

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD080221\
 Data File : VD069950.D
 Acq On : 02 Aug 2021 12:19
 Operator : VA/SY
 Sample : M3253-03
 Misc : 5.01G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Aug 03 02:55:45 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)

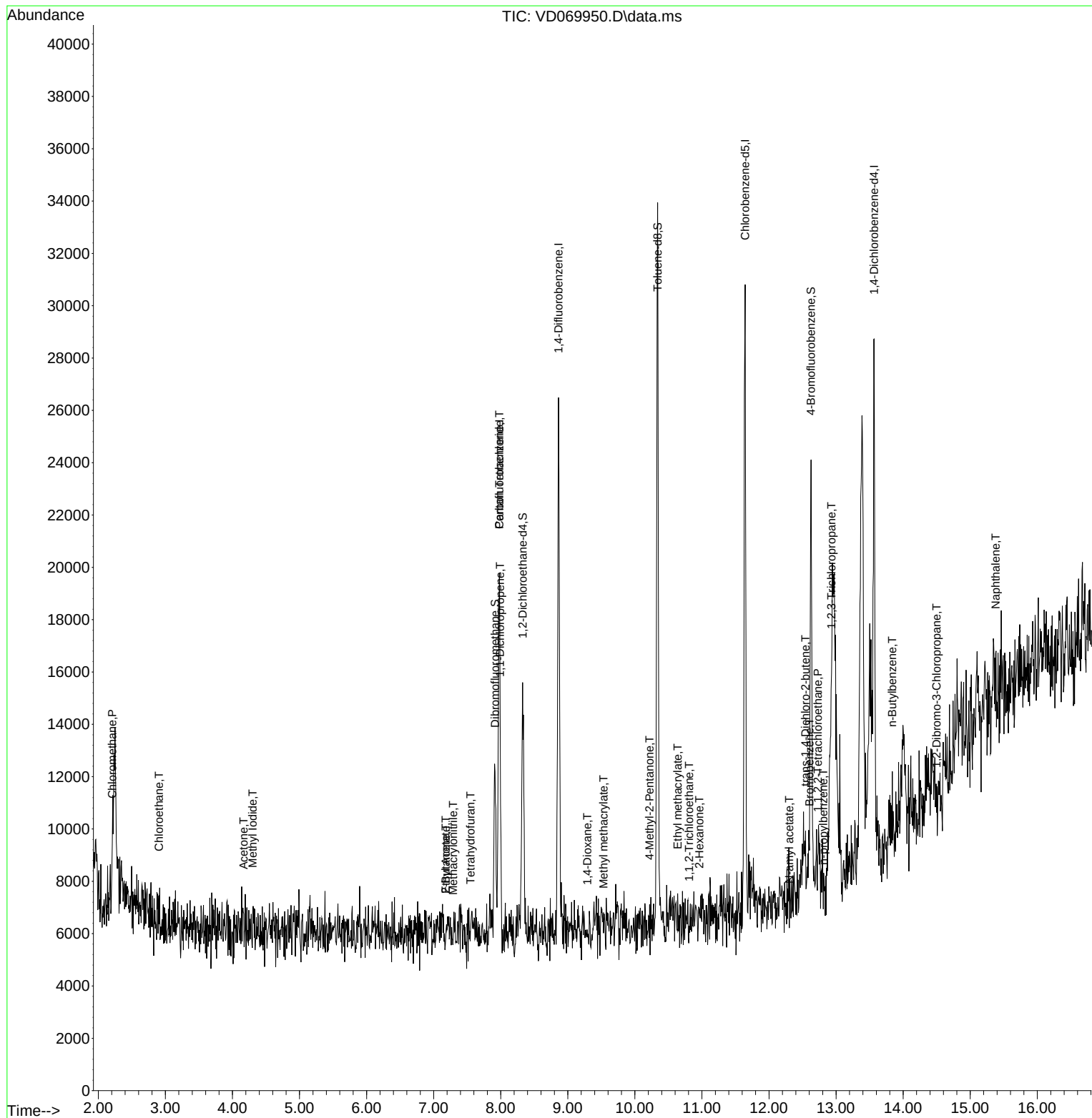
Internal Standards						
1) Pentafluorobenzene	7.979	168	9392	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	16554	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.644	117	14136	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	5574	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	7889	73.035	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 146.080%	
35) Dibromofluoromethane	7.914	113	5363	51.391	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 102.780%	
50) Toluene-d8	10.338	98	18855	46.857	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 93.720%	
62) 4-Bromofluorobenzene	12.626	95	5359	39.850	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 79.700%	
Target Compounds						
						Qvalue
3) Chloromethane	2.209	50	283	1.974	ug/l #	75
5) Bromomethane	2.797	94	70	Below Cal		95
6) Chloroethane	2.903	64	215	2.199	ug/l #	40
10) Methyl Iodide	4.303	142	91	4.188	ug/l #	40
16) Acetone	4.168	43	120	6.150	ug/l #	38
20) Methylene Chloride	4.950	84	377	Below Cal	#	55
25) 2-Butanone	7.179	43	70	2.645	ug/l #	46
29) Tetrahydrofuran	7.550	42	106	6.192	ug/l #	32
36) 1,1-Dichloropropene	7.991	75	415	2.323	ug/l #	42
37) Ethyl Acetate	7.179	43	70	1.076	ug/l #	67
38) Carbon Tetrachloride	7.979	117	1213	7.433	ug/l #	12
41) Methacrylonitrile	7.291	41	58	1.699	ug/l #	18
48) Methyl methacrylate	9.532	41	55	3.584	ug/l #	13
49) 1,4-Dioxane	9.291	88	55	77.904	ug/l #	1
51) 4-Methyl-2-Pentanone	10.220	43	62	1.021	ug/l #	34
55) 1,1,2-Trichloroethane	10.808	97	98	1.038	ug/l #	15
56) Ethyl methacrylate	10.638	69	65	4.410	ug/l #	28
59) 2-Hexanone	10.961	43	59	1.470	ug/l #	21
74) N-amyl acetate	12.302	43	279	3.387	ug/l #	17
75) 1,1,2,2-Tetrachloroethane	12.726	83	100	1.250	ug/l #	26
76) 1,2,3-Trichloropropane	12.932	75	282	4.760	ug/l	56
77) Bromobenzene	12.602	156	504	5.587	ug/l #	1
78) n-propylbenzene	12.808	91	564	1.096	ug/l #	54
81) trans-1,4-Dichloro-2-b...	12.544	75	109	5.581	ug/l #	16
89) n-Butylbenzene	13.838	91	509	1.442	ug/l #	62
92) 1,2-Dibromo-3-Chloropr...	14.496	75	65	5.644	ug/l #	7
95) Naphthalene	15.379	128	125	5.616	ug/l #	69

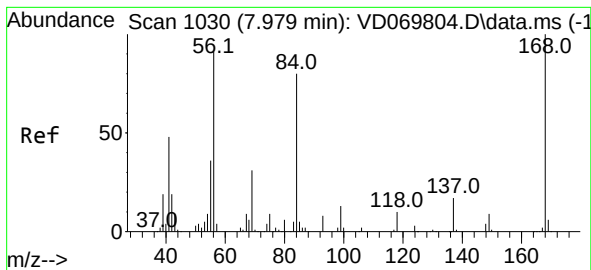
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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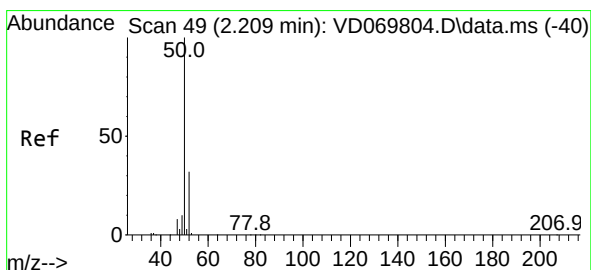
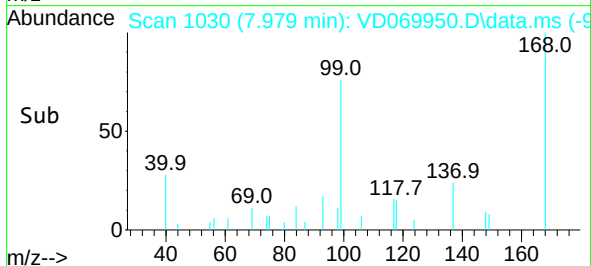
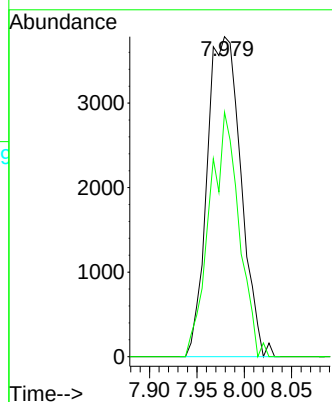
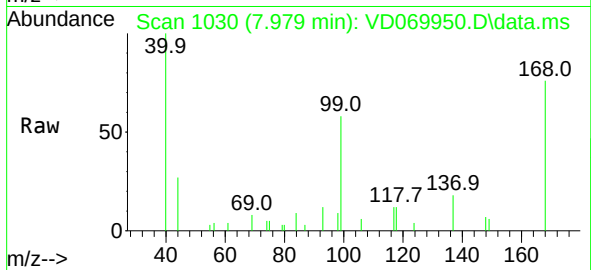




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. 0.000 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

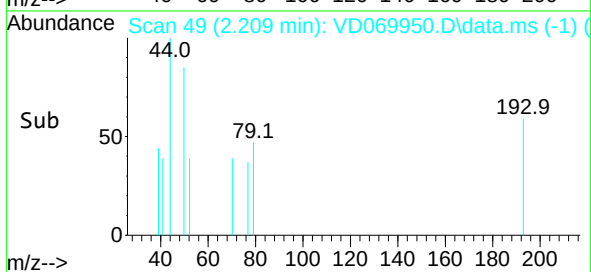
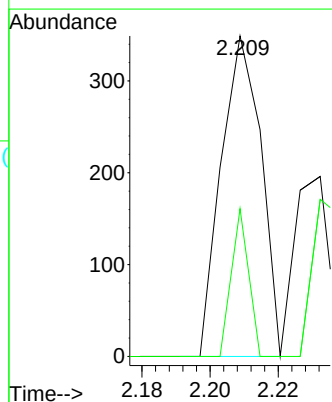
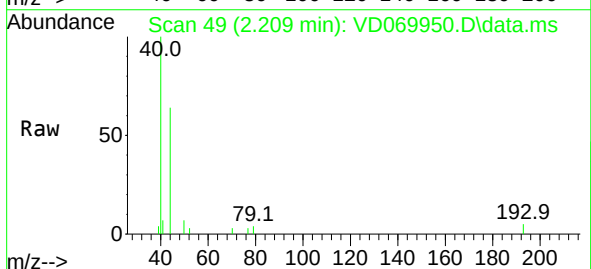
Instrument :
MSVOA_D
ClientSampleId :

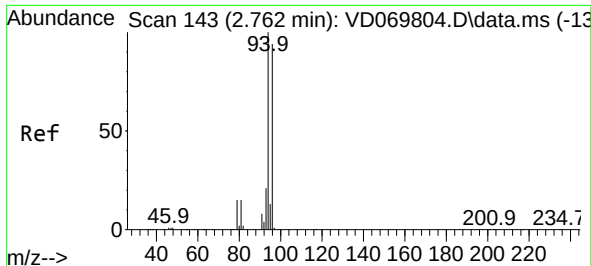
Tgt Ion:168 Resp: 9392
Ion Ratio Lower Upper
168 100
99 76.4 51.1 76.7



#3
Chloromethane
Concen: 1.974 ug/l
RT: 2.209 min Scan# 49
Delta R.T. -0.000 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

Tgt Ion: 50 Resp: 283
Ion Ratio Lower Upper
50 100
52 46.1 25.7 38.5#

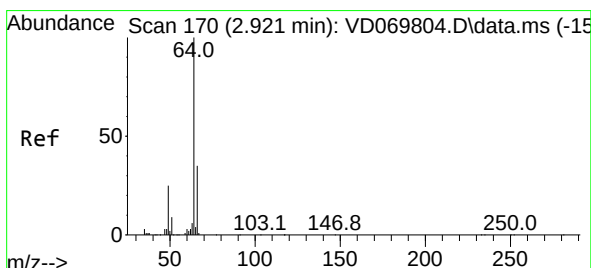
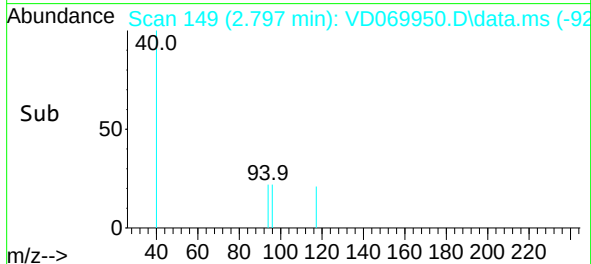
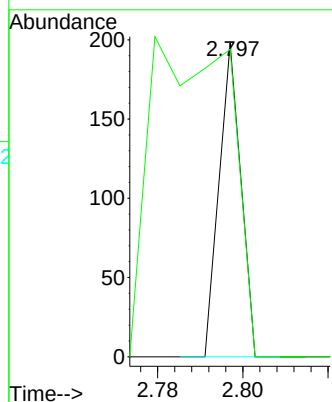
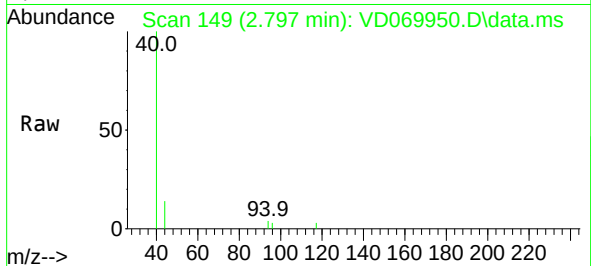




#5
Bromomethane
Concen: Below Cal
RT: 2.797 min Scan# 149
Delta R.T. 0.035 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

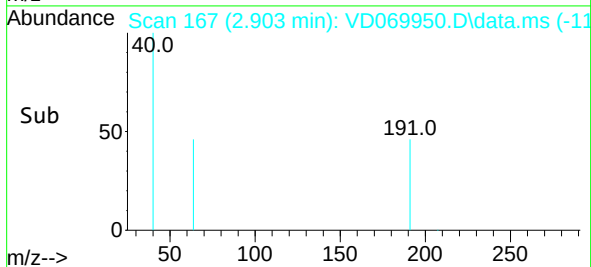
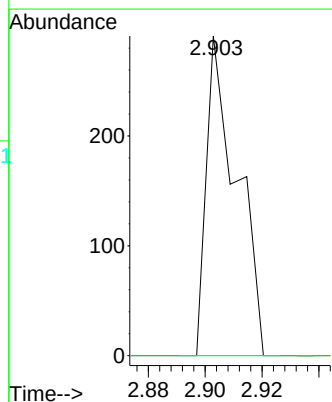
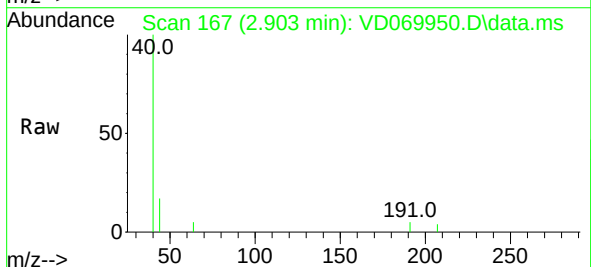
Instrument :
MSVOA_D
ClientSampled :

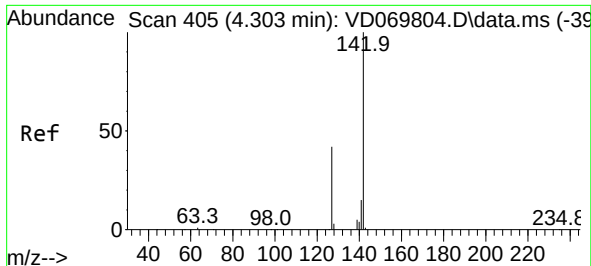
Tgt Ion: 94 Resp: 70
Ion Ratio Lower Upper
94 100
96 98.0 74.8 112.2



#6
Chloroethane
Concen: 2.199 ug/l
RT: 2.903 min Scan# 167
Delta R.T. -0.018 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

Tgt Ion: 64 Resp: 215
Ion Ratio Lower Upper
64 100
66 0.0 27.8 41.6#

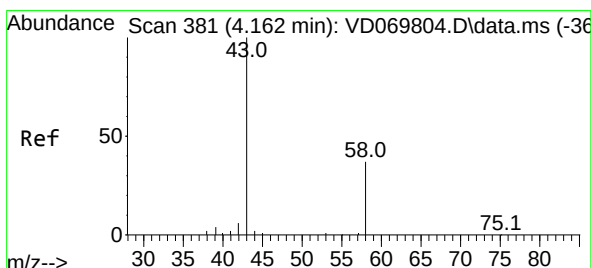
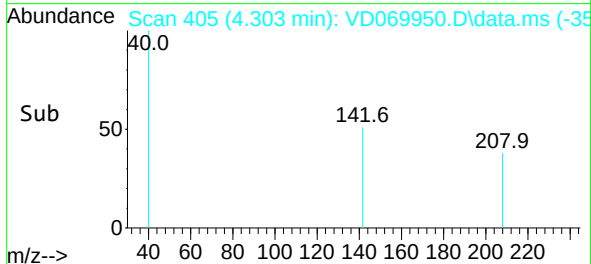
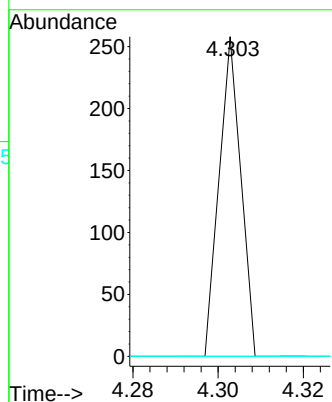
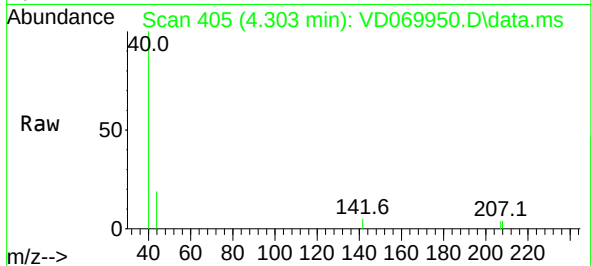




#10
Methyl Iodide
Concen: 4.188 ug/l
RT: 4.303 min Scan# 405
Delta R.T. -0.000 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

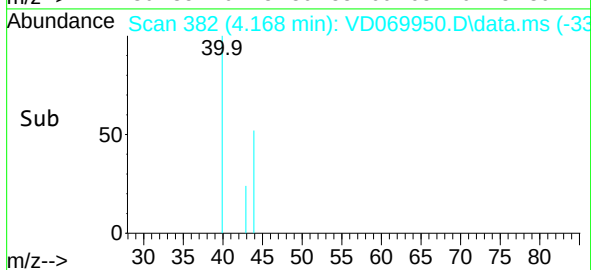
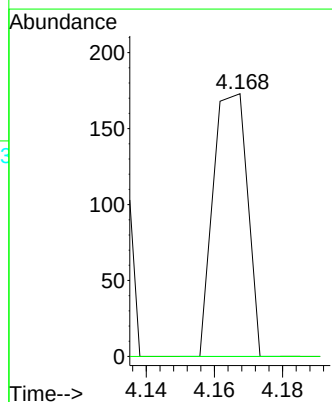
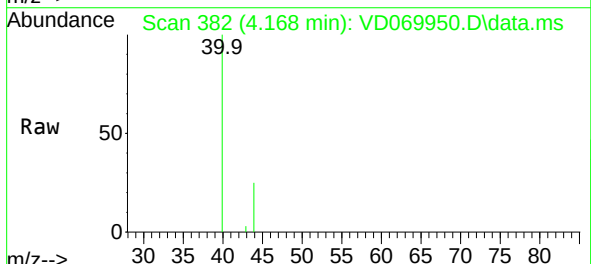
Instrument :
MSVOA_D
ClientSampled :

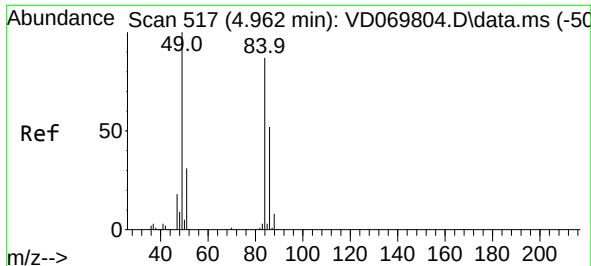
Tgt Ion:142 Resp: 91
Ion Ratio Lower Upper
142 100
127 0.0 35.7 53.5#
141 0.0 12.0 18.0#



#16
Acetone
Concen: 6.150 ug/l
RT: 4.168 min Scan# 382
Delta R.T. 0.006 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

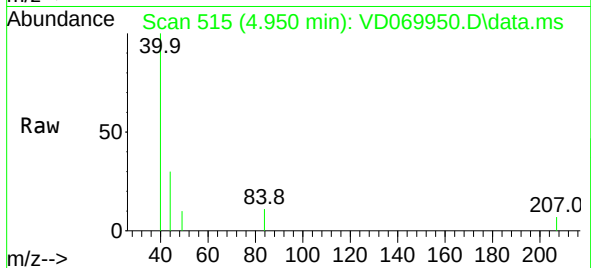
Tgt Ion: 43 Resp: 120
Ion Ratio Lower Upper
43 100
58 0.0 29.4 44.0#



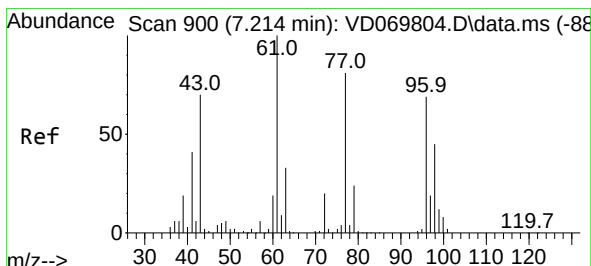
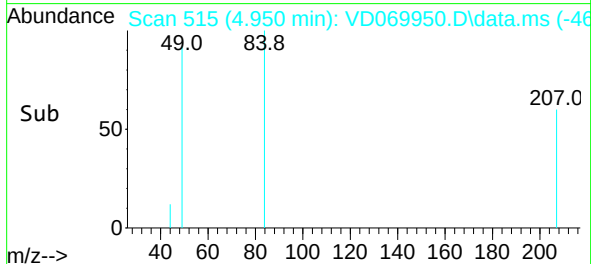
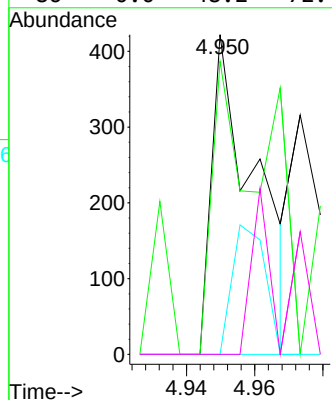


#20
Methylene Chloride
Concen: Below Cal
RT: 4.950 min Scan# 515
Delta R.T. -0.012 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

Instrument :
MSVOA_D
ClientSampled :

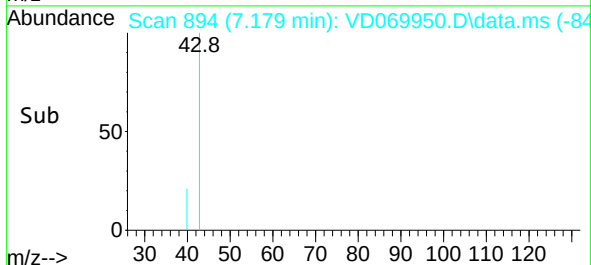
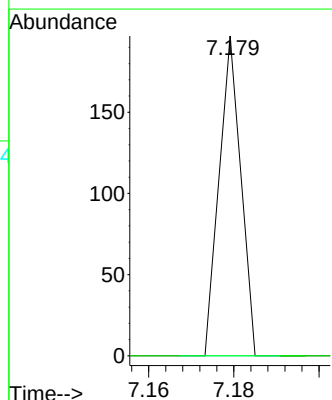
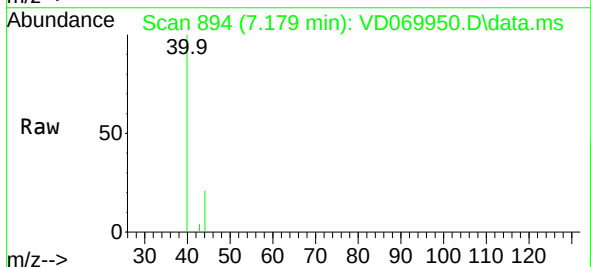


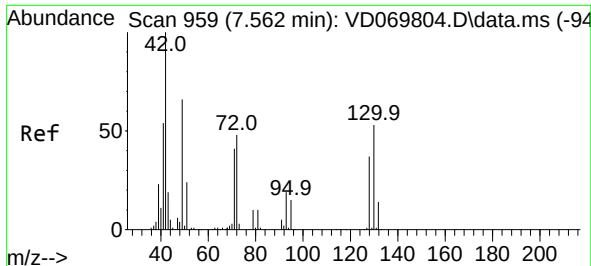
Tgt Ion:	84	Resp:	377
Ion	Ratio	Lower	Upper
84	100		
49	91.7	92.4	138.6#
51	0.0	28.5	42.7#
86	0.0	48.2	72.4#



#25
2-Butanone
Concen: 2.645 ug/l
RT: 7.179 min Scan# 894
Delta R.T. -0.035 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

Tgt Ion:	43	Resp:	70
Ion	Ratio	Lower	Upper
43	100		
72	0.0	22.8	34.2#





#29

Tetrahydrofuran

Concen: 6.192 ug/l

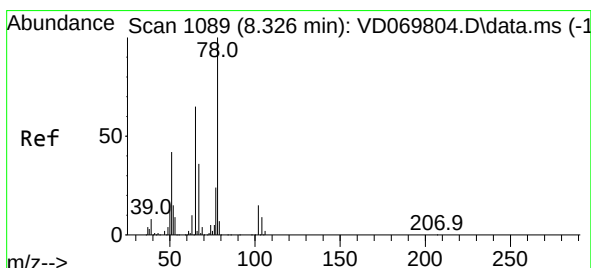
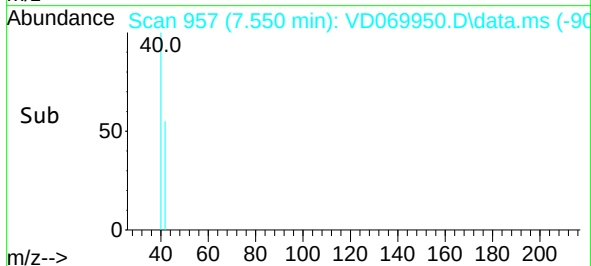
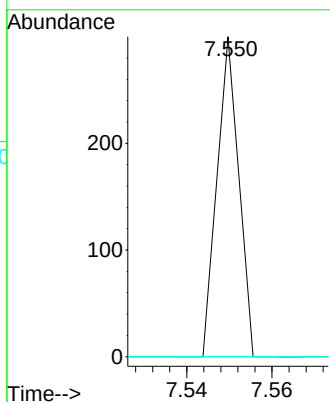
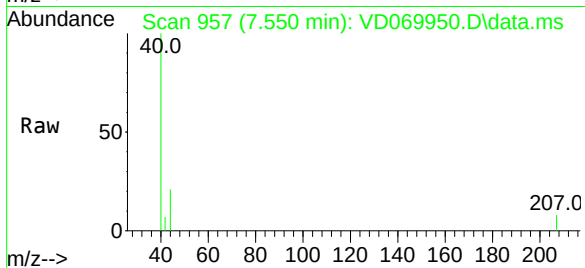
RT: 7.550 min Scan# 957

Delta R.T. -0.012 min

Lab File: VD069950.D

Acq: 02 Aug 2021 12:19

Tgt Ion:	42	Resp:	106
Ion	Ratio	Lower	Upper
42	100		
72	0.0	36.5	54.7#
71	0.0	33.5	50.3#



#33

1,2-Dichloroethane-d4

Concen: 73.035 ug/l

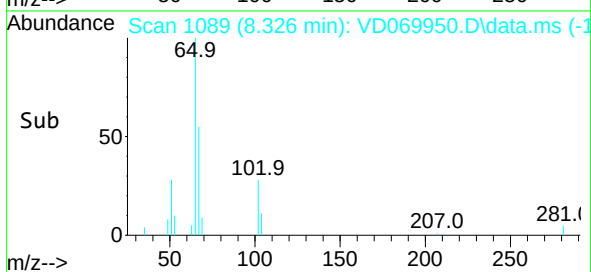
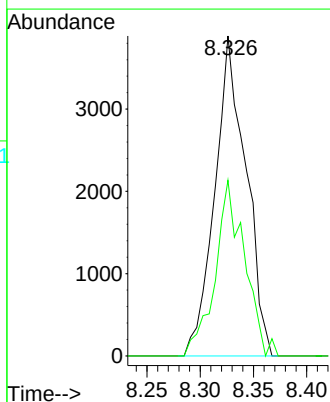
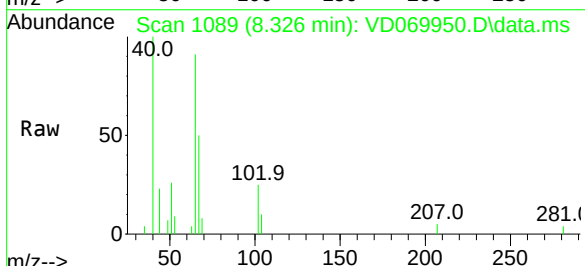
RT: 8.326 min Scan# 1089

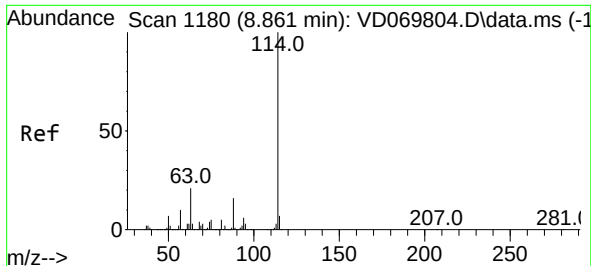
Delta R.T. -0.000 min

Lab File: VD069950.D

Acq: 02 Aug 2021 12:19

Tgt Ion:	65	Resp:	7889
Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	111.2



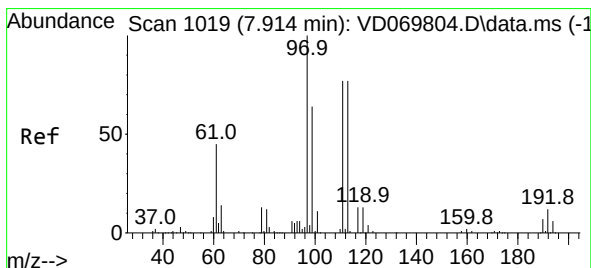
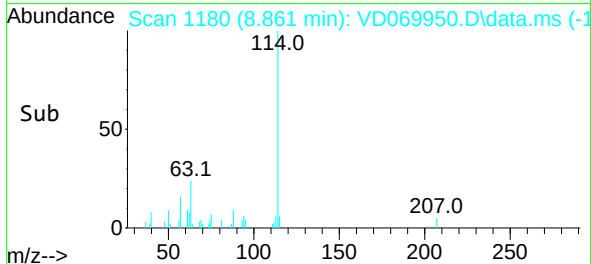
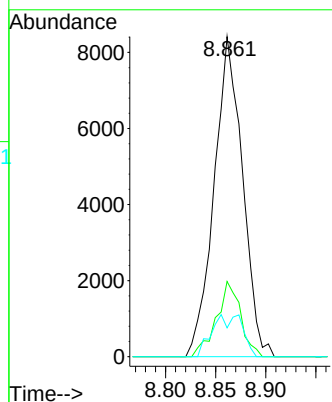
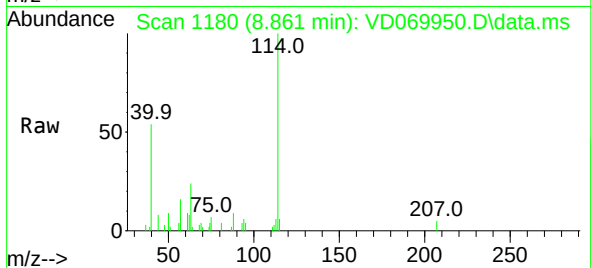


#34

1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. 0.000 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

Instrument :
MSVOA_D
ClientSampleId :

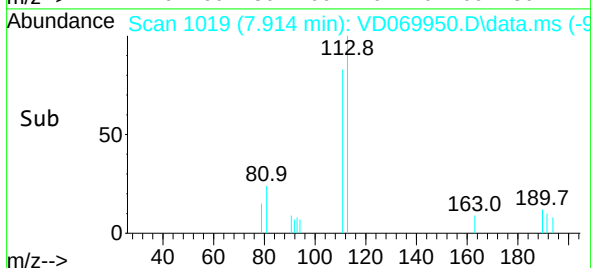
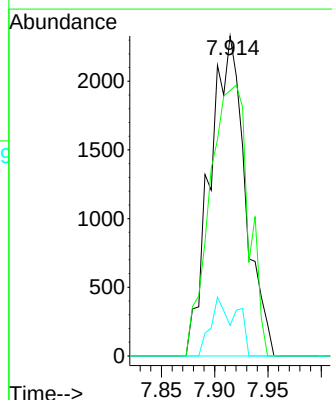
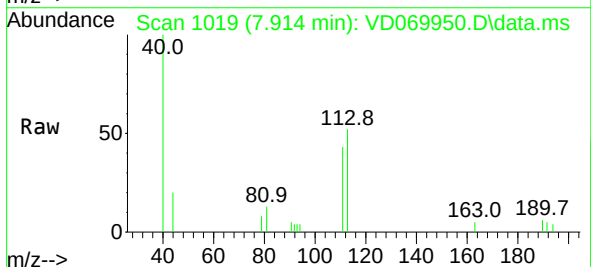
Tgt Ion:	114	Resp:	16554
Ion Ratio	Lower	Upper	
114	100		
63	23.5	0.0	41.6
88	9.0	0.0	31.4

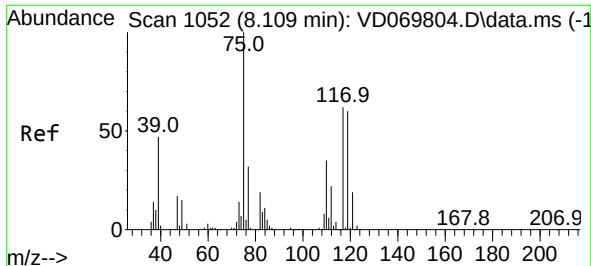


#35

Dibromofluoromethane
Concen: 51.391 ug/l
RT: 7.914 min Scan# 1019
Delta R.T. -0.000 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

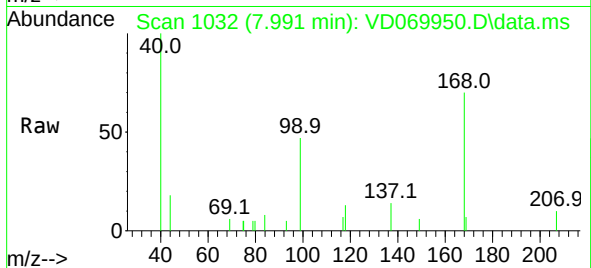
Tgt Ion:	113	Resp:	5363
Ion Ratio	Lower	Upper	
113	100		
111	93.1	80.5	120.7
192	13.4	12.6	19.0



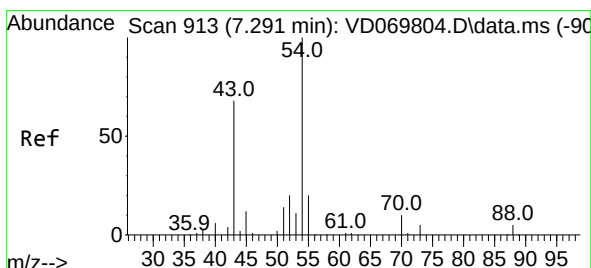
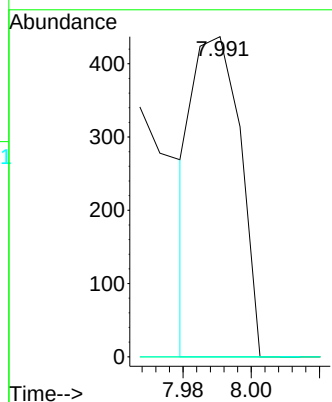
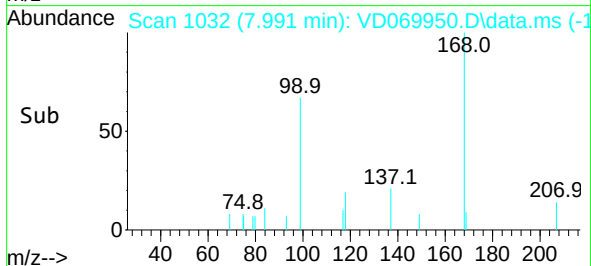


#36
1,1-Dichloropropene
Concen: 2.323 ug/l
RT: 7.991 min Scan# 1032
Delta R.T. -0.118 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

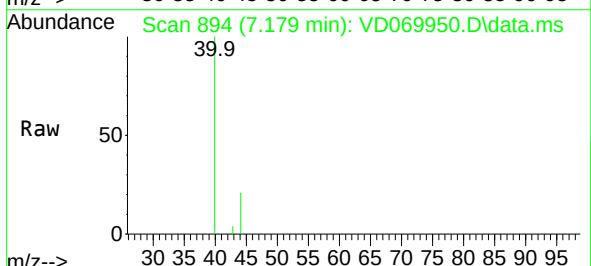
Instrument :
MSVOA_D
ClientSampled :



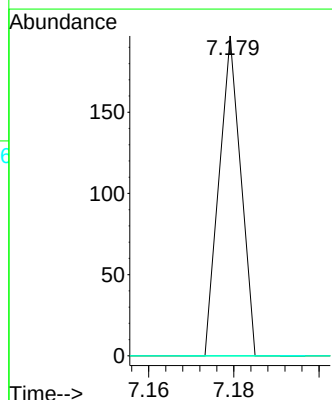
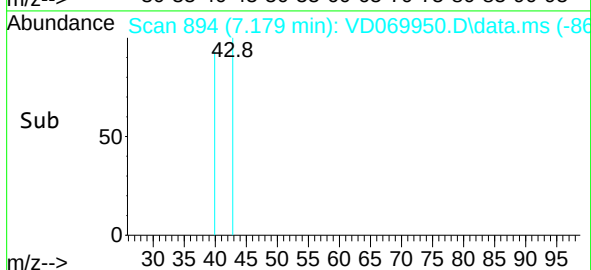
Tgt Ion: 75 Resp: 415
Ion Ratio Lower Upper
75 100
110 0.0 16.9 50.7#
77 0.0 24.9 37.3#

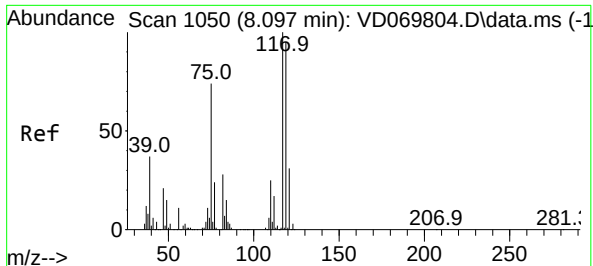


#37
Ethyl Acetate
Concen: 1.076 ug/l
RT: 7.179 min Scan# 894
Delta R.T. -0.112 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19



Tgt Ion: 43 Resp: 70
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.8#
70 0.0 8.9 13.3#

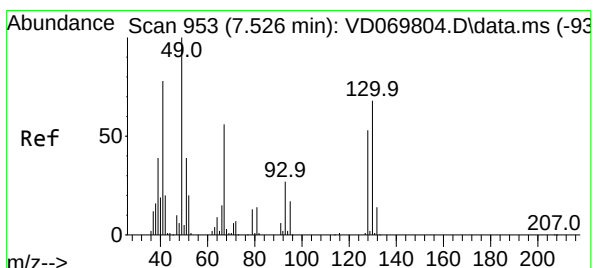
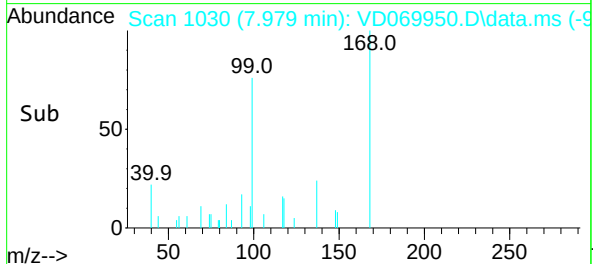
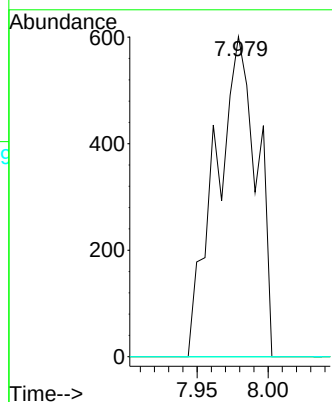
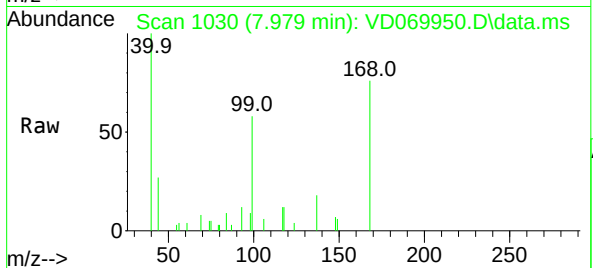




#38
Carbon Tetrachloride
Concen: 7.433 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.118 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

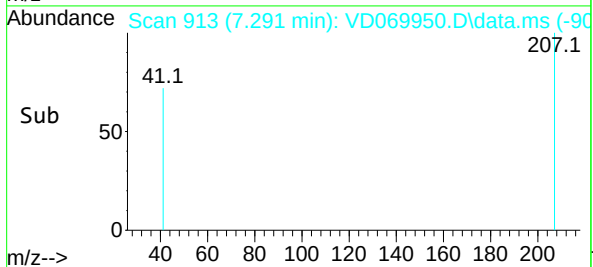
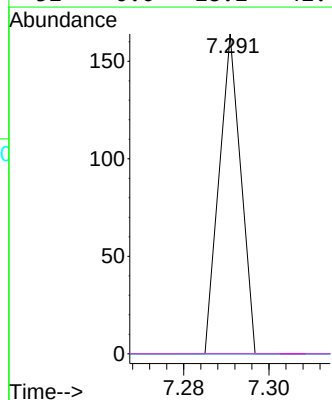
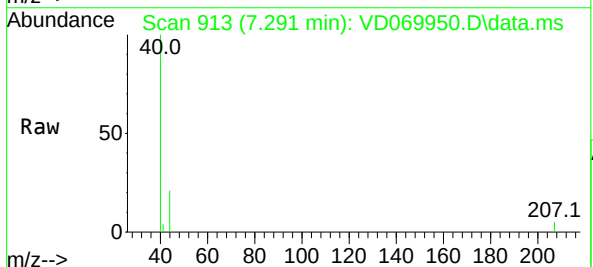
Instrument :
MSVOA_D
ClientSampleId :

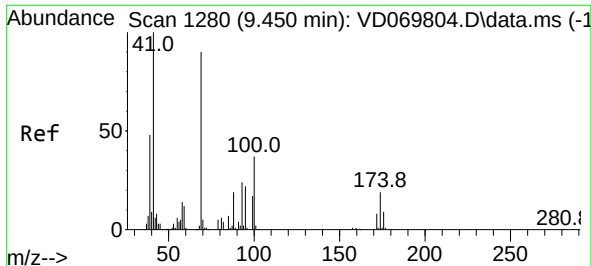
Tgt Ion:117 Resp: 1213
Ion Ratio Lower Upper
117 100
119 0.0 76.2 114.2#
121 0.0 24.5 36.7#



#41
Methacrylonitrile
Concen: 1.699 ug/l
RT: 7.291 min Scan# 913
Delta R.T. -0.235 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

Tgt Ion: 41 Resp: 58
Ion Ratio Lower Upper
41 100
39 0.0 46.7 70.1#
67 0.0 69.3 103.9#
52 0.0 28.2 42.4#

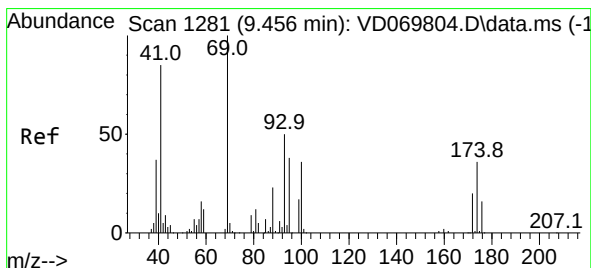
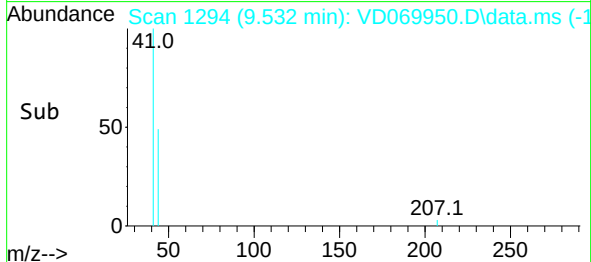
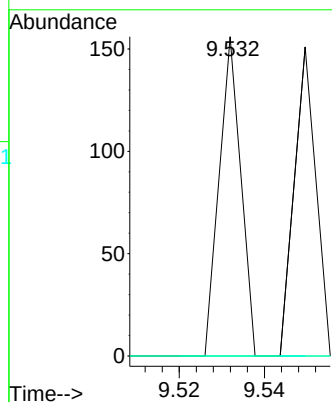
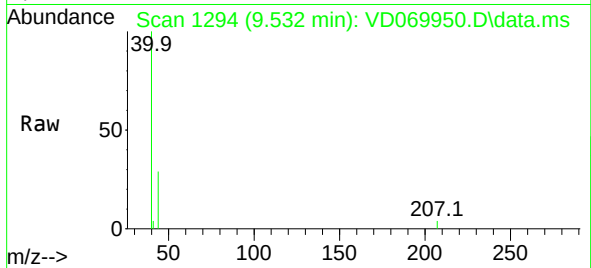




#48
Methyl methacrylate
Concen: 3.584 ug/l
RT: 9.532 min Scan# 1294
Delta R.T. 0.082 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

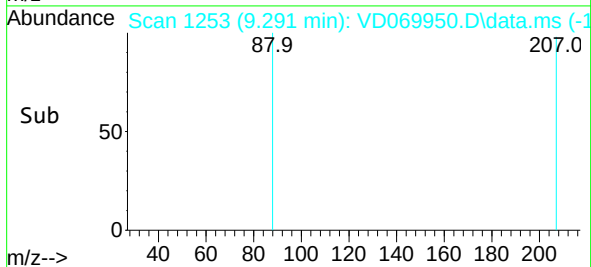
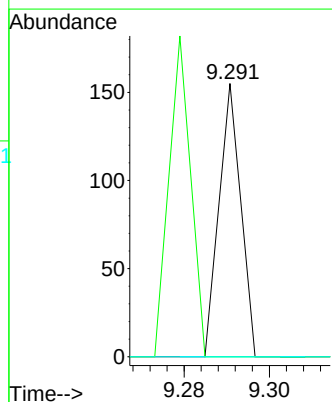
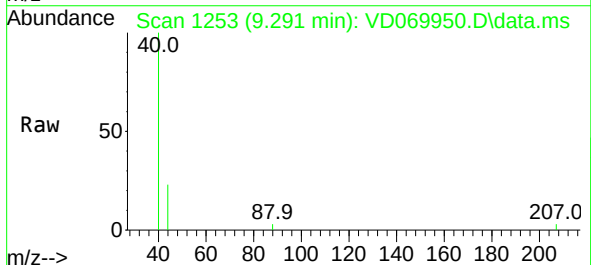
Instrument :
MSVOA_D
ClientSampled :

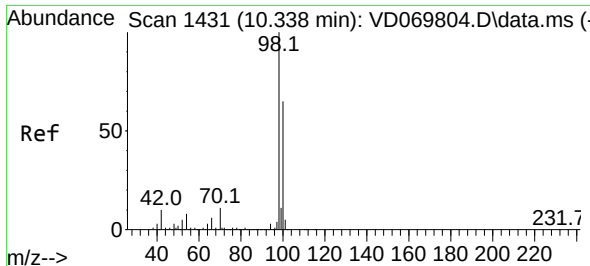
Tgt Ion: 41 Resp: 55
Ion Ratio Lower Upper
41 100
69 0.0 73.4 110.2#
39 0.0 36.6 55.0#



#49
1,4-Dioxane
Concen: 77.904 ug/l
RT: 9.291 min Scan# 1253
Delta R.T. -0.165 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

Tgt Ion: 88 Resp: 55
Ion Ratio Lower Upper
88 100
43 116.4 26.8 40.2#
58 0.0 59.8 89.6#

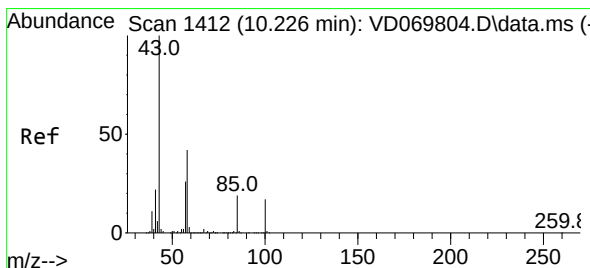
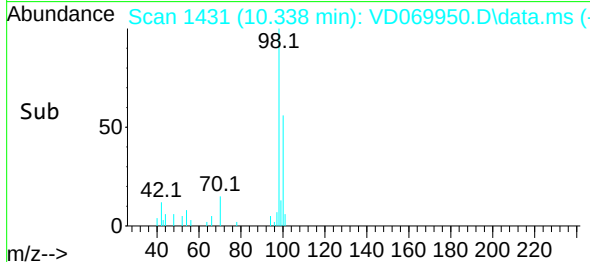
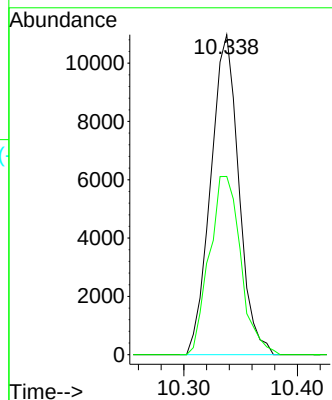
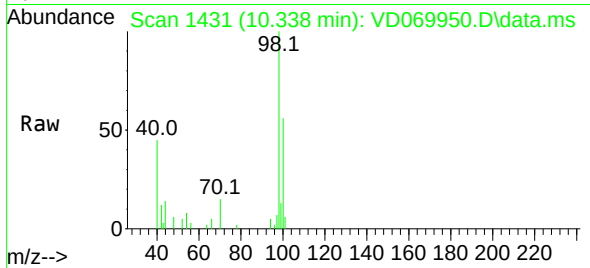




#50
Toluene-d8
Concen: 46.857 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

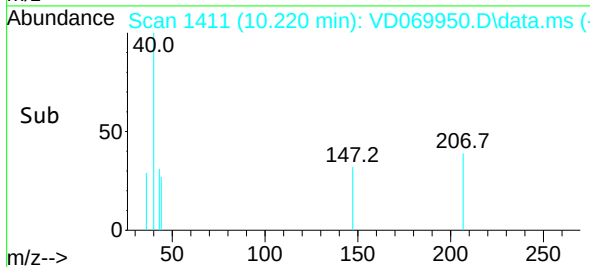
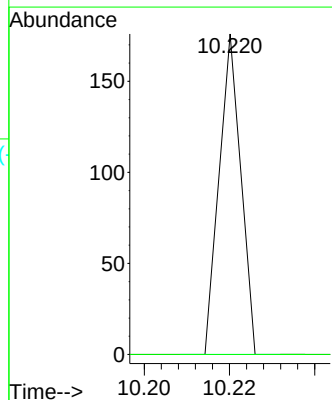
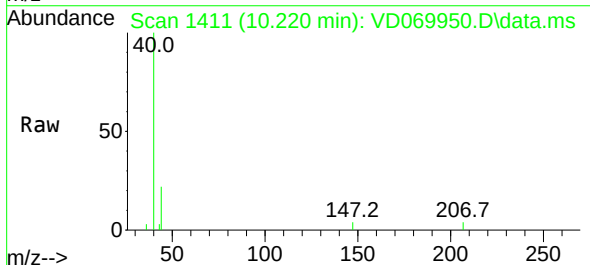
Instrument :
MSVOA_D
ClientSampled :

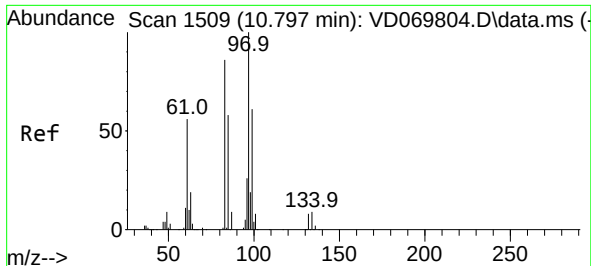
Tgt Ion: 98 Resp: 18855
Ion Ratio Lower Upper
98 100
100 62.2 51.9 77.9



#51
4-Methyl-2-Pentanone
Concen: 1.021 ug/l
RT: 10.220 min Scan# 1411
Delta R.T. -0.006 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

Tgt Ion: 43 Resp: 62
Ion Ratio Lower Upper
43 100
58 0.0 33.7 50.5#

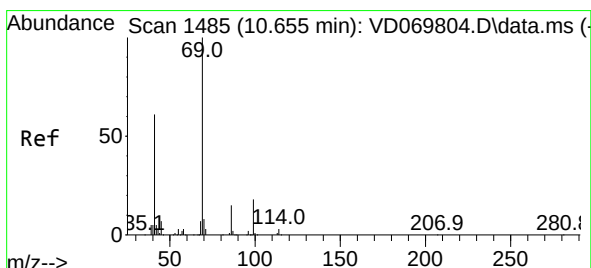
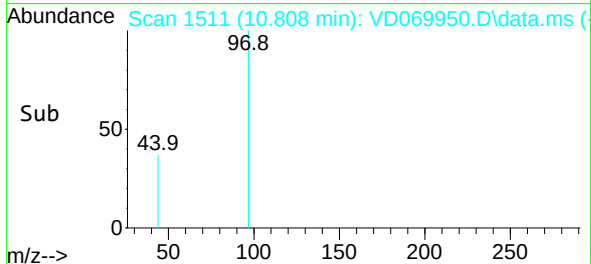
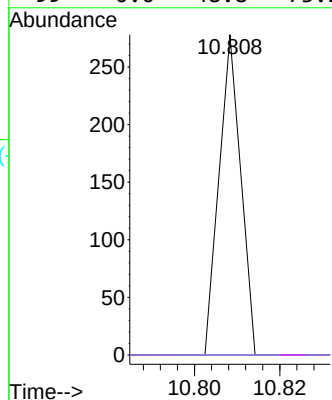
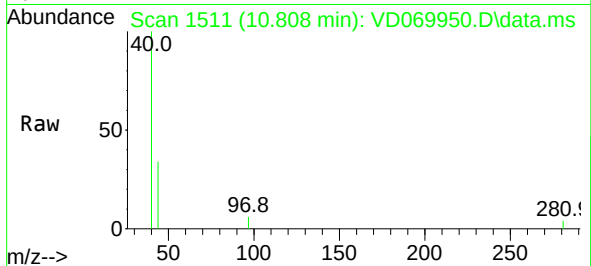




#55
1,1,2-Trichloroethane
Concen: 1.038 ug/l
RT: 10.808 min Scan# 1511
Delta R.T. 0.012 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

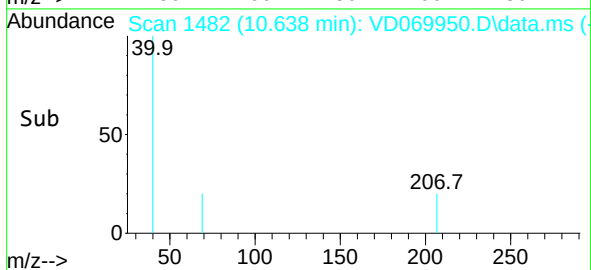
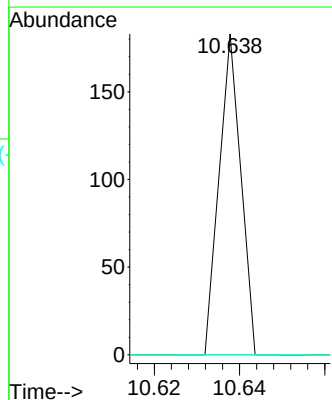
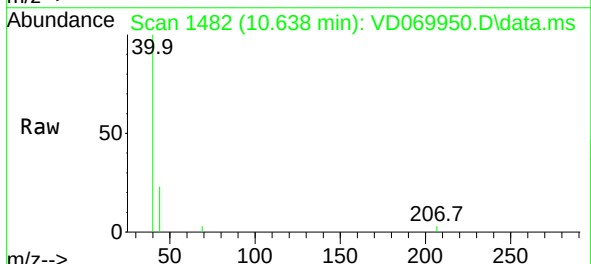
Instrument :
MSVOA_D
ClientSampleId :

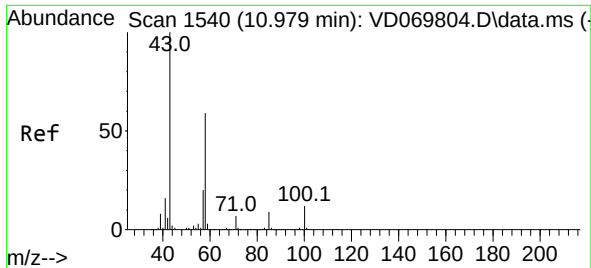
Tgt Ion: 97 Resp: 98
Ion Ratio Lower Upper
97 100
83 0.0 69.1 103.7#
85 0.0 46.2 69.2#
99 0.0 48.8 73.2#



#56
Ethyl methacrylate
Concen: 4.410 ug/l
RT: 10.638 min Scan# 1482
Delta R.T. -0.017 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

Tgt Ion: 69 Resp: 65
Ion Ratio Lower Upper
69 100
41 0.0 50.2 75.2#
39 0.0 22.0 33.0#

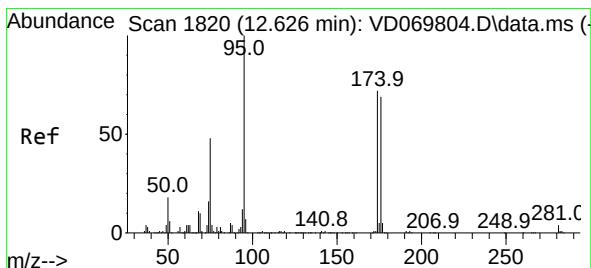
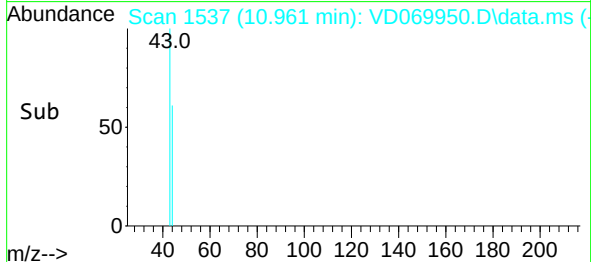
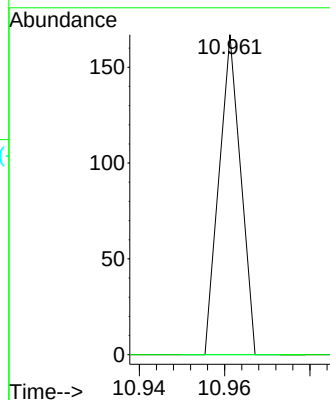
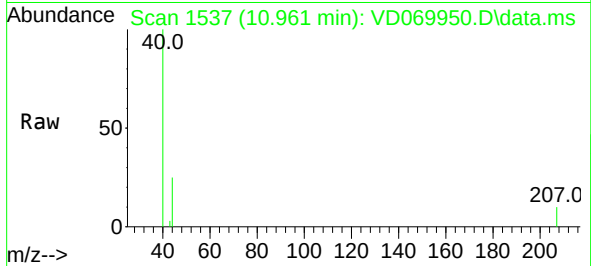




#59
2-Hexanone
Concen: 1.470 ug/l
RT: 10.961 min Scan# 1537
Delta R.T. -0.018 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

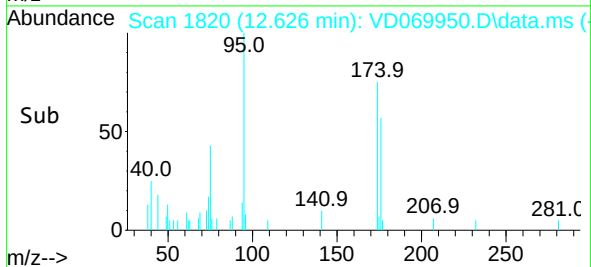
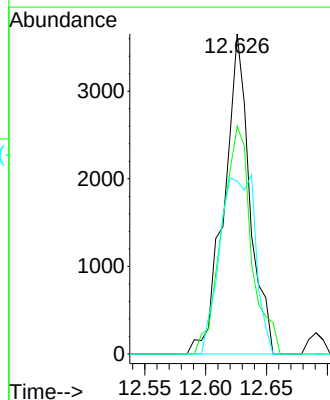
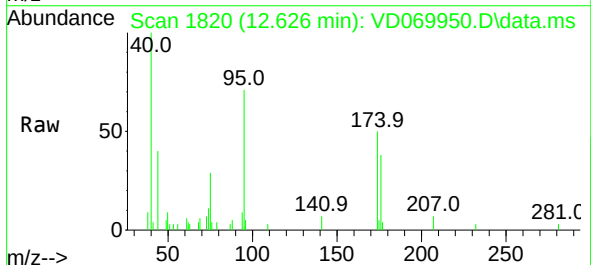
Instrument :
MSVOA_D
ClientSampled :

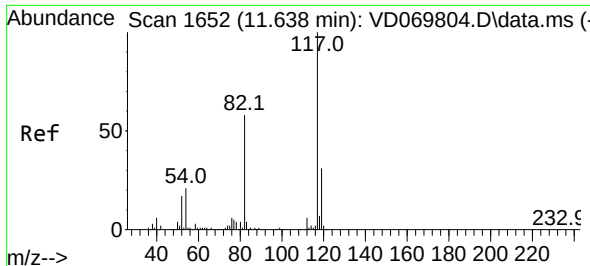
Tgt Ion: 43 Resp: 59
Ion Ratio Lower Upper
43 100
58 0.0 29.4 88.3#



#62
4-Bromofluorobenzene
Concen: 39.850 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

Tgt Ion: 95 Resp: 5359
Ion Ratio Lower Upper
95 100
174 81.9 0.0 142.6
176 77.3 0.0 134.2

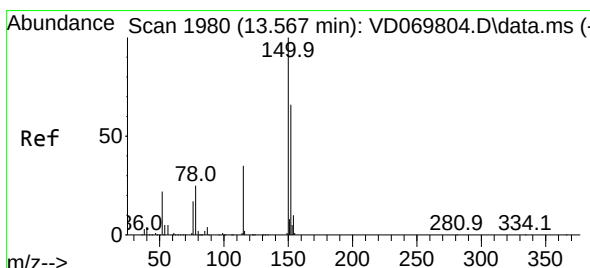
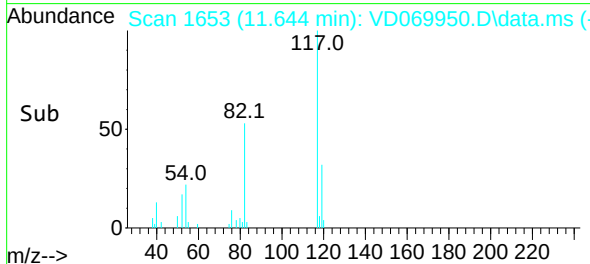
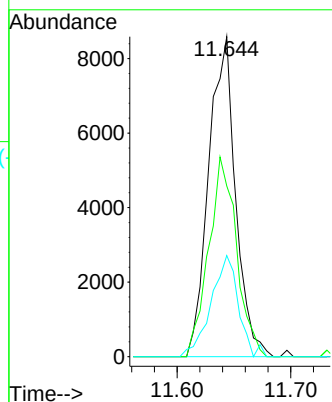
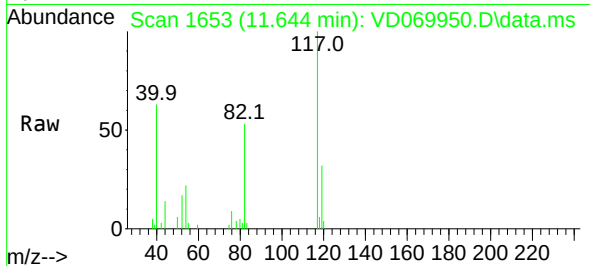




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.644 min Scan# 1653
Delta R.T. 0.006 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

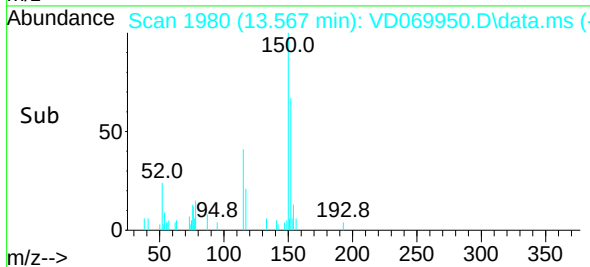
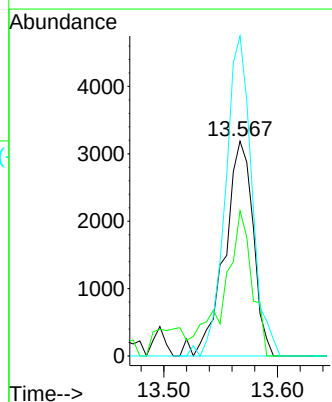
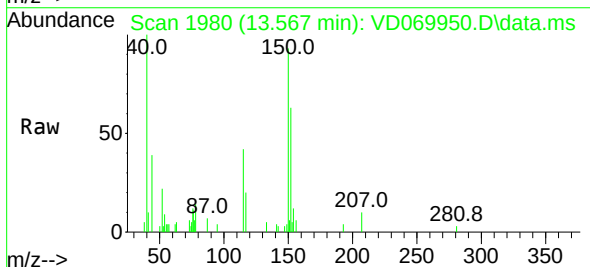
Instrument :
MSVOA_D
ClientSampleId :

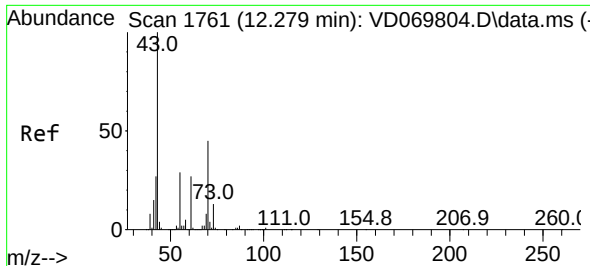
Tgt Ion:117 Resp: 14136
Ion Ratio Lower Upper
117 100
82 53.3 46.3 69.5
119 31.6 24.7 37.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. -0.000 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

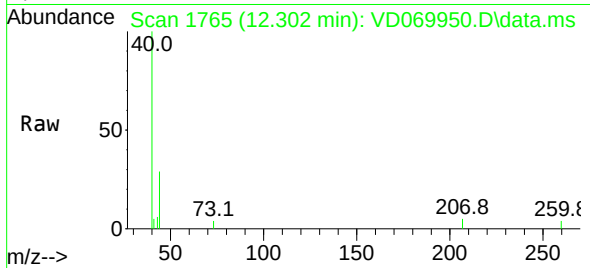
Tgt Ion:152 Resp: 5574
Ion Ratio Lower Upper
152 100
115 67.0 31.1 93.3
150 136.7 0.0 343.0



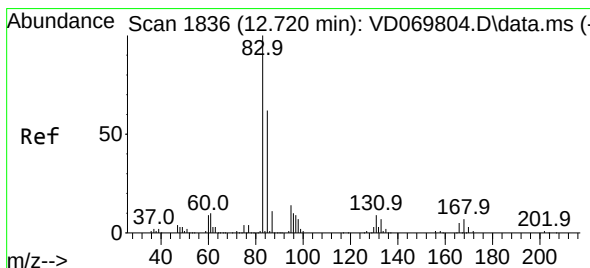
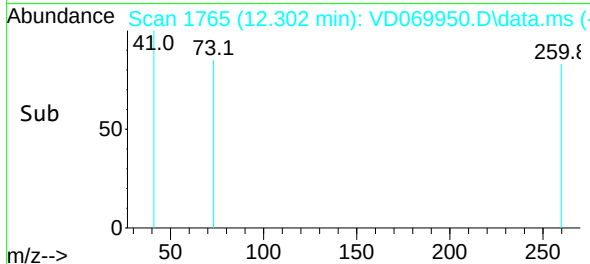
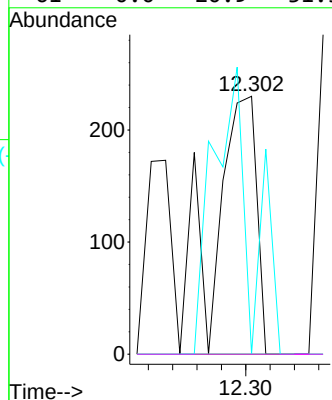


#74
N-amy1 acetate
Concen: 3.387 ug/l
RT: 12.302 min Scan# 1765
Delta R.T. 0.023 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

Instrument :
MSVOA_D
ClientSampled :

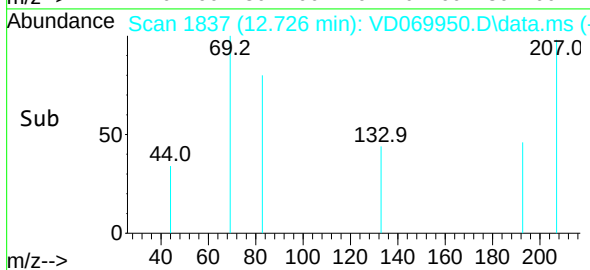
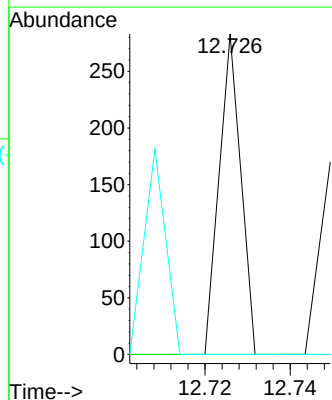
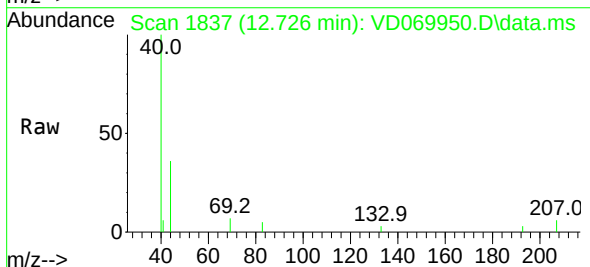


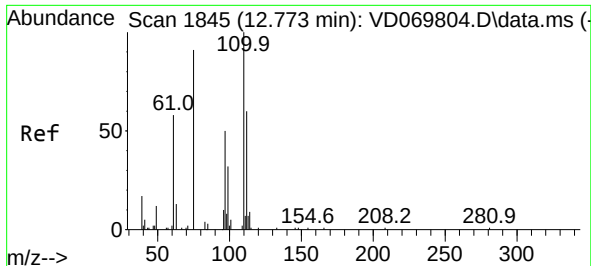
Tgt Ion:	43	Resp:	279
Ion	Ratio	Lower	Upper
43	100		
70	0.0	37.9	56.9#
55	100.7	23.7	35.5#
61	0.0	20.9	31.3#



#75
1,1,2,2-Tetrachloroethane
Concen: 1.250 ug/l
RT: 12.726 min Scan# 1837
Delta R.T. 0.006 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

Tgt Ion:	83	Resp:	100
Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.9	14.6#
85	0.0	31.8	95.4#

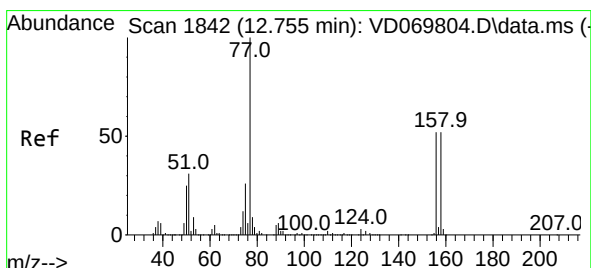
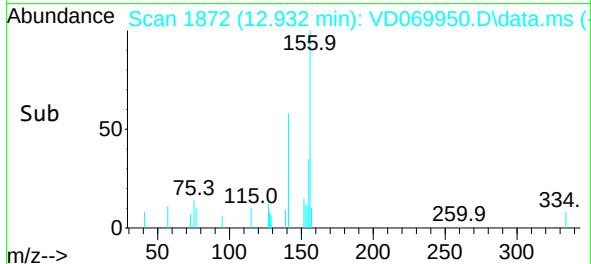
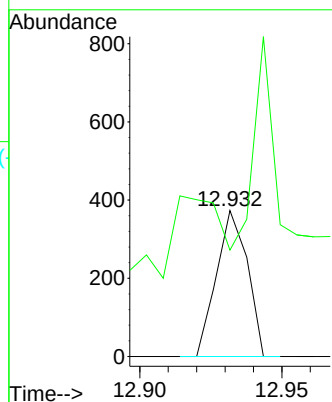
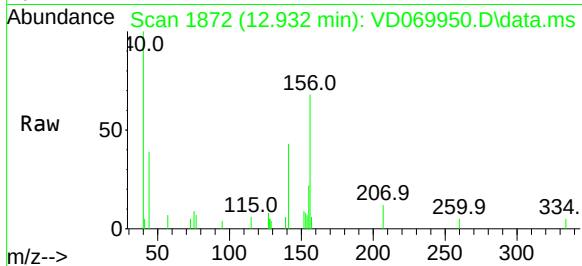




#76
1,2,3-Trichloropropane
Concen: 4.760 ug/l
RT: 12.932 min Scan# 1872
Delta R.T. 0.159 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

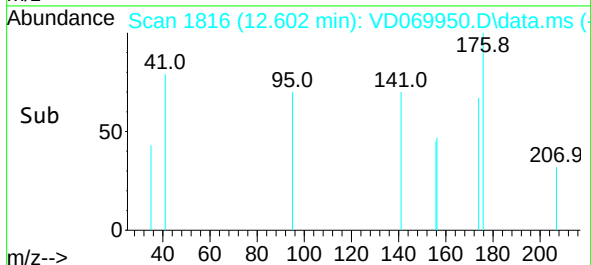
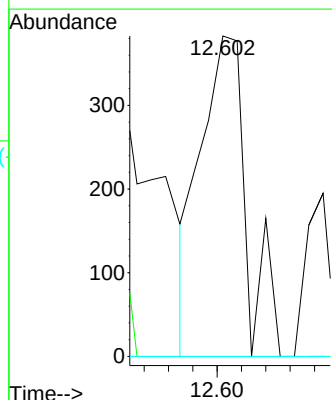
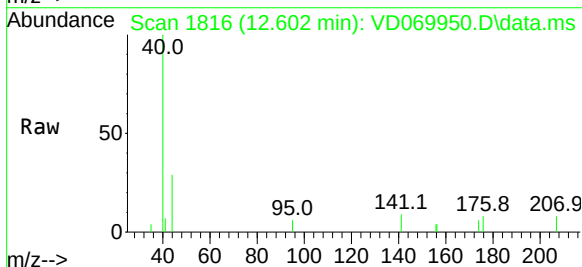
Instrument :
MSVOA_D
ClientSampled :

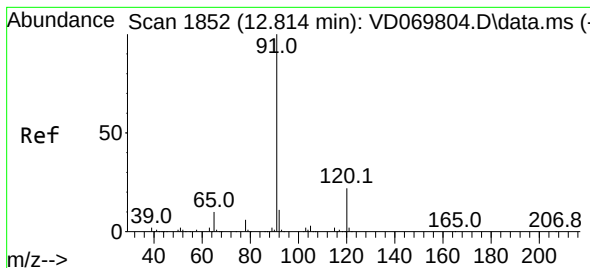
Tgt Ion: 75 Resp: 282
Ion Ratio Lower Upper
75 100
77 265.6 181.5 544.5



#77
Bromobenzene
Concen: 5.587 ug/l
RT: 12.602 min Scan# 1816
Delta R.T. -0.153 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

Tgt Ion:156 Resp: 504
Ion Ratio Lower Upper
156 100
77 0.0 107.1 321.3#
158 0.0 48.1 144.3#

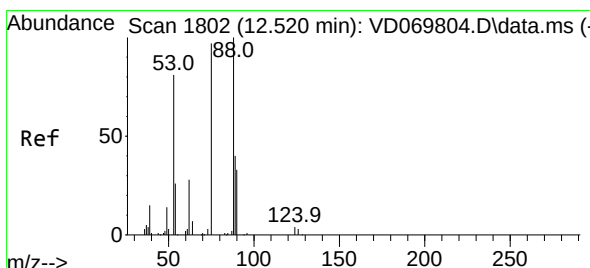
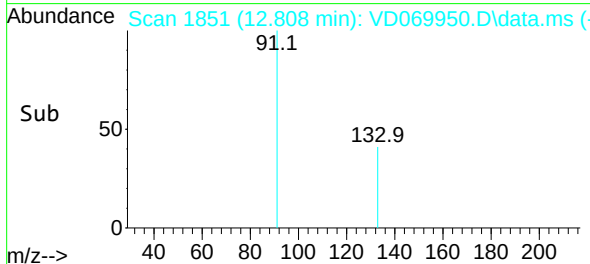
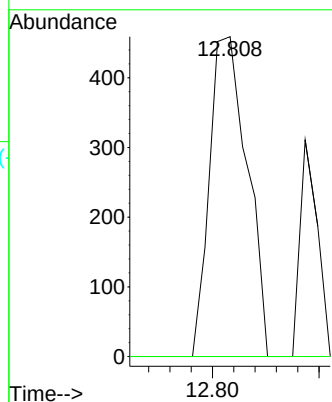
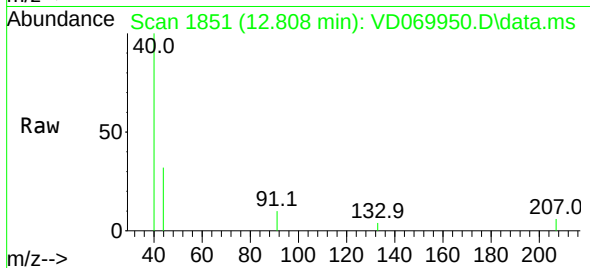




#78
n-propylbenzene
Concen: 1.096 ug/l
RT: 12.808 min Scan# 1851
Delta R.T. -0.006 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

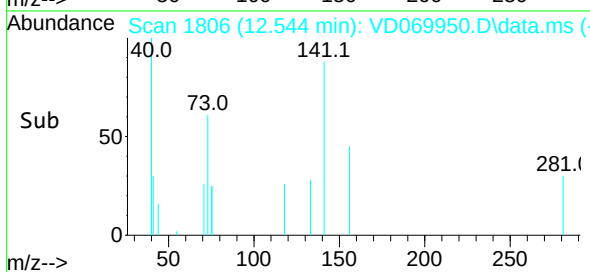
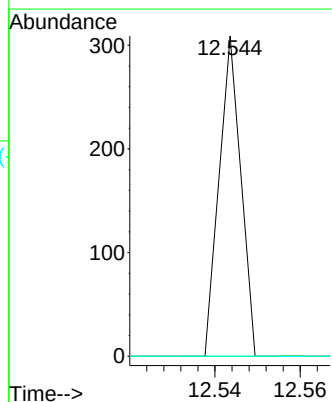
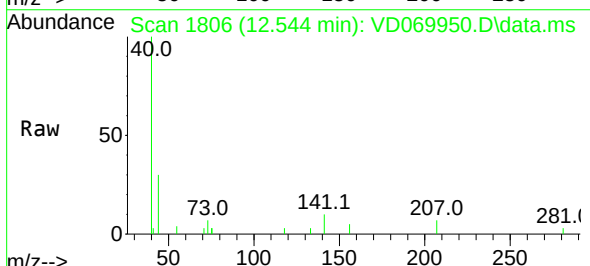
Instrument :
MSVOA_D
ClientSampled :

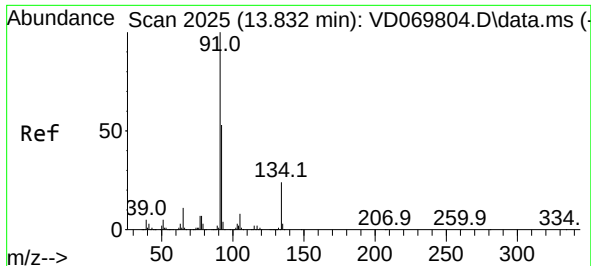
Tgt Ion: 91 Resp: 564
Ion Ratio Lower Upper
91 100
120 0.0 10.9 32.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 5.581 ug/l
RT: 12.544 min Scan# 1806
Delta R.T. 0.023 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

Tgt Ion: 75 Resp: 109
Ion Ratio Lower Upper
75 100
53 0.0 67.2 100.8#
89 0.0 35.8 53.6#

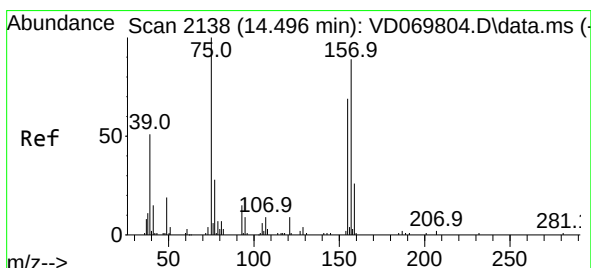
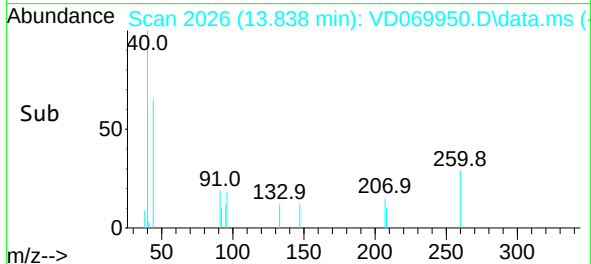
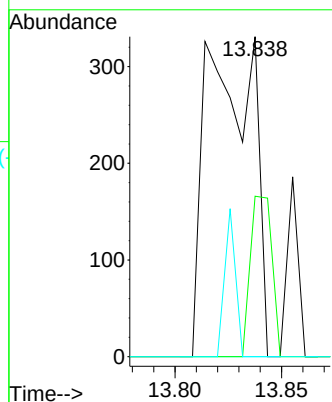
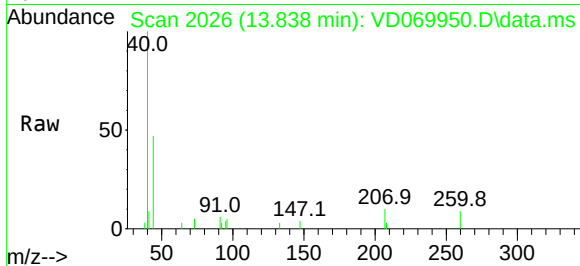




#89
n-Butylbenzene
Concen: 1.442 ug/l
RT: 13.838 min Scan# 2026
Delta R.T. 0.006 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

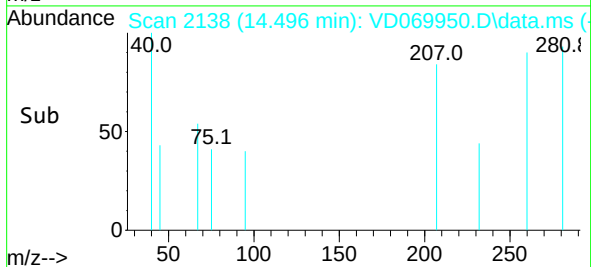
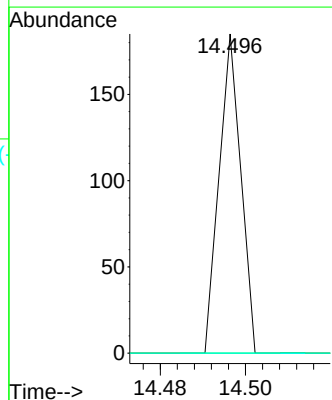
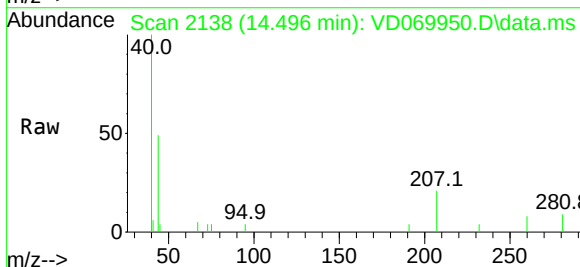
Instrument :
MSVOA_D
ClientSampleId :

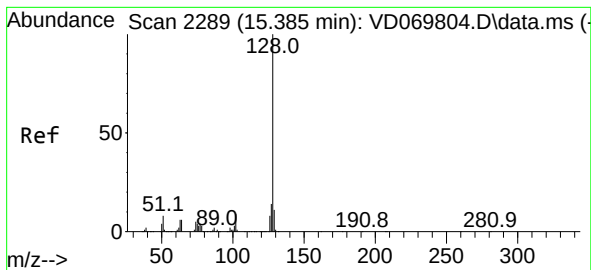
Tgt Ion:	91	Resp:	509
Ion	Ratio	Lower	Upper
91	100		
92	22.8	26.6	79.7#
134	10.6	11.9	35.7#



#92
1,2-Dibromo-3-Chloropropane
Concen: 5.644 ug/l
RT: 14.496 min Scan# 2138
Delta R.T. -0.000 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

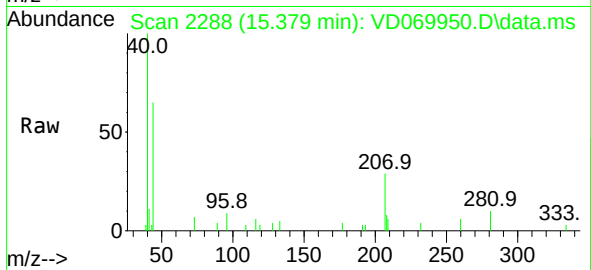
Tgt Ion:	75	Resp:	65
Ion	Ratio	Lower	Upper
75	100		
155	0.0	36.3	108.9#
157	0.0	47.0	141.0#





#95
Naphthalene
Concen: 5.616 ug/l
RT: 15.379 min Scan# 2288
Delta R.T. -0.006 min
Lab File: VD069950.D
Acq: 02 Aug 2021 12:19

Instrument :
MSVOA_D
ClientSampleId :



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

