

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD012521\
 Data File : VD068176.D
 Acq On : 25 Jan 2021 19:06
 Operator : VA/SY
 Sample : M1217-01RE
 Misc : 1.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jan 26 00:10:39 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D011921S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 19 13:19:08 2021
 Response via : Initial Calibration

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

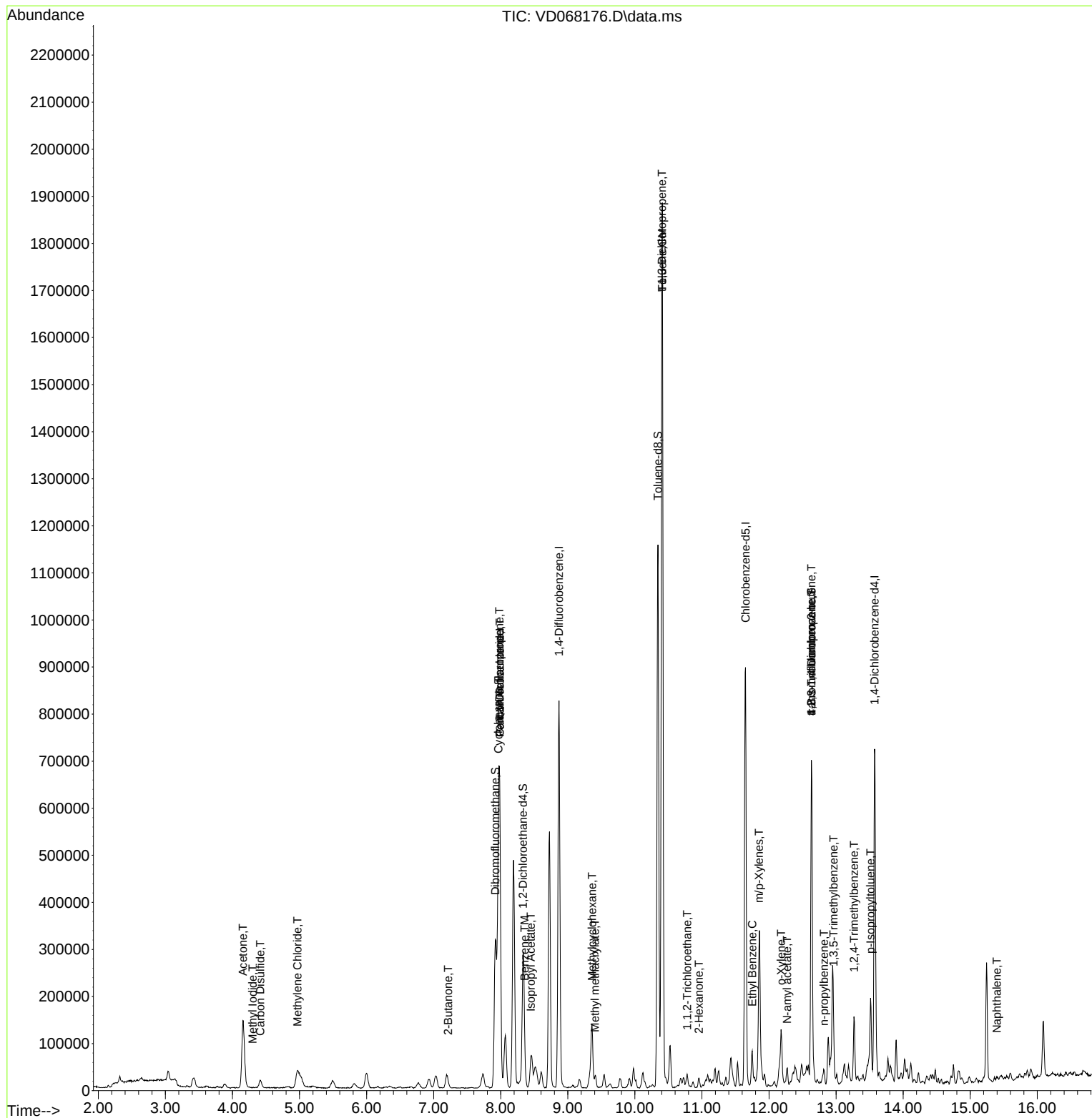
Internal Standards						
1) Pentafluorobenzene	7.985	168	415883	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.867	114	734744	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.650	117	542465	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.573	152	193868	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	230965	58.05	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 116.10%			
35) Dibromofluoromethane	7.920	113	227925	56.11	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 112.22%			
50) Toluene-d8	10.344	98	808735	49.77	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 99.54%			
62) 4-Bromofluorobenzene	12.632	95	229382	39.20	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 78.40%			
Target Compounds						Qvalue
10) Methyl Iodide	4.303	142	81	3.17	ug/l #	38
11) Tert butyl alcohol	5.215	59	7292	Below Cal	#	74
16) Acetone	4.156	43	252596	355.59	ug/l	93
17) Carbon Disulfide	4.415	76	33067	2.25	ug/l	97
20) Methylene Chloride	4.968	84	26084	1.36	ug/l	93
25) 2-Butanone	7.214	43	2393	2.24	ug/l #	84
31) Cyclohexane	7.967	56	81402	9.45	ug/l #	53
36) 1,1-Dichloropropene	7.979	75	32044	4.32	ug/l #	48
38) Carbon Tetrachloride	7.985	117	40677	5.87	ug/l #	17
39) Methylcyclohexane	9.361	83	56497	5.83	ug/l	96
40) Benzene	8.356	78	25783	1.24	ug/l	96
43) Isopropyl Acetate	8.450	43	34082	6.24	ug/l #	46
48) Methyl methacrylate	9.403	41	4695	1.73	ug/l #	10
52) Toluene	10.408	92	853526	63.23	ug/l	97
53) t-1,3-Dichloropropene	10.403	75	9108	1.30	ug/l #	1
55) 1,1,2-Trichloroethane	10.779	97	10357	2.84	ug/l #	25
59) 2-Hexanone	10.955	43	9483	5.39	ug/l #	21
67) Ethyl Benzene	11.750	91	50999	2.39	ug/l	95
68) m/p-Xylenes	11.850	106	62562	7.77	ug/l	93
69) o-Xylene	12.179	106	28048	3.75	ug/l	97
74) N-amyl acetate	12.267	43	9013	2.69	ug/l #	58
76) 1,2,3-Trichloropropane	12.632	75	113589	60.60	ug/l #	100
78) n-propylbenzene	12.820	91	24227	1.27	ug/l	98
80) 1,3,5-Trimethylbenzene	12.961	105	25294	1.88	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.632	75	113589	122.62	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.267	105	78644	5.90	ug/l	99
86) p-Isopropyltoluene	13.514	119	95727	6.61	ug/l	96
95) Naphthalene	15.396	128	10308	1.41	ug/l	98

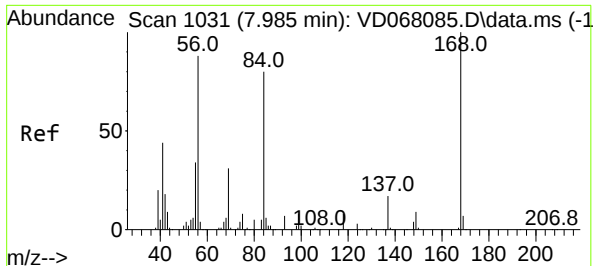
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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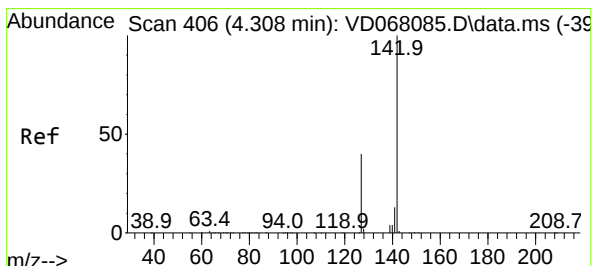
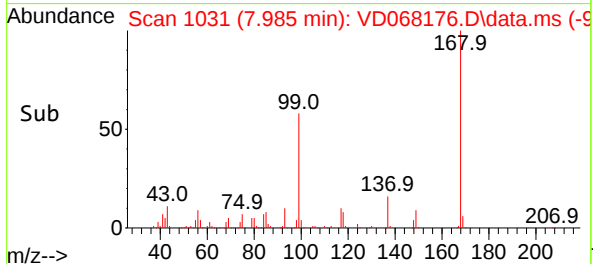
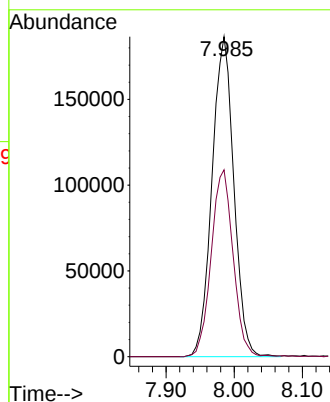
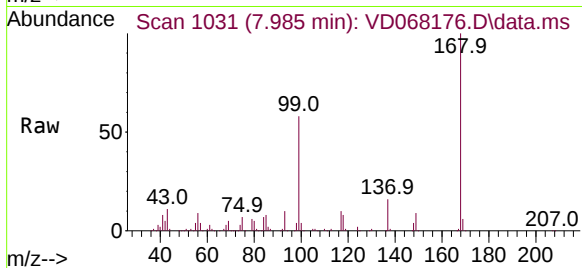




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. 0.000 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

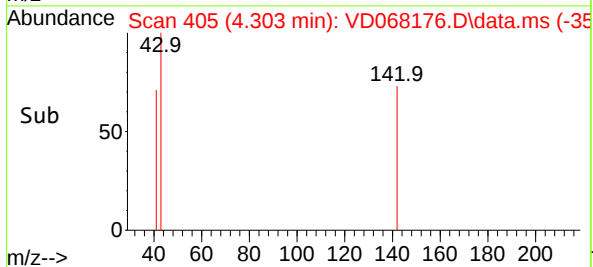
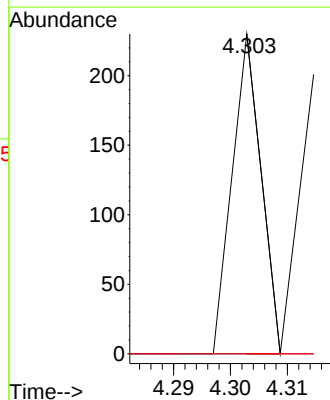
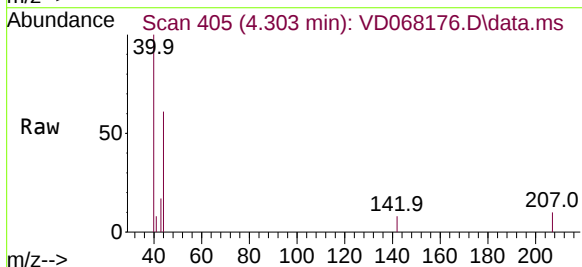
Instrument :
MSVOA_D
ClientSampled :

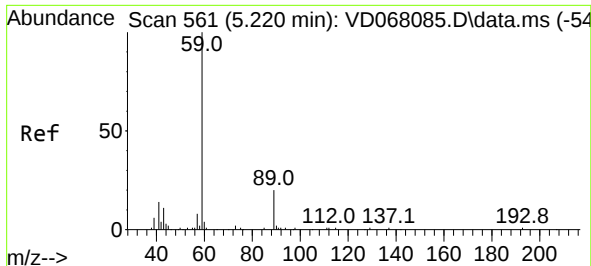
Tgt Ion:168 Resp: 415883
Ion Ratio Lower Upper
168 100
99 58.4 43.5 65.3



#10
Methyl Iodide
Concen: 3.17 ug/l
RT: 4.303 min Scan# 405
Delta R.T. -0.005 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

Tgt Ion:142 Resp: 81
Ion Ratio Lower Upper
142 100
127 0.0 37.9 56.9#
141 0.0 11.5 17.3#



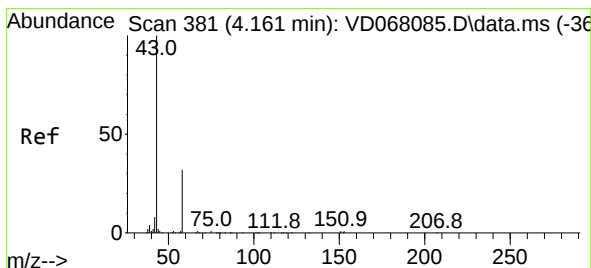
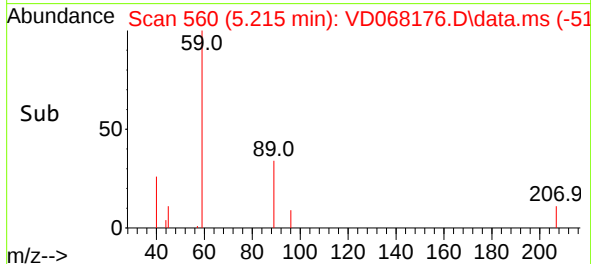
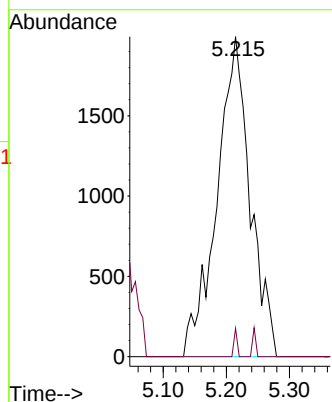
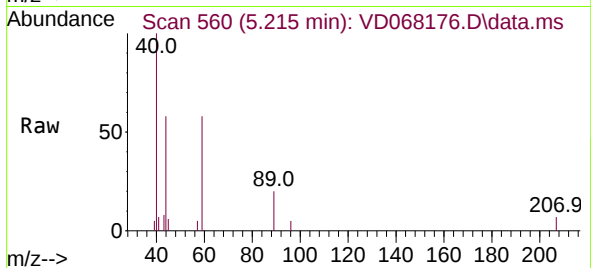


#11

Tert butyl alcohol
Concen: Below Cal
RT: 5.215 min Scan# 560
Delta R.T. -0.005 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

Instrument :
MSVOA_D
ClientSampleId :

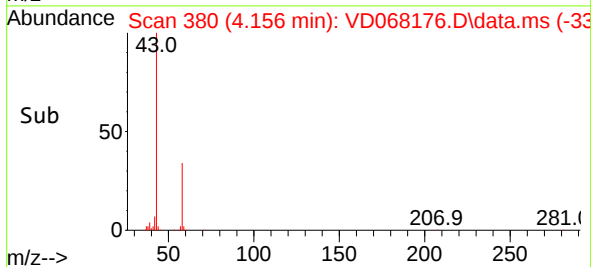
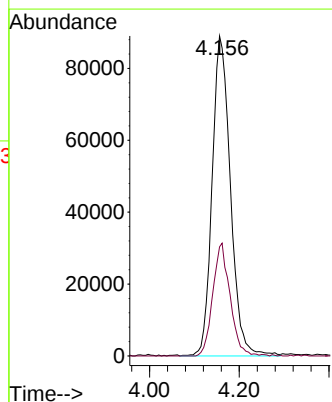
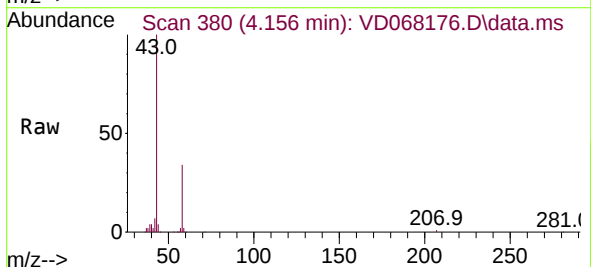
Tgt Ion: 59 Resp: 7292
Ion Ratio Lower Upper
59 100
57 0.0 7.4 11.2#

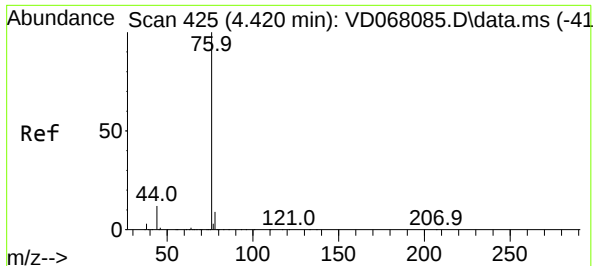


#16

Acetone
Concen: 355.59 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.006 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

Tgt Ion: 43 Resp: 252596
Ion Ratio Lower Upper
43 100
58 34.1 24.2 36.4

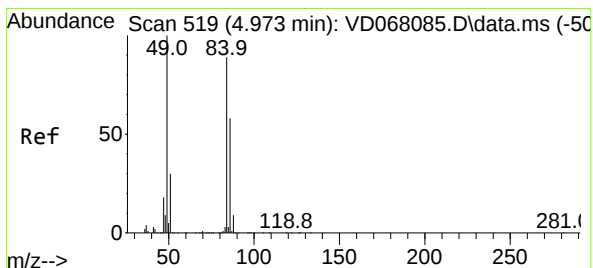
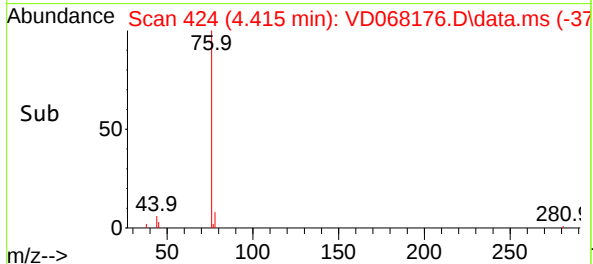
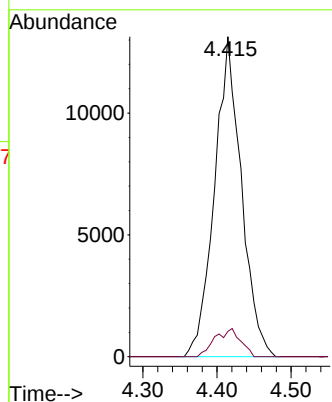
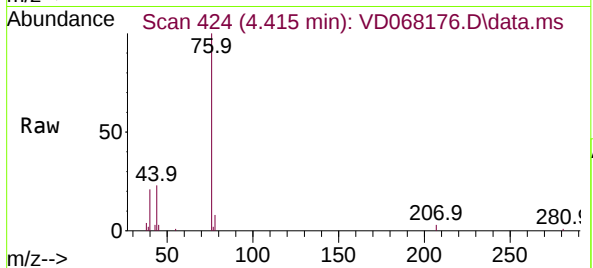




#17
Carbon Disulfide
Concen: 2.25 ug/l
RT: 4.415 min Scan# 424
Delta R.T. -0.006 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

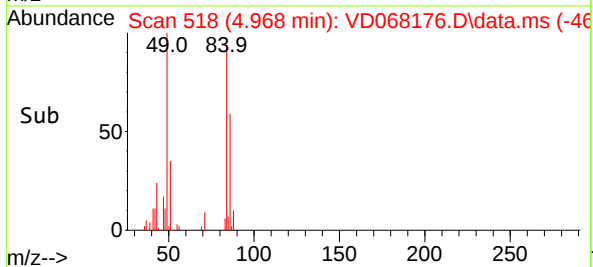
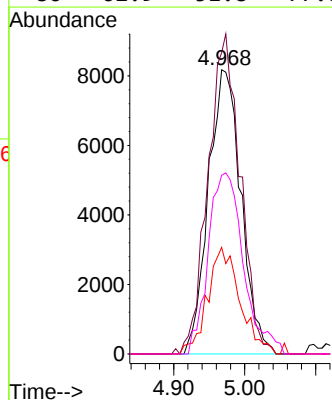
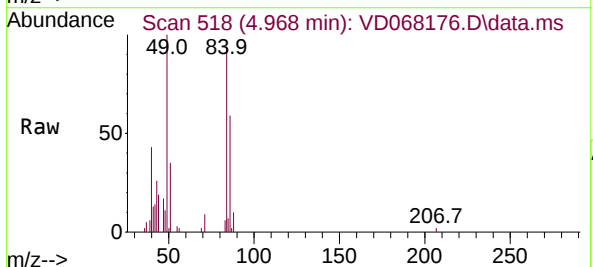
Instrument :
MSVOA_D
ClientSampleId :

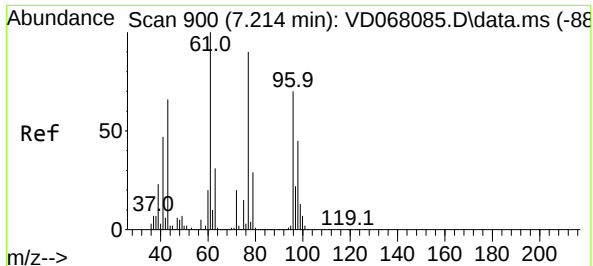
Tgt Ion: 76 Resp: 33067
Ion Ratio Lower Upper
76 100
78 7.9 7.3 10.9



#20
Methylene Chloride
Concen: 1.36 ug/l
RT: 4.968 min Scan# 518
Delta R.T. -0.005 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

Tgt Ion: 84 Resp: 26084
Ion Ratio Lower Upper
84 100
49 106.0 77.4 116.2
51 37.5 26.1 39.1
86 62.9 51.8 77.8

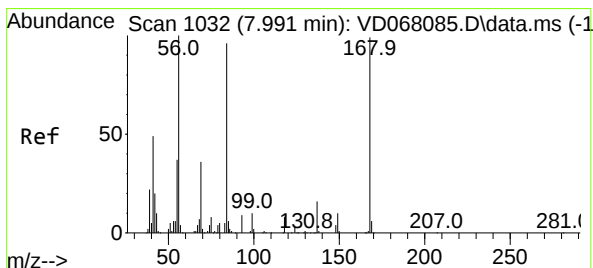
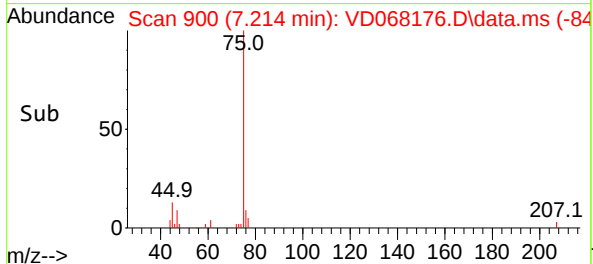
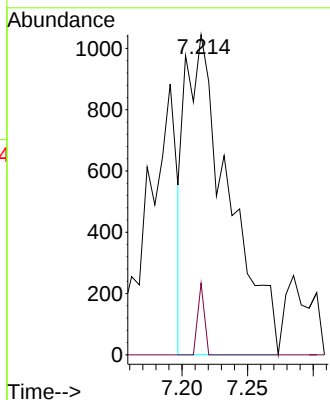
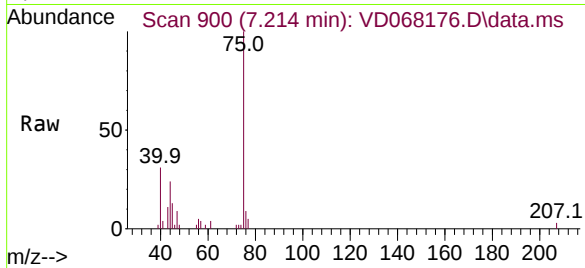




#25
2-Butanone
Concen: 2.24 ug/l
RT: 7.214 min Scan# 900
Delta R.T. 0.000 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

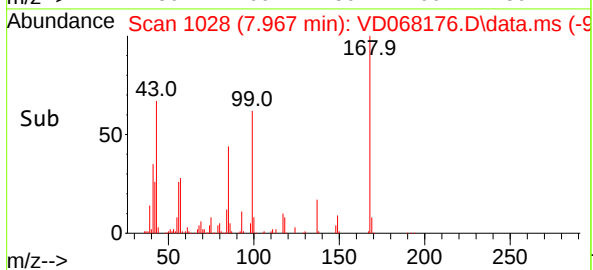
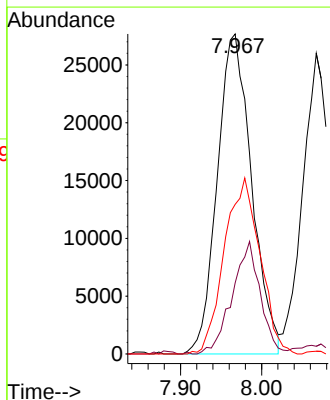
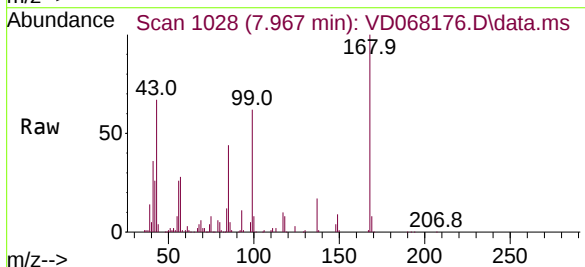
Instrument :
MSVOA_D
ClientSampled :

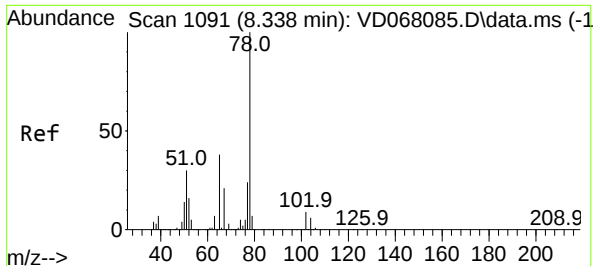
Tgt Ion: 43 Resp: 2393
Ion Ratio Lower Upper
43 100
72 22.4 25.1 37.7#



#31
Cyclohexane
Concen: 9.45 ug/l
RT: 7.967 min Scan# 1028
Delta R.T. -0.023 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

Tgt Ion: 56 Resp: 81402
Ion Ratio Lower Upper
56 100
69 22.2 30.1 45.1#
84 46.7 82.1 123.1#

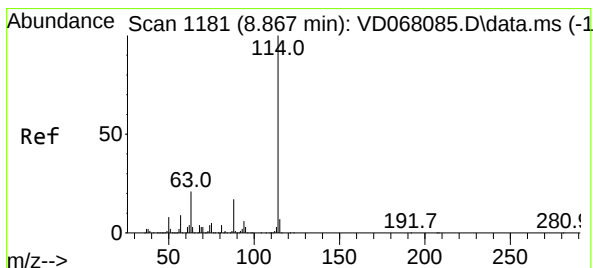
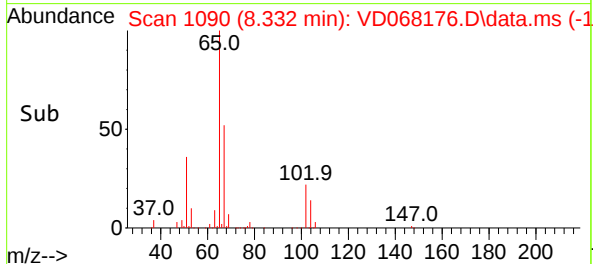
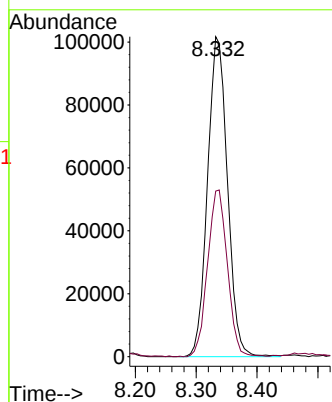
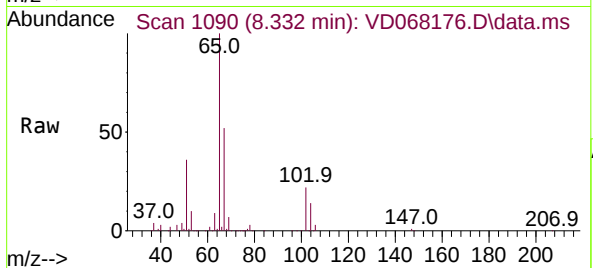




#33
1,2-Dichloroethane-d4
Concen: 58.05 ug/l
RT: 8.332 min Scan# 1090
Delta R.T. -0.006 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

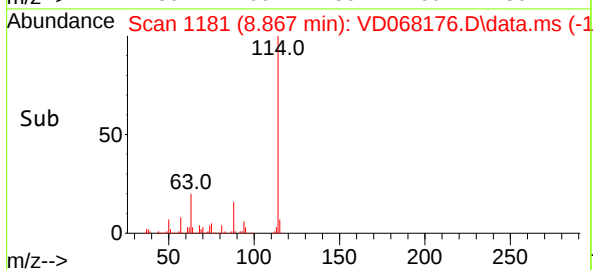
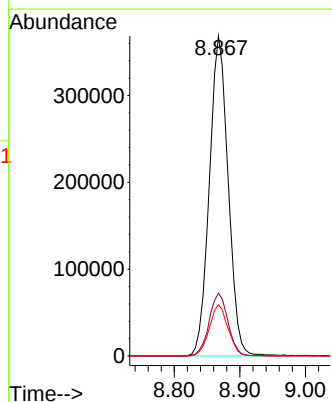
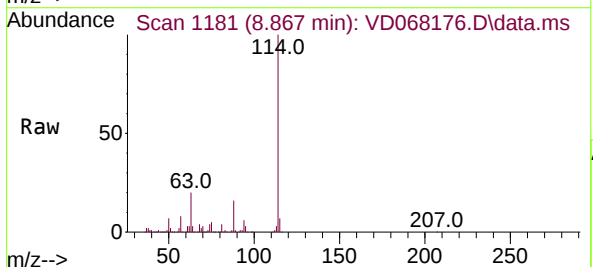
Instrument :
MSVOA_D
ClientSampled :

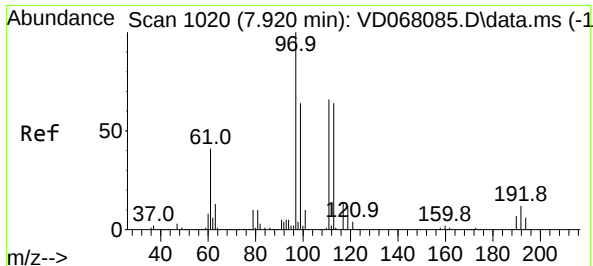
Tgt Ion: 65 Resp: 230965
Ion Ratio Lower Upper
65 100
67 51.8 0.0 105.0



#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.867 min Scan# 1181
Delta R.T. 0.000 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

Tgt Ion: 114 Resp: 734744
Ion Ratio Lower Upper
114 100
63 19.6 0.0 34.8
88 16.0 0.0 31.6

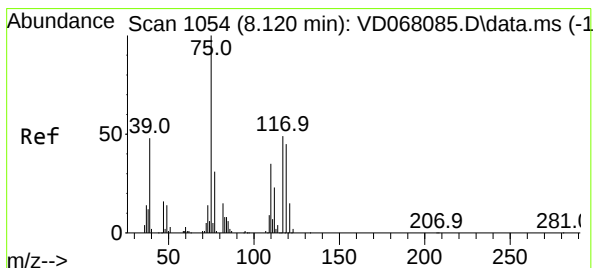
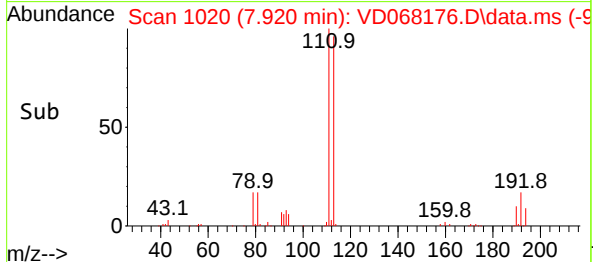
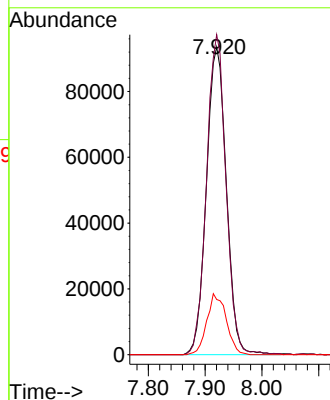
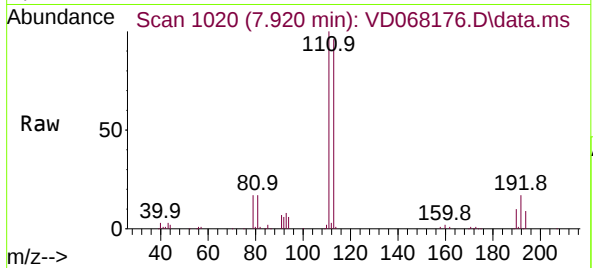




#35
Dibromofluoromethane
Concen: 56.11 ug/l
RT: 7.920 min Scan# 1020
Delta R.T. 0.000 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

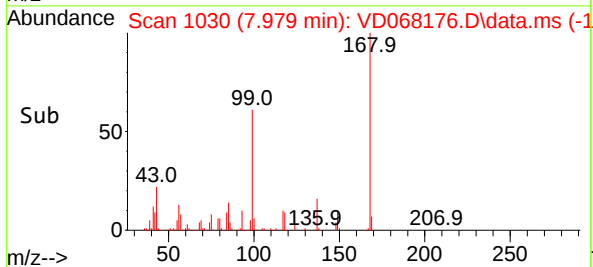
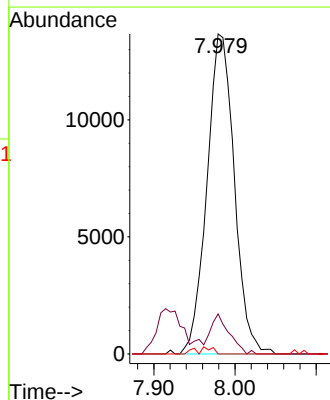
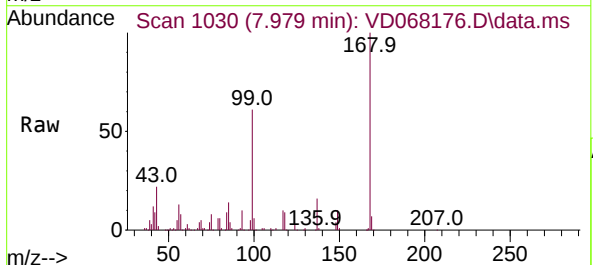
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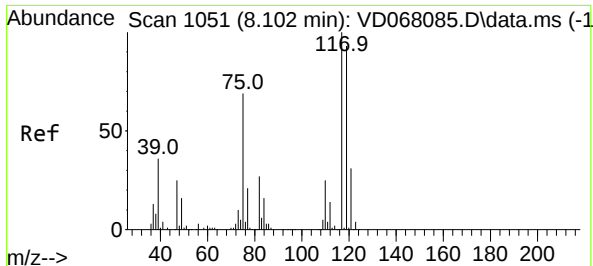
Tgt Ion:113 Resp: 227925
Ion Ratio Lower Upper
113 100
111 101.4 81.4 122.0
192 19.3 16.1 24.1



#36
1,1-Dichloropropene
Concen: 4.32 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.141 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

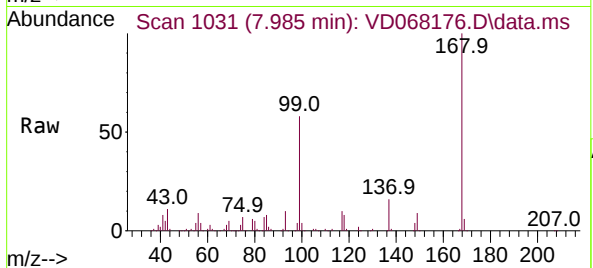
Tgt Ion: 75 Resp: 32044
Ion Ratio Lower Upper
75 100
110 8.5 19.4 58.2#
77 0.8 25.3 37.9#



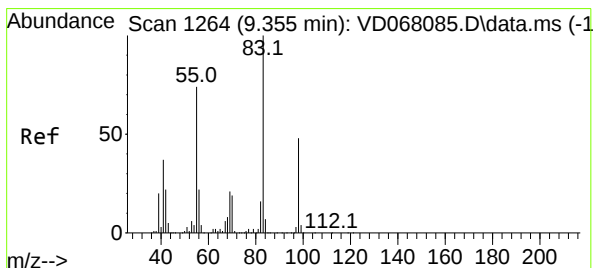
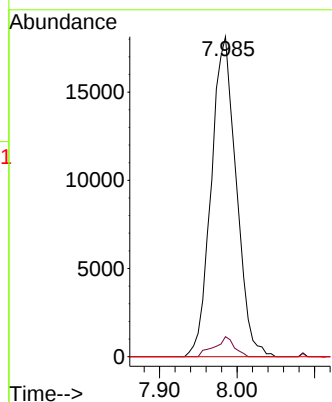
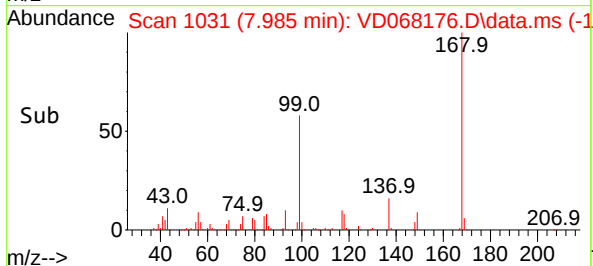


#38
Carbon Tetrachloride
Concen: 5.87 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. -0.117 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

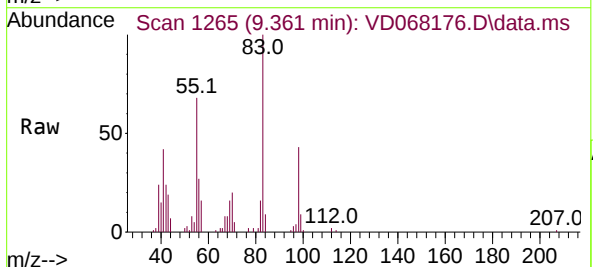
Instrument :
MSVOA_D
ClientSampleId :



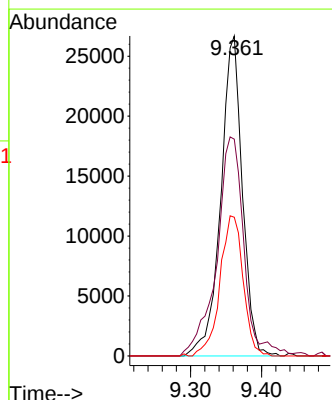
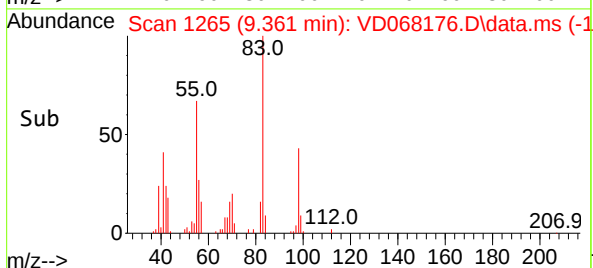
Tgt Ion:117 Resp: 40677
Ion Ratio Lower Upper
117 100
119 6.2 77.3 115.9#
121 0.0 24.7 37.1#

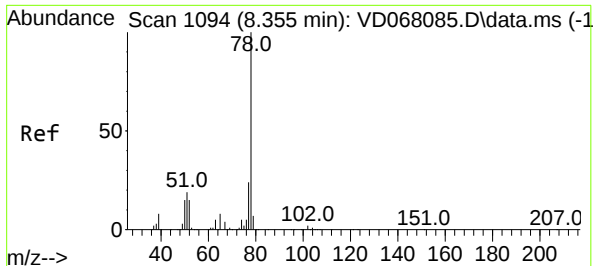


#39
Methylcyclohexane
Concen: 5.83 ug/l
RT: 9.361 min Scan# 1265
Delta R.T. 0.006 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06



Tgt Ion: 83 Resp: 56497
Ion Ratio Lower Upper
83 100
55 67.7 55.2 82.8
98 43.4 39.1 58.7

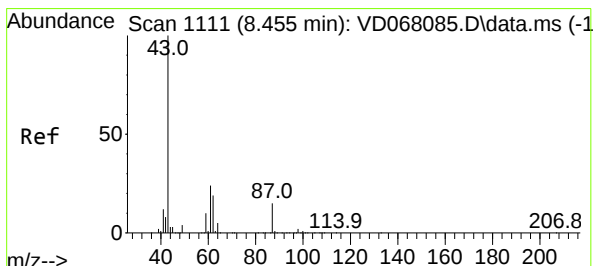
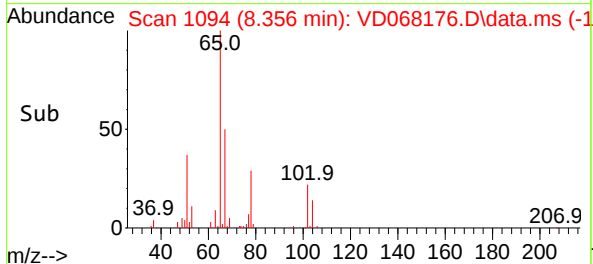
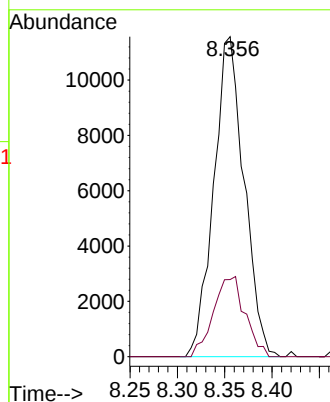
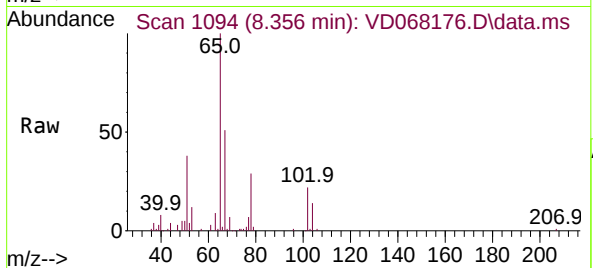




#40
Benzene
Concen: 1.24 ug/l
RT: 8.356 min Scan# 1094
Delta R.T. 0.001 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

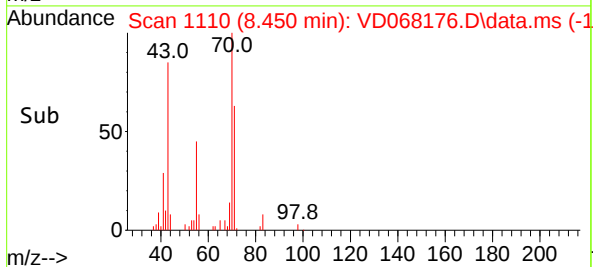
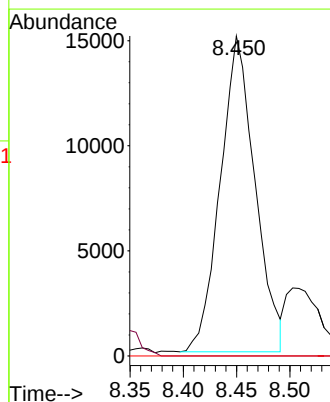
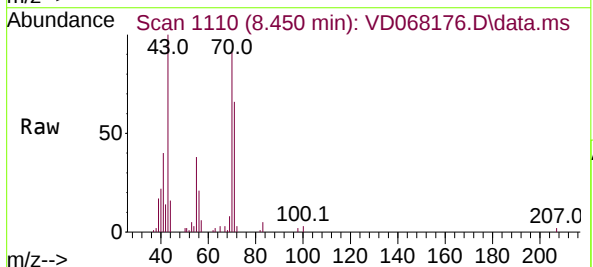
Instrument :
MSVOA_D
ClientSampled :

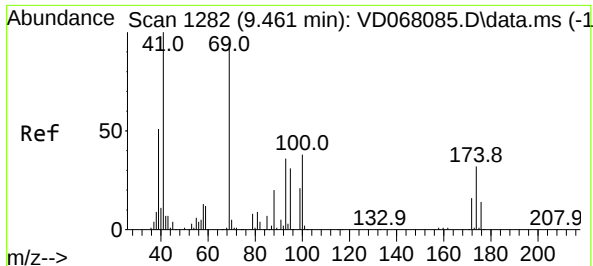
Tgt Ion: 78 Resp: 25783
Ion Ratio Lower Upper
78 100
77 24.1 17.8 26.6



#43
Isopropyl Acetate
Concen: 6.24 ug/l
RT: 8.450 min Scan# 1110
Delta R.T. -0.005 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

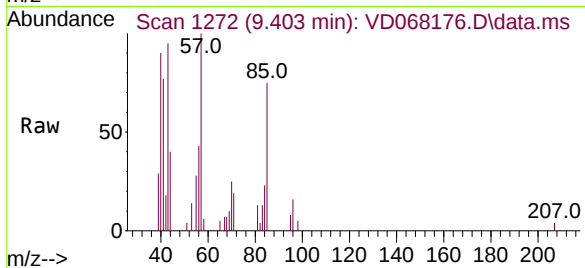
Tgt Ion: 43 Resp: 34082
Ion Ratio Lower Upper
43 100
61 0.0 28.7 43.1#
87 0.0 13.9 20.9#



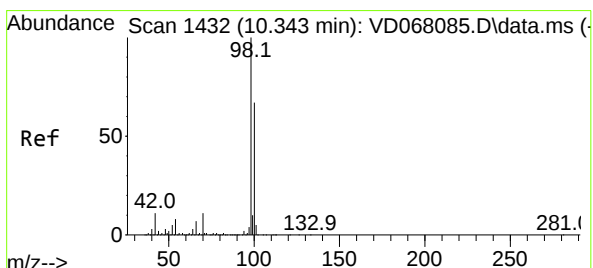
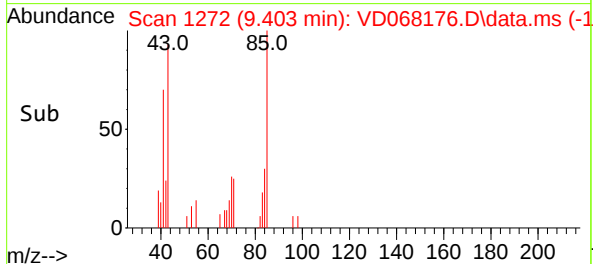
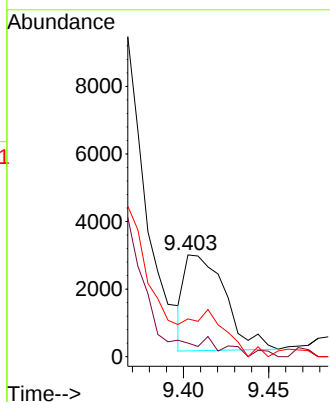


#48
Methyl methacrylate
Concen: 1.73 ug/l
RT: 9.403 min Scan# 1272
Delta R.T. -0.058 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

Instrument :
MSVOA_D
ClientSampleId :

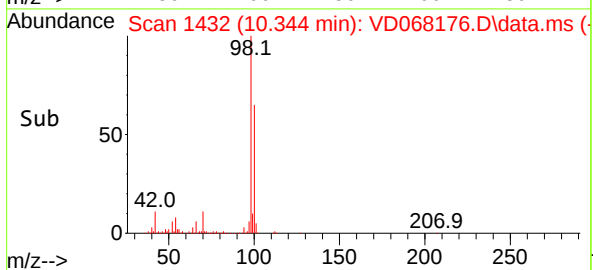
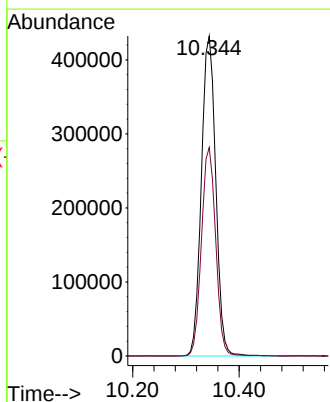
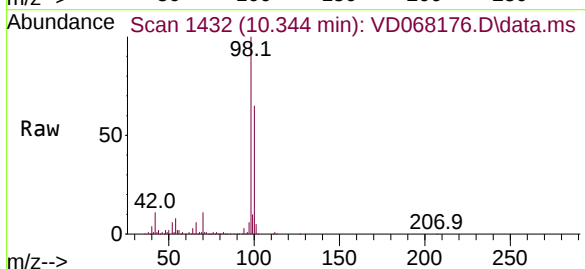


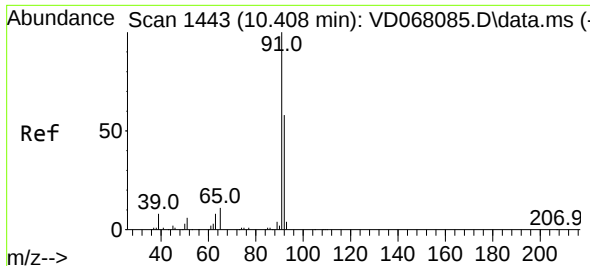
Tgt Ion: 41 Resp: 4695
Ion Ratio Lower Upper
41 100
69 0.0 77.1 115.7#
39 0.0 41.5 62.3#



#50
Toluene-d8
Concen: 49.77 ug/l
RT: 10.344 min Scan# 1432
Delta R.T. 0.000 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

Tgt Ion: 98 Resp: 808735
Ion Ratio Lower Upper
98 100
100 64.4 53.0 79.4

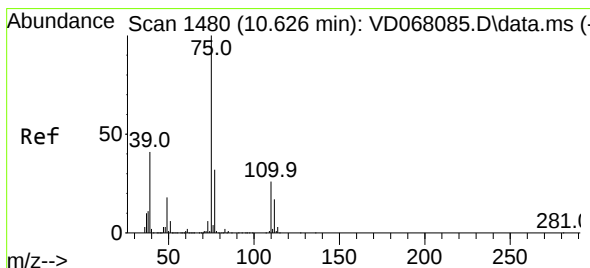
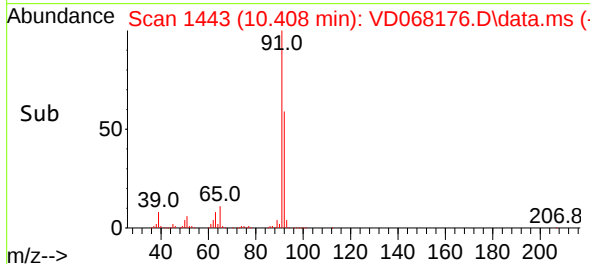
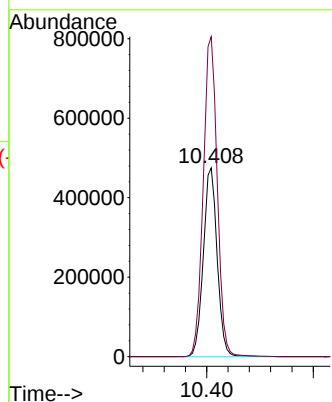
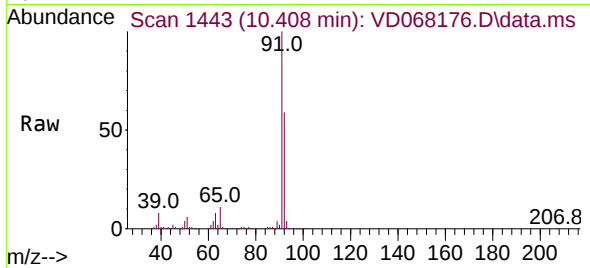




#52
Toluene
Concen: 63.23 ug/l
RT: 10.408 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

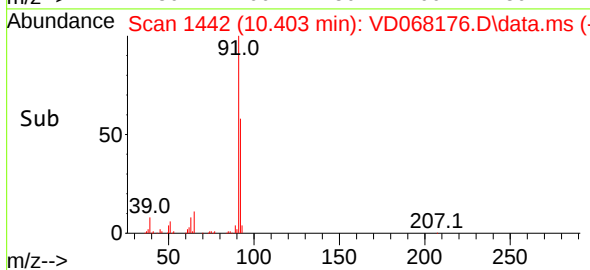
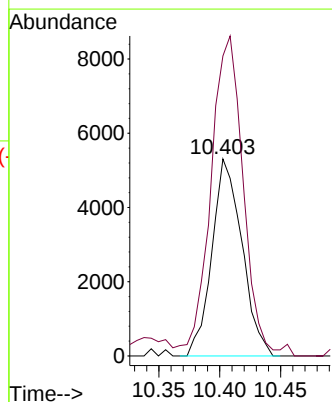
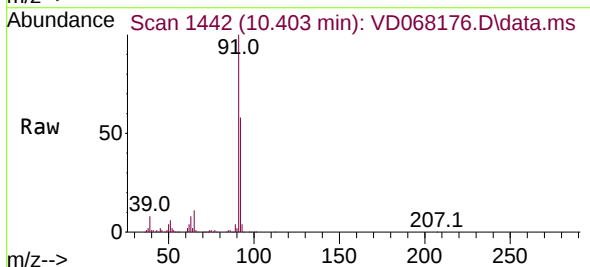
Instrument :
MSVOA_D
ClientSampleId :

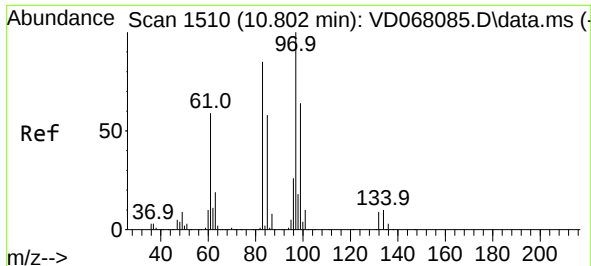
Tgt Ion: 92 Resp: 853526
Ion Ratio Lower Upper
92 100
91 172.1 134.1 201.1



#53
t-1,3-Dichloropropene
Concen: 1.30 ug/l
RT: 10.403 min Scan# 1442
Delta R.T. -0.223 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

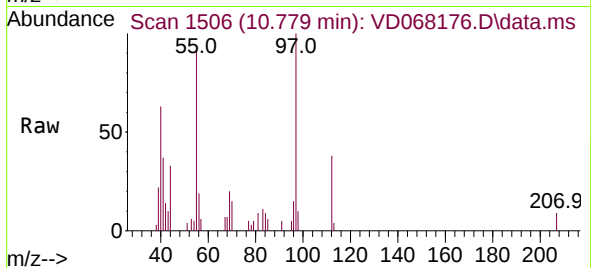
Tgt Ion: 75 Resp: 9108
Ion Ratio Lower Upper
75 100
77 149.3 25.0 37.4#



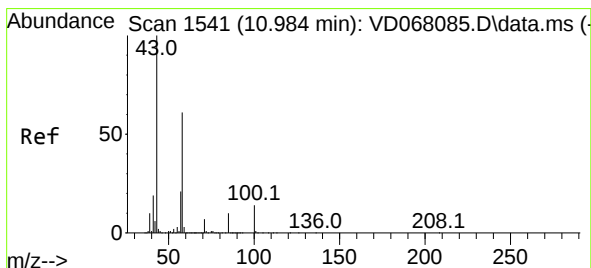
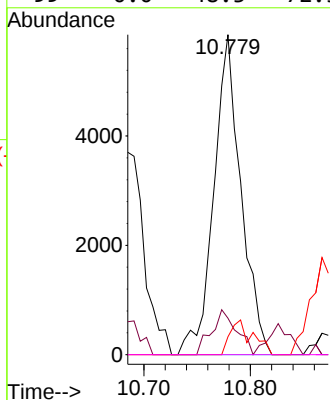
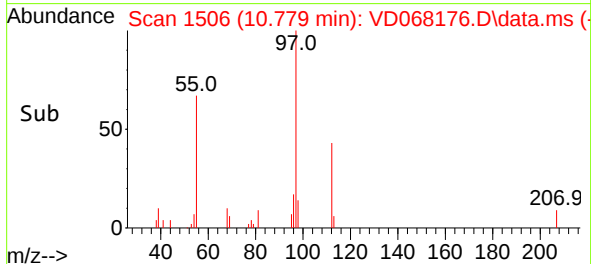


#55
1,1,2-Trichloroethane
Concen: 2.84 ug/l
RT: 10.779 min Scan# 1506
Delta R.T. -0.023 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

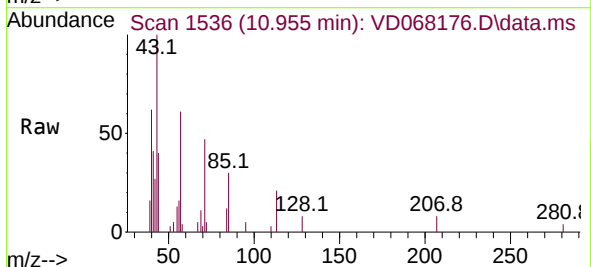
Instrument :
MSVOA_D
ClientSampled :



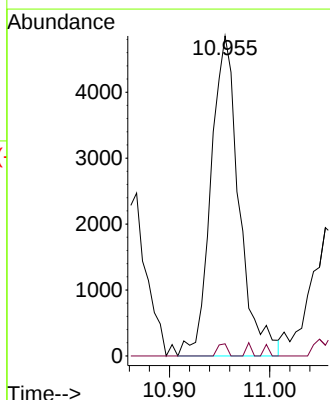
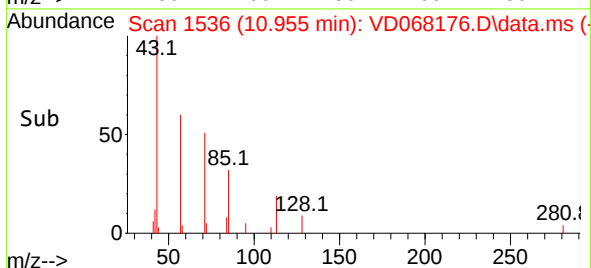
Tgt Ion: 97	Resp: 10357
Ion Ratio	Lower Upper
97 100	
83 11.4	61.8 92.6#
85 5.6	42.2 63.2#
99 0.0	48.3 72.5#

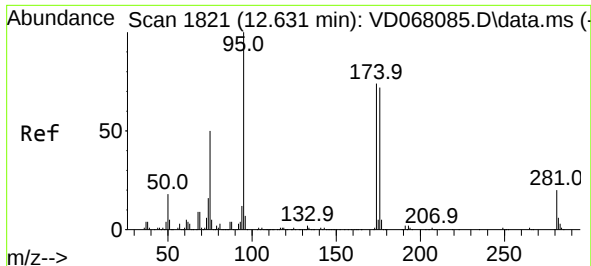


#59
2-Hexanone
Concen: 5.39 ug/l
RT: 10.955 min Scan# 1536
Delta R.T. -0.029 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06



Tgt Ion: 43	Resp: 9483
Ion Ratio	Lower Upper
43 100	
58 1.3	31.0 93.0#

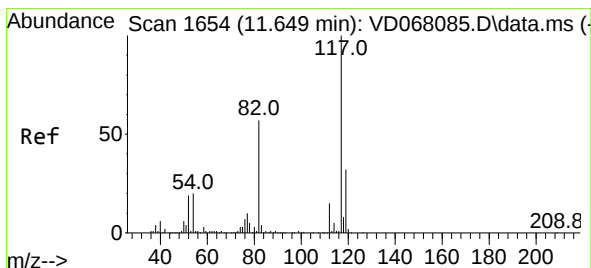
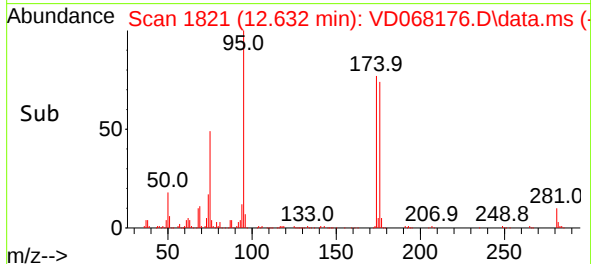
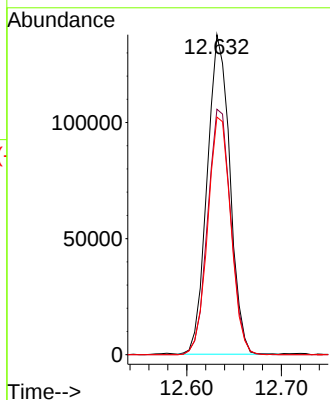
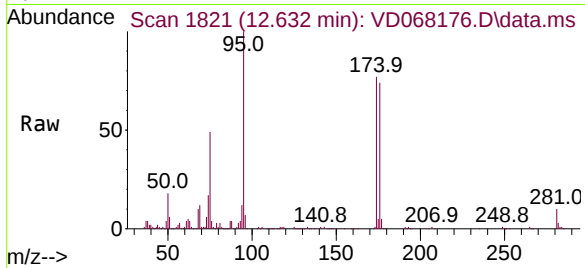




#62
4-Bromofluorobenzene
Concen: 39.20 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. 0.000 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

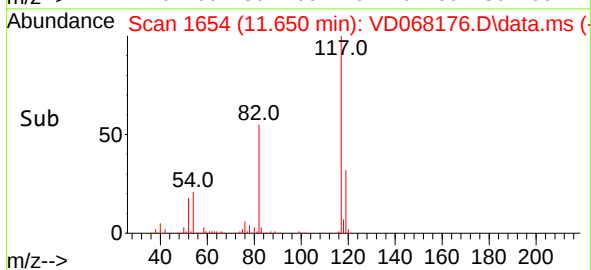
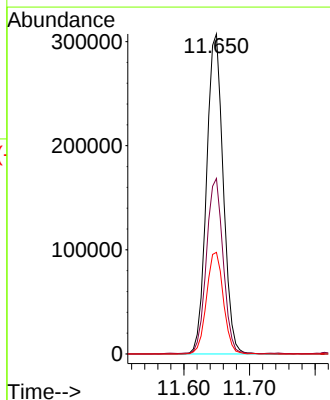
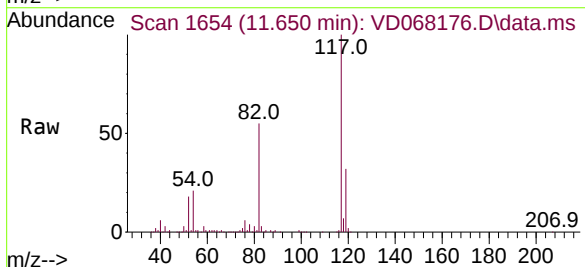
Instrument :
MSVOA_D
ClientSampleId :

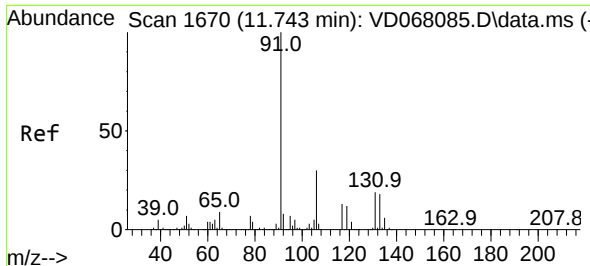
Tgt Ion: 95 Resp: 229382
Ion Ratio Lower Upper
95 100
174 78.4 0.0 172.4
176 75.5 0.0 168.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.650 min Scan# 1654
Delta R.T. 0.001 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

Tgt Ion:117 Resp: 542465
Ion Ratio Lower Upper
117 100
82 54.7 41.4 62.0
119 31.7 26.1 39.1

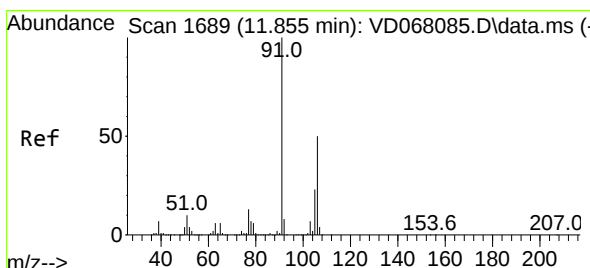
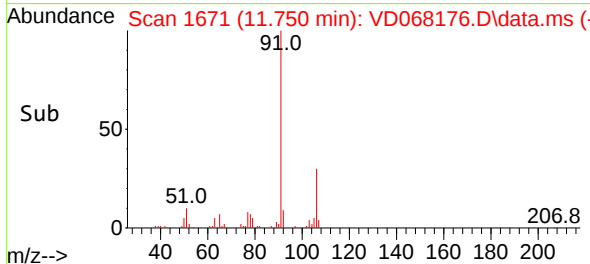
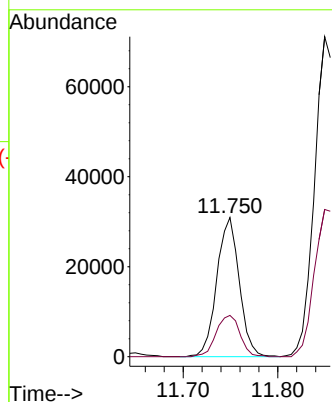
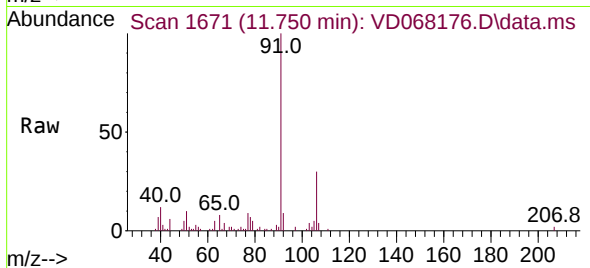




#67
Ethyl Benzene
Concen: 2.39 ug/l
RT: 11.750 min Scan# 1671
Delta R.T. 0.006 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

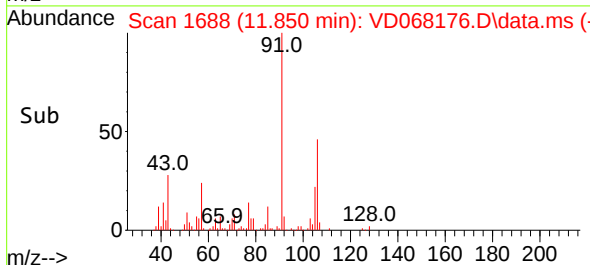
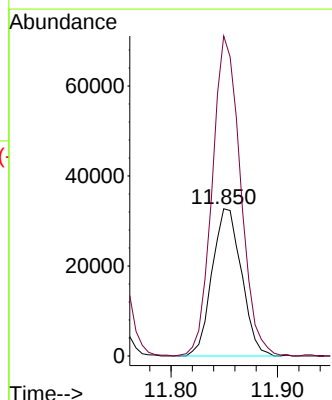
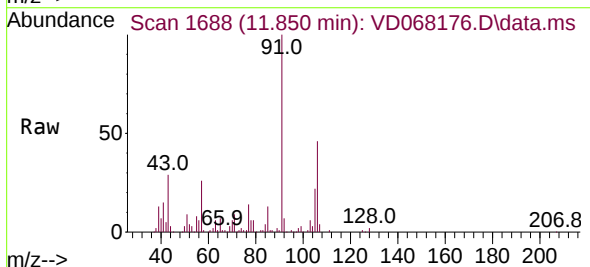
Instrument :
MSVOA_D
ClientSampled :

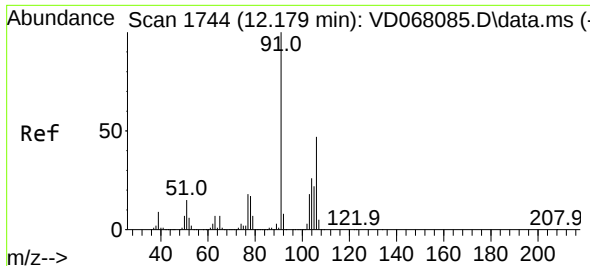
Tgt Ion: 91 Resp: 50999
Ion Ratio Lower Upper
91 100
106 29.7 25.9 38.9



#68
m/p-Xylenes
Concen: 7.77 ug/l
RT: 11.850 min Scan# 1688
Delta R.T. -0.005 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

Tgt Ion: 106 Resp: 62562
Ion Ratio Lower Upper
106 100
91 209.5 159.1 238.7

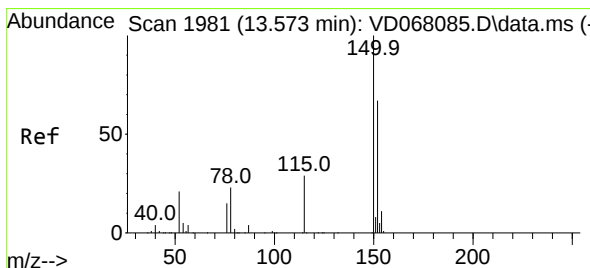
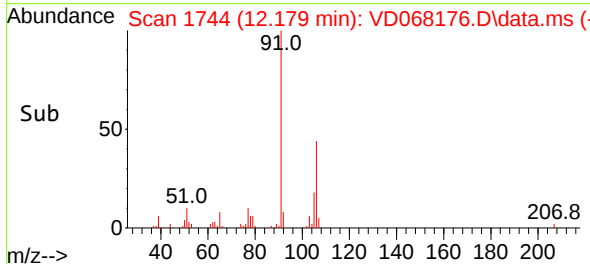
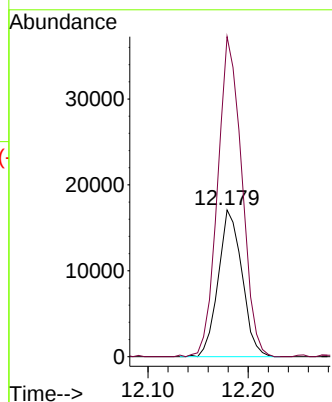
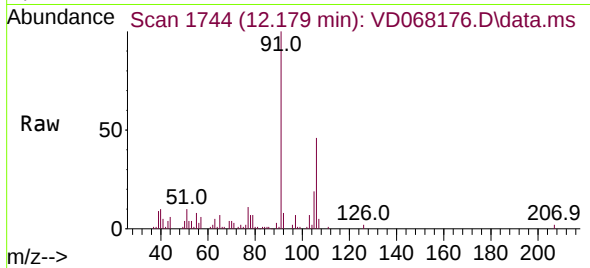




#69
o-Xylene
Concen: 3.75 ug/l
RT: 12.179 min Scan# 1744
Delta R.T. 0.000 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

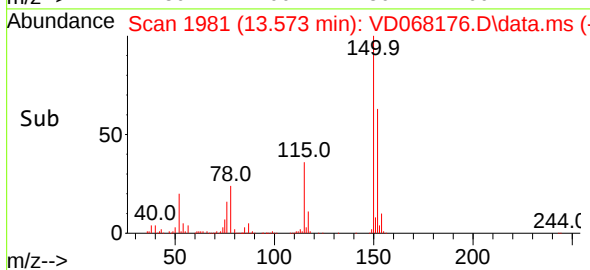
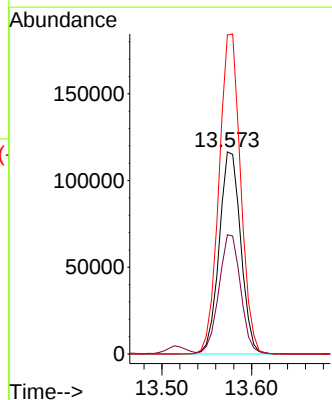
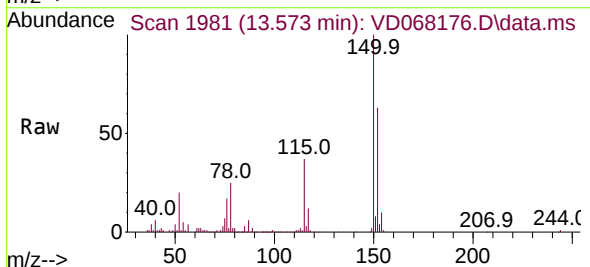
Instrument :
MSVOA_D
ClientSampled :

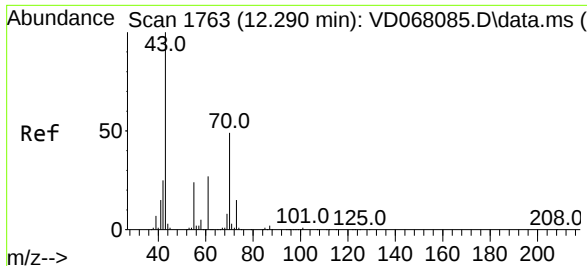
Tgt Ion:106 Resp: 28048
Ion Ratio Lower Upper
106 100
91 222.6 108.7 325.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.573 min Scan# 1981
Delta R.T. 0.000 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

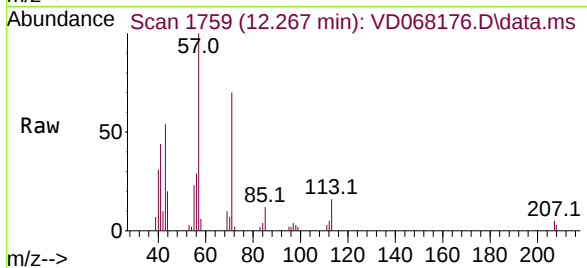
Tgt Ion:152 Resp: 193868
Ion Ratio Lower Upper
152 100
115 59.7 28.9 86.8
150 159.2 0.0 344.4



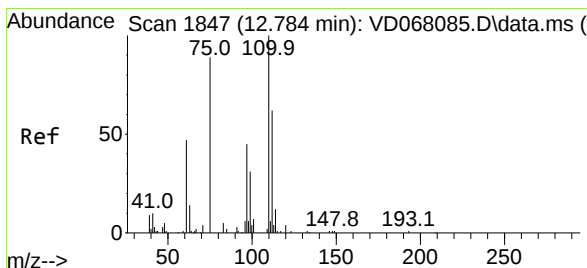
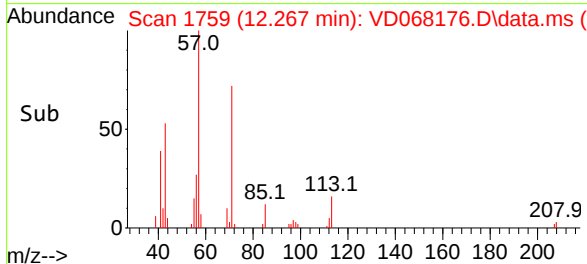
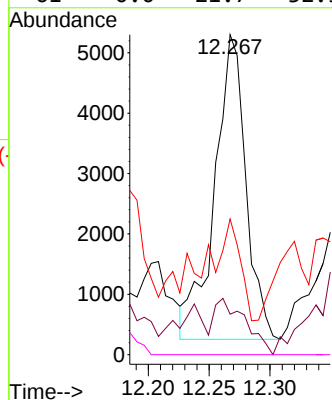


#74
N-amy1 acetate
Concen: 2.69 ug/l
RT: 12.267 min Scan# 1759
Delta R.T. -0.023 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

Instrument :
MSVOA_D
ClientSampleId :

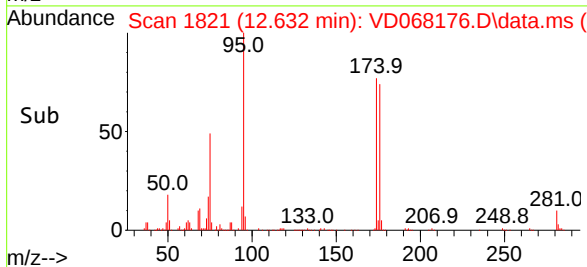
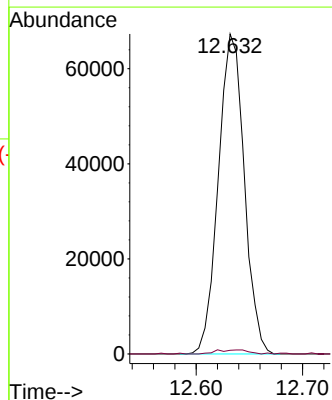
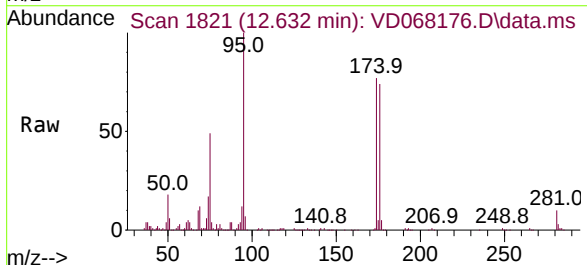


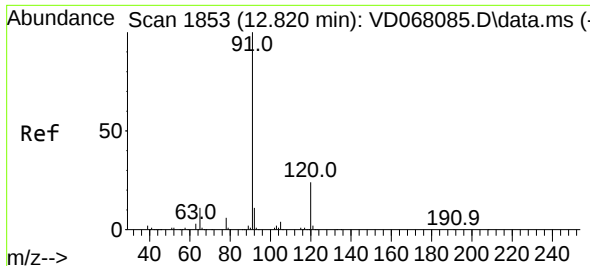
Tgt Ion: 43 Resp: 9013
Ion Ratio Lower Upper
43 100
70 18.4 41.8 62.8#
55 41.6 24.2 36.4#
61 0.0 21.7 32.5#



#76
1,2,3-Trichloropropane
Concen: 60.60 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. -0.153 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

Tgt Ion: 75 Resp: 113589
Ion Ratio Lower Upper
75 100
77 1.6 0.0 0.0#

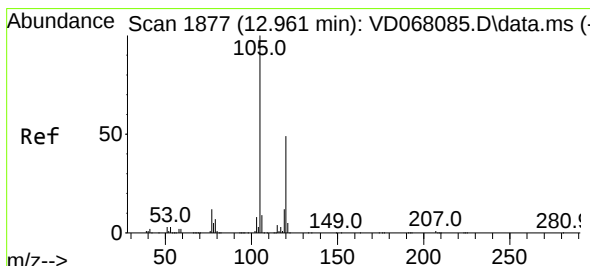
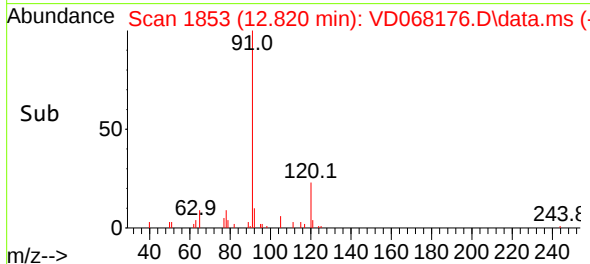
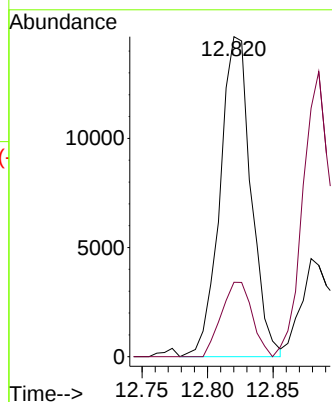
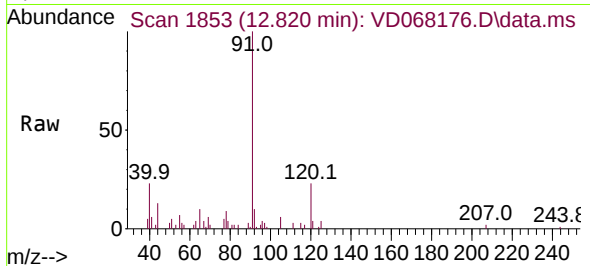




#78
n-propylbenzene
Concen: 1.27 ug/l
RT: 12.820 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

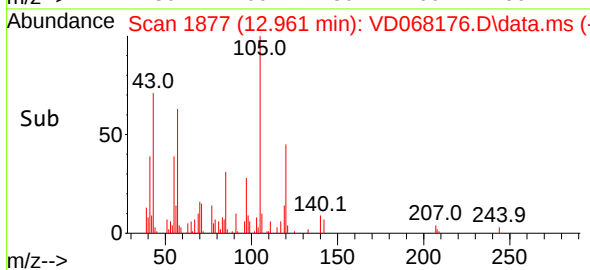
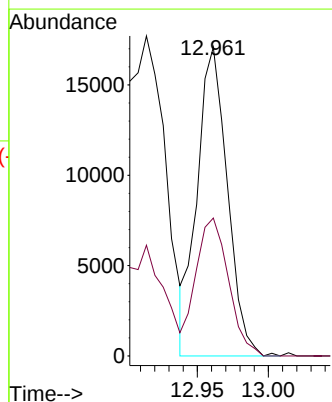
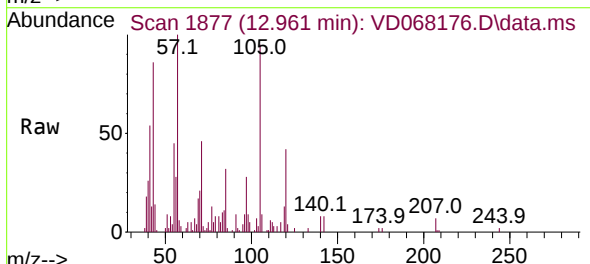
Instrument :
MSVOA_D
ClientSampled :

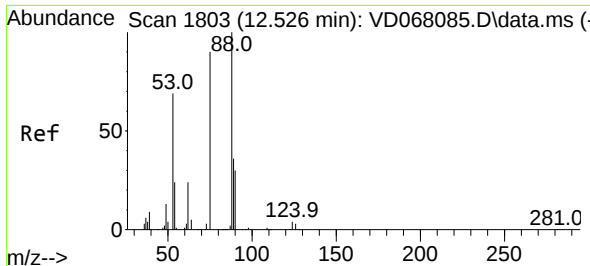
Tgt Ion: 91 Resp: 24227
Ion Ratio Lower Upper
91 100
120 22.9 12.0 36.0



#80
1,3,5-Trimethylbenzene
Concen: 1.88 ug/l
RT: 12.961 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

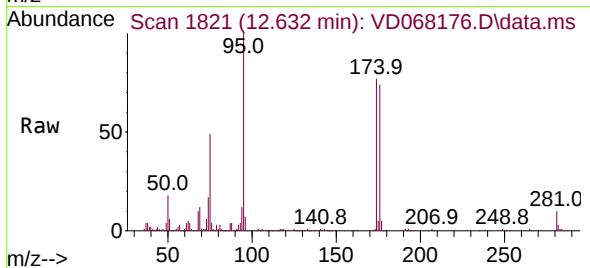
Tgt Ion: 105 Resp: 25294
Ion Ratio Lower Upper
105 100
120 48.4 24.2 72.6



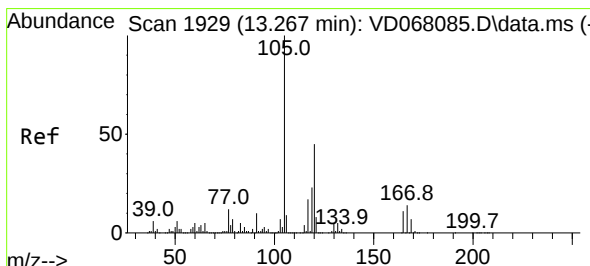
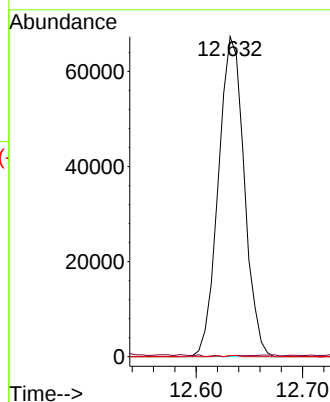
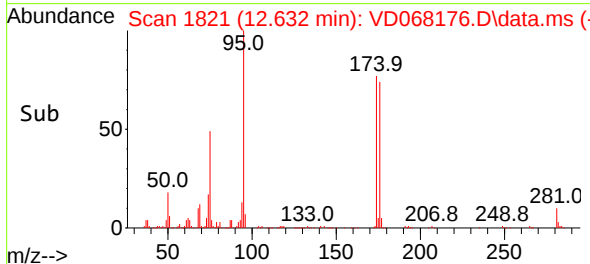


#81
trans-1,4-Dichloro-2-butene
Concen: 122.62 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. 0.106 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

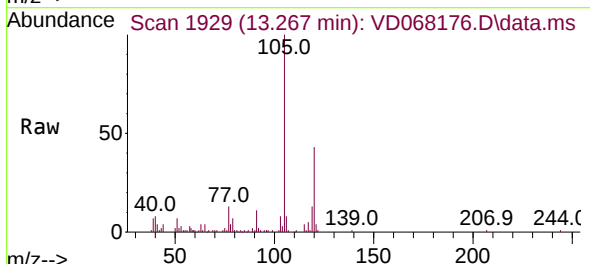
Instrument :
MSVOA_D
ClientSampled :



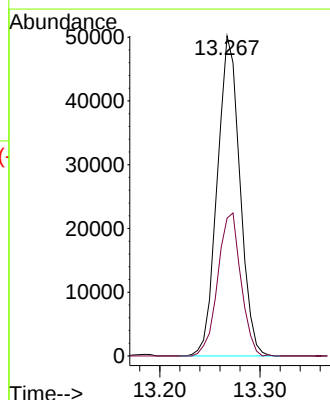
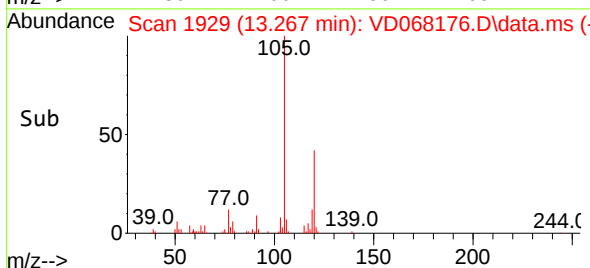
Tgt Ion: 75 Resp: 113589
Ion Ratio Lower Upper
75 100
53 0.2 70.2 105.2#
89 0.2 40.3 60.5#

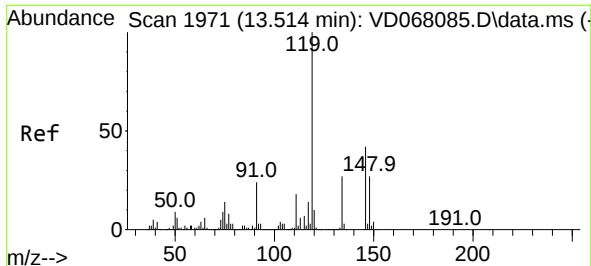


#84
1,2,4-Trimethylbenzene
Concen: 5.90 ug/l
RT: 13.267 min Scan# 1929
Delta R.T. 0.000 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06



Tgt Ion: 105 Resp: 78644
Ion Ratio Lower Upper
105 100
120 45.6 22.4 67.0

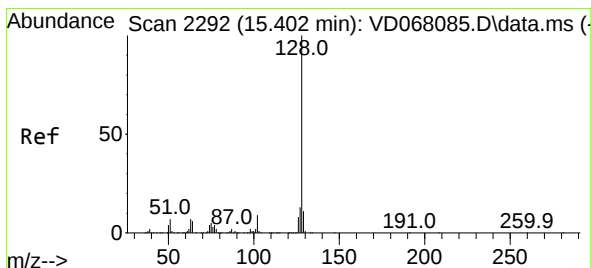
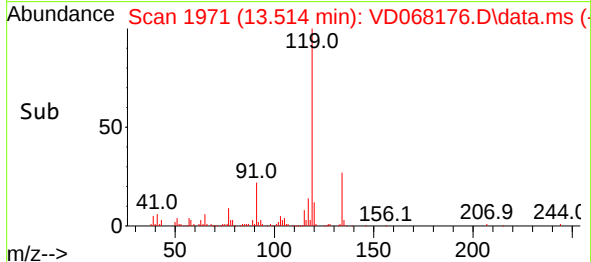
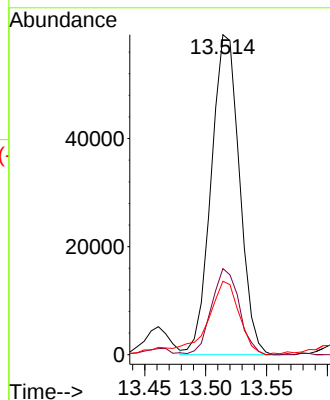
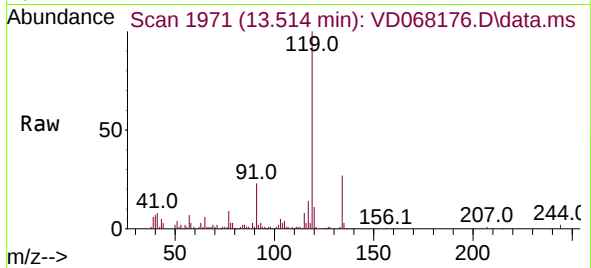




#86
p-Isopropyltoluene
Concen: 6.61 ug/l
RT: 13.514 min Scan# 1971
Delta R.T. 0.000 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

Instrument :
MSVOA_D
ClientSampled :

Tgt Ion:	119	Resp:	95727
Ion Ratio	Lower	Upper	
119	100		
134	26.1	12.9	38.7
91	27.4	11.7	35.0



#95
Naphthalene
Concen: 1.41 ug/l
RT: 15.396 min Scan# 2291
Delta R.T. -0.006 min
Lab File: VD068176.D
Acq: 25 Jan 2021 19:06

Tgt Ion:	128	Resp:	10308
Ion Ratio	Lower	Upper	
128	100		
127	11.6	10.2	15.2
129	10.9	8.8	13.2

