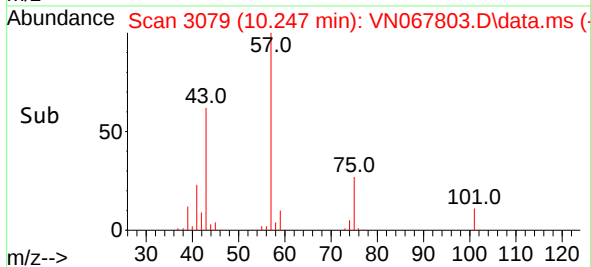
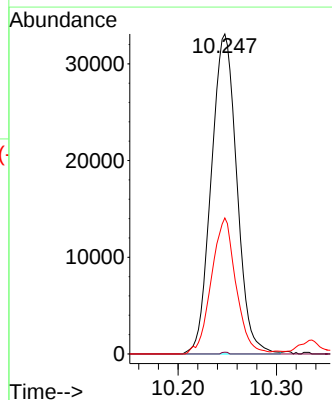
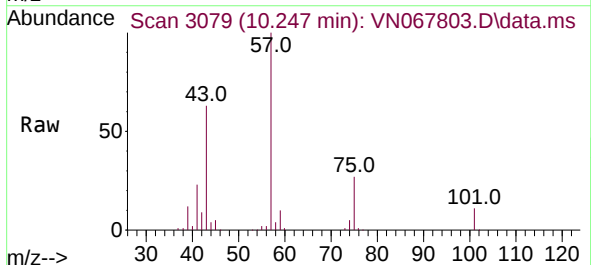
Instrument :
MSVOA_N
ClientSampled :

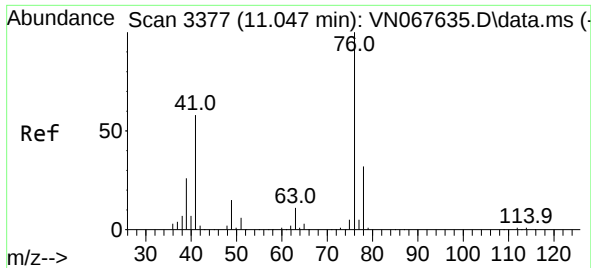
Tgt Ion: 75 Resp: 156
Ion Ratio Lower Upper
75 100
77 57.1 25.1 37.7#



#54
cis-1,3-Dichloropropene
Concen: 9.054 ug/l
RT: 10.247 min Scan# 3079
Delta R.T. 0.056 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

Tgt Ion: 75 Resp: 59882
Ion Ratio Lower Upper
75 100
77 0.6 24.6 37.0#
39 42.5 50.7 76.1#

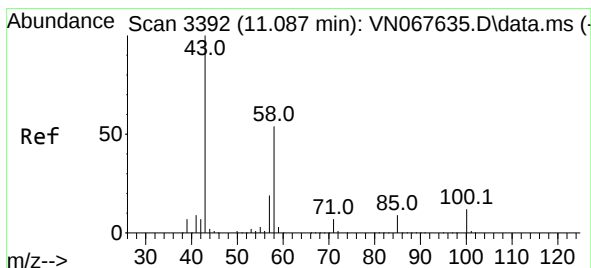
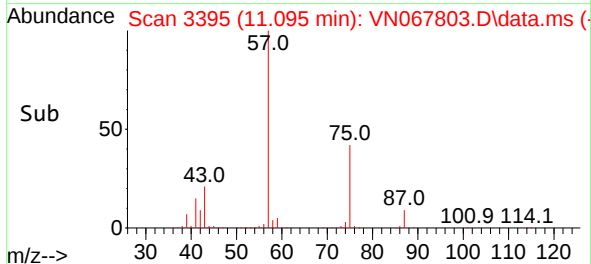
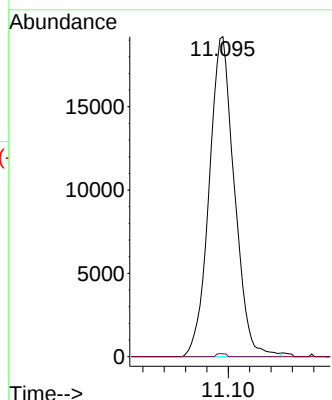
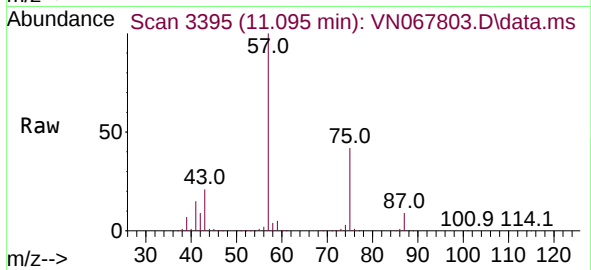




#57
1,3-Dichloropropane
Concen: 4.321 ug/l
RT: 11.095 min Scan# 3395
Delta R.T. 0.048 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

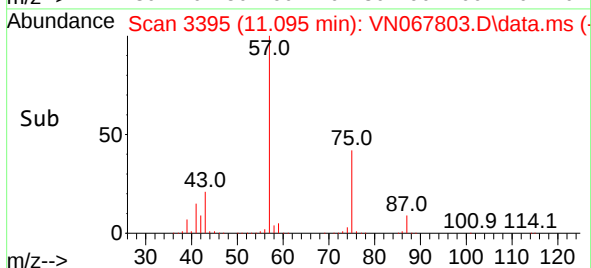
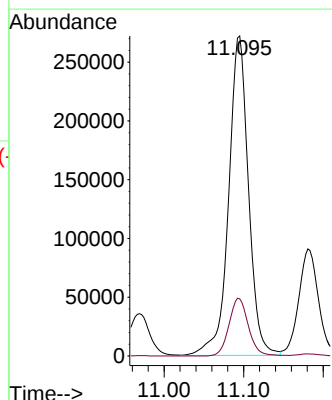
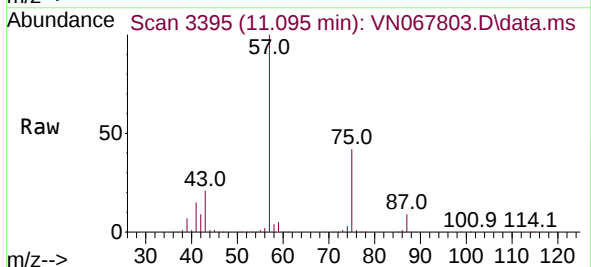
Instrument :
MSVOA_N
ClientSampled :

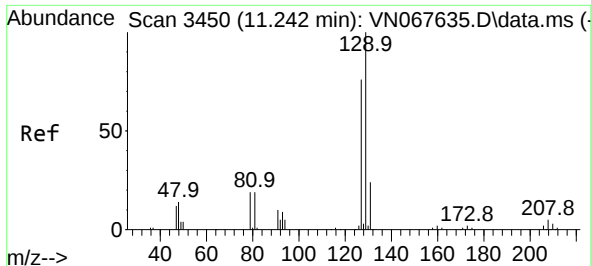
Tgt Ion: 76 Resp: 31498
Ion Ratio Lower Upper
76 100
78 0.3 25.7 38.5#



#59
2-Hexanone
Concen: 114.188 ug/l
RT: 11.095 min Scan# 3395
Delta R.T. 0.008 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

Tgt Ion: 43 Resp: 472113
Ion Ratio Lower Upper
43 100
58 17.6 24.7 74.1#

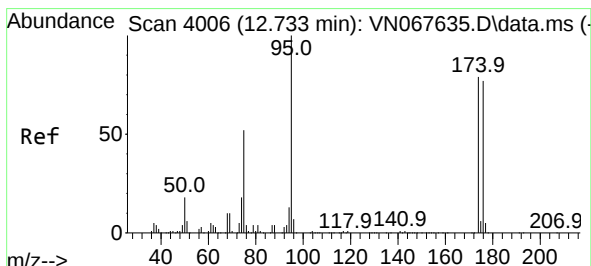
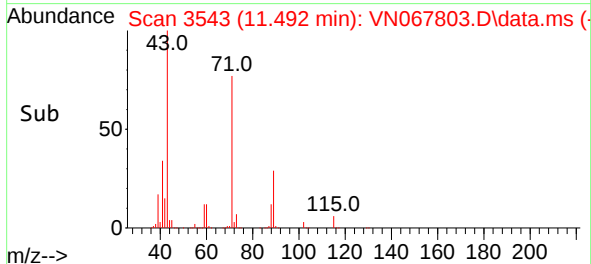
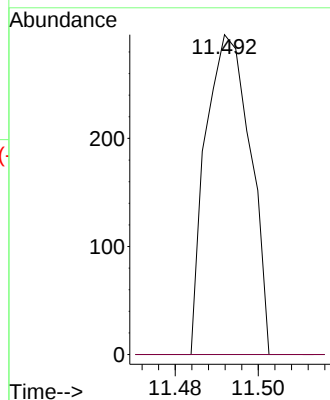
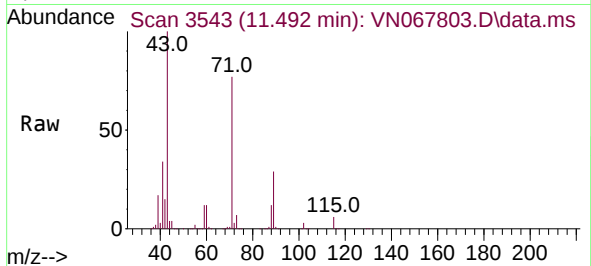




#60
Dibromochloromethane
Concen: 2.397 ug/l
RT: 11.492 min Scan# 3543
Delta R.T. 0.250 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

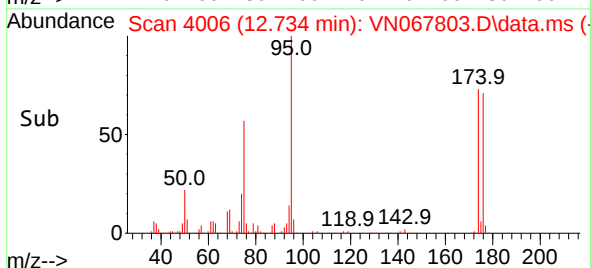
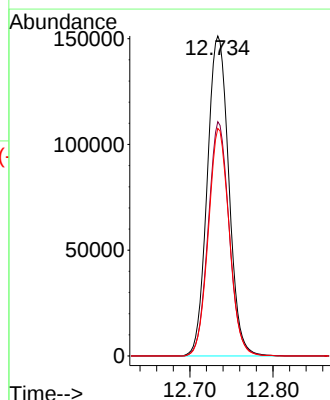
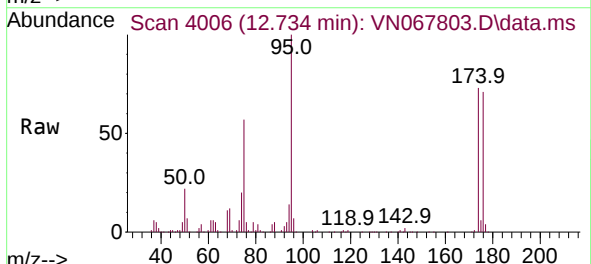
Instrument :
MSVOA_N
ClientSampled :

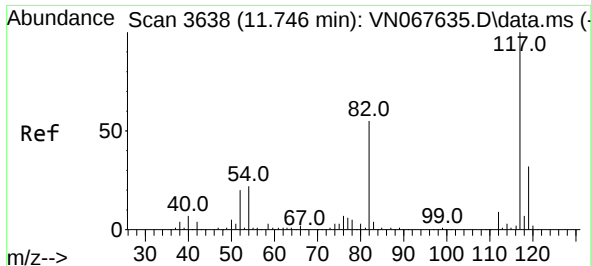
Tgt Ion:129 Resp: 221
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#



#62
4-Bromofluorobenzene
Concen: 50.018 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.001 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

Tgt Ion: 95 Resp: 272120
Ion Ratio Lower Upper
95 100
174 71.3 0.0 122.0
176 69.1 0.0 117.6

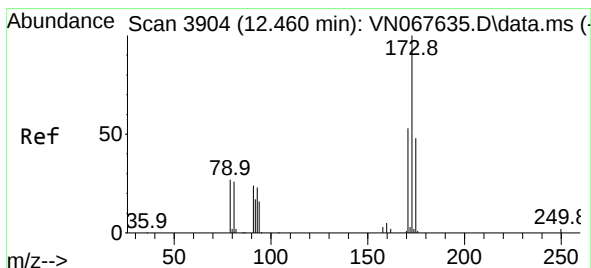
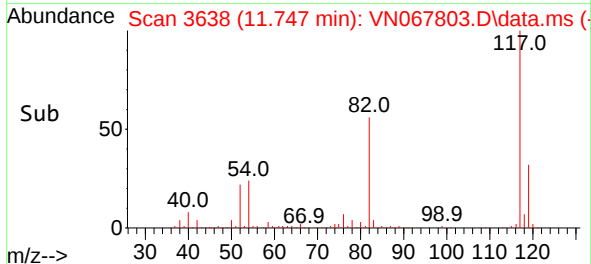
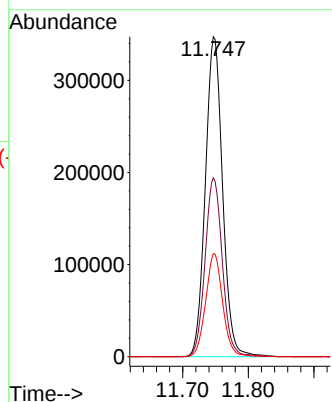
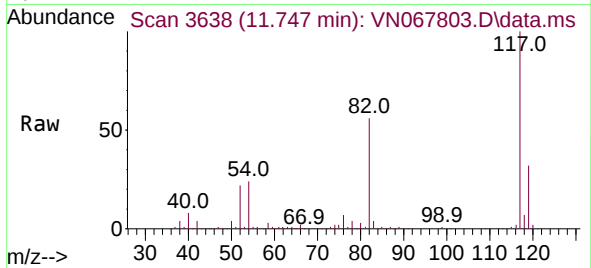




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

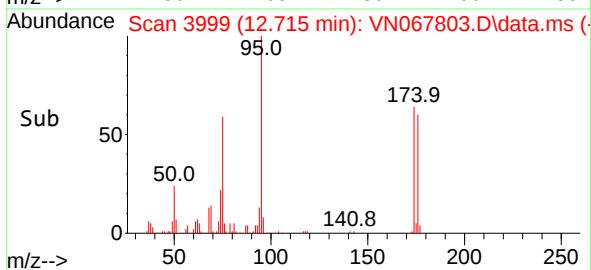
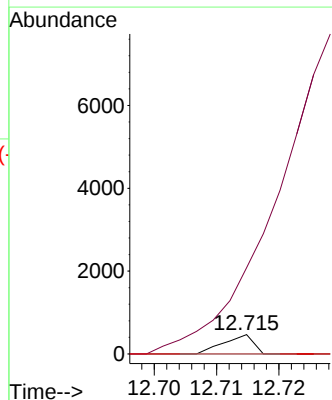
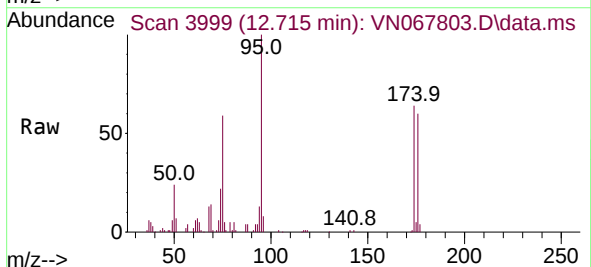
Instrument :
MSVOA_N
ClientSampled :

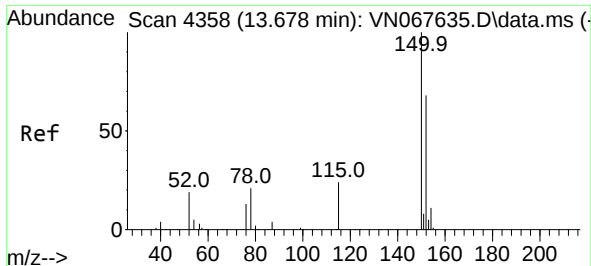
Tgt Ion:117 Resp: 633254
Ion Ratio Lower Upper
117 100
82 55.9 53.1 79.7
119 32.2 25.5 38.3



#71
Bromoform
Concen: 3.212 ug/l
RT: 12.715 min Scan# 3999
Delta R.T. 0.255 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

Tgt Ion:173 Resp: 155
Ion Ratio Lower Upper
173 100
175 0.0 23.9 71.8#
254 0.0 0.0 0.0

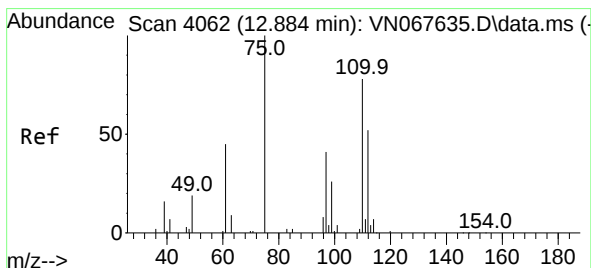
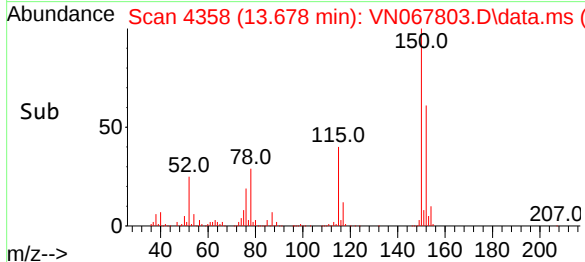
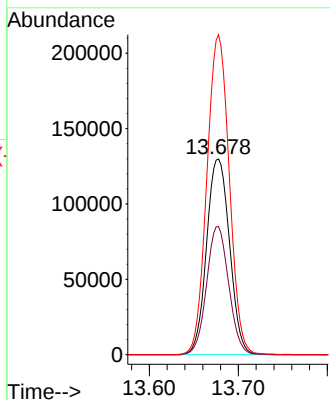
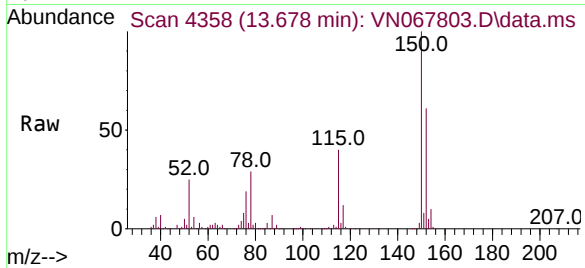




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. 0.000 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

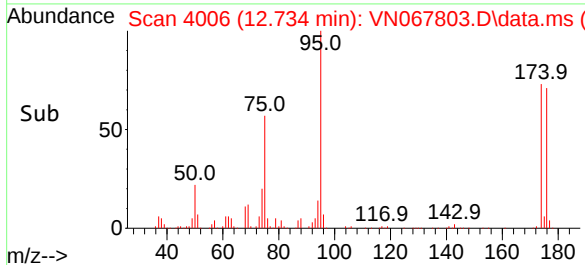
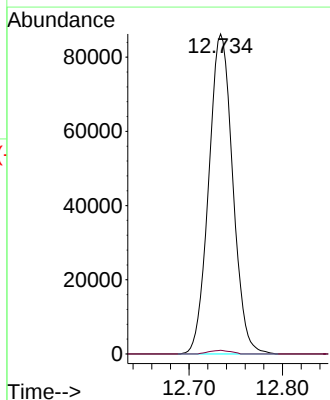
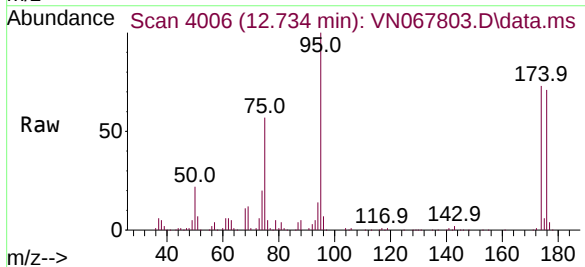
Instrument :
MSVOA_N
ClientSampled :

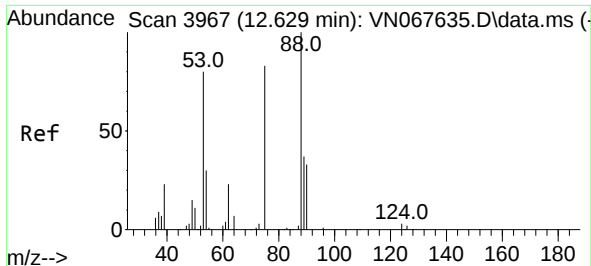
Tgt Ion:152 Resp: 233228
Ion Ratio Lower Upper
152 100
115 63.2 36.1 108.5
150 158.9 0.0 351.8



#76
1,2,3-Trichloropropane
Concen: 32.356 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.150 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

Tgt Ion: 75 Resp: 154110
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#

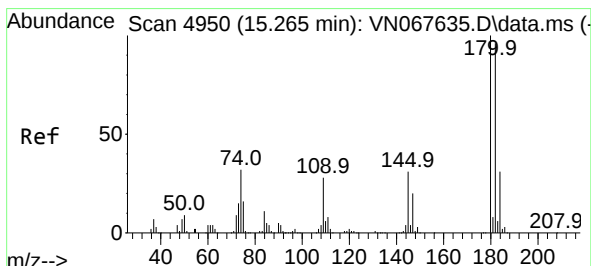
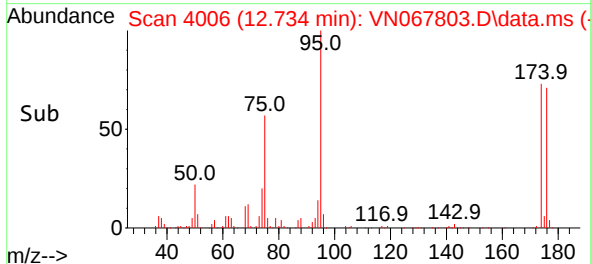
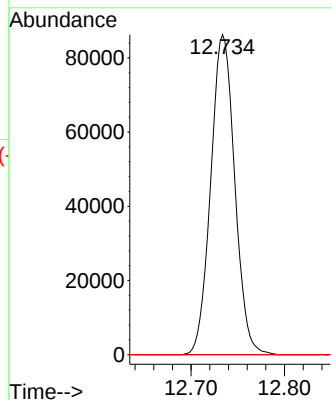
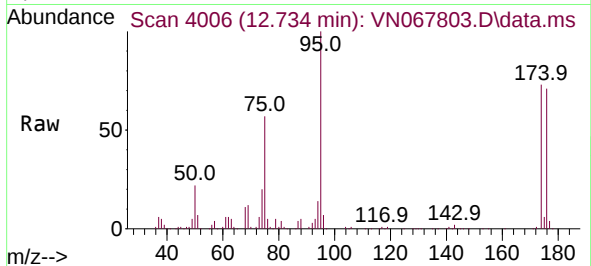




#81
trans-1,4-Dichloro-2-butene
Concen: 104.319 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.105 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

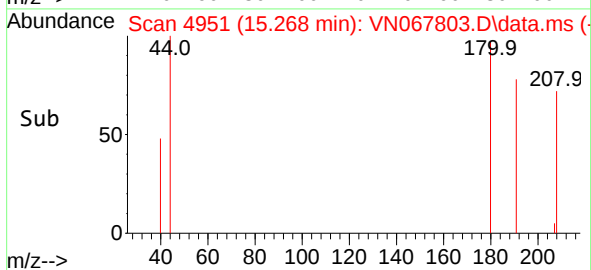
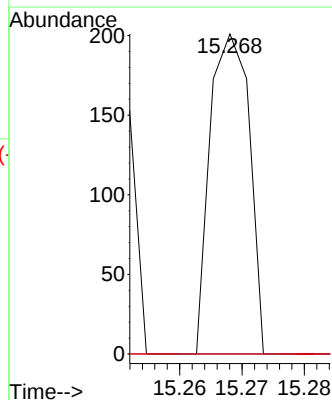
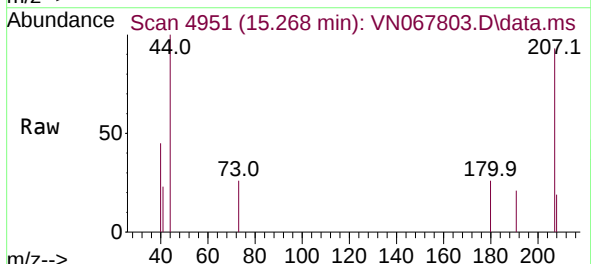
Instrument :
MSVOA_N
ClientSampled :

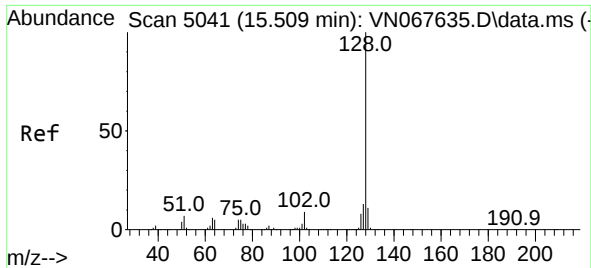
Tgt Ion: 75 Resp: 154110
Ion Ratio Lower Upper
75 100
53 0.0 87.6 131.4#
89 0.0 37.8 56.8#



#93
1,2,4-Trichlorobenzene
Concen: 2.696 ug/l
RT: 15.268 min Scan# 4951
Delta R.T. 0.003 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

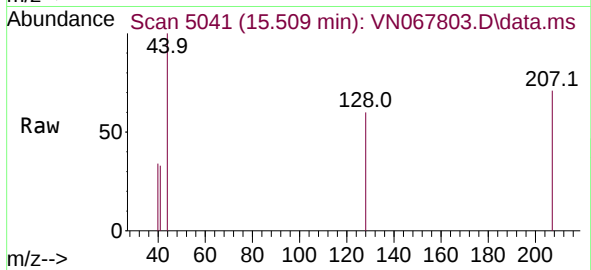
Tgt Ion:180 Resp: 88
Ion Ratio Lower Upper
180 100
182 0.0 47.5 142.5#
145 0.0 17.2 51.6#





#95
Naphthalene
Concen: 3.077 ug/l
RT: 15.509 min Scan# 5041
Delta R.T. 0.000 min
Lab File: VN067803.D
Acq: 19 Jul 2021 19:15

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:128 Resp: 782
Ion Ratio Lower Upper
128 100
127 0.0 10.6 15.8#
129 0.0 8.6 12.8#

