

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042621\
 Data File : VN066768.D
 Acq On : 26 Apr 2021 17:50
 Operator : JC/MD
 Sample : PB135974ZHE#04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 27 06:13:51 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042121W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 22 08:25:55 2021
 Response via : Initial Calibration

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

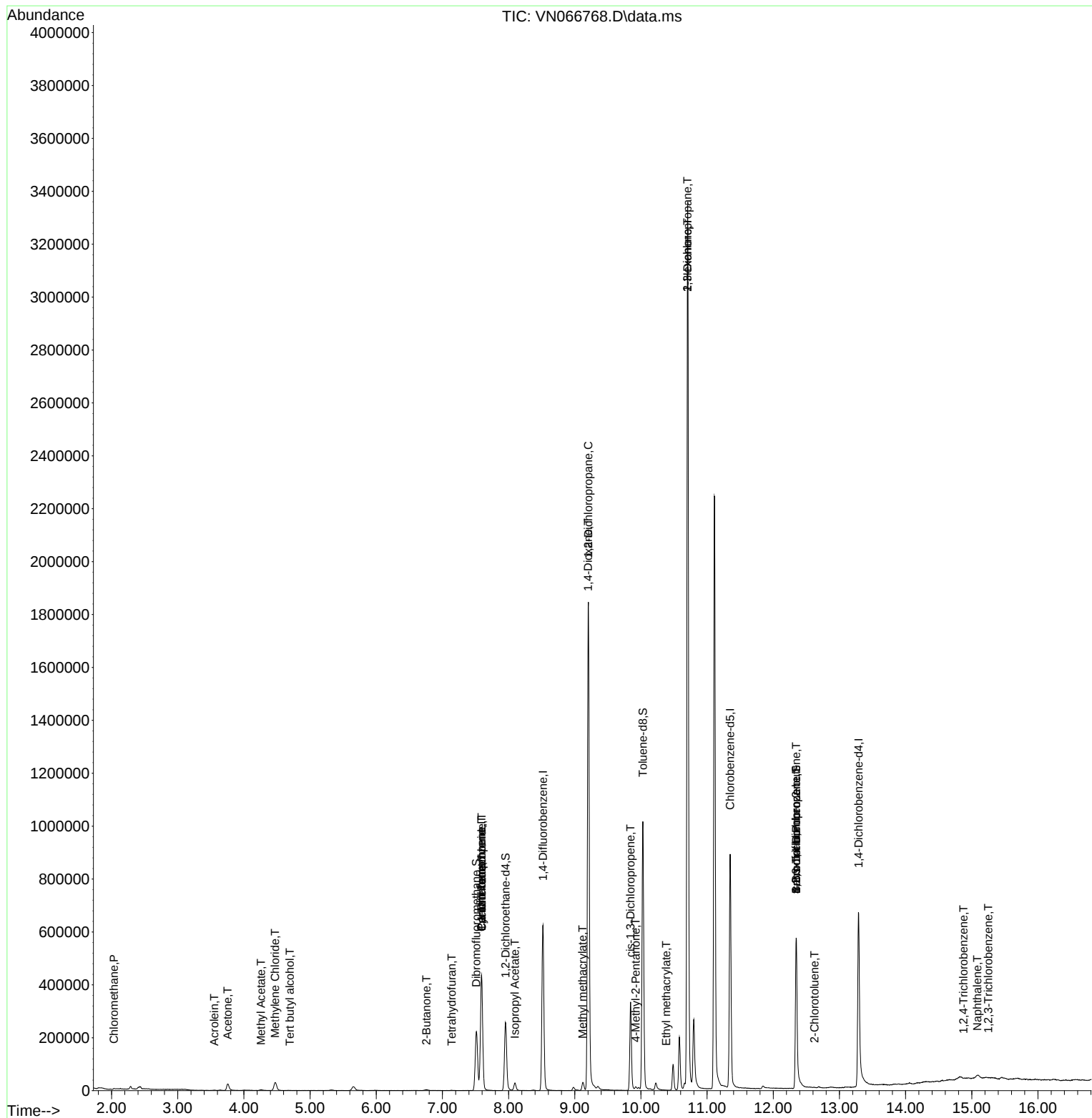
Internal Standards						
1) Pentafluorobenzene	7.591	168	375093	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.519	114	585607	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.348	117	523086	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.288	152	229691	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.953	65	228065	49.77	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	99.54%		
35) Dibromofluoromethane	7.513	113	180047	49.10	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	98.20%		
50) Toluene-d8	10.029	98	715290	50.02	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	100.04%		
62) 4-Bromofluorobenzene	12.346	95	237087	48.41	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	96.82%		
Target Compounds					Qvalue	
3) Chloromethane	2.037	50	1372	0.23	ug/l	89
11) Tert butyl alcohol	4.694	59	573	0.99	ug/l #	73
13) Acrolein	3.552	56	679	1.06	ug/l #	37
16) Acetone	3.756	43	43901	25.59	ug/l	96
18) Methyl Acetate	4.260	43	5800	1.22	ug/l #	68
20) Methylene Chloride	4.472	84	23689	4.64	ug/l	97
25) 2-Butanone	6.757	43	2922	1.19	ug/l	94
29) Tetrahydrofuran	7.140	42	657	0.39	ug/l #	35
31) Cyclohexane	7.594	56	7450	1.00	ug/l #	1
36) 1,1-Dichloropropene	7.591	75	27411	5.03	ug/l #	48
38) Carbon Tetrachloride	7.594	117	33546	6.47	ug/l #	17
43) Isopropyl Acetate	8.095	43	35963	3.94	ug/l #	88
45) 1,2-Dichloropropane	9.206	63	2389	0.50	ug/l #	44
48) Methyl methacrylate	9.117	41	7351	1.84	ug/l #	10
49) 1,4-Dioxane	9.200	88	118	2.44	ug/l #	1
51) 4-Methyl-2-Pentanone	9.922	43	9770	1.91	ug/l	91
54) cis-1,3-Dichloropropene	9.844	75	62775	8.93	ug/l #	62
56) Ethyl methacrylate	10.383	69	80	3.16	ug/l #	27
57) 1,3-Dichloropropane	10.705	76	34951	5.10	ug/l #	43
59) 2-Hexanone	10.705	43	499797	138.31	ug/l #	49
71) Bromoform	12.346	173	1476	0.50	ug/l #	1
76) 1,2,3-Trichloropropane	12.346	75	120896	24.60	ug/l #	100
79) 2-Chlorotoluene	12.622	91	506	0.98	ug/l #	40
81) trans-1,4-Dichloro-2-b...	12.346	75	120896	72.54	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.875	180	297	2.07	ug/l #	19
95) Naphthalene	15.084	128	678	1.91	ug/l #	92
96) 1,2,3-Trichlorobenzene	15.251	180	88	1.38	ug/l #	12

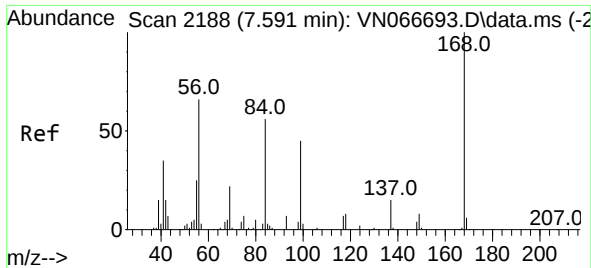
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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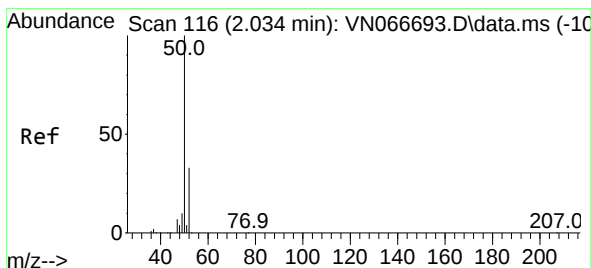
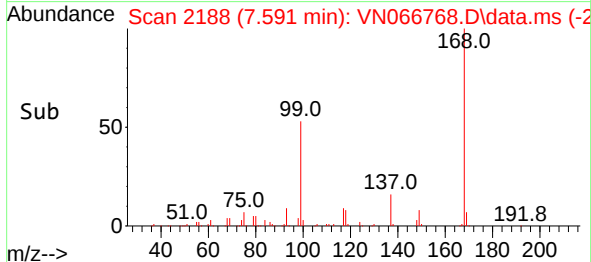
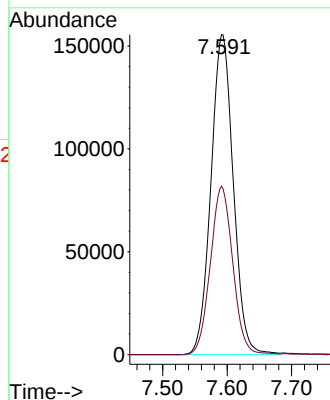
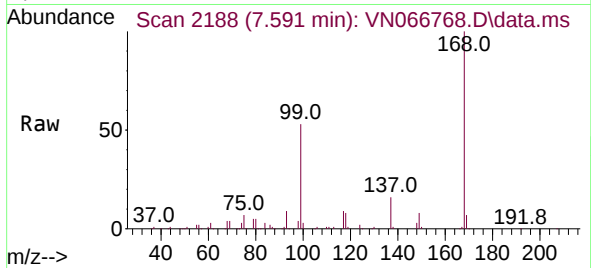




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.591 min Scan# 2188
Delta R.T. 0.000 min
Lab File: VN066768.D
Acq: 26 Apr 2021 17:50

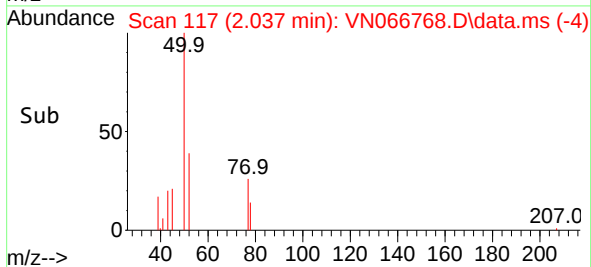
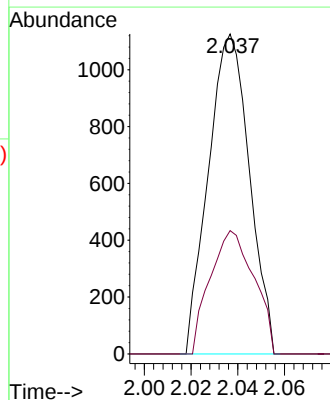
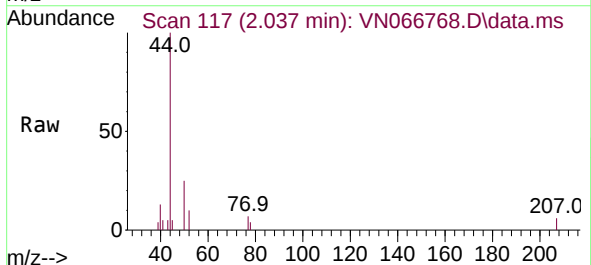
Instrument :
MSVOA_N
ClientSampled :

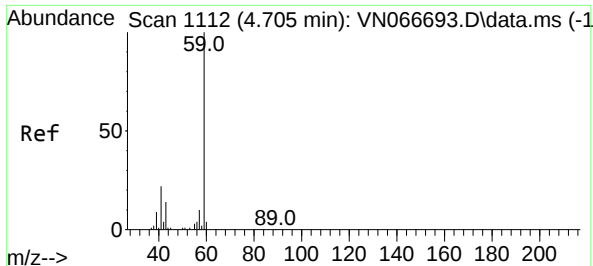
Tgt Ion:168 Resp: 375093
Ion Ratio Lower Upper
168 100
99 52.6 42.6 63.8



#3
Chloromethane
Concen: 0.23 ug/l
RT: 2.037 min Scan# 117
Delta R.T. 0.003 min
Lab File: VN066768.D
Acq: 26 Apr 2021 17:50

Tgt Ion: 50 Resp: 1372
Ion Ratio Lower Upper
50 100
52 38.5 25.8 38.8



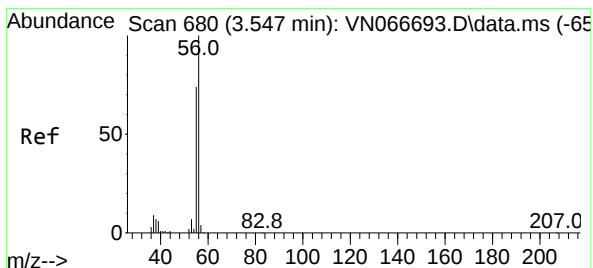
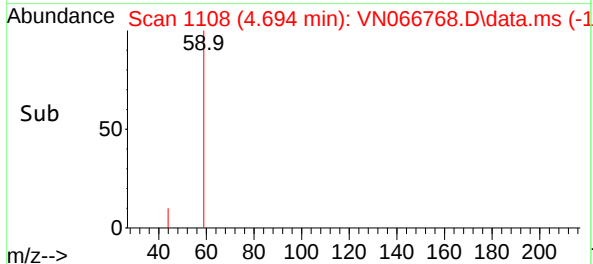
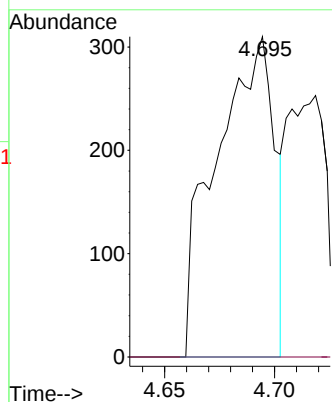
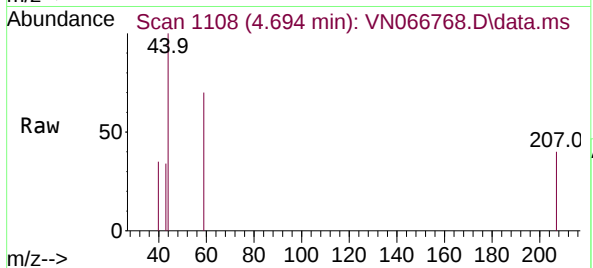


#11

Tert butyl alcohol
Concen: 0.99 ug/l
RT: 4.694 min Scan# 1108
Delta R.T. -0.011 min
Lab File: VN066768.D
Acq: 26 Apr 2021 17:50

Instrument :
MSVOA_N
ClientSampled :

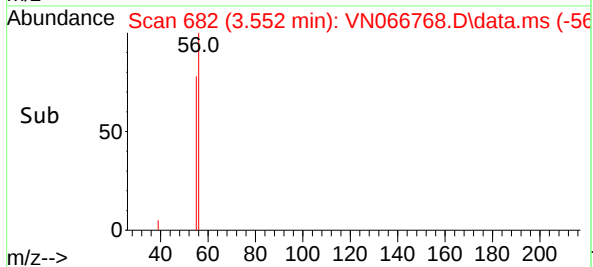
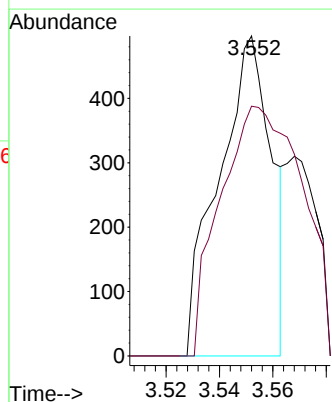
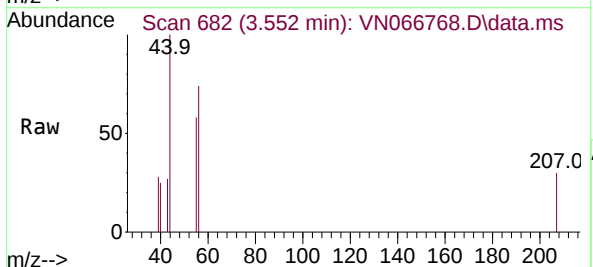
Tgt Ion: 59 Resp: 573
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#

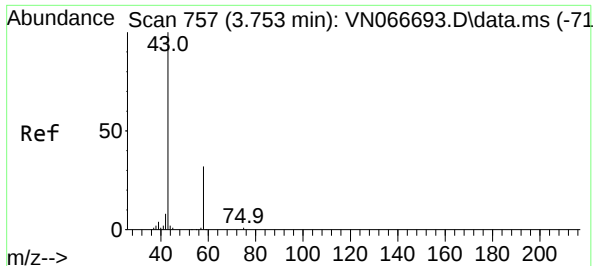


#13

Acrolein
Concen: 1.06 ug/l
RT: 3.552 min Scan# 682
Delta R.T. 0.005 min
Lab File: VN066768.D
Acq: 26 Apr 2021 17:50

Tgt Ion: 56 Resp: 679
Ion Ratio Lower Upper
56 100
55 122.1 56.0 84.0#

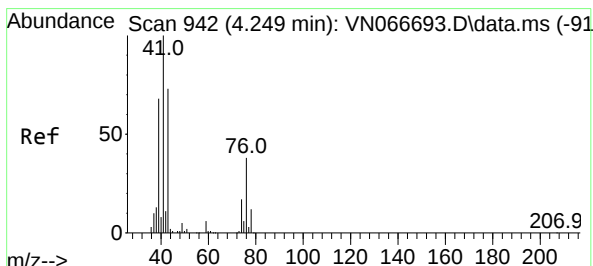
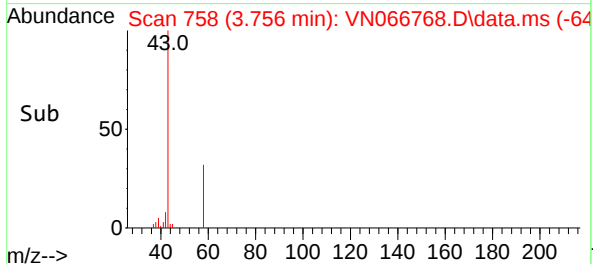
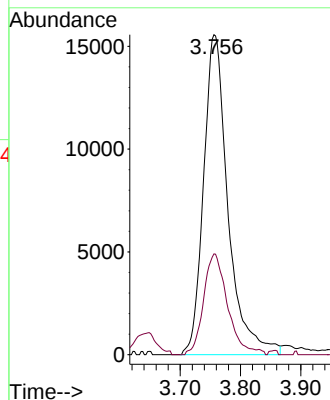
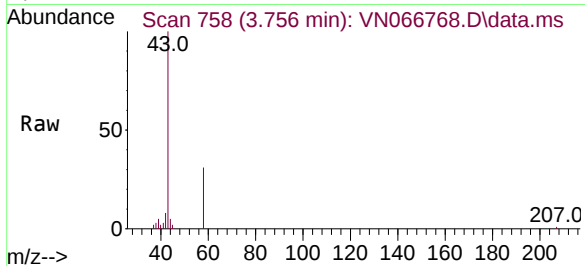




#16
Acetone
Concen: 25.59 ug/l
RT: 3.756 min Scan# 758
Delta R.T. 0.003 min
Lab File: VN066768.D
Acq: 26 Apr 2021 17:50

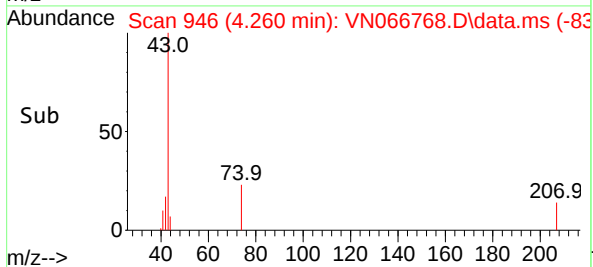
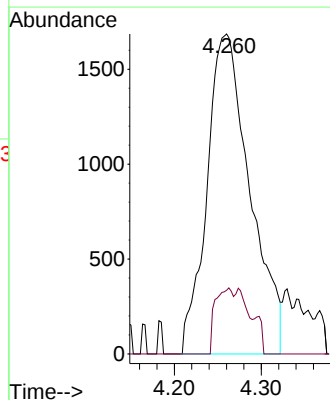
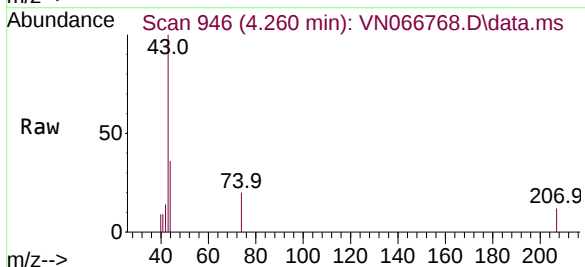
Instrument :
MSVOA_N
ClientSampled :

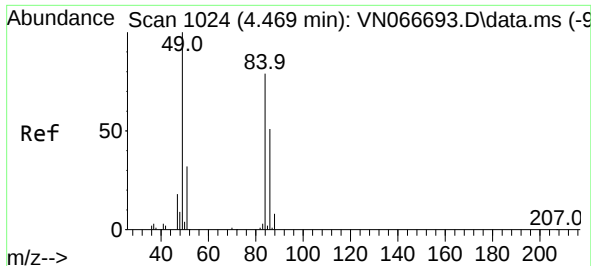
Tgt Ion: 43 Resp: 43901
Ion Ratio Lower Upper
43 100
58 31.5 27.0 40.6



#18
Methyl Acetate
Concen: 1.22 ug/l
RT: 4.260 min Scan# 946
Delta R.T. 0.011 min
Lab File: VN066768.D
Acq: 26 Apr 2021 17:50

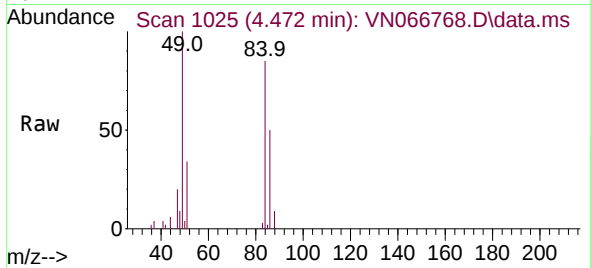
Tgt Ion: 43 Resp: 5800
Ion Ratio Lower Upper
43 100
74 8.6 19.5 29.3#



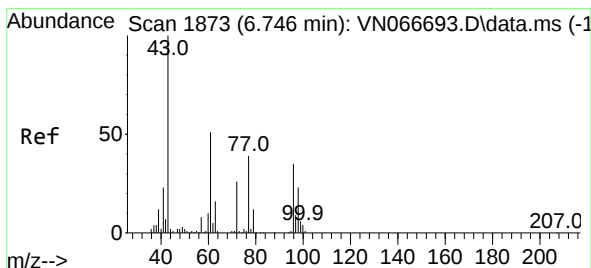
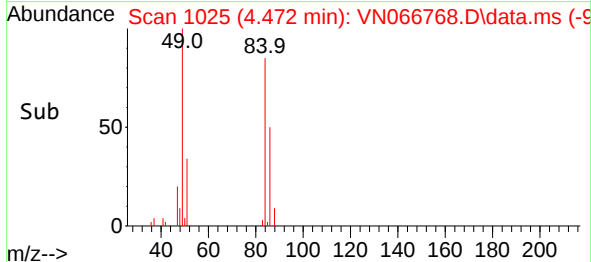
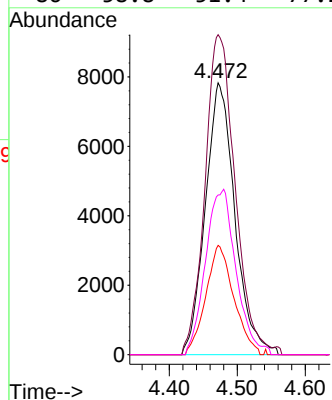


#20
Methylene Chloride
Concen: 4.64 ug/l
RT: 4.472 min Scan# 1025
Delta R.T. 0.003 min
Lab File: VN066768.D
Acq: 26 Apr 2021 17:50

Instrument :
MSVOA_N
ClientSampled :

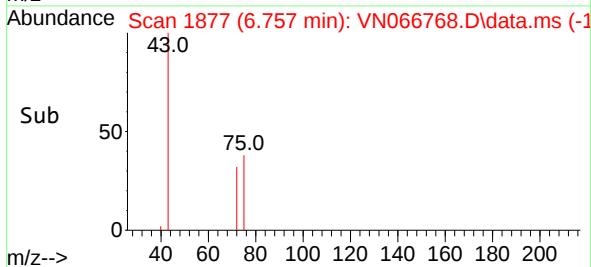
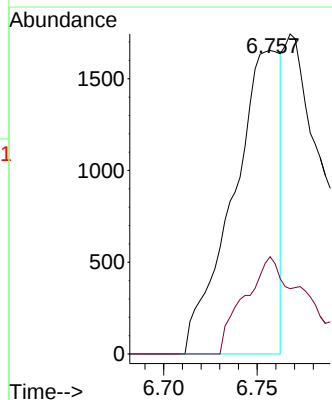
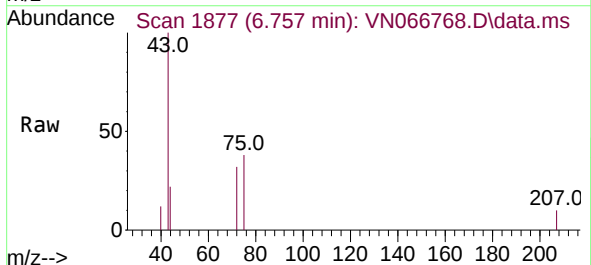


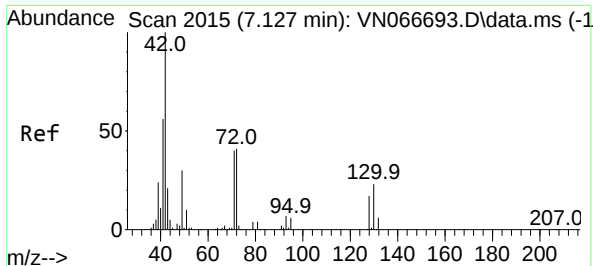
Tgt Ion:	84	Resp:	23689
Ion	Ratio	Lower	Upper
84	100		
49	117.7	94.6	141.8
51	40.2	29.9	44.9
86	58.8	51.4	77.2



#25
2-Butanone
Concen: 1.19 ug/l
RT: 6.757 min Scan# 1877
Delta R.T. 0.011 min
Lab File: VN066768.D
Acq: 26 Apr 2021 17:50

Tgt Ion:	43	Resp:	2922
Ion	Ratio	Lower	Upper
43	100		
72	32.0	23.1	34.7

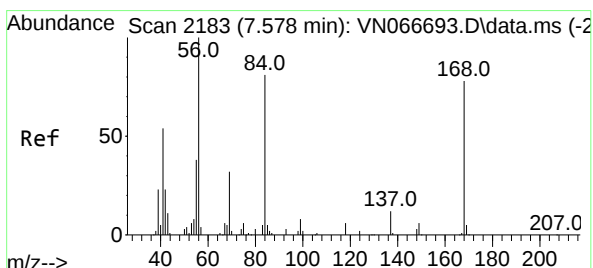
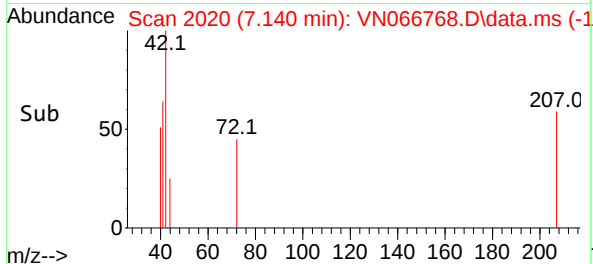
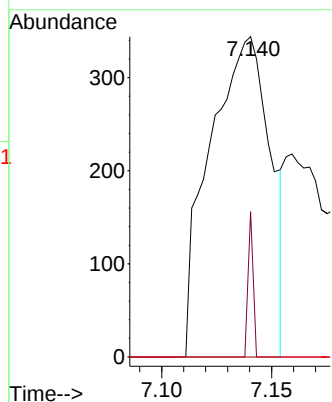
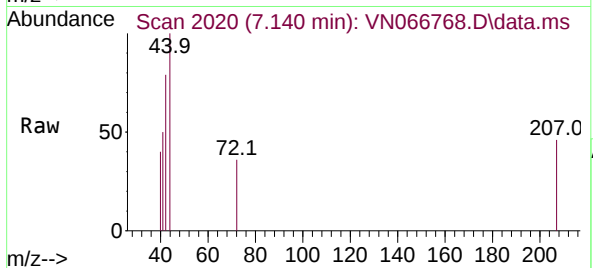




#29
Tetrahydrofuran
Concen: 0.39 ug/l
RT: 7.140 min Scan# 2020
Delta R.T. 0.013 min
Lab File: VN066768.D
Acq: 26 Apr 2021 17:50

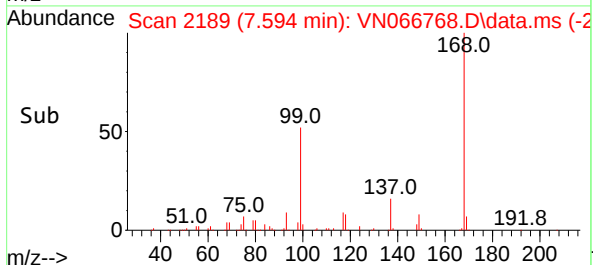
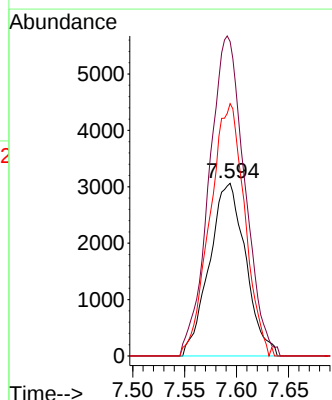
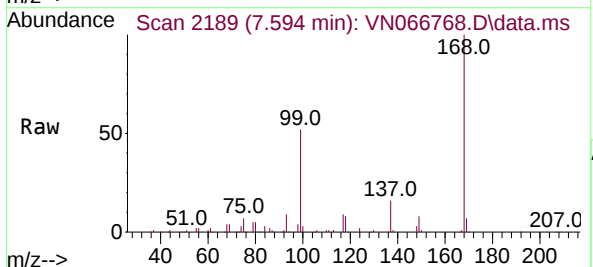
Instrument :
MSVOA_N
ClientSampled :

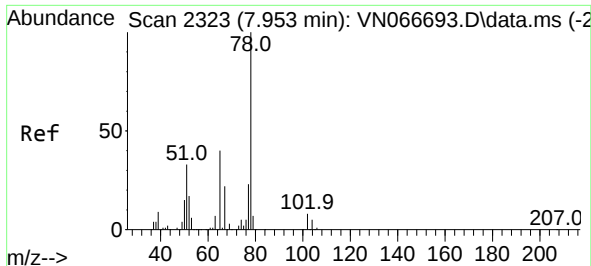
Tgt Ion: 42 Resp: 657
Ion Ratio Lower Upper
42 100
72 3.8 36.6 55.0#
71 0.0 34.3 51.5#



#31
Cyclohexane
Concen: 1.00 ug/l
RT: 7.594 min Scan# 2189
Delta R.T. 0.016 min
Lab File: VN066768.D
Acq: 26 Apr 2021 17:50

Tgt Ion: 56 Resp: 7450
Ion Ratio Lower Upper
56 100
69 182.1 26.6 39.8#
84 146.1 70.4 105.6#

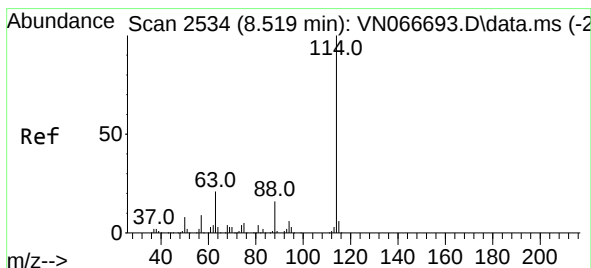
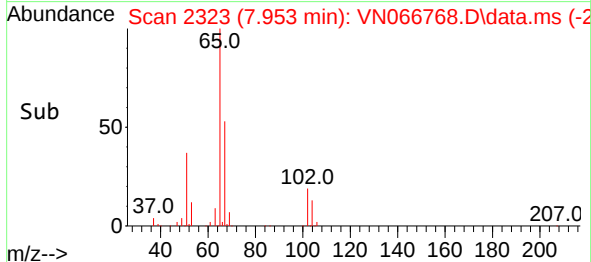
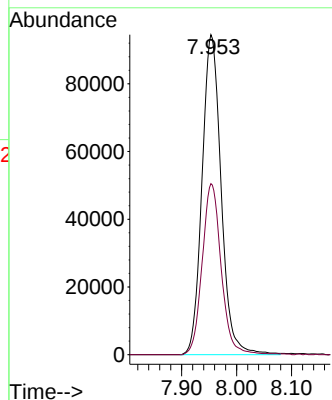
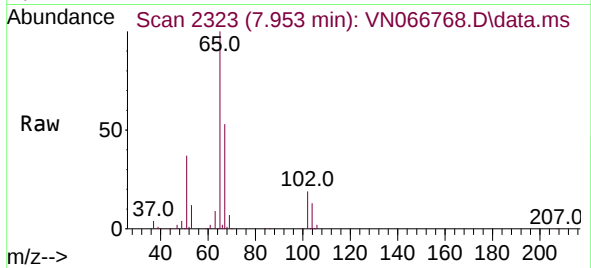




#33
1,2-Dichloroethane-d4
Concen: 49.77 ug/l
RT: 7.953 min Scan# 2323
Delta R.T. 0.000 min
Lab File: VN066768.D
Acq: 26 Apr 2021 17:50

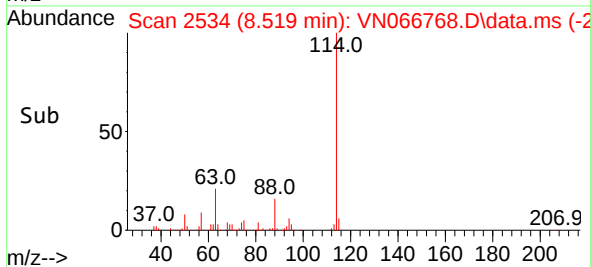
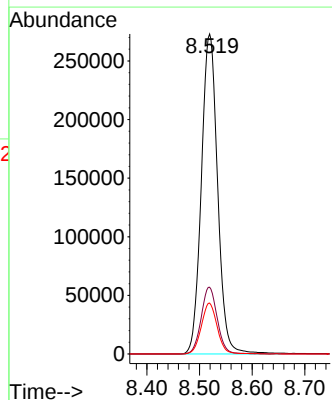
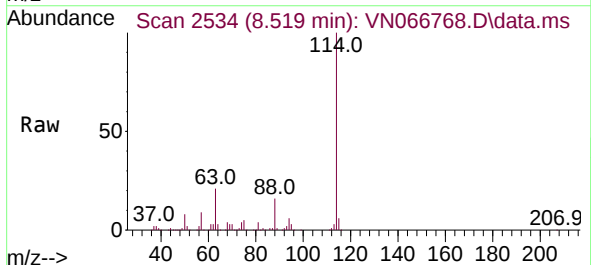
Instrument :
MSVOA_N
ClientSampled :

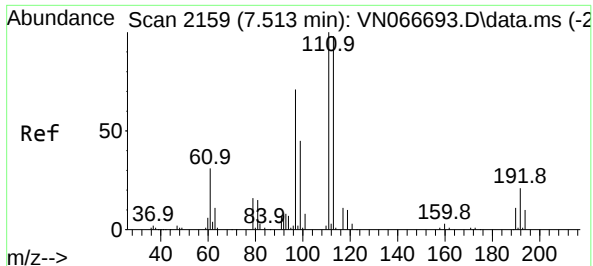
Tgt Ion: 65 Resp: 228065
Ion Ratio Lower Upper
65 100
67 53.1 0.0 107.2



#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.519 min Scan# 2534
Delta R.T. -0.000 min
Lab File: VN066768.D
Acq: 26 Apr 2021 17:50

Tgt Ion: 114 Resp: 585607
Ion Ratio Lower Upper
114 100
63 20.9 0.0 38.6
88 15.9 0.0 30.6

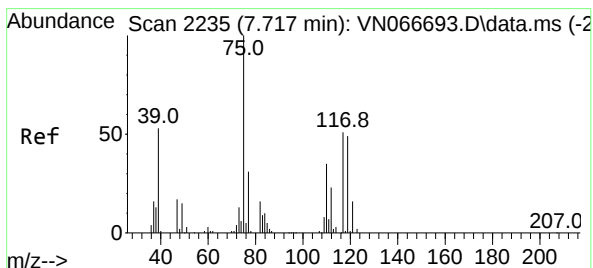
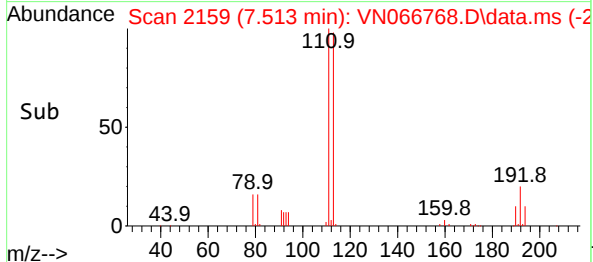
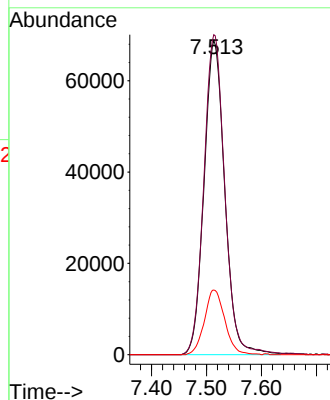
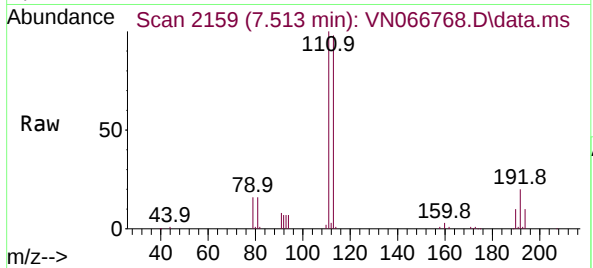




#35
Dibromofluoromethane
Concen: 49.10 ug/l
RT: 7.513 min Scan# 2159
Delta R.T. 0.000 min
Lab File: VN066768.D
Acq: 26 Apr 2021 17:50

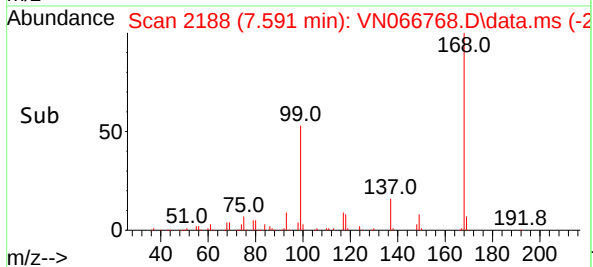
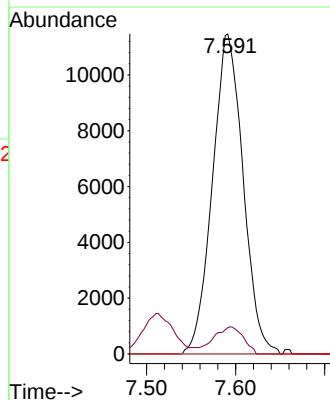
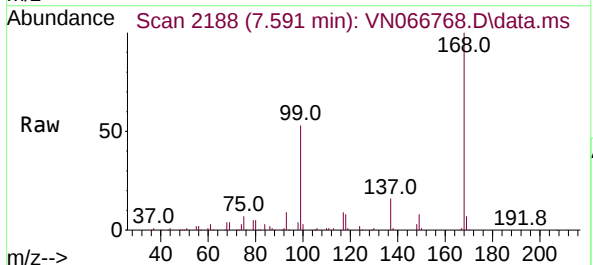
Instrument :
MSVOA_N
ClientSampled :

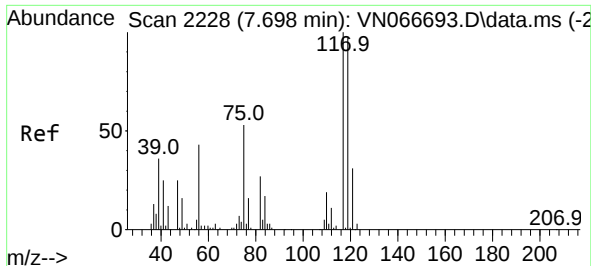
Tgt Ion:113 Resp: 180047
Ion Ratio Lower Upper
113 100
111 102.6 82.2 123.2
192 20.3 15.4 23.0



#36
1,1-Dichloropropene
Concen: 5.03 ug/l
RT: 7.591 min Scan# 2188
Delta R.T. -0.126 min
Lab File: VN066768.D
Acq: 26 Apr 2021 17:50

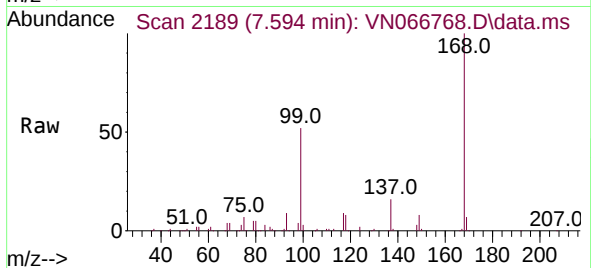
Tgt Ion: 75 Resp: 27411
Ion Ratio Lower Upper
75 100
110 8.2 18.2 54.6#
77 0.0 24.9 37.3#



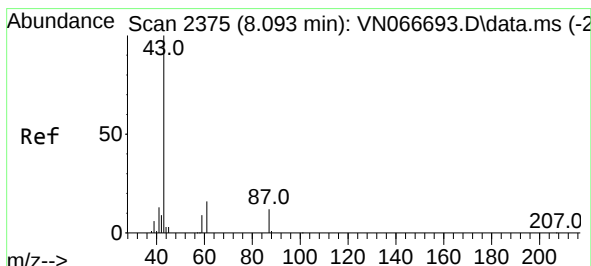
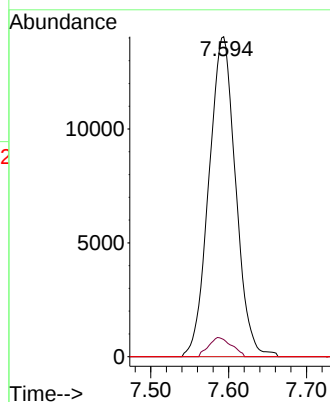
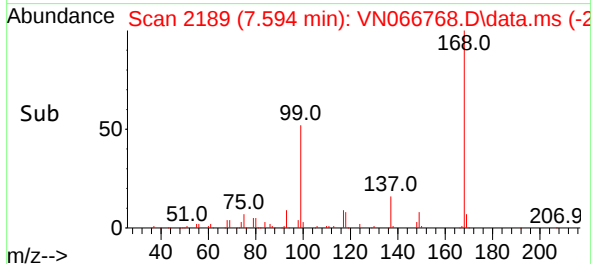


#38
Carbon Tetrachloride
Concen: 6.47 ug/l
RT: 7.594 min Scan# 2189
Delta R.T. -0.104 min
Lab File: VN066768.D
Acq: 26 Apr 2021 17:50

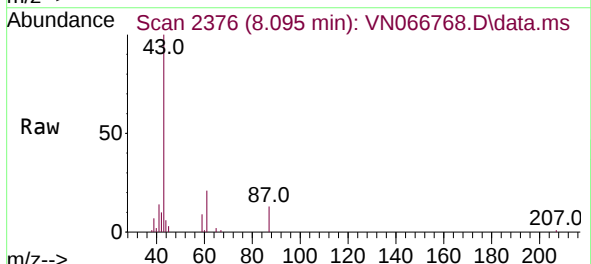
Instrument :
MSVOA_N
ClientSampleId :



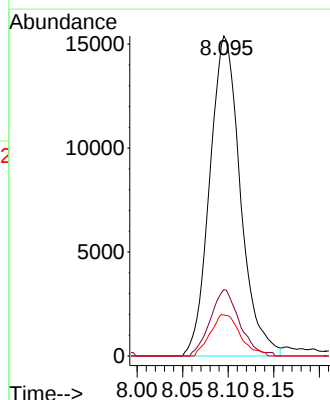
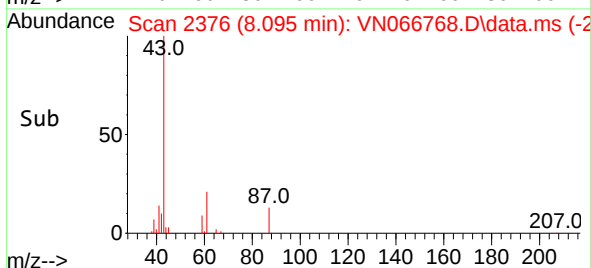
Tgt Ion:117 Resp: 33546
Ion Ratio Lower Upper
117 100
119 5.4 76.0 114.0#
121 0.0 24.5 36.7#

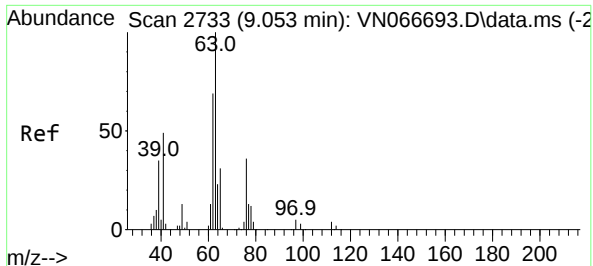


#43
Isopropyl Acetate
Concen: 3.94 ug/l
RT: 8.095 min Scan# 2376
Delta R.T. 0.002 min
Lab File: VN066768.D
Acq: 26 Apr 2021 17:50



Tgt Ion: 43 Resp: 35963
Ion Ratio Lower Upper
43 100
61 19.8 22.5 33.7#
87 12.5 11.1 16.7

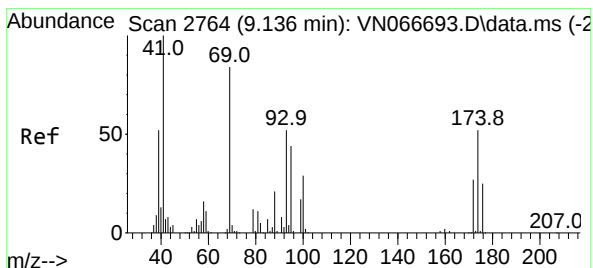
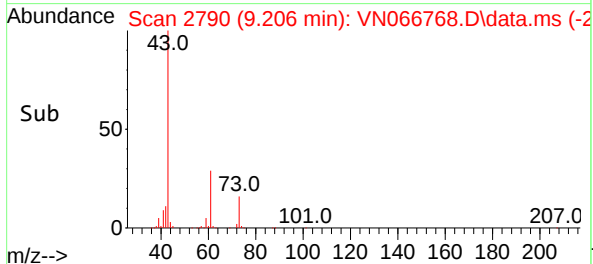
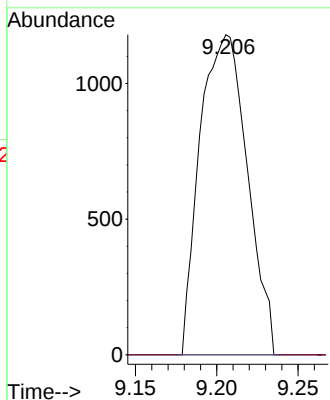
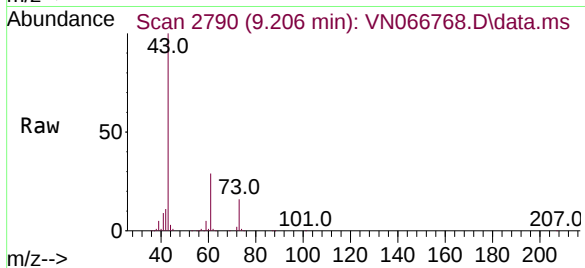




#45
1,2-Dichloropropane
Concen: 0.50 ug/l
RT: 9.206 min Scan# 2790
Delta R.T. 0.153 min
Lab File: VN066768.D
Acq: 26 Apr 2021 17:50

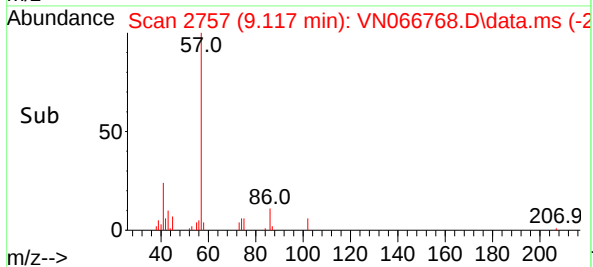
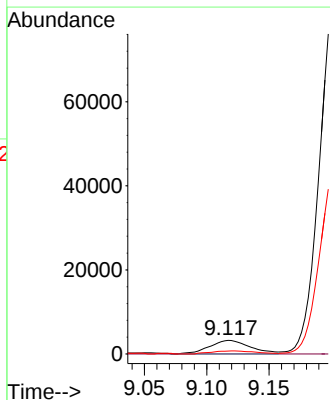
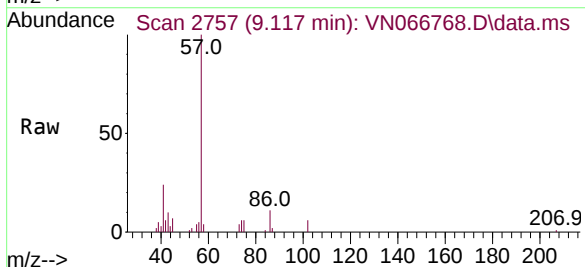
Instrument :
MSVOA_N
ClientSampled :

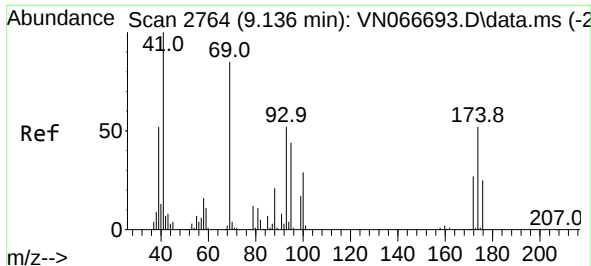
Tgt Ion: 63 Resp: 2389
Ion Ratio Lower Upper
63 100
65 0.0 24.9 37.3#



#48
Methyl methacrylate
Concen: 1.84 ug/l
RT: 9.117 min Scan# 2757
Delta R.T. -0.019 min
Lab File: VN066768.D
Acq: 26 Apr 2021 17:50

Tgt Ion: 41 Resp: 7351
Ion Ratio Lower Upper
41 100
69 0.0 75.9 113.9#
39 0.0 46.6 69.8#





#49

1,4-Dioxane

Concen: 2.44 ug/l

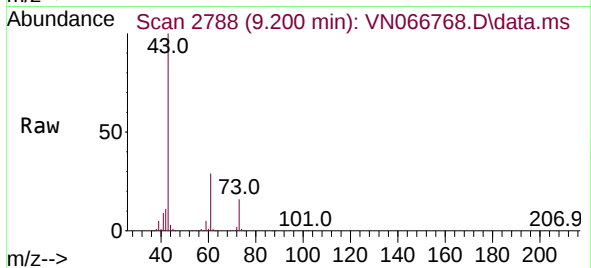
RT: 9.200 min Scan# 2788

Delta R.T. 0.064 min

Lab File: VN066768.D

Acq: 26 Apr 2021 17:50

Instrument :
MSVOA_N
ClientSampled :



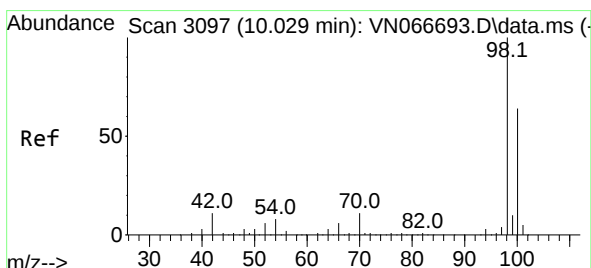
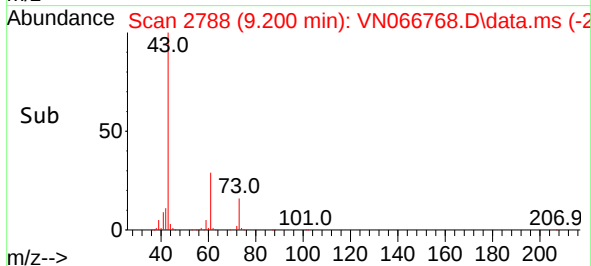
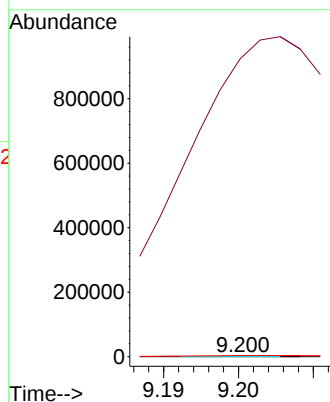
Tgt Ion: 88 Resp: 118

Ion Ratio Lower Upper

88 100

43 1609049.2 24.7 37.1#

58 6059.3 52.6 78.8#



#50

Toluene-d8

Concen: 50.02 ug/l

RT: 10.029 min Scan# 3097

Delta R.T. -0.000 min

Lab File: VN066768.D

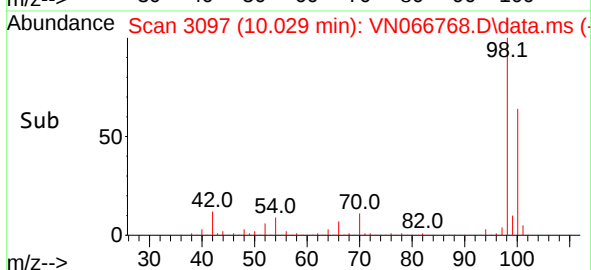
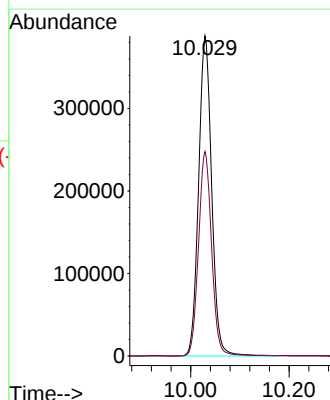
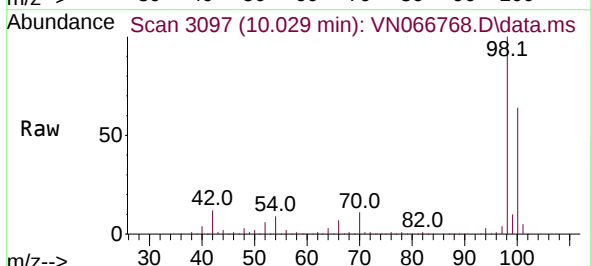
Acq: 26 Apr 2021 17:50

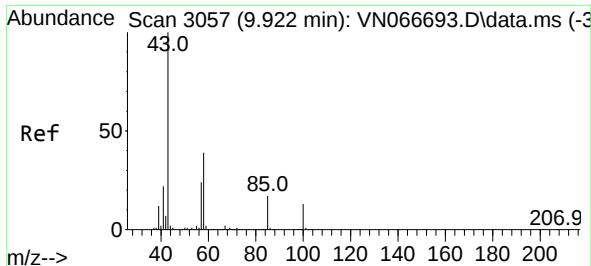
Tgt Ion: 98 Resp: 715290

Ion Ratio Lower Upper

98 100

100 63.8 50.5 75.7

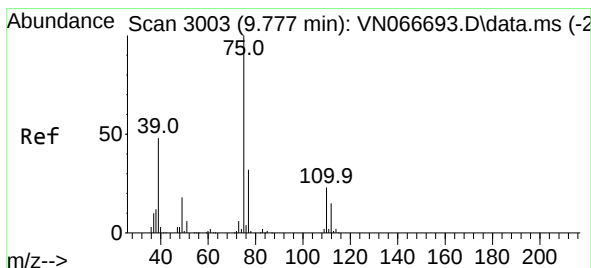
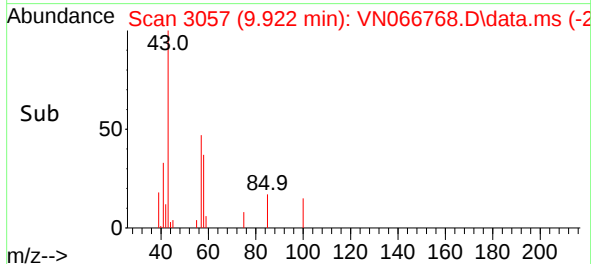
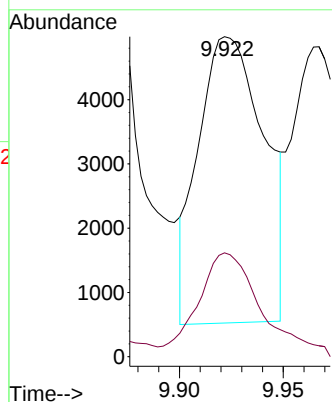
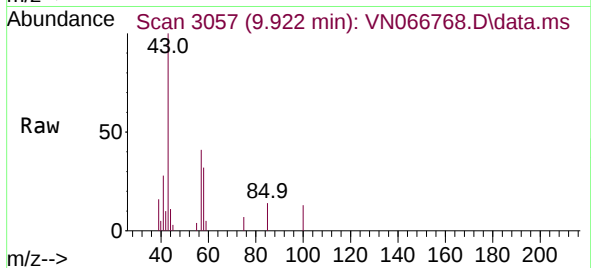




#51
4-Methyl-2-Pentanone
Concen: 1.91 ug/l
RT: 9.922 min Scan# 3057
Delta R.T. -0.000 min
Lab File: VN066768.D
Acq: 26 Apr 2021 17:50

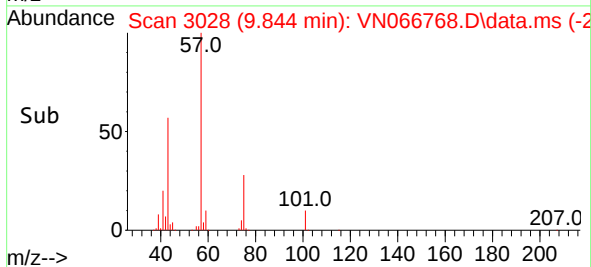
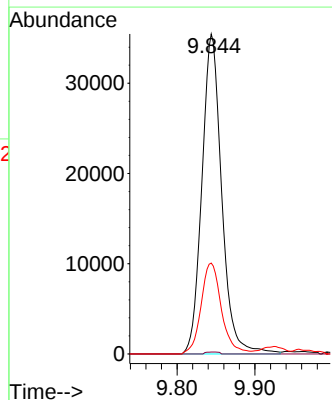
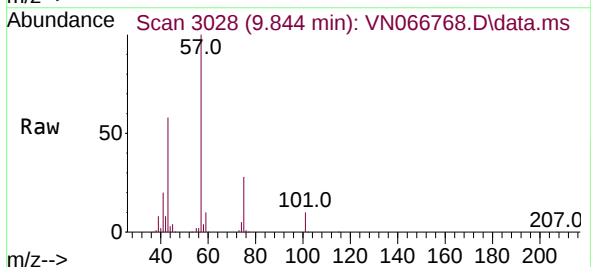
Instrument :
MSVOA_N
ClientSampleId :

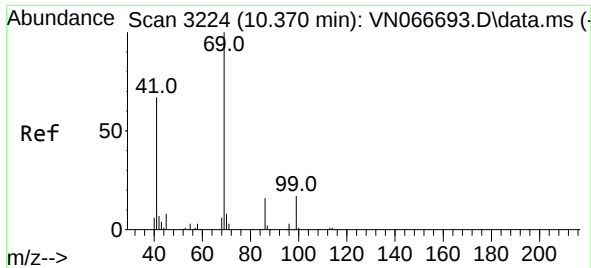
Tgt Ion: 43 Resp: 9770
Ion Ratio Lower Upper
43 100
58 35.2 32.5 48.7



#54
cis-1,3-Dichloropropene
Concen: 8.93 ug/l
RT: 9.844 min Scan# 3028
Delta R.T. 0.067 min
Lab File: VN066768.D
Acq: 26 Apr 2021 17:50

Tgt Ion: 75 Resp: 62775
Ion Ratio Lower Upper
75 100
77 0.6 24.9 37.3#
39 28.4 36.2 54.4#

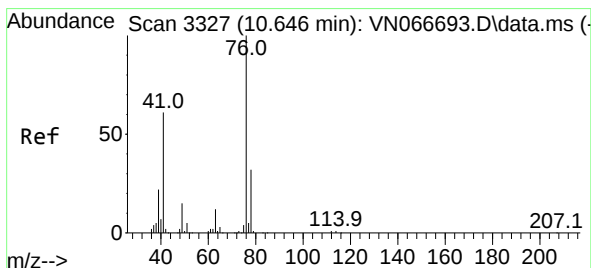
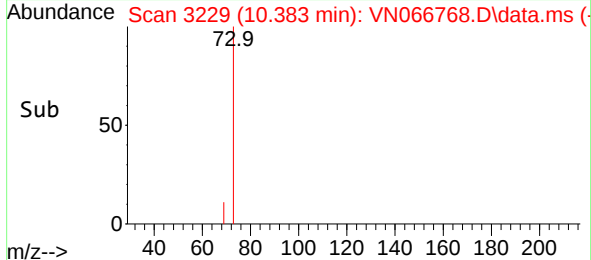
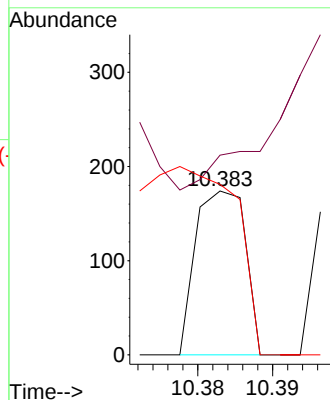
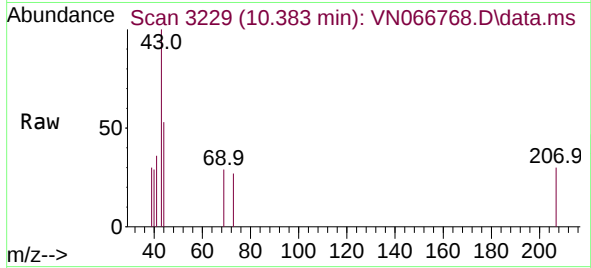




#56
Ethyl methacrylate
Concen: 3.16 ug/l
RT: 10.383 min Scan# 3229
Delta R.T. 0.013 min
Lab File: VN066768.D
Acq: 26 Apr 2021 17:50

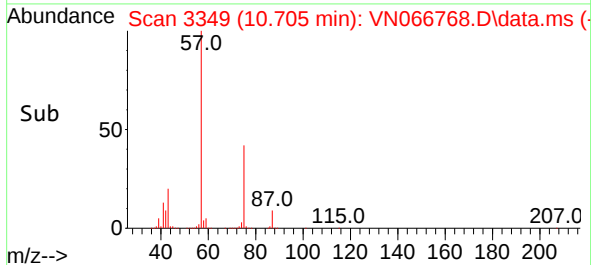
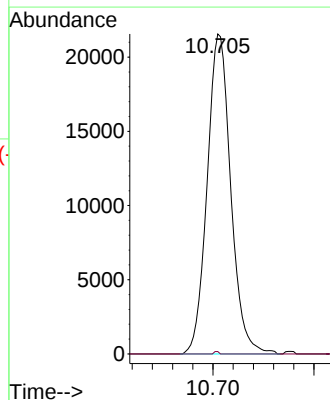
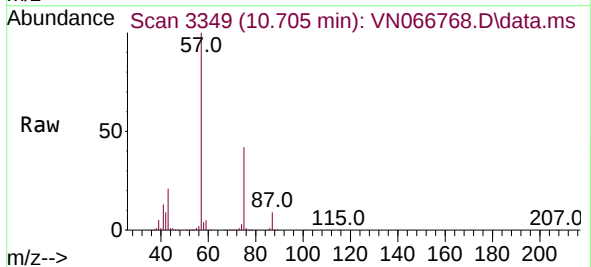
Instrument :
MSVOA_N
ClientSampled :

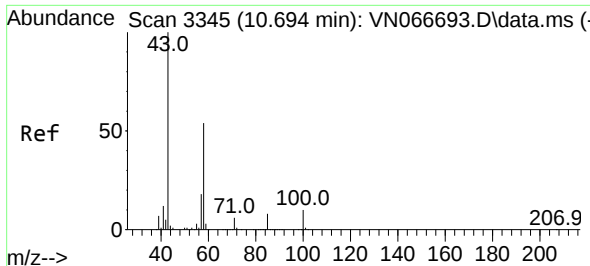
Tgt Ion: 69 Resp: 80
Ion Ratio Lower Upper
69 100
41 0.0 49.6 74.4#
39 0.0 28.0 42.0#



#57
1,3-Dichloropropane
Concen: 5.10 ug/l
RT: 10.705 min Scan# 3349
Delta R.T. 0.059 min
Lab File: VN066768.D
Acq: 26 Apr 2021 17:50

Tgt Ion: 76 Resp: 34951
Ion Ratio Lower Upper
76 100
78 0.1 25.7 38.5#

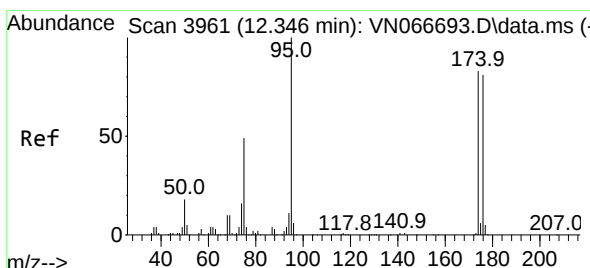
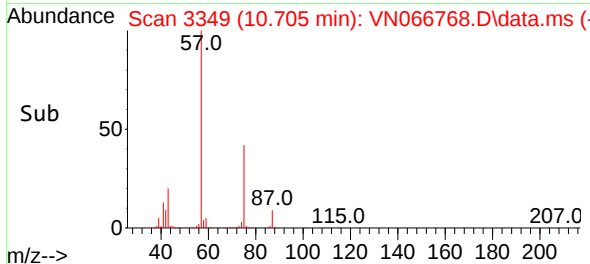
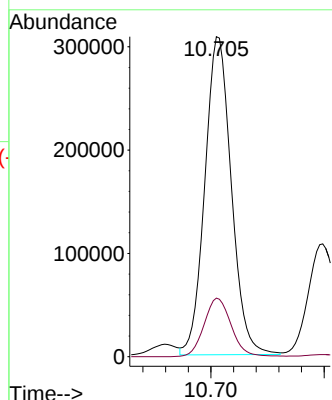
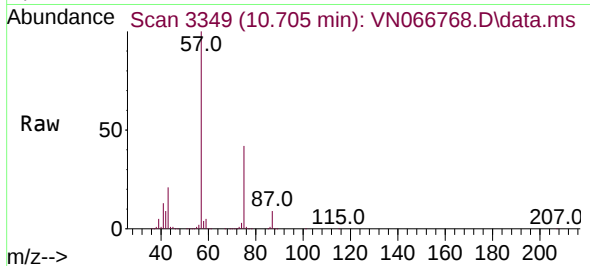




#59
2-Hexanone
Concen: 138.31 ug/l
RT: 10.705 min Scan# 3349
Delta R.T. 0.011 min
Lab File: VN066768.D
Acq: 26 Apr 2021 17:50

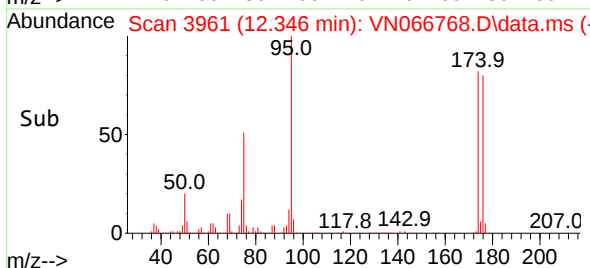
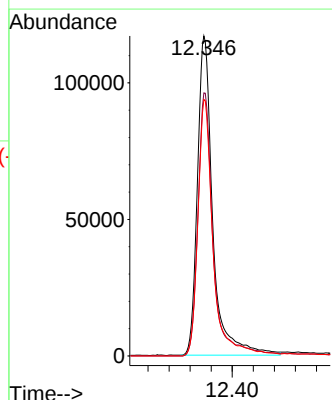
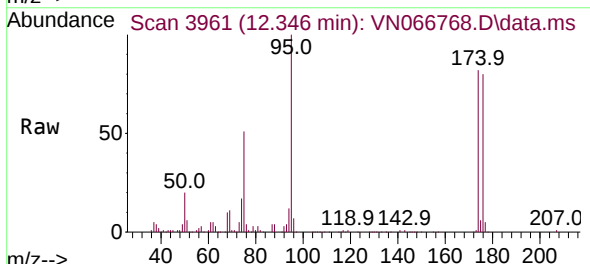
Instrument :
MSVOA_N
ClientSampled :

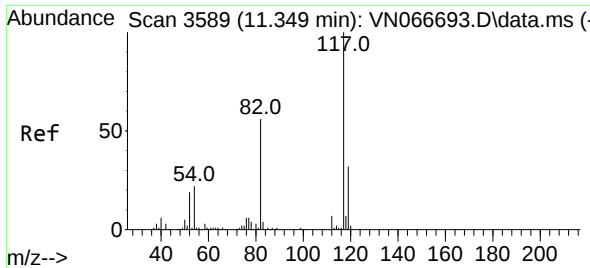
Tgt Ion: 43 Resp: 499797
Ion Ratio Lower Upper
43 100
58 18.9 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: 48.41 ug/l
RT: 12.346 min Scan# 3961
Delta R.T. 0.000 min
Lab File: VN066768.D
Acq: 26 Apr 2021 17:50

Tgt Ion: 95 Resp: 237087
Ion Ratio Lower Upper
95 100
174 81.0 0.0 169.0
176 78.4 0.0 162.4

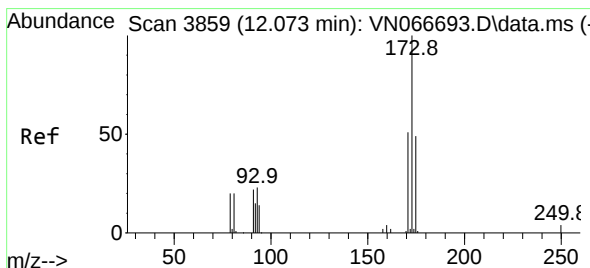
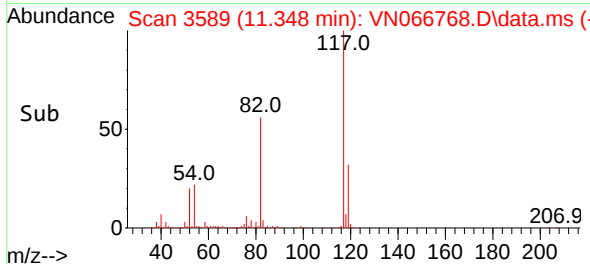
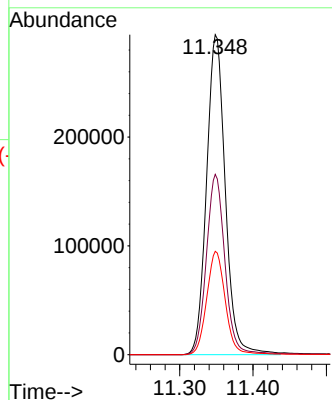
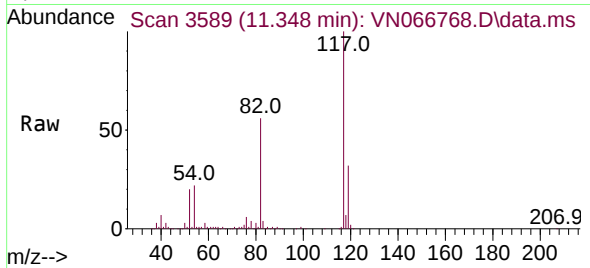




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.348 min Scan# 3589
Delta R.T. -0.001 min
Lab File: VN066768.D
Acq: 26 Apr 2021 17:50

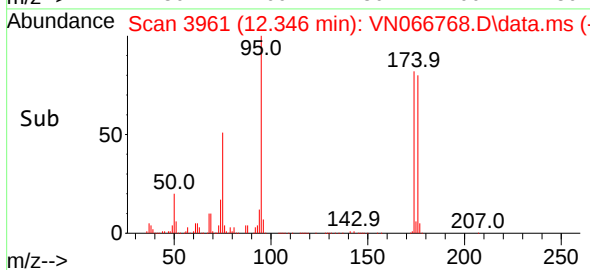
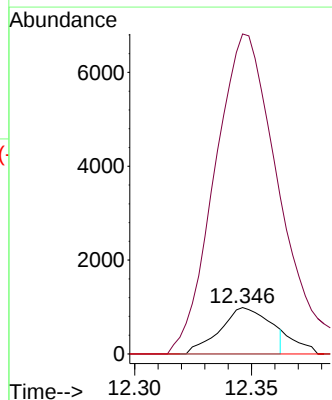
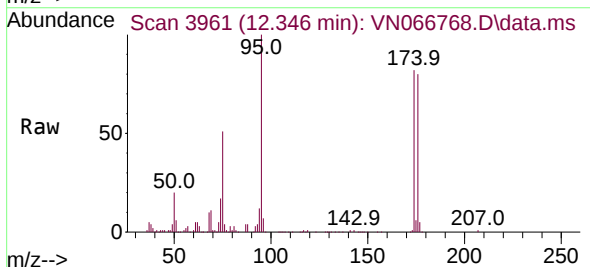
Instrument :
MSVOA_N
ClientSampled :

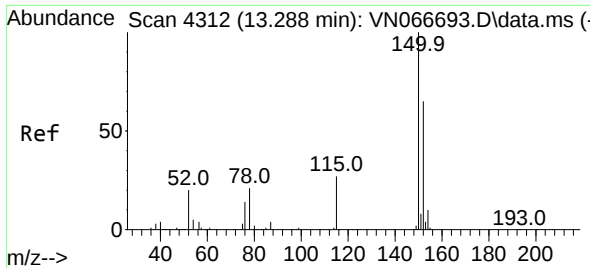
Tgt Ion:117 Resp: 523086
Ion Ratio Lower Upper
117 100
82 56.4 43.7 65.5
119 32.3 26.1 39.1



#71
Bromoform
Concen: 0.50 ug/l
RT: 12.346 min Scan# 3961
Delta R.T. 0.273 min
Lab File: VN066768.D
Acq: 26 Apr 2021 17:50

Tgt Ion:173 Resp: 1476
Ion Ratio Lower Upper
173 100
175 757.7 23.8 71.2#
254 0.0 0.0 0.0

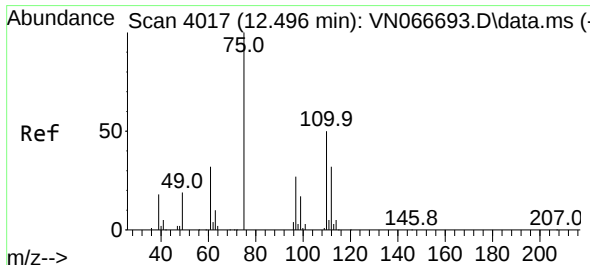
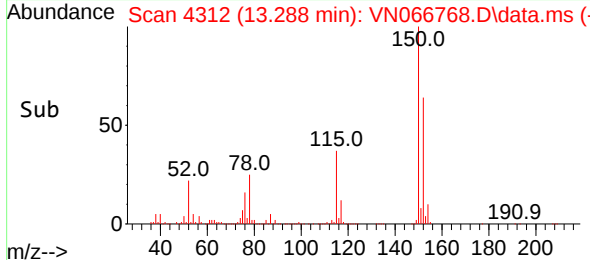
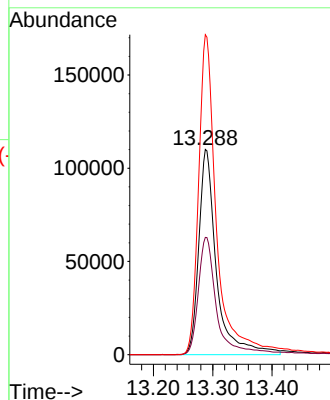
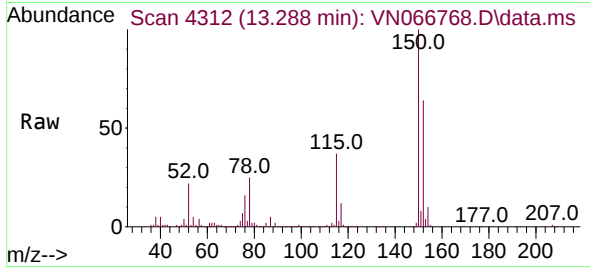




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 13.288 min Scan# 4312
 Delta R.T. -0.000 min
 Lab File: VN066768.D
 Acq: 26 Apr 2021 17:50

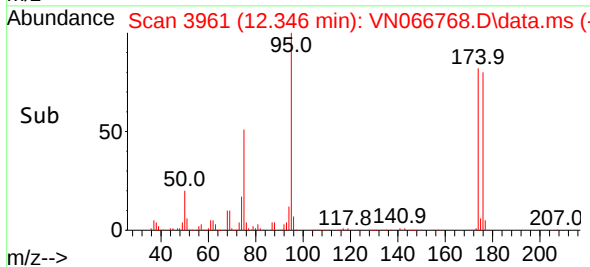
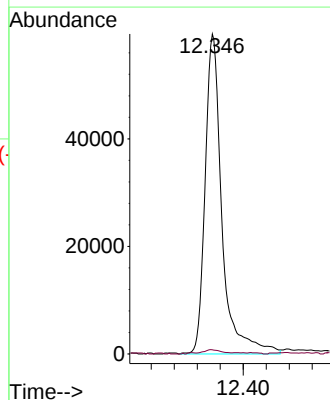
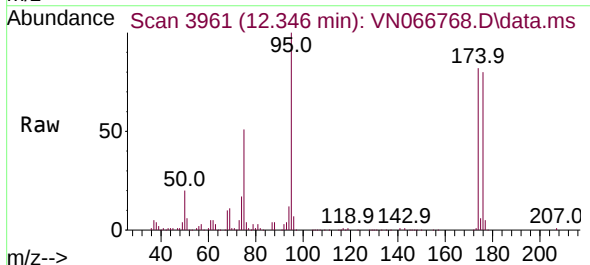
Instrument :
 MSVOA_N
 ClientSampled :

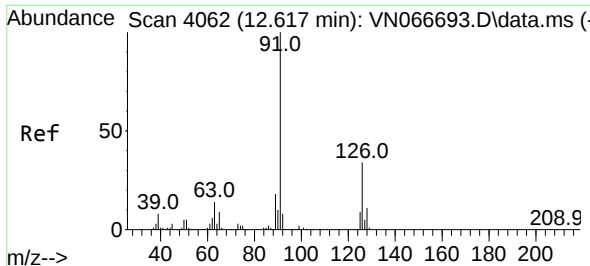
Tgt Ion:152 Resp: 229691
 Ion Ratio Lower Upper
 152 100
 115 59.3 28.5 85.6
 150 160.7 0.0 347.6



#76
 1,2,3-Trichloropropane
 Concen: 24.60 ug/l
 RT: 12.346 min Scan# 3961
 Delta R.T. -0.150 min
 Lab File: VN066768.D
 Acq: 26 Apr 2021 17:50

Tgt Ion: 75 Resp: 120896
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#

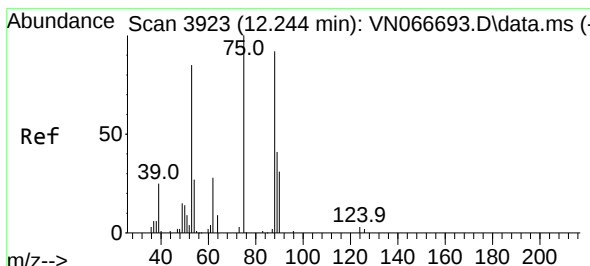
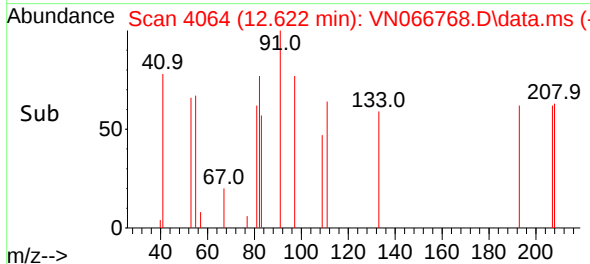
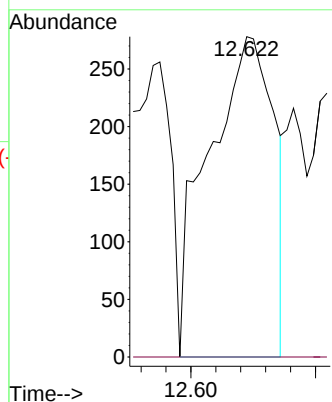
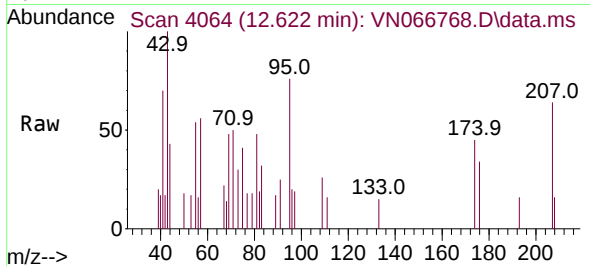




#79
2-Chlorotoluene
Concen: 0.98 ug/l
RT: 12.622 min Scan# 4064
Delta R.T. 0.005 min
Lab File: VN066768.D
Acq: 26 Apr 2021 17:50

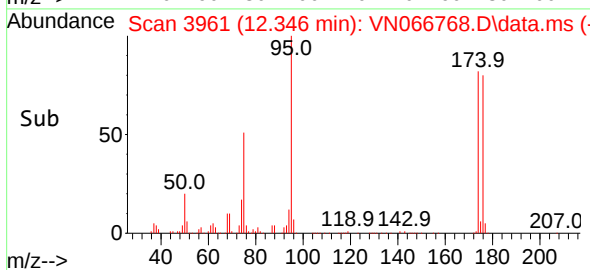
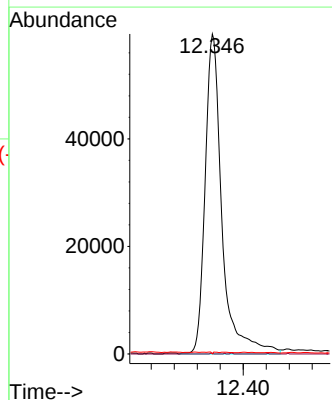
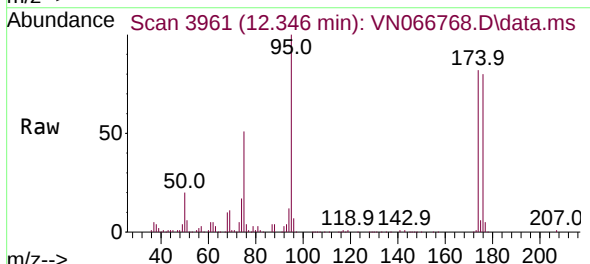
Instrument :
MSVOA_N
ClientSampled :

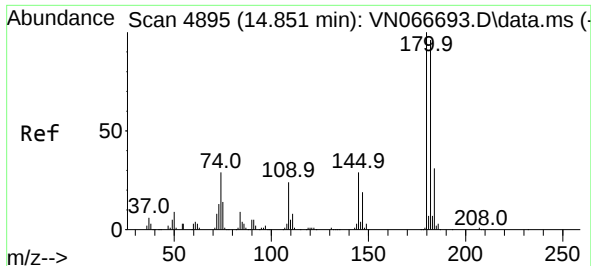
Tgt Ion: 91 Resp: 506
Ion Ratio Lower Upper
91 100
126 0.0 17.4 52.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 72.54 ug/l
RT: 12.346 min Scan# 3961
Delta R.T. 0.102 min
Lab File: VN066768.D
Acq: 26 Apr 2021 17:50

Tgt Ion: 75 Resp: 120896
Ion Ratio Lower Upper
75 100
53 0.0 74.6 111.8#
89 0.2 35.8 53.8#

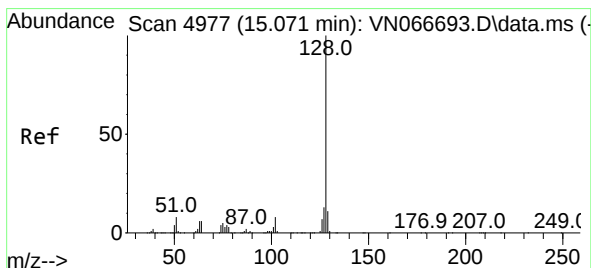
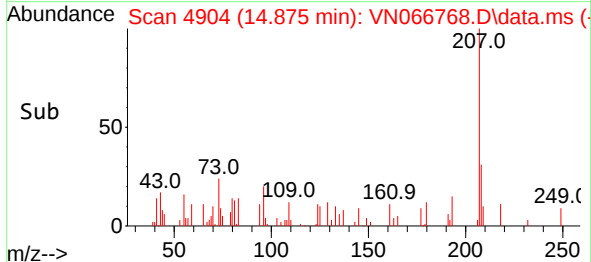
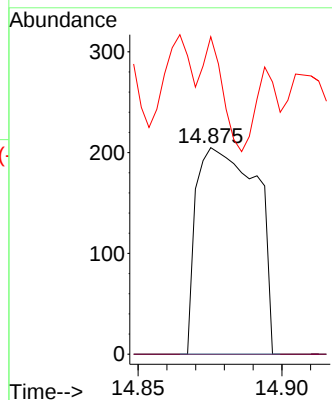
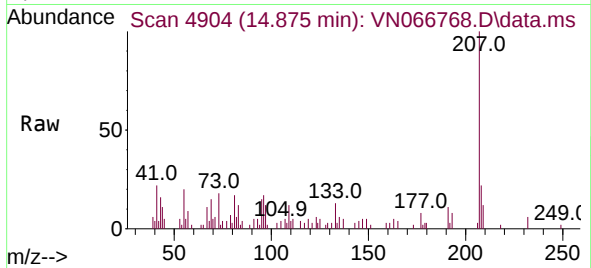




#93
1,2,4-Trichlorobenzene
Concen: 2.07 ug/l
RT: 14.875 min Scan# 4904
Delta R.T. 0.024 min
Lab File: VN066768.D
Acq: 26 Apr 2021 17:50

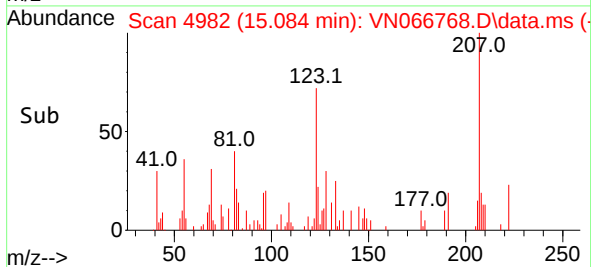
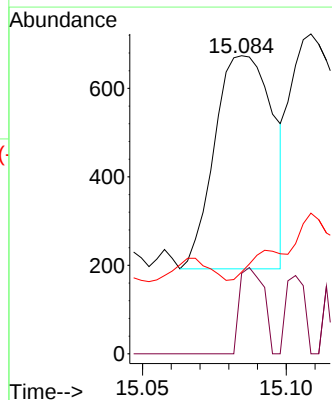
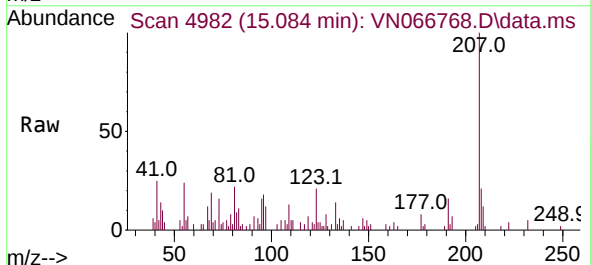
Instrument :
MSVOA_N
ClientSampled :

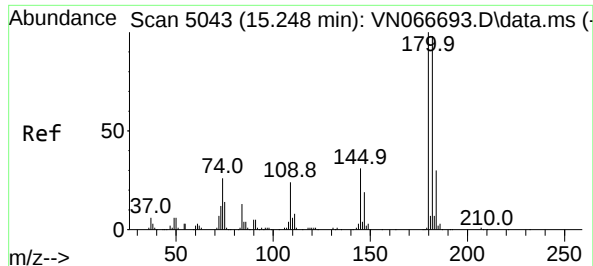
Tgt Ion:180 Resp: 297
Ion Ratio Lower Upper
180 100
182 0.0 47.3 142.0#
145 15.5 15.6 46.8#



#95
Naphthalene
Concen: 1.91 ug/l
RT: 15.084 min Scan# 4982
Delta R.T. 0.013 min
Lab File: VN066768.D
Acq: 26 Apr 2021 17:50

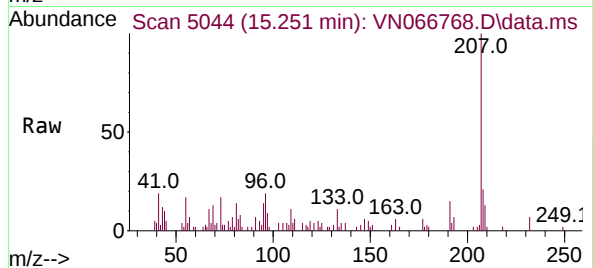
Tgt Ion:128 Resp: 678
Ion Ratio Lower Upper
128 100
127 16.7 10.2 15.2#
129 8.4 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.38 ug/l
 RT: 15.251 min Scan# 5044
 Delta R.T. 0.003 min
 Lab File: VN066768.D
 Acq: 26 Apr 2021 17:50

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:180 Resp: 88
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.4 142.3#
 145 0.0 16.5 49.5#

