

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD010621\
 Data File : VD068014.D
 Acq On : 06 Jan 2021 15:28
 Operator : VA/SY
 Sample : M1020-01
 Misc : 6.96G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 356

Quant Time: Jan 07 00:10:34 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D122220S.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 23 07:34:16 2020
 Response via : Initial Calibration

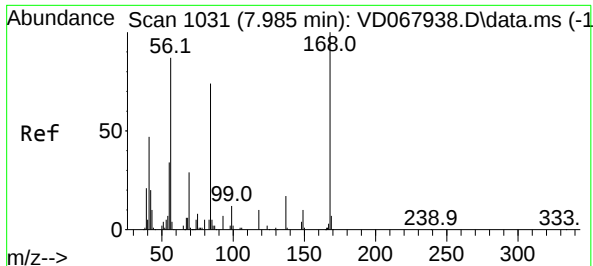
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.985	168	341568	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.867	114	681704	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.650	117	617142	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.579	152	258100	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	220424	59.76	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 119.52%			
35) Dibromofluoromethane	7.914	113	216110	50.31	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.62%			
50) Toluene-d8	10.344	98	844308	52.30	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 104.60%			
62) 4-Bromofluorobenzene	12.632	95	277648	50.27	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 100.54%			
Target Compounds					Qvalue	
5) Bromomethane	2.797	94	992	Below Cal	#	74
10) Methyl Iodide	4.303	142	280	3.92 ug/l	#	41
11) Tert butyl alcohol	5.226	59	73	Below Cal	#	74
16) Acetone	4.162	43	138533	196.72 ug/l		95
20) Methylene Chloride	4.968	84	4944	Below Cal	#	70
31) Cyclohexane	7.967	56	45162	5.99 ug/l	#	70
38) Carbon Tetrachloride	7.979	117	35267	5.10 ug/l	#	15
39) Methylcyclohexane	9.361	83	39930	4.81 ug/l		93
43) Isopropyl Acetate	8.450	43	17132	3.18 ug/l	#	51
48) Methyl methacrylate	9.491	41	3330	1.20 ug/l	#	42
49) 1,4-Dioxane	9.579	88	88	3.10 ug/l	#	24
51) 4-Methyl-2-Pentanone	10.267	43	4261	1.53 ug/l	#	80
52) Toluene	10.408	92	792505	61.08 ug/l		100
53) t-1,3-Dichloropropene	10.403	75	8932	1.41 ug/l	#	1
55) 1,1,2-Trichloroethane	10.779	97	9230	2.54 ug/l	#	27
67) Ethyl Benzene	11.744	91	99791	4.20 ug/l		100
68) m/p-Xylenes	11.850	106	142063	15.70 ug/l		98
69) o-Xylene	12.185	106	32729	4.04 ug/l		88
76) 1,2,3-Trichloropropane	12.632	75	139174	64.05 ug/l	#	100
81) trans-1,4-Dichloro-2-b...	12.632	75	139174	131.28 ug/l	#	13
84) 1,2,4-Trimethylbenzene	13.267	105	21610	1.35 ug/l		99

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

Quant Time: Jan 07 00:10:34 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D122220S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 23 07:34:16 2020
Response via : Initial Calibration

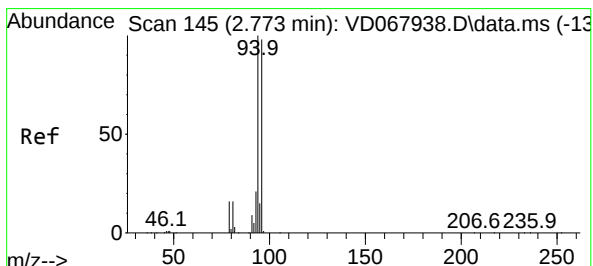
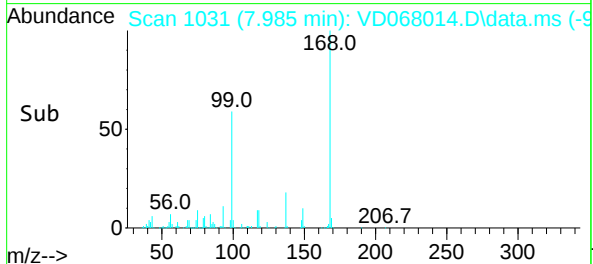
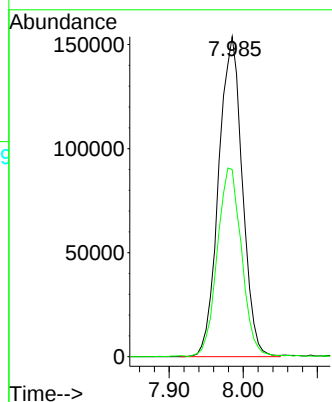
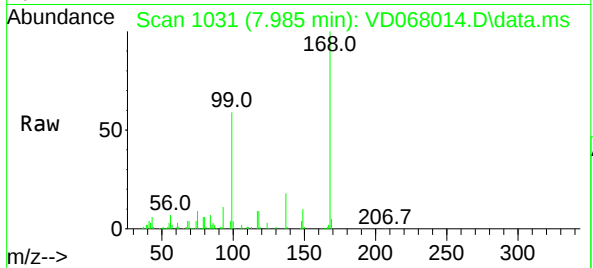




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. 0.000 min
Lab File: VD068014.D
Acq: 06 Jan 2021 15:28

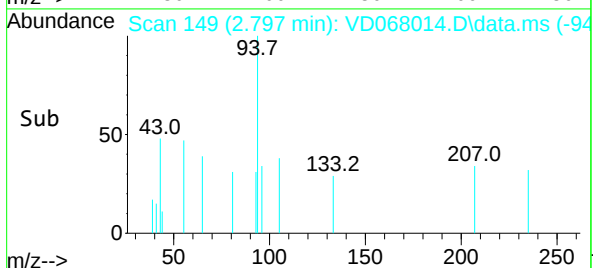
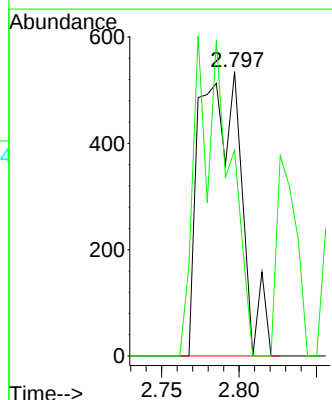
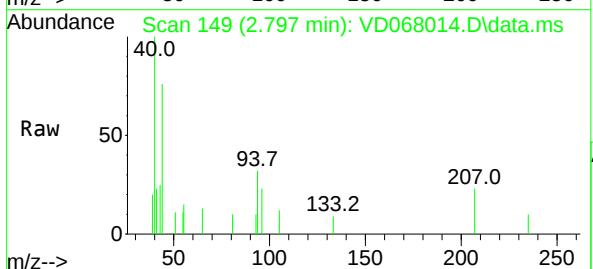
Instrument :
MSVOA_D
ClientSampled :
356

Tgt Ion:168 Resp: 341568
Ion Ratio Lower Upper
168 100
99 58.2 48.0 72.0



#5
Bromomethane
Concen: Below Cal
RT: 2.797 min Scan# 149
Delta R.T. 0.024 min
Lab File: VD068014.D
Acq: 06 Jan 2021 15:28

Tgt Ion: 94 Resp: 992
Ion Ratio Lower Upper
94 100
96 72.3 78.0 117.0#

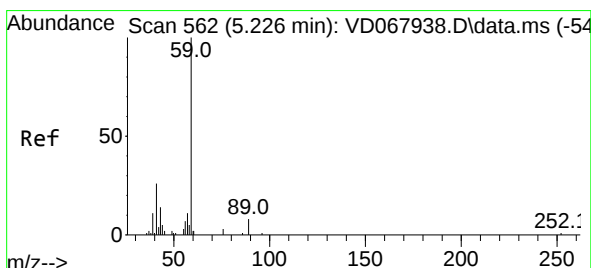
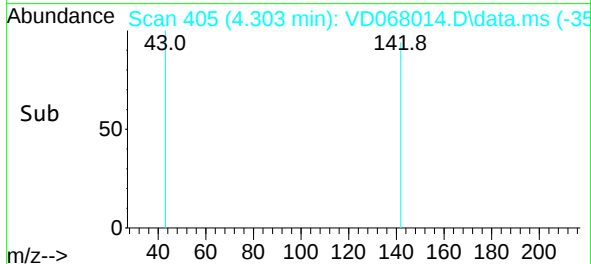
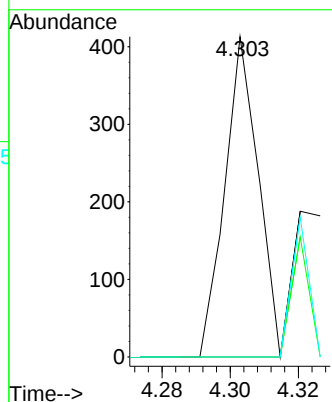
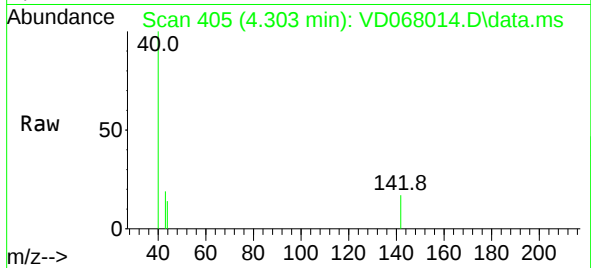




#10
Methyl Iodide
Concen: 3.92 ug/l
RT: 4.303 min Scan# 405
Delta R.T. -0.000 min
Lab File: VD068014.D
Acq: 06 Jan 2021 15:28

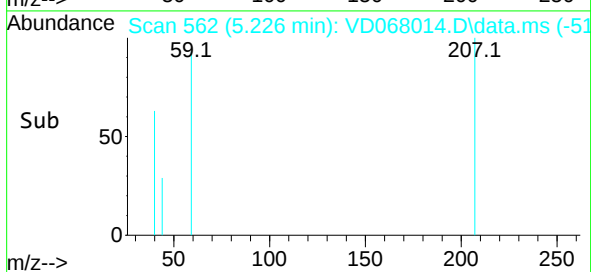
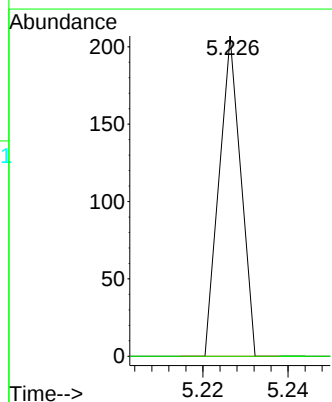
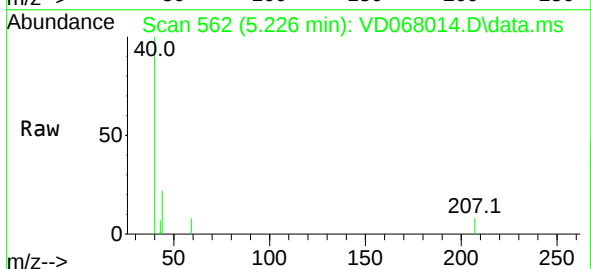
Instrument :
MSVOA_D
ClientSampled :
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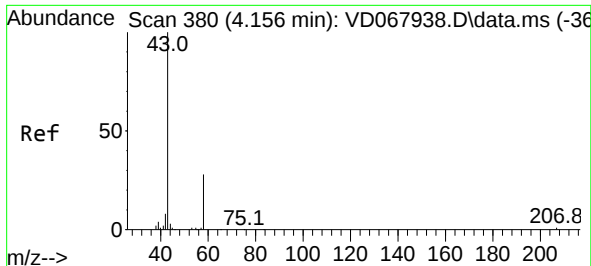
Tgt Ion:142 Resp: 280
Ion Ratio Lower Upper
142 100
127 0.0 34.4 51.6#
141 0.0 11.8 17.8#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.226 min Scan# 562
Delta R.T. 0.000 min
Lab File: VD068014.D
Acq: 06 Jan 2021 15:28

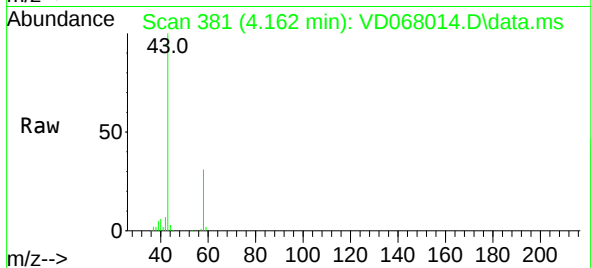
Tgt Ion: 59 Resp: 73
Ion Ratio Lower Upper
59 100
57 0.0 7.4 11.2#



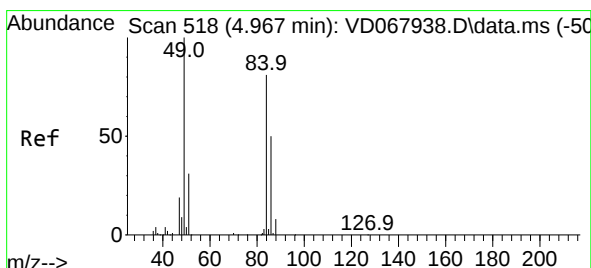
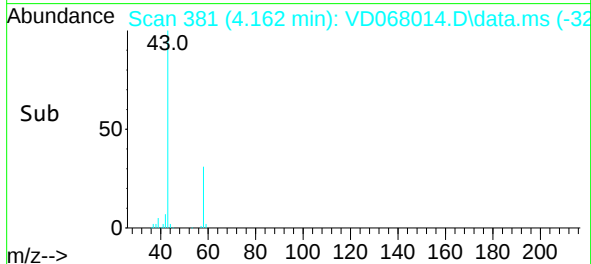
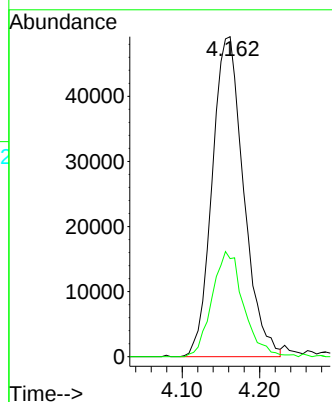


#16
Acetone
Concen: 196.72 ug/l
RT: 4.162 min Scan# 381
Delta R.T. 0.006 min
Lab File: VD068014.D
Acq: 06 Jan 2021 15:28

Instrument :
MSVOA_D
ClientSampled :
356

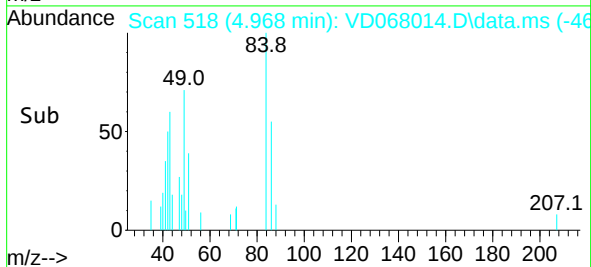
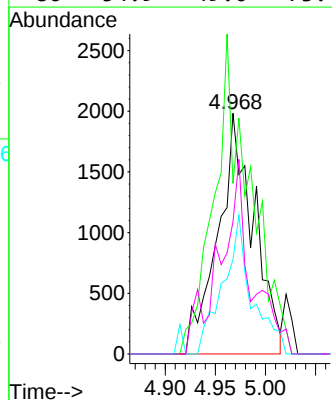
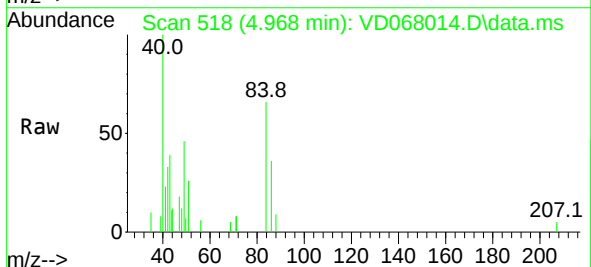


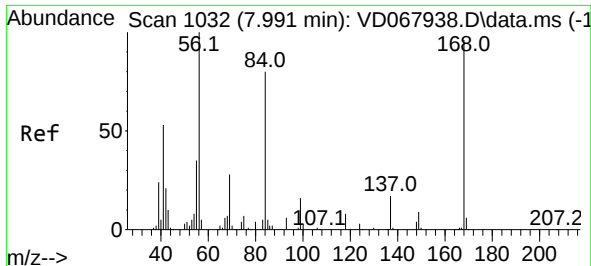
Tgt Ion: 43 Resp: 138533
Ion Ratio Lower Upper
43 100
58 30.7 22.3 33.5



#20
Methylene Chloride
Concen: Below Cal
RT: 4.968 min Scan# 518
Delta R.T. 0.001 min
Lab File: VD068014.D
Acq: 06 Jan 2021 15:28

Tgt Ion: 84 Resp: 4944
Ion Ratio Lower Upper
84 100
49 70.9 98.3 147.5#
51 29.7 30.3 45.5#
86 54.9 49.0 73.4

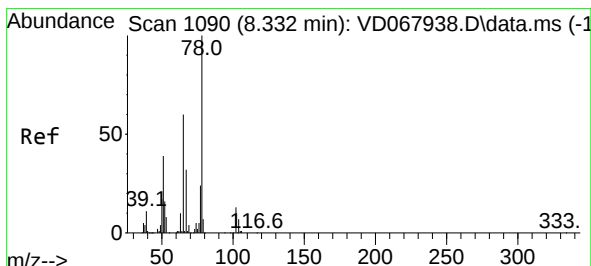
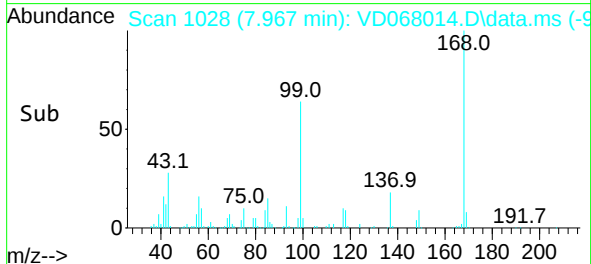
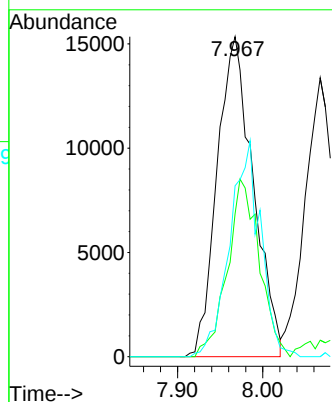
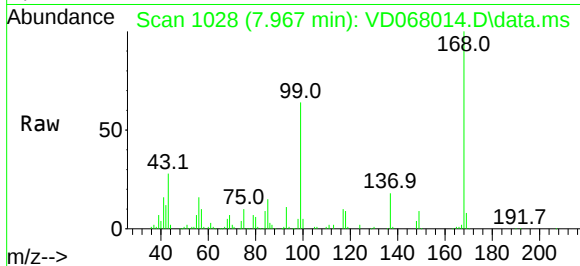




#31
Cyclohexane
Concen: 5.99 ug/l
RT: 7.967 min Scan# 1028
Delta R.T. -0.023 min
Lab File: VD068014.D
Acq: 06 Jan 2021 15:28

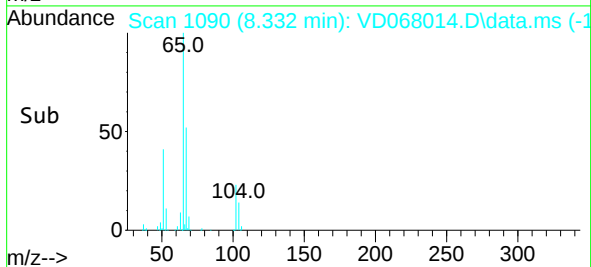
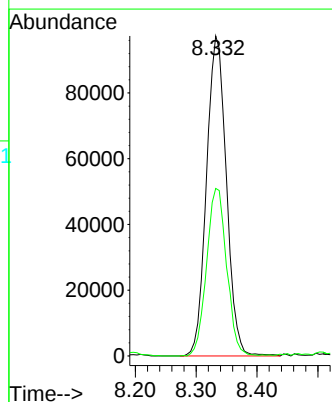
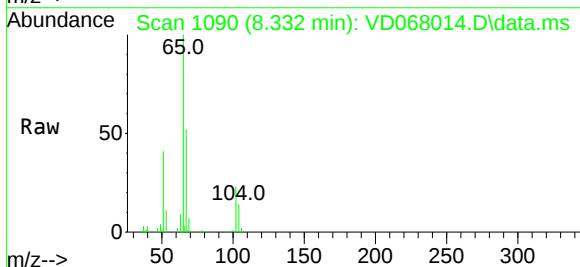
Instrument :
MSVOA_D
ClientSampleId :
356

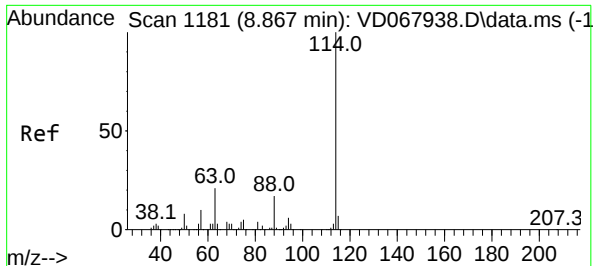
Tgt Ion: 56 Resp: 45162
Ion Ratio Lower Upper
56 100
69 44.6 22.7 34.1#
84 53.4 64.2 96.4#



#33
1,2-Dichloroethane-d4
Concen: 59.76 ug/l
RT: 8.332 min Scan# 1090
Delta R.T. 0.000 min
Lab File: VD068014.D
Acq: 06 Jan 2021 15:28

Tgt Ion: 65 Resp: 220424
Ion Ratio Lower Upper
65 100
67 53.0 0.0 110.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.867 min Scan# 1181

Delta R.T. 0.000 min

Lab File: VD068014.D

Acq: 06 Jan 2021 15:28

Instrument :

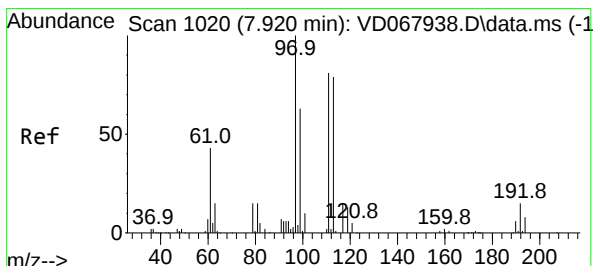
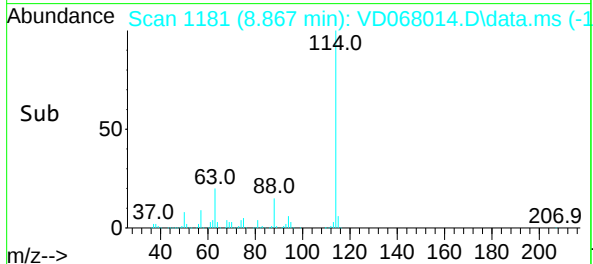
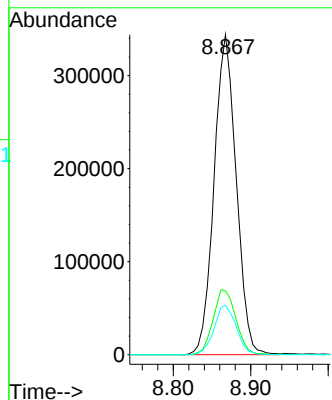
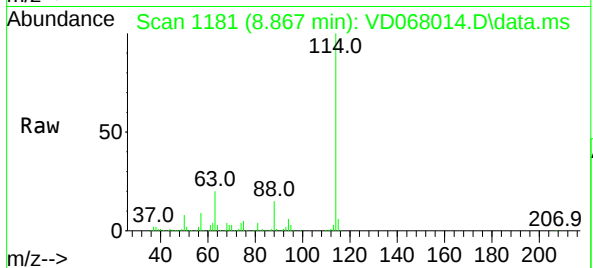
MSVOA_D

ClientSampleId :

356

Tgt Ion:114 Resp: 681704

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	41.4
88	15.4	0.0	33.2



#35

Dibromofluoromethane

Concen: 50.31 ug/l

RT: 7.914 min Scan# 1019

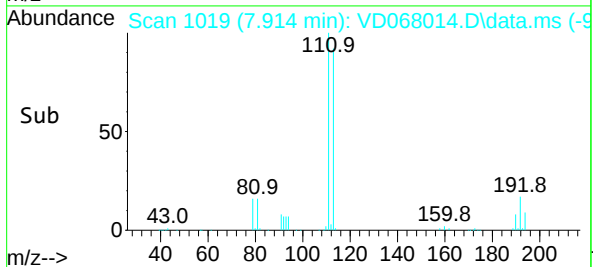
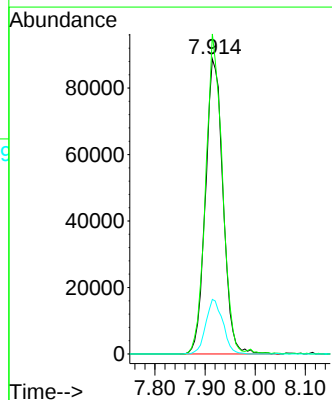
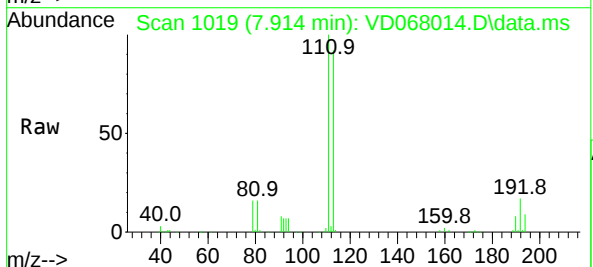
Delta R.T. -0.006 min

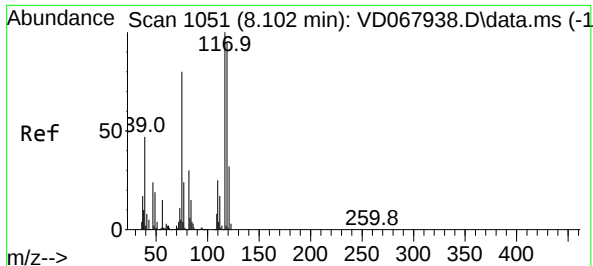
Lab File: VD068014.D

Acq: 06 Jan 2021 15:28

Tgt Ion:113 Resp: 216110

Ion	Ratio	Lower	Upper
113	100		
111	102.8	79.3	118.9
192	18.0	14.5	21.7

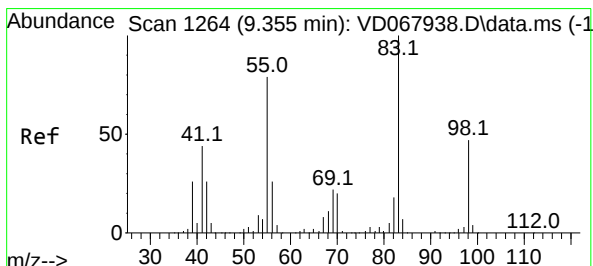
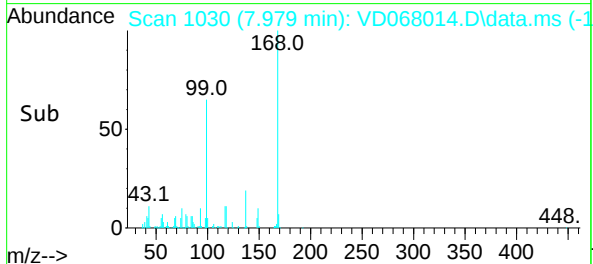
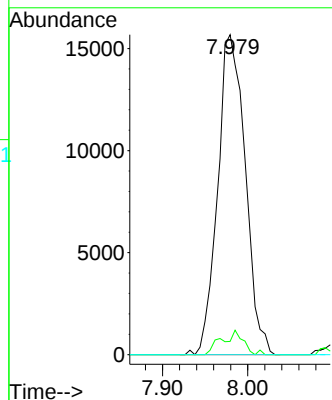
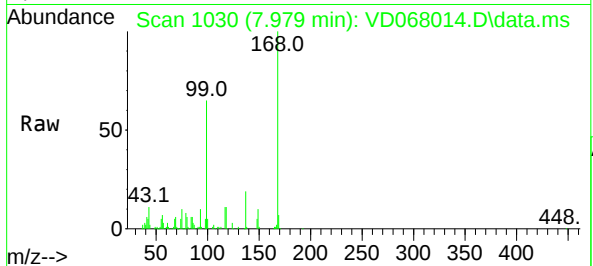




#38
Carbon Tetrachloride
Concen: 5.10 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.123 min
Lab File: VD068014.D
Acq: 06 Jan 2021 15:28

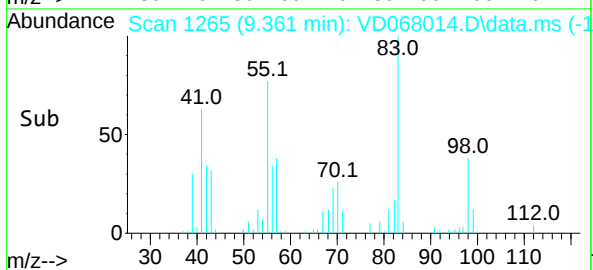
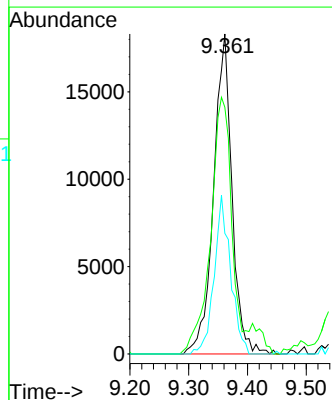
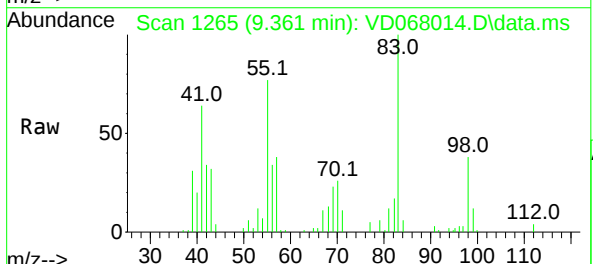
Instrument :
MSVOA_D
ClientSampleId :
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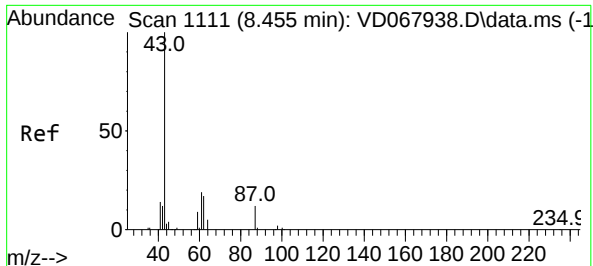
Tgt Ion:117 Resp: 35267
Ion Ratio Lower Upper
117 100
119 4.2 76.2 114.4#
121 0.0 25.9 38.9#



#39
Methylcyclohexane
Concen: 4.81 ug/l
RT: 9.361 min Scan# 1265
Delta R.T. 0.006 min
Lab File: VD068014.D
Acq: 06 Jan 2021 15:28

Tgt Ion: 83 Resp: 39930
Ion Ratio Lower Upper
83 100
55 77.1 63.5 95.3
98 37.7 37.3 55.9



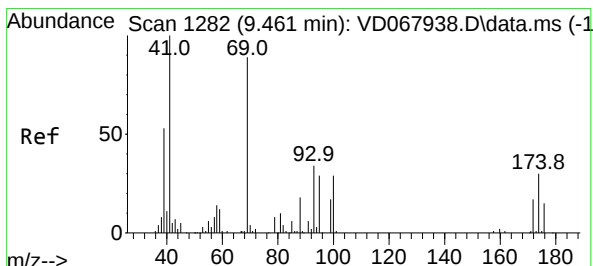
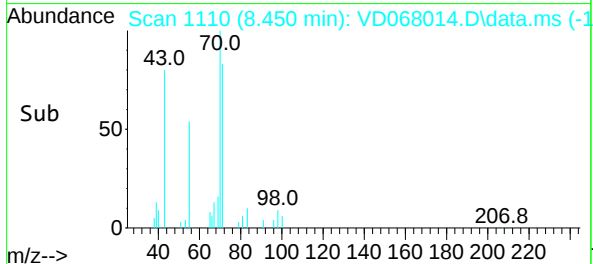
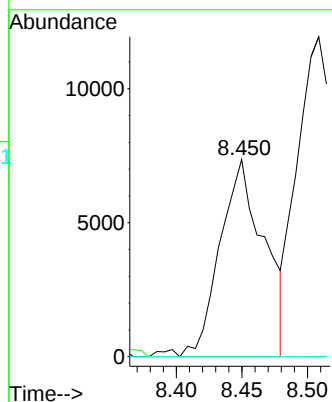
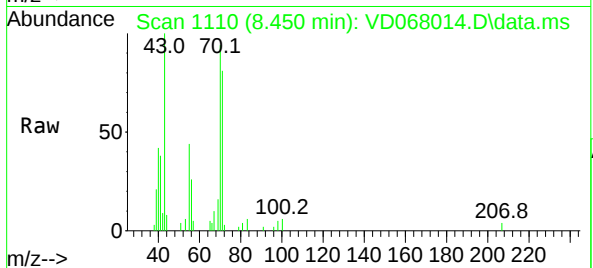


#43

Isopropyl Acetate
Concen: 3.18 ug/l
RT: 8.450 min Scan# 1110
Delta R.T. -0.006 min
Lab File: VD068014.D
Acq: 06 Jan 2021 15:28

Instrument :
MSVOA_D
ClientSampled :
356

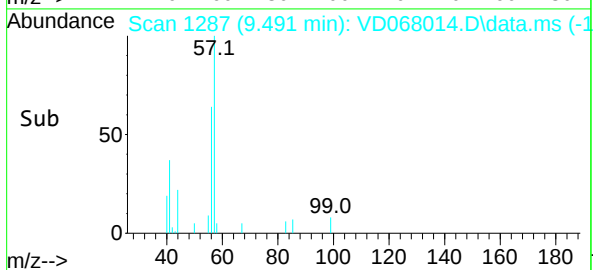
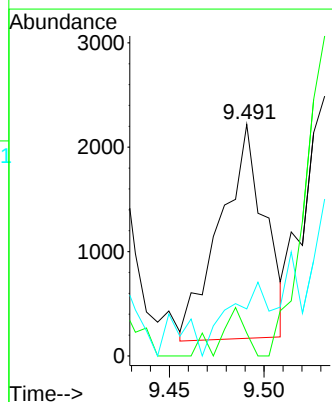
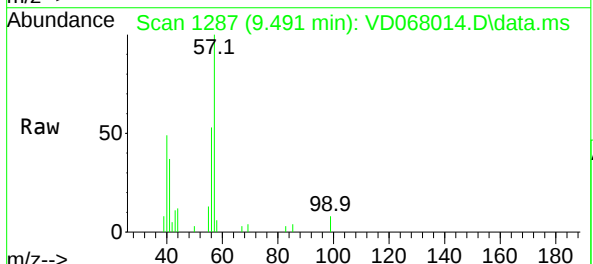
Tgt Ion: 43 Resp: 17132
Ion Ratio Lower Upper
43 100
61 0.0 24.5 36.7#
87 0.0 9.8 14.8#

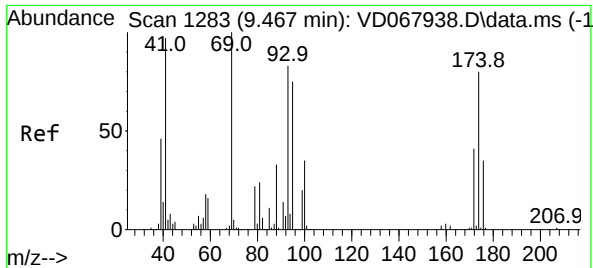


#48

Methyl methacrylate
Concen: 1.20 ug/l
RT: 9.491 min Scan# 1287
Delta R.T. 0.030 min
Lab File: VD068014.D
Acq: 06 Jan 2021 15:28

Tgt Ion: 41 Resp: 3330
Ion Ratio Lower Upper
41 100
69 12.3 63.9 95.9#
39 29.8 37.4 56.0#

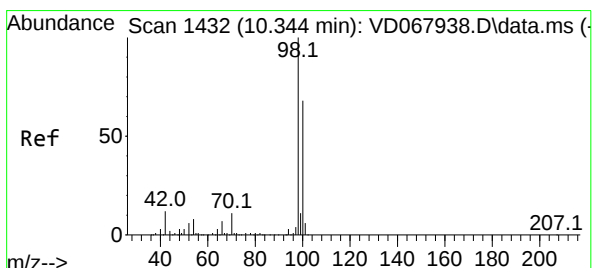
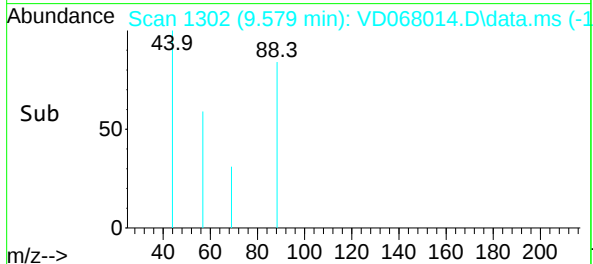
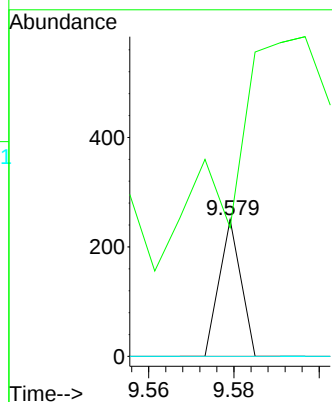
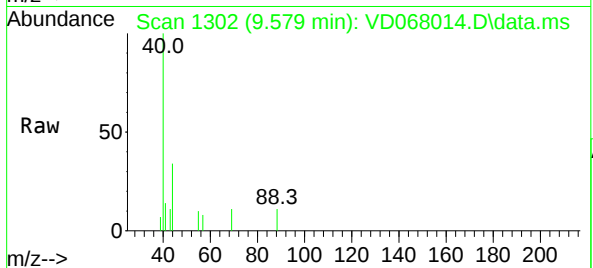




#49
1,4-Dioxane
Concen: 3.10 ug/l
RT: 9.579 min Scan# 1302
Delta R.T. 0.112 min
Lab File: VD068014.D
Acq: 06 Jan 2021 15:28

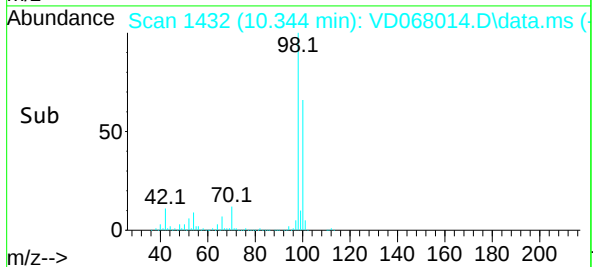
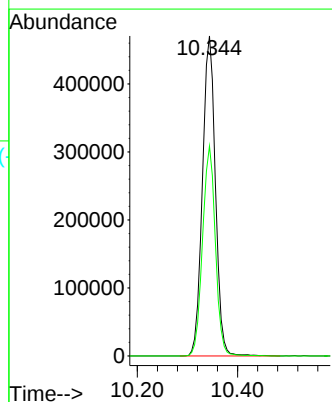
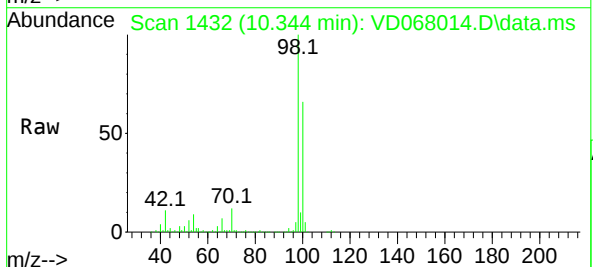
Instrument :
MSVOA_D
ClientSampled :
356

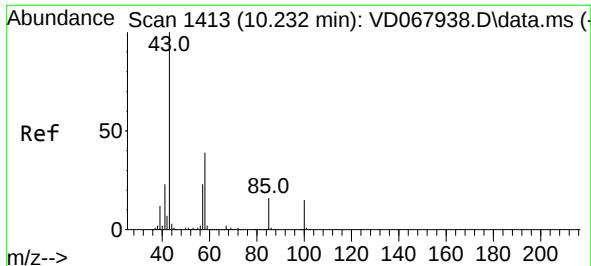
Tgt Ion: 88 Resp: 88
Ion Ratio Lower Upper
88 100
43 0.0 27.3 40.9#
58 0.0 54.8 82.2#



#50
Toluene-d8
Concen: 52.30 ug/l
RT: 10.344 min Scan# 1432
Delta R.T. 0.000 min
Lab File: VD068014.D
Acq: 06 Jan 2021 15:28

Tgt Ion: 98 Resp: 844308
Ion Ratio Lower Upper
98 100
100 65.2 52.5 78.7

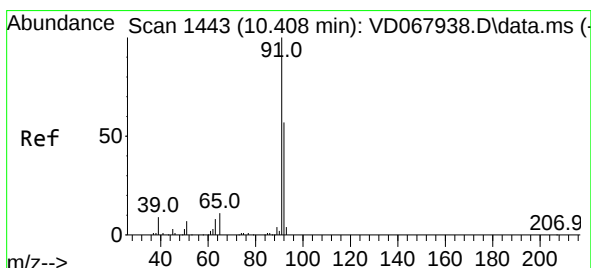
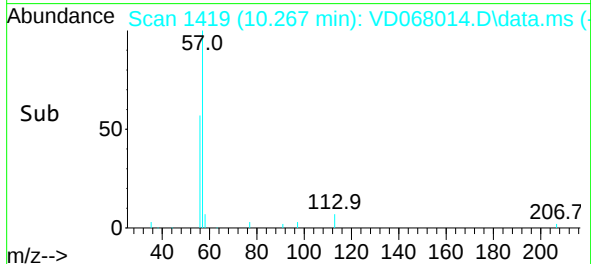
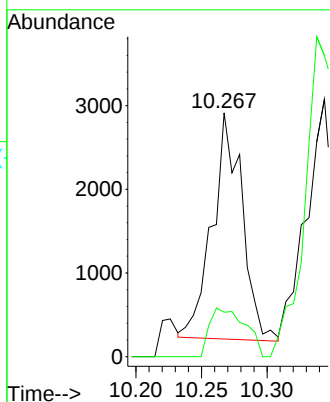
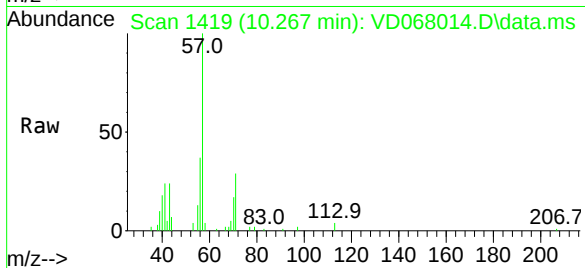




#51
4-Methyl-2-Pentanone
Concen: 1.53 ug/l
RT: 10.267 min Scan# 1419
Delta R.T. 0.036 min
Lab File: VD068014.D
Acq: 06 Jan 2021 15:28

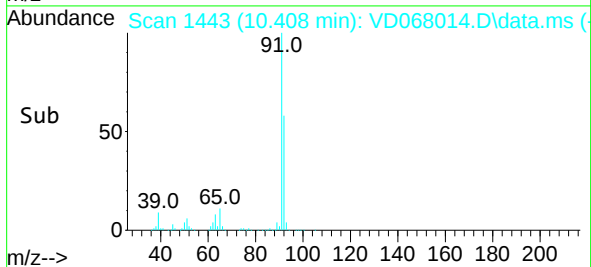
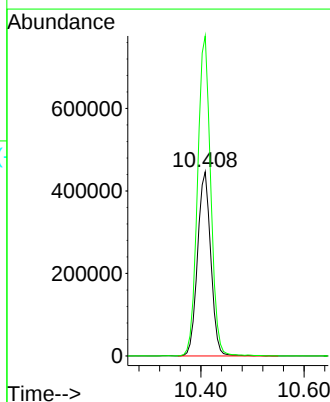
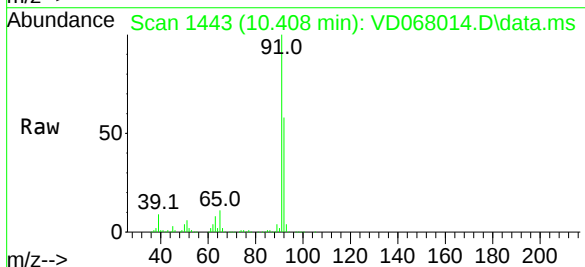
Instrument :
MSVOA_D
ClientSampled :
356

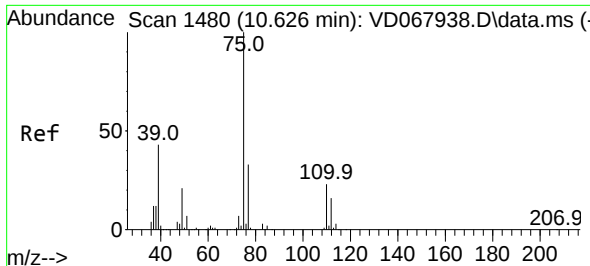
Tgt Ion: 43 Resp: 4261
Ion Ratio Lower Upper
43 100
58 25.7 30.0 45.0#



#52
Toluene
Concen: 61.08 ug/l
RT: 10.408 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VD068014.D
Acq: 06 Jan 2021 15:28

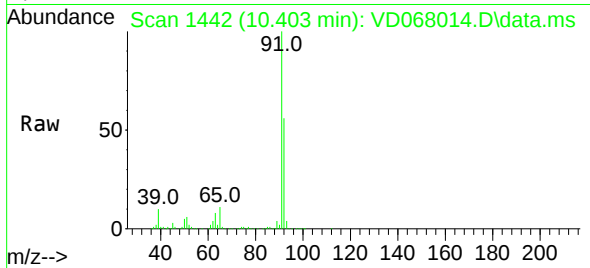
Tgt Ion: 92 Resp: 792505
Ion Ratio Lower Upper
92 100
91 172.6 138.5 207.7



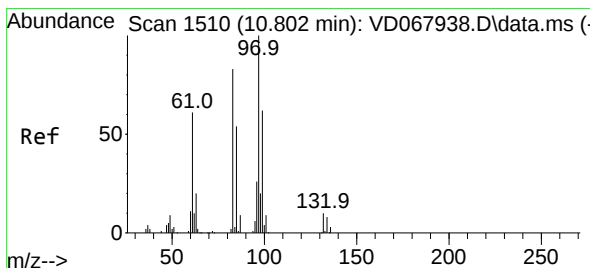
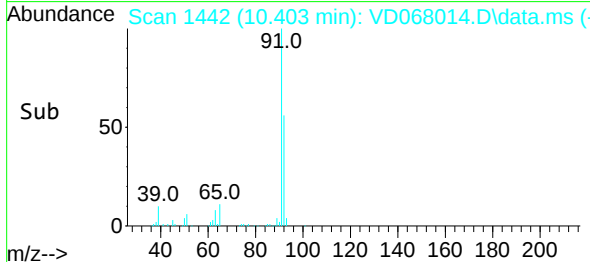
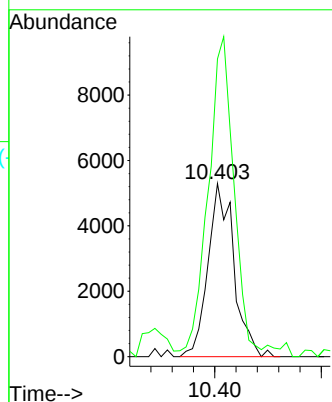


#53
t-1,3-Dichloropropene
Concen: 1.41 ug/l
RT: 10.403 min Scan# 1442
Delta R.T. -0.223 min
Lab File: VD068014.D
Acq: 06 Jan 2021 15:28

Instrument :
MSVOA_D
ClientSampled :
356

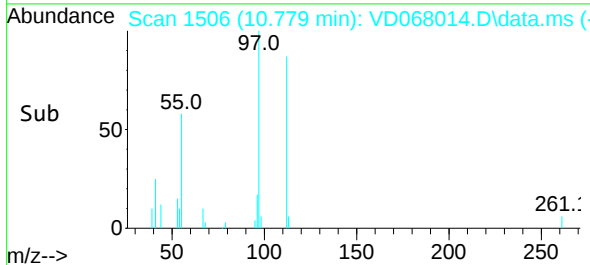
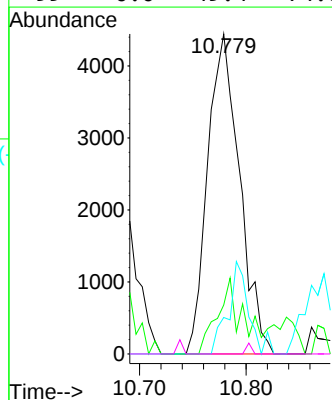
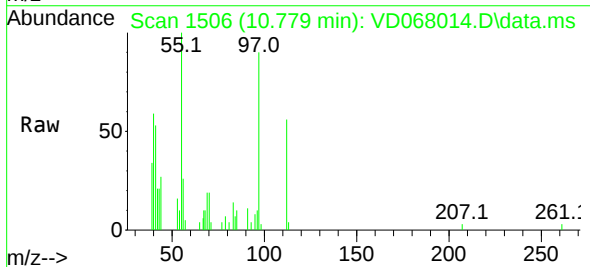


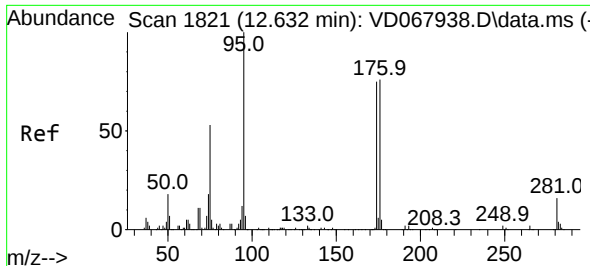
Tgt Ion: 75 Resp: 8932
Ion Ratio Lower Upper
75 100
77 168.6 26.8 40.2#



#55
1,1,2-Trichloroethane
Concen: 2.54 ug/l
RT: 10.779 min Scan# 1506
Delta R.T. -0.023 min
Lab File: VD068014.D
Acq: 06 Jan 2021 15:28

Tgt Ion: 97 Resp: 9230
Ion Ratio Lower Upper
97 100
83 15.3 66.4 99.6#
85 11.4 43.4 65.0#
99 0.0 49.4 74.0#

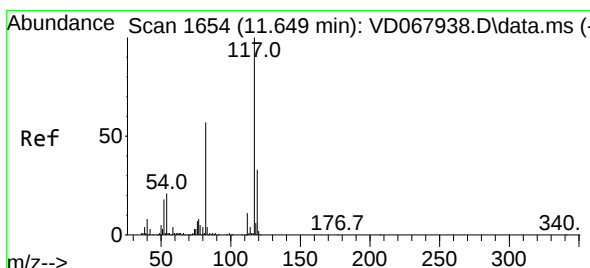
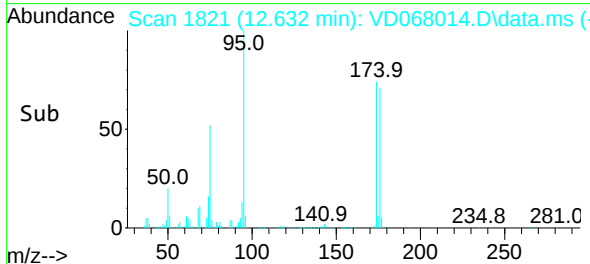
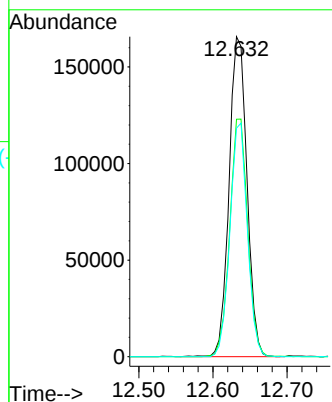
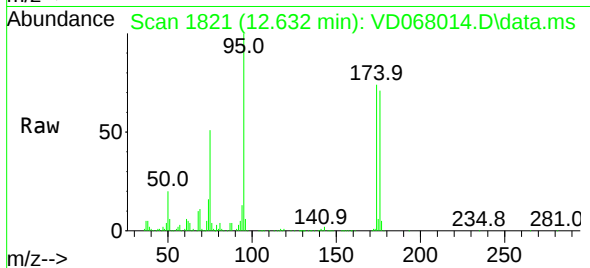




#62
4-Bromofluorobenzene
Concen: 50.27 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. 0.000 min
Lab File: VD068014.D
Acq: 06 Jan 2021 15:28

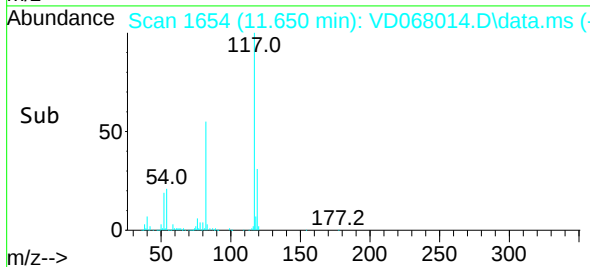
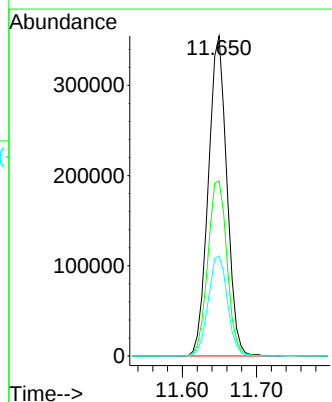
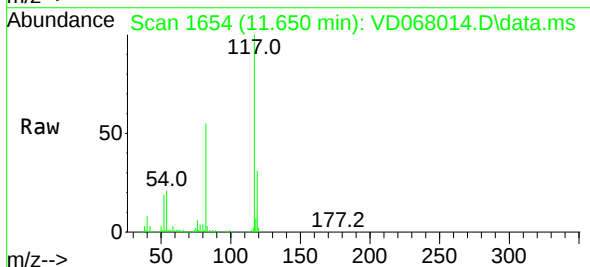
Instrument :
MSVOA_D
ClientSampleId :
356

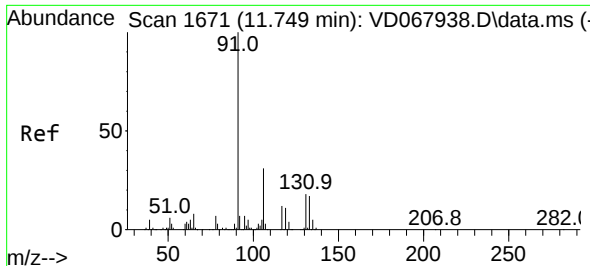
Tgt Ion: 95 Resp: 277648
Ion Ratio Lower Upper
95 100
174 74.4 0.0 150.6
176 70.9 0.0 151.2



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.650 min Scan# 1654
Delta R.T. 0.000 min
Lab File: VD068014.D
Acq: 06 Jan 2021 15:28

Tgt Ion: 117 Resp: 617142
Ion Ratio Lower Upper
117 100
82 54.6 45.4 68.0
119 31.3 26.7 40.1

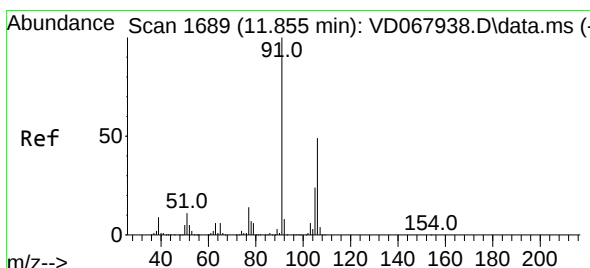
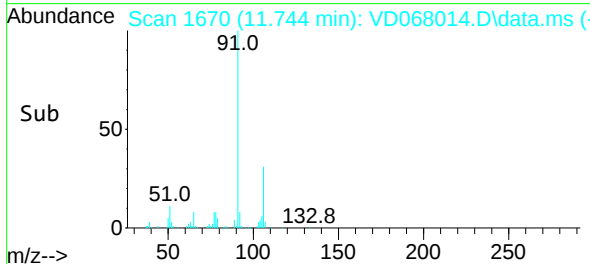
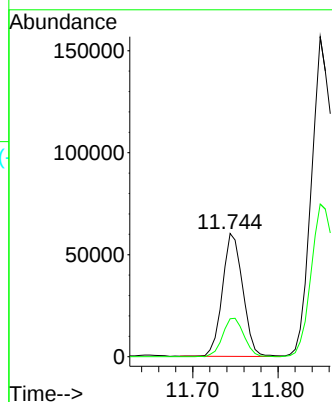
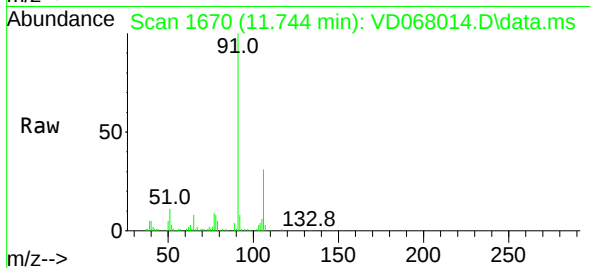




#67
Ethyl Benzene
Concen: 4.20 ug/l
RT: 11.744 min Scan# 1670
Delta R.T. -0.006 min
Lab File: VD068014.D
Acq: 06 Jan 2021 15:28

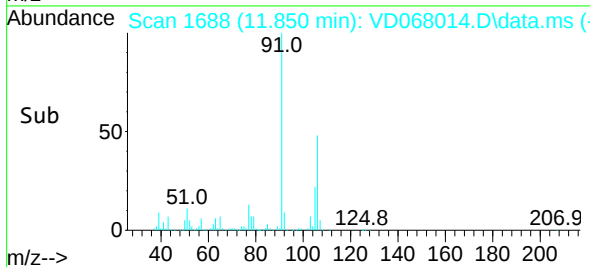
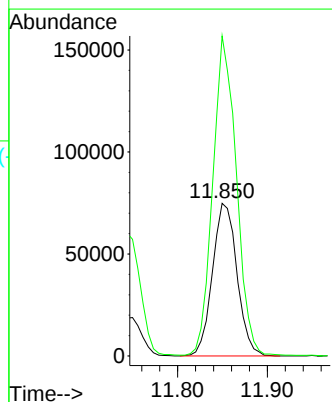
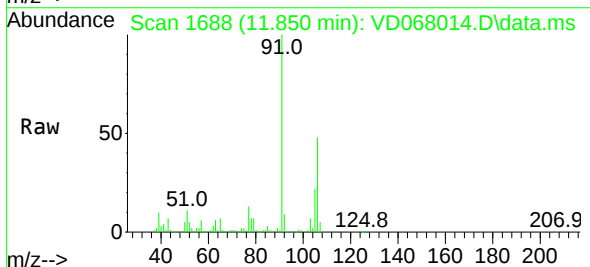
Instrument :
MSVOA_D
ClientSampleId :
356

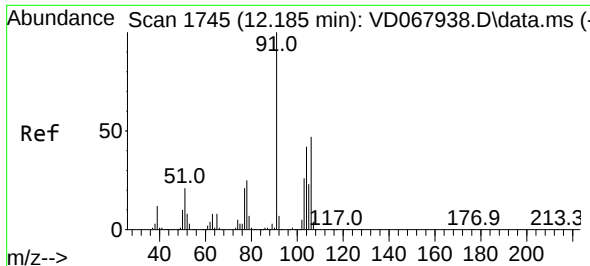
Tgt Ion: 91 Resp: 99791
Ion Ratio Lower Upper
91 100
106 30.9 24.6 37.0



#68
m/p-Xylenes
Concen: 15.70 ug/l
RT: 11.850 min Scan# 1688
Delta R.T. -0.006 min
Lab File: VD068014.D
Acq: 06 Jan 2021 15:28

Tgt Ion:106 Resp: 142063
Ion Ratio Lower Upper
106 100
91 202.5 159.9 239.9

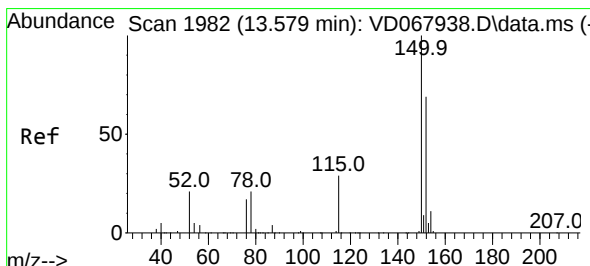
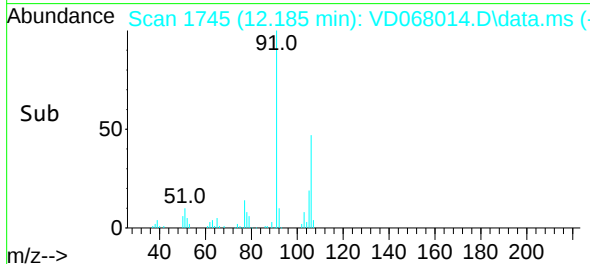
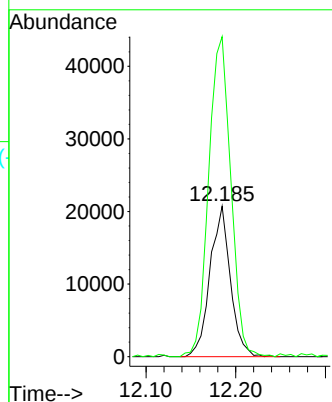
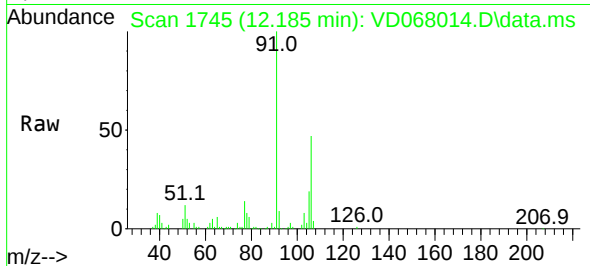




#69
o-Xylene
Concen: 4.04 ug/l
RT: 12.185 min Scan# 1745
Delta R.T. 0.000 min
Lab File: VD068014.D
Acq: 06 Jan 2021 15:28

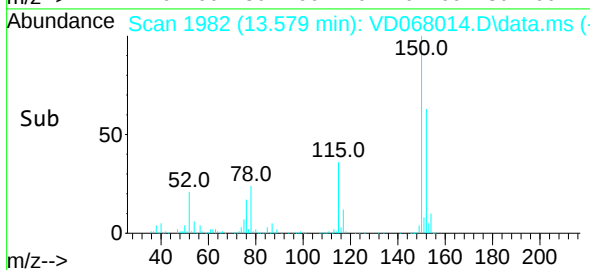
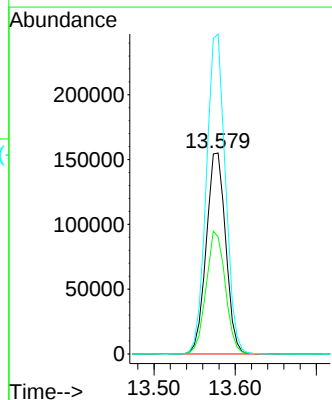
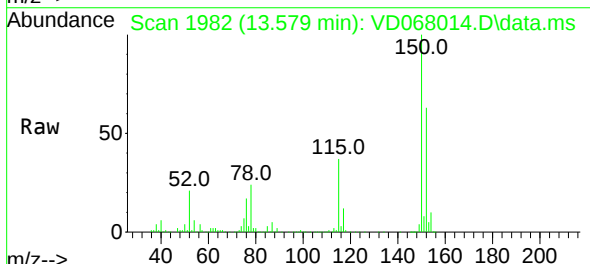
Instrument :
MSVOA_D
ClientSampled :
356

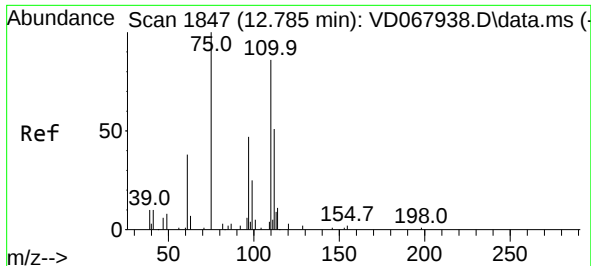
Tgt Ion:106 Resp: 32729
Ion Ratio Lower Upper
106 100
91 230.9 106.0 317.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.579 min Scan# 1982
Delta R.T. 0.000 min
Lab File: VD068014.D
Acq: 06 Jan 2021 15:28

Tgt Ion:152 Resp: 258100
Ion Ratio Lower Upper
152 100
115 60.3 29.3 88.0
150 155.8 0.0 340.0

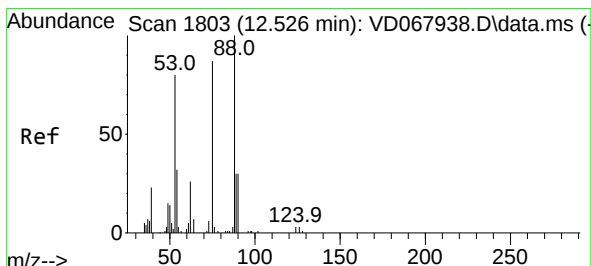
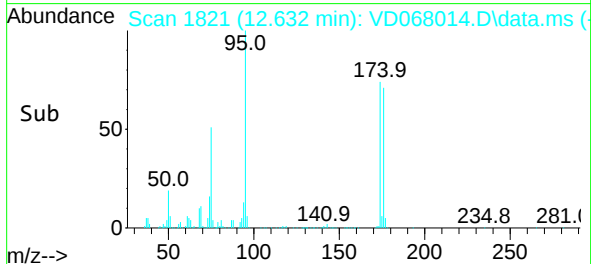
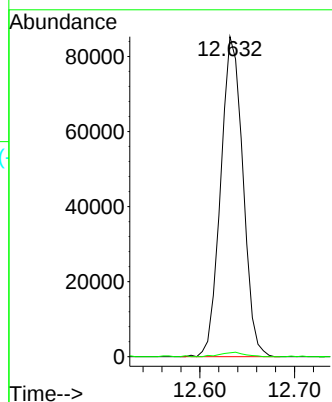
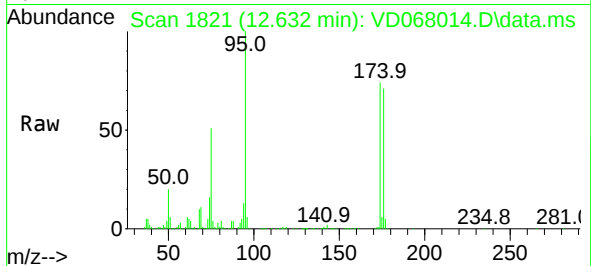




#76
1,2,3-Trichloropropane
Concen: 64.05 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. -0.153 min
Lab File: VD068014.D
Acq: 06 Jan 2021 15:28

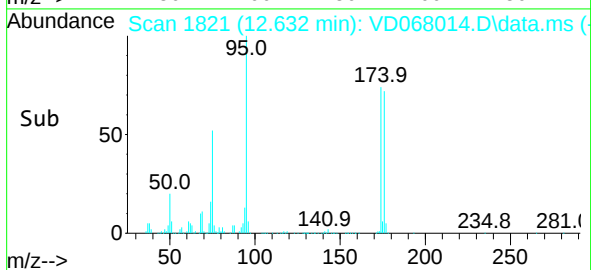
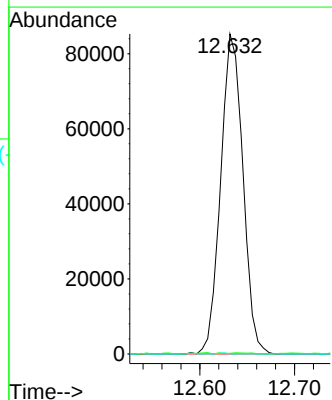
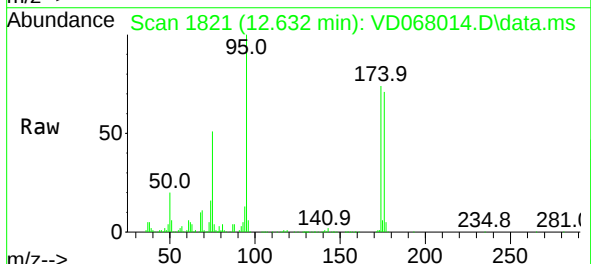
Instrument :
MSVOA_D
ClientSampleId :
356

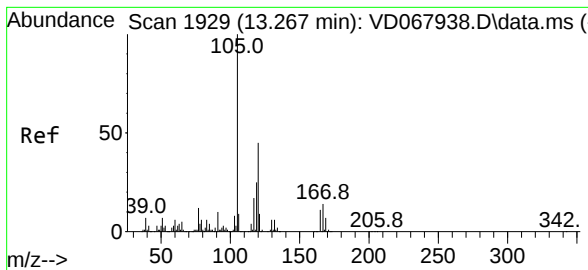
Tgt Ion: 75 Resp: 139174
Ion Ratio Lower Upper
75 100
77 1.5 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 131.28 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. 0.106 min
Lab File: VD068014.D
Acq: 06 Jan 2021 15:28

Tgt Ion: 75 Resp: 139174
Ion Ratio Lower Upper
75 100
53 0.4 74.9 112.3#
89 0.1 33.8 50.8#





#84
 1,2,4-Trimethylbenzene
 Concen: 1.35 ug/l
 RT: 13.267 min Scan# 1929
 Delta R.T. 0.000 min
 Lab File: VD068014.D
 Acq: 06 Jan 2021 15:28

Instrument :
 MSVOA_D
 ClientSampleId :
 356

Tgt Ion:105 Resp: 21610
 Ion Ratio Lower Upper
 105 100
 120 44.4 22.7 68.0

