

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042821\
 Data File : VN066806.D
 Acq On : 28 Apr 2021 12:47
 Operator : JC/MD
 Sample : M2136-04 10X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 29 04:28:52 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042721W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 27 16:02:50 2021
 Response via : Initial Calibration

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

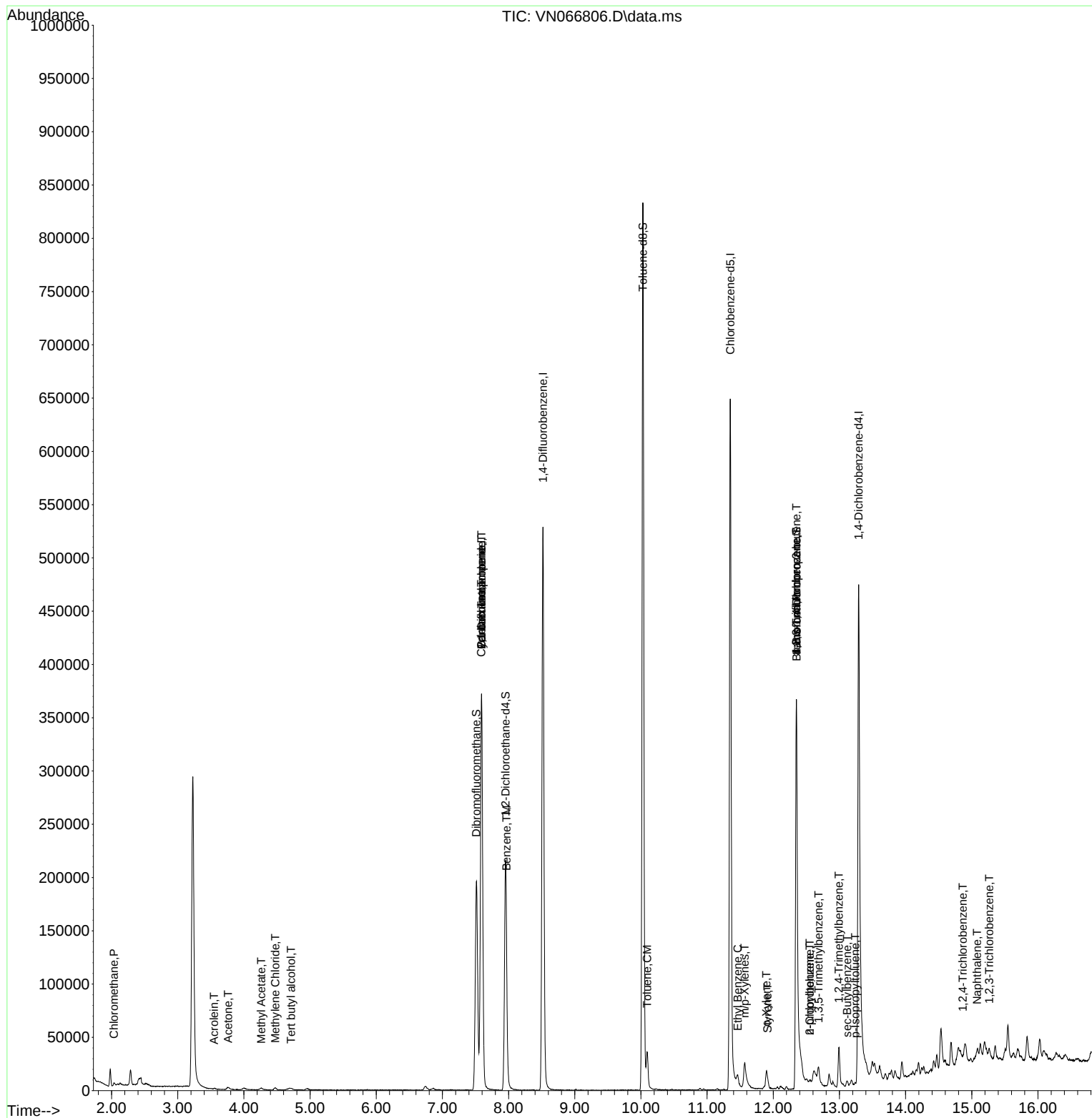
Internal Standards						
1) Pentafluorobenzene	7.591	168	333401	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.519	114	505175	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.351	117	431462	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.290	152	196195	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.953	65	182693	42.65	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 85.30%			
35) Dibromofluoromethane	7.513	113	157729	50.58	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 101.16%			
50) Toluene-d8	10.029	98	604178	49.36	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 98.72%			
62) 4-Bromofluorobenzene	12.349	95	180263	43.53	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 87.06%			
Target Compounds						Qvalue
3) Chloromethane	2.034	50	1680	0.35	ug/l	96
11) Tert butyl alcohol	4.710	59	1911	2.89	ug/l #	73
13) Acrolein	3.549	56	851	1.54	ug/l #	61
16) Acetone	3.761	43	3944	2.44	ug/l	96
18) Methyl Acetate	4.263	43	3861	1.98	ug/l #	75
20) Methylene Chloride	4.474	84	1650	0.40	ug/l	93
31) Cyclohexane	7.588	56	5500	0.83	ug/l #	1
36) 1,1-Dichloropropene	7.591	75	22140	4.72	ug/l #	43
38) Carbon Tetrachloride	7.591	117	28746	6.39	ug/l #	17
40) Benzene	7.966	78	7005	0.48	ug/l	96
52) Toluene	10.096	92	14150	1.61	ug/l	99
67) Ethyl Benzene	11.464	91	9139	0.60	ug/l	96
68) m/p-Xylenes	11.568	106	10859	1.94	ug/l	95
69) o-Xylene	11.896	106	7040	1.26	ug/l	97
70) Styrene	11.914	104	26	3.05	ug/l #	26
71) Bromoform	12.351	173	787	0.34	ug/l #	1
76) 1,2,3-Trichloropropane	12.349	75	85750	20.74	ug/l #	100
78) n-propylbenzene	12.553	91	5502	0.35	ug/l	92
79) 2-Chlorotoluene	12.553	91	5502	0.55	ug/l #	40
80) 1,3,5-Trimethylbenzene	12.684	105	8579	0.71	ug/l	91
81) trans-1,4-Dichloro-2-b...	12.349	75	85750	56.81	ug/l #	12
84) 1,2,4-Trimethylbenzene	12.992	105	24700	2.16	ug/l	95
85) sec-Butylbenzene	13.118	105	3262	0.24	ug/l	98
86) p-Isopropyltoluene	13.236	119	2494	0.22	ug/l	85
93) 1,2,4-Trichlorobenzene	14.864	180	1677	0.50	ug/l #	72
95) Naphthalene	15.082	128	11513	1.32	ug/l #	88
96) 1,2,3-Trichlorobenzene	15.264	180	2291	0.70	ug/l #	65

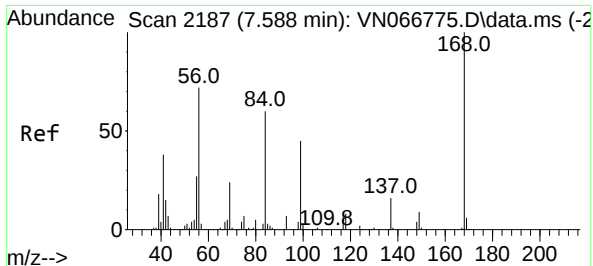
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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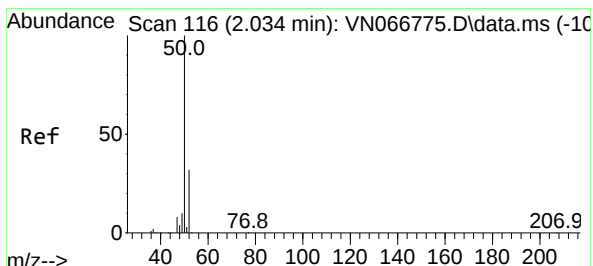
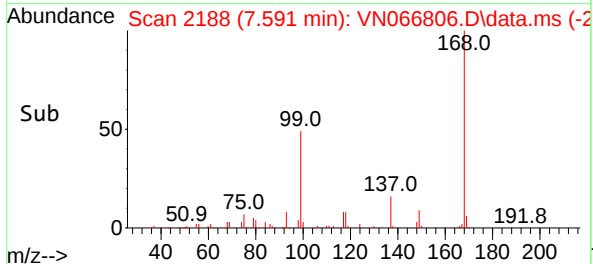
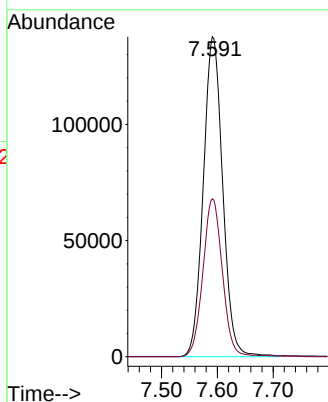
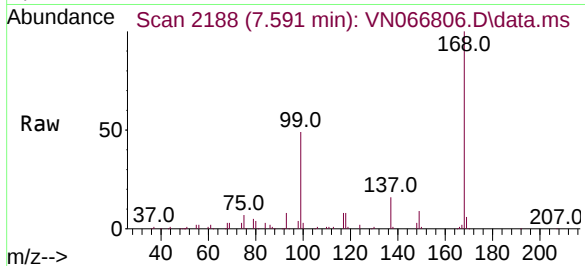




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.591 min Scan# 2188
Delta R.T. 0.003 min
Lab File: VN066806.D
Acq: 28 Apr 2021 12:47

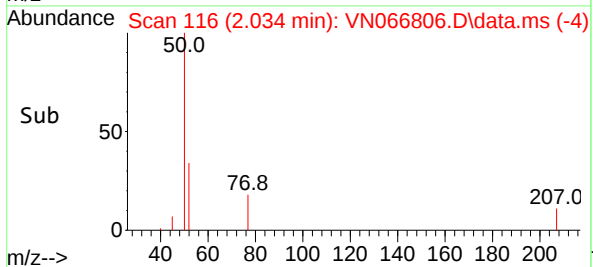
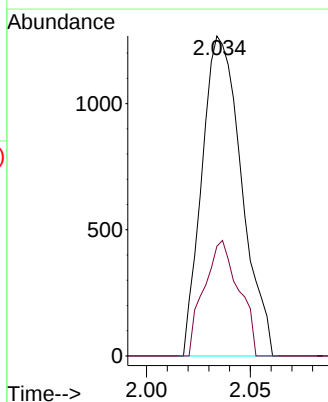
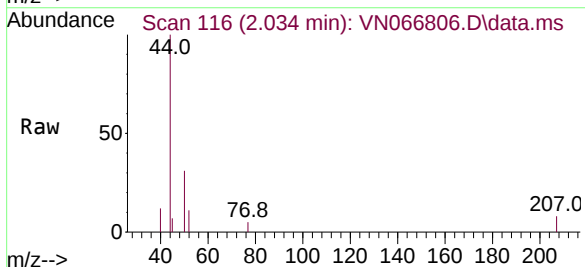
Instrument :
MSVOA_N
ClientSampled :

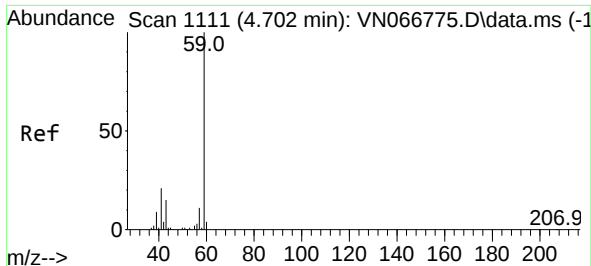
Tgt Ion:168 Resp: 333401
Ion Ratio Lower Upper
168 100
99 49.3 42.6 63.8



#3
Chloromethane
Concen: 0.35 ug/l
RT: 2.034 min Scan# 116
Delta R.T. -0.000 min
Lab File: VN066806.D
Acq: 28 Apr 2021 12:47

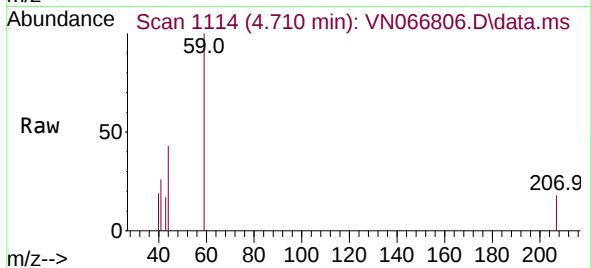
Tgt Ion: 50 Resp: 1680
Ion Ratio Lower Upper
50 100
52 34.3 25.8 38.8



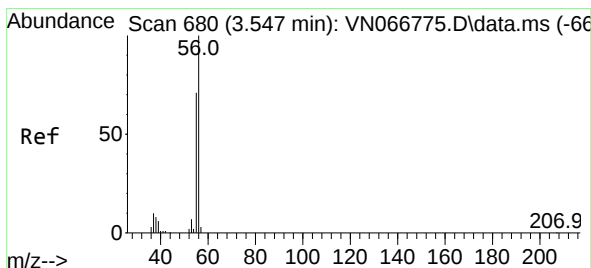
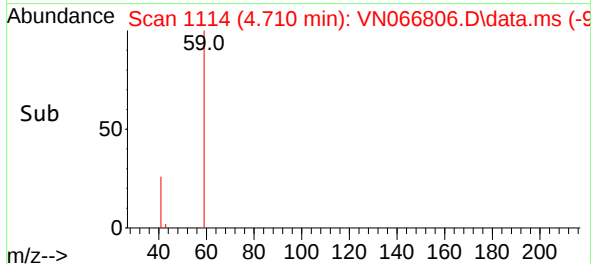
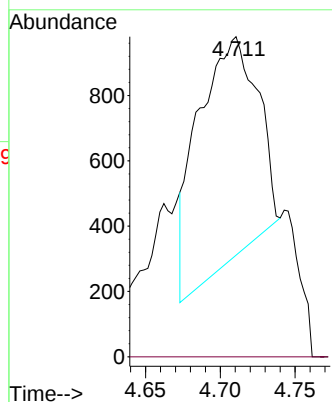


#11
Tert butyl alcohol
Concen: 2.89 ug/l
RT: 4.710 min Scan# 1114
Delta R.T. 0.008 min
Lab File: VN066806.D
Acq: 28 Apr 2021 12:47

Instrument :
MSVOA_N
ClientSampled :

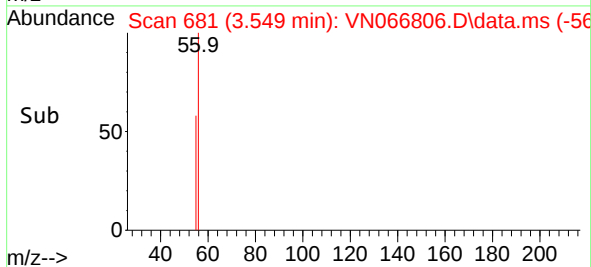
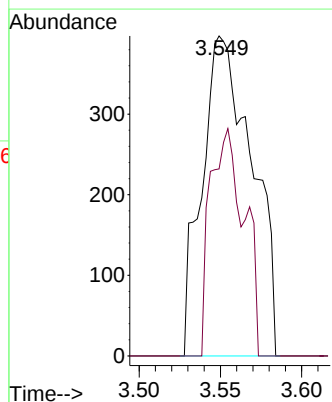
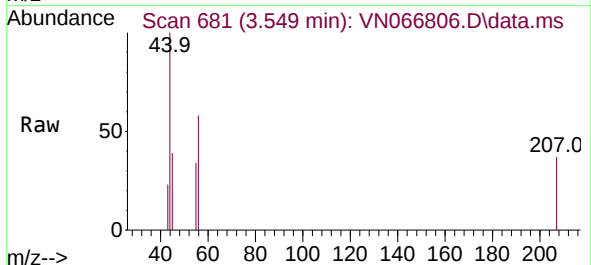


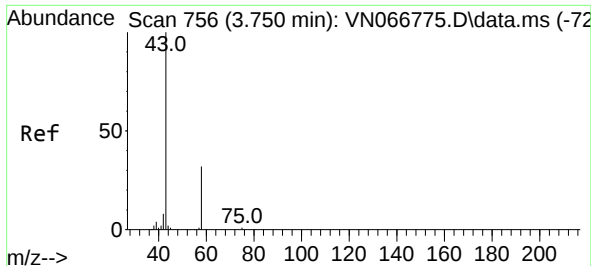
Tgt Ion: 59 Resp: 1911
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#



#13
Acrolein
Concen: 1.54 ug/l
RT: 3.549 min Scan# 681
Delta R.T. 0.002 min
Lab File: VN066806.D
Acq: 28 Apr 2021 12:47

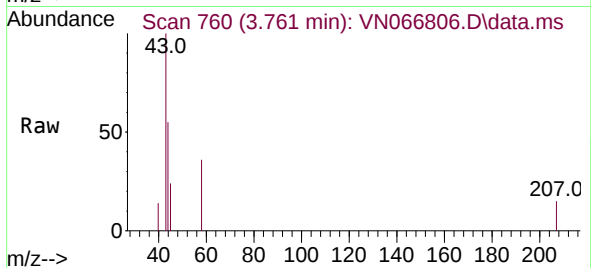
Tgt Ion: 56 Resp: 851
Ion Ratio Lower Upper
56 100
55 38.3 56.0 84.0#



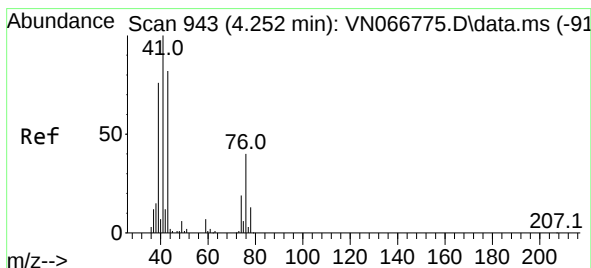
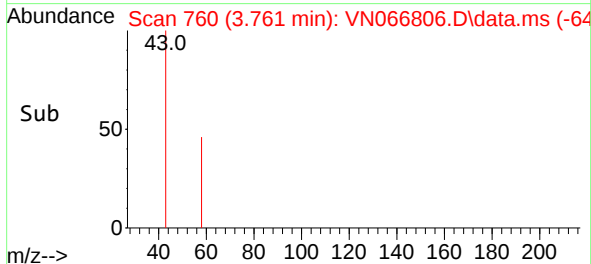
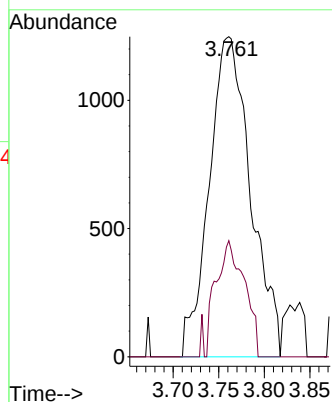


#16
Acetone
Concen: 2.44 ug/l
RT: 3.761 min Scan# 760
Delta R.T. 0.011 min
Lab File: VN066806.D
Acq: 28 Apr 2021 12:47

Instrument :
MSVOA_N
ClientSampled :

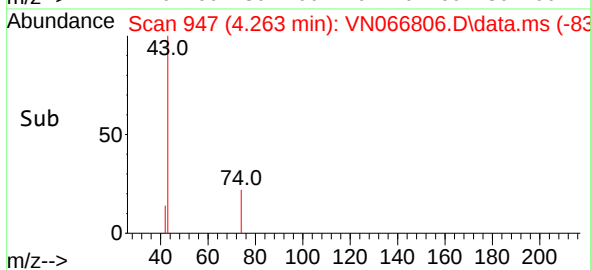
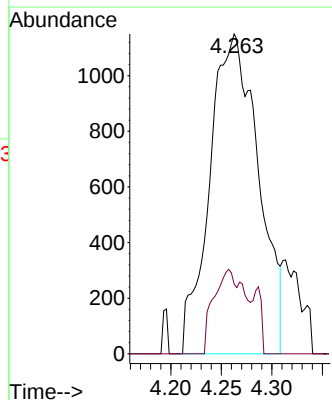
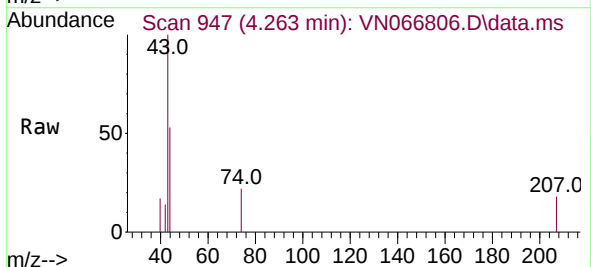


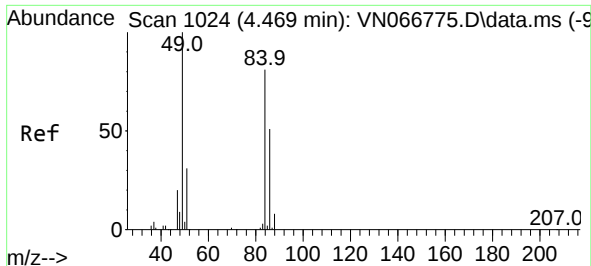
Tgt Ion: 43 Resp: 3944
Ion Ratio Lower Upper
43 100
58 36.3 27.0 40.6



#18
Methyl Acetate
Concen: 1.98 ug/l
RT: 4.263 min Scan# 947
Delta R.T. 0.011 min
Lab File: VN066806.D
Acq: 28 Apr 2021 12:47

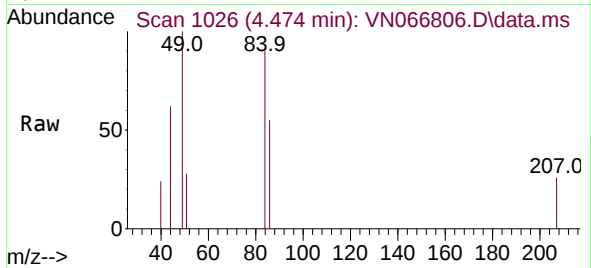
Tgt Ion: 43 Resp: 3861
Ion Ratio Lower Upper
43 100
74 11.9 19.5 29.3#



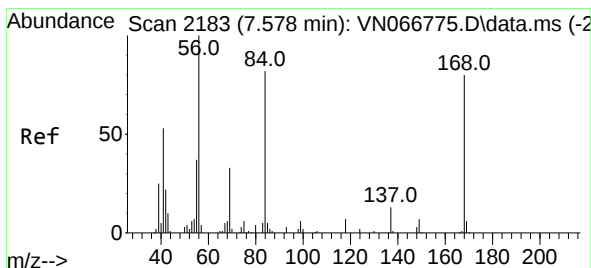
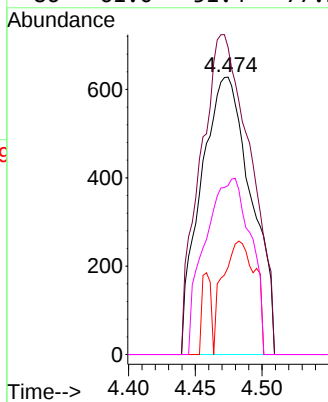
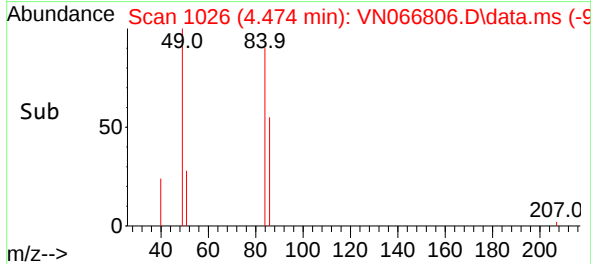


#20
Methylene Chloride
Concen: 0.40 ug/l
RT: 4.474 min Scan# 1026
Delta R.T. 0.005 min
Lab File: VN066806.D
Acq: 28 Apr 2021 12:47

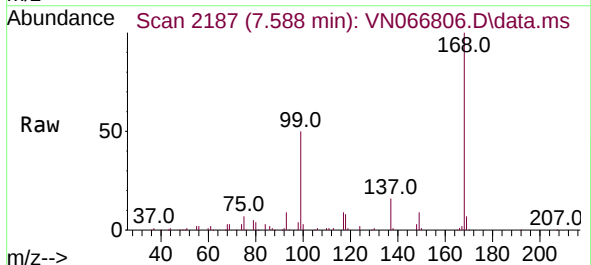
Instrument :
MSVOA_N
ClientSampled :



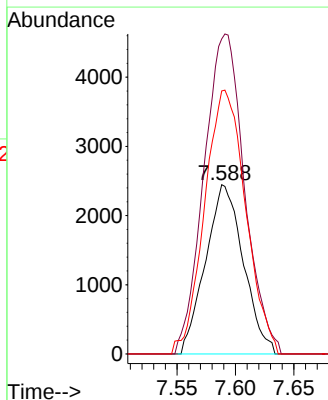
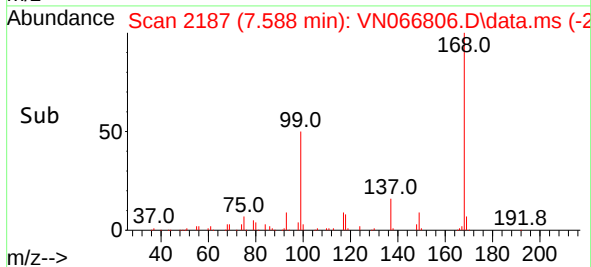
Tgt Ion: 84	Resp: 1650
Ion Ratio	Lower Upper
84 100	
49 110.7	94.6 141.8
51 31.5	29.9 44.9
86 61.0	51.4 77.2

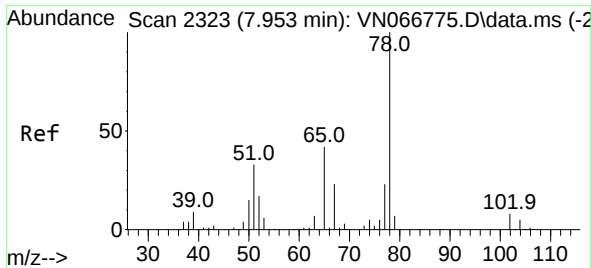


#31
Cyclohexane
Concen: 0.83 ug/l
RT: 7.588 min Scan# 2187
Delta R.T. 0.010 min
Lab File: VN066806.D
Acq: 28 Apr 2021 12:47



Tgt Ion: 56	Resp: 5500
Ion Ratio	Lower Upper
56 100	
69 179.1	26.6 39.8#
84 155.4	70.4 105.6#

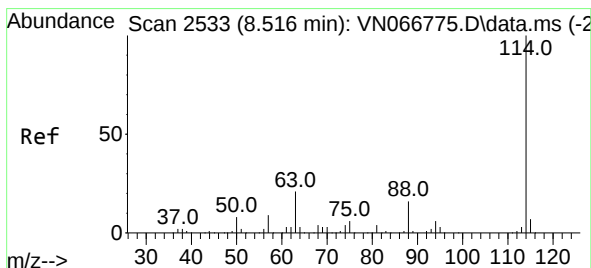
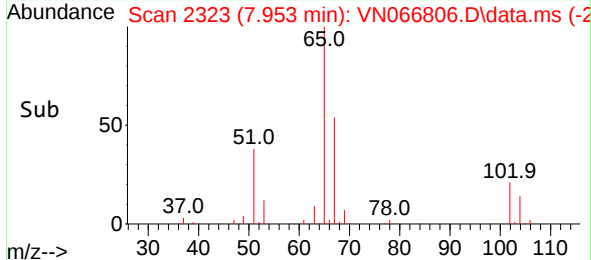
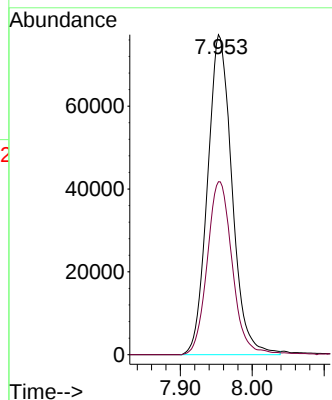
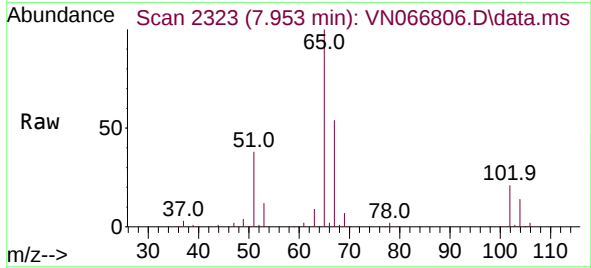




#33
 1,2-Dichloroethane-d4
 Concen: 42.65 ug/l
 RT: 7.953 min Scan# 2323
 Delta R.T. 0.000 min
 Lab File: VN066806.D
 Acq: 28 Apr 2021 12:47

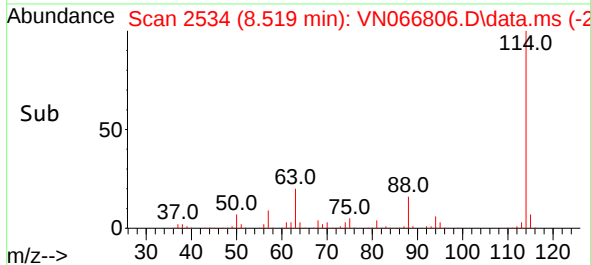
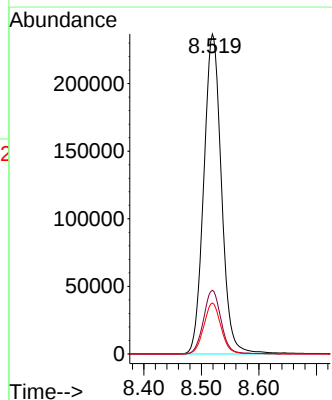
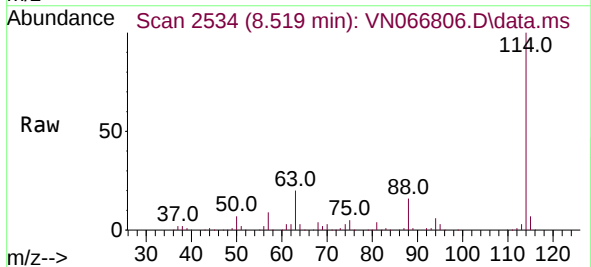
Instrument :
 MSVOA_N
 ClientSampled :

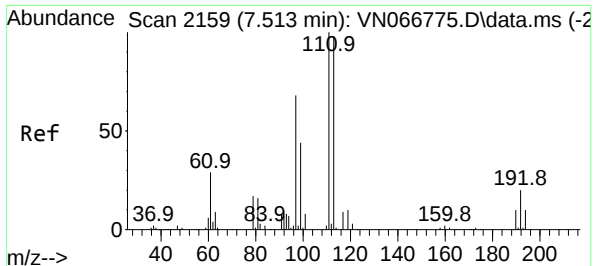
Tgt Ion: 65 Resp: 182693
 Ion Ratio Lower Upper
 65 100
 67 55.7 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.519 min Scan# 2534
 Delta R.T. 0.003 min
 Lab File: VN066806.D
 Acq: 28 Apr 2021 12:47

Tgt Ion: 114 Resp: 505175
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 38.6
 88 15.9 0.0 30.6

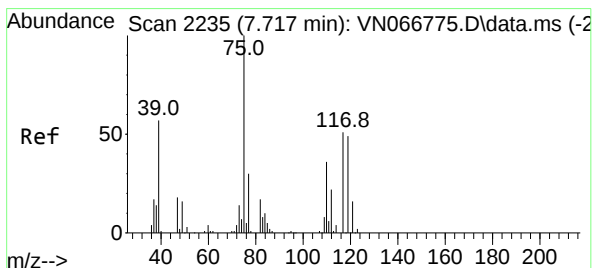
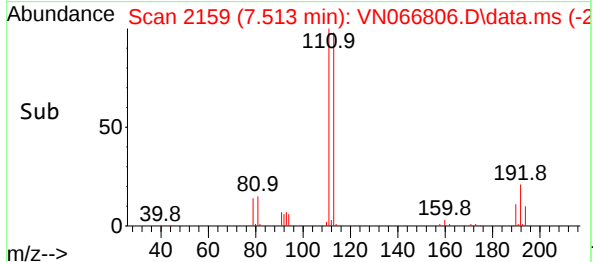
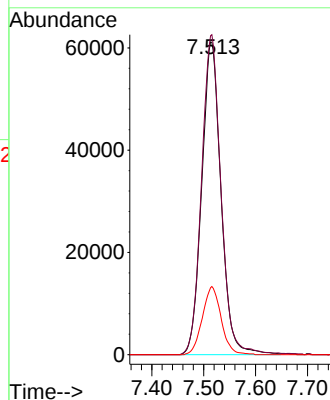
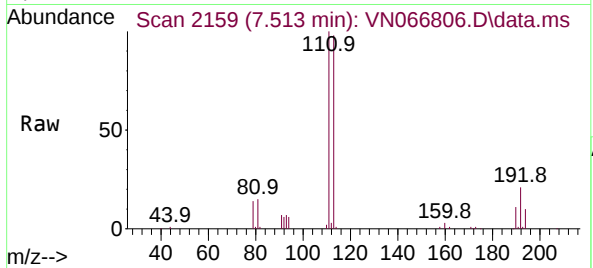




#35
Dibromofluoromethane
Concen: 50.58 ug/l
RT: 7.513 min Scan# 2159
Delta R.T. 0.000 min
Lab File: VN066806.D
Acq: 28 Apr 2021 12:47

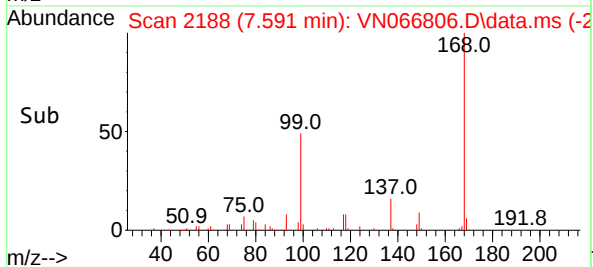
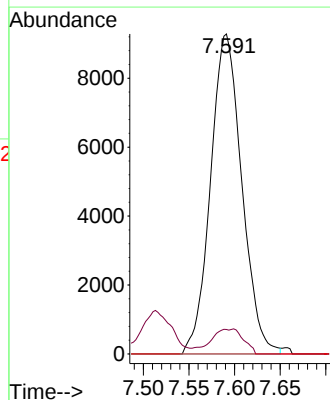
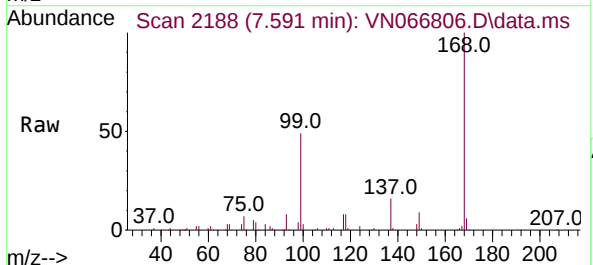
Instrument :
MSVOA_N
ClientSampled :

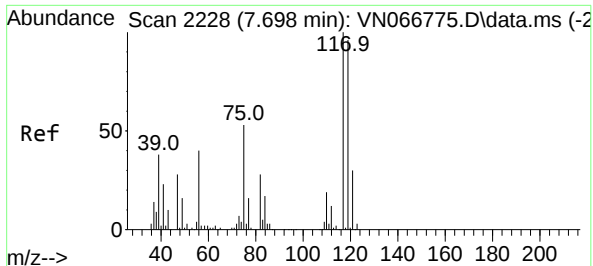
Tgt Ion:113 Resp: 157729
Ion Ratio Lower Upper
113 100
111 102.8 82.2 123.2
192 21.3 15.4 23.0



#36
1,1-Dichloropropene
Concen: 4.72 ug/l
RT: 7.591 min Scan# 2188
Delta R.T. -0.126 min
Lab File: VN066806.D
Acq: 28 Apr 2021 12:47

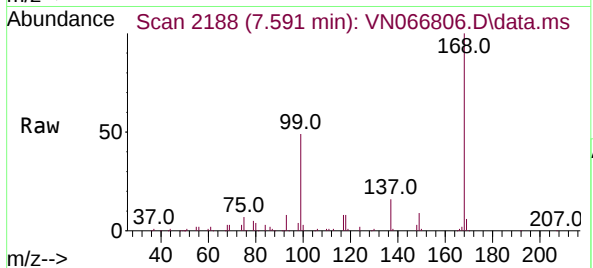
Tgt Ion: 75 Resp: 22140
Ion Ratio Lower Upper
75 100
110 2.6 18.2 54.6#
77 0.0 24.9 37.3#



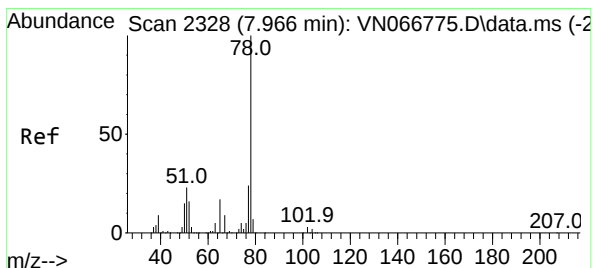
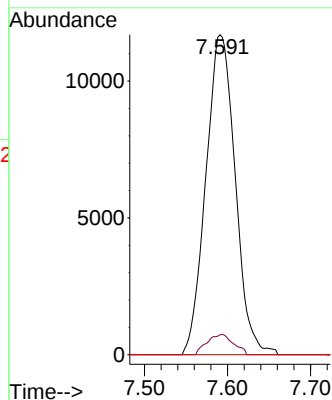
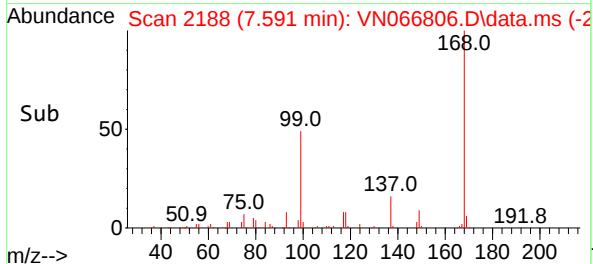


#38
Carbon Tetrachloride
Concen: 6.39 ug/l
RT: 7.591 min Scan# 2188
Delta R.T. -0.107 min
Lab File: VN066806.D
Acq: 28 Apr 2021 12:47

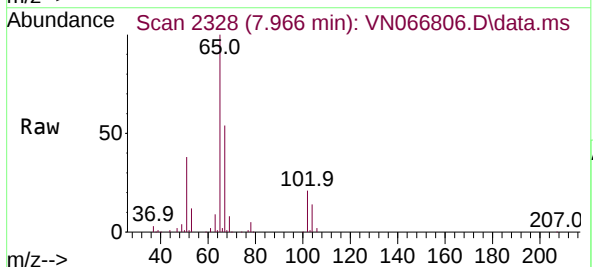
Instrument :
MSVOA_N
ClientSampled :



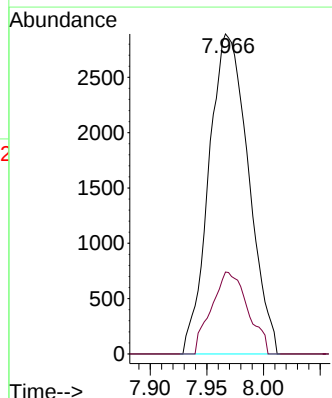
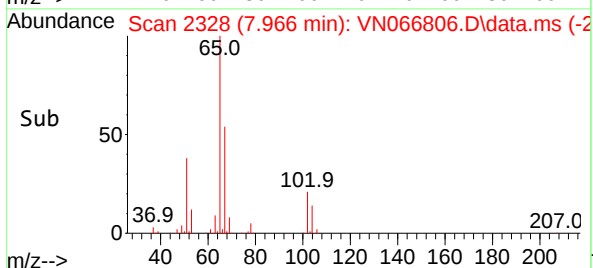
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Ion Ratio Lower Upper
117 100
119 6.2 76.0 114.0#
121 0.0 24.5 36.7#

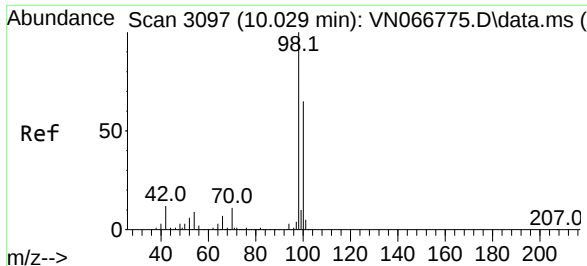


#40
Benzene
Concen: 0.48 ug/l
RT: 7.966 min Scan# 2328
Delta R.T. 0.000 min
Lab File: VN066806.D
Acq: 28 Apr 2021 12:47



Tgt Ion: 78 Resp: 7005
Ion Ratio Lower Upper
78 100
77 25.6 19.0 28.4

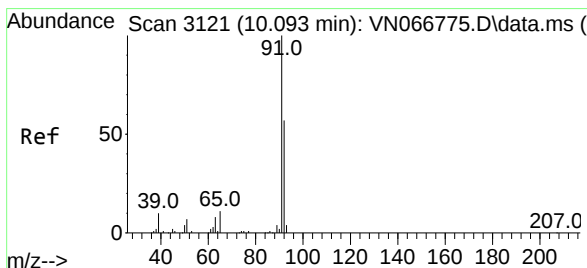
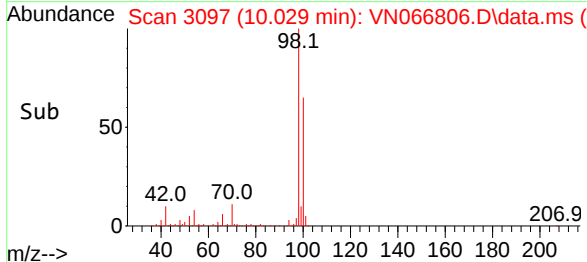
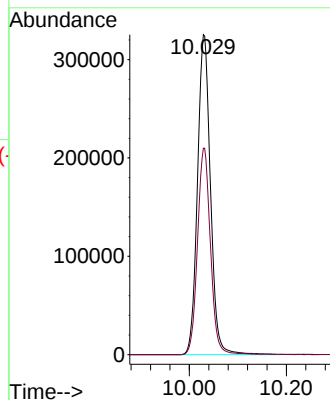
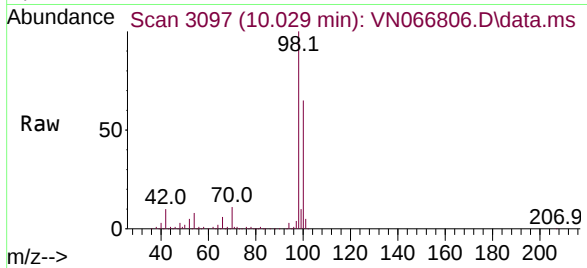




#50
Toluene-d8
Concen: 49.36 ug/l
RT: 10.029 min Scan# 3097
Delta R.T. -0.000 min
Lab File: VN066806.D
Acq: 28 Apr 2021 12:47

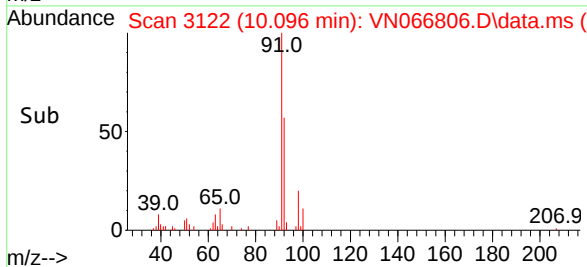
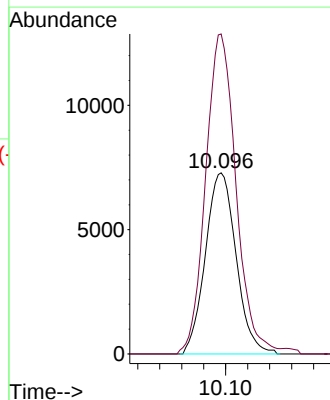
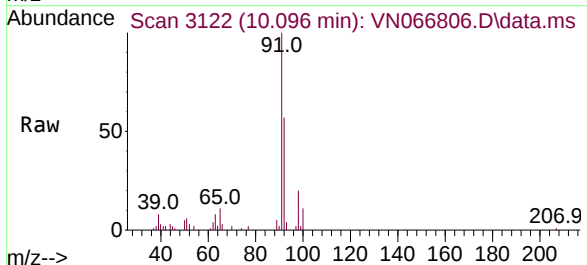
Instrument :
MSVOA_N
ClientSampled :

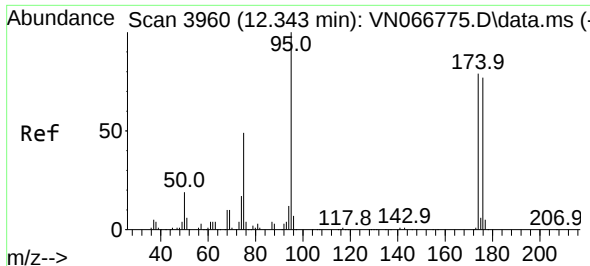
Tgt Ion: 98 Resp: 604178
Ion Ratio Lower Upper
98 100
100 64.3 50.5 75.7



#52
Toluene
Concen: 1.61 ug/l
RT: 10.096 min Scan# 3122
Delta R.T. 0.003 min
Lab File: VN066806.D
Acq: 28 Apr 2021 12:47

Tgt Ion: 92 Resp: 14150
Ion Ratio Lower Upper
92 100
91 174.5 140.7 211.1

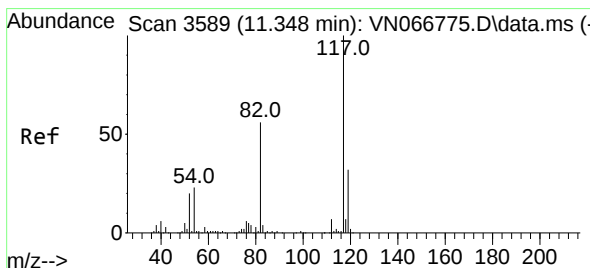
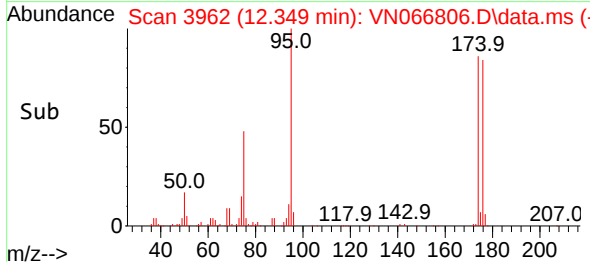
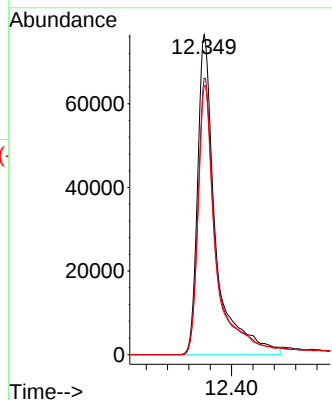
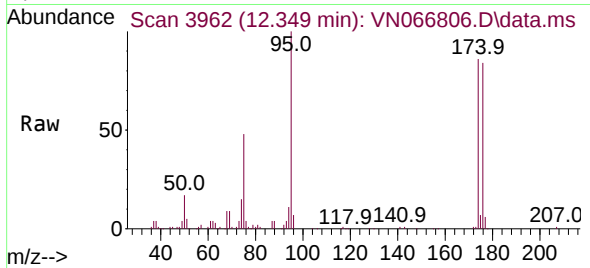




#62
4-Bromofluorobenzene
Concen: 43.53 ug/l
RT: 12.349 min Scan# 3962
Delta R.T. 0.006 min
Lab File: VN066806.D
Acq: 28 Apr 2021 12:47

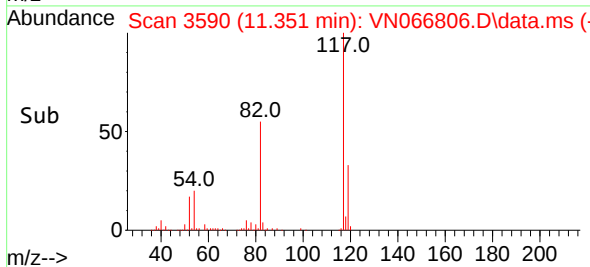
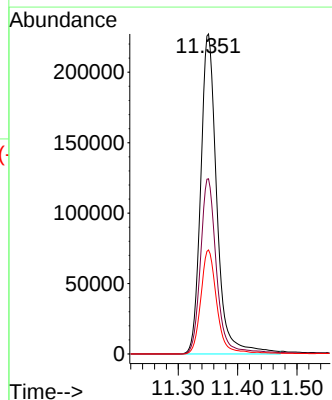
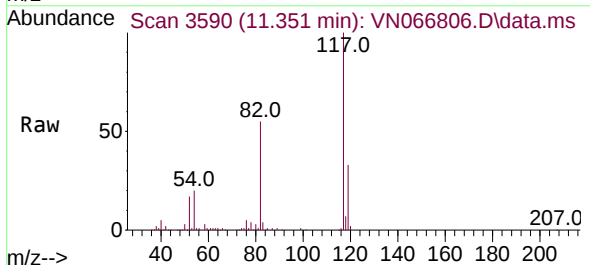
Instrument :
MSVOA_N
ClientSampleId :

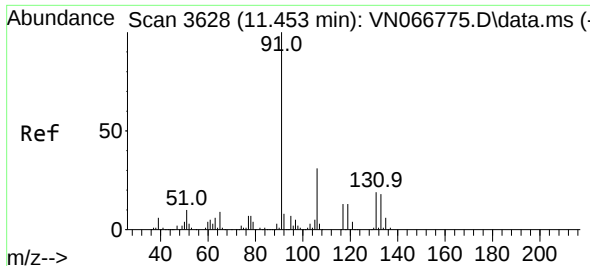
Tgt Ion: 95 Resp: 180263
Ion Ratio Lower Upper
95 100
174 86.8 0.0 169.0
176 83.3 0.0 162.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.351 min Scan# 3590
Delta R.T. 0.003 min
Lab File: VN066806.D
Acq: 28 Apr 2021 12:47

Tgt Ion: 117 Resp: 431462
Ion Ratio Lower Upper
117 100
82 54.8 43.7 65.5
119 32.5 26.1 39.1

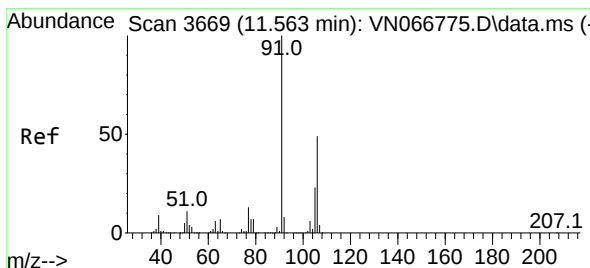
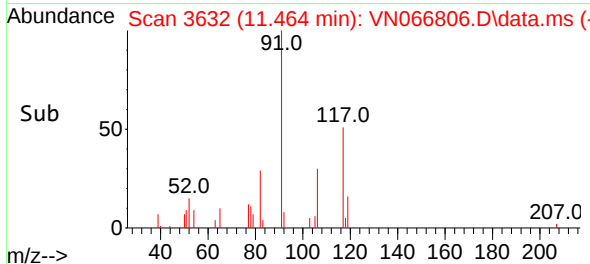
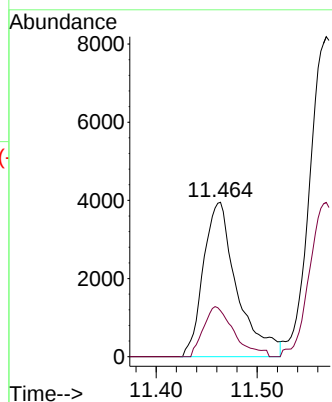
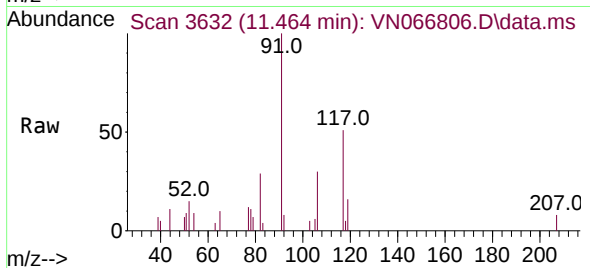




#67
Ethyl Benzene
Concen: 0.60 ug/l
RT: 11.464 min Scan# 3632
Delta R.T. 0.011 min
Lab File: VN066806.D
Acq: 28 Apr 2021 12:47

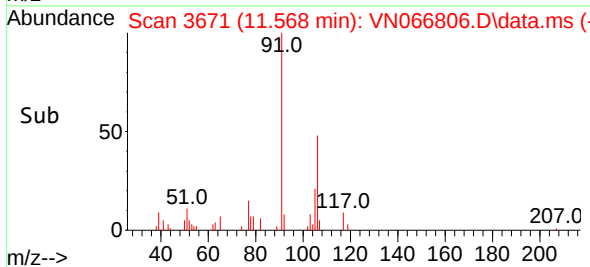
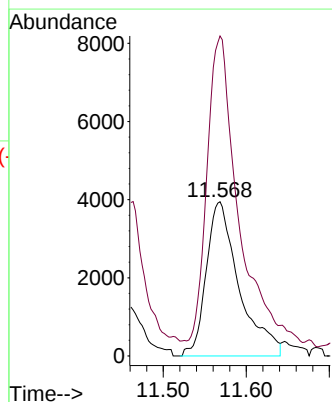
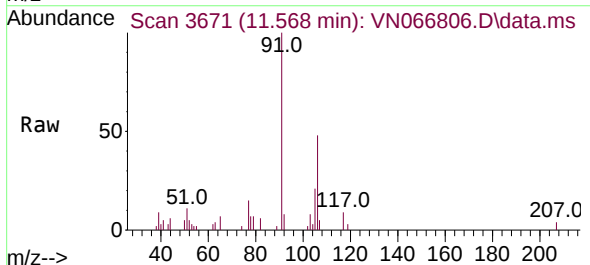
Instrument :
MSVOA_N
ClientSampled :

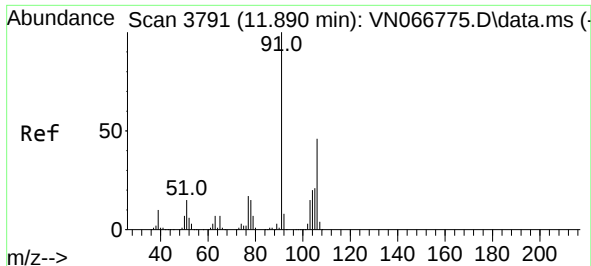
Tgt Ion: 91 Resp: 9139
Ion Ratio Lower Upper
91 100
106 29.8 25.5 38.3



#68
m/p-Xylenes
Concen: 1.94 ug/l
RT: 11.568 min Scan# 3671
Delta R.T. 0.005 min
Lab File: VN066806.D
Acq: 28 Apr 2021 12:47

Tgt Ion: 106 Resp: 10859
Ion Ratio Lower Upper
106 100
91 193.8 161.4 242.0

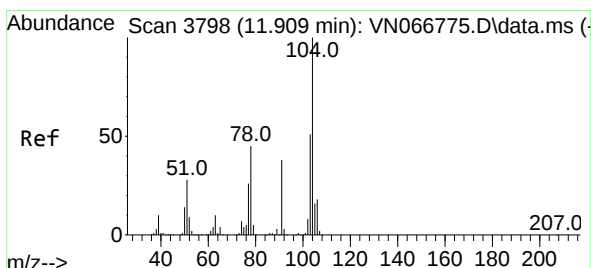
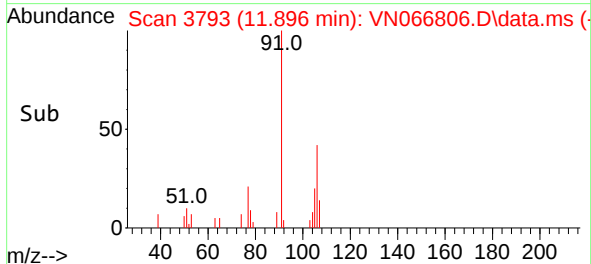
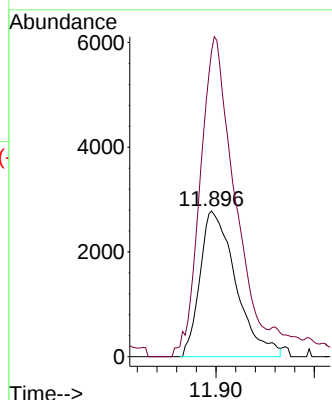
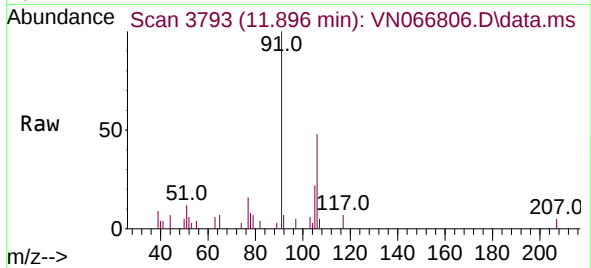




#69
o-Xylene
Concen: 1.26 ug/l
RT: 11.896 min Scan# 3793
Delta R.T. 0.005 min
Lab File: VN066806.D
Acq: 28 Apr 2021 12:47

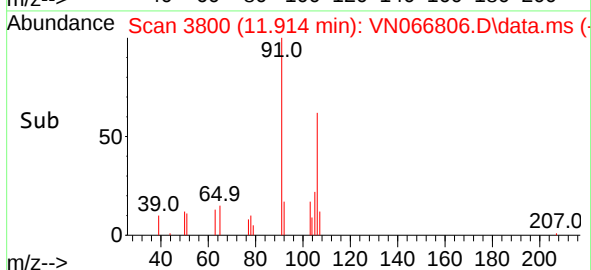
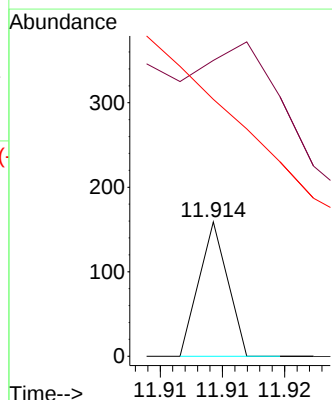
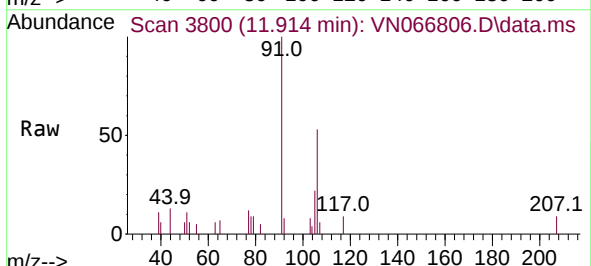
Instrument :
MSVOA_N
ClientSampled :

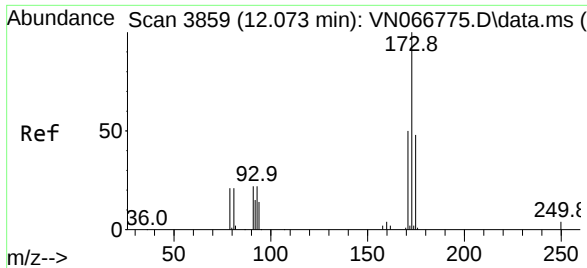
Tgt Ion:106 Resp: 7040
Ion Ratio Lower Upper
106 100
91 209.3 106.8 320.4



#70
Styrene
Concen: 3.05 ug/l
RT: 11.914 min Scan# 3800
Delta R.T. 0.005 min
Lab File: VN066806.D
Acq: 28 Apr 2021 12:47

Tgt Ion:104 Resp: 26
Ion Ratio Lower Upper
104 100
78 0.0 39.0 58.4#
103 0.0 44.5 66.7#

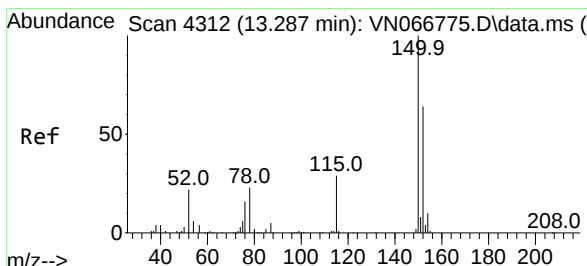
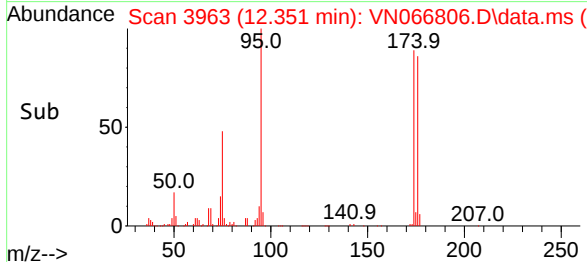
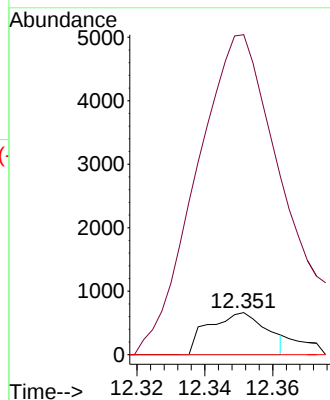
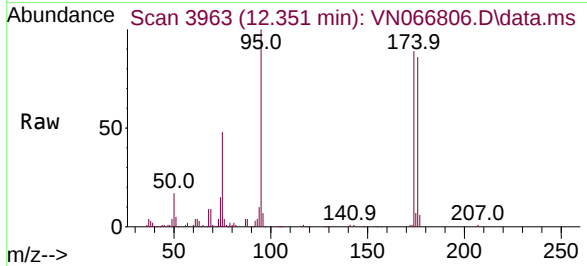




#71
Bromoform
Concen: 0.34 ug/l
RT: 12.351 min Scan# 3963
Delta R.T. 0.278 min
Lab File: VN066806.D
Acq: 28 Apr 2021 12:47

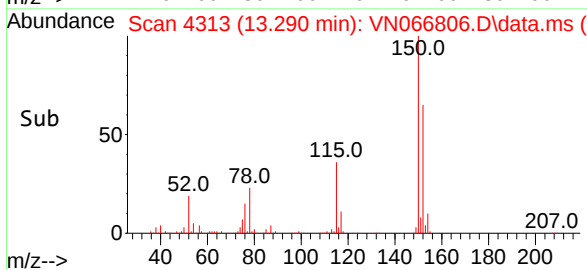
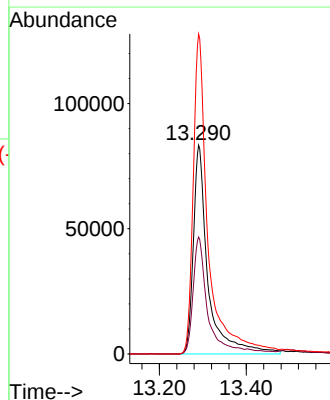
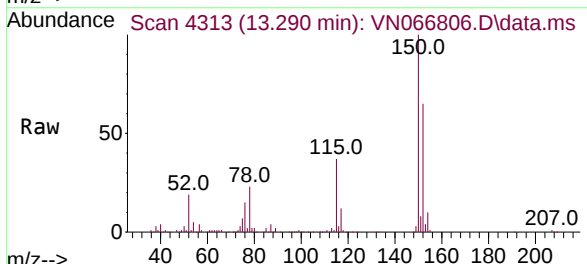
Instrument :
MSVOA_N
ClientSampleId :

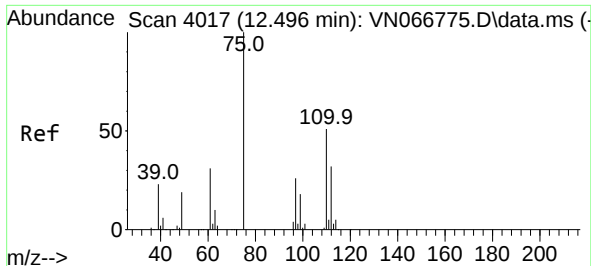
Tgt Ion:173 Resp: 787
Ion Ratio Lower Upper
173 100
175 959.0 23.8 71.2#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.290 min Scan# 4313
Delta R.T. 0.003 min
Lab File: VN066806.D
Acq: 28 Apr 2021 12:47

Tgt Ion:152 Resp: 196195
Ion Ratio Lower Upper
152 100
115 54.2 28.5 85.6
150 155.5 0.0 347.6

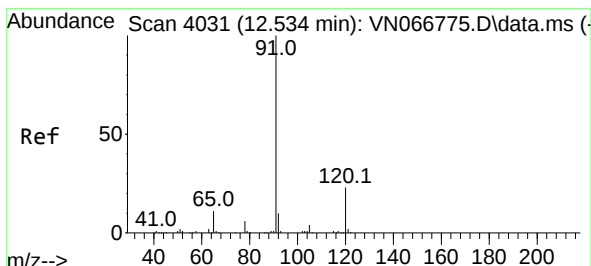
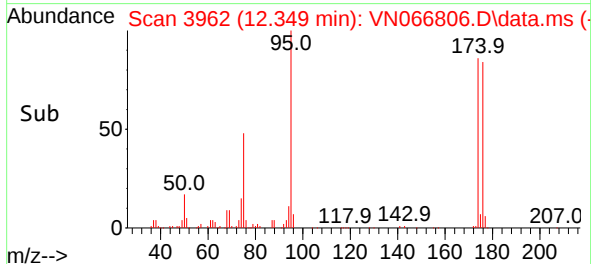
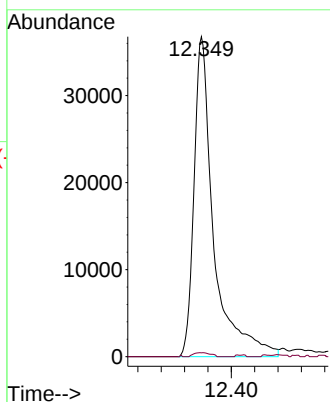
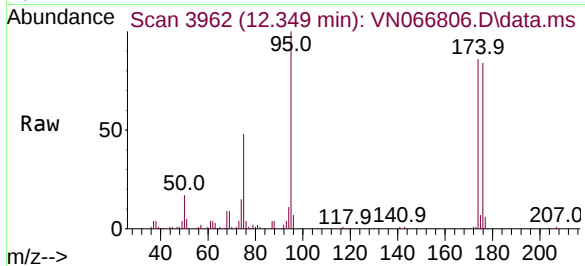




#76
1,2,3-Trichloropropane
Concen: 20.74 ug/l
RT: 12.349 min Scan# 3962
Delta R.T. -0.147 min
Lab File: VN066806.D
Acq: 28 Apr 2021 12:47

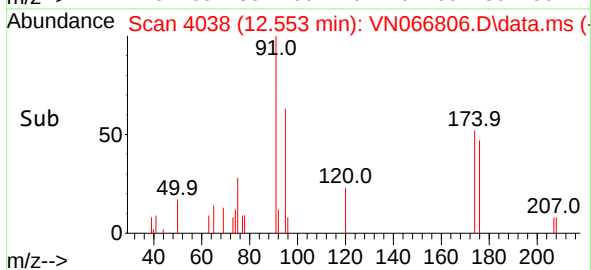
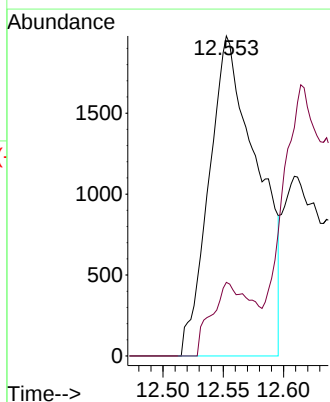
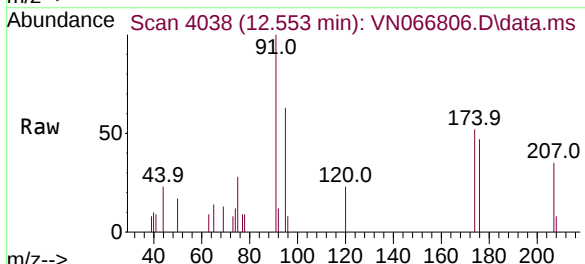
Instrument :
MSVOA_N
ClientSampled :

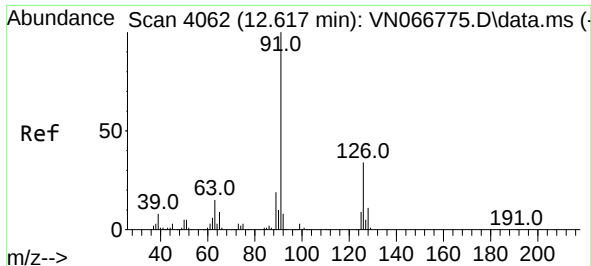
Tgt Ion: 75 Resp: 85750
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#



#78
n-propylbenzene
Concen: 0.35 ug/l
RT: 12.553 min Scan# 4038
Delta R.T. 0.019 min
Lab File: VN066806.D
Acq: 28 Apr 2021 12:47

Tgt Ion: 91 Resp: 5502
Ion Ratio Lower Upper
91 100
120 19.4 11.8 35.3

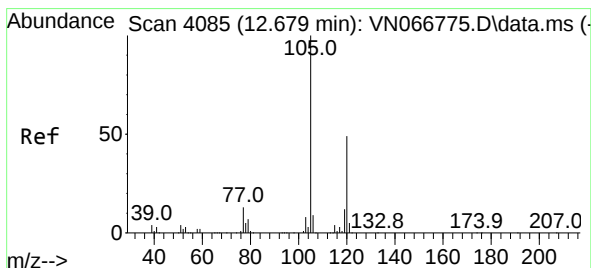
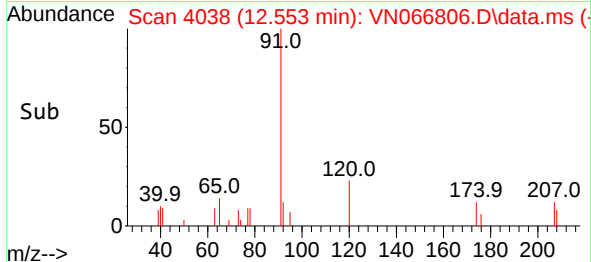
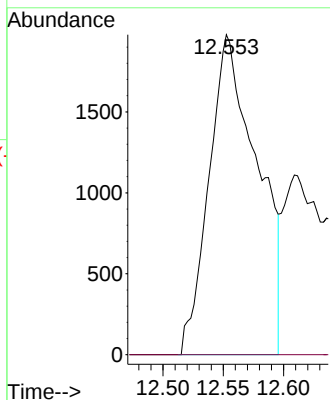
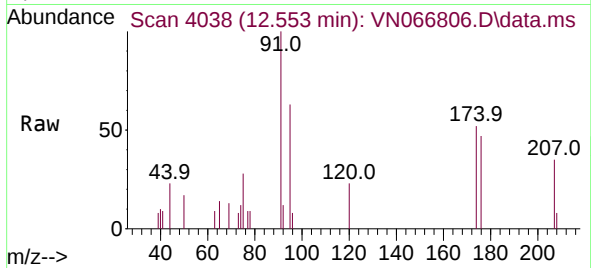




#79
2-Chlorotoluene
Concen: 0.55 ug/l
RT: 12.553 min Scan# 4038
Delta R.T. -0.064 min
Lab File: VN066806.D
Acq: 28 Apr 2021 12:47

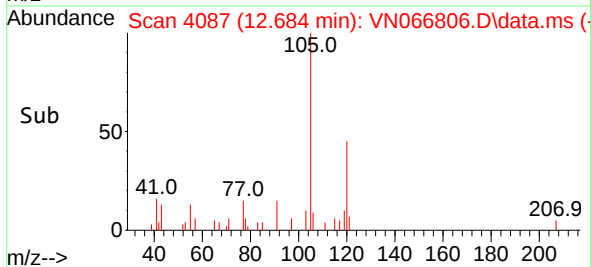
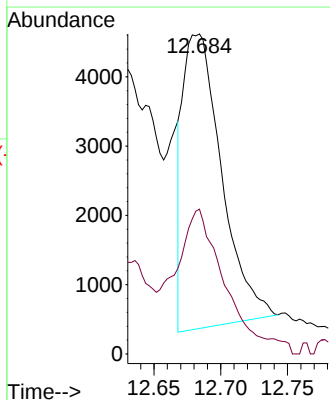
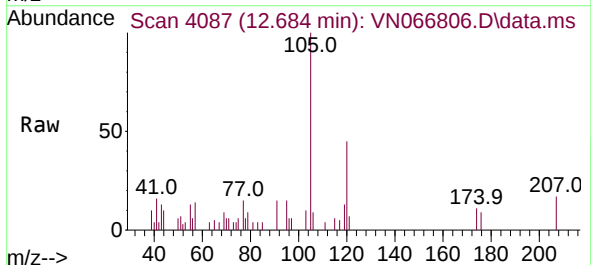
Instrument :
MSVOA_N
ClientSampled :

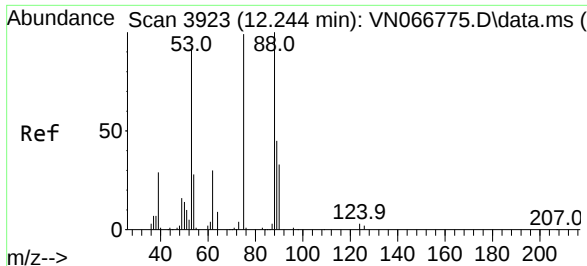
Tgt Ion: 91 Resp: 5502
Ion Ratio Lower Upper
91 100
126 0.0 17.4 52.3#



#80
1,3,5-Trimethylbenzene
Concen: 0.71 ug/l
RT: 12.684 min Scan# 4087
Delta R.T. 0.005 min
Lab File: VN066806.D
Acq: 28 Apr 2021 12:47

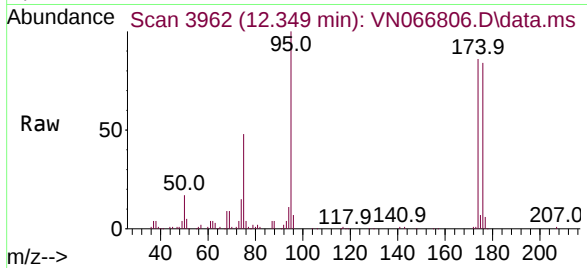
Tgt Ion: 105 Resp: 8579
Ion Ratio Lower Upper
105 100
120 54.6 24.3 72.8



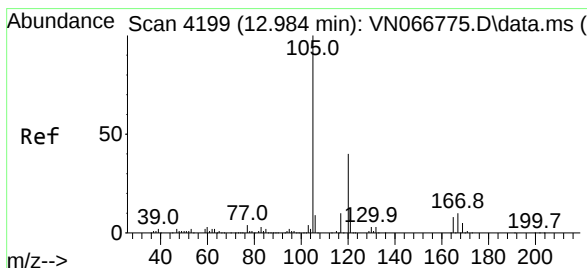
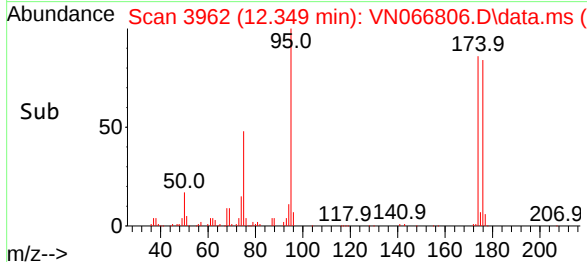
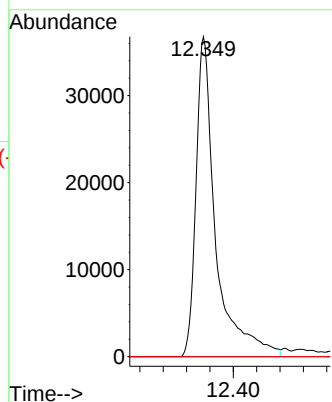


#81
trans-1,4-Dichloro-2-butene
Concen: 56.81 ug/l
RT: 12.349 min Scan# 3962
Delta R.T. 0.105 min
Lab File: VN066806.D
Acq: 28 Apr 2021 12:47

Instrument :
MSVOA_N
ClientSampled :

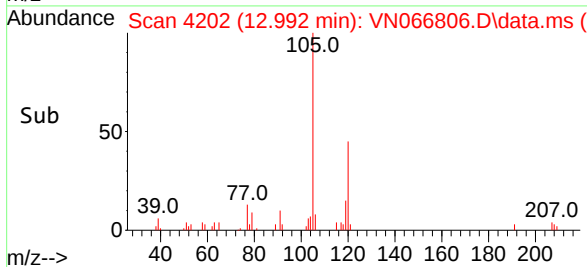
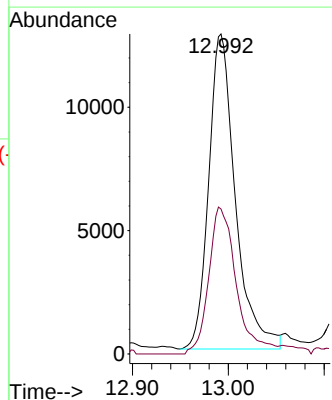
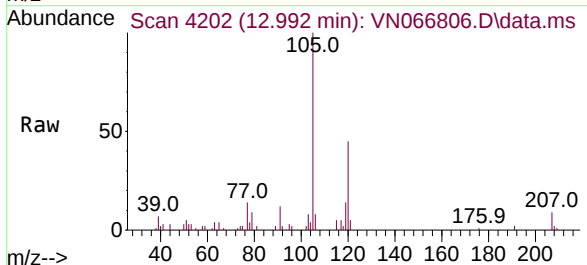


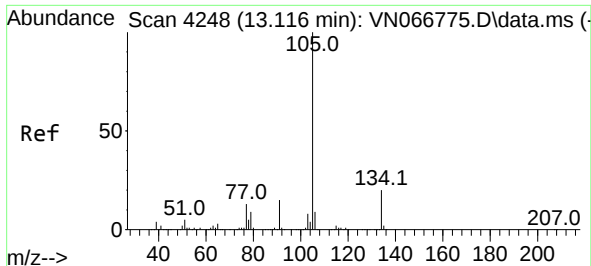
Tgt Ion: 75 Resp: 85750
Ion Ratio Lower Upper
75 100
53 0.0 74.6 111.8#
89 0.0 35.8 53.8#



#84
1,2,4-Trimethylbenzene
Concen: 2.16 ug/l
RT: 12.992 min Scan# 4202
Delta R.T. 0.008 min
Lab File: VN066806.D
Acq: 28 Apr 2021 12:47

Tgt Ion: 105 Resp: 24700
Ion Ratio Lower Upper
105 100
120 48.1 22.4 67.0

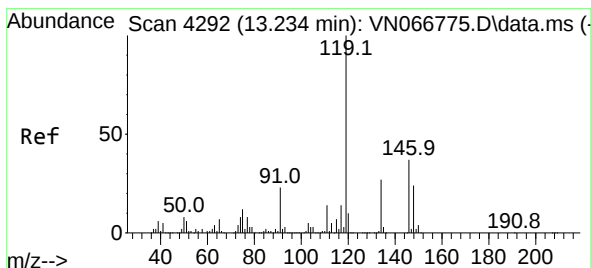
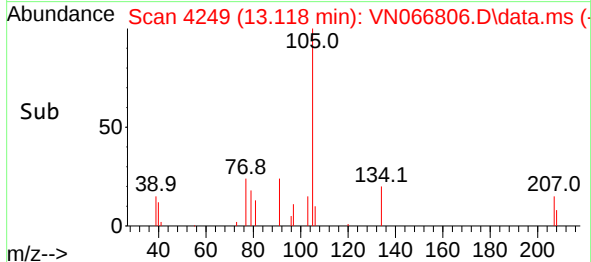
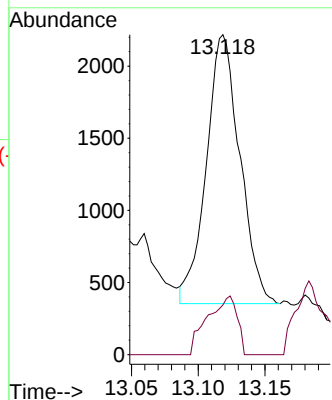
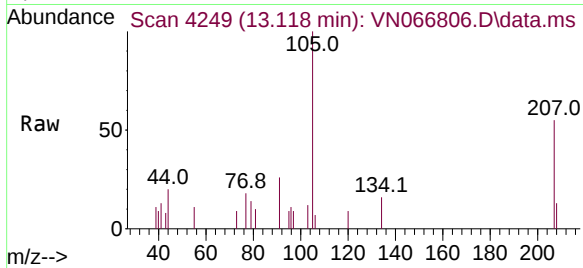




#85
 sec-Butylbenzene
 Concen: 0.24 ug/l
 RT: 13.118 min Scan# 4249
 Delta R.T. 0.002 min
 Lab File: VN066806.D
 Acq: 28 Apr 2021 12:47

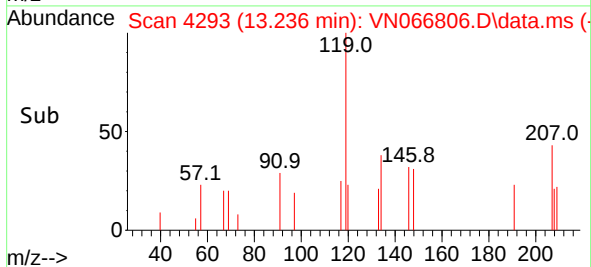
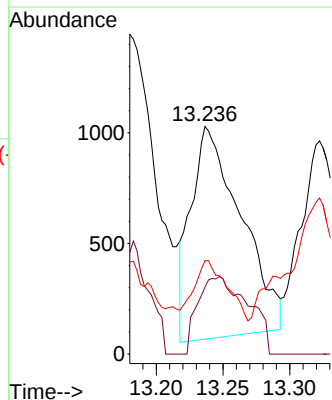
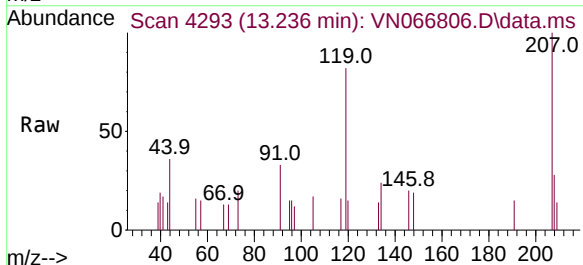
Instrument :
 MSVOA_N
 ClientSampled :

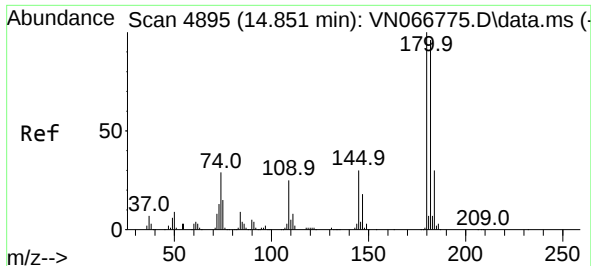
Tgt Ion:105 Resp: 3262
 Ion Ratio Lower Upper
 105 100
 134 19.2 10.0 30.0



#86
 p-Isopropyltoluene
 Concen: 0.22 ug/l
 RT: 13.236 min Scan# 4293
 Delta R.T. 0.002 min
 Lab File: VN066806.D
 Acq: 28 Apr 2021 12:47

Tgt Ion:119 Resp: 2494
 Ion Ratio Lower Upper
 119 100
 134 36.6 13.3 39.8
 91 18.4 11.8 35.3

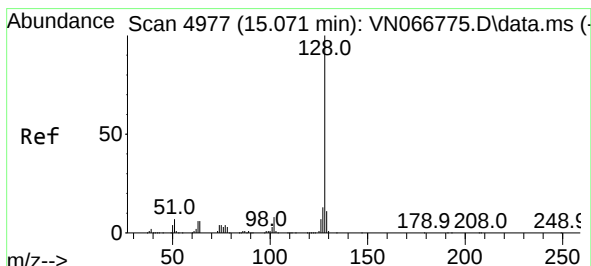
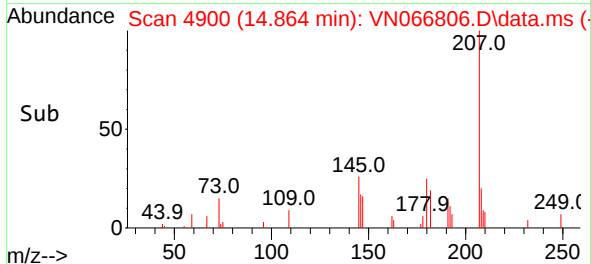
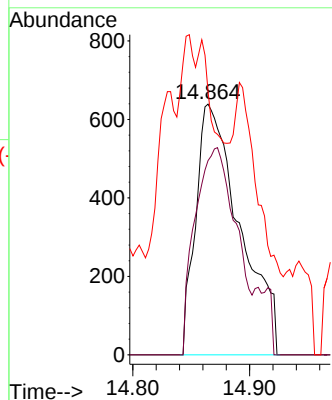
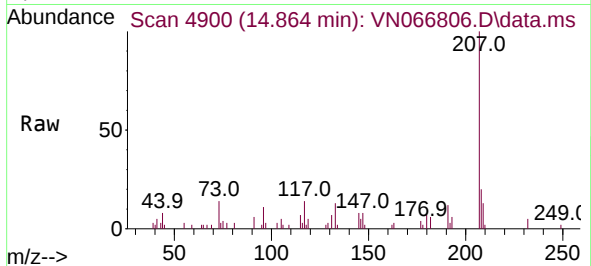




#93
1,2,4-Trichlorobenzene
Concen: 0.50 ug/l
RT: 14.864 min Scan# 4900
Delta R.T. 0.013 min
Lab File: VN066806.D
Acq: 28 Apr 2021 12:47

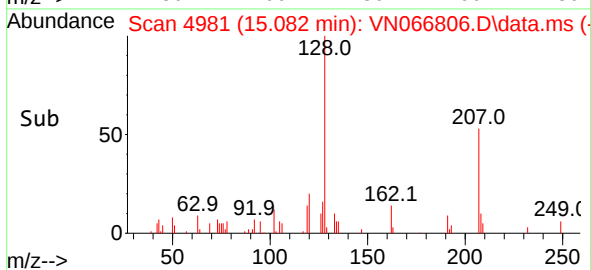
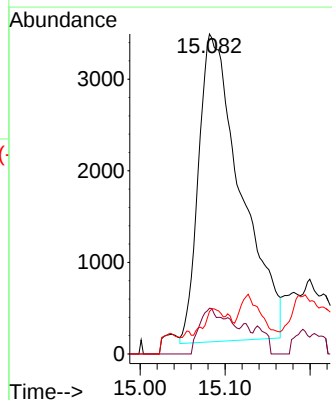
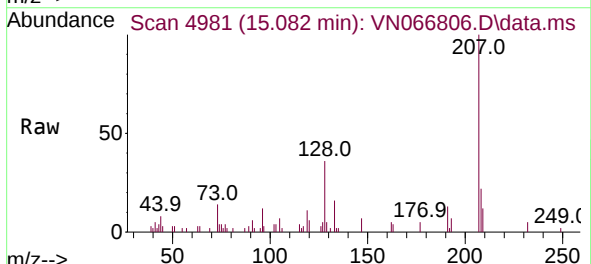
Instrument :
MSVOA_N
ClientSampled :

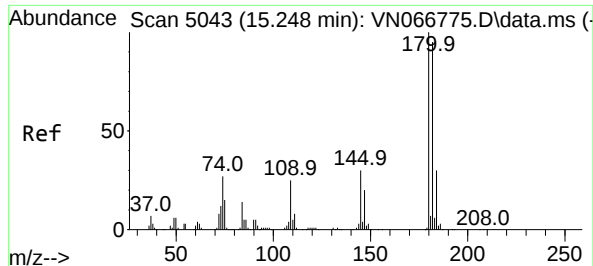
Tgt Ion:180 Resp: 1677
Ion Ratio Lower Upper
180 100
182 77.0 47.3 142.0
145 0.0 15.6 46.8#



#95
Naphthalene
Concen: 1.32 ug/l
RT: 15.082 min Scan# 4981
Delta R.T. 0.011 min
Lab File: VN066806.D
Acq: 28 Apr 2021 12:47

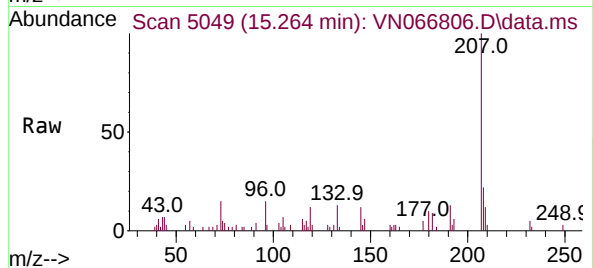
Tgt Ion:128 Resp: 11513
Ion Ratio Lower Upper
128 100
127 10.7 10.2 15.2
129 3.4 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.70 ug/l
 RT: 15.264 min Scan# 5049
 Delta R.T. 0.016 min
 Lab File: VN066806.D
 Acq: 28 Apr 2021 12:47

Instrument :
 MSVOA_N
 ClientSampled :



Tgt Ion:180 Resp: 2291
 Ion Ratio Lower Upper
 180 100
 182 92.4 47.4 142.3
 145 105.6 16.5 49.5#

