

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD062321\
 Data File : VD069544.D
 Acq On : 23 Jun 2021 14:49
 Operator : VA/SY
 Sample : M2812-04
 Misc : 6.60G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 24 06:08:53 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D062121S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 22 04:33:24 2021
 Response via : Initial Calibration

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

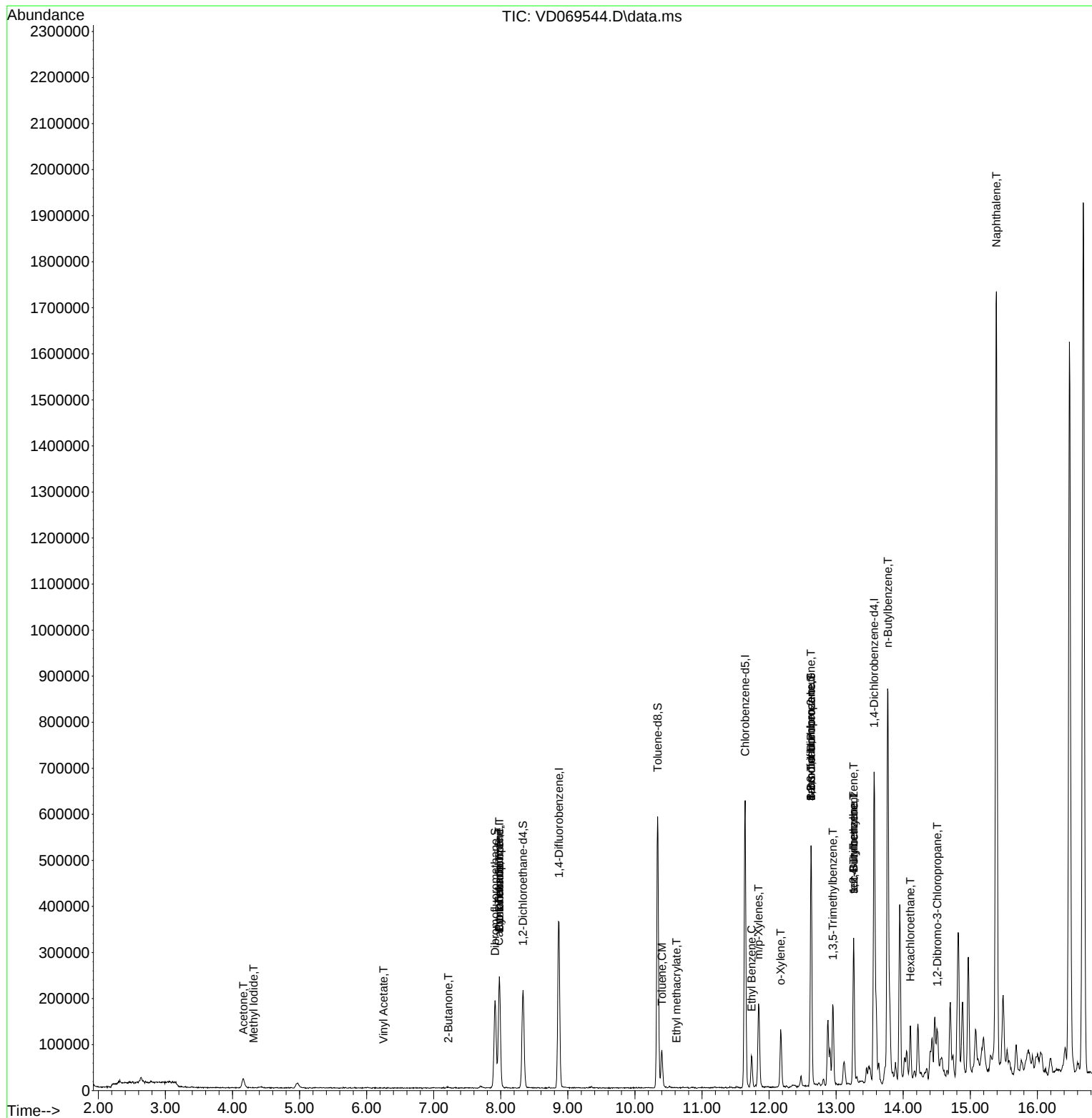
Internal Standards						
1) Pentafluorobenzene	7.979	168	162908	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.867	114	306432	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.643	117	358826	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	178968	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	171530	84.472	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 168.940%#			
35) Dibromofluoromethane	7.914	113	137774	66.512	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 133.020%			
50) Toluene-d8	10.337	98	413161	53.175	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 106.360%			
62) 4-Bromofluorobenzene	12.626	95	170214	66.637	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 133.280%			
Target Compounds					Qvalue	
5) Bromomethane	2.779	94	763	Below Cal	#	66
10) Methyl Iodide	4.314	142	74	3.980	ug/l #	39
11) Tert butyl alcohol	5.226	59	885	Below Cal	#	83
16) Acetone	4.161	43	33910	99.214	ug/l	96
18) Methyl Acetate	4.702	43	306	Below Cal	#	49
20) Methylene Chloride	4.967	84	8949	Below Cal	#	73
23) Vinyl Acetate	6.249	43	62	19.030	ug/l #	70
25) 2-Butanone	7.220	43	656	1.510	ug/l #	44
31) Cyclohexane	7.979	56	4485	1.640	ug/l #	50
36) 1,1-Dichloropropene	7.979	75	16011	5.324	ug/l #	49
38) Carbon Tetrachloride	7.973	117	17530	5.890	ug/l #	17
52) Toluene	10.402	92	33745	6.307	ug/l	93
56) Ethyl methacrylate	10.620	69	55	2.608	ug/l #	12
67) Ethyl Benzene	11.737	91	45429	3.644	ug/l	93
68) m/p-Xylenes	11.843	106	53848	11.472	ug/l	97
69) o-Xylene	12.173	106	31022	7.373	ug/l	97
71) Bromoform	12.626	173	1422	1.081	ug/l #	1
76) 1,2,3-Trichloropropane	12.626	75	86296	49.121	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.949	105	86149	8.302	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.626	75	86296	122.649	ug/l #	13
83) tert-Butylbenzene	13.261	119	24081	4.480	ug/l #	67
84) 1,2,4-Trimethylbenzene	13.261	105	173506	16.820	ug/l	99
85) sec-Butylbenzene	13.261	105	173506	13.411	ug/l #	58
89) n-Butylbenzene	13.772	91	93126	8.572	ug/l #	44
90) Hexachloroethane	14.108	117	9748	4.579	ug/l #	17
92) 1,2-Dibromo-3-Chloropr...	14.508	75	3759	10.003	ug/l #	4
95) Naphthalene	15.390	128	1478527	250.758	ug/l	100

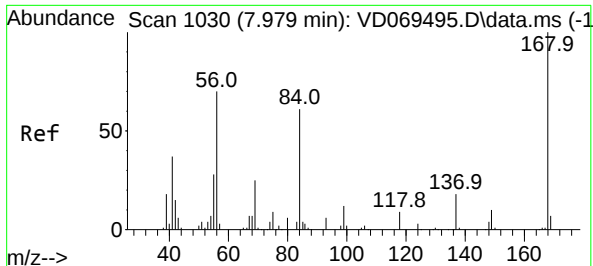
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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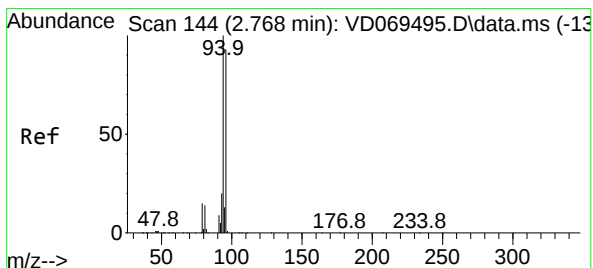
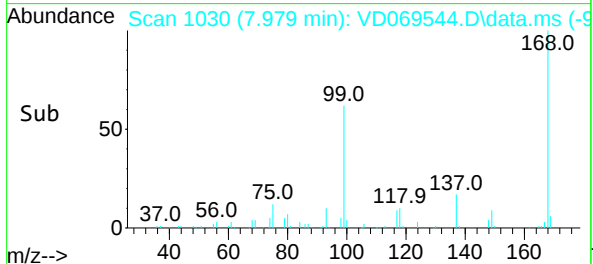
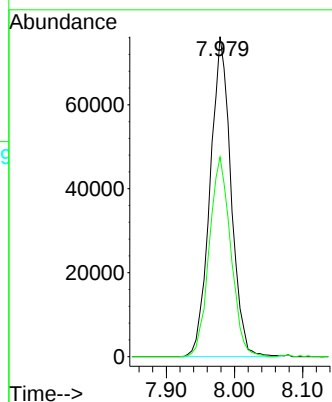
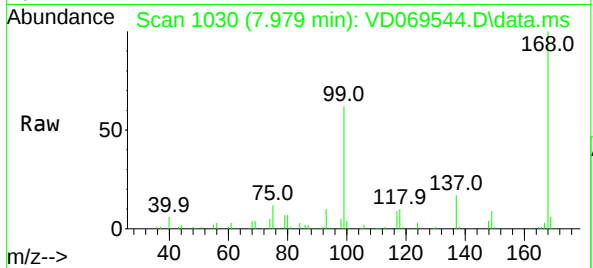




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.000 min
Lab File: VD069544.D
Acq: 23 Jun 2021 14:49

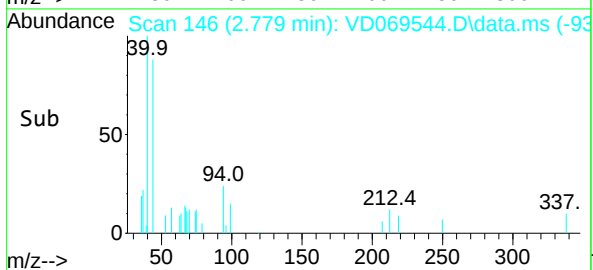
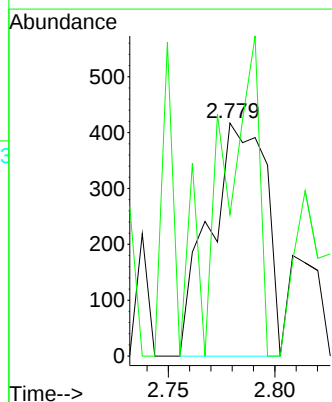
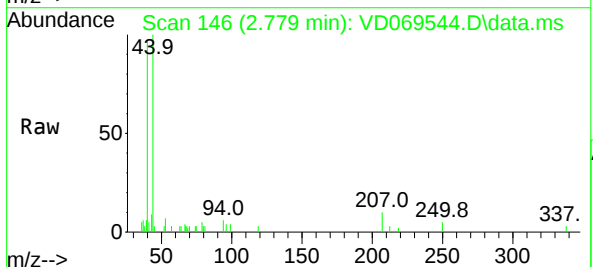
Instrument :
MSVOA_D
ClientSampleId :

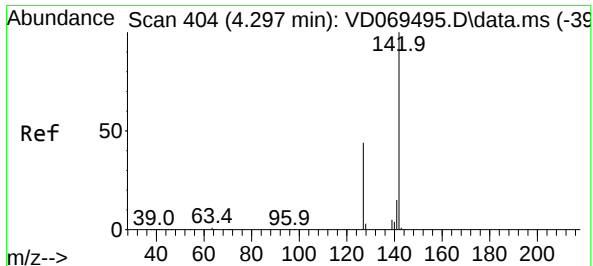
Tgt Ion:168 Resp: 162908
Ion Ratio Lower Upper
168 100
99 62.4 49.3 73.9



#5
Bromomethane
Concen: Below Cal
RT: 2.779 min Scan# 146
Delta R.T. 0.011 min
Lab File: VD069544.D
Acq: 23 Jun 2021 14:49

Tgt Ion: 94 Resp: 763
Ion Ratio Lower Upper
94 100
96 60.7 74.6 111.8#

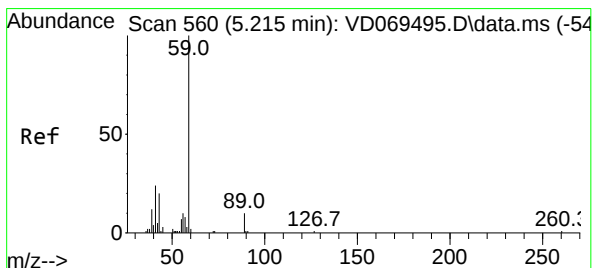
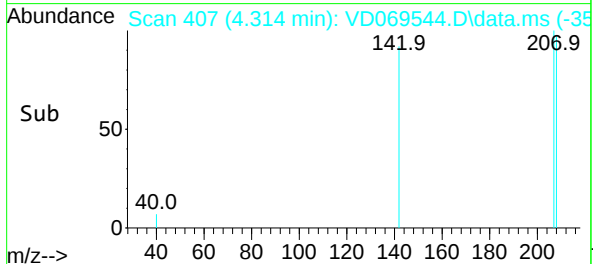
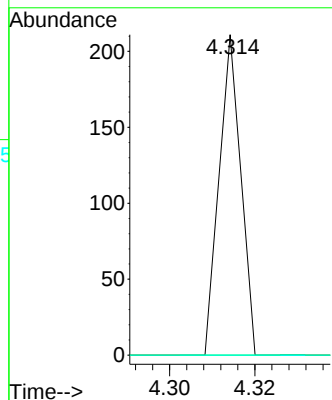
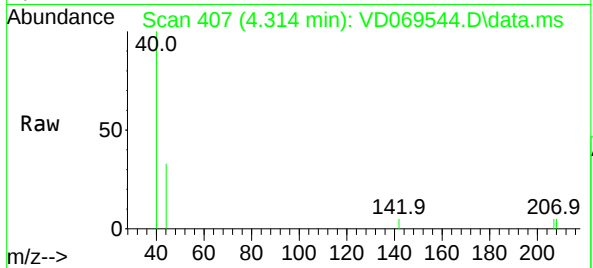




#10
Methyl Iodide
Concen: 3.980 ug/l
RT: 4.314 min Scan# 407
Delta R.T. 0.017 min
Lab File: VD069544.D
Acq: 23 Jun 2021 14:49

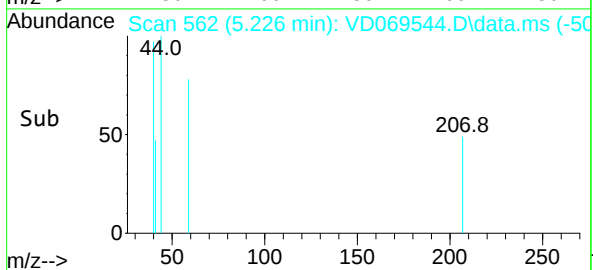
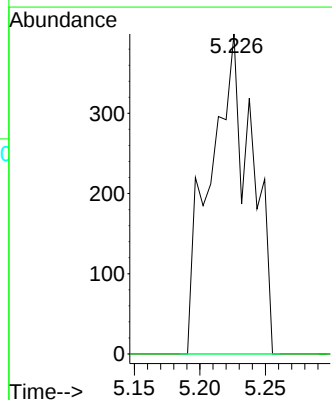
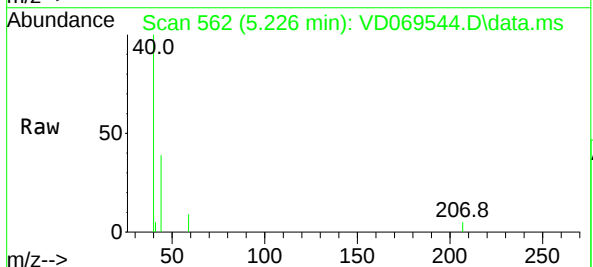
Instrument :
MSVOA_D
ClientSampled :

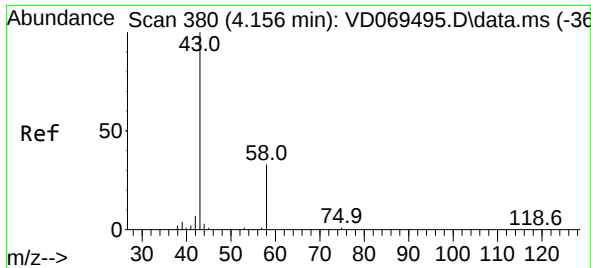
Tgt Ion:142 Resp: 74
Ion Ratio Lower Upper
142 100
127 0.0 36.5 54.7#
141 0.0 12.0 18.0#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.226 min Scan# 562
Delta R.T. 0.011 min
Lab File: VD069544.D
Acq: 23 Jun 2021 14:49

Tgt Ion: 59 Resp: 885
Ion Ratio Lower Upper
59 100
57 0.0 4.6 7.0#

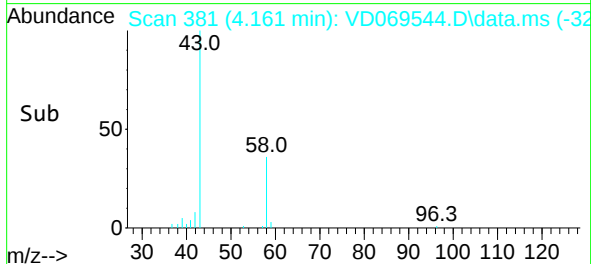
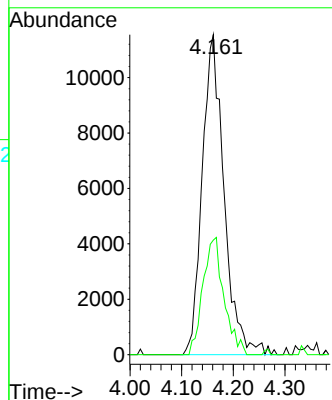
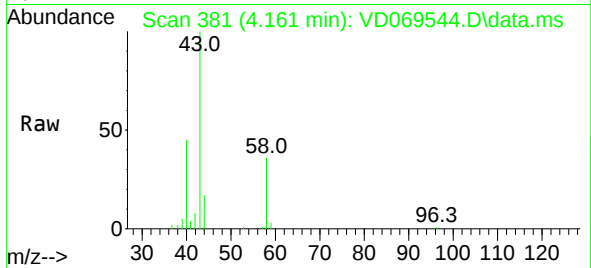




#16
Acetone
Concen: 99.214 ug/l
RT: 4.161 min Scan# 381
Delta R.T. 0.005 min
Lab File: VD069544.D
Acq: 23 Jun 2021 14:49

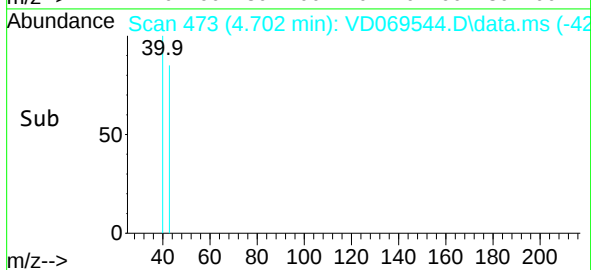
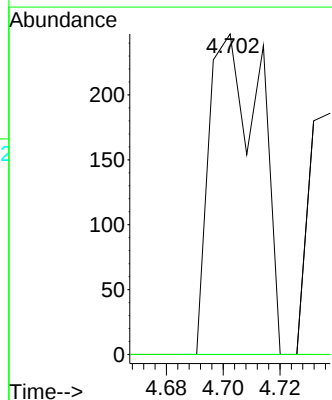
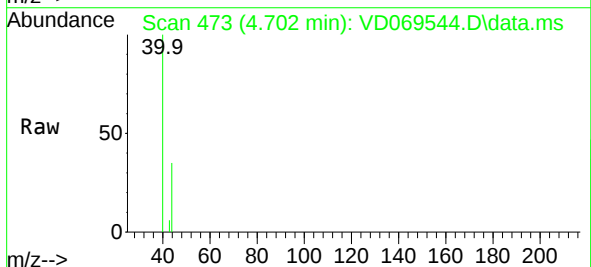
Instrument :
MSVOA_D
ClientSampled :

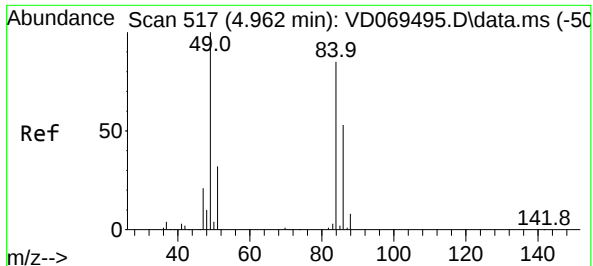
Tgt Ion: 43 Resp: 33910
Ion Ratio Lower Upper
43 100
58 35.8 26.8 40.2



#18
Methyl Acetate
Concen: Below Cal
RT: 4.702 min Scan# 473
Delta R.T. -0.018 min
Lab File: VD069544.D
Acq: 23 Jun 2021 14:49

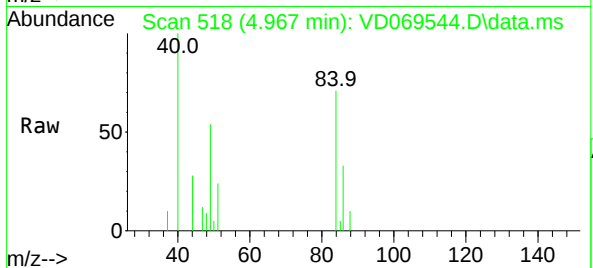
Tgt Ion: 43 Resp: 306
Ion Ratio Lower Upper
43 100
74 0.0 21.0 31.4#



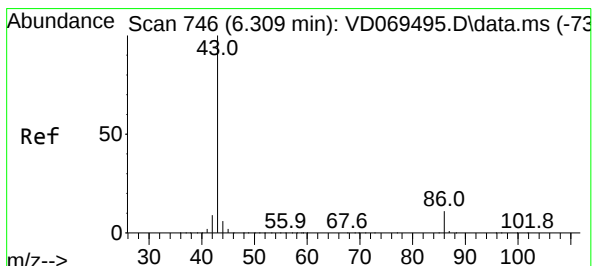
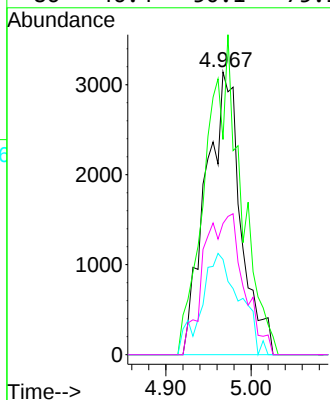
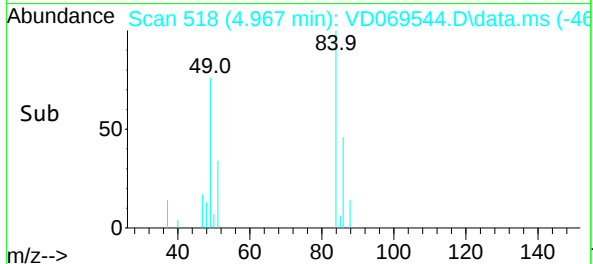


#20
Methylene Chloride
Concen: Below Cal
RT: 4.967 min Scan# 518
Delta R.T. 0.005 min
Lab File: VD069544.D
Acq: 23 Jun 2021 14:49

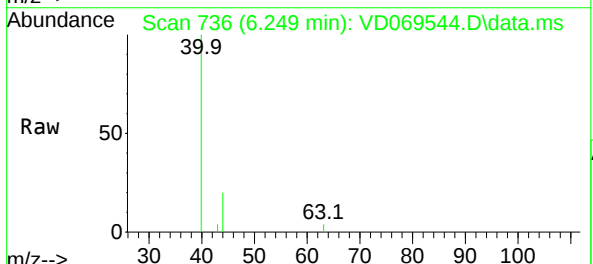
Instrument :
MSVOA_D
ClientSampleId :



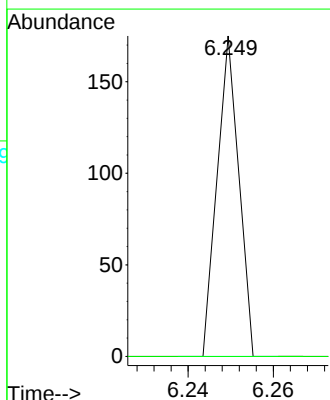
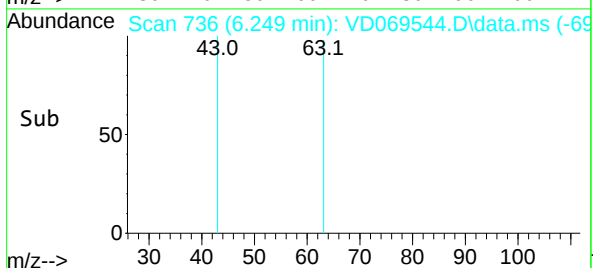
Tgt Ion: 84 Resp: 8949
Ion Ratio Lower Upper
84 100
49 76.1 94.0 141.0#
51 33.7 29.7 44.5
86 46.4 50.1 75.1#

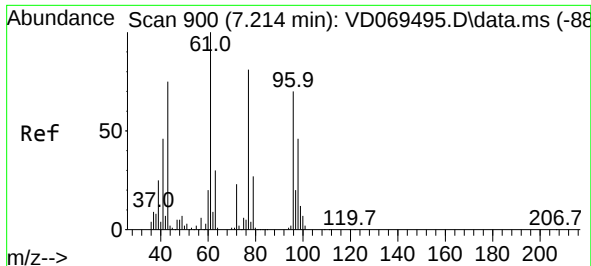


#23
Vinyl Acetate
Concen: 19.030 ug/l
RT: 6.249 min Scan# 736
Delta R.T. -0.060 min
Lab File: VD069544.D
Acq: 23 Jun 2021 14:49



Tgt Ion: 43 Resp: 62
Ion Ratio Lower Upper
43 100
86 0.0 9.1 13.7#

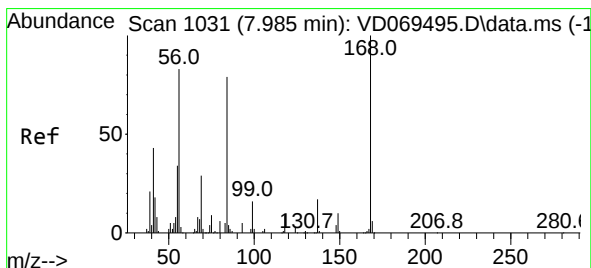
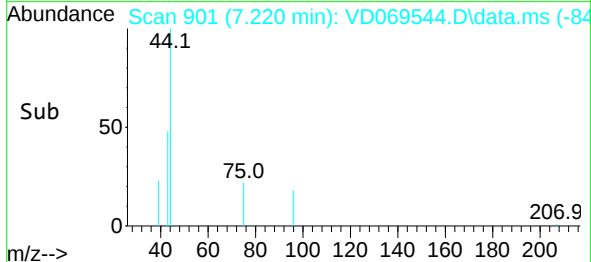
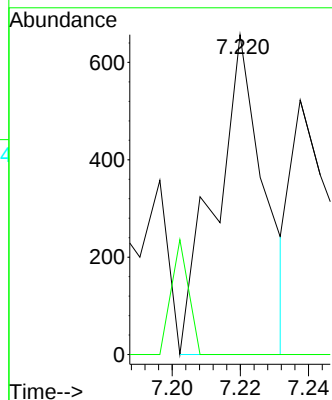
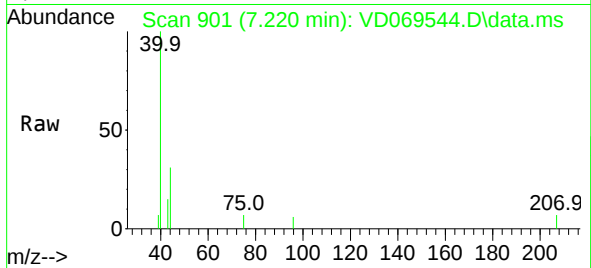




#25
2-Butanone
Concen: 1.510 ug/l
RT: 7.220 min Scan# 901
Delta R.T. 0.005 min
Lab File: VD069544.D
Acq: 23 Jun 2021 14:49

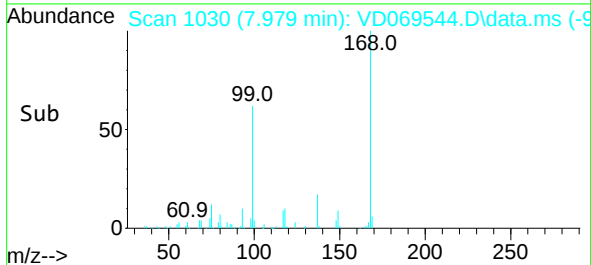
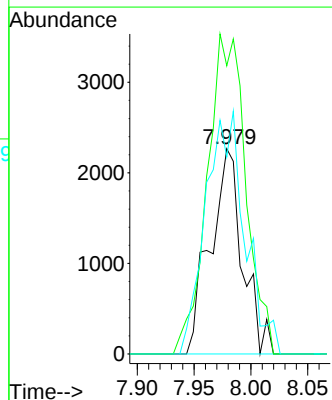
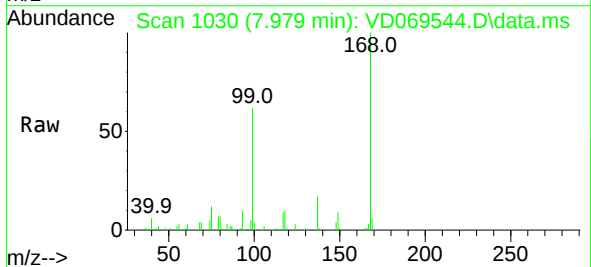
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MSVOA_D
ClientSampled :

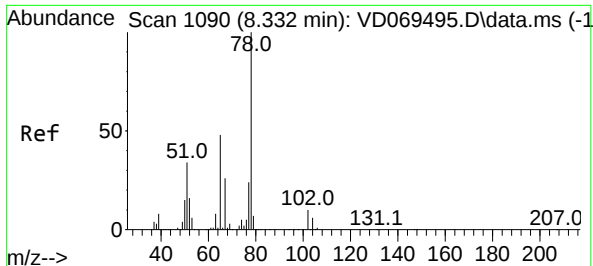
Tgt Ion: 43 Resp: 656
Ion Ratio Lower Upper
43 100
72 0.0 24.3 36.5#



#31
Cyclohexane
Concen: 1.640 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VD069544.D
Acq: 23 Jun 2021 14:49

Tgt Ion: 56 Resp: 4485
Ion Ratio Lower Upper
56 100
69 140.4 28.0 42.0#
84 96.0 75.7 113.5

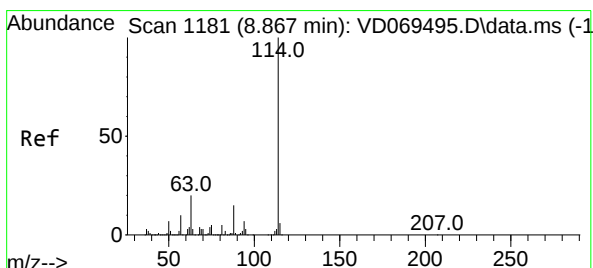
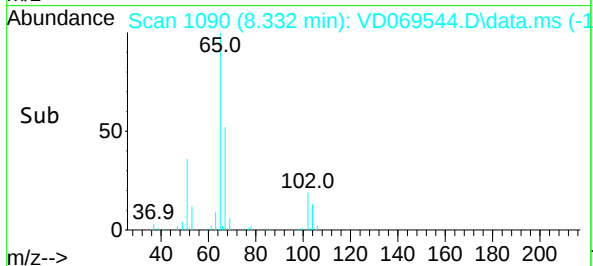
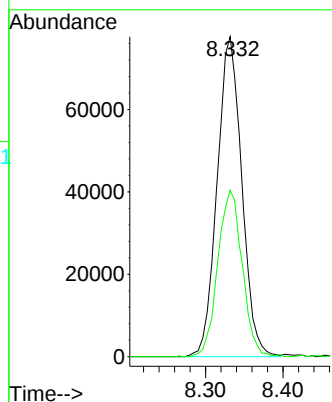
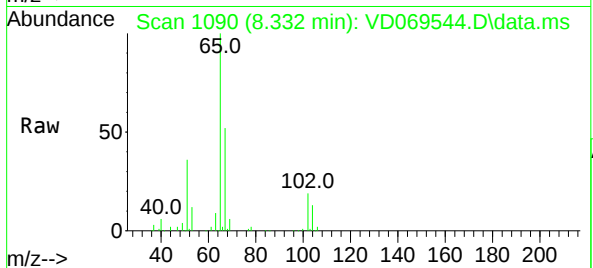




#33
1,2-Dichloroethane-d4
Concen: 84.472 ug/l
RT: 8.332 min Scan# 1090
Delta R.T. -0.000 min
Lab File: VD069544.D
Acq: 23 Jun 2021 14:49

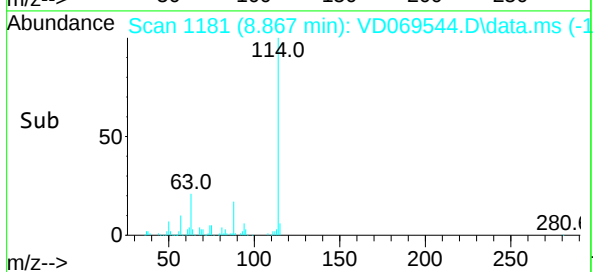
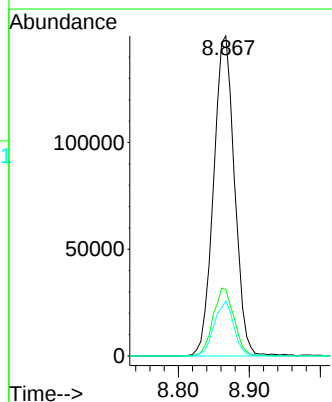
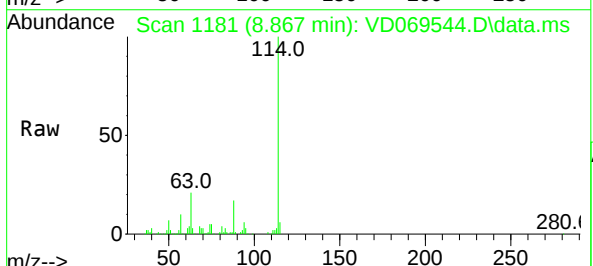
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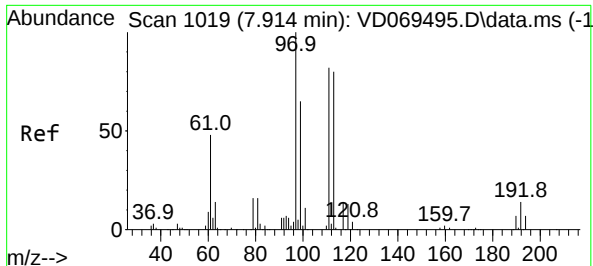
Tgt Ion: 65 Resp: 171530
Ion Ratio Lower Upper
65 100
67 51.7 0.0 105.6



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.867 min Scan# 1181
Delta R.T. -0.000 min
Lab File: VD069544.D
Acq: 23 Jun 2021 14:49

Tgt Ion:114 Resp: 306432
Ion Ratio Lower Upper
114 100
63 20.8 0.0 39.6
88 17.1 0.0 29.8





#35

Dibromofluoromethane

Concen: 66.512 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. -0.000 min

Lab File: VD069544.D

Acq: 23 Jun 2021 14:49

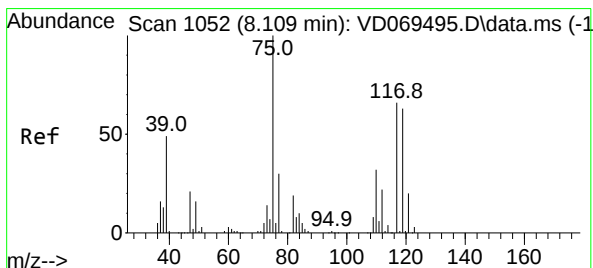
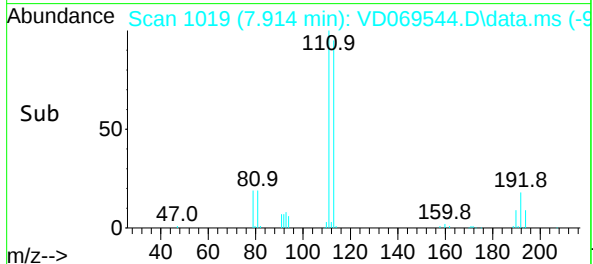
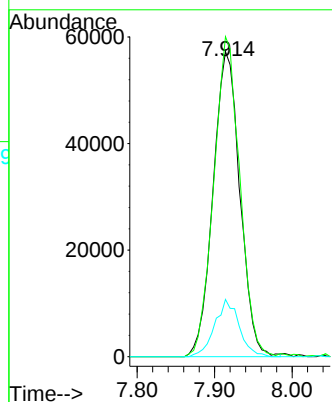
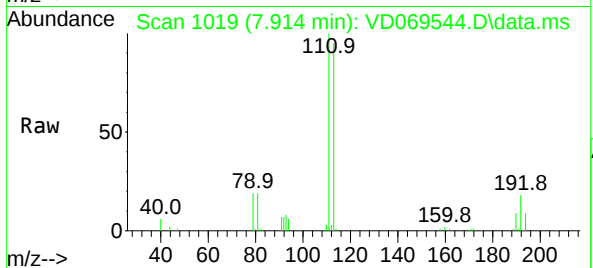
Tgt Ion:113 Resp: 137774

Ion Ratio Lower Upper

113 100

111 102.1 81.8 122.8

192 17.1 13.8 20.6



#36

1,1-Dichloropropene

Concen: 5.324 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. -0.130 min

Lab File: VD069544.D

Acq: 23 Jun 2021 14:49

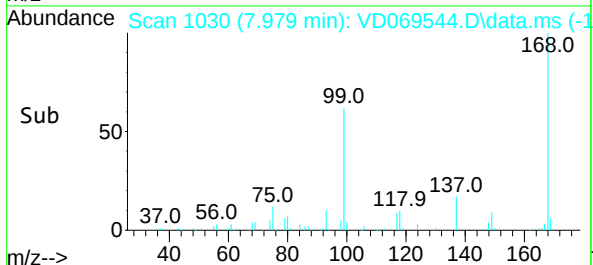
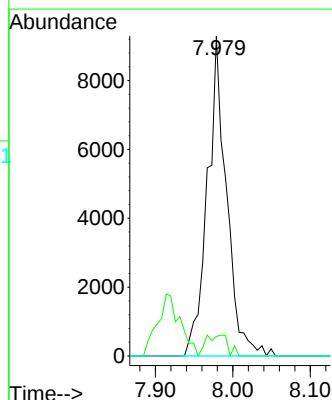
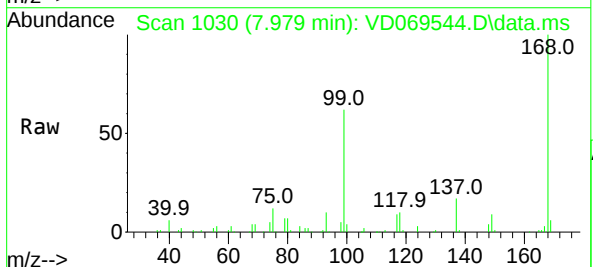
Tgt Ion: 75 Resp: 16011

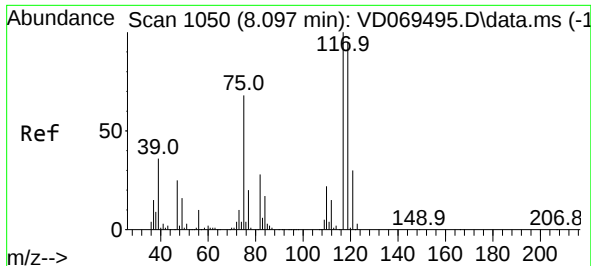
Ion Ratio Lower Upper

75 100

110 7.4 16.8 50.4#

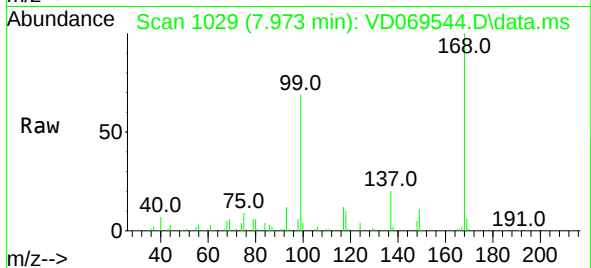
77 0.0 24.3 36.5#



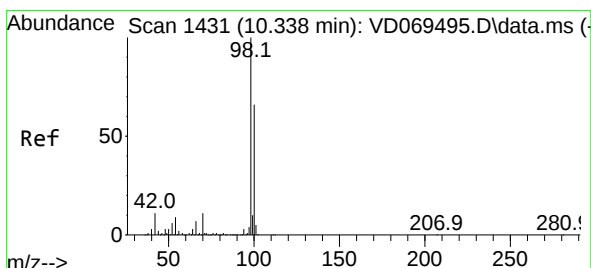
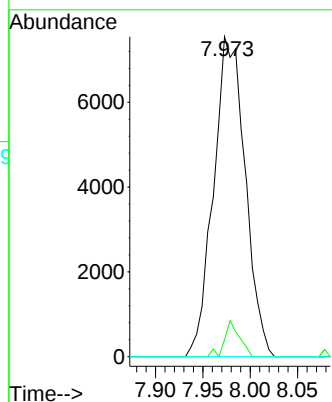
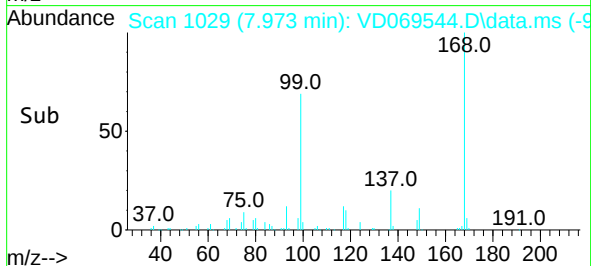


#38
Carbon Tetrachloride
Concen: 5.890 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.124 min
Lab File: VD069544.D
Acq: 23 Jun 2021 14:49

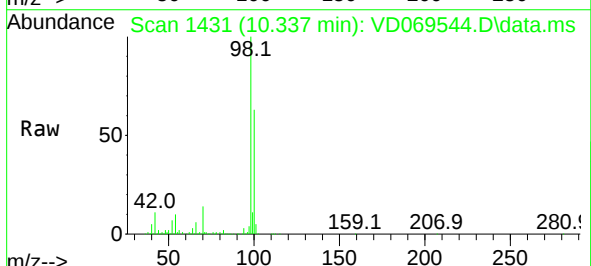
Instrument :
MSVOA_D
ClientSampled :



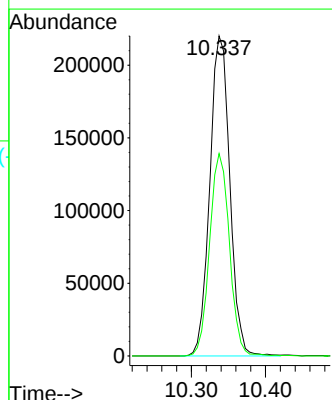
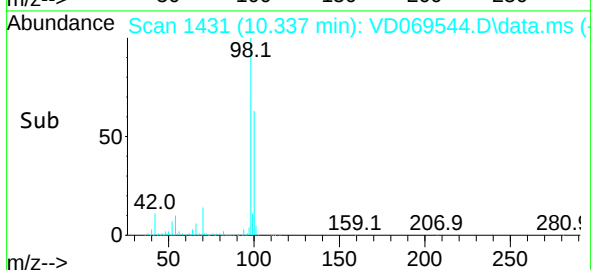
Tgt Ion:117 Resp: 17530
Ion Ratio Lower Upper
117 100
119 5.3 75.6 113.4#
121 0.0 23.8 35.8#

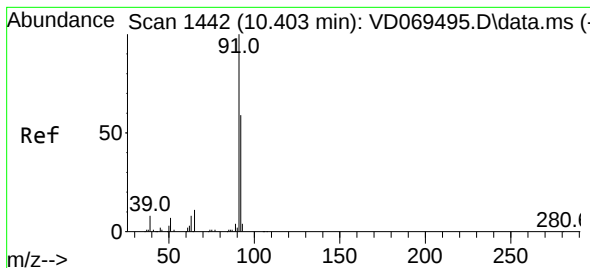


#50
Toluene-d8
Concen: 53.175 ug/l
RT: 10.337 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD069544.D
Acq: 23 Jun 2021 14:49



Tgt Ion: 98 Resp: 413161
Ion Ratio Lower Upper
98 100
100 62.6 52.3 78.5





#52

Toluene

Concen: 6.307 ug/l

RT: 10.402 min Scan# 1442

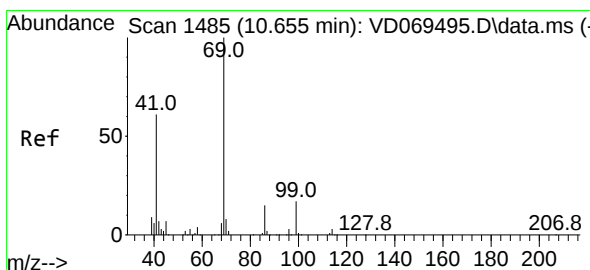
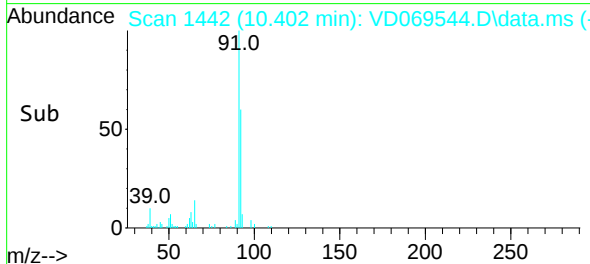
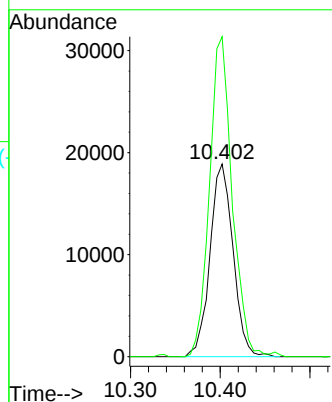
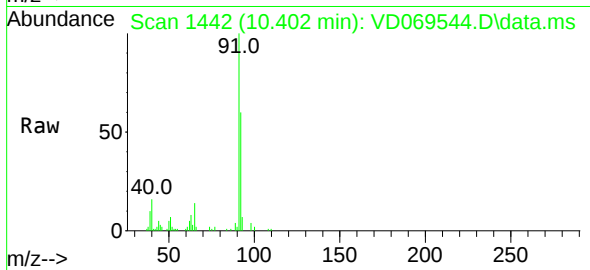
Delta R.T. -0.000 min

Lab File: VD069544.D

Acq: 23 Jun 2021 14:49

Tgt Ion: 92 Resp: 33745

Ion	Ratio	Lower	Upper
92	100		
91	163.9	138.9	208.3



#56

Ethyl methacrylate

Concen: 2.608 ug/l

RT: 10.620 min Scan# 1479

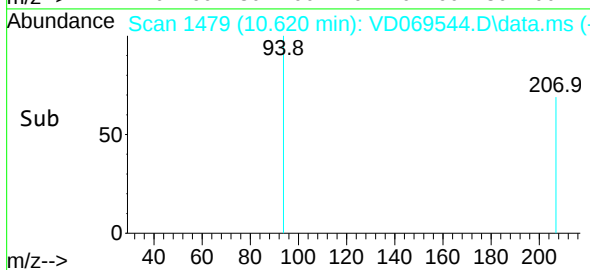
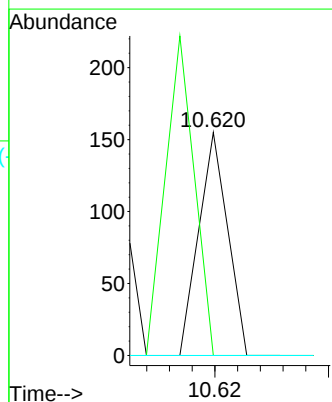
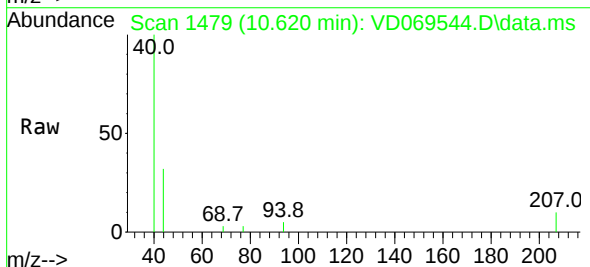
Delta R.T. -0.035 min

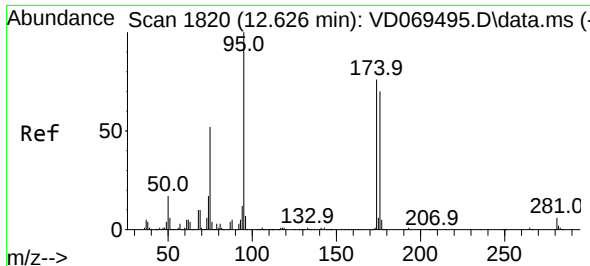
Lab File: VD069544.D

Acq: 23 Jun 2021 14:49

Tgt Ion: 69 Resp: 55

Ion	Ratio	Lower	Upper
69	100		
41	141.8	49.4	74.0#
39	0.0	26.9	40.3#

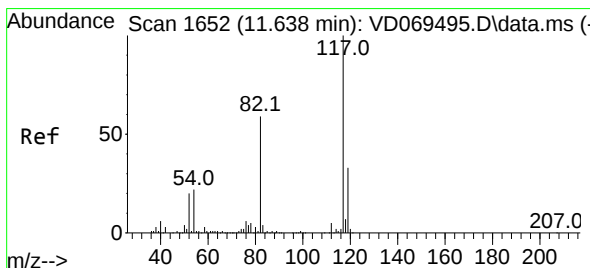
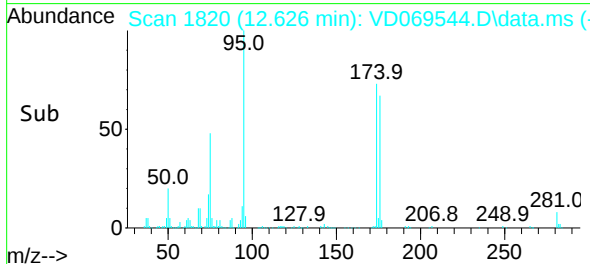
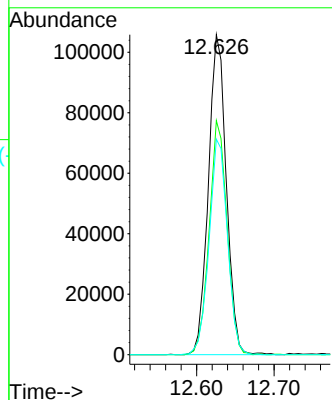
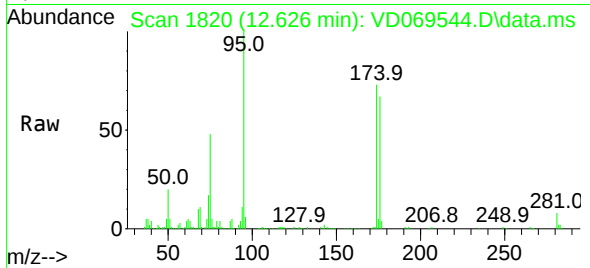




#62
4-Bromofluorobenzene
Concen: 66.637 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD069544.D
Acq: 23 Jun 2021 14:49

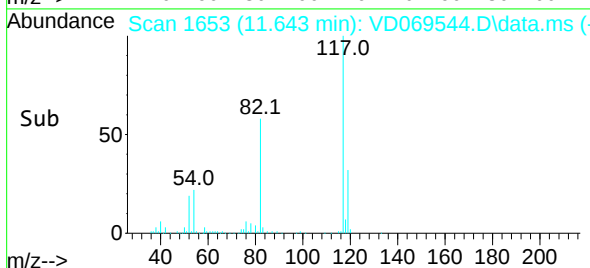
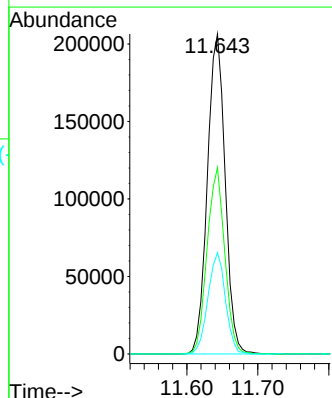
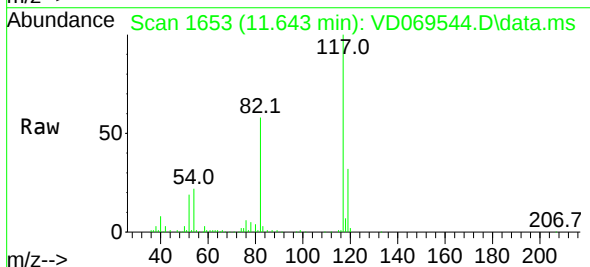
Instrument :
MSVOA_D
ClientSampleId :

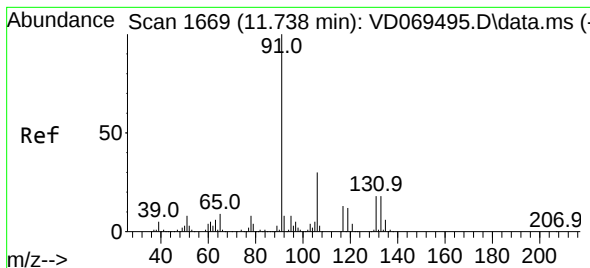
Tgt Ion: 95 Resp: 170214
Ion Ratio Lower Upper
95 100
174 72.8 0.0 148.0
176 68.7 0.0 139.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.643 min Scan# 1653
Delta R.T. 0.005 min
Lab File: VD069544.D
Acq: 23 Jun 2021 14:49

Tgt Ion: 117 Resp: 358826
Ion Ratio Lower Upper
117 100
82 58.2 46.8 70.2
119 31.6 26.2 39.2

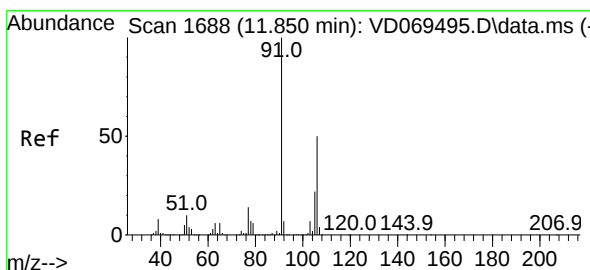
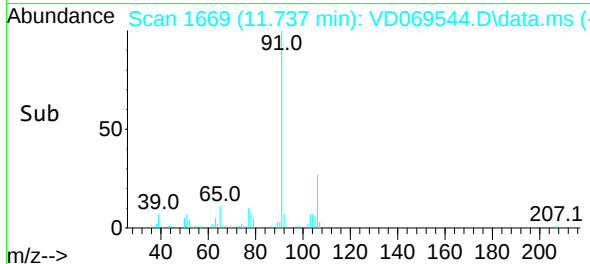
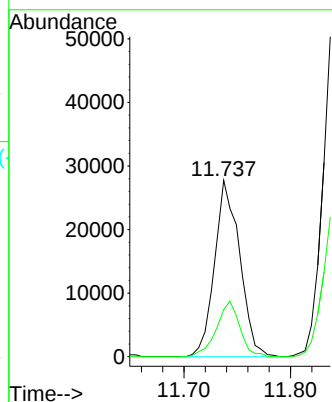
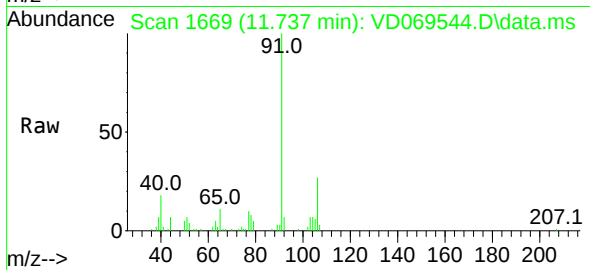




#67
Ethyl Benzene
Concen: 3.644 ug/l
RT: 11.737 min Scan# 1669
Delta R.T. -0.000 min
Lab File: VD069544.D
Acq: 23 Jun 2021 14:49

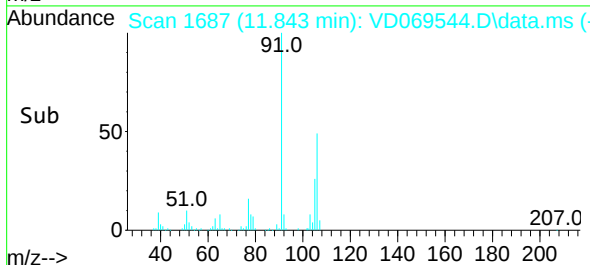
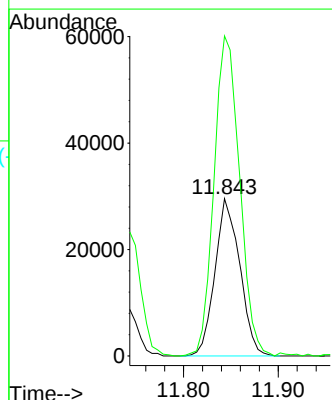
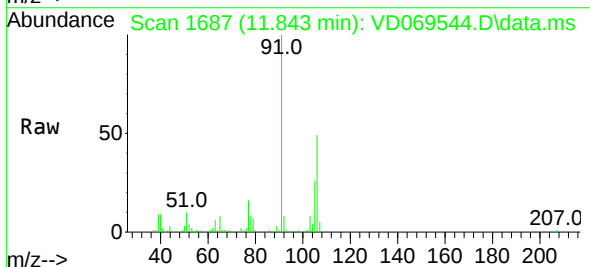
Instrument :
MSVOA_D
ClientSampled :

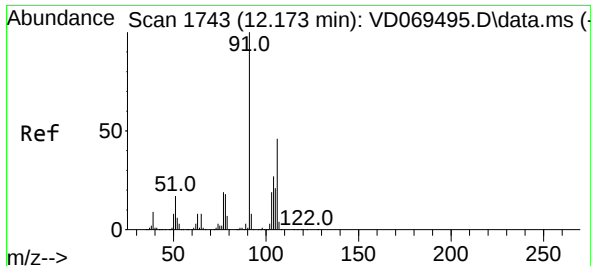
Tgt Ion: 91 Resp: 45429
Ion Ratio Lower Upper
91 100
106 26.7 24.2 36.4



#68
m/p-Xylenes
Concen: 11.472 ug/l
RT: 11.843 min Scan# 1687
Delta R.T. -0.006 min
Lab File: VD069544.D
Acq: 23 Jun 2021 14:49

Tgt Ion: 106 Resp: 53848
Ion Ratio Lower Upper
106 100
91 209.4 164.2 246.4

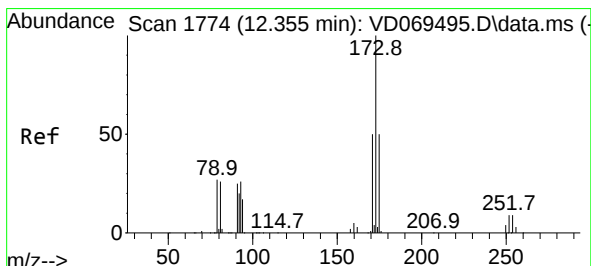
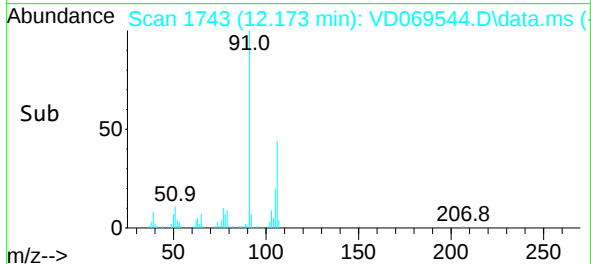
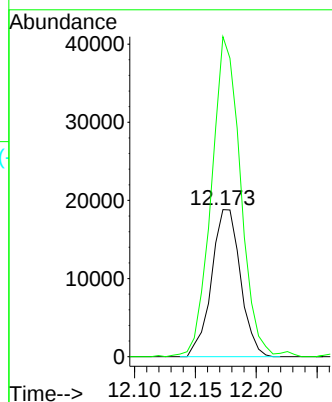
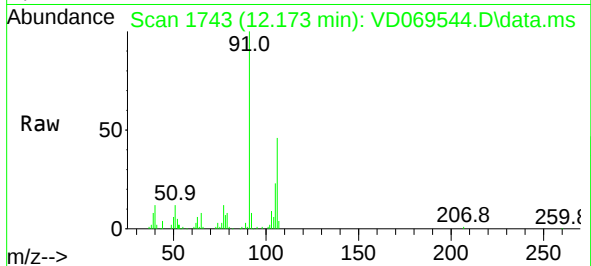




#69
o-Xylene
Concen: 7.373 ug/l
RT: 12.173 min Scan# 1743
Delta R.T. -0.000 min
Lab File: VD069544.D
Acq: 23 Jun 2021 14:49

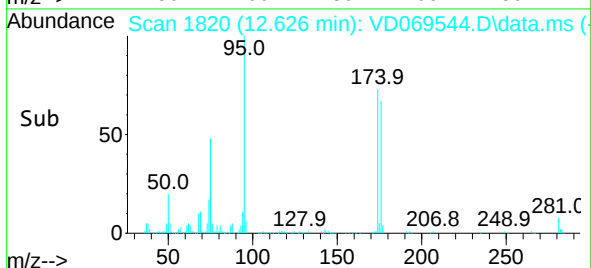
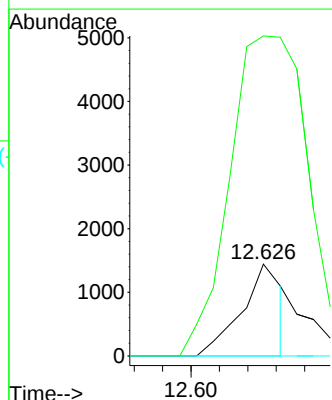
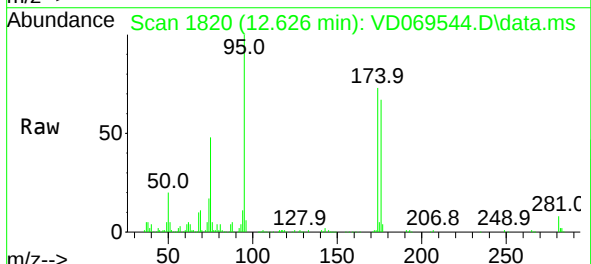
Instrument :
MSVOA_D
ClientSampleId :

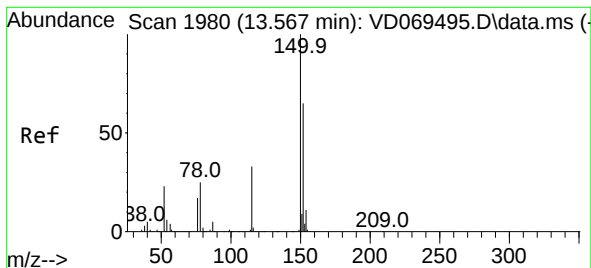
Tgt Ion:106 Resp: 31022
Ion Ratio Lower Upper
106 100
91 220.7 107.7 323.3



#71
Bromoform
Concen: 1.081 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.270 min
Lab File: VD069544.D
Acq: 23 Jun 2021 14:49

Tgt Ion:173 Resp: 1422
Ion Ratio Lower Upper
173 100
175 479.3 24.6 73.8#
254 0.0 0.1 0.1#

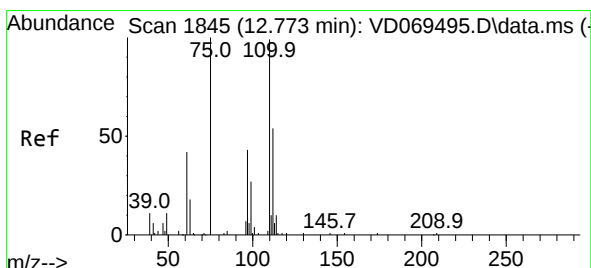
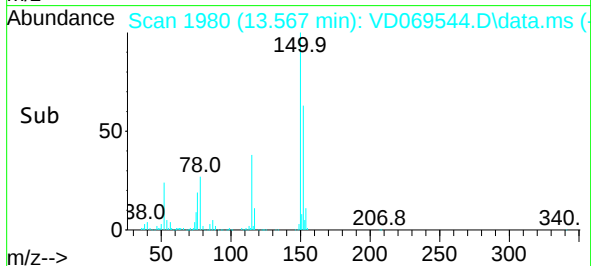
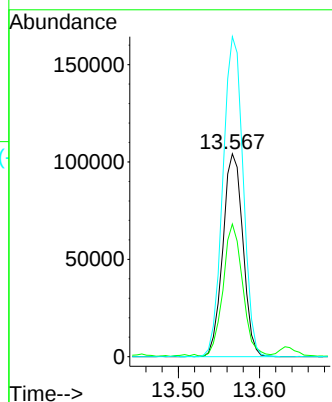
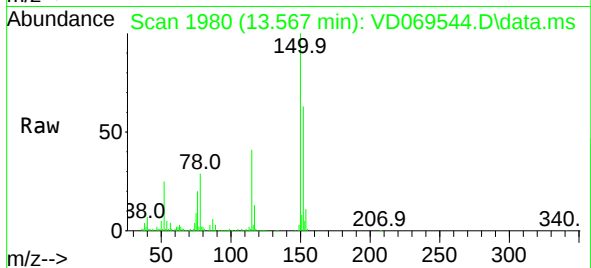




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.567 min Scan# 1980
 Delta R.T. -0.000 min
 Lab File: VD069544.D
 Acq: 23 Jun 2021 14:49

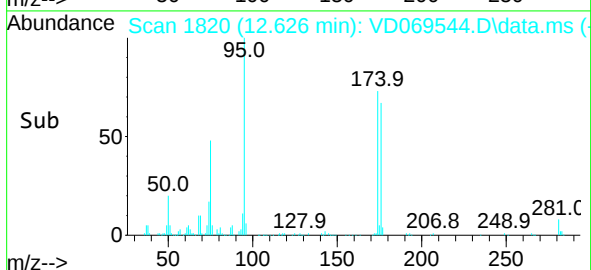
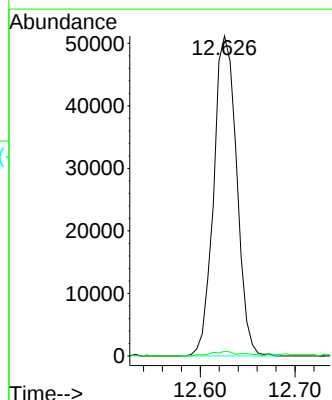
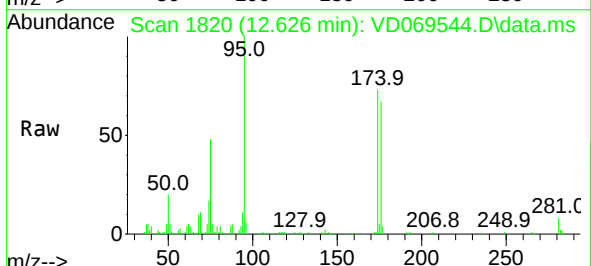
Instrument :
 MSVOA_D
 ClientSampleId :

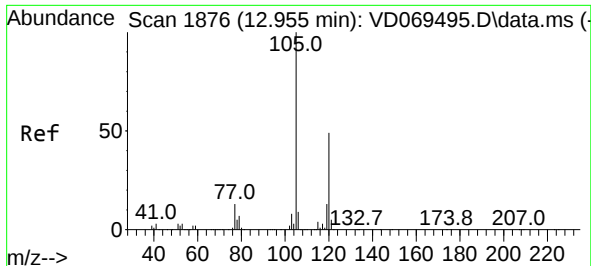
Tgt Ion:152 Resp: 178968
 Ion Ratio Lower Upper
 152 100
 115 63.4 31.7 95.1
 150 158.8 0.0 350.8



#76
 1,2,3-Trichloropropane
 Concen: 49.121 ug/l
 RT: 12.626 min Scan# 1820
 Delta R.T. -0.147 min
 Lab File: VD069544.D
 Acq: 23 Jun 2021 14:49

Tgt Ion: 75 Resp: 86296
 Ion Ratio Lower Upper
 75 100
 77 1.8 162.6 487.8#

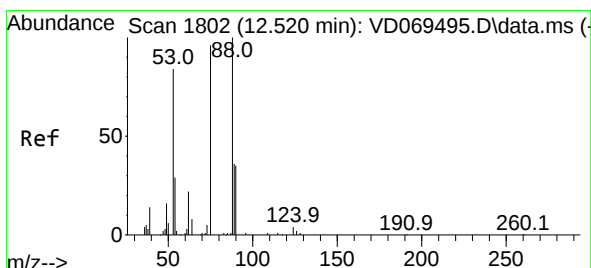
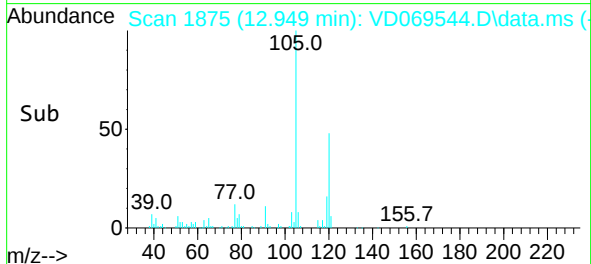
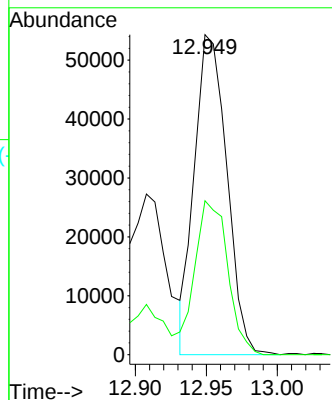
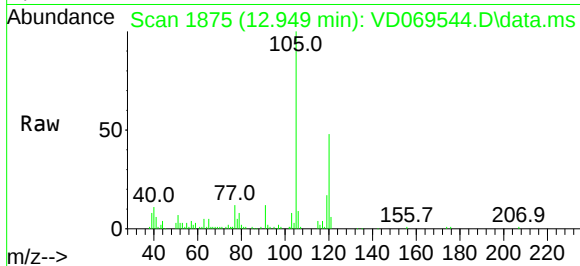




#80
1,3,5-Trimethylbenzene
Concen: 8.302 ug/l
RT: 12.949 min Scan# 1875
Delta R.T. -0.006 min
Lab File: VD069544.D
Acq: 23 Jun 2021 14:49

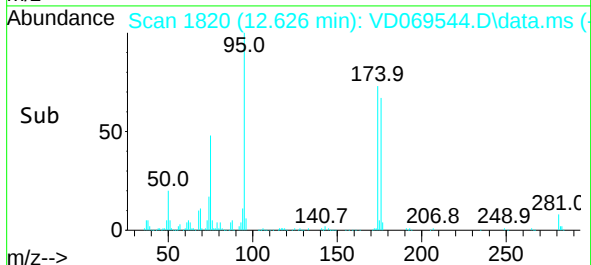
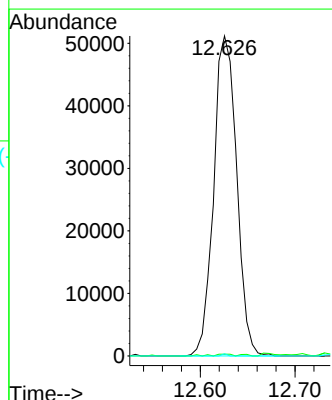
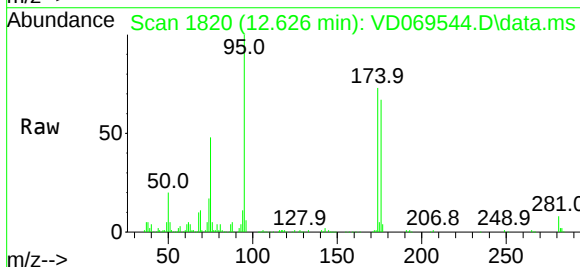
Instrument :
MSVOA_D
ClientSampleId :

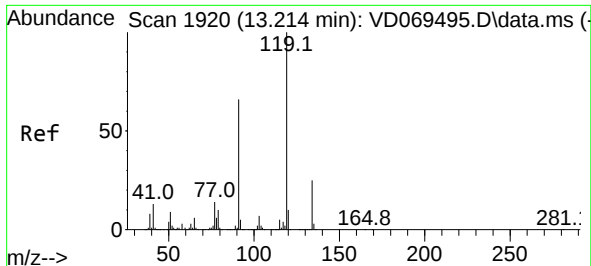
Tgt Ion:105 Resp: 86149
Ion Ratio Lower Upper
105 100
120 49.7 23.6 70.8



#81
trans-1,4-Dichloro-2-butene
Concen: 122.649 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.106 min
Lab File: VD069544.D
Acq: 23 Jun 2021 14:49

Tgt Ion: 75 Resp: 86296
Ion Ratio Lower Upper
75 100
53 0.4 74.6 112.0#
89 0.1 35.3 52.9#

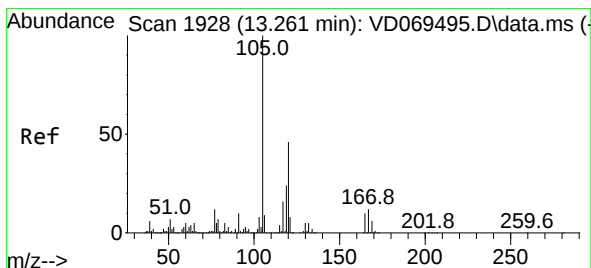
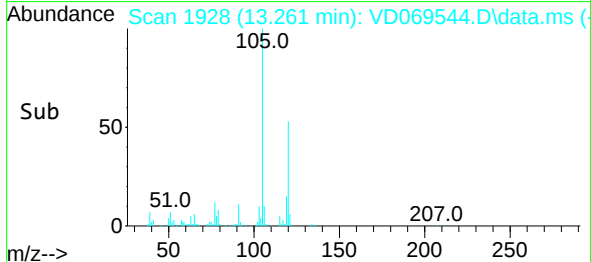
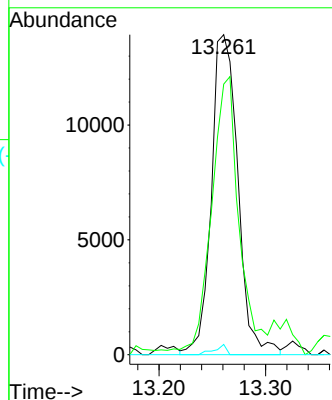
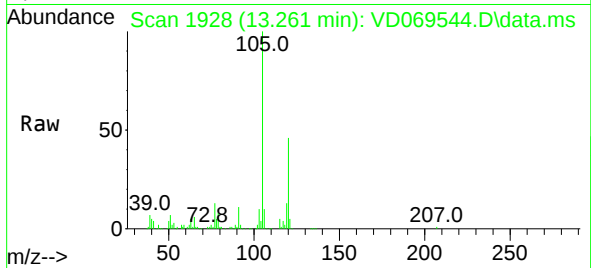




#83
tert-Butylbenzene
Concen: 4.480 ug/l
RT: 13.261 min Scan# 1928
Delta R.T. 0.047 min
Lab File: VD069544.D
Acq: 23 Jun 2021 14:49

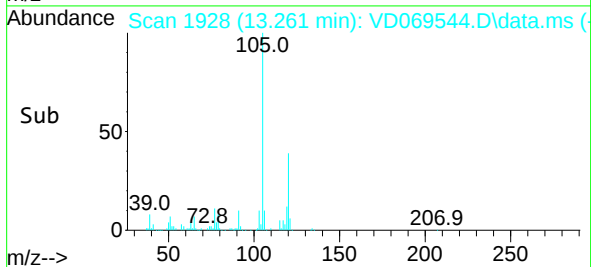
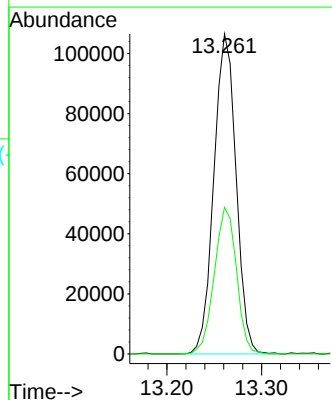
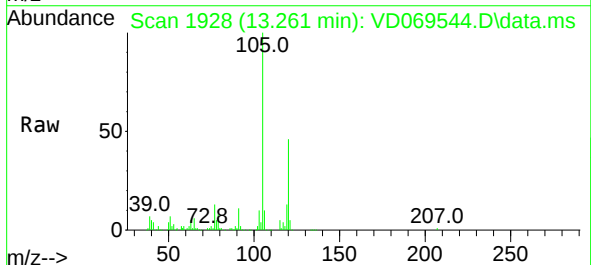
Instrument :
MSVOA_D
ClientSampled :

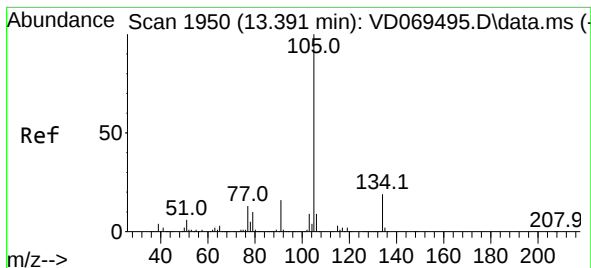
Tgt Ion:119 Resp: 24081
Ion Ratio Lower Upper
119 100
91 86.6 32.5 97.4
134 1.4 12.9 38.7#



#84
1,2,4-Trimethylbenzene
Concen: 16.820 ug/l
RT: 13.261 min Scan# 1928
Delta R.T. -0.000 min
Lab File: VD069544.D
Acq: 23 Jun 2021 14:49

Tgt Ion:105 Resp: 173506
Ion Ratio Lower Upper
105 100
120 45.8 22.6 67.8

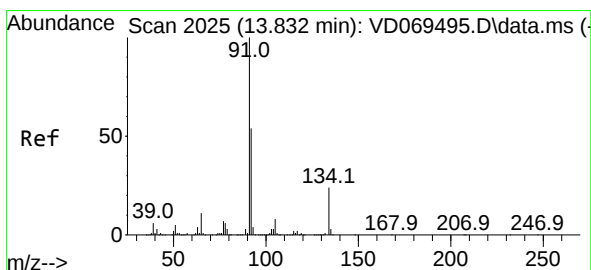
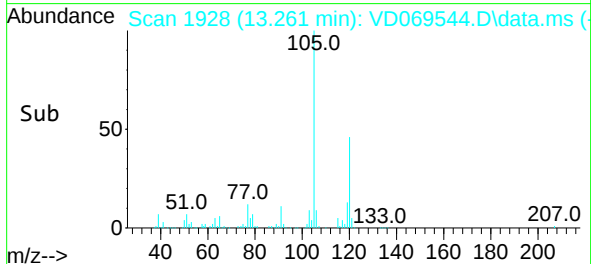
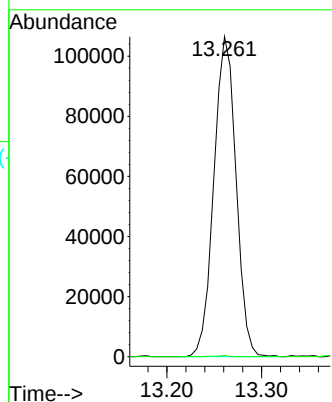
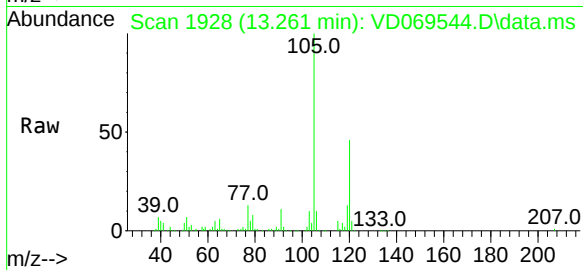




#85
 sec-Butylbenzene
 Concen: 13.411 ug/l
 RT: 13.261 min Scan# 1928
 Delta R.T. -0.130 min
 Lab File: VD069544.D
 Acq: 23 Jun 2021 14:49

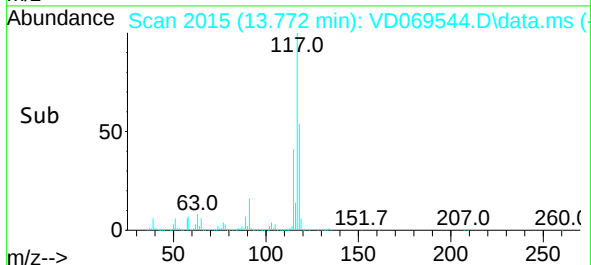
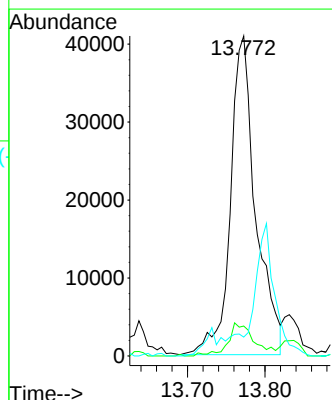
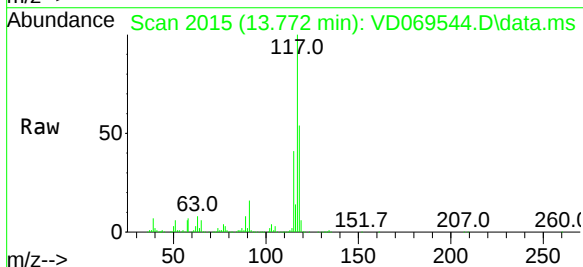
Instrument :
 MSVOA_D
 ClientSampled :

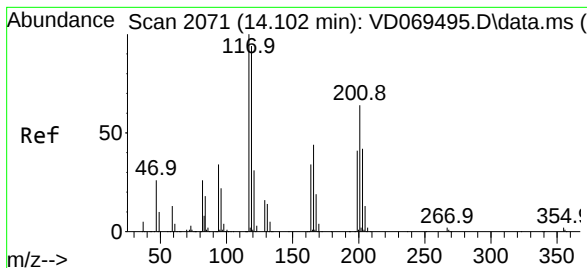
Tgt Ion:105 Resp: 173506
 Ion Ratio Lower Upper
 105 100
 134 0.2 9.5 28.5#



#89
 n-Butylbenzene
 Concen: 8.572 ug/l
 RT: 13.772 min Scan# 2015
 Delta R.T. -0.059 min
 Lab File: VD069544.D
 Acq: 23 Jun 2021 14:49

Tgt Ion: 91 Resp: 93126
 Ion Ratio Lower Upper
 91 100
 92 10.7 26.5 79.5#
 134 0.0 11.9 35.9#

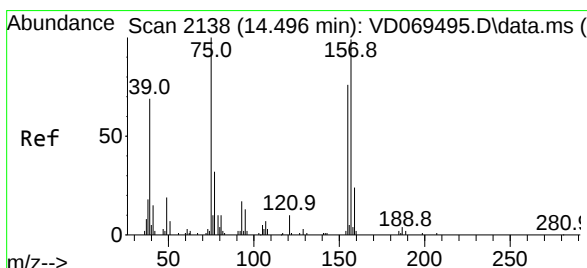
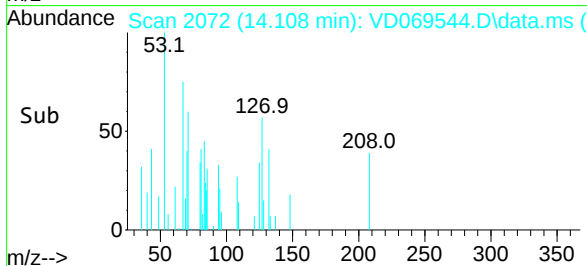
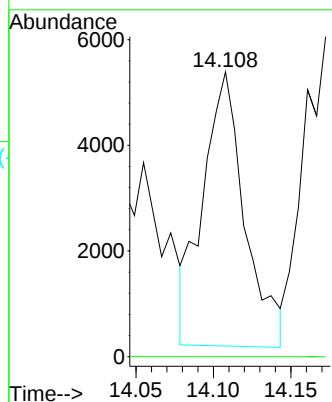
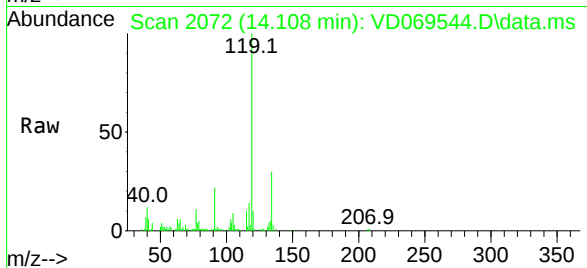




#90
Hexachloroethane
Concen: 4.579 ug/l
RT: 14.108 min Scan# 2072
Delta R.T. 0.005 min
Lab File: VD069544.D
Acq: 23 Jun 2021 14:49

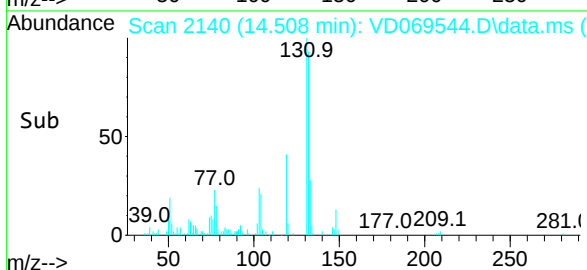
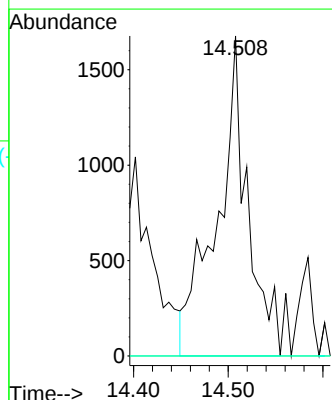
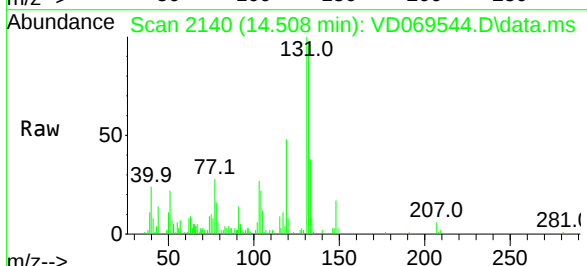
Instrument :
MSVOA_D
ClientSampleId :

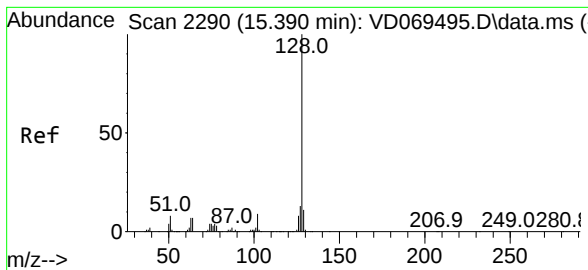
Tgt Ion:117 Resp: 9748
Ion Ratio Lower Upper
117 100
201 0.0 33.1 99.2#



#92
1,2-Dibromo-3-Chloropropane
Concen: 10.003 ug/l
RT: 14.508 min Scan# 2140
Delta R.T. 0.011 min
Lab File: VD069544.D
Acq: 23 Jun 2021 14:49

Tgt Ion: 75 Resp: 3759
Ion Ratio Lower Upper
75 100
155 0.0 39.4 118.1#
157 0.0 51.2 153.6#





#95
Naphthalene
Concen: 250.758 ug/l
RT: 15.390 min Scan# 2290
Delta R.T. 0.000 min
Lab File: VD069544.D
Acq: 23 Jun 2021 14:49

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion:128 Resp: 1478527
Ion Ratio Lower Upper
128 100
127 13.5 10.6 16.0
129 11.0 8.7 13.1

