

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD080321\
 Data File : VD069969.D
 Acq On : 03 Aug 2021 16:39
 Operator : VA/SY
 Sample : M3268-10
 Misc : 5.40G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Aug 04 01:33:13 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D072221S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 23 04:51:13 2021
 Response via : Initial Calibration

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

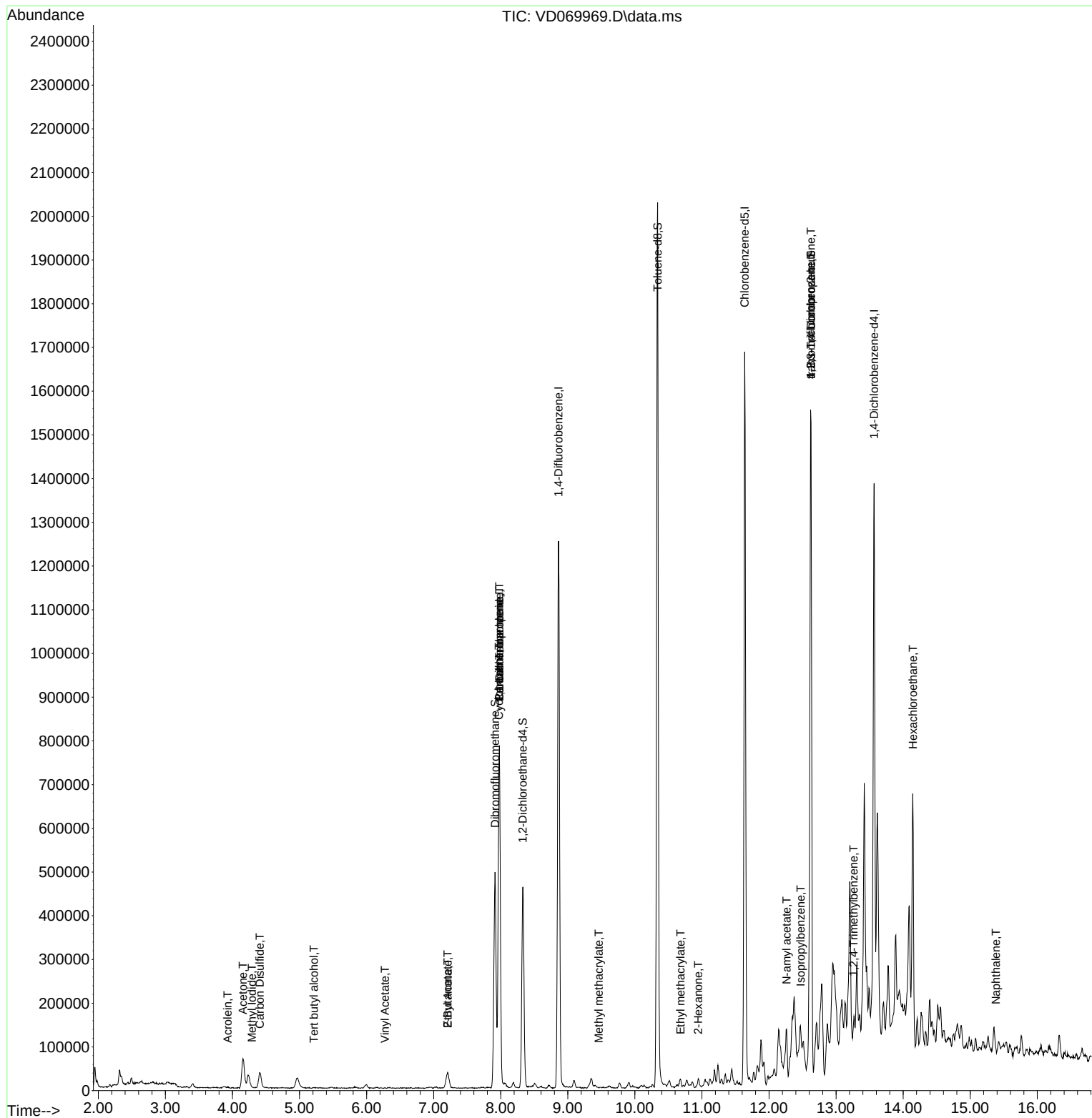
Internal Standards						
1) Pentafluorobenzene	7.979	168	524952	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	1083505	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	958784	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	330422	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	358114	59.316	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 118.640%			
35) Dibromofluoromethane	7.914	113	361534	52.930	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.860%			
50) Toluene-d8	10.338	98	1361390	51.690	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 103.380%			
62) 4-Bromofluorobenzene	12.626	95	425070	48.292	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 96.580%			
Target Compounds						
					Qvalue	
5) Bromomethane	2.750	94	205	Below Cal	#	3
10) Methyl Iodide	4.291	142	762	3.571	ug/l #	82
11) Tert butyl alcohol	5.215	59	1901	6.085	ug/l #	81
13) Acrolein	3.926	56	1397	3.195	ug/l	88
16) Acetone	4.156	43	120413	110.406	ug/l	93
17) Carbon Disulfide	4.409	76	77263	3.598	ug/l #	93
20) Methylene Chloride	4.967	84	18349	Below Cal		87
23) Vinyl Acetate	6.273	43	58	20.354	ug/l #	71
25) 2-Butanone	7.209	43	43576	29.462	ug/l #	89
31) Cyclohexane	7.973	56	22154	1.878	ug/l #	23
36) 1,1-Dichloropropene	7.979	75	49042	4.194	ug/l #	50
37) Ethyl Acetate	7.209	43	43576	10.237	ug/l #	71
38) Carbon Tetrachloride	7.979	117	57894	5.420	ug/l #	17
48) Methyl methacrylate	9.461	41	122	2.775	ug/l #	6
56) Ethyl methacrylate	10.679	69	2071	4.146	ug/l #	3
59) 2-Hexanone	10.944	43	6934	2.639	ug/l #	24
73) Isopropylbenzene	12.473	105	31573	1.330	ug/l	98
74) N-amyl acetate	12.261	43	23762	4.866	ug/l #	85
76) 1,2,3-Trichloropropane	12.626	75	210567	59.954	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.626	75	210567	181.885	ug/l #	17
84) 1,2,4-Trimethylbenzene	13.261	105	28393	1.417	ug/l	95
90) Hexachloroethane	14.143	117	25365	5.646	ug/l #	18
95) Naphthalene	15.385	128	2888	5.239	ug/l #	69

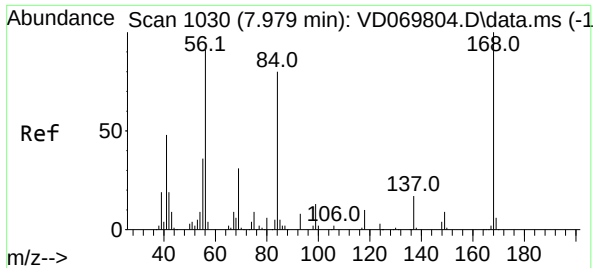
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 04 01:33:13 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D072221S.M
Quant Title : SW846 8260
QLast Update : Fri Jul 23 04:51:13 2021
Response via : Initial Calibration

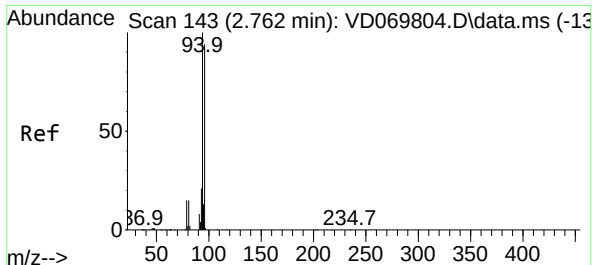
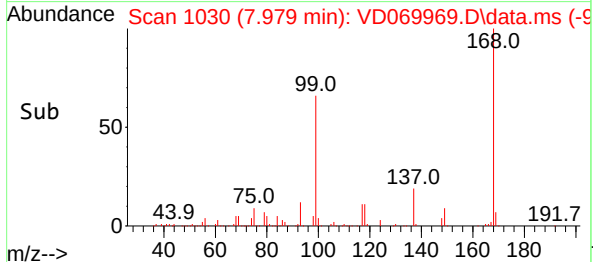
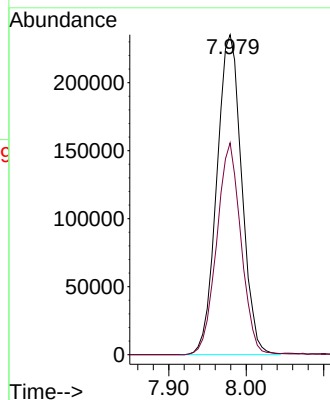
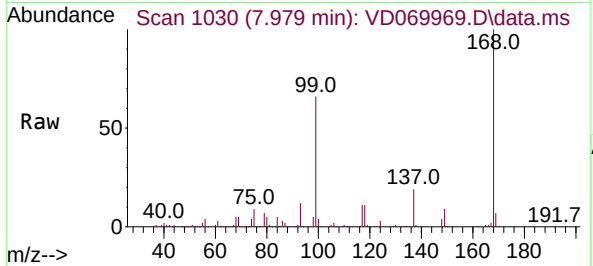




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. 0.000 min
Lab File: VD069969.D
Acq: 03 Aug 2021 16:39

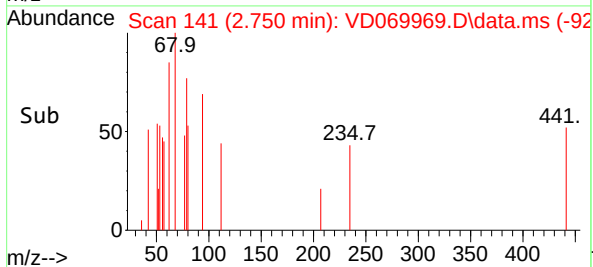
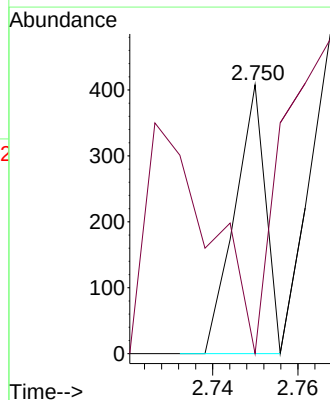
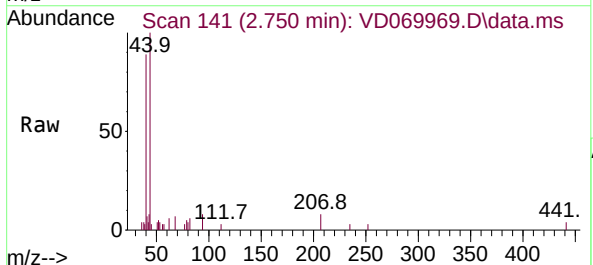
Instrument :
MSVOA_D
ClientSampled :

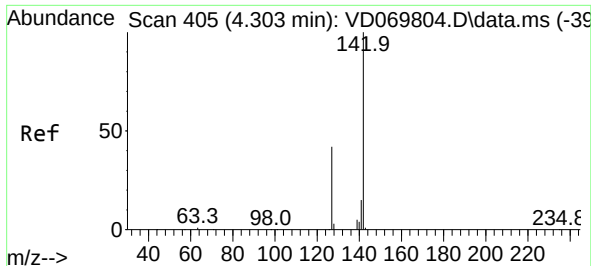
Tgt Ion:168 Resp: 524952
Ion Ratio Lower Upper
168 100
99 66.2 51.1 76.7



#5
Bromomethane
Concen: Below Cal
RT: 2.750 min Scan# 141
Delta R.T. -0.012 min
Lab File: VD069969.D
Acq: 03 Aug 2021 16:39

Tgt Ion: 94 Resp: 205
Ion Ratio Lower Upper
94 100
96 0.0 74.8 112.2#

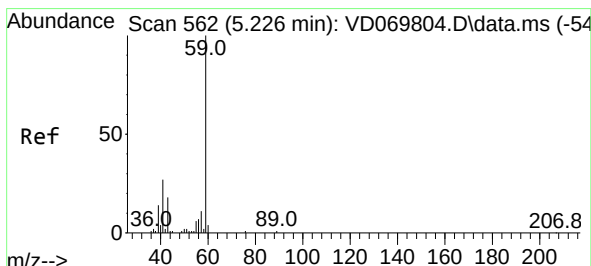
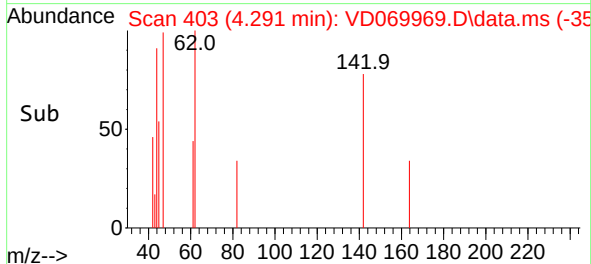
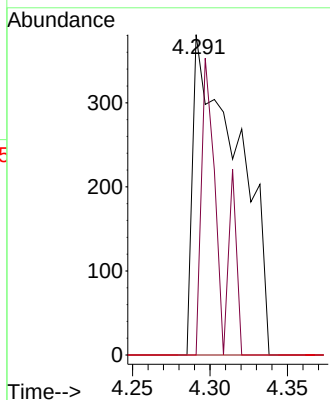
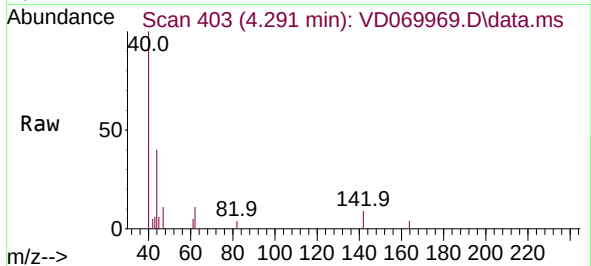




#10
Methyl Iodide
Concen: 3.571 ug/l
RT: 4.291 min Scan# 403
Delta R.T. -0.012 min
Lab File: VD069969.D
Acq: 03 Aug 2021 16:39

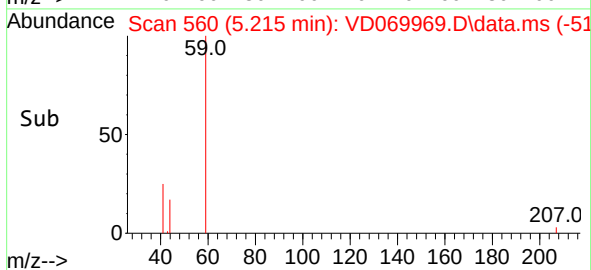
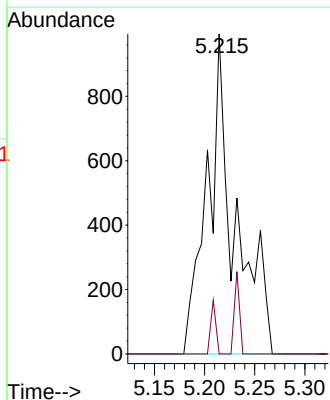
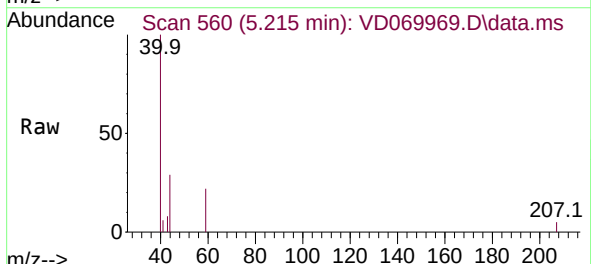
Instrument :
MSVOA_D
ClientSampled :

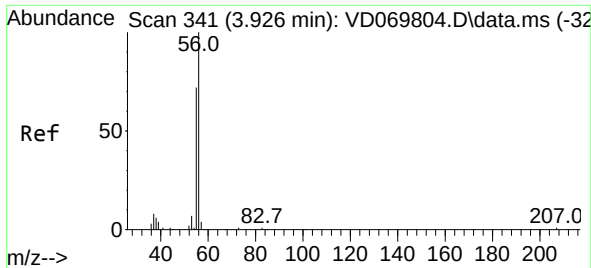
Tgt Ion:142 Resp: 762
Ion Ratio Lower Upper
142 100
127 36.7 35.7 53.5
141 0.0 12.0 18.0#



#11
Tert butyl alcohol
Concen: 6.085 ug/l
RT: 5.215 min Scan# 560
Delta R.T. -0.012 min
Lab File: VD069969.D
Acq: 03 Aug 2021 16:39

Tgt Ion: 59 Resp: 1901
Ion Ratio Lower Upper
59 100
57 3.1 8.1 12.1#

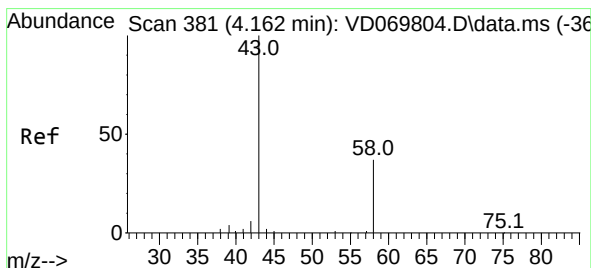
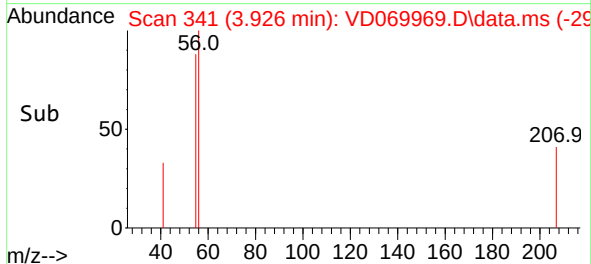
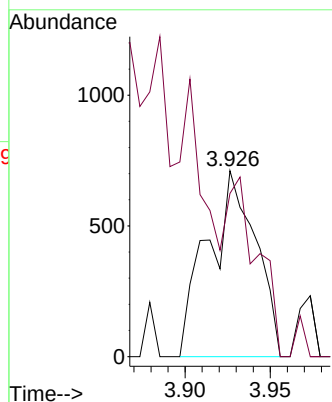
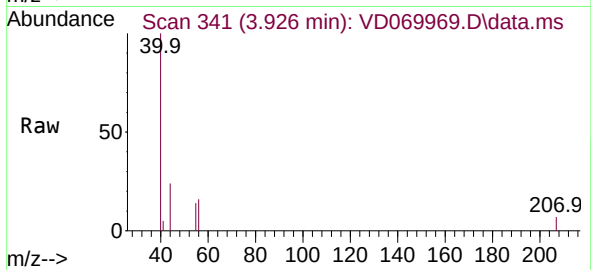




#13
Acrolein
Concen: 3.195 ug/l
RT: 3.926 min Scan# 341
Delta R.T. -0.000 min
Lab File: VD069969.D
Acq: 03 Aug 2021 16:39

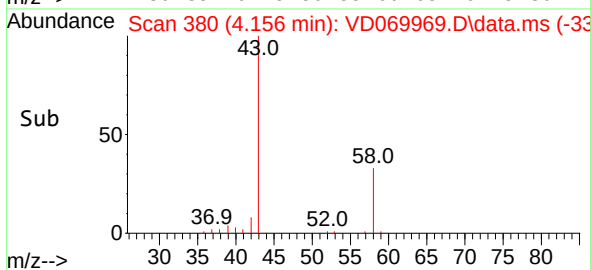
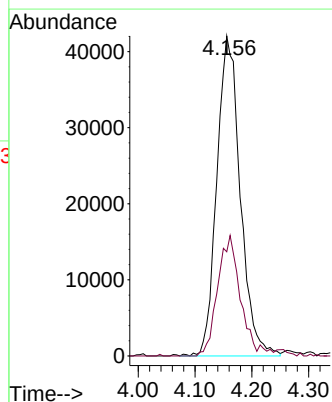
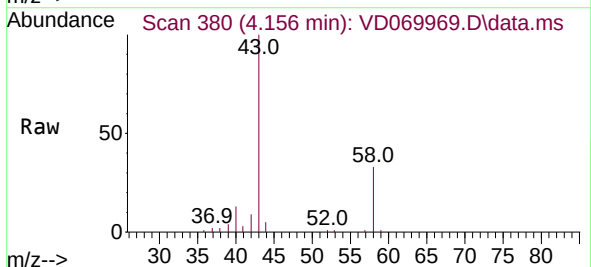
Instrument :
MSVOA_D
ClientSampleId :

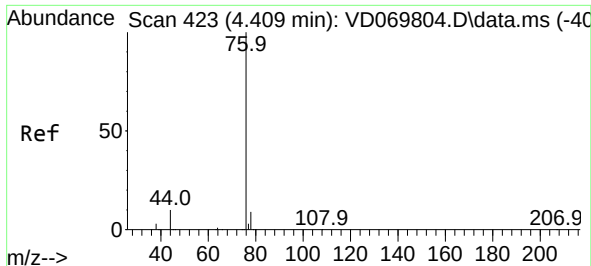
Tgt Ion: 56 Resp: 1397
Ion Ratio Lower Upper
56 100
55 61.3 57.2 85.8



#16
Acetone
Concen: 110.406 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.006 min
Lab File: VD069969.D
Acq: 03 Aug 2021 16:39

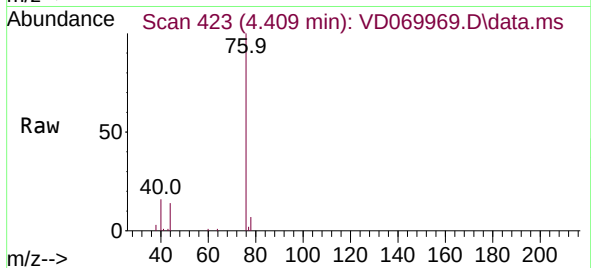
Tgt Ion: 43 Resp: 120413
Ion Ratio Lower Upper
43 100
58 32.5 29.4 44.0



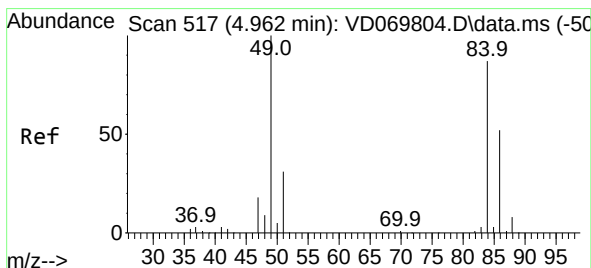
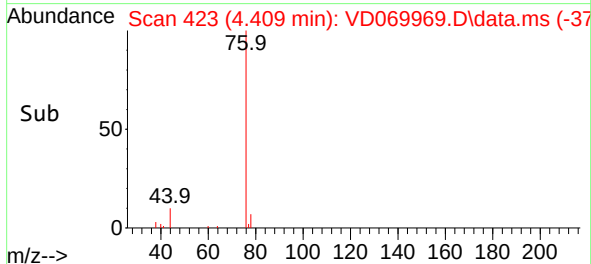
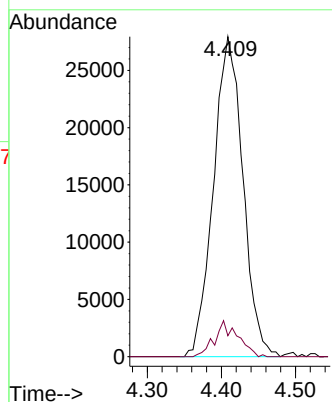


#17
Carbon Disulfide
Concen: 3.598 ug/l
RT: 4.409 min Scan# 423
Delta R.T. -0.000 min
Lab File: VD069969.D
Acq: 03 Aug 2021 16:39

Instrument :
MSVOA_D
ClientSampled :

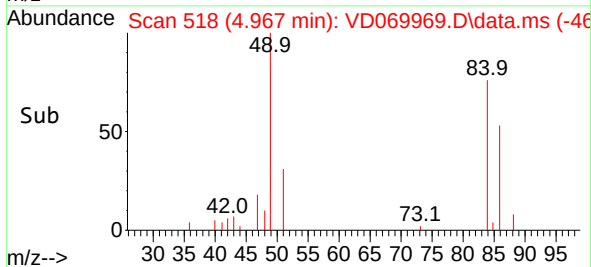
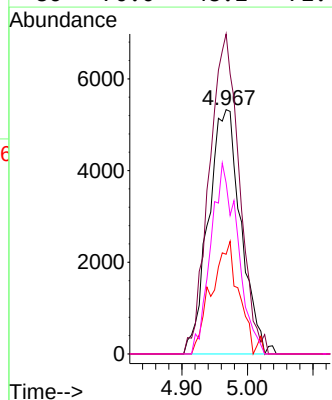
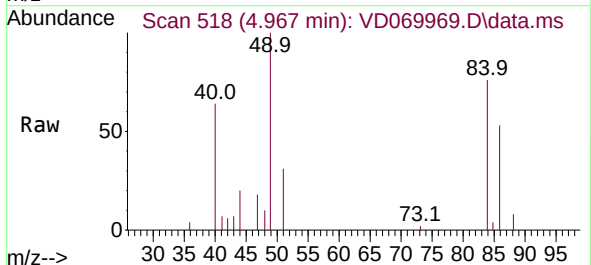


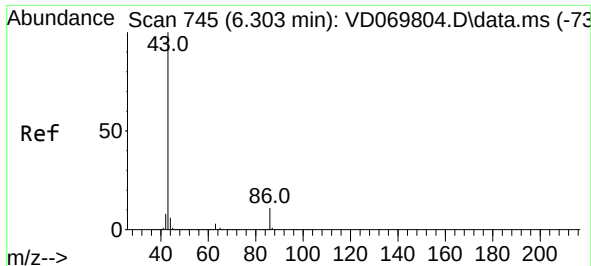
Tgt Ion: 76 Resp: 77263
Ion Ratio Lower Upper
76 100
78 6.6 7.3 10.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.967 min Scan# 518
Delta R.T. 0.005 min
Lab File: VD069969.D
Acq: 03 Aug 2021 16:39

Tgt Ion: 84 Resp: 18349
Ion Ratio Lower Upper
84 100
49 131.0 92.4 138.6
51 40.8 28.5 42.7
86 70.0 48.2 72.4

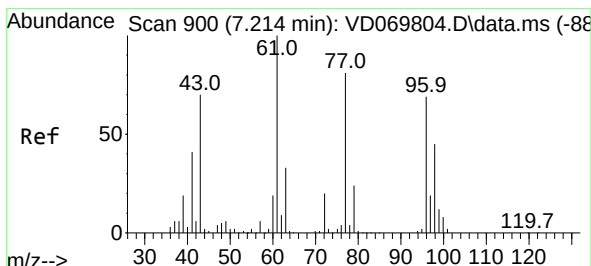
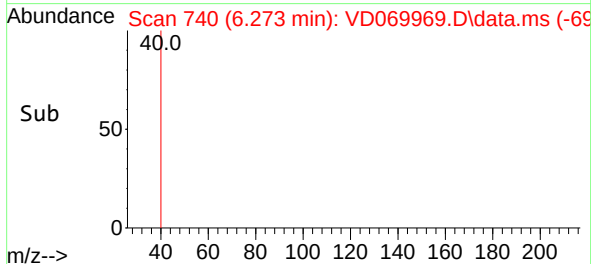
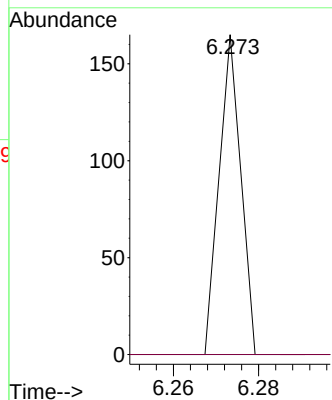
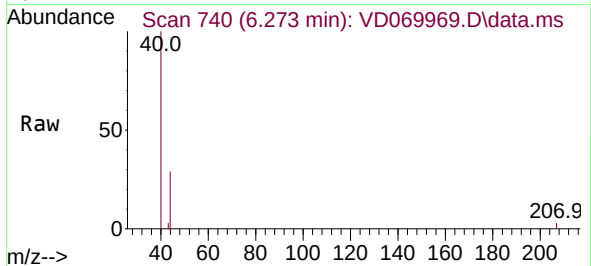




#23
 Vinyl Acetate
 Concen: 20.354 ug/l
 RT: 6.273 min Scan# 740
 Delta R.T. -0.030 min
 Lab File: VD069969.D
 Acq: 03 Aug 2021 16:39

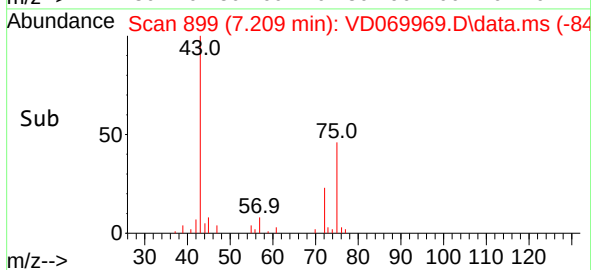
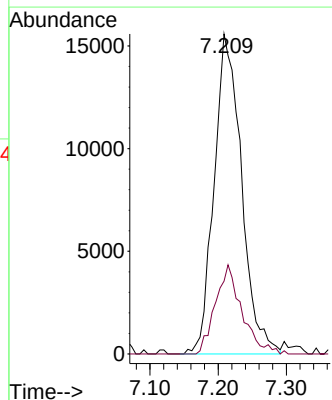
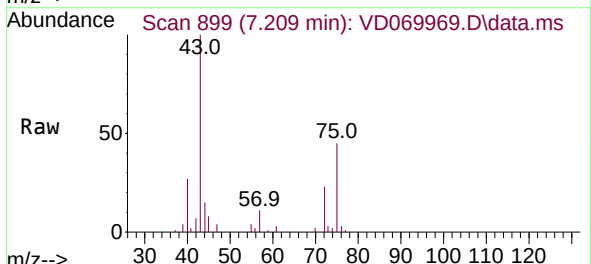
Instrument :
 MSVOA_D
 ClientSampled :

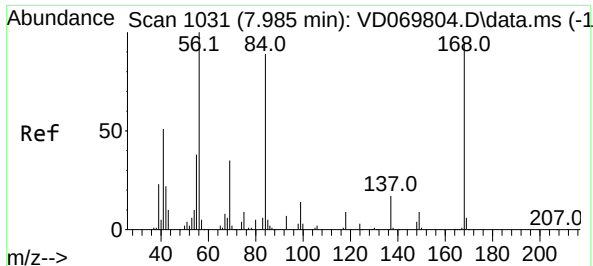
Tgt Ion: 43 Resp: 58
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.6 13.0#



#25
 2-Butanone
 Concen: 29.462 ug/l
 RT: 7.209 min Scan# 899
 Delta R.T. -0.006 min
 Lab File: VD069969.D
 Acq: 03 Aug 2021 16:39

Tgt Ion: 43 Resp: 43576
 Ion Ratio Lower Upper
 43 100
 72 22.8 22.8 34.2#





#31

Cyclohexane

Concen: 1.878 ug/l

RT: 7.973 min Scan# 1029

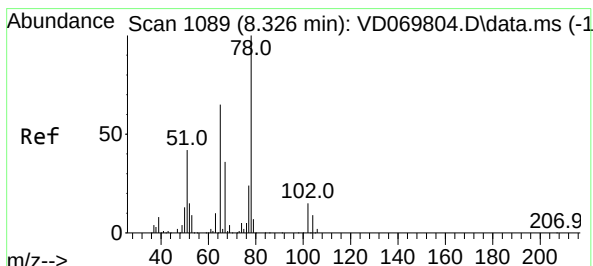
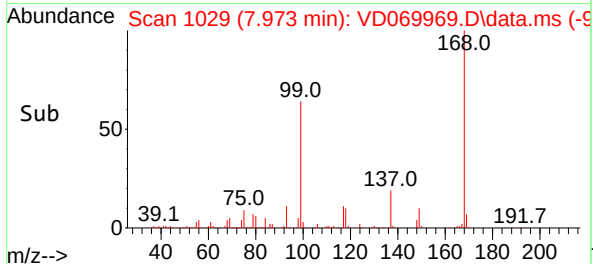
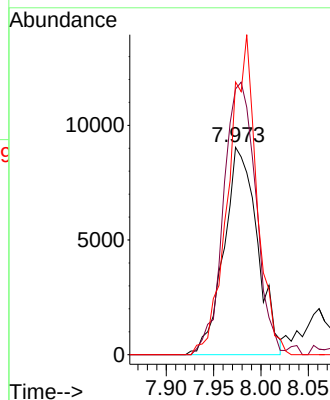
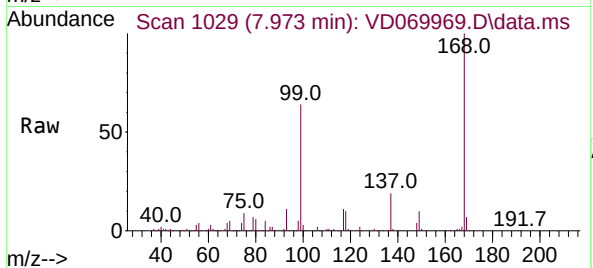
Delta R.T. -0.012 min

Lab File: VD069969.D

Acq: 03 Aug 2021 16:39

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion:	56	Resp:	22154
Ion	Ratio	Lower	Upper
56	100		
69	128.2	27.9	41.9#
84	131.4	71.4	107.2#



#33

1,2-Dichloroethane-d4

Concen: 59.316 ug/l

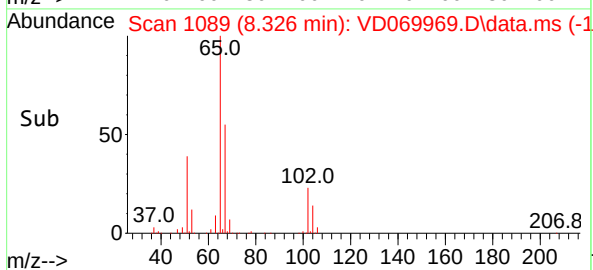
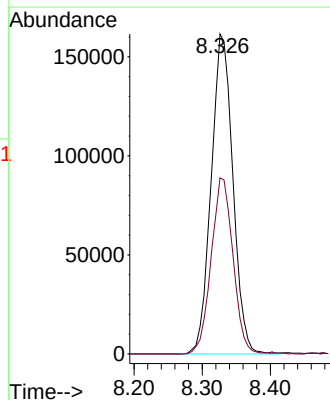
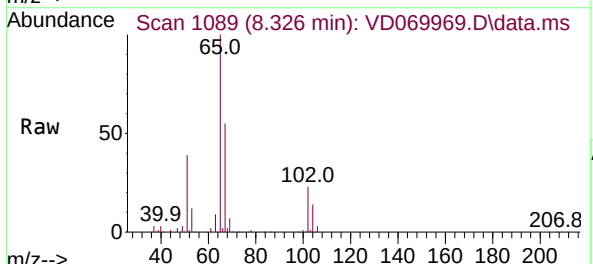
RT: 8.326 min Scan# 1089

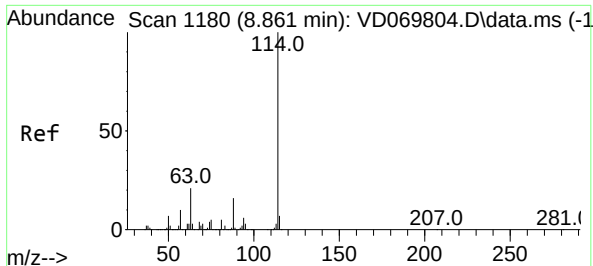
Delta R.T. -0.000 min

Lab File: VD069969.D

Acq: 03 Aug 2021 16:39

Tgt Ion:	65	Resp:	358114
Ion	Ratio	Lower	Upper
65	100		
67	55.3	0.0	111.2



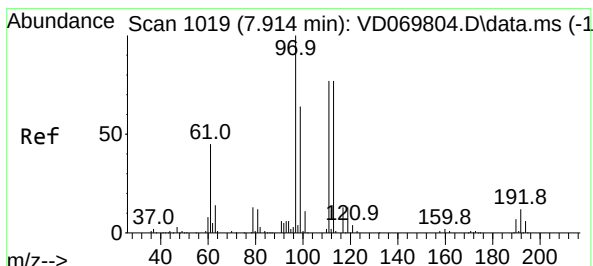
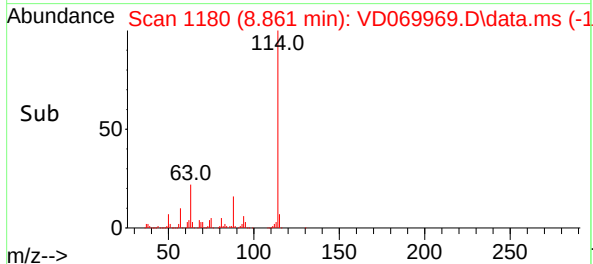
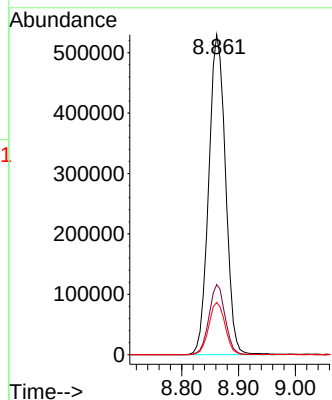
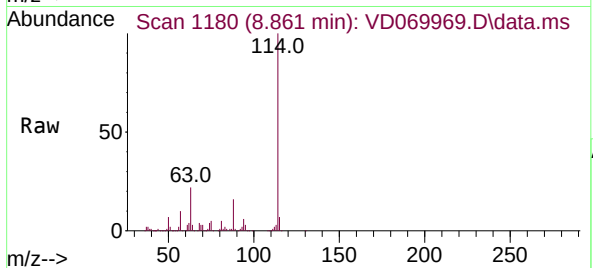


#34

1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. 0.000 min
Lab File: VD069969.D
Acq: 03 Aug 2021 16:39

Instrument :
MSVOA_D
ClientSampled :

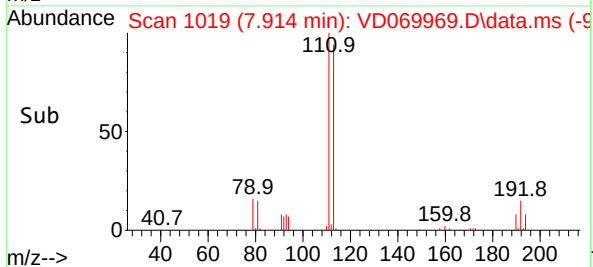
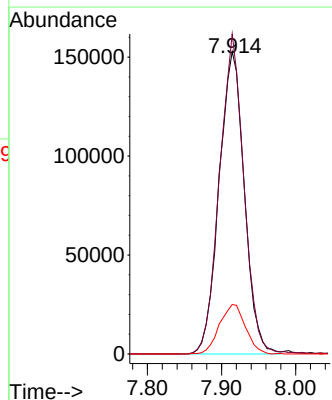
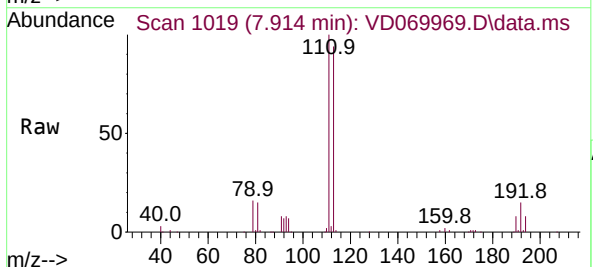
Tgt Ion:114 Resp: 1083505
Ion Ratio Lower Upper
114 100
63 21.9 0.0 41.6
88 16.3 0.0 31.4

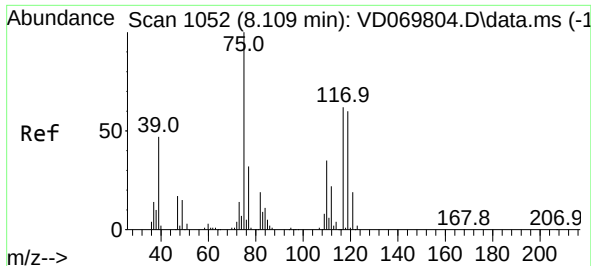


#35

Dibromofluoromethane
Concen: 52.930 ug/l
RT: 7.914 min Scan# 1019
Delta R.T. -0.000 min
Lab File: VD069969.D
Acq: 03 Aug 2021 16:39

Tgt Ion:113 Resp: 361534
Ion Ratio Lower Upper
113 100
111 102.2 80.5 120.7
192 16.9 12.6 19.0

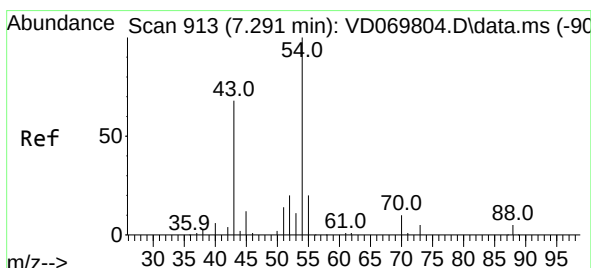
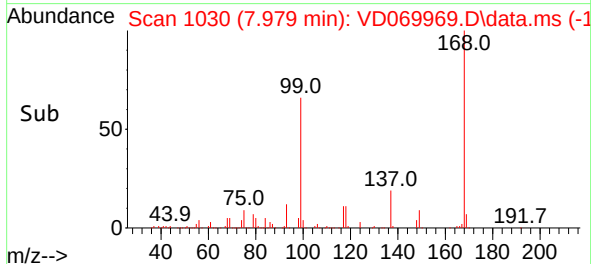
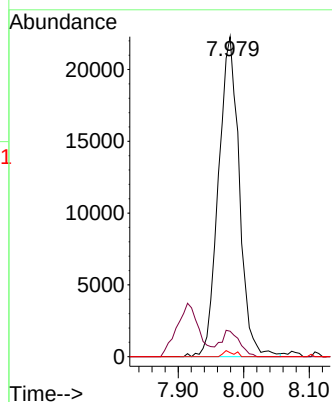
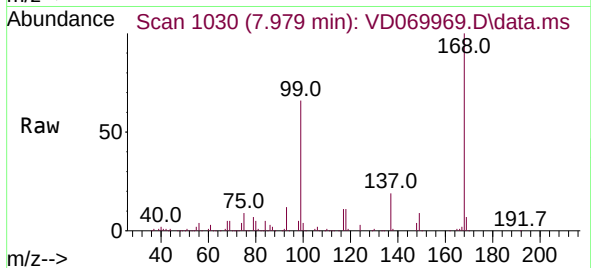




#36
1,1-Dichloropropene
Concen: 4.194 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.129 min
Lab File: VD069969.D
Acq: 03 Aug 2021 16:39

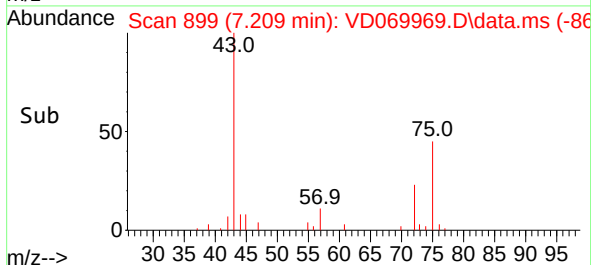
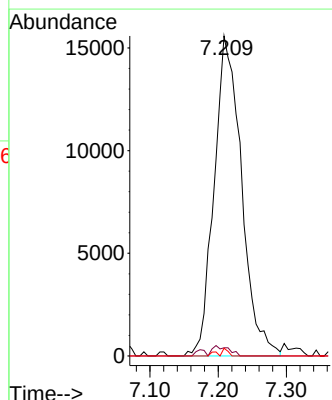
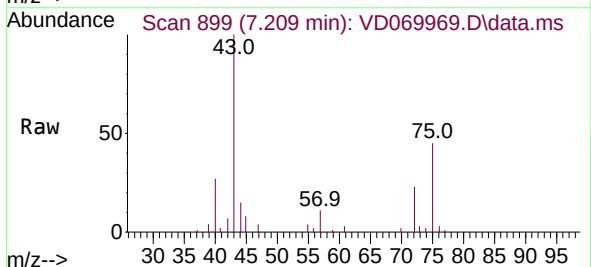
Instrument :
MSVOA_D
ClientSampled :

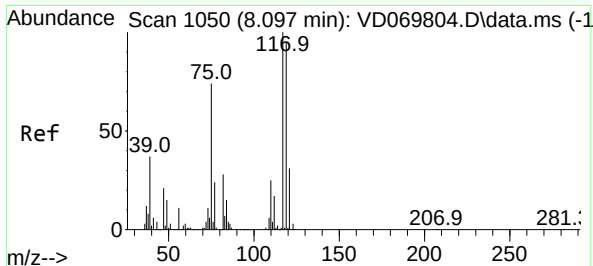
Tgt Ion: 75 Resp: 49042
Ion Ratio Lower Upper
75 100
110 7.2 16.9 50.7#
77 1.0 24.9 37.3#



#37
Ethyl Acetate
Concen: 10.237 ug/l
RT: 7.209 min Scan# 899
Delta R.T. -0.082 min
Lab File: VD069969.D
Acq: 03 Aug 2021 16:39

Tgt Ion: 43 Resp: 43576
Ion Ratio Lower Upper
43 100
61 1.9 11.8 17.8#
70 0.8 8.9 13.3#

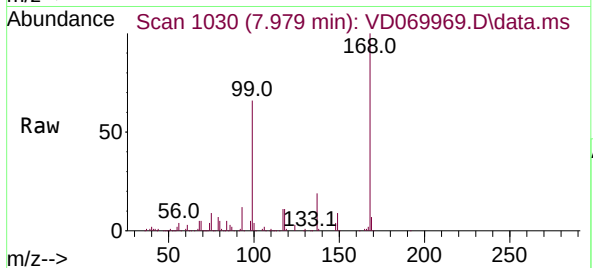




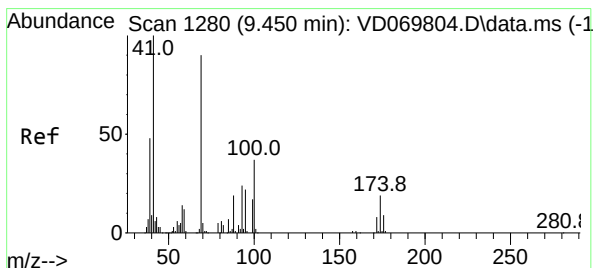
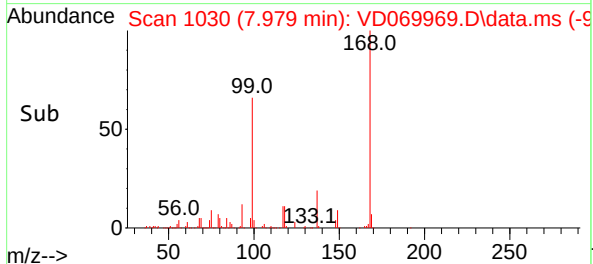
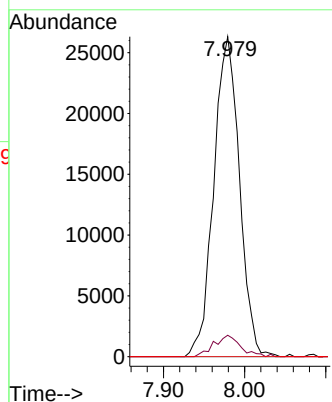
#38

Carbon Tetrachloride
Concen: 5.420 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.118 min
Lab File: VD069969.D
Acq: 03 Aug 2021 16:39

Instrument :
MSVOA_D
ClientSampled :



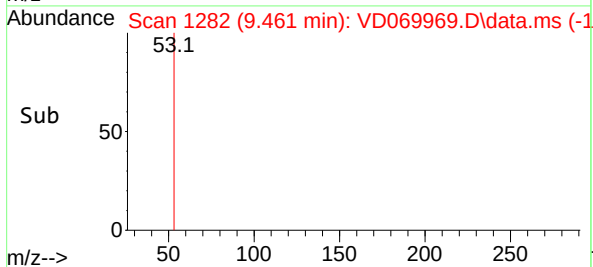
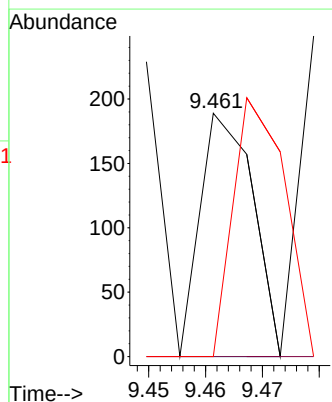
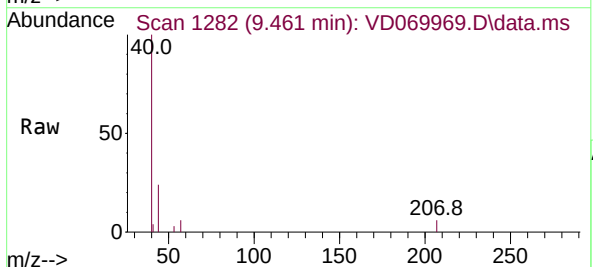
Tgt Ion:	117	Resp:	57894
Ion	Ratio	Lower	Upper
117	100		
119	6.7	76.2	114.2#
121	0.0	24.5	36.7#

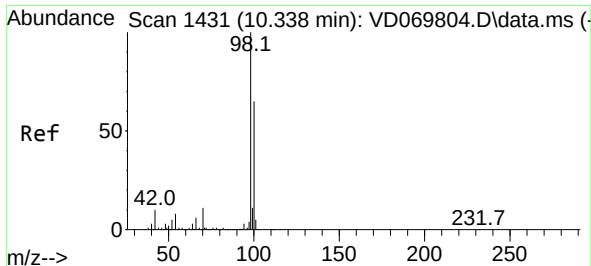


#48

Methyl methacrylate
Concen: 2.775 ug/l
RT: 9.461 min Scan# 1282
Delta R.T. 0.011 min
Lab File: VD069969.D
Acq: 03 Aug 2021 16:39

Tgt Ion:	41	Resp:	122
Ion	Ratio	Lower	Upper
41	100		
69	0.0	73.4	110.2#
39	104.1	36.6	55.0#

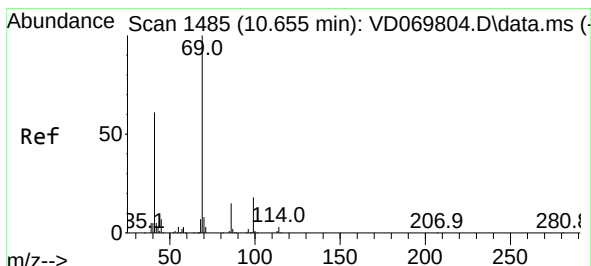
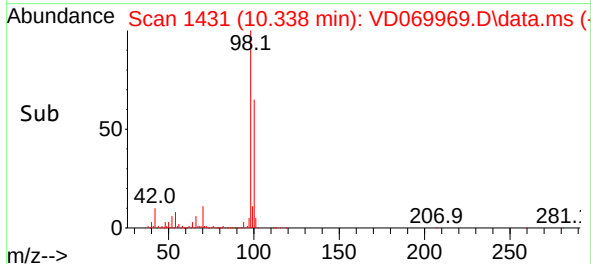
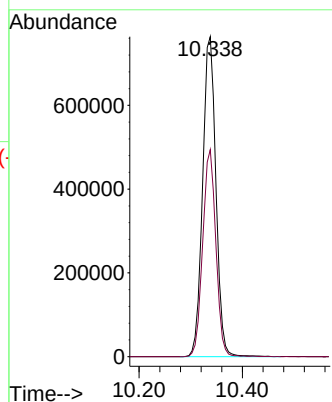
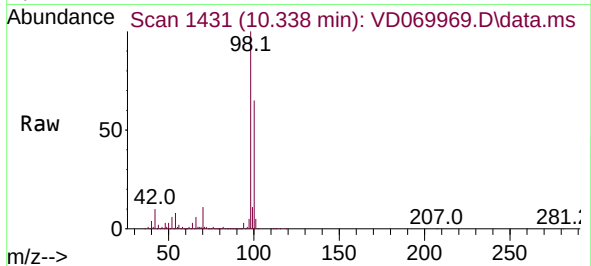




#50
Toluene-d8
Concen: 51.690 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD069969.D
Acq: 03 Aug 2021 16:39

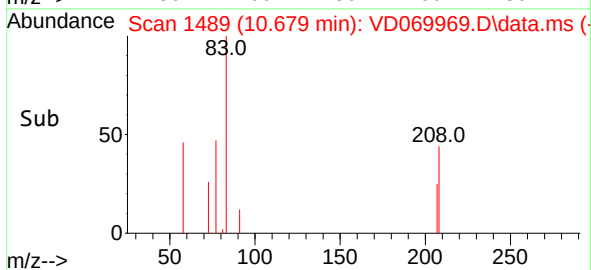
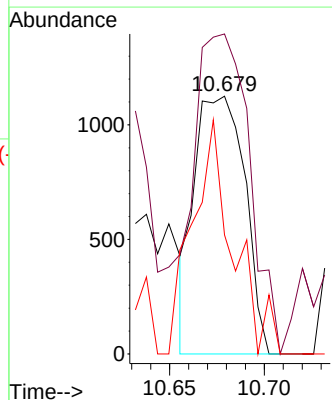
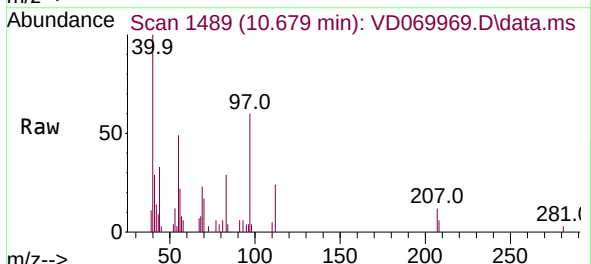
Instrument :
MSVOA_D
ClientSampleId :

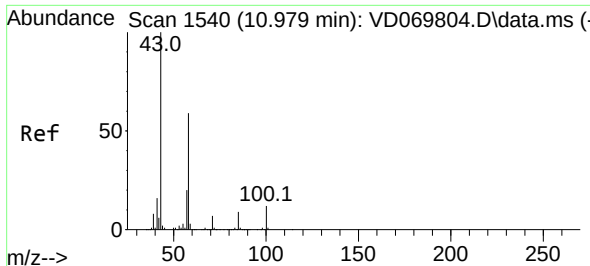
Tgt Ion: 98 Resp: 1361390
Ion Ratio Lower Upper
98 100
100 64.2 51.9 77.9



#56
Ethyl methacrylate
Concen: 4.146 ug/l
RT: 10.679 min Scan# 1489
Delta R.T. 0.024 min
Lab File: VD069969.D
Acq: 03 Aug 2021 16:39

Tgt Ion: 69 Resp: 2071
Ion Ratio Lower Upper
69 100
41 140.7 50.2 75.2#
39 73.9 22.0 33.0#

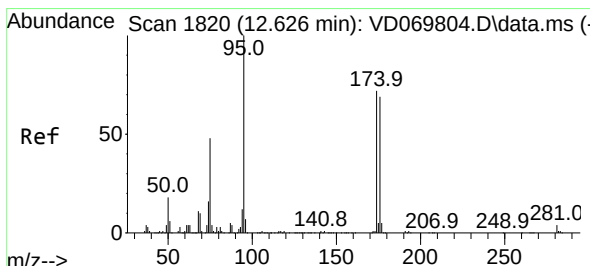
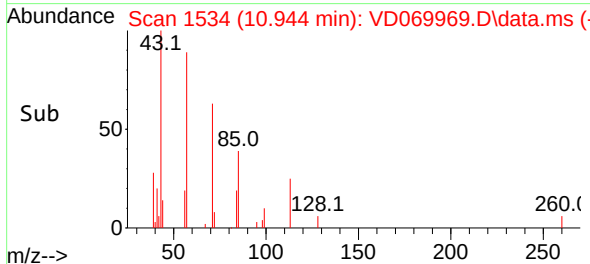
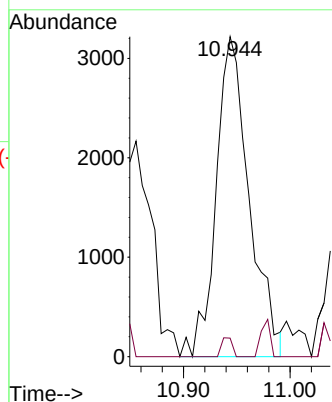
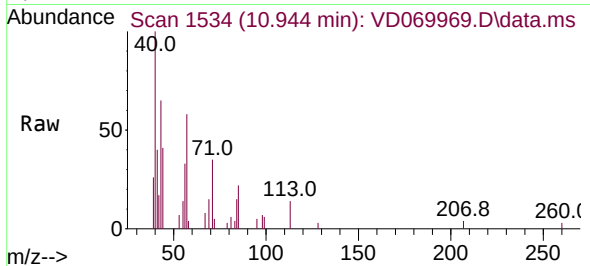




#59
2-Hexanone
Concen: 2.639 ug/l
RT: 10.944 min Scan# 1534
Delta R.T. -0.035 min
Lab File: VD069969.D
Acq: 03 Aug 2021 16:39

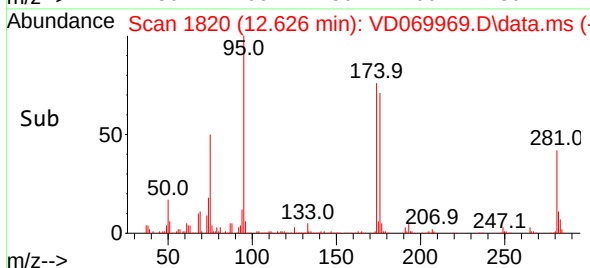
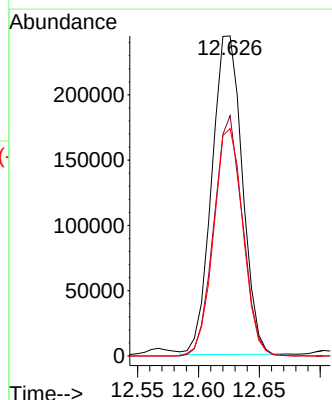
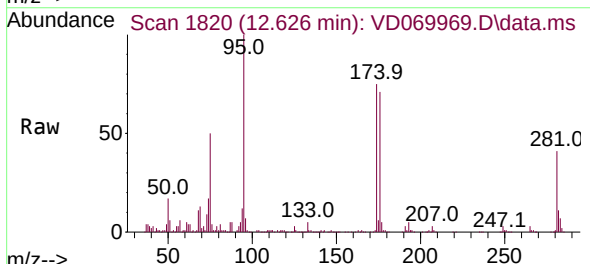
Instrument :
MSVOA_D
ClientSampled :

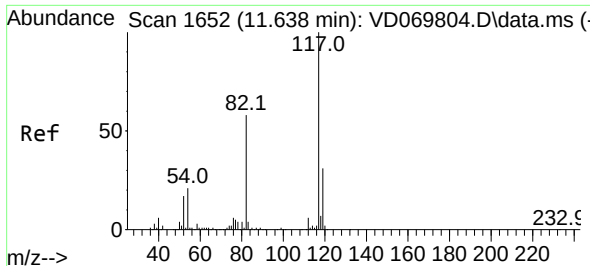
Tgt Ion: 43 Resp: 6934
Ion Ratio Lower Upper
43 100
58 1.9 29.4 88.3#



#62
4-Bromofluorobenzene
Concen: 48.292 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD069969.D
Acq: 03 Aug 2021 16:39

Tgt Ion: 95 Resp: 425070
Ion Ratio Lower Upper
95 100
174 70.8 0.0 142.6
176 68.9 0.0 134.2

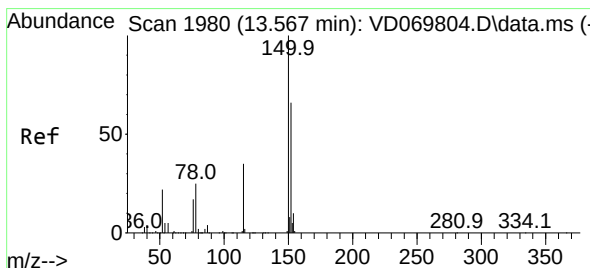
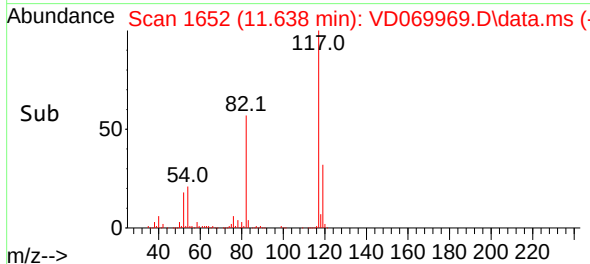
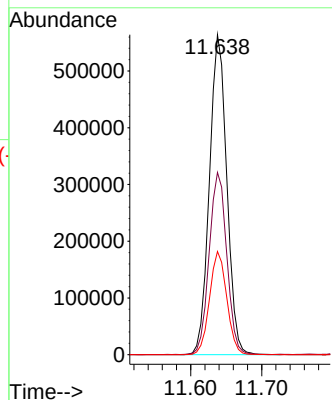
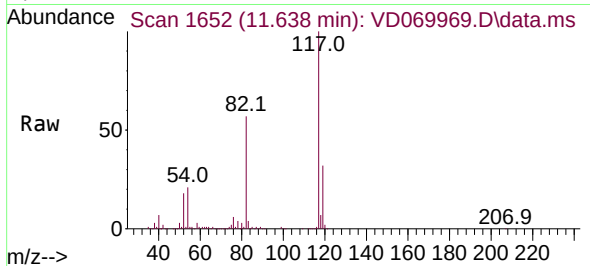




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD069969.D
Acq: 03 Aug 2021 16:39

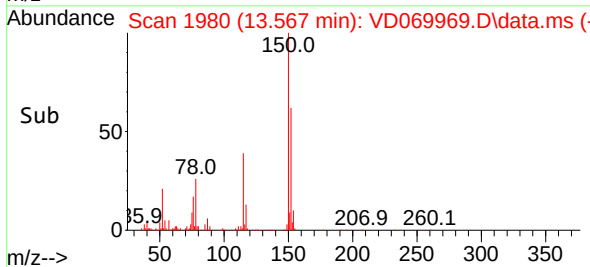
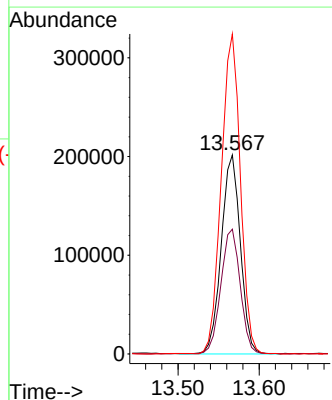
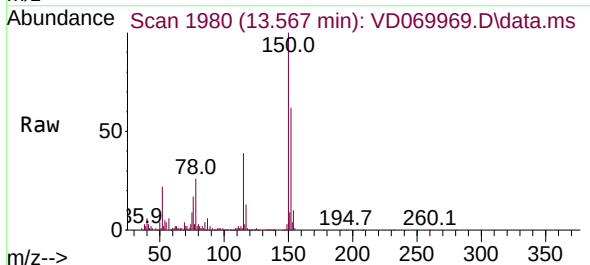
Instrument :
MSVOA_D
ClientSampled :

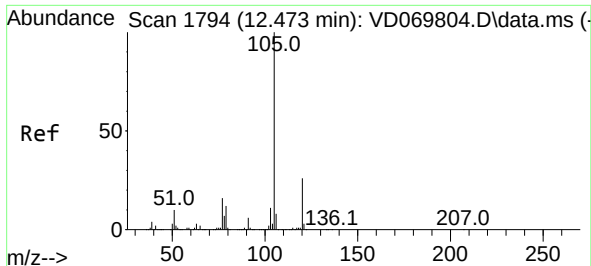
Tgt Ion:117 Resp: 958784
Ion Ratio Lower Upper
117 100
82 56.9 46.3 69.5
119 32.3 24.7 37.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. -0.000 min
Lab File: VD069969.D
Acq: 03 Aug 2021 16:39

Tgt Ion:152 Resp: 330422
Ion Ratio Lower Upper
152 100
115 63.7 31.1 93.3
150 160.5 0.0 343.0

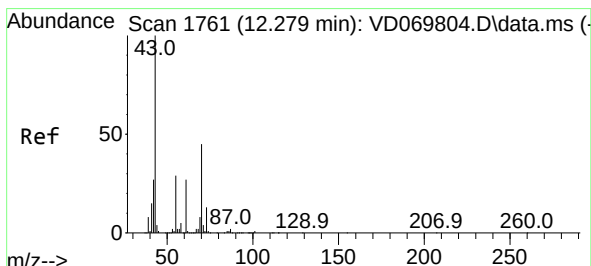
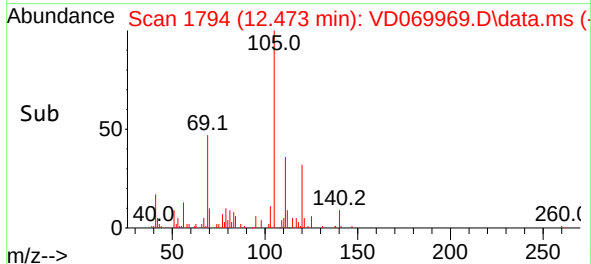
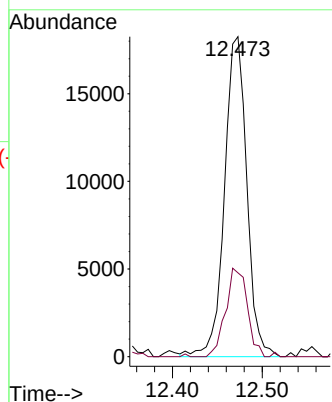
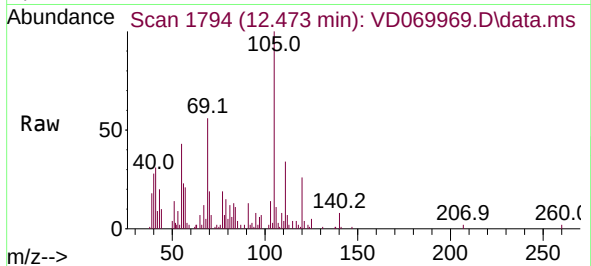




#73
Isopropylbenzene
Concen: 1.330 ug/l
RT: 12.473 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VD069969.D
Acq: 03 Aug 2021 16:39

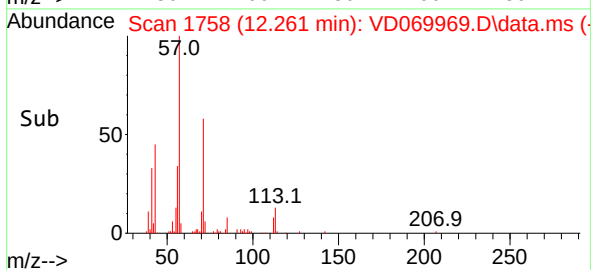
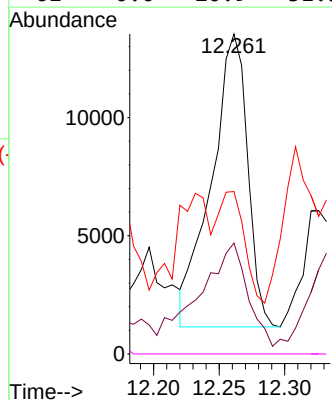
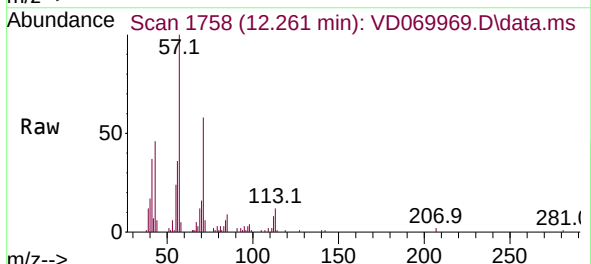
Instrument :
MSVOA_D
ClientSampleId :

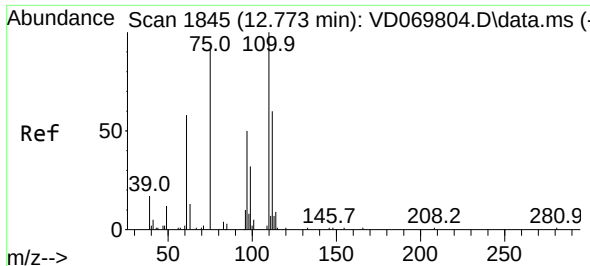
Tgt Ion:105 Resp: 31573
Ion Ratio Lower Upper
105 100
120 26.7 13.0 38.9



#74
N-ethyl acetate
Concen: 4.866 ug/l
RT: 12.261 min Scan# 1758
Delta R.T. -0.018 min
Lab File: VD069969.D
Acq: 03 Aug 2021 16:39

Tgt Ion: 43 Resp: 23762
Ion Ratio Lower Upper
43 100
70 46.5 37.9 56.9
55 27.4 23.7 35.5
61 0.0 20.9 31.3#

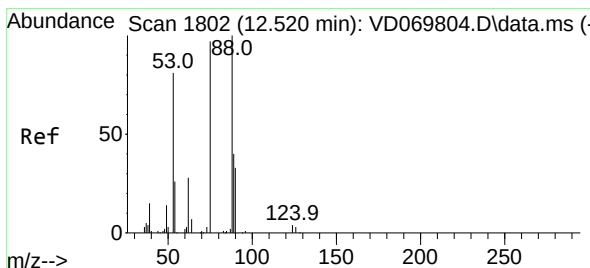
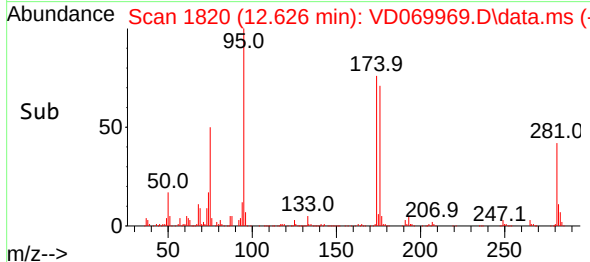
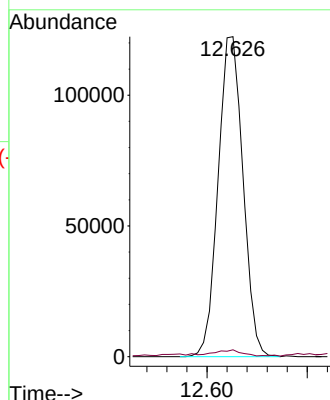
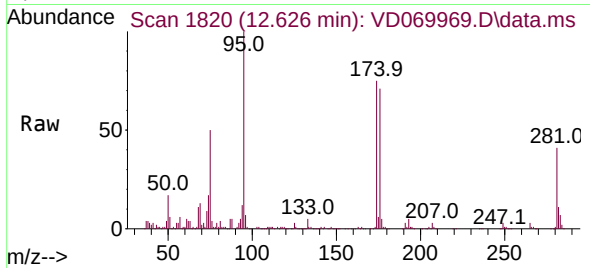




#76
1,2,3-Trichloropropane
Concen: 59.954 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD069969.D
Acq: 03 Aug 2021 16:39

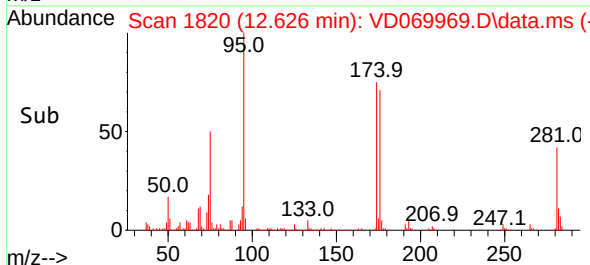
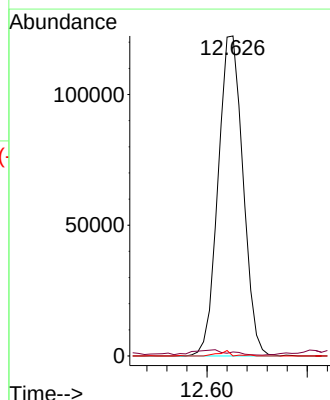
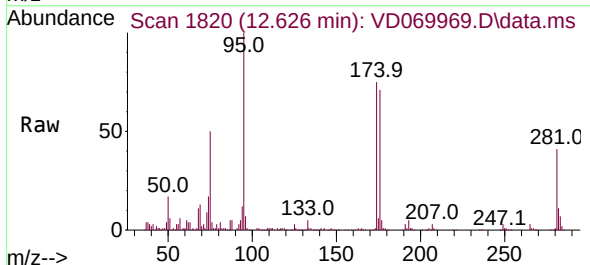
Instrument :
MSVOA_D
ClientSampleId :

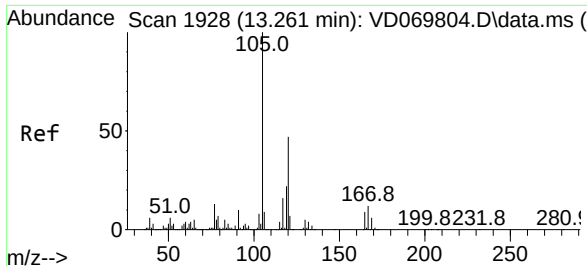
Tgt Ion: 75 Resp: 210567
Ion Ratio Lower Upper
75 100
77 1.8 181.5 544.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 181.885 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.106 min
Lab File: VD069969.D
Acq: 03 Aug 2021 16:39

Tgt Ion: 75 Resp: 210567
Ion Ratio Lower Upper
75 100
53 1.7 67.2 100.8#
89 0.8 35.8 53.6#

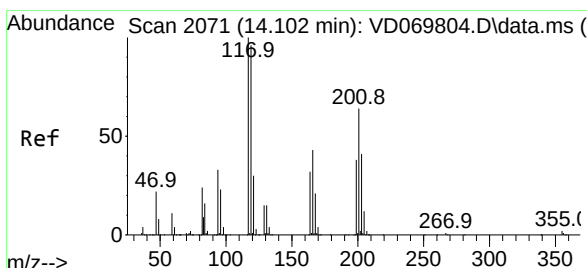
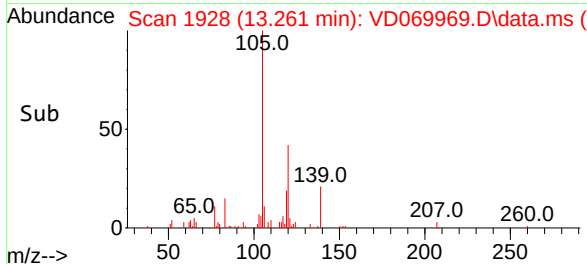
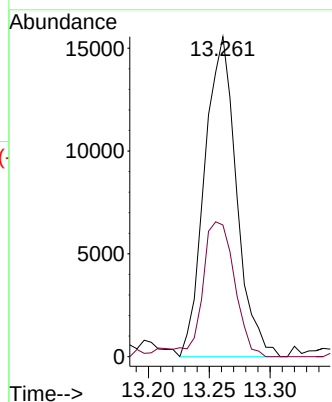
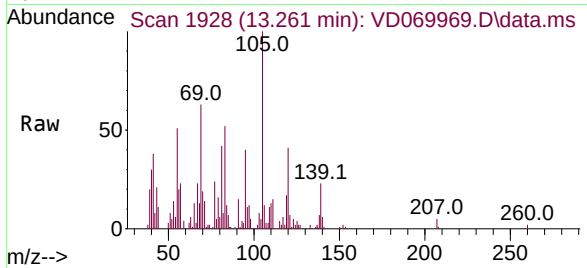




#84
1,2,4-Trimethylbenzene
Concen: 1.417 ug/l
RT: 13.261 min Scan# 1928
Delta R.T. -0.000 min
Lab File: VD069969.D
Acq: 03 Aug 2021 16:39

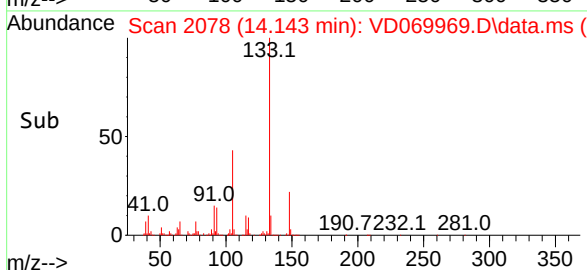
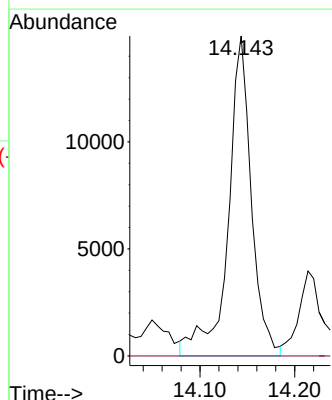
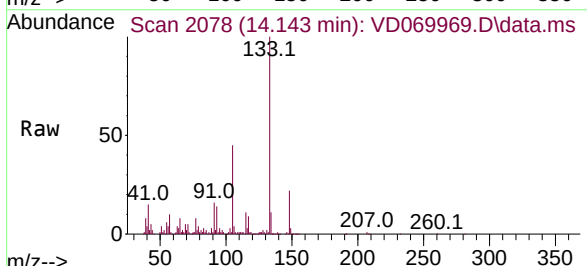
Instrument :
MSVOA_D
ClientSampleId :

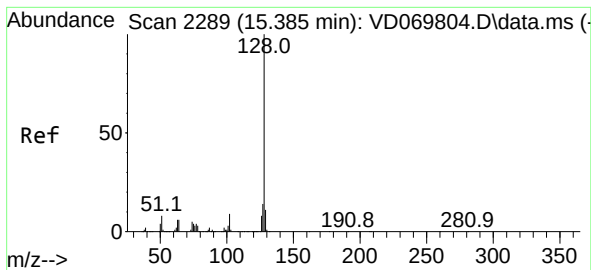
Tgt Ion:105 Resp: 28393
Ion Ratio Lower Upper
105 100
120 41.9 22.6 67.8



#90
Hexachloroethane
Concen: 5.646 ug/l
RT: 14.143 min Scan# 2078
Delta R.T. 0.041 min
Lab File: VD069969.D
Acq: 03 Aug 2021 16:39

Tgt Ion:117 Resp: 25365
Ion Ratio Lower Upper
117 100
201 0.0 31.9 95.5#





#95
Naphthalene
Concen: 5.239 ug/l
RT: 15.385 min Scan# 2289
Delta R.T. -0.000 min
Lab File: VD069969.D
Acq: 03 Aug 2021 16:39

Instrument :
MSVOA_D
ClientSampled :

Tgt Ion:128 Resp: 2888
Ion Ratio Lower Upper
128 100
127 0.0 10.6 16.0#
129 0.0 8.6 12.8#

