

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011421\
 Data File : VN065514.D
 Acq On : 14 Jan 2021 17:30
 Operator : JC/MD
 Sample : M1150-02 5X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 15 04:15:14 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N011321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jan 14 04:12:08 2021
 Response via : Initial Calibration

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

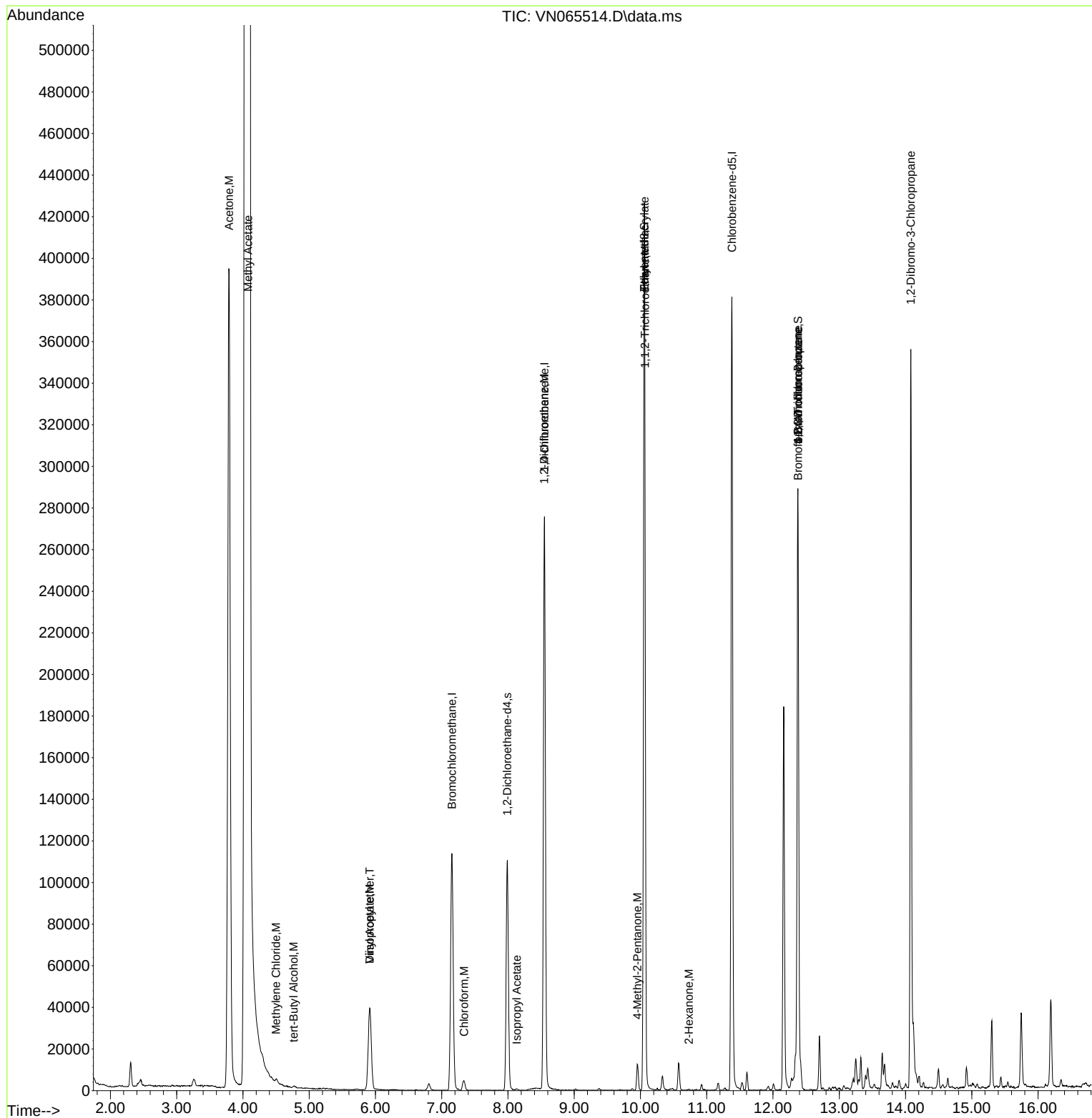
Internal Standards						
1) Bromochloromethane	7.155	128	51166	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.550	114	267814	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.380	117	243444	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.991	65	96106	30.07	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.23%
60) 4-Bromofluorobenzene	12.376	95	101729	27.59	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	91.97%
63) Toluene-d8	10.058	98	318389	29.88	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.60%
Target Compounds						
					Qvalue	
12) Methyl Acetate	4.078	43	3158428	1145.88	ug/l #	50
15) Acetone	3.791	58	238445	622.80	ug/l	92
18) Methylene Chloride	4.499	84	1093	0.36	ug/l #	66
20) Diisopropyl ether	5.914	45	51541	6.17	ug/l	91
23) tert-Butyl Alcohol	4.766	59	177	0.46	ug/l #	100
25) Chloroform	7.338	83	3183	0.62	ug/l	91
36) 1,2-Dichloroethane	8.547	62	7693	1.99	ug/l #	74
42) Vinyl Acetate	5.914	43	27662	4.16	ug/l #	73
44) Isopropyl Acetate	8.132	43	1222	0.22	ug/l #	1
50) 1,1,2-Trichloroethane	10.068	97	10852	3.64	ug/l #	1
51) Ethyl methacrylate	10.061	69	859	0.21	ug/l	90
56) Bromoform	12.380	173	627	0.24	ug/l #	1
58) 4-Methyl-2-Pentanone	9.952	43	9664	2.99	ug/l	95
59) 2-Hexanone	10.730	43	674	0.29	ug/l #	41
72) 1,2,3-Trichloropropane	12.376	75	47466	12.81	ug/l	1
77) t-1,4-Dichloro-2-butene	12.376	75	47466	36.43	ug/l #	14
88) 1,2-Dibromo-3-Chloropr...	14.080	75	10921	15.66	ug/l #	1

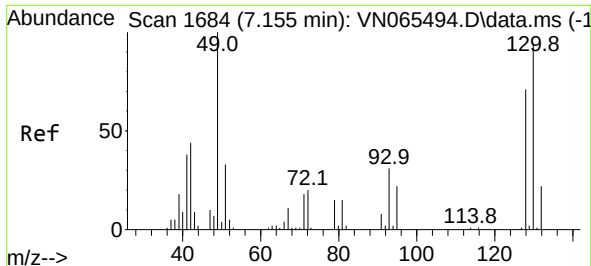
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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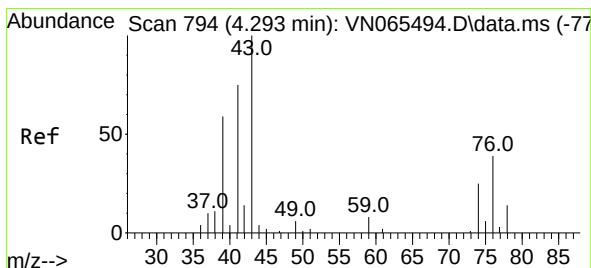
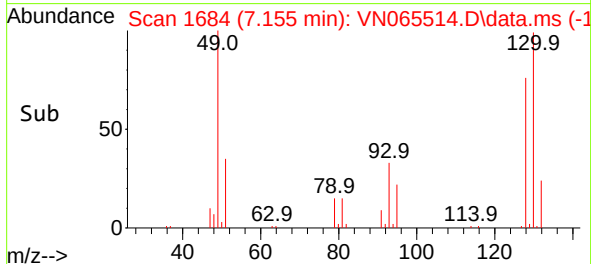
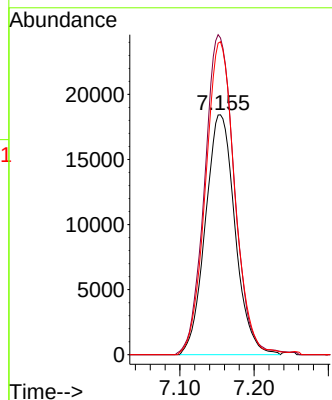
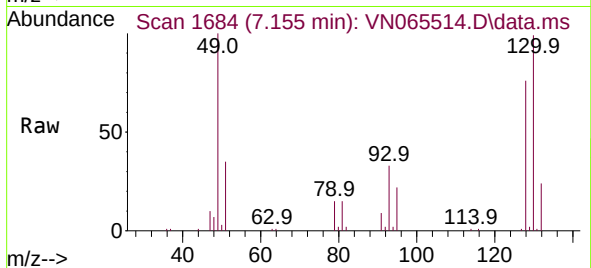




#1
Bromochloromethane
Concen: 30.00 ug/l
RT: 7.155 min Scan# 1684
Delta R.T. -0.000 min
Lab File: VN065514.D
Acq: 14 Jan 2021 17:30

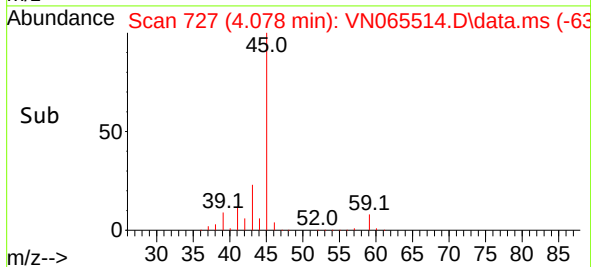
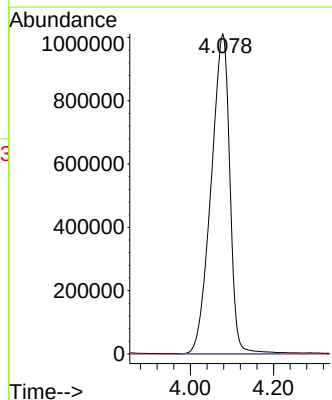
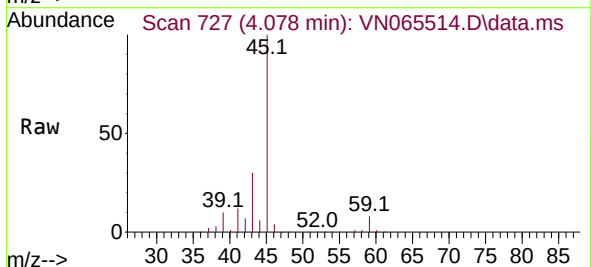
Instrument :
MSVOA_N
ClientSampleId :

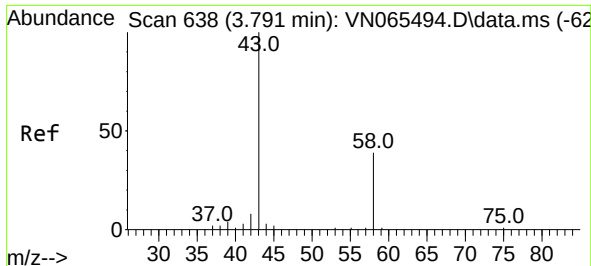
Tgt Ion:128 Resp: 51166
Ion Ratio Lower Upper
128 100
49 133.2 0.0 355.0
130 128.7 0.0 325.5



#12
Methyl Acetate
Concen: 1145.88 ug/l
RT: 4.078 min Scan# 727
Delta R.T. -0.215 min
Lab File: VN065514.D
Acq: 14 Jan 2021 17:30

Tgt Ion: 43 Resp: 3158428
Ion Ratio Lower Upper
43 100
74 0.0 19.9 29.9#

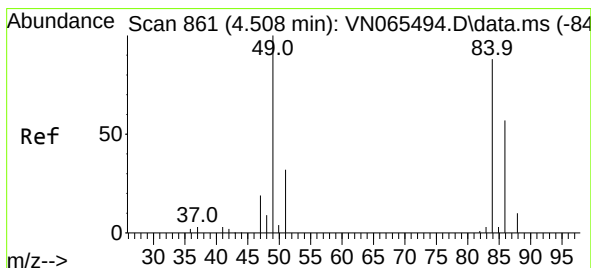
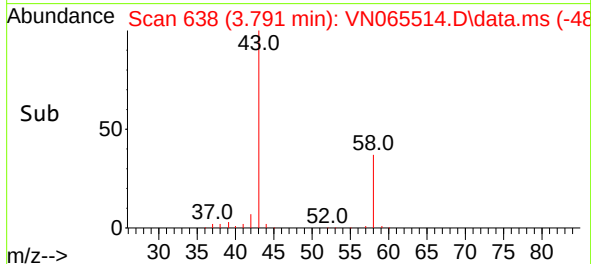
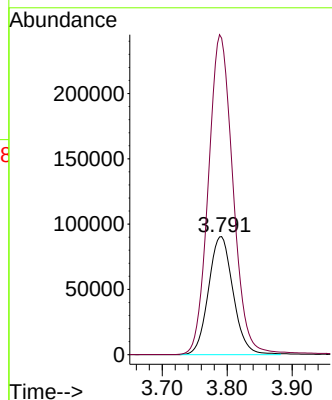
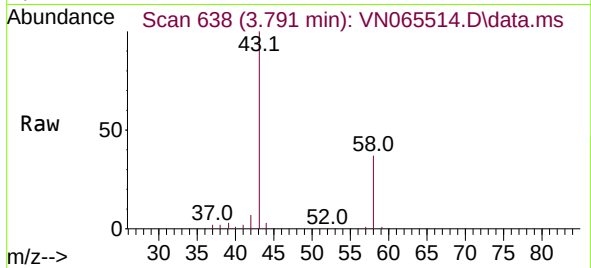




#15
Acetone
Concen: 622.80 ug/l
RT: 3.791 min Scan# 638
Delta R.T. 0.000 min
Lab File: VN065514.D
Acq: 14 Jan 2021 17:30

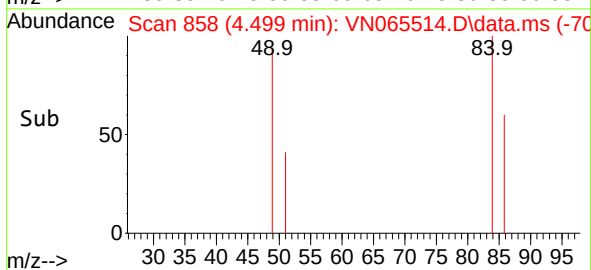
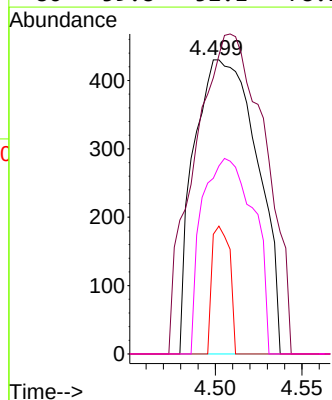
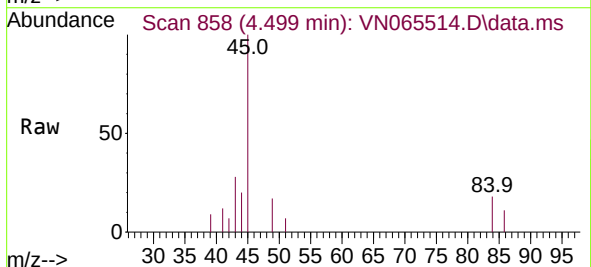
Instrument :
MSVOA_N
ClientSampleId :

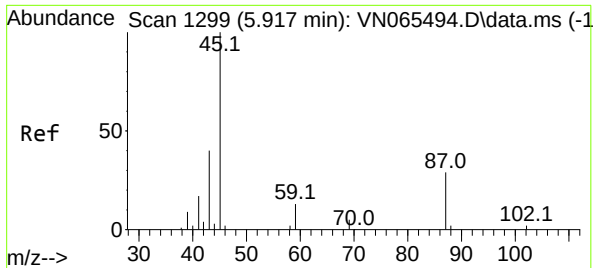
Tgt Ion: 58 Resp: 238445
Ion Ratio Lower Upper
58 100
43 267.5 203.4 305.0



#18
Methylene Chloride
Concen: 0.36 ug/l
RT: 4.499 min Scan# 858
Delta R.T. -0.010 min
Lab File: VN065514.D
Acq: 14 Jan 2021 17:30

Tgt Ion: 84 Resp: 1093
Ion Ratio Lower Upper
84 100
49 52.6 91.3 136.9#
51 40.7 28.8 43.2
86 59.8 52.1 78.1





#20

Diisopropyl ether

Concen: 6.17 ug/l

RT: 5.914 min Scan# 1298

Delta R.T. -0.003 min

Lab File: VN065514.D

Acq: 14 Jan 2021 17:30

Tgt Ion: 45 Resp: 51541

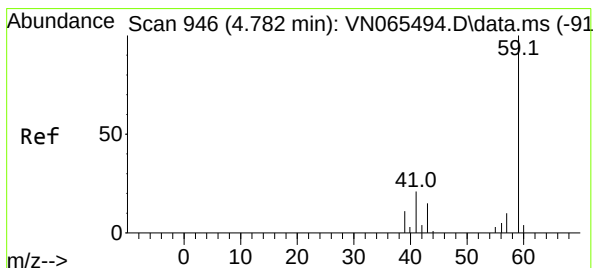
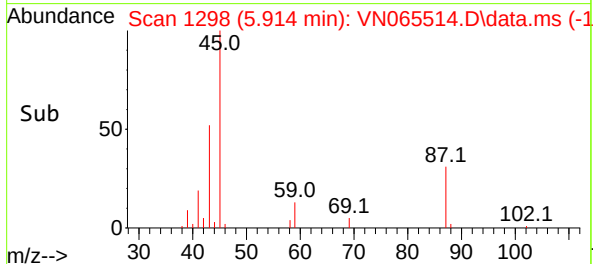
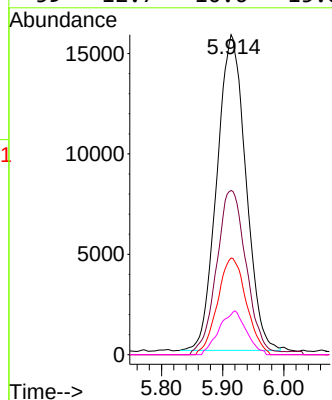
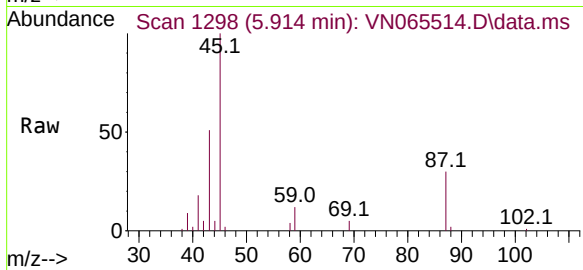
Ion Ratio Lower Upper

45 100

43 52.0 50.4 75.6

87 30.6 24.5 36.7

59 12.7 10.6 15.8



#23

tert-Butyl Alcohol

Concen: 0.46 ug/l

RT: 4.766 min Scan# 941

Delta R.T. -0.016 min

Lab File: VN065514.D

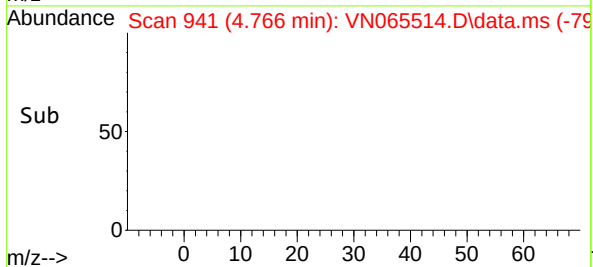
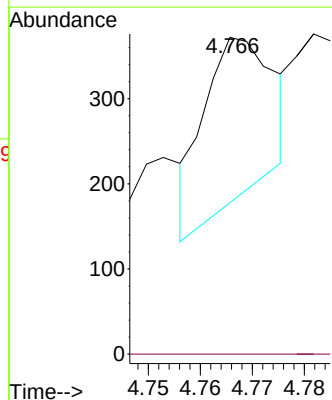
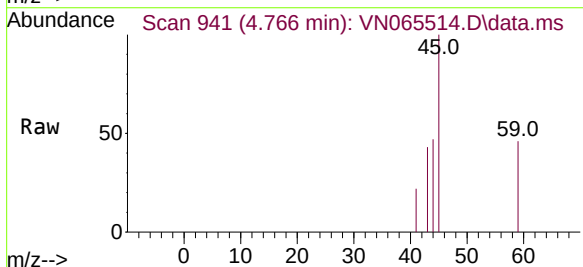
Acq: 14 Jan 2021 17:30

Tgt Ion: 59 Resp: 177

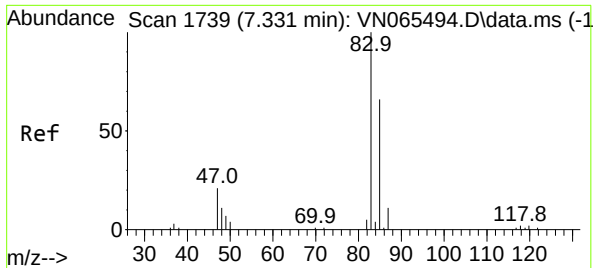
Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0



Instrument :
MSVOA_N
ClientSampleId :



#25

Chloroform

Concen: 0.62 ug/l

RT: 7.338 min Scan# 1741

Delta R.T. 0.007 min

Lab File: VN065514.D

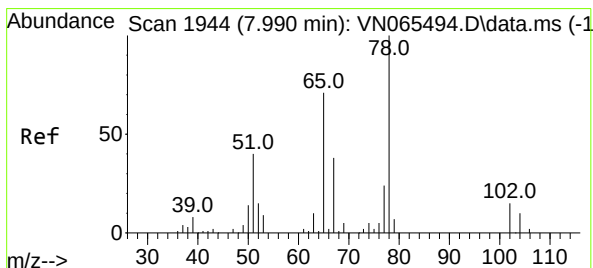
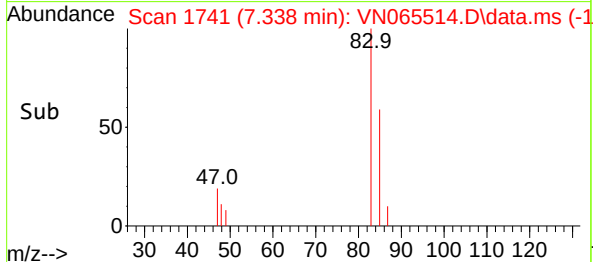
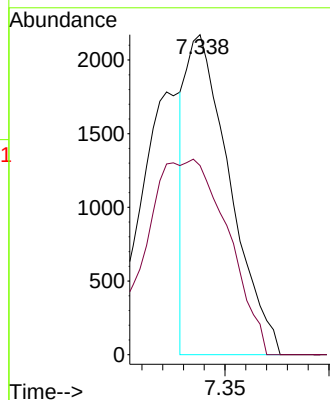
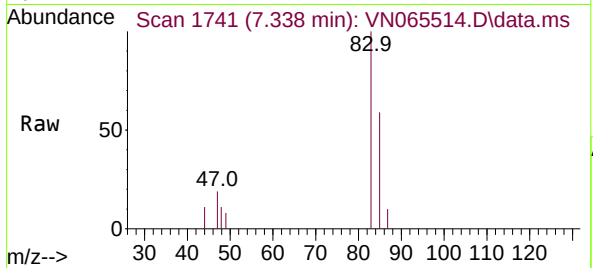
Acq: 14 Jan 2021 17:30

Tgt Ion: 83 Resp: 3183

Ion Ratio Lower Upper

83 100

85 59.1 53.0 79.4



#27

1,2-Dichloroethane-d4

Concen: 30.07 ug/l

RT: 7.991 min Scan# 1944

Delta R.T. 0.000 min

Lab File: VN065514.D

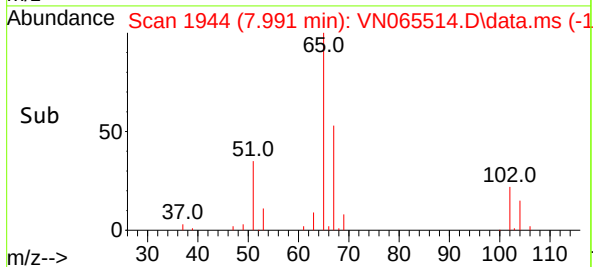
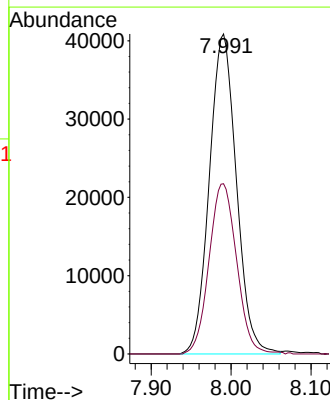
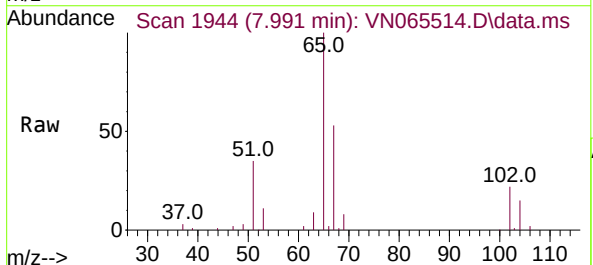
Acq: 14 Jan 2021 17:30

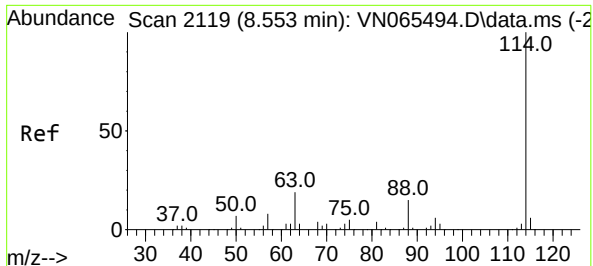
Tgt Ion: 65 Resp: 96106

Ion Ratio Lower Upper

65 100

67 54.2 42.8 64.2





#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 8.550 min Scan# 2118

Delta R.T. -0.003 min

Lab File: VN065514.D

Acq: 14 Jan 2021 17:30

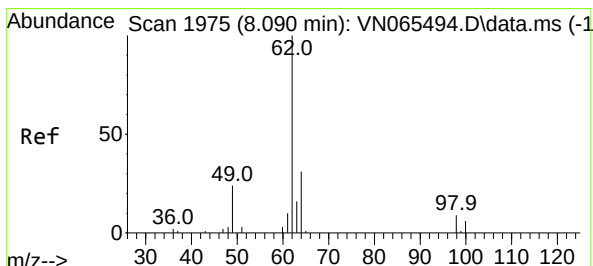
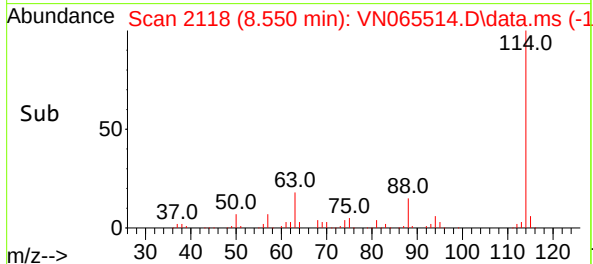
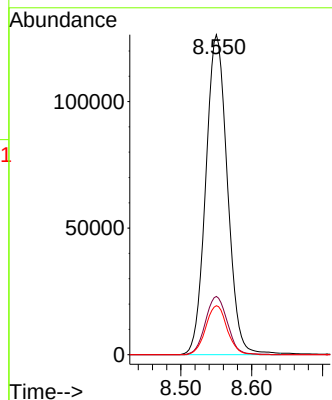
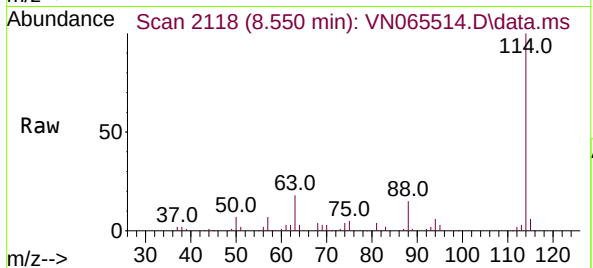
Tgt Ion:114 Resp: 267814

Ion Ratio Lower Upper

114 100

63 18.6 14.7 22.1

88 15.2 11.7 17.5



#36

1,2-Dichloroethane

Concen: 1.99 ug/l

RT: 8.547 min Scan# 2117

Delta R.T. 0.457 min

Lab File: VN065514.D

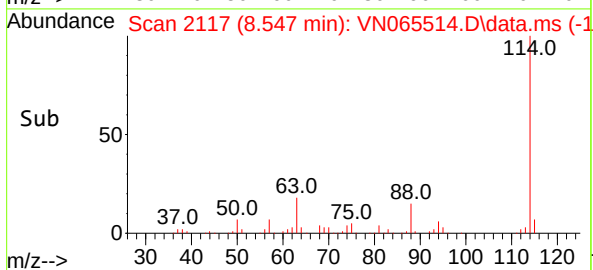
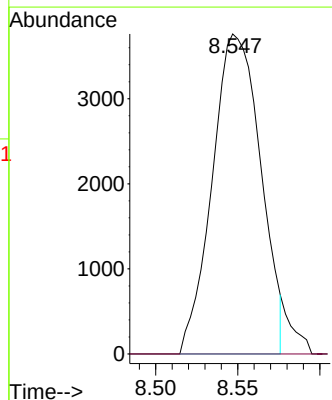
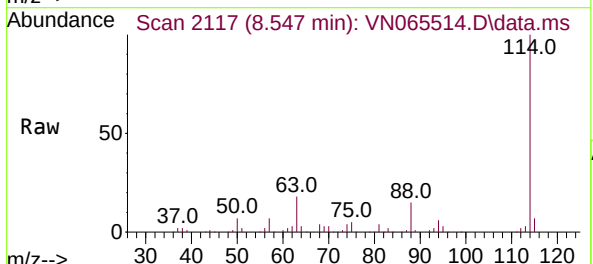
Acq: 14 Jan 2021 17:30

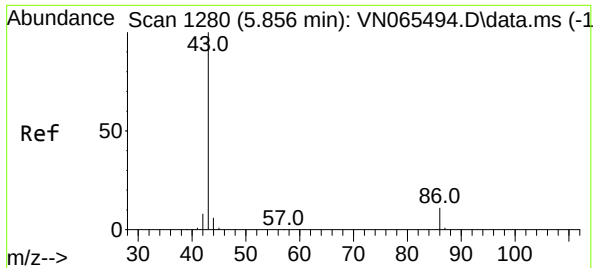
Tgt Ion: 62 Resp: 7693

Ion Ratio Lower Upper

62 100

98 0.0 7.4 11.2#

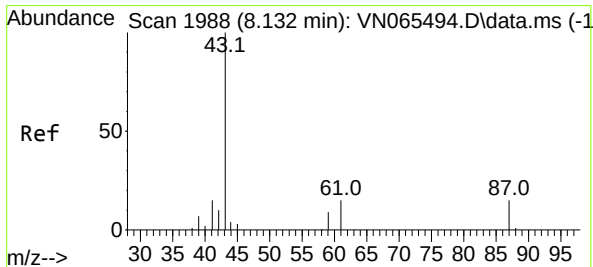
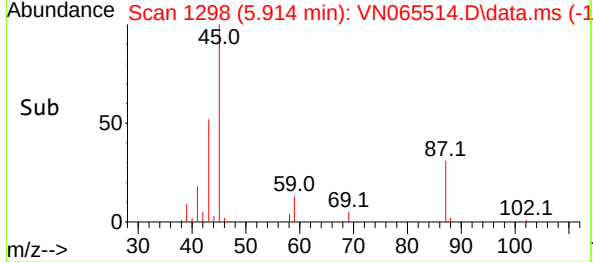
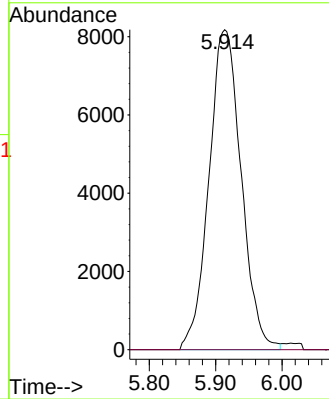
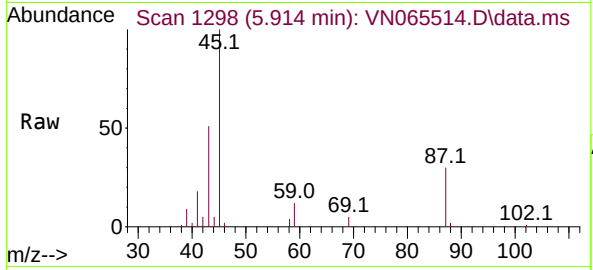




#42
 Vinyl Acetate
 Concen: 4.16 ug/l
 RT: 5.914 min Scan# 1298
 Delta R.T. 0.058 min
 Lab File: VN065514.D
 Acq: 14 Jan 2021 17:30

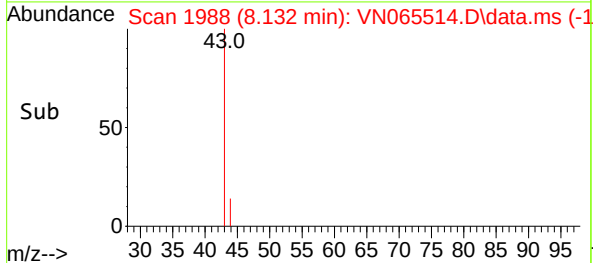
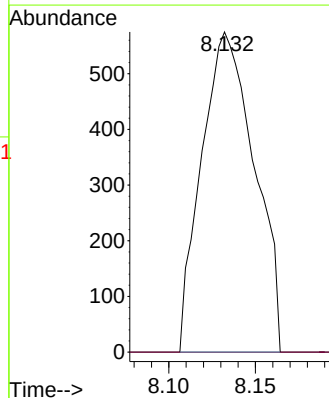
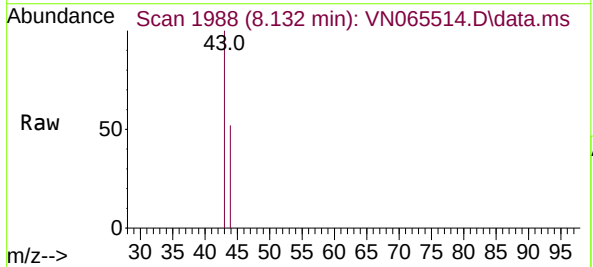
Instrument :
 MSVOA_N
 ClientSampled :

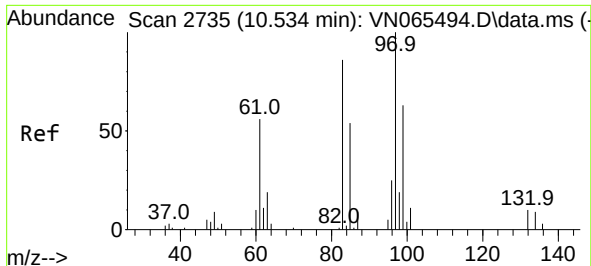
Tgt Ion: 43 Resp: 27662
 Ion Ratio Lower Upper
 43 100
 86 0.0 7.9 11.9#



#44
 Isopropyl Acetate
 Concen: 0.22 ug/l
 RT: 8.132 min Scan# 1988
 Delta R.T. 0.000 min
 Lab File: VN065514.D
 Acq: 14 Jan 2021 17:30

Tgt Ion: 43 Resp: 1222
 Ion Ratio Lower Upper
 43 100
 61 142.6 16.8 25.2#

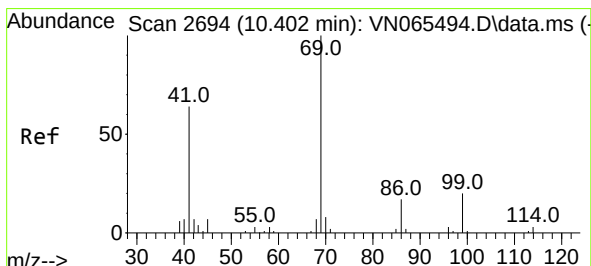
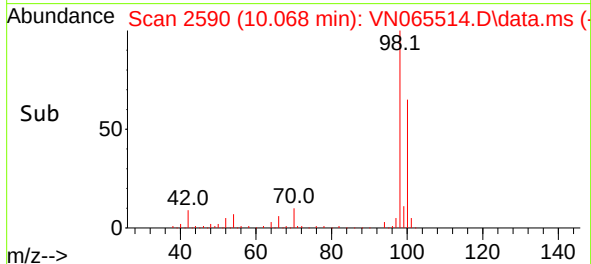
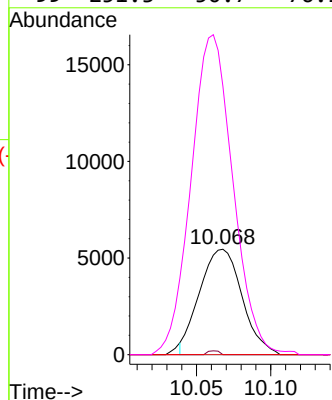
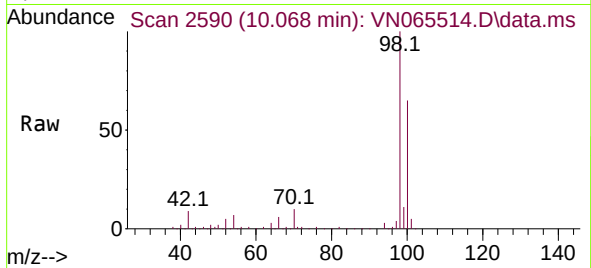




#50
1,1,2-Trichloroethane
Concen: 3.64 ug/l
RT: 10.068 min Scan# 2590
Delta R.T. -0.466 min
Lab File: VN065514.D
Acq: 14 Jan 2021 17:30

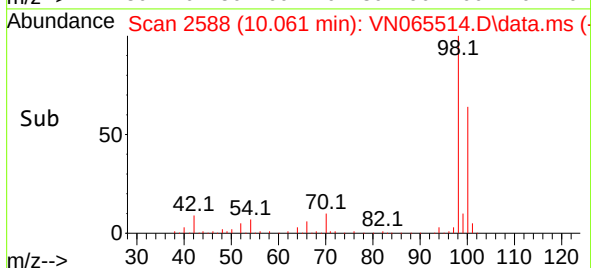
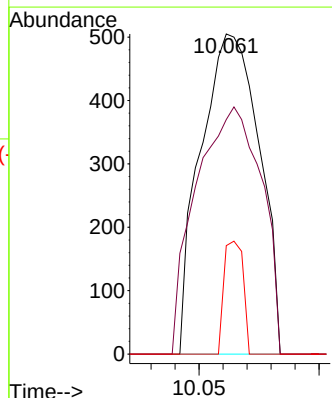
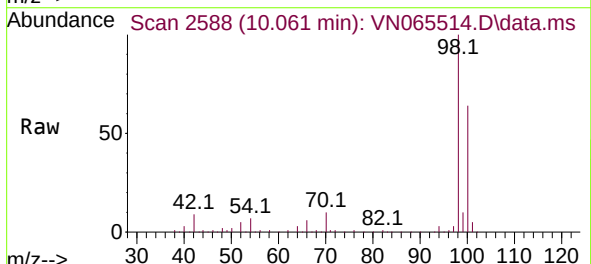
Instrument :
MSVOA_N
ClientSampleId :

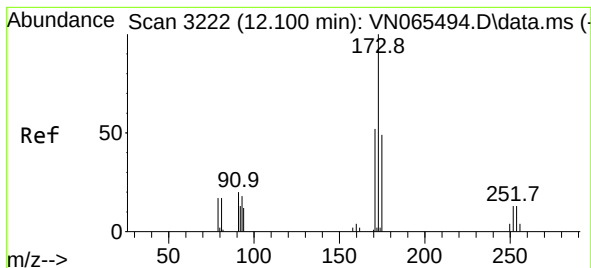
Tgt Ion: 97 Resp: 10852
Ion Ratio Lower Upper
97 100
83 0.0 68.4 102.6#
85 0.0 42.8 64.2#
99 251.3 50.7 76.1#



#51
Ethyl methacrylate
Concen: 0.21 ug/l
RT: 10.061 min Scan# 2588
Delta R.T. -0.341 min
Lab File: VN065514.D
Acq: 14 Jan 2021 17:30

Tgt Ion: 69 Resp: 859
Ion Ratio Lower Upper
69 100
41 73.3 31.9 95.7
39 33.9 15.6 46.7





#56

Bromoform

Concen: 0.24 ug/l

RT: 12.380 min Scan# 3309

Delta R.T. 0.280 min

Lab File: VN065514.D

Acq: 14 Jan 2021 17:30

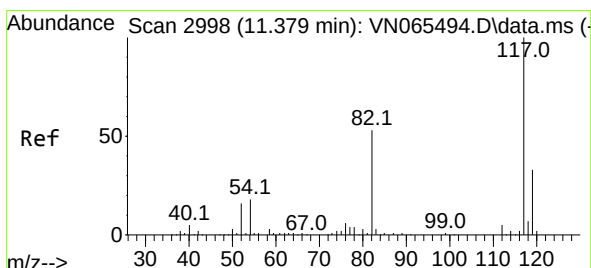
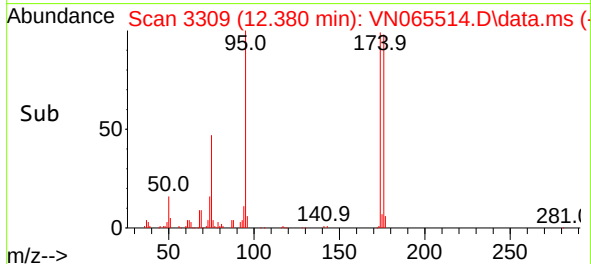
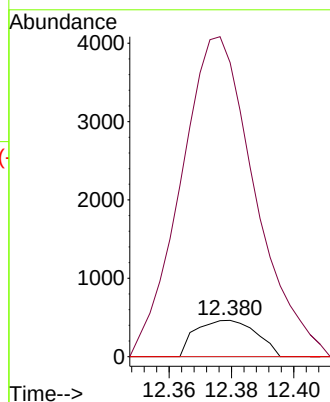
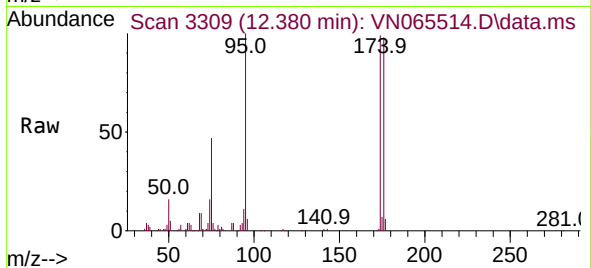
Tgt Ion:173 Resp: 627

Ion Ratio Lower Upper

173 100

175 1075.9 38.2 57.4#

254 0.0 9.8 14.8#



#57

Chlorobenzene-d5

Concen: 30.00 ug/l

RT: 11.380 min Scan# 2998

Delta R.T. 0.001 min

Lab File: VN065514.D

Acq: 14 Jan 2021 17:30

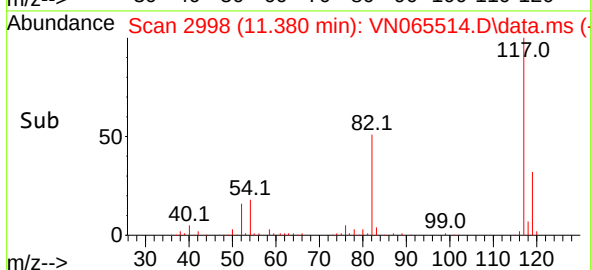
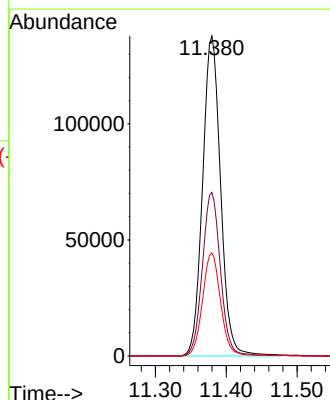
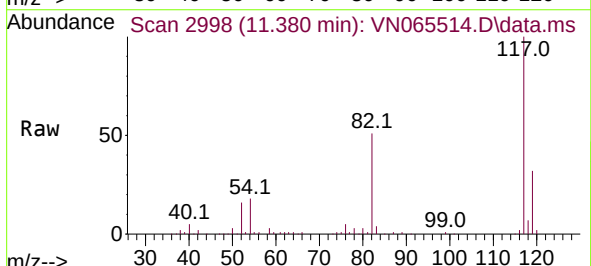
Tgt Ion:117 Resp: 243444

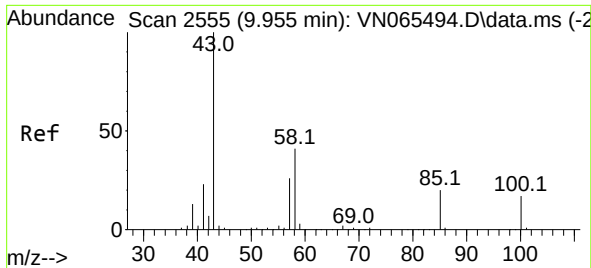
Ion Ratio Lower Upper

117 100

82 51.5 41.3 61.9

119 32.2 25.7 38.5

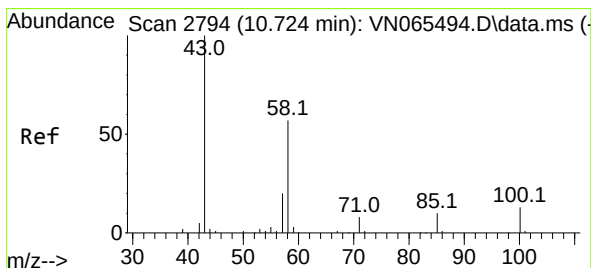
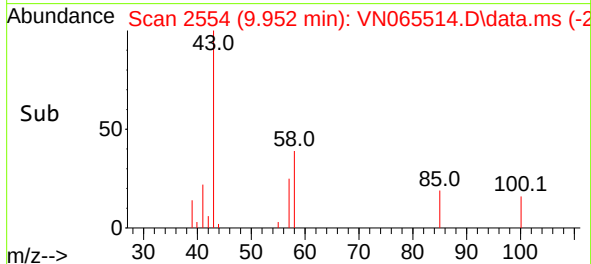
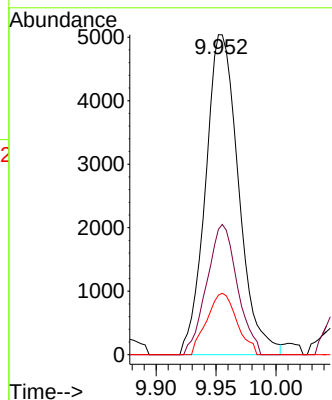
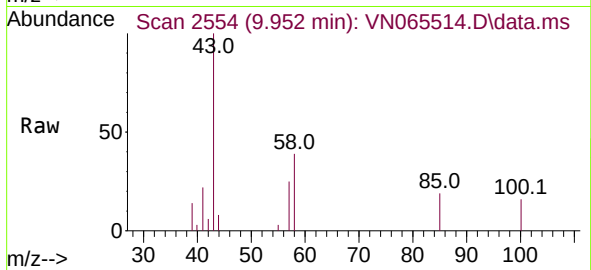




#58
4-Methyl-2-Pentanone
Concen: 2.99 ug/l
RT: 9.952 min Scan# 2554
Delta R.T. -0.003 min
Lab File: VN065514.D
Acq: 14 Jan 2021 17:30

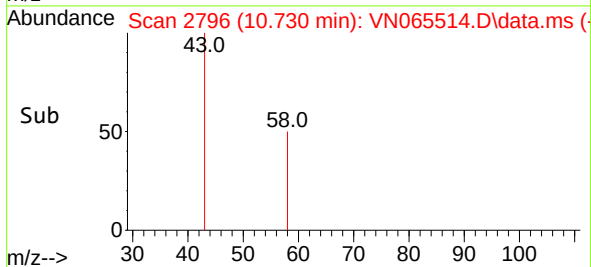
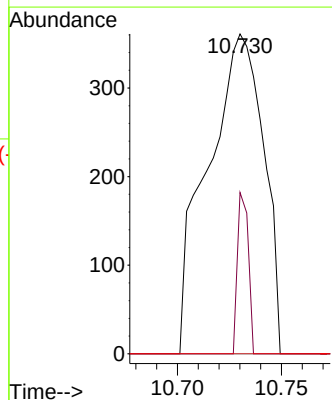
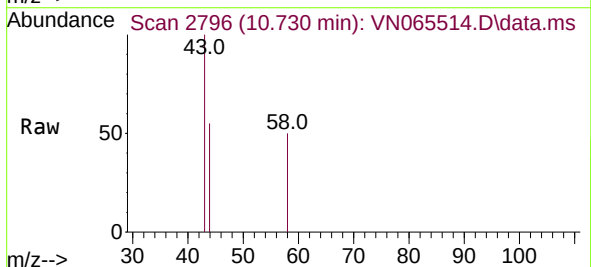
Instrument :
MSVOA_N
ClientSampled :

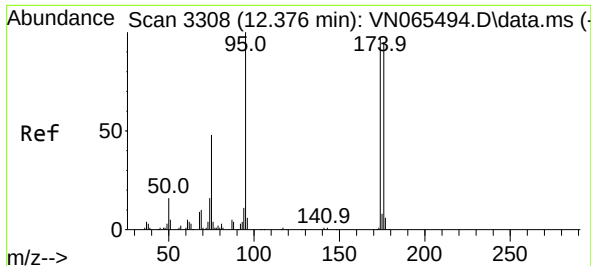
Tgt Ion:	43	Resp:	9664
Ion	Ratio	Lower	Upper
43	100		
58	37.7	32.7	49.1
85	17.5	16.0	24.0



#59
2-Hexanone
Concen: 0.29 ug/l
RT: 10.730 min Scan# 2796
Delta R.T. 0.007 min
Lab File: VN065514.D
Acq: 14 Jan 2021 17:30

Tgt Ion:	43	Resp:	674
Ion	Ratio	Lower	Upper
43	100		
58	9.8	45.4	68.0#
57	0.0	15.8	23.8#

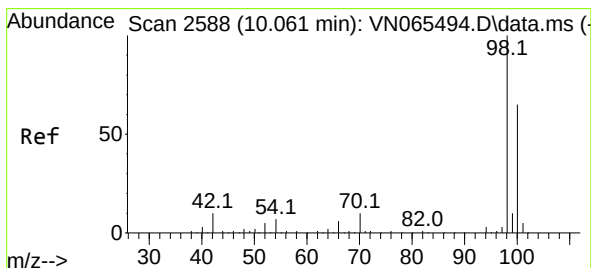
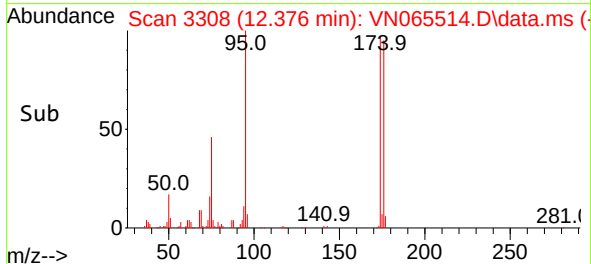
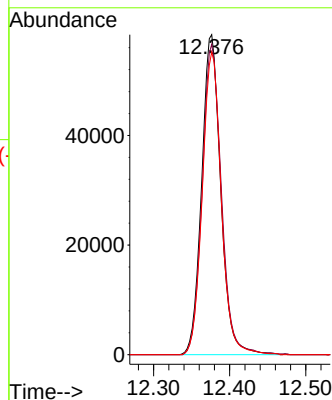
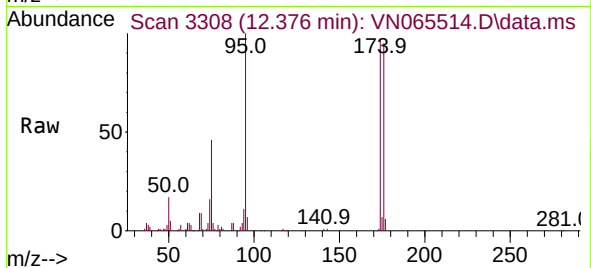




#60
4-Bromofluorobenzene
Concen: 27.59 ug/l
RT: 12.376 min Scan# 3308
Delta R.T. 0.000 min
Lab File: VN065514.D
Acq: 14 Jan 2021 17:30

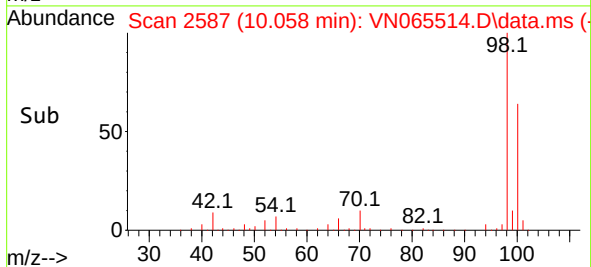
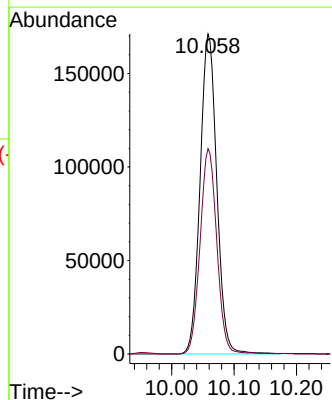
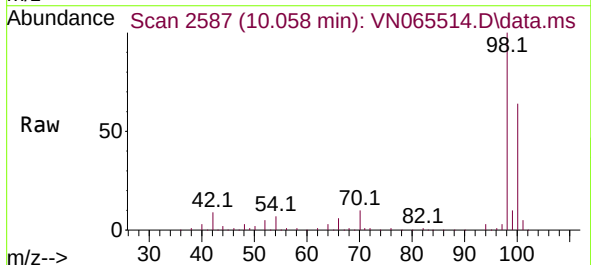
Instrument :
MSVOA_N
ClientSampleId :

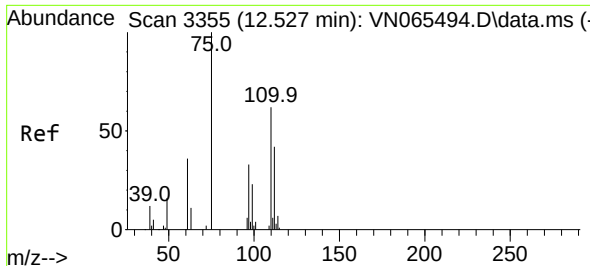
Tgt Ion: 95 Resp: 101729
Ion Ratio Lower Upper
95 100
174 97.3 77.0 115.6
176 94.0 75.8 113.6



#63
Toluene-d8
Concen: 29.88 ug/l
RT: 10.058 min Scan# 2587
Delta R.T. -0.003 min
Lab File: VN065514.D
Acq: 14 Jan 2021 17:30

Tgt Ion: 98 Resp: 318389
Ion Ratio Lower Upper
98 100
100 63.8 51.9 77.9

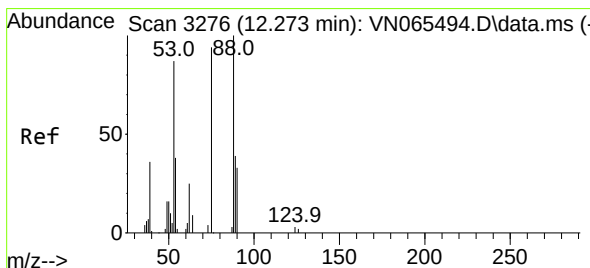
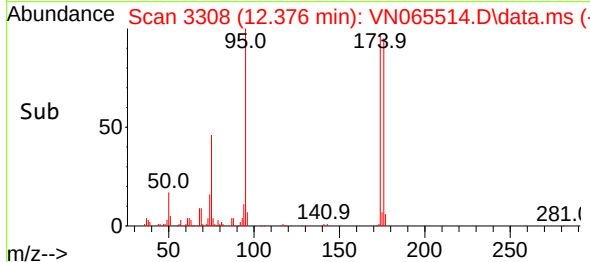
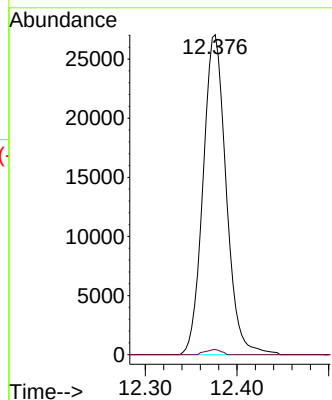
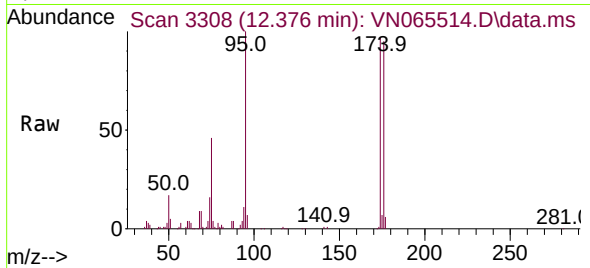




#72
1,2,3-Trichloropropane
Concen: 12.81 ug/l
RT: 12.376 min Scan# 3308
Delta R.T. -0.151 min
Lab File: VN065514.D
Acq: 14 Jan 2021 17:30

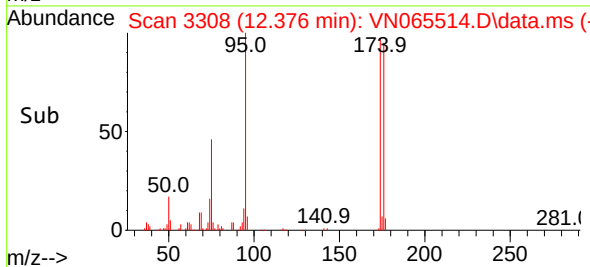
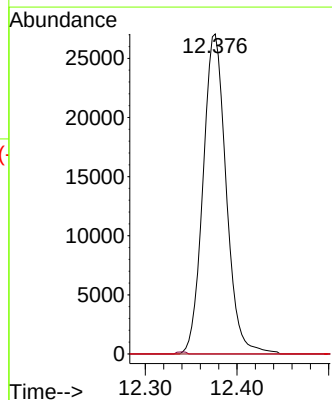
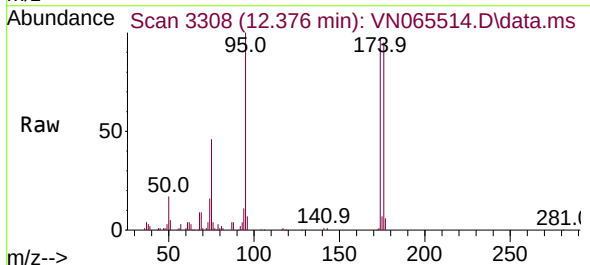
Instrument :
MSVOA_N
ClientSampleId :

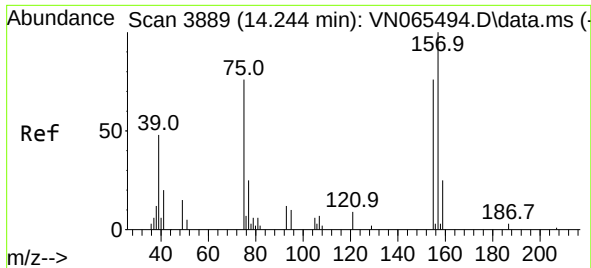
Tgt Ion: 75 Resp: 47466
Ion Ratio Lower Upper
75 100
77 1.1 0.0 366.4



#77
t-1,4-Dichloro-2-butene
Concen: 36.43 ug/l
RT: 12.376 min Scan# 3308
Delta R.T. 0.103 min
Lab File: VN065514.D
Acq: 14 Jan 2021 17:30

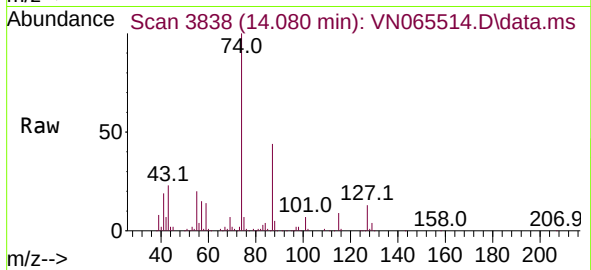
Tgt Ion: 75 Resp: 47466
Ion Ratio Lower Upper
75 100
53 0.0 44.9 134.5#
89 0.0 21.3 64.0#





#88
 1,2-Dibromo-3-Chloropropane
 Concen: 15.66 ug/l
 RT: 14.080 min Scan# 3838
 Delta R.T. -0.164 min
 Lab File: VN065514.D
 Acq: 14 Jan 2021 17:30

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 10921
 Ion Ratio Lower Upper
 75 100
 155 0.0 76.9 115.3#
 157 0.0 105.8 158.8#

