

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD042821\
 Data File : VD069002.D
 Acq On : 28 Apr 2021 14:15
 Operator : VA/SY
 Sample : M2198-01
 Misc : 5.02G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 29 06:31:38 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D040721S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 08 03:50:31 2021
 Response via : Initial Calibration

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

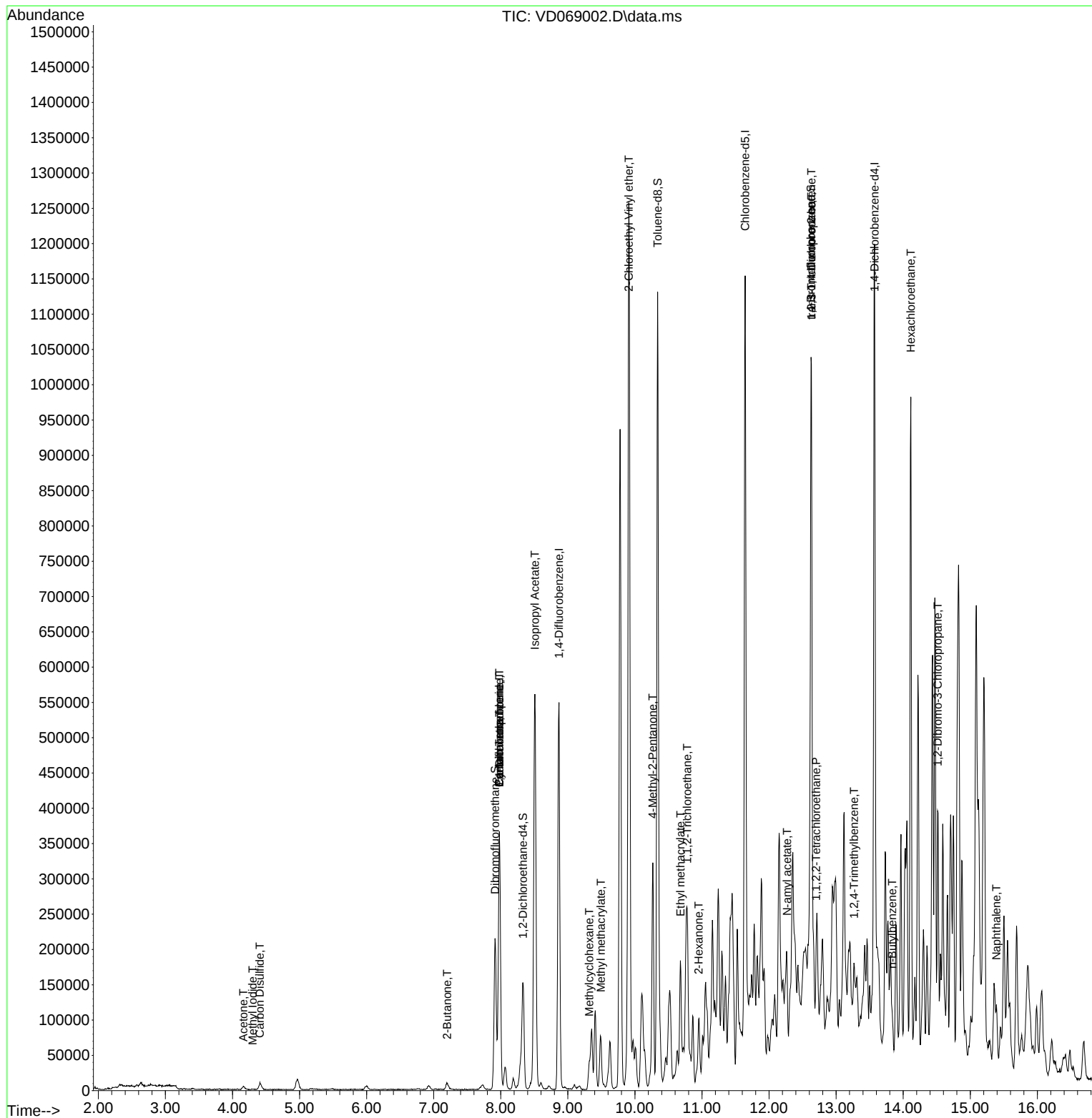
Internal Standards						
1) Pentafluorobenzene	7.979	168	278368	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.867	114	504182	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.643	117	620371	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.573	152	313021	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	121198	41.20	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	82.40%		
35) Dibromofluoromethane	7.914	113	151614	46.23	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	92.46%		
50) Toluene-d8	10.338	98	674938	54.56	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	109.12%		
62) 4-Bromofluorobenzene	12.626	95	305731	74.41	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	148.82%#		
Target Compounds					Qvalue	
10) Methyl Iodide	4.303	142	525	2.40	ug/l #	54
11) Tert butyl alcohol	5.197	59	257	Below Cal	#	73
16) Acetone	4.161	43	6550	16.08	ug/l #	82
17) Carbon Disulfide	4.409	76	17496	1.94	ug/l #	95
20) Methylene Chloride	4.967	84	12518	Below Cal	#	84
25) 2-Butanone	7.202	43	1210	2.10	ug/l #	87
31) Cyclohexane	7.979	56	7922	1.62	ug/l #	52
36) 1,1-Dichloropropene	7.979	75	20892	4.09	ug/l #	48
38) Carbon Tetrachloride	7.979	117	28213	5.58	ug/l #	15
39) Methylcyclohexane	9.320	83	8396	1.41	ug/l #	26
43) Isopropyl Acetate	8.508	43	98742	32.31	ug/l #	45
48) Methyl methacrylate	9.491	41	17897	11.88	ug/l #	31
51) 4-Methyl-2-Pentanone	10.267	43	29580	19.21	ug/l #	79
55) 1,1,2-Trichloroethane	10.779	97	79105	28.16	ug/l #	29
56) Ethyl methacrylate	10.679	69	17017	5.88	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.908	63	2269	18.36	ug/l #	44
59) 2-Hexanone	10.949	43	29412	28.54	ug/l #	26
74) N-amyl acetate	12.267	43	24540	6.33	ug/l #	59
75) 1,1,2,2-Tetrachloroethane	12.702	83	6977	1.63	ug/l #	89
76) 1,2,3-Trichloropropane	12.632	75	142047	49.67	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.632	75	142047	115.28	ug/l #	16
84) 1,2,4-Trimethylbenzene	13.267	105	48327	2.50	ug/l	98
89) n-Butylbenzene	13.837	91	34639	1.76	ug/l #	67
90) Hexachloroethane	14.114	117	48338	11.61	ug/l #	14
92) 1,2-Dibromo-3-Chloropr...	14.514	75	1947	3.00	ug/l #	1
95) Naphthalene	15.390	128	29122	2.87	ug/l #	95

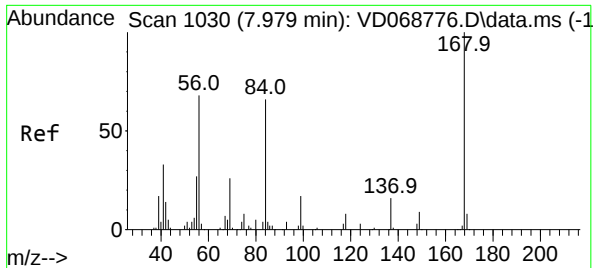
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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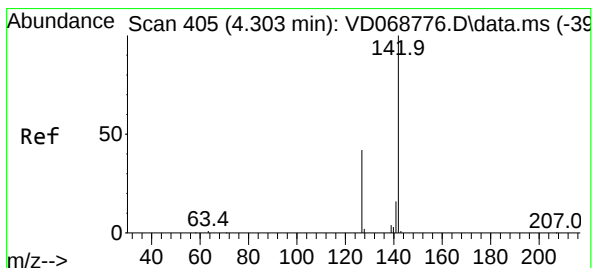
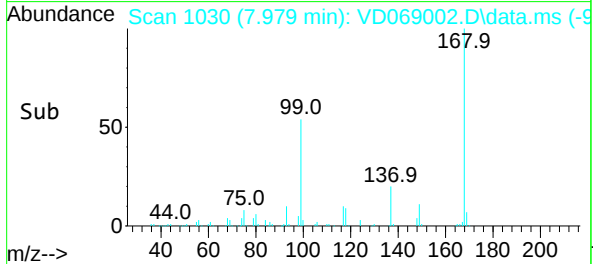
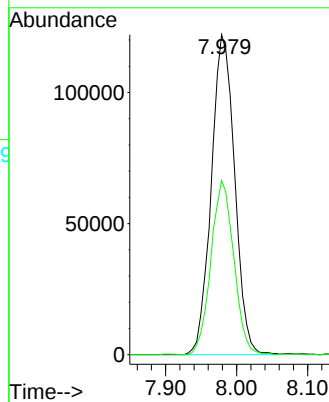
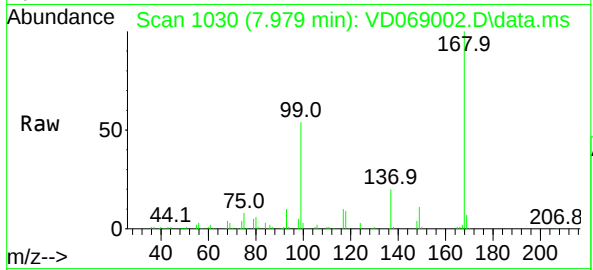




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.000 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

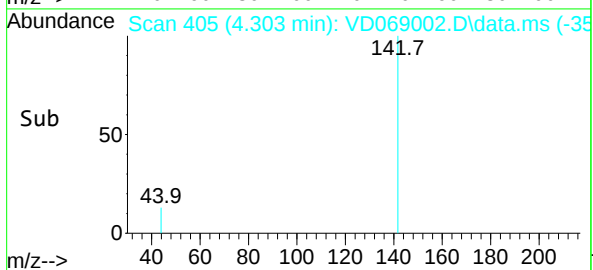
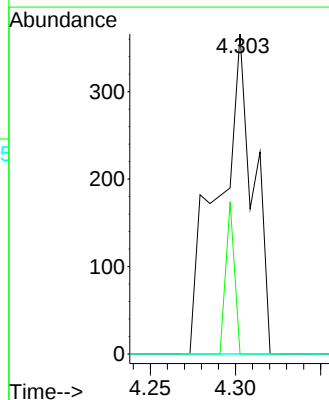
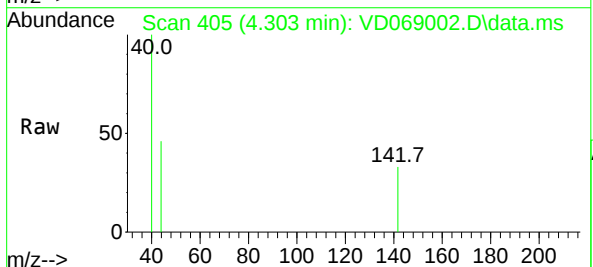
Instrument :
MSVOA_D
ClientSampled :

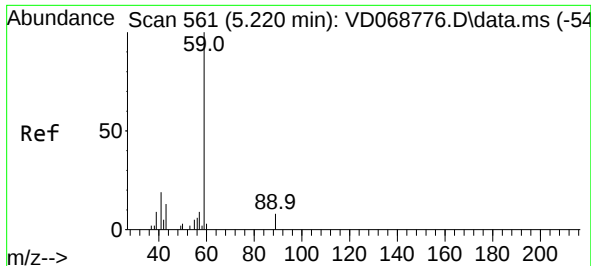
Tgt Ion:168 Resp: 278368
Ion Ratio Lower Upper
168 100
99 54.4 46.2 69.2



#10
Methyl Iodide
Concen: 2.40 ug/l
RT: 4.303 min Scan# 405
Delta R.T. -0.000 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

Tgt Ion:142 Resp: 525
Ion Ratio Lower Upper
142 100
127 11.6 34.7 52.1#
141 0.0 11.0 16.4#

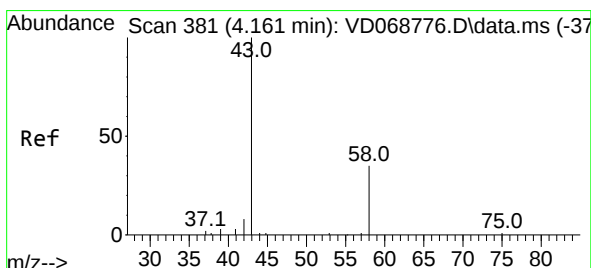
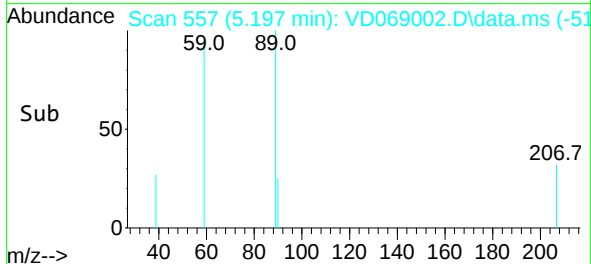
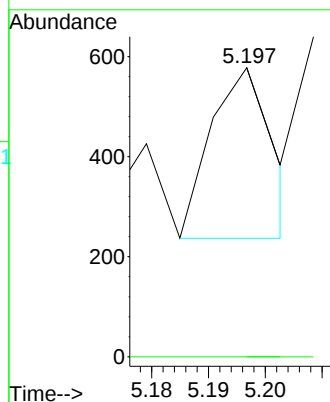
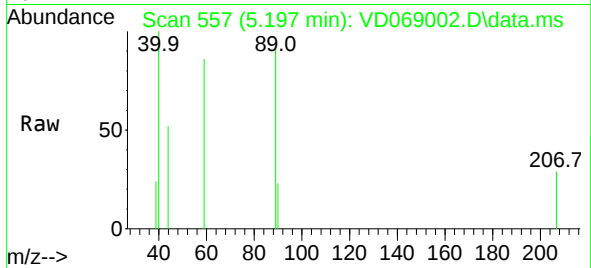




#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.197 min Scan# 557
Delta R.T. -0.023 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

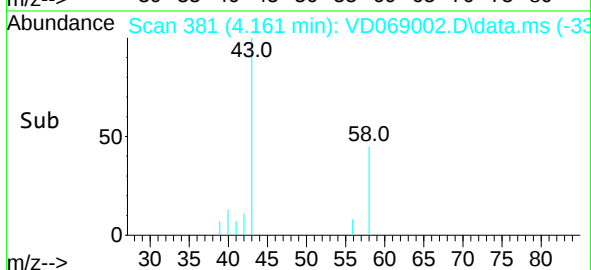
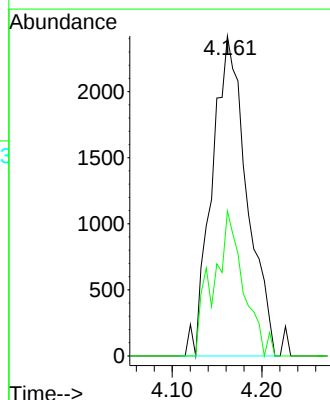
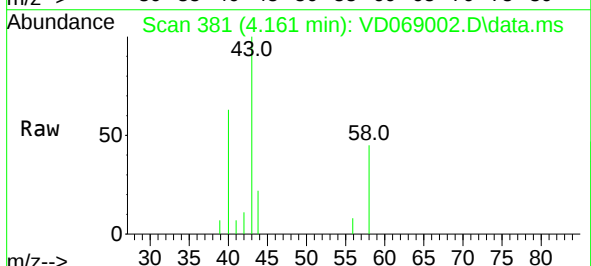
Instrument :
MSVOA_D
ClientSampled :

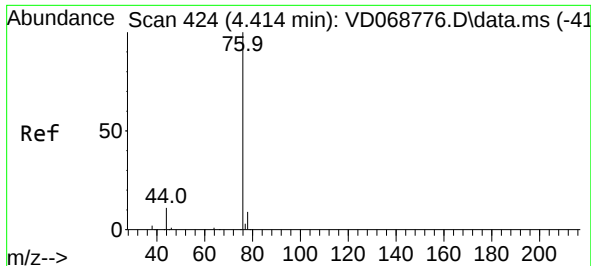
Tgt Ion: 59 Resp: 257
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#



#16
Acetone
Concen: 16.08 ug/l
RT: 4.161 min Scan# 381
Delta R.T. 0.000 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

Tgt Ion: 43 Resp: 6550
Ion Ratio Lower Upper
43 100
58 45.3 28.0 42.0#

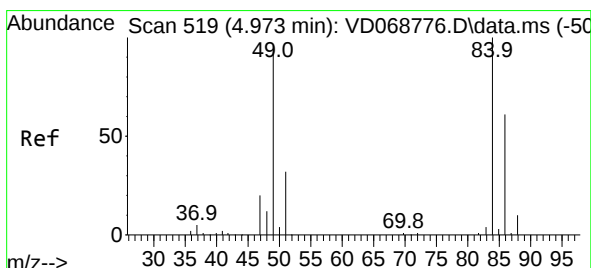
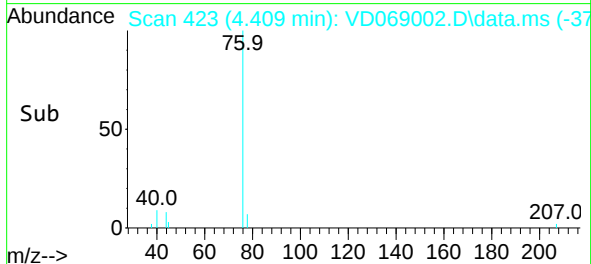
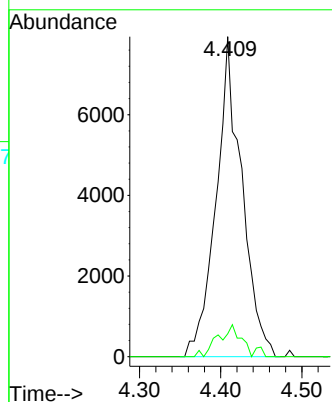
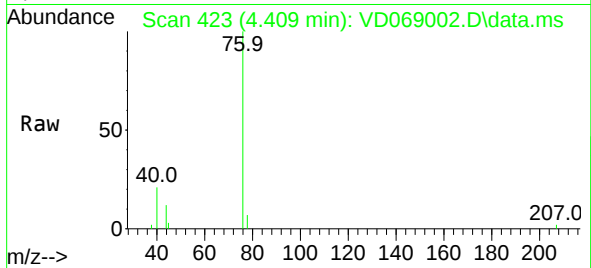




#17
Carbon Disulfide
Concen: 1.94 ug/l
RT: 4.409 min Scan# 423
Delta R.T. -0.005 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

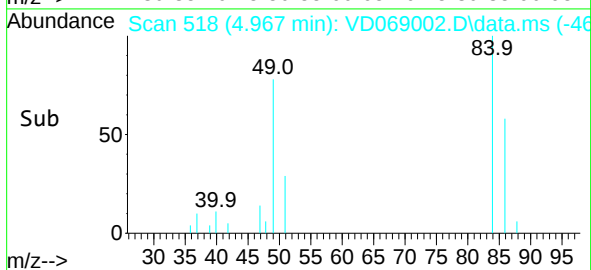
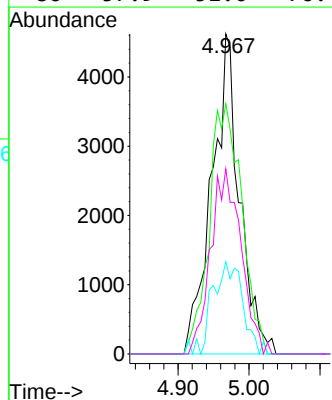
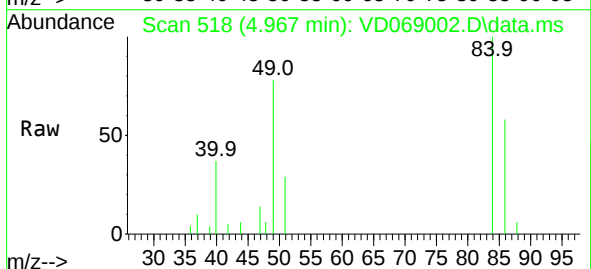
Instrument :
MSVOA_D
ClientSampled :

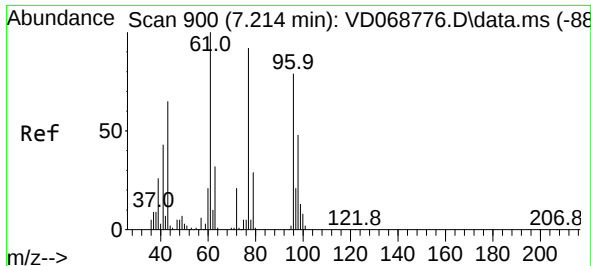
Tgt Ion: 76 Resp: 17496
Ion Ratio Lower Upper
76 100
78 7.2 7.3 10.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.967 min Scan# 518
Delta R.T. -0.006 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

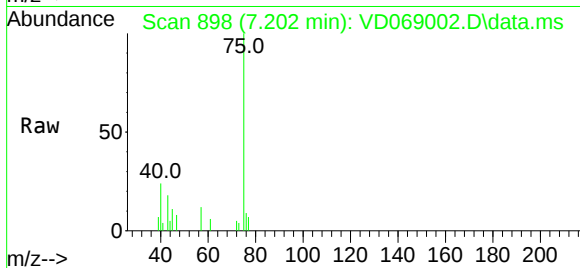
Tgt Ion: 84 Resp: 12518
Ion Ratio Lower Upper
84 100
49 78.2 83.4 125.0#
51 28.8 23.4 35.2
86 57.9 51.0 76.4



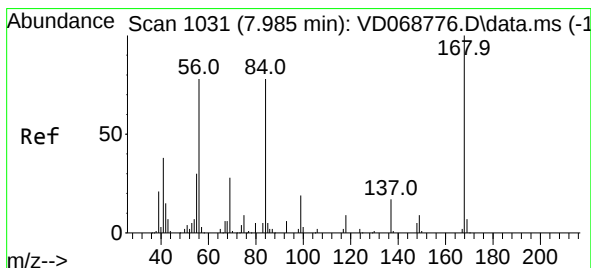
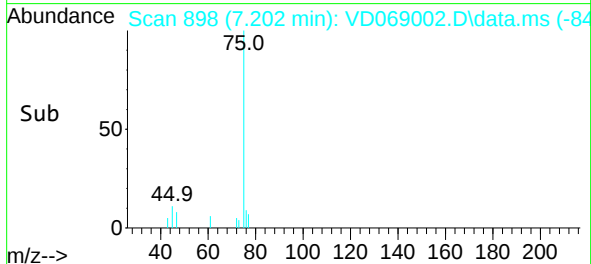
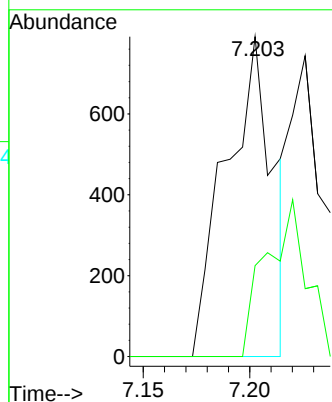


#25
2-Butanone
Concen: 2.10 ug/l
RT: 7.202 min Scan# 898
Delta R.T. -0.012 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

Instrument :
MSVOA_D
ClientSampled :

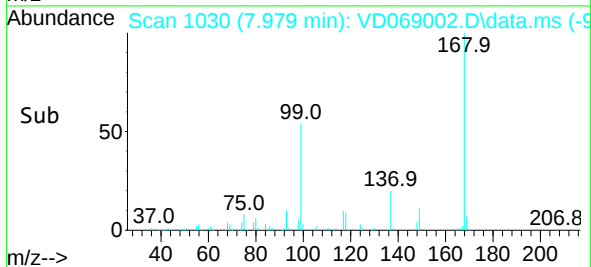
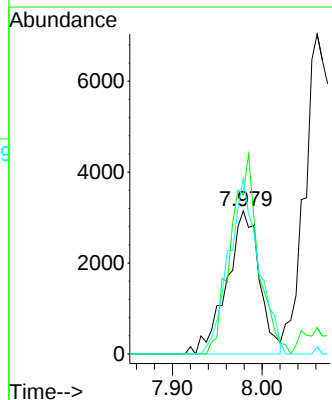
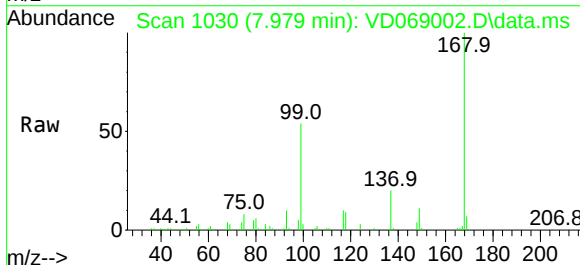


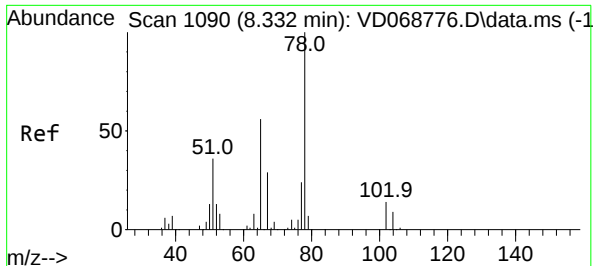
Tgt Ion: 43 Resp: 1210
Ion Ratio Lower Upper
43 100
72 28.4 28.6 43.0#



#31
Cyclohexane
Concen: 1.62 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

Tgt Ion: 56 Resp: 7922
Ion Ratio Lower Upper
56 100
69 111.5 30.0 45.0#
84 123.0 82.0 123.0

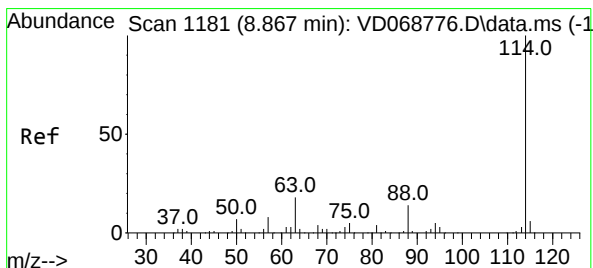
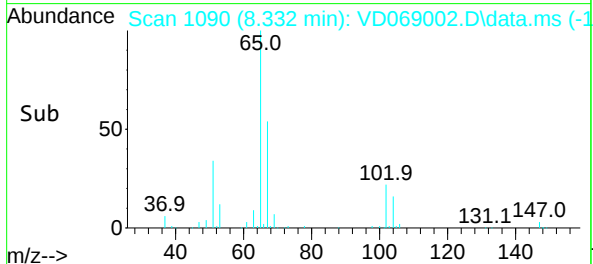
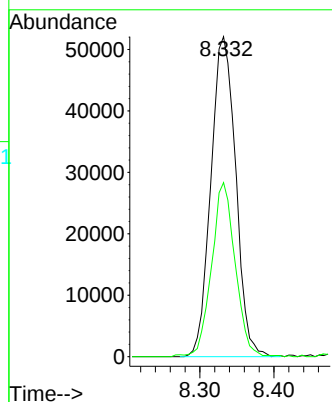
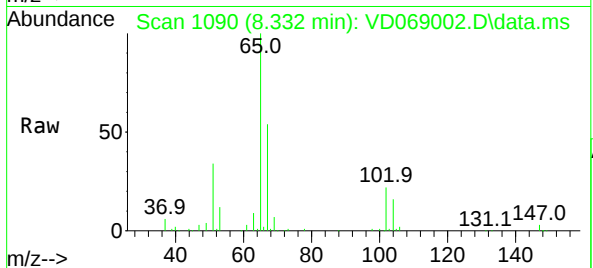




#33
1,2-Dichloroethane-d4
Concen: 41.20 ug/l
RT: 8.332 min Scan# 1090
Delta R.T. -0.000 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

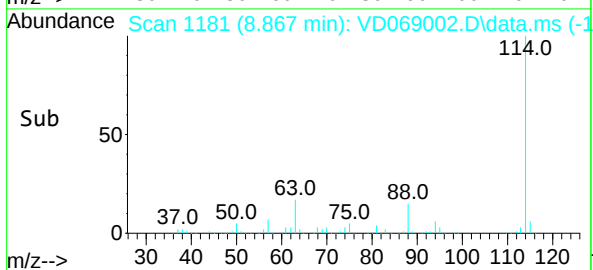
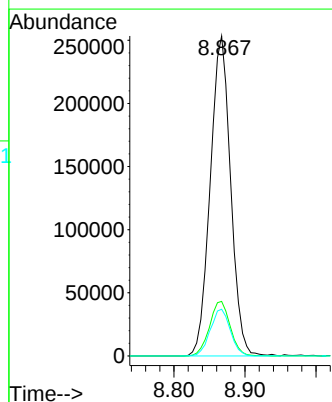
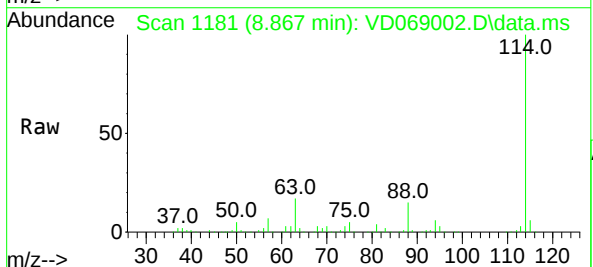
Instrument :
MSVOA_D
ClientSampled :

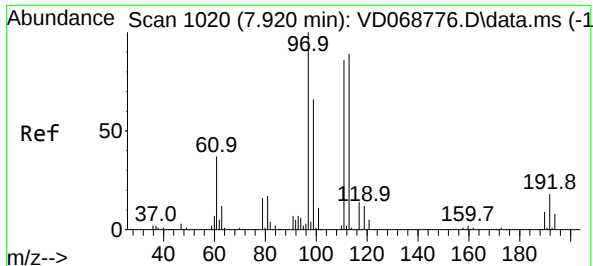
Tgt Ion: 65 Resp: 121198
Ion Ratio Lower Upper
65 100
67 51.8 0.0 106.0



#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.867 min Scan# 1181
Delta R.T. 0.000 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

Tgt Ion: 114 Resp: 504182
Ion Ratio Lower Upper
114 100
63 17.0 0.0 38.2
88 14.6 0.0 29.4





#35

Dibromofluoromethane

Concen: 46.23 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. -0.006 min

Lab File: VD069002.D

Acq: 28 Apr 2021 14:15

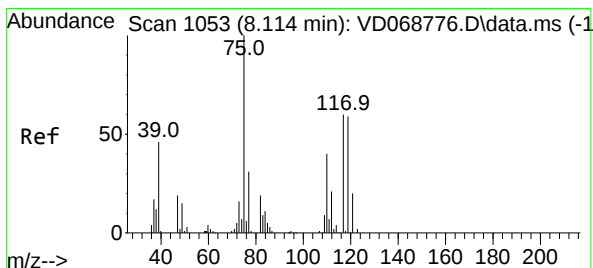
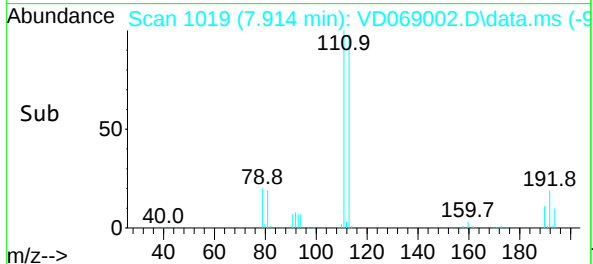
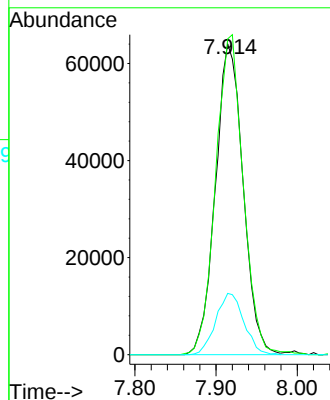
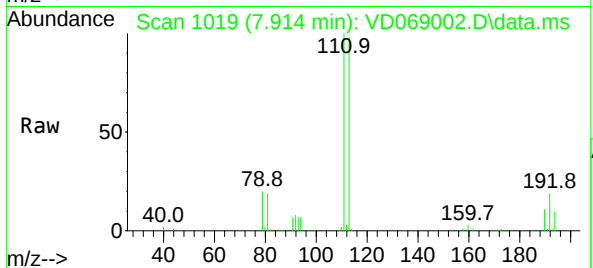
Tgt Ion:113 Resp: 151614

Ion Ratio Lower Upper

113 100

111 102.7 82.5 123.7

192 20.0 15.1 22.7



#36

1,1-Dichloropropene

Concen: 4.09 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. -0.135 min

Lab File: VD069002.D

Acq: 28 Apr 2021 14:15

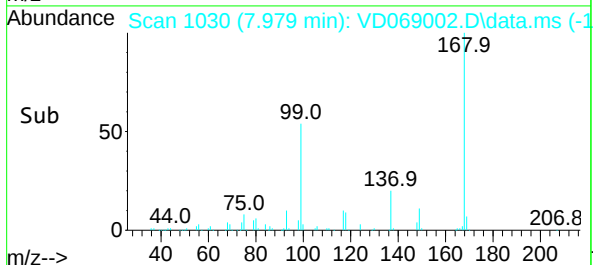
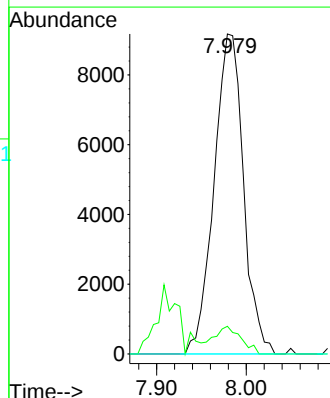
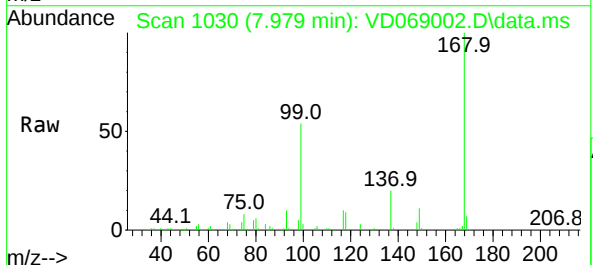
Tgt Ion: 75 Resp: 20892

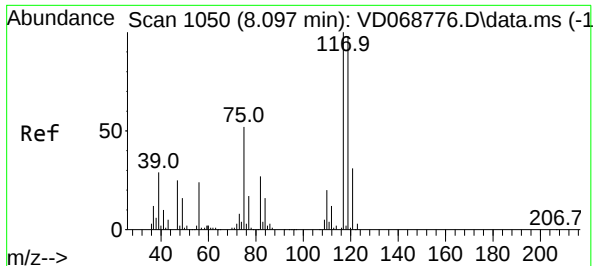
Ion Ratio Lower Upper

75 100

110 8.2 18.1 54.4#

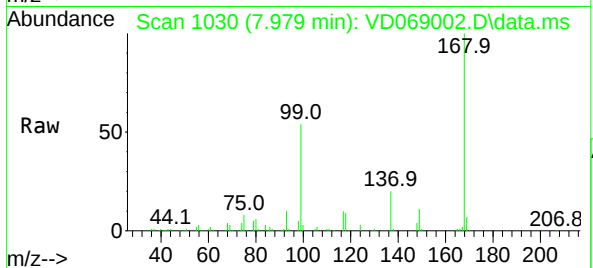
77 0.0 24.7 37.1#



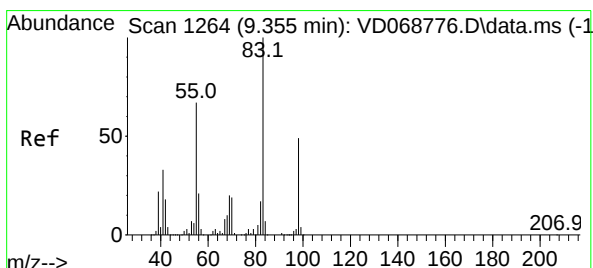
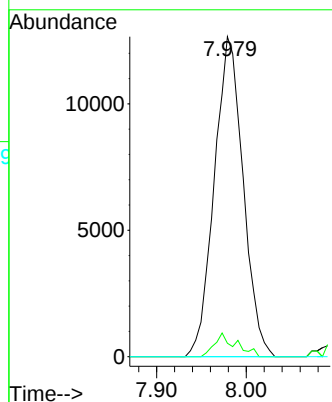
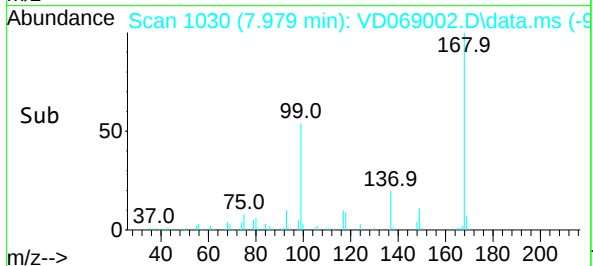


#38
Carbon Tetrachloride
Concen: 5.58 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.118 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

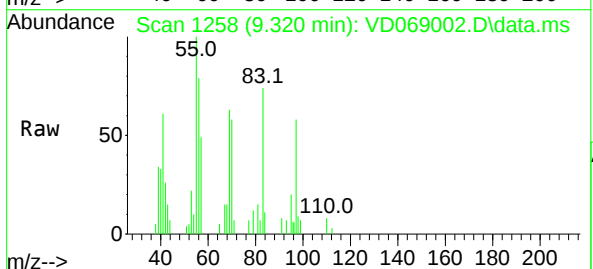
Instrument :
MSVOA_D
ClientSampled :



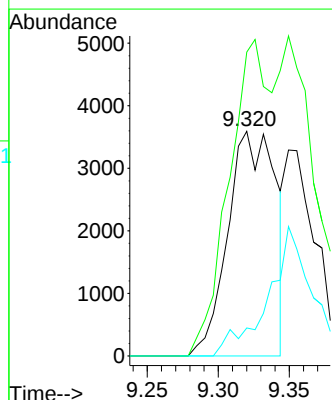
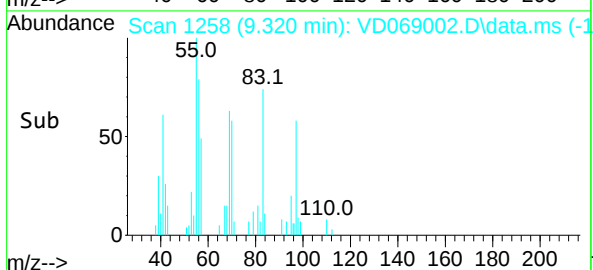
Tgt Ion:117 Resp: 28213
Ion Ratio Lower Upper
117 100
119 4.2 76.6 115.0#
121 0.0 26.1 39.1#

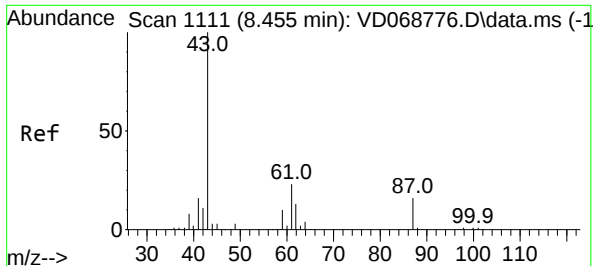


#39
Methylcyclohexane
Concen: 1.41 ug/l
RT: 9.320 min Scan# 1258
Delta R.T. -0.035 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15



Tgt Ion: 83 Resp: 8396
Ion Ratio Lower Upper
83 100
55 135.3 51.7 77.5#
98 12.5 38.8 58.2#

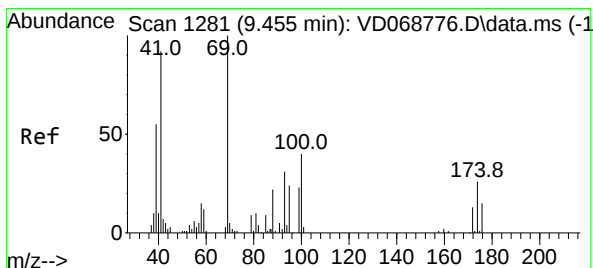
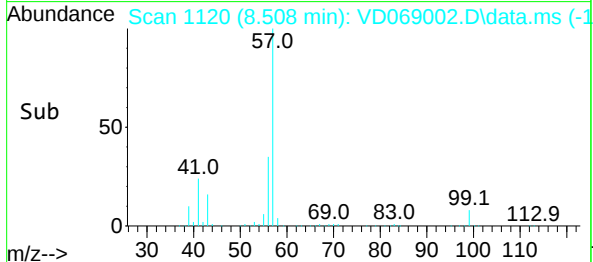
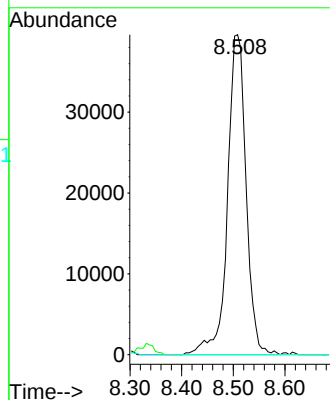
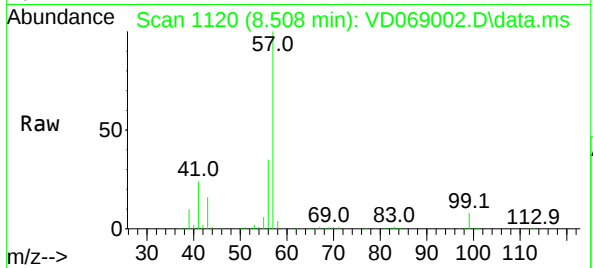




#43
Isopropyl Acetate
Concen: 32.31 ug/l
RT: 8.508 min Scan# 1120
Delta R.T. 0.053 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

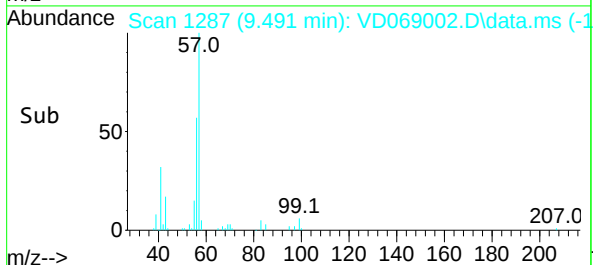
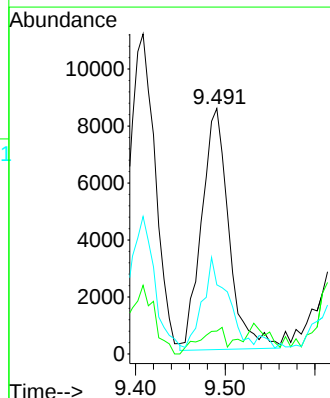
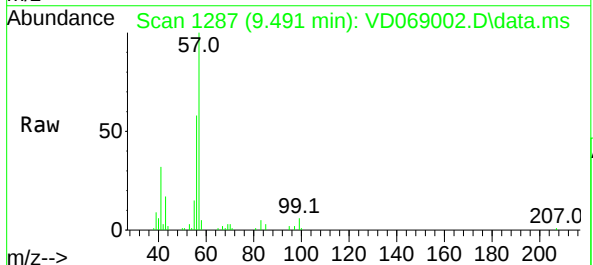
Instrument :
MSVOA_D
ClientSampled :

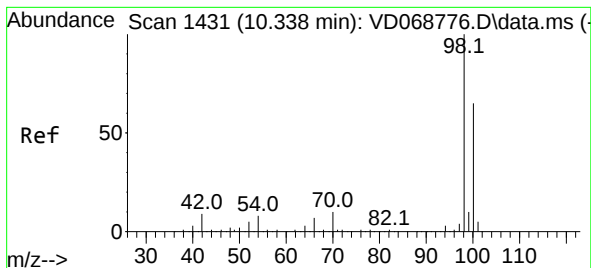
Tgt Ion: 43 Resp: 98742
Ion Ratio Lower Upper
43 100
61 0.0 29.5 44.3#
87 0.0 13.5 20.3#



#48
Methyl methacrylate
Concen: 11.88 ug/l
RT: 9.491 min Scan# 1287
Delta R.T. 0.036 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

Tgt Ion: 41 Resp: 17897
Ion Ratio Lower Upper
41 100
69 10.8 83.0 124.6#
39 35.6 47.0 70.6#

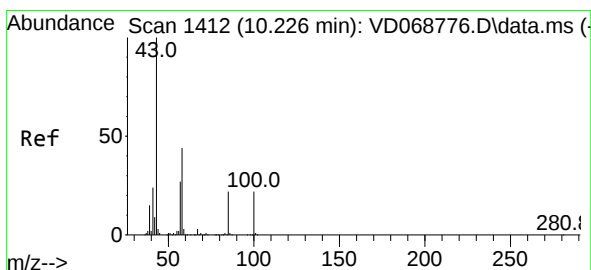
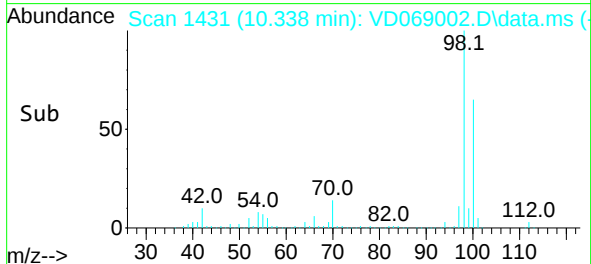
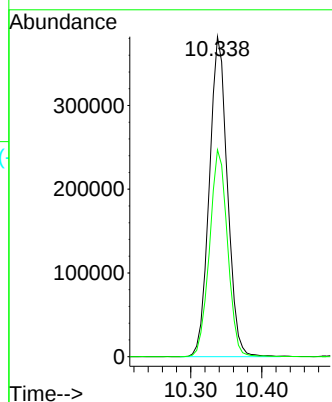
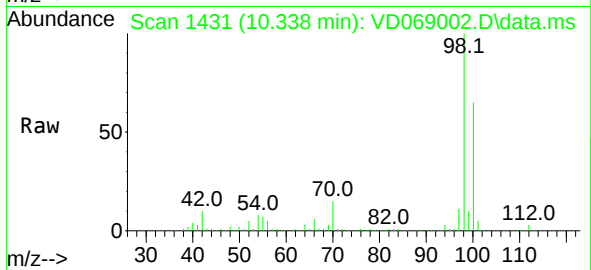




#50
Toluene-d8
Concen: 54.56 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

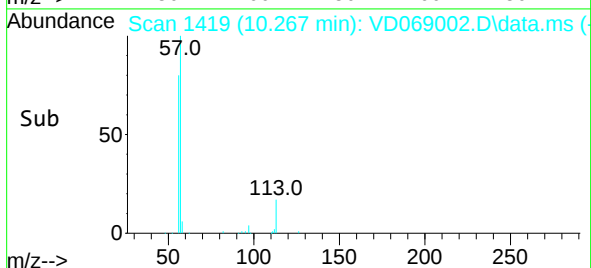
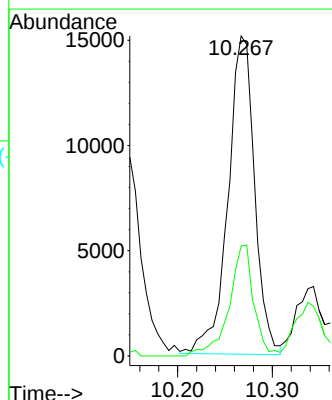
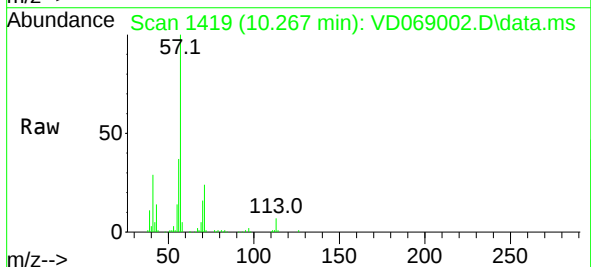
Instrument :
MSVOA_D
ClientSampleId :

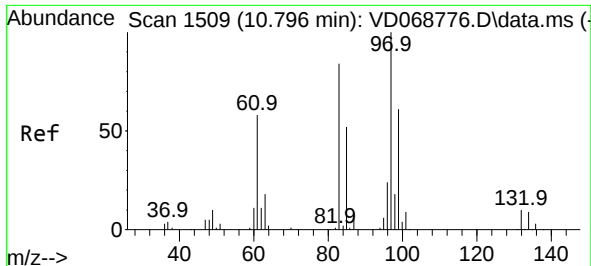
Tgt Ion: 98 Resp: 674938
Ion Ratio Lower Upper
98 100
100 64.5 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 19.21 ug/l
RT: 10.267 min Scan# 1419
Delta R.T. 0.041 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

Tgt Ion: 43 Resp: 29580
Ion Ratio Lower Upper
43 100
58 32.3 37.3 55.9#

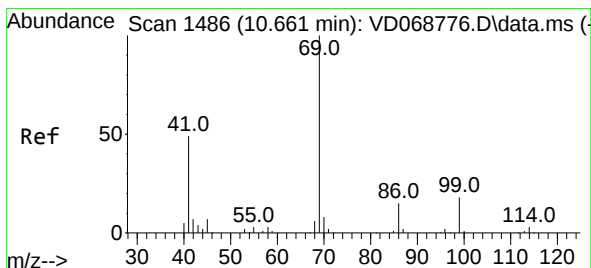
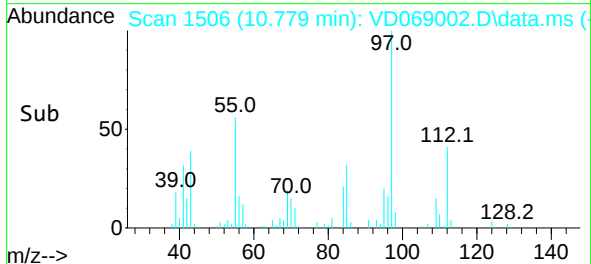
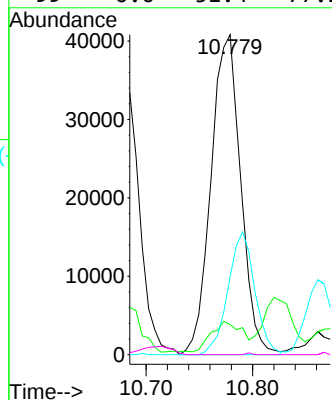
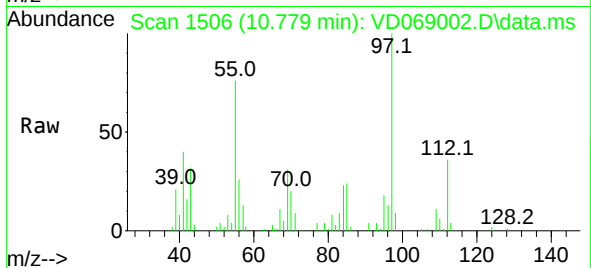




#55
1,1,2-Trichloroethane
Concen: 28.16 ug/l
RT: 10.779 min Scan# 1506
Delta R.T. -0.017 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

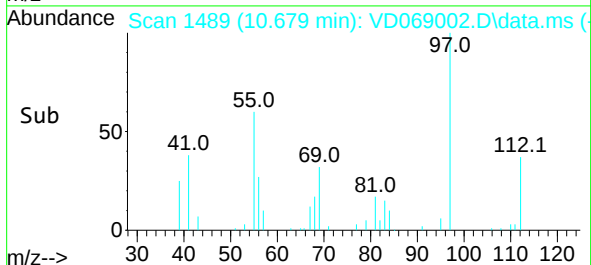
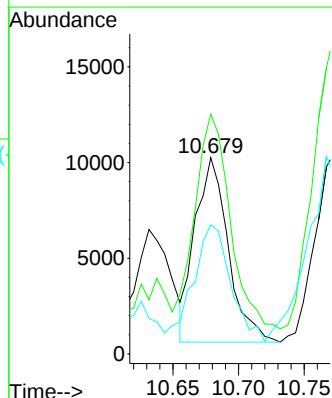
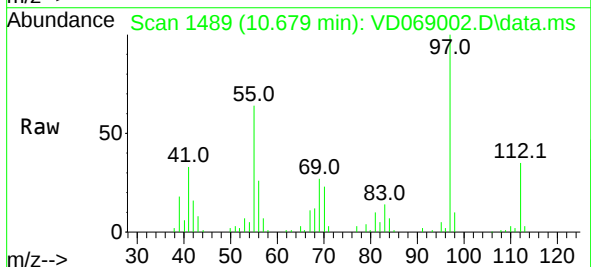
Instrument :
MSVOA_D
ClientSampleId :

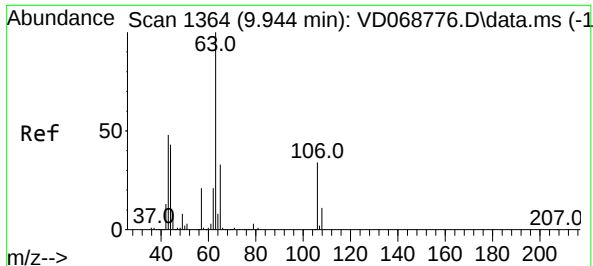
Tgt Ion:	97	Resp:	79105
Ion	Ratio	Lower	Upper
97	100		
83	8.5	65.7	98.5#
85	24.5	44.3	66.5#
99	0.0	51.4	77.2#



#56
Ethyl methacrylate
Concen: 5.88 ug/l
RT: 10.679 min Scan# 1489
Delta R.T. 0.018 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

Tgt Ion:	69	Resp:	17017
Ion	Ratio	Lower	Upper
69	100		
41	141.3	42.2	63.4#
39	78.2	24.2	36.2#

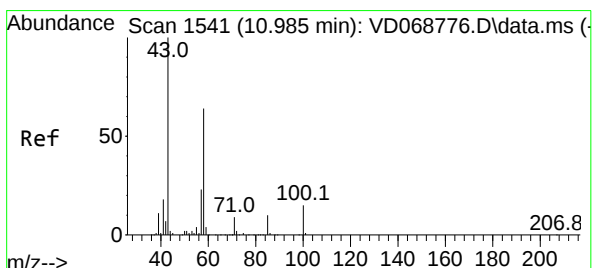
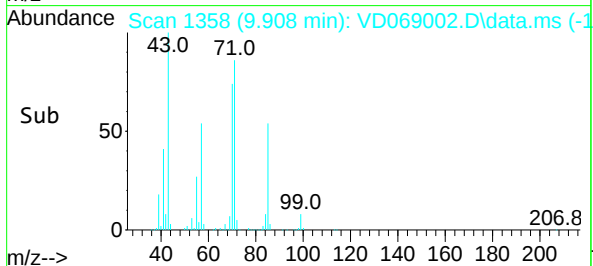
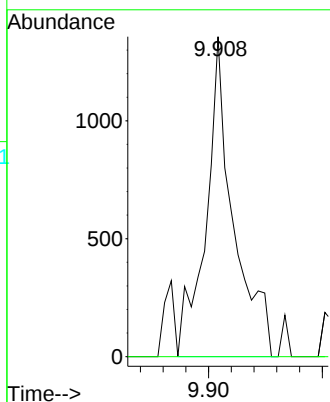
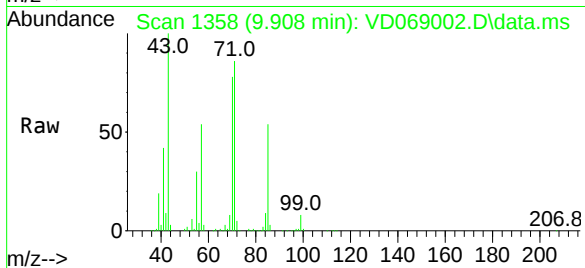




#58
2-Chloroethyl Vinyl ether
Concen: 18.36 ug/l
RT: 9.908 min Scan# 1358
Delta R.T. -0.036 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

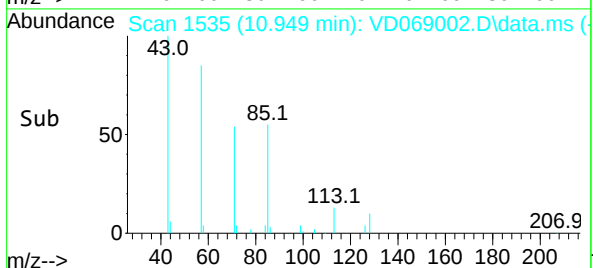
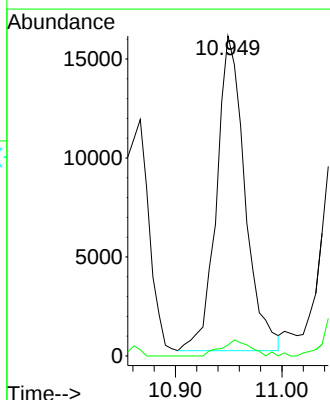
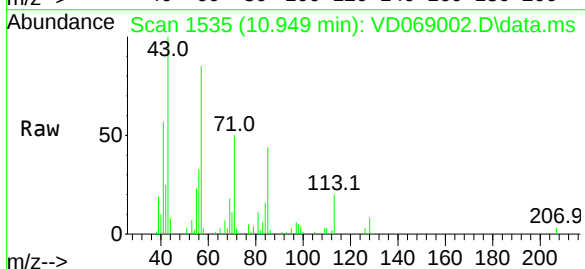
Instrument :
MSVOA_D
ClientSampled :

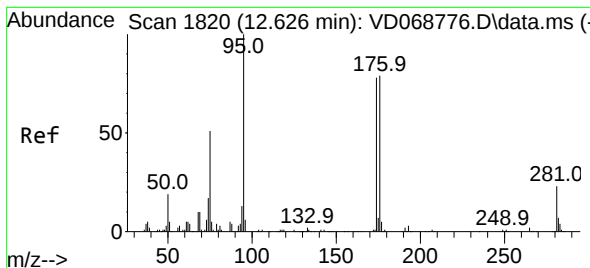
Tgt Ion: 63 Resp: 2269
Ion Ratio Lower Upper
63 100
106 0.0 24.6 36.8#



#59
2-Hexanone
Concen: 28.54 ug/l
RT: 10.949 min Scan# 1535
Delta R.T. -0.036 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

Tgt Ion: 43 Resp: 29412
Ion Ratio Lower Upper
43 100
58 5.0 31.3 93.8#

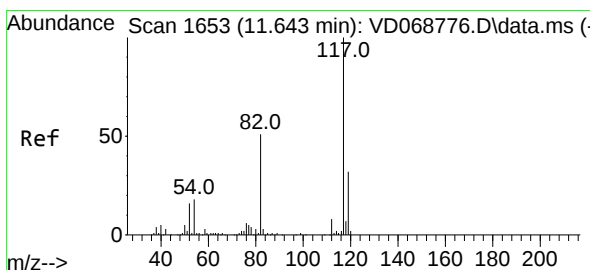
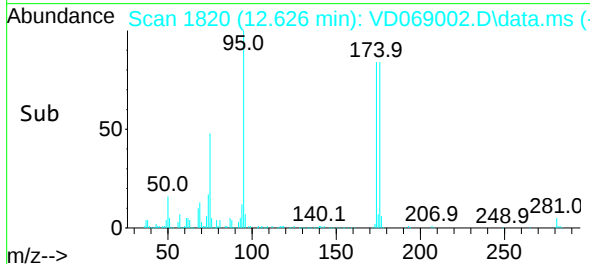
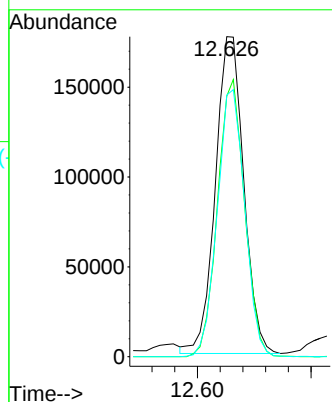
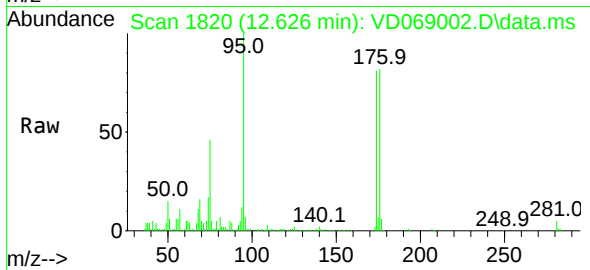




#62
4-Bromofluorobenzene
Concen: 74.41 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

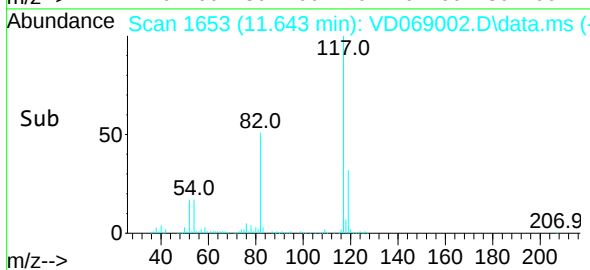
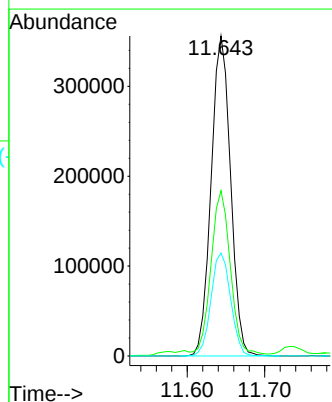
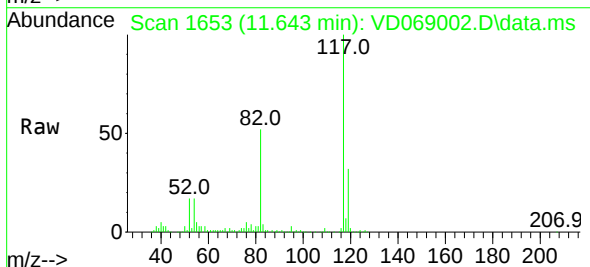
Instrument :
MSVOA_D
ClientSampleId :

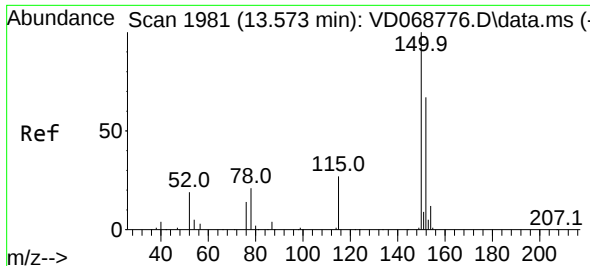
Tgt Ion: 95 Resp: 305731
Ion Ratio Lower Upper
95 100
174 83.4 0.0 168.0
176 81.6 0.0 160.2



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.643 min Scan# 1653
Delta R.T. 0.000 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

Tgt Ion:117 Resp: 620371
Ion Ratio Lower Upper
117 100
82 50.2 43.5 65.3
119 32.1 26.7 40.1

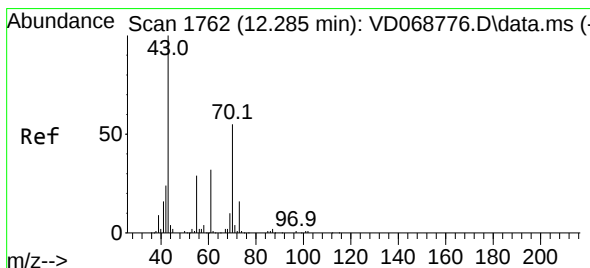
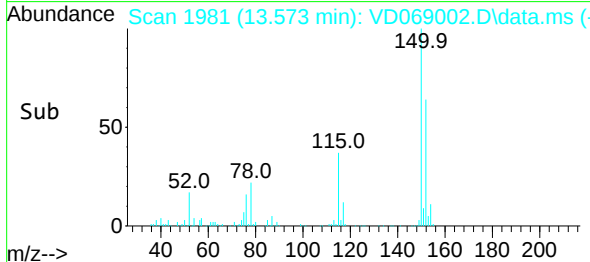
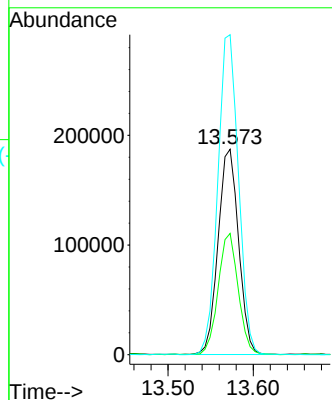
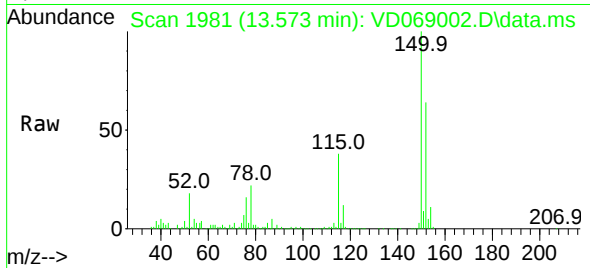




#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.573 min Scan# 1981
Delta R.T. -0.000 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

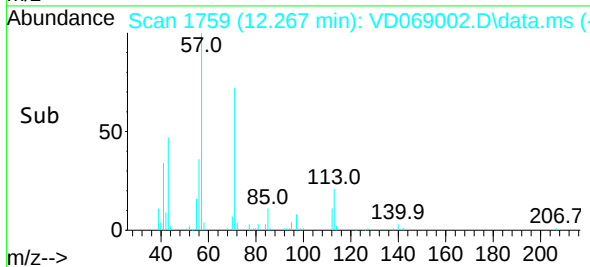
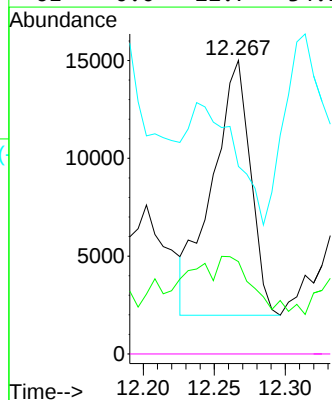
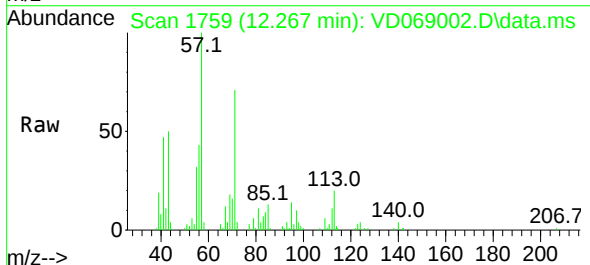
Instrument :
MSVOA_D
ClientSampleId :

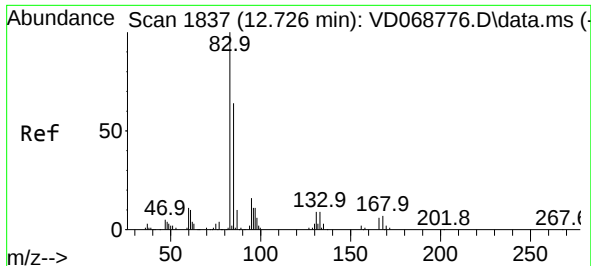
Tgt Ion:152 Resp: 313021
Ion Ratio Lower Upper
152 100
115 58.0 29.3 87.8
150 156.9 0.0 347.6



#74
N-ethyl acetate
Concen: 6.33 ug/l
RT: 12.267 min Scan# 1759
Delta R.T. -0.018 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

Tgt Ion: 43 Resp: 24540
Ion Ratio Lower Upper
43 100
70 33.4 41.9 62.9#
55 0.0 22.8 34.2#
61 0.0 22.7 34.1#

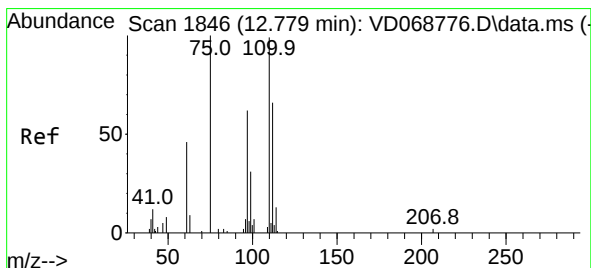
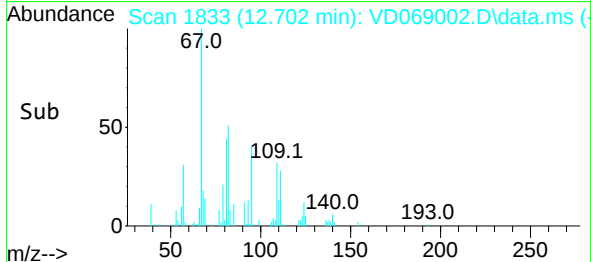
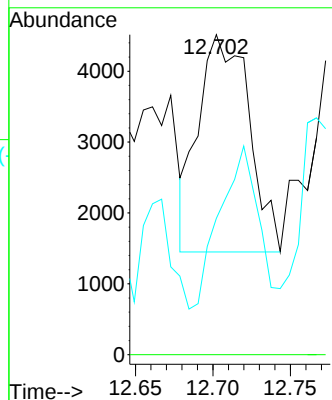
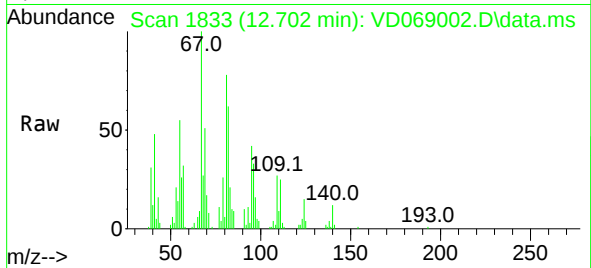




#75
1,1,2,2-Tetrachloroethane
Concen: 1.63 ug/l
RT: 12.702 min Scan# 1833
Delta R.T. -0.024 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

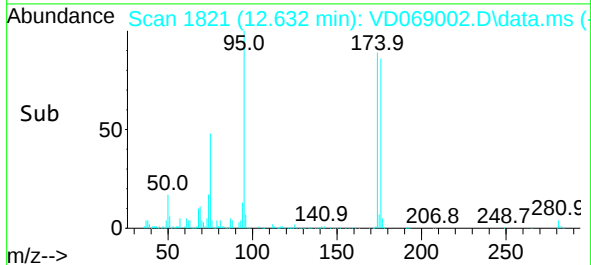
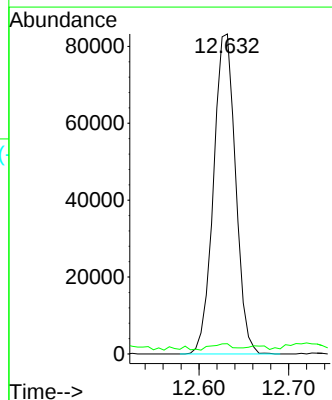
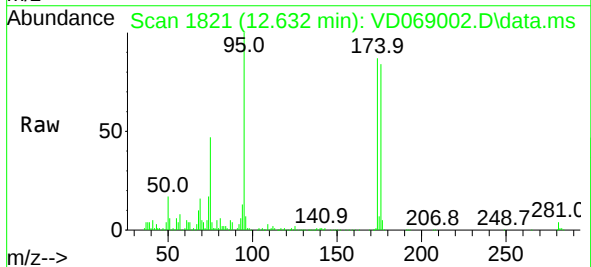
Instrument :
MSVOA_D
ClientSampleId :

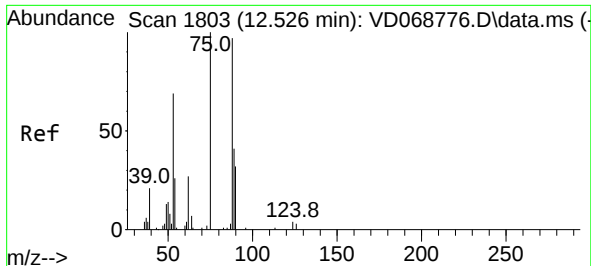
Tgt Ion: 83 Resp: 6977
Ion Ratio Lower Upper
83 100
131 0.0 5.1 15.3#
85 57.4 32.0 96.0



#76
1,2,3-Trichloropropane
Concen: 49.67 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. -0.147 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

Tgt Ion: 75 Resp: 142047
Ion Ratio Lower Upper
75 100
77 1.9 0.0 0.0#

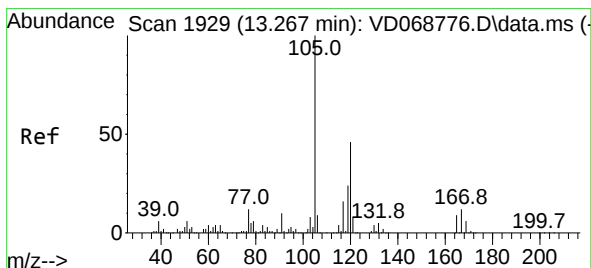
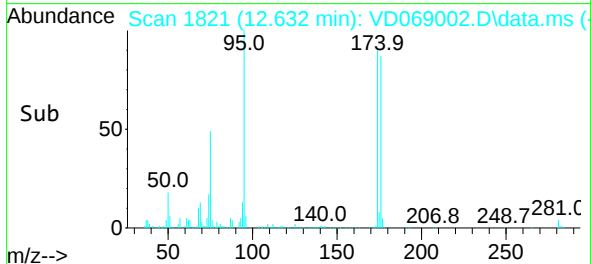
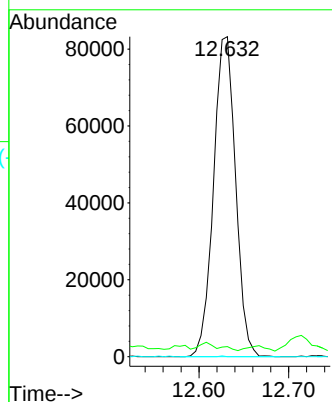
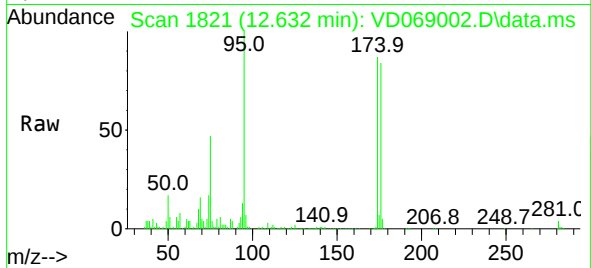




#81
trans-1,4-Dichloro-2-butene
Concen: 115.28 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. 0.106 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

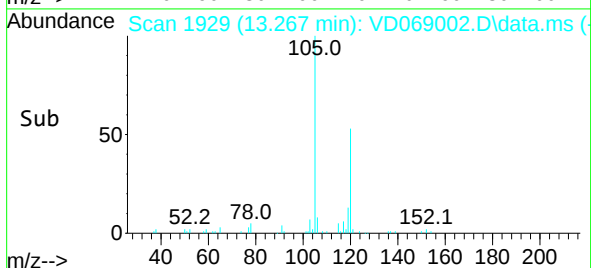
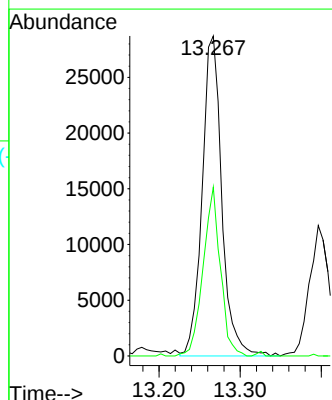
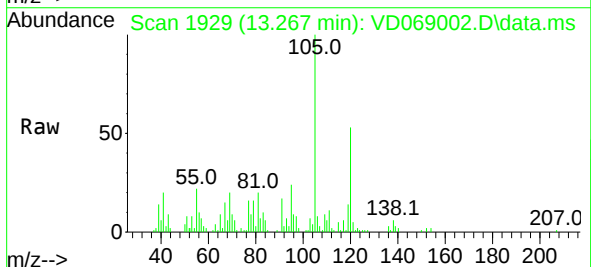
Instrument :
MSVOA_D
ClientSampled :

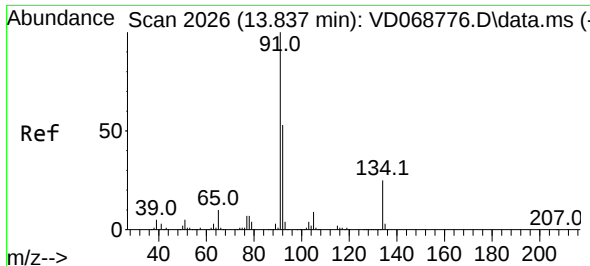
Tgt Ion: 75 Resp: 142047
Ion Ratio Lower Upper
75 100
53 0.0 66.8 100.2#
89 0.1 36.6 54.8#



#84
1,2,4-Trimethylbenzene
Concen: 2.50 ug/l
RT: 13.267 min Scan# 1929
Delta R.T. -0.000 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

Tgt Ion:105 Resp: 48327
Ion Ratio Lower Upper
105 100
120 46.2 22.6 67.7

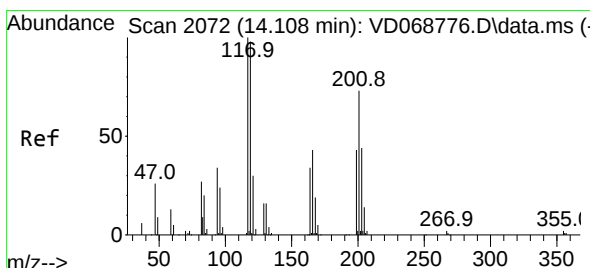
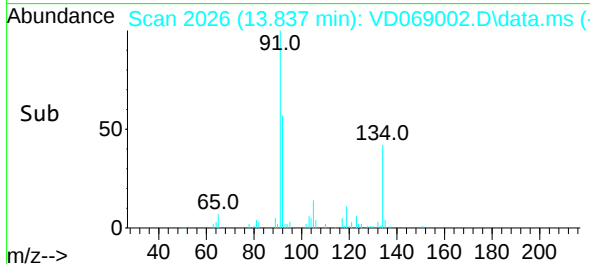
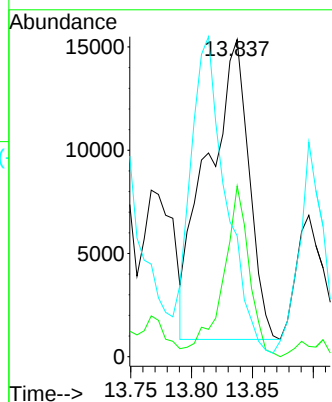
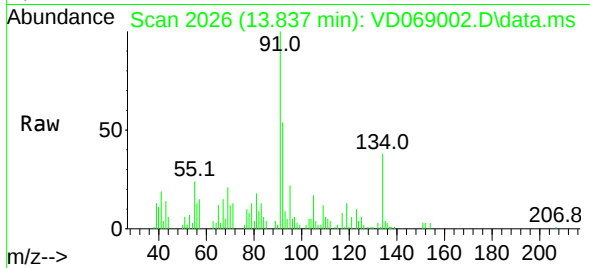




#89
n-Butylbenzene
Concen: 1.76 ug/l
RT: 13.837 min Scan# 2026
Delta R.T. 0.000 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

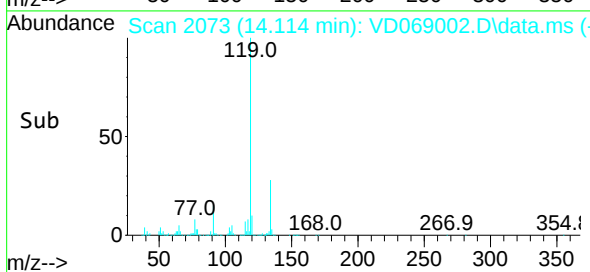
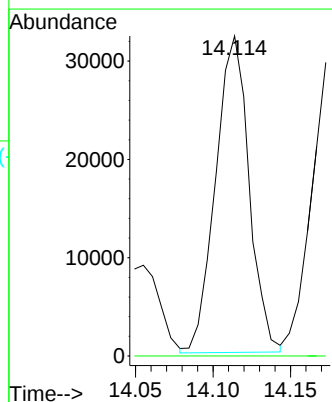
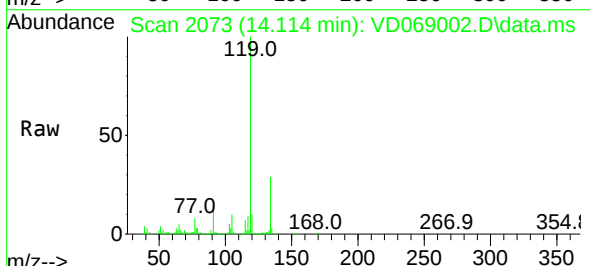
Instrument :
MSVOA_D
ClientSampled :

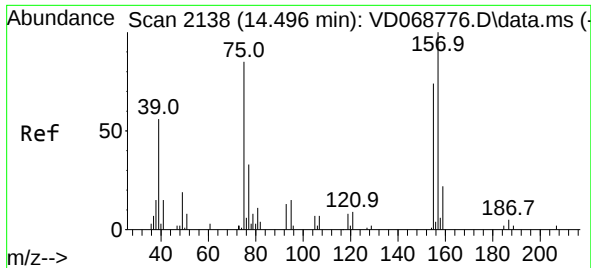
Tgt Ion: 91 Resp: 34639
Ion Ratio Lower Upper
91 100
92 35.9 26.7 80.1
134 0.0 12.9 38.6#



#90
Hexachloroethane
Concen: 11.61 ug/l
RT: 14.114 min Scan# 2073
Delta R.T. 0.006 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

Tgt Ion: 117 Resp: 48338
Ion Ratio Lower Upper
117 100
201 0.0 35.4 106.2#

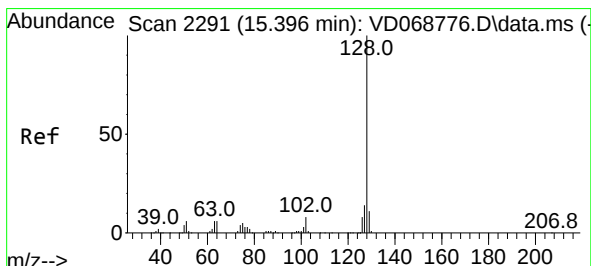
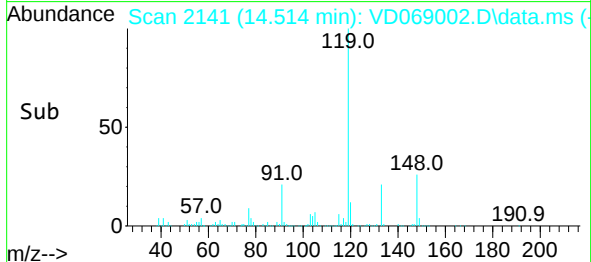
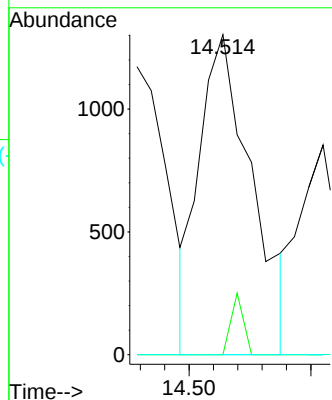
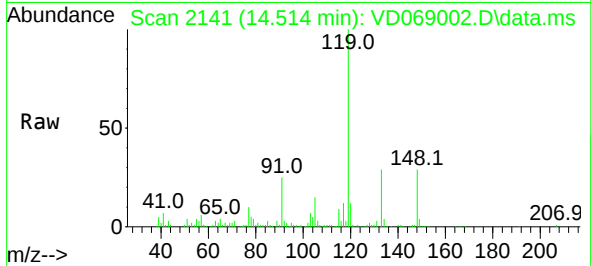




#92
1,2-Dibromo-3-Chloropropane
Concen: 3.00 ug/l
RT: 14.514 min Scan# 2141
Delta R.T. 0.018 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

Instrument :
MSVOA_D
ClientSampled :

Tgt Ion: 75 Resp: 1947
Ion Ratio Lower Upper
75 100
155 4.6 46.8 140.3#
157 0.0 59.8 179.3#



#95
Naphthalene
Concen: 2.87 ug/l
RT: 15.390 min Scan# 2290
Delta R.T. -0.006 min
Lab File: VD069002.D
Acq: 28 Apr 2021 14:15

Tgt Ion: 128 Resp: 29122
Ion Ratio Lower Upper
128 100
127 13.0 10.2 15.4
129 6.9 8.9 13.3#

