

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD082321\
 Data File : VD070227.D
 Acq On : 23 Aug 2021 18:16
 Operator : VA/SY
 Sample : M3514-01
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Aug 24 01:32:16 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D081321S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 14 02:33:51 2021
 Response via : Initial Calibration

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

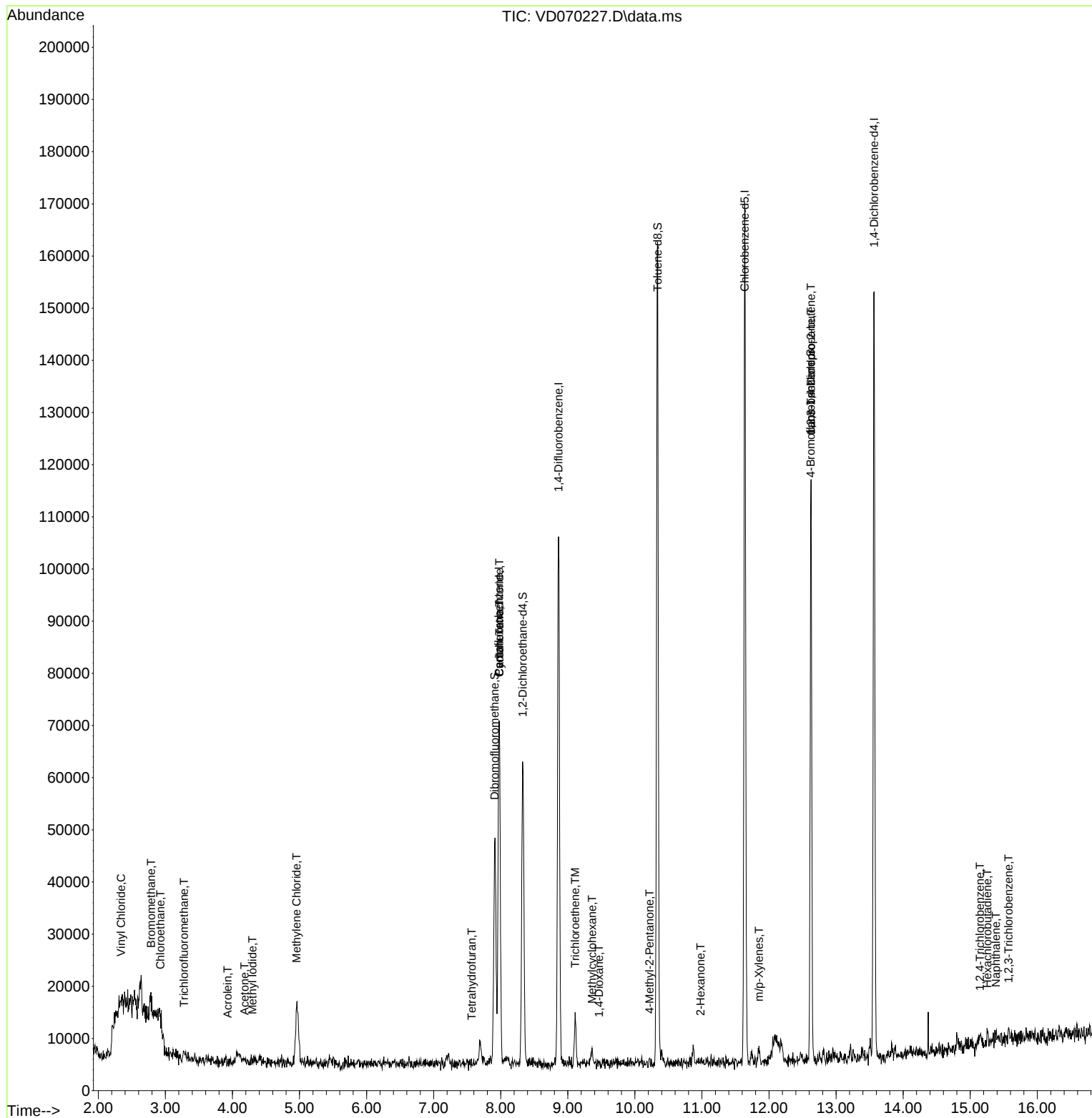
Internal Standards						
1) Pentafluorobenzene	7.973	168	46436	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	87535	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	94655	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	40058	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	47768	87.461	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 174.920%#			
35) Dibromofluoromethane	7.909	113	31760	56.159	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 112.320%			
50) Toluene-d8	10.338	98	111630	50.750	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 101.500%			
62) 4-Bromofluorobenzene	12.620	95	37447	51.687	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 103.380%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.985	85	428	Below Cal		100
3) Chloromethane	2.209	50	1606	Below Cal	#	59
4) Vinyl Chloride	2.338	62	1327	1.689	ug/l #	75
5) Bromomethane	2.785	94	3493	4.180	ug/l	89
6) Chloroethane	2.926	64	686	1.366	ug/l #	78
7) Trichlorofluoromethane	3.279	101	1164	1.233	ug/l #	70
10) Methyl Iodide	4.297	142	1647	3.000	ug/l #	68
13) Acrolein	3.926	56	64	1.841	ug/l #	58
16) Acetone	4.179	43	1882	18.706	ug/l #	41
20) Methylene Chloride	4.956	84	9254	6.385	ug/l #	80
29) Tetrahydrofuran	7.567	42	122	1.355	ug/l #	32
31) Cyclohexane	7.979	56	2358	2.181	ug/l #	71
38) Carbon Tetrachloride	7.979	117	5243	6.133	ug/l #	24
39) Methylcyclohexane	9.361	83	1218	1.111	ug/l #	52
44) Trichloroethene	9.108	130	3781	5.730	ug/l	59
49) 1,4-Dioxane	9.467	88	62	16.533	ug/l #	1
51) 4-Methyl-2-Pentanone	10.220	43	385	1.160	ug/l #	53
59) 2-Hexanone	10.979	43	480	2.159	ug/l #	21
68) m/p-Xylenes	11.849	106	1359	1.003	ug/l #	61
76) 1,2,3-Trichloropropane	12.626	75	18902	46.529	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.626	75	18902	120.772	ug/l #	17
93) 1,2,4-Trichlorobenzene	15.143	180	891	1.357	ug/l	78
94) Hexachlorobutadiene	15.255	225	422	1.088	ug/l	96
95) Naphthalene	15.385	128	2038	1.706	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.573	180	884	1.543	ug/l #	12

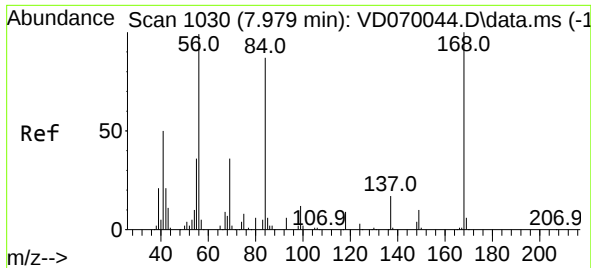
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VD070227.D
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Response via : Initial Calibration

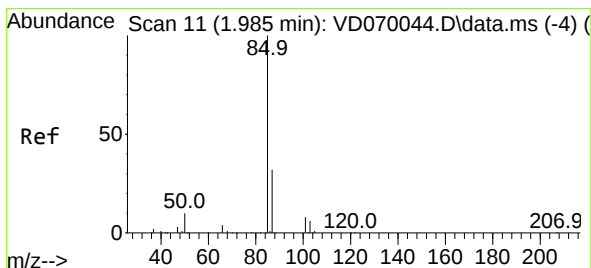
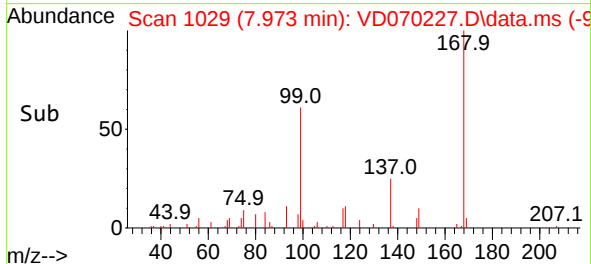
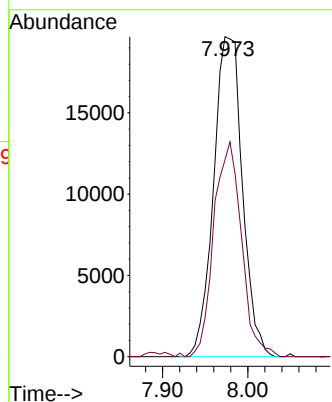
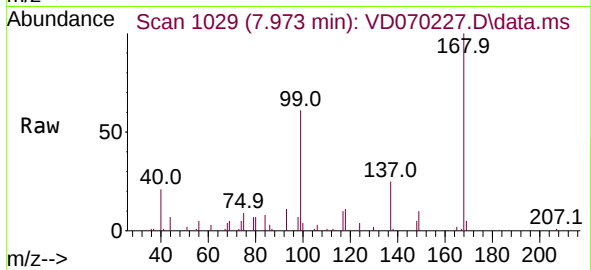




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.006 min
Lab File: VD070227.D
Acq: 23 Aug 2021 18:16

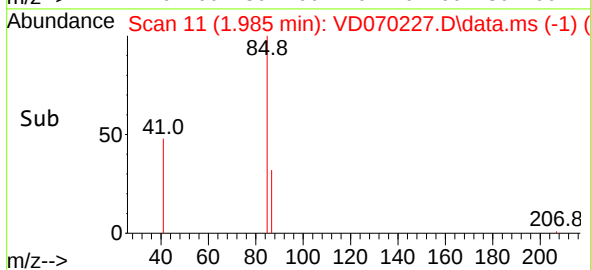
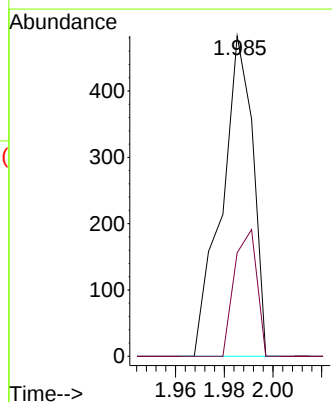
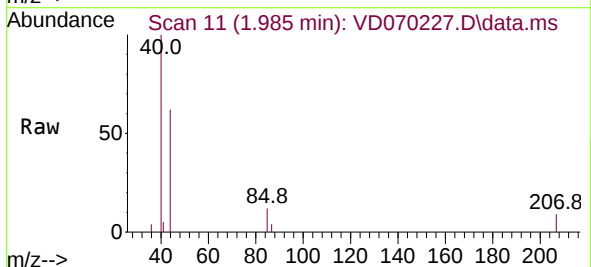
Instrument :
MSVOA_D
ClientSampled :

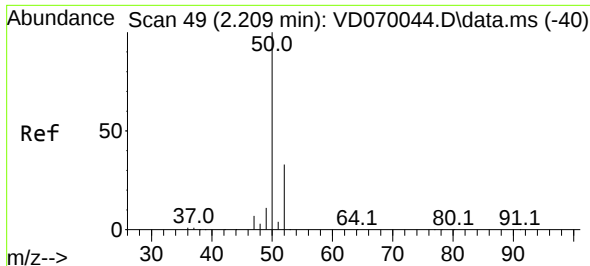
Tgt Ion:168 Resp: 46436
Ion Ratio Lower Upper
168 100
99 61.5 50.3 75.5



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.985 min Scan# 11
Delta R.T. 0.000 min
Lab File: VD070227.D
Acq: 23 Aug 2021 18:16

Tgt Ion: 85 Resp: 428
Ion Ratio Lower Upper
85 100
87 32.3 16.2 48.6

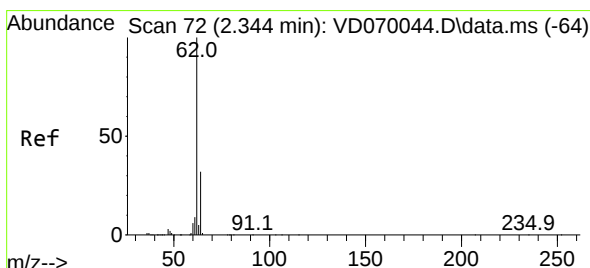
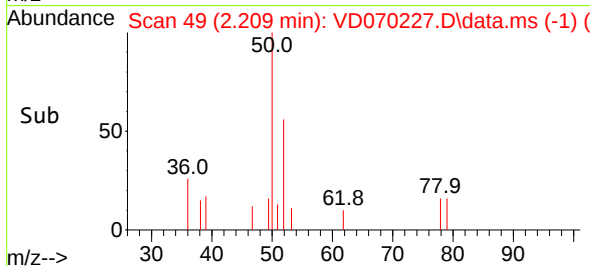
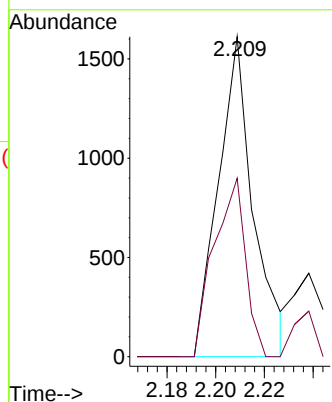
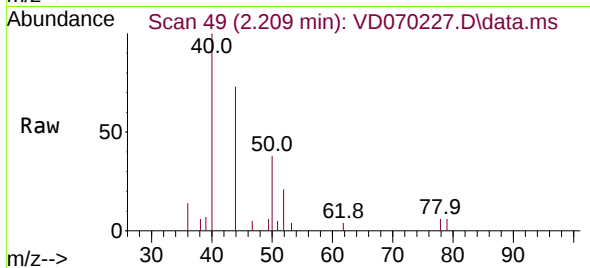




#3
Chloromethane
Concen: Below Cal
RT: 2.209 min Scan# 49
Delta R.T. -0.000 min
Lab File: VD070227.D
Acq: 23 Aug 2021 18:16

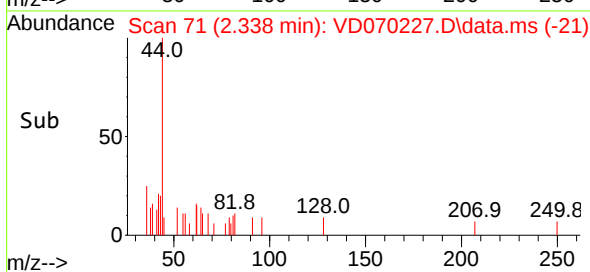
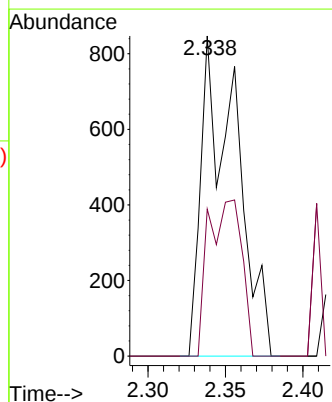
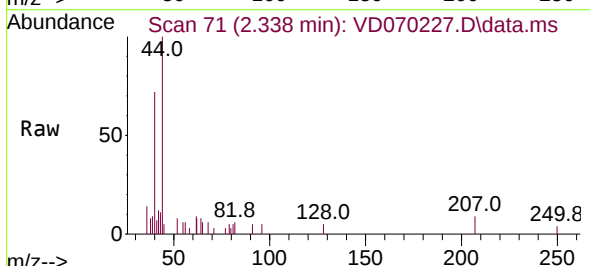
Instrument :
MSVOA_D
ClientSampleID :

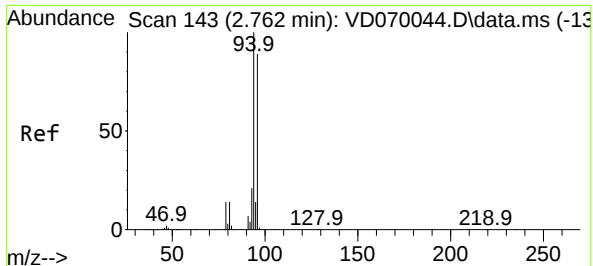
Tgt Ion: 50 Resp: 1606
Ion Ratio Lower Upper
50 100
52 55.8 26.3 39.5#



#4
Vinyl Chloride
Concen: 1.689 ug/l
RT: 2.338 min Scan# 71
Delta R.T. -0.006 min
Lab File: VD070227.D
Acq: 23 Aug 2021 18:16

Tgt Ion: 62 Resp: 1327
Ion Ratio Lower Upper
62 100
64 45.9 25.7 38.5#

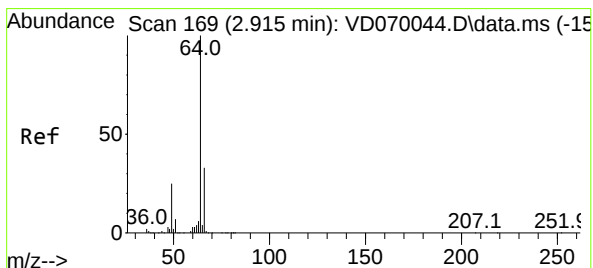
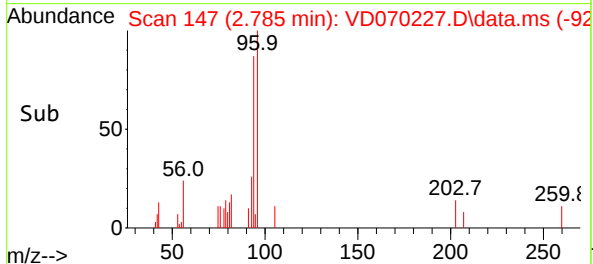
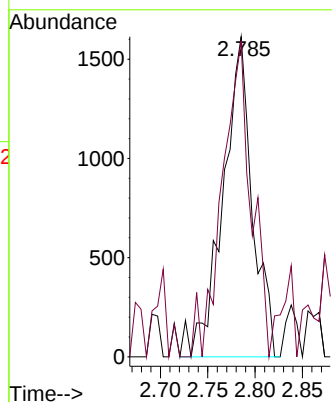
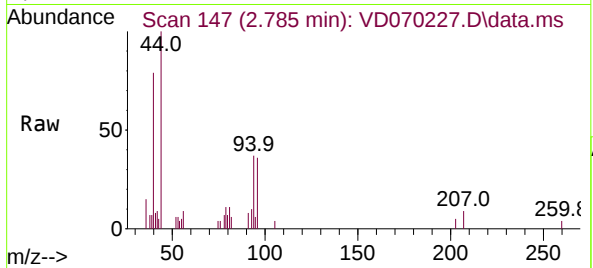




#5
Bromomethane
Concen: 4.180 ug/l
RT: 2.785 min Scan# 147
Delta R.T. 0.023 min
Lab File: VD070227.D
Acq: 23 Aug 2021 18:16

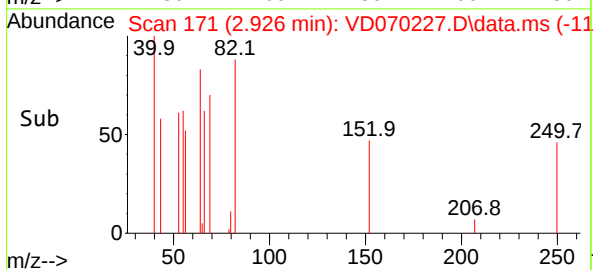
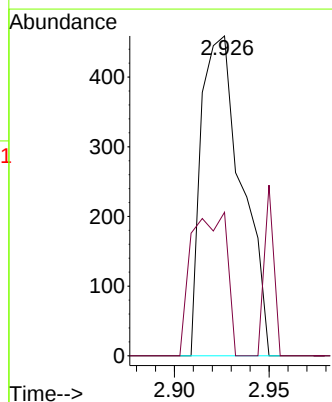
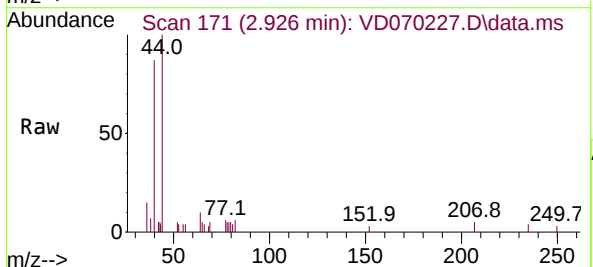
Instrument :
MSVOA_D
ClientSampleId :

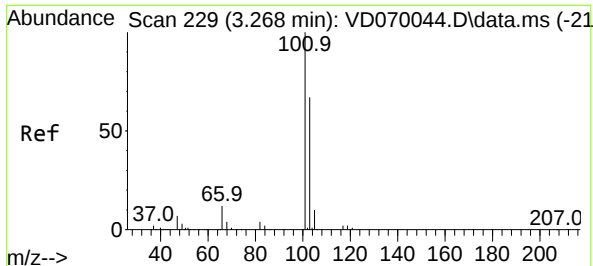
Tgt Ion: 94 Resp: 3493
Ion Ratio Lower Upper
94 100
96 98.7 70.9 106.3



#6
Chloroethane
Concen: 1.366 ug/l
RT: 2.926 min Scan# 171
Delta R.T. 0.012 min
Lab File: VD070227.D
Acq: 23 Aug 2021 18:16

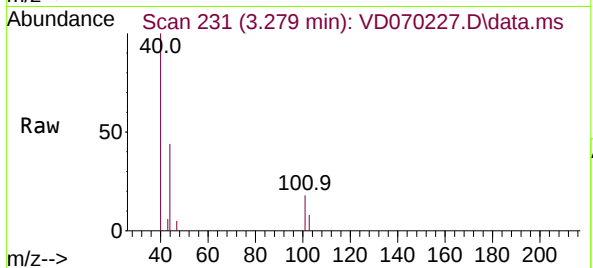
Tgt Ion: 64 Resp: 686
Ion Ratio Lower Upper
64 100
66 44.9 26.0 39.0#



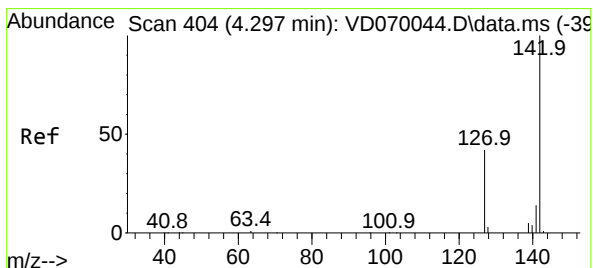
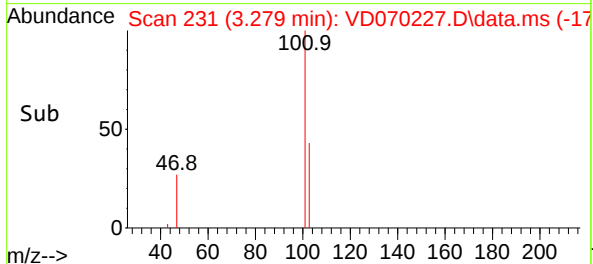
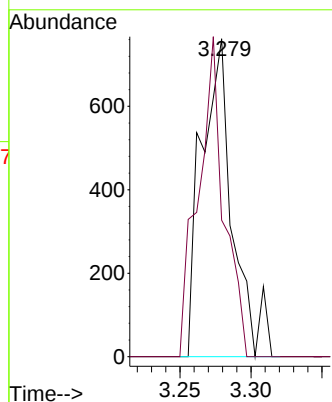


#7
Trichlorofluoromethane
Concen: 1.233 ug/l
RT: 3.279 min Scan# 231
Delta R.T. 0.012 min
Lab File: VD070227.D
Acq: 23 Aug 2021 18:16

Instrument :
MSVOA_D
ClientSampled :

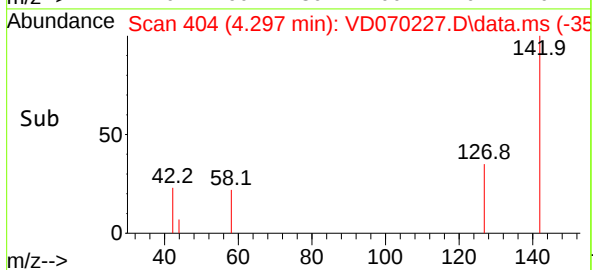
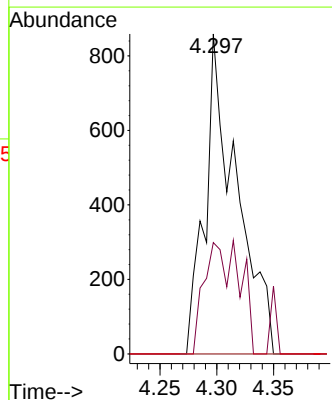
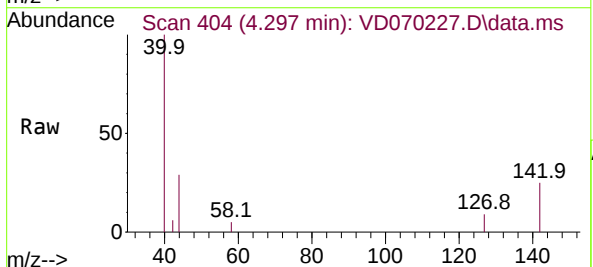


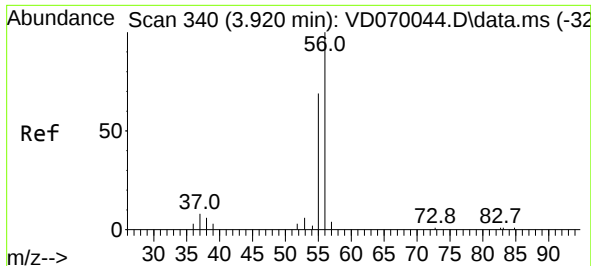
Tgt Ion:101 Resp: 1164
Ion Ratio Lower Upper
101 100
103 42.9 53.9 80.9#



#10
Methyl Iodide
Concen: 3.000 ug/l
RT: 4.297 min Scan# 404
Delta R.T. 0.000 min
Lab File: VD070227.D
Acq: 23 Aug 2021 18:16

Tgt Ion:142 Resp: 1647
Ion Ratio Lower Upper
142 100
127 24.4 35.4 53.0#
141 0.0 12.1 18.1#

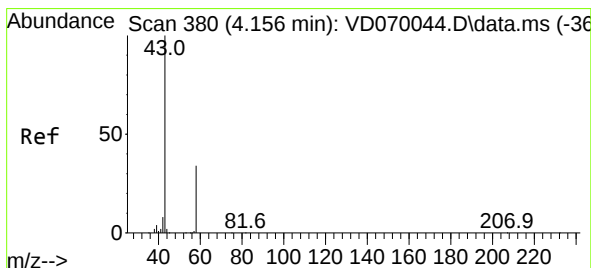
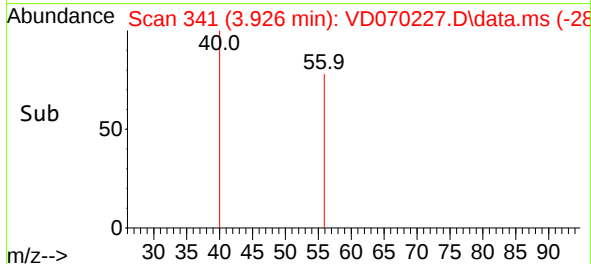
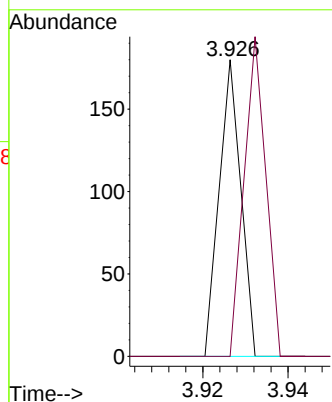
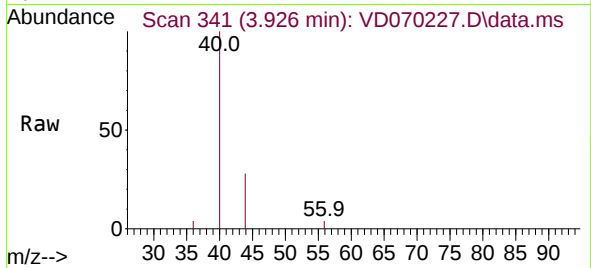




#13
Acrolein
Concen: 1.841 ug/l
RT: 3.926 min Scan# 341
Delta R.T. 0.006 min
Lab File: VD070227.D
Acq: 23 Aug 2021 18:16

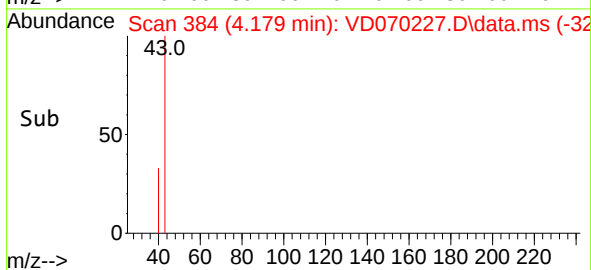
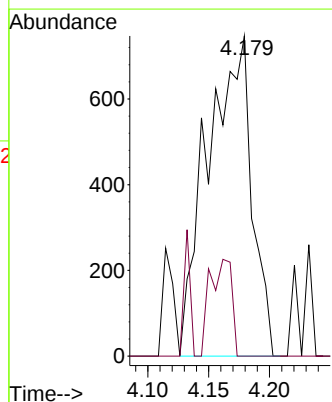
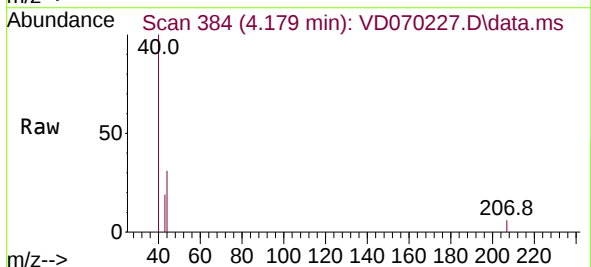
Instrument :
MSVOA_D
ClientSampled :

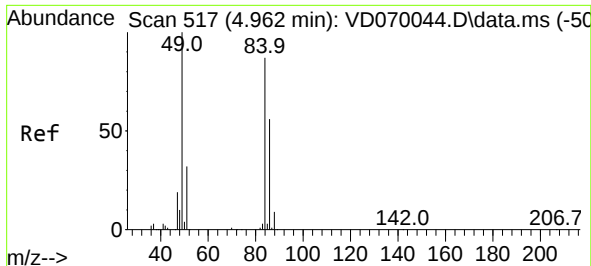
Tgt Ion: 56 Resp: 64
Ion Ratio Lower Upper
56 100
55 106.3 57.4 86.0#



#16
Acetone
Concen: 18.706 ug/l
RT: 4.179 min Scan# 384
Delta R.T. 0.024 min
Lab File: VD070227.D
Acq: 23 Aug 2021 18:16

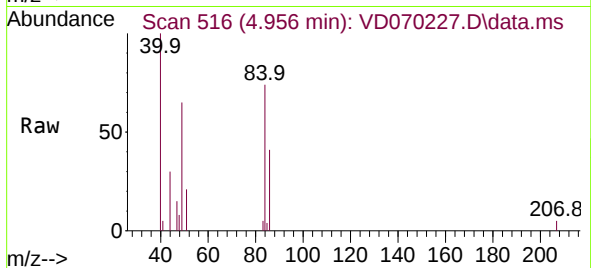
Tgt Ion: 43 Resp: 1882
Ion Ratio Lower Upper
43 100
58 0.0 26.8 40.2#



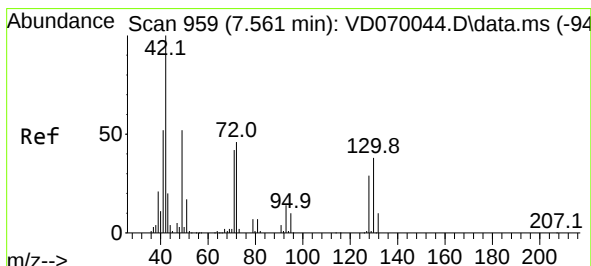
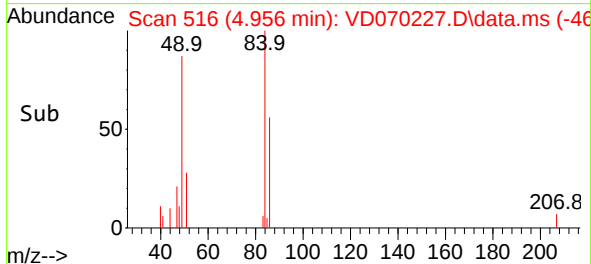
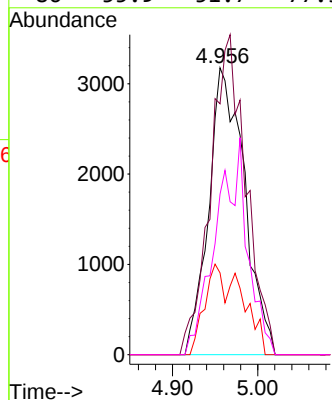


#20
Methylene Chloride
Concen: 6.385 ug/l
RT: 4.956 min Scan# 516
Delta R.T. -0.006 min
Lab File: VD070227.D
Acq: 23 Aug 2021 18:16

Instrument :
MSVOA_D
ClientSampleId :

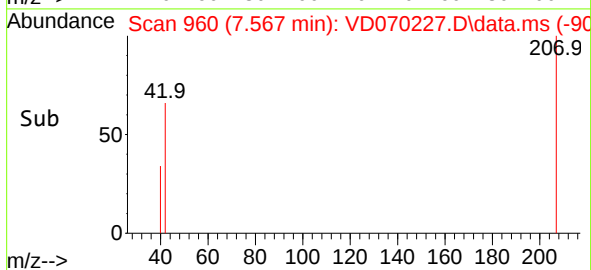
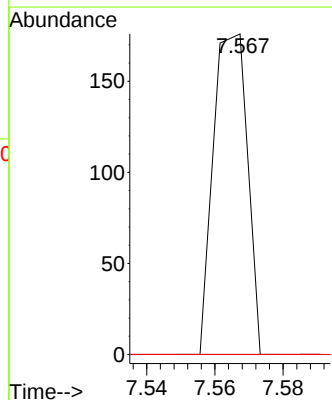
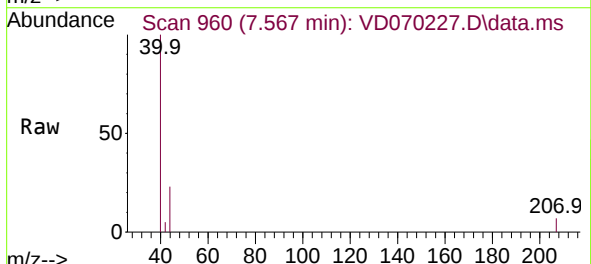


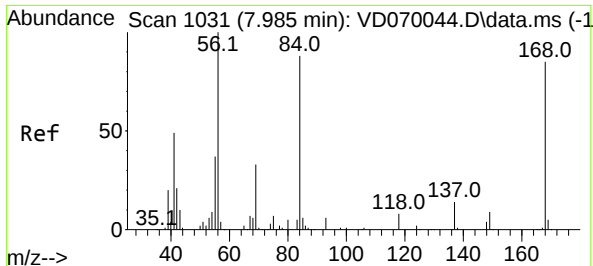
Tgt Ion:	84	Resp:	9254
Ion	Ratio	Lower	Upper
84	100		
49	87.5	92.5	138.7#
51	28.5	29.7	44.5#
86	55.9	51.7	77.5



#29
Tetrahydrofuran
Concen: 1.355 ug/l
RT: 7.567 min Scan# 960
Delta R.T. 0.006 min
Lab File: VD070227.D
Acq: 23 Aug 2021 18:16

Tgt Ion:	42	Resp:	122
Ion	Ratio	Lower	Upper
42	100		
72	0.0	37.5	56.3#
71	0.0	33.6	50.4#

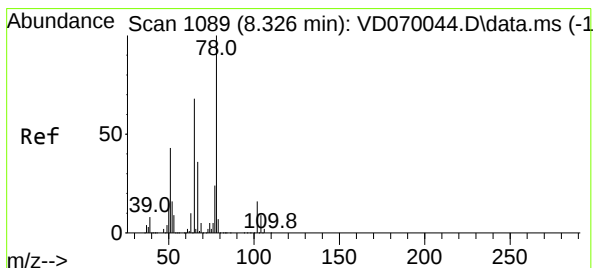
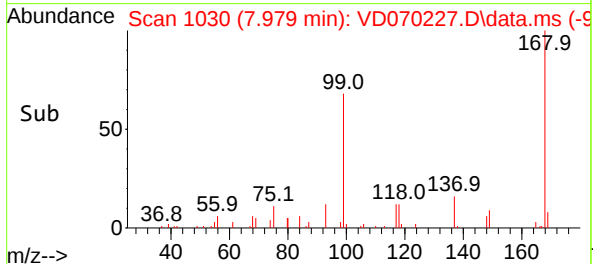
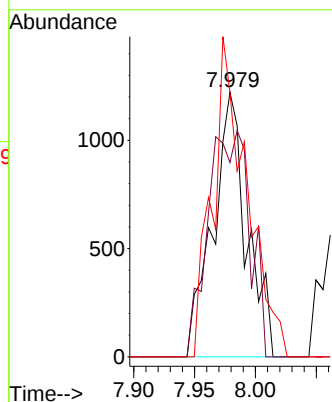
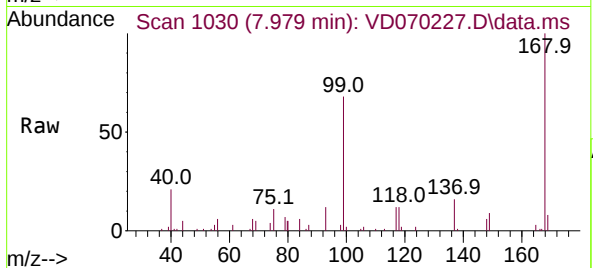




#31
Cyclohexane
Concen: 2.181 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VD070227.D
Acq: 23 Aug 2021 18:16

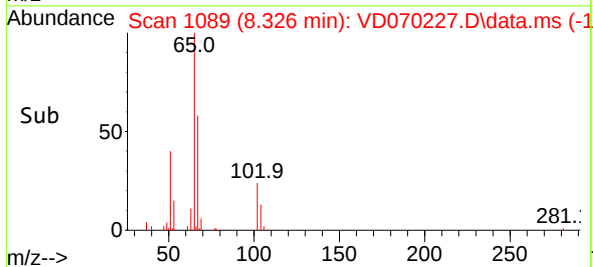
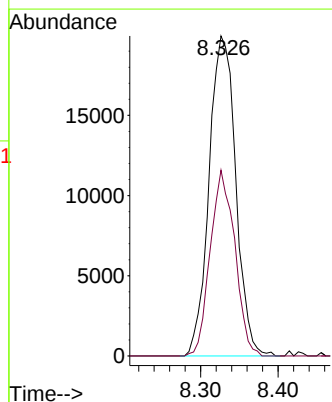
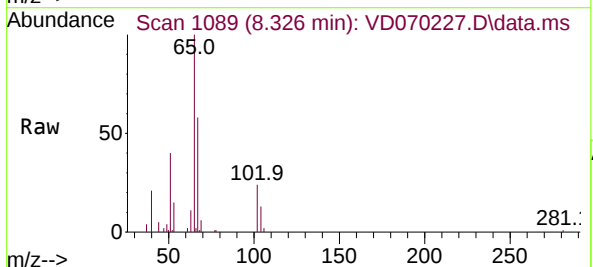
Instrument :
MSVOA_D
ClientSampled :

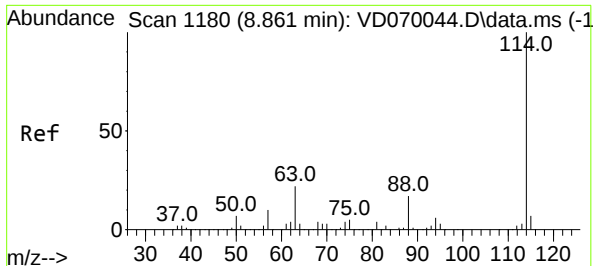
Tgt Ion: 56 Resp: 2358
Ion Ratio Lower Upper
56 100
69 73.5 26.7 40.1#
84 99.8 70.4 105.6



#33
1,2-Dichloroethane-d4
Concen: 87.461 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VD070227.D
Acq: 23 Aug 2021 18:16

Tgt Ion: 65 Resp: 47768
Ion Ratio Lower Upper
65 100
67 53.4 0.0 107.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

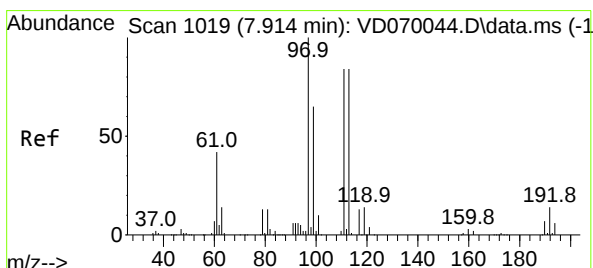
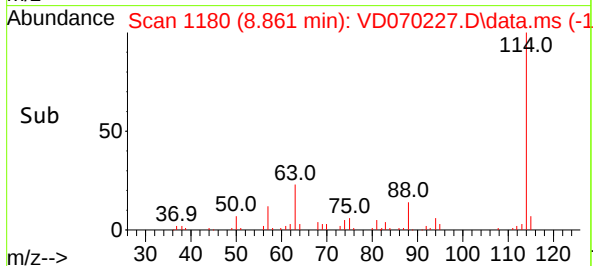
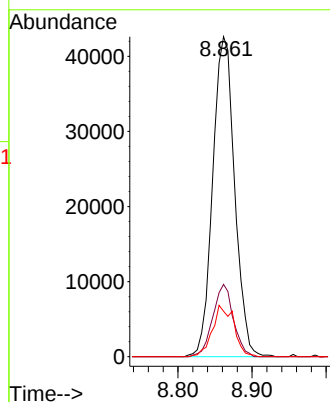
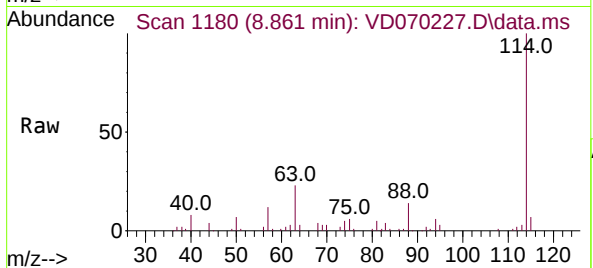
Delta R.T. 0.000 min

Lab File: VD070227.D

Acq: 23 Aug 2021 18:16

Tgt Ion:	114	Resp:	87535
Ion Ratio	Lower	Upper	
114	100		
63	22.6	0.0	43.6
88	14.2	0.0	33.4

Instrument :
MSVOA_D
ClientSampleId :



#35

Dibromofluoromethane

Concen: 56.159 ug/l

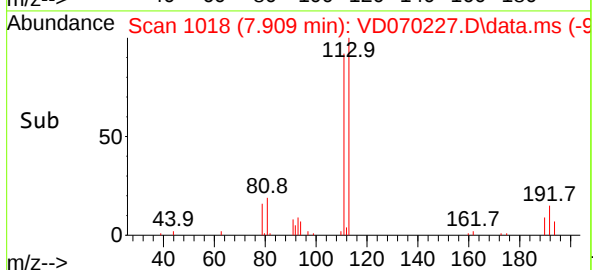
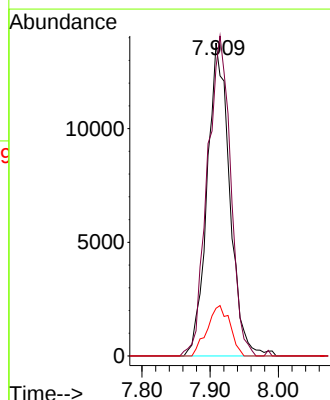
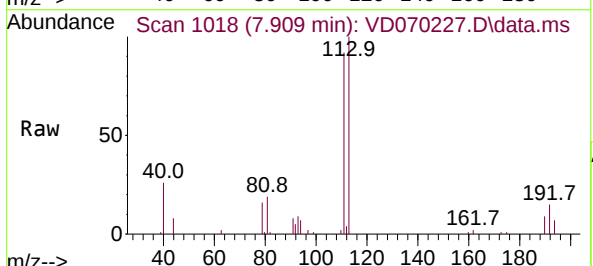
RT: 7.909 min Scan# 1018

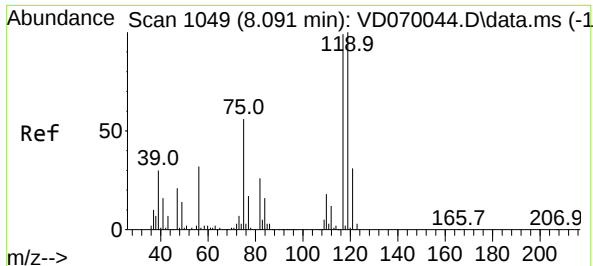
Delta R.T. -0.006 min

Lab File: VD070227.D

Acq: 23 Aug 2021 18:16

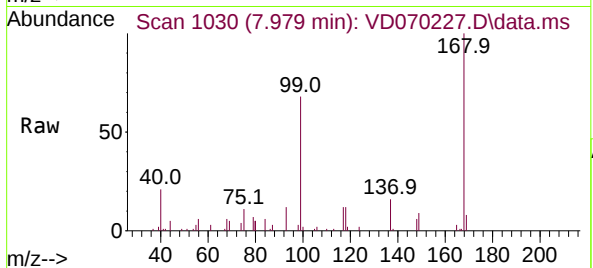
Tgt Ion:	113	Resp:	31760
Ion Ratio	Lower	Upper	
113	100		
111	105.1	81.8	122.6
192	16.2	13.2	19.8



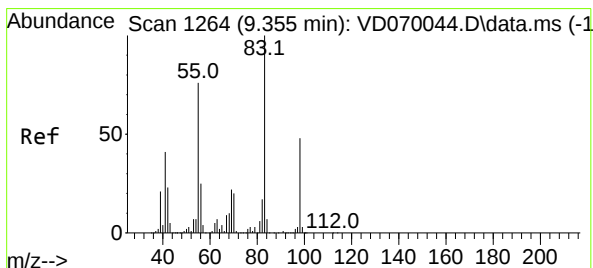
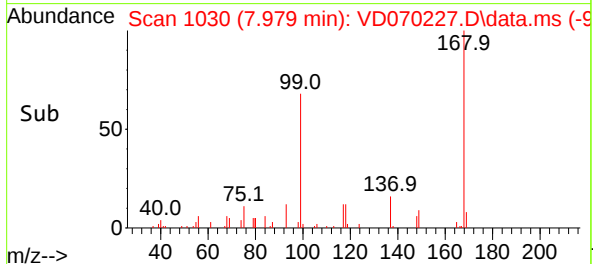
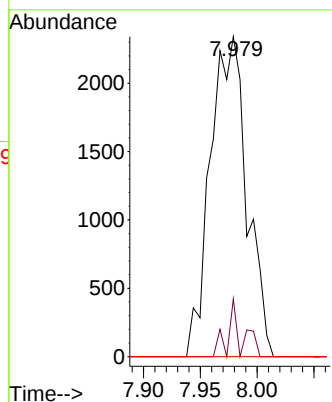


#38
Carbon Tetrachloride
Concen: 6.133 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.112 min
Lab File: VD070227.D
Acq: 23 Aug 2021 18:16

Instrument :
MSVOA_D
ClientSampled :

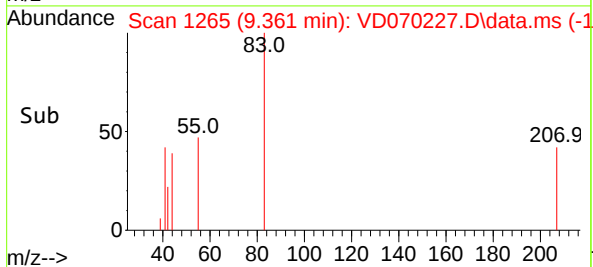
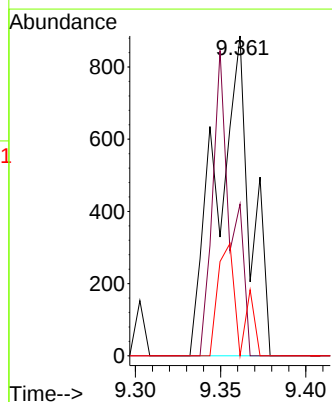
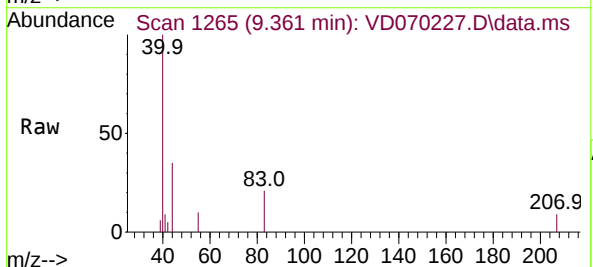


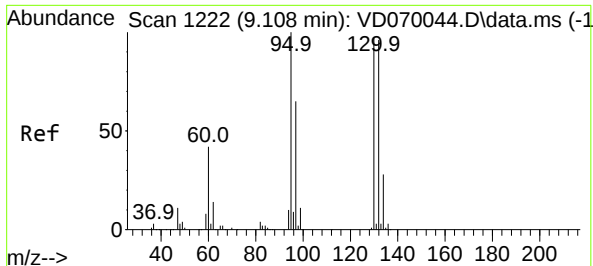
Tgt Ion:117 Resp: 5243
Ion Ratio Lower Upper
117 100
119 18.1 81.0 121.6#
121 0.0 25.0 37.6#



#39
Methylcyclohexane
Concen: 1.111 ug/l
RT: 9.361 min Scan# 1265
Delta R.T. 0.006 min
Lab File: VD070227.D
Acq: 23 Aug 2021 18:16

Tgt Ion: 83 Resp: 1218
Ion Ratio Lower Upper
83 100
55 47.4 60.7 91.1#
98 0.0 38.6 58.0#

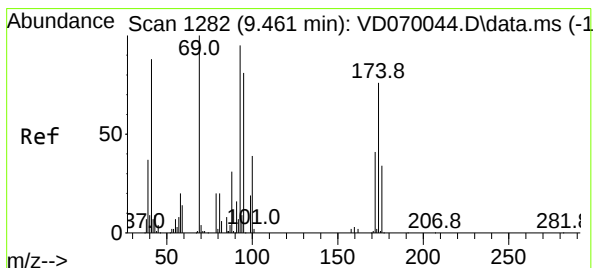
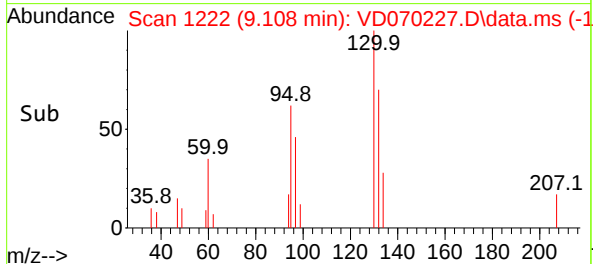
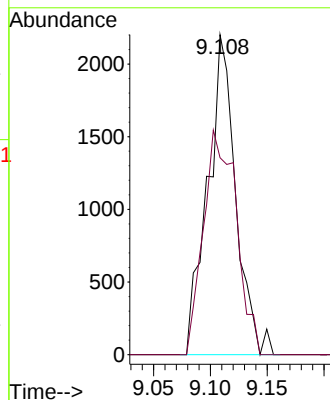
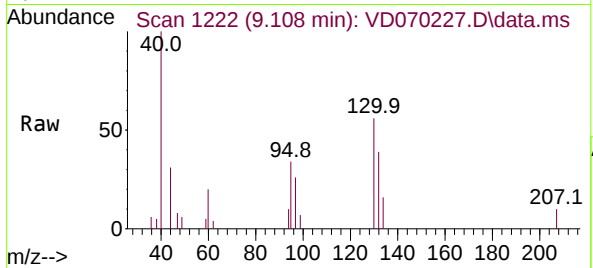




#44
Trichloroethene
Concen: 5.730 ug/l
RT: 9.108 min Scan# 1222
Delta R.T. 0.000 min
Lab File: VD070227.D
Acq: 23 Aug 2021 18:16

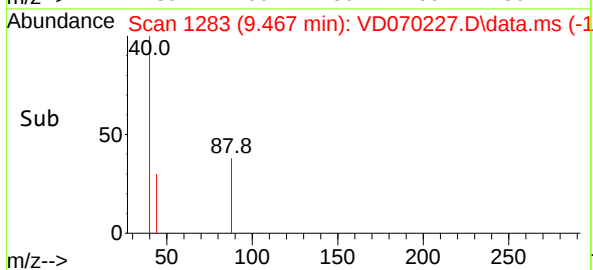
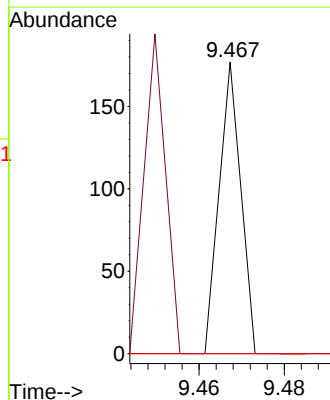
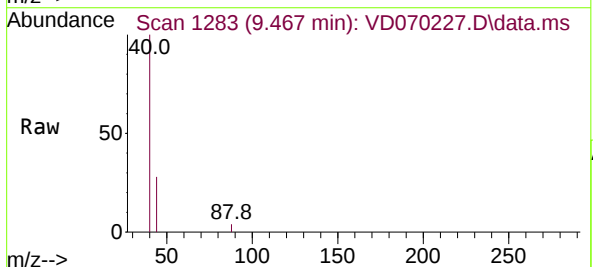
Instrument :
MSVOA_D
ClientSampled :

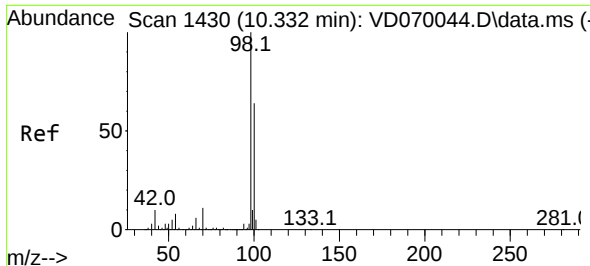
Tgt Ion:130 Resp: 3781
Ion Ratio Lower Upper
130 100
95 61.5 0.0 206.4



#49
1,4-Dioxane
Concen: 16.533 ug/l
RT: 9.467 min Scan# 1283
Delta R.T. 0.006 min
Lab File: VD070227.D
Acq: 23 Aug 2021 18:16

Tgt Ion: 88 Resp: 62
Ion Ratio Lower Upper
88 100
43 109.7 25.8 38.6#
58 0.0 57.4 86.2#

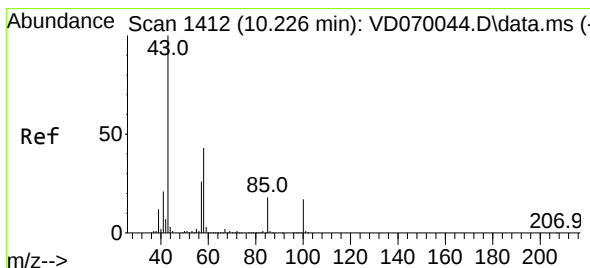
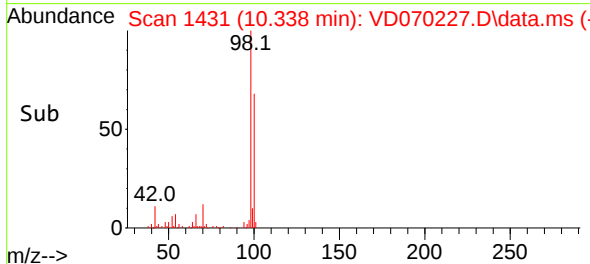
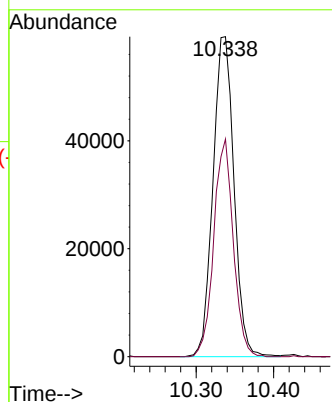
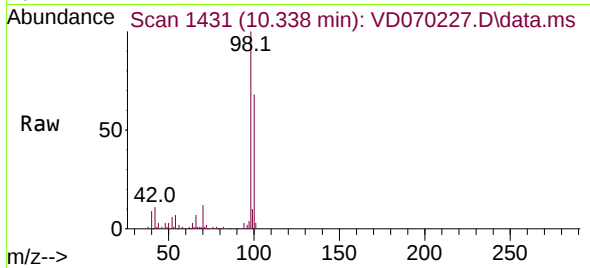




#50
Toluene-d8
Concen: 50.750 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. 0.006 min
Lab File: VD070227.D
Acq: 23 Aug 2021 18:16

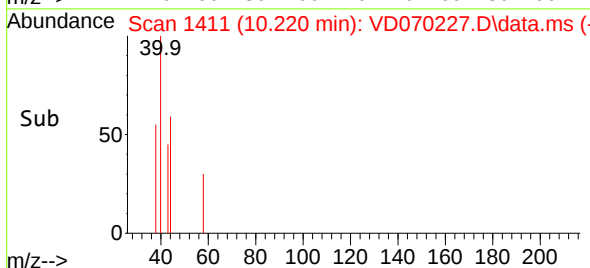
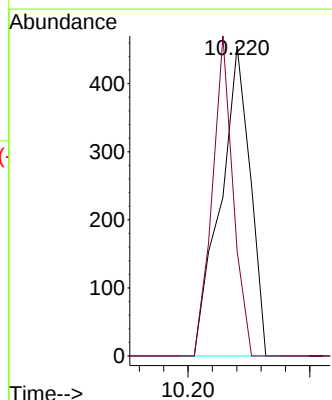
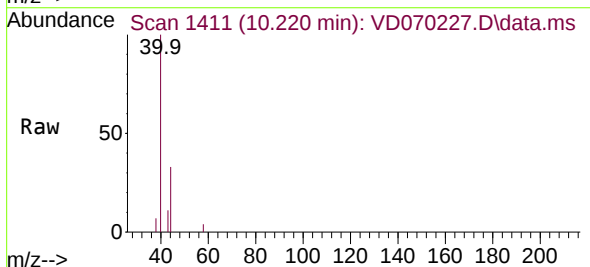
Instrument :
MSVOA_D
ClientSampleId :

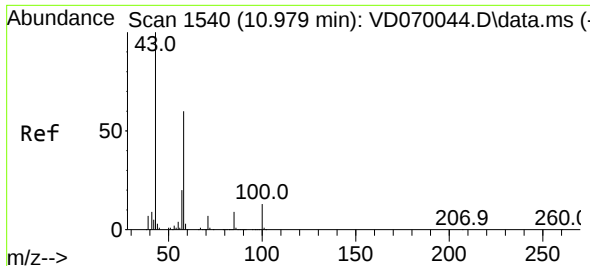
Tgt Ion: 98 Resp: 111630
Ion Ratio Lower Upper
98 100
100 63.1 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 1.160 ug/l
RT: 10.220 min Scan# 1411
Delta R.T. -0.006 min
Lab File: VD070227.D
Acq: 23 Aug 2021 18:16

Tgt Ion: 43 Resp: 385
Ion Ratio Lower Upper
43 100
58 72.5 33.9 50.9#

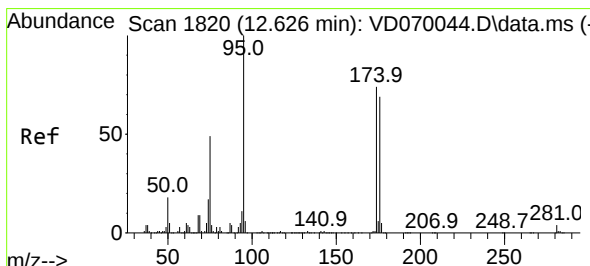
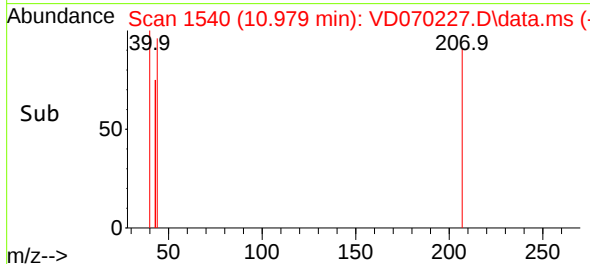
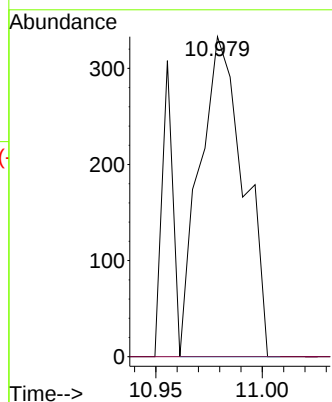
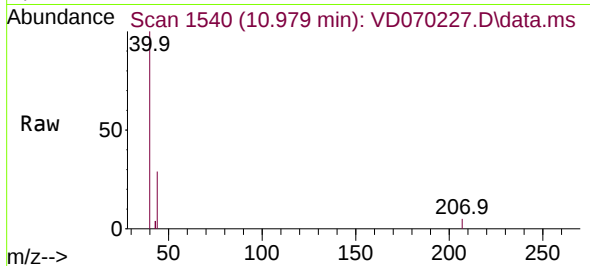




#59
2-Hexanone
Concen: 2.159 ug/l
RT: 10.979 min Scan# 1540
Delta R.T. 0.000 min
Lab File: VD070227.D
Acq: 23 Aug 2021 18:16

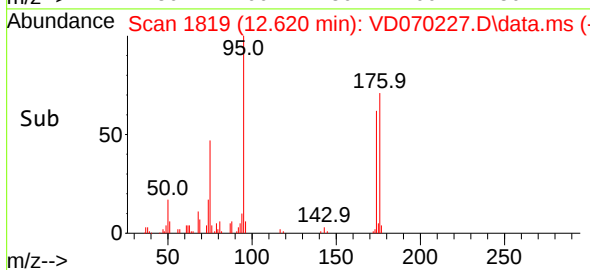
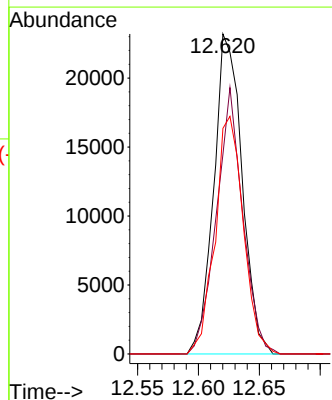
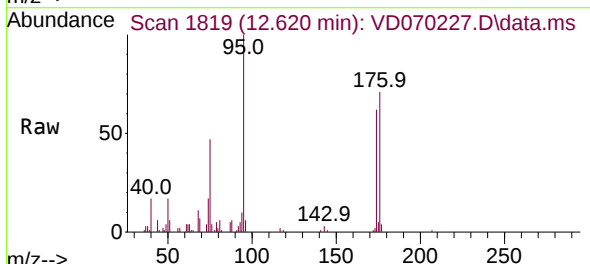
Instrument :
MSVOA_D
ClientSampleId :

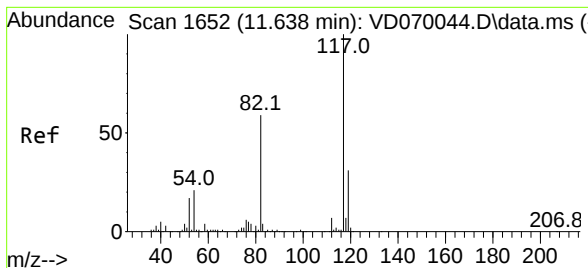
Tgt Ion: 43 Resp: 480
Ion Ratio Lower Upper
43 100
58 0.0 29.5 88.5#



#62
4-Bromofluorobenzene
Concen: 51.687 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD070227.D
Acq: 23 Aug 2021 18:16

Tgt Ion: 95 Resp: 37447
Ion Ratio Lower Upper
95 100
174 77.6 0.0 141.6
176 74.2 0.0 138.2

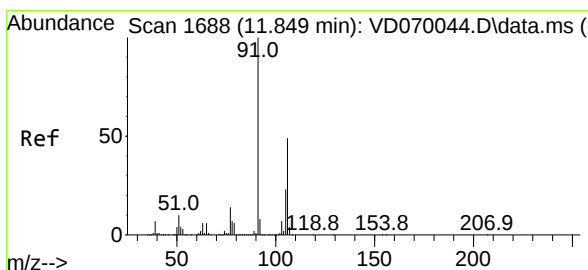
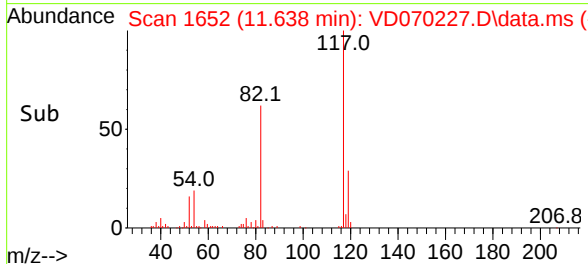
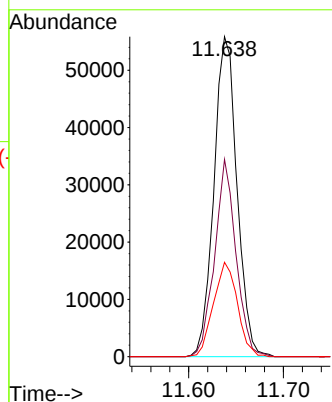
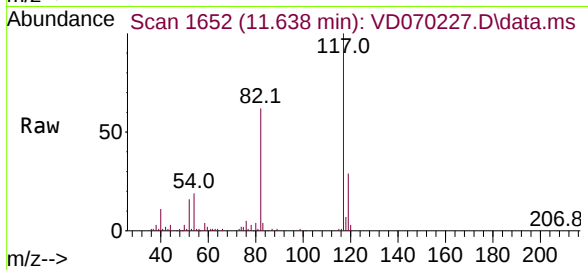




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. 0.000 min
Lab File: VD070227.D
Acq: 23 Aug 2021 18:16

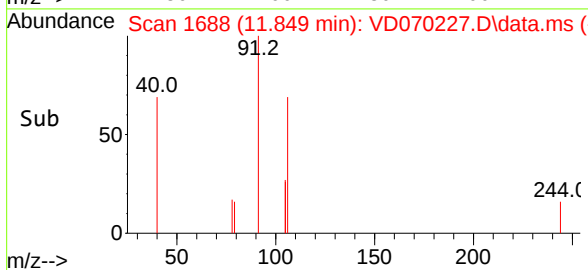
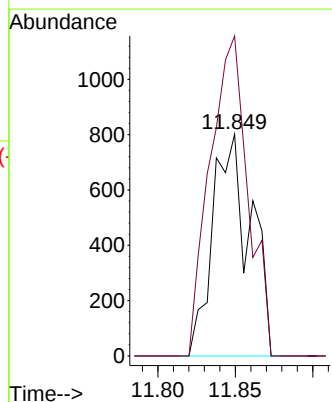
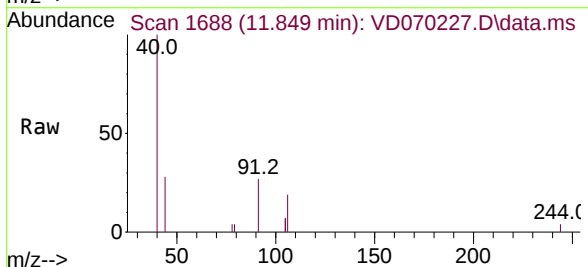
Instrument :
MSVOA_D
ClientSampleId :

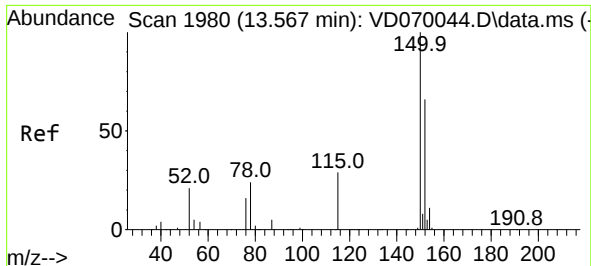
Tgt Ion:117 Resp: 94655
Ion Ratio Lower Upper
117 100
82 61.7 47.5 71.3
119 29.5 25.1 37.7



#68
m/p-Xylenes
Concen: 1.003 ug/l
RT: 11.849 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VD070227.D
Acq: 23 Aug 2021 18:16

Tgt Ion:106 Resp: 1359
Ion Ratio Lower Upper
106 100
91 145.5 164.6 246.8#

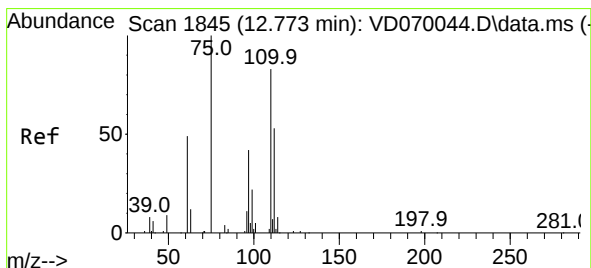
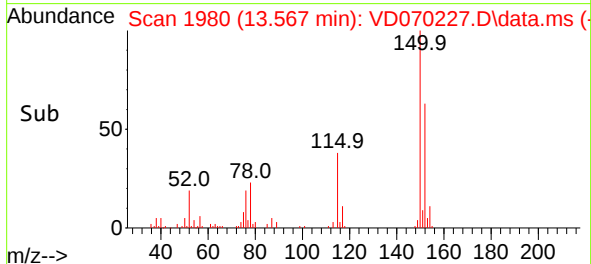
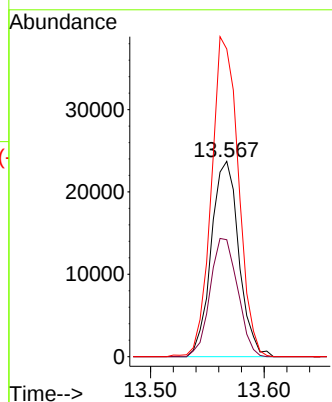
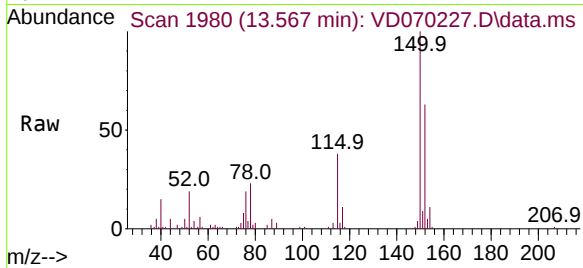




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. 0.000 min
Lab File: VD070227.D
Acq: 23 Aug 2021 18:16

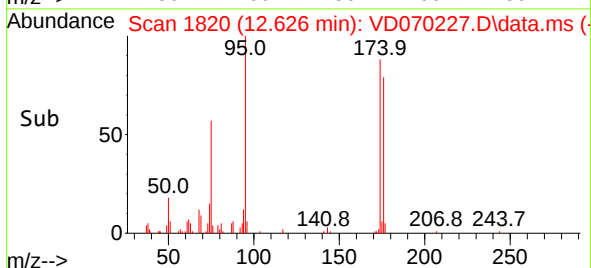
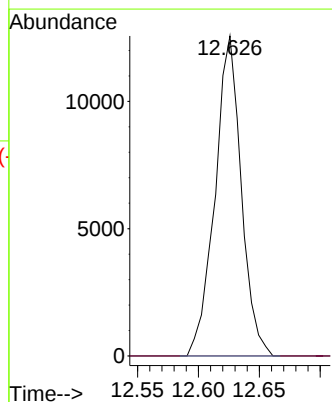
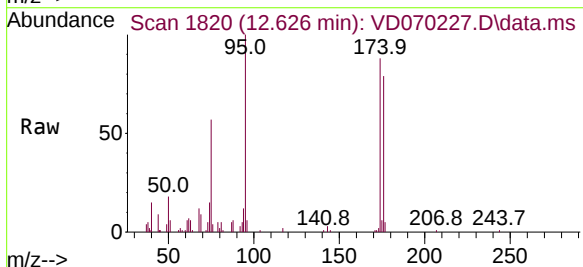
Instrument :
MSVOA_D
ClientSampleId :

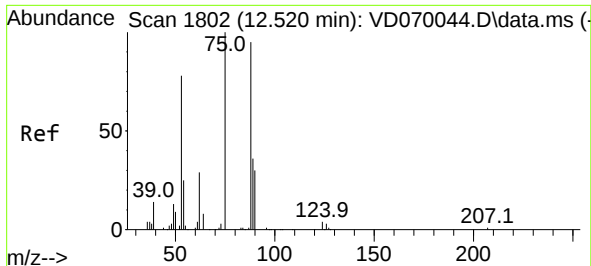
Tgt Ion:152 Resp: 40058
Ion Ratio Lower Upper
152 100
115 60.4 31.2 93.6
150 159.7 0.0 352.0



#76
1,2,3-Trichloropropane
Concen: 46.529 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD070227.D
Acq: 23 Aug 2021 18:16

Tgt Ion: 75 Resp: 18902
Ion Ratio Lower Upper
75 100
77 0.0 182.4 547.2#

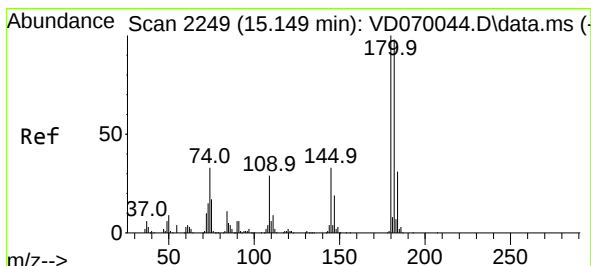
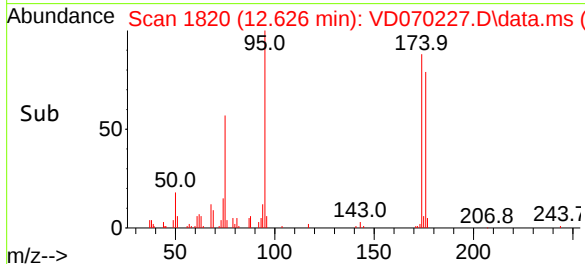
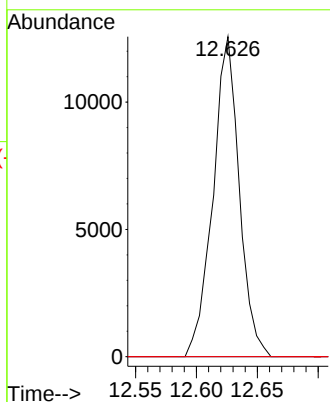
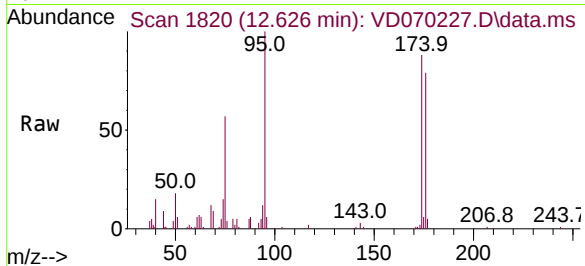




#81
trans-1,4-Dichloro-2-butene
Concen: 120.772 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.106 min
Lab File: VD070227.D
Acq: 23 Aug 2021 18:16

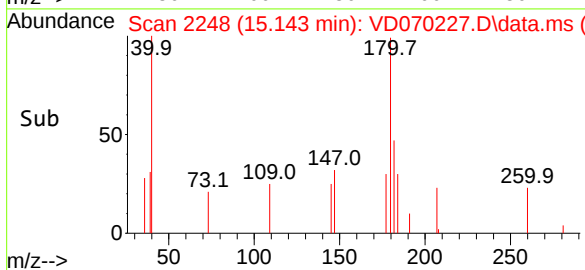
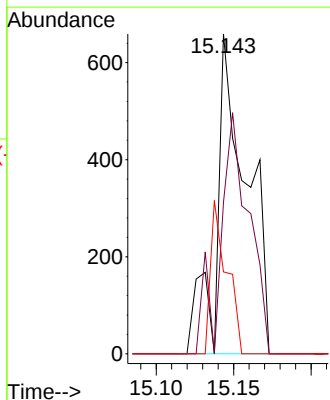
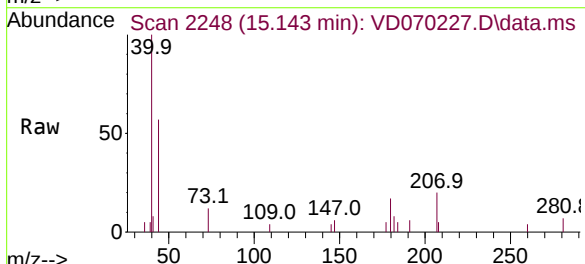
Instrument :
MSVOA_D
ClientSampleId :

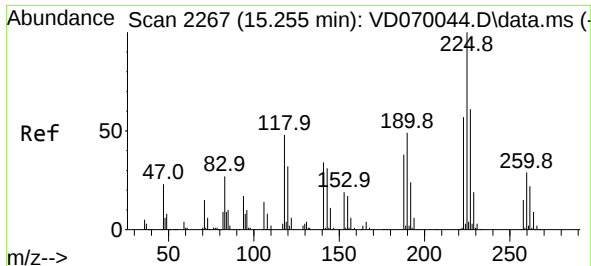
Tgt Ion: 75 Resp: 18902
Ion Ratio Lower Upper
75 100
53 0.0 64.5 96.7#
89 0.0 33.7 50.5#



#93
1,2,4-Trichlorobenzene
Concen: 1.357 ug/l
RT: 15.143 min Scan# 2248
Delta R.T. -0.006 min
Lab File: VD070227.D
Acq: 23 Aug 2021 18:16

Tgt Ion:180 Resp: 891
Ion Ratio Lower Upper
180 100
182 71.2 47.9 143.6
145 25.7 16.3 48.9

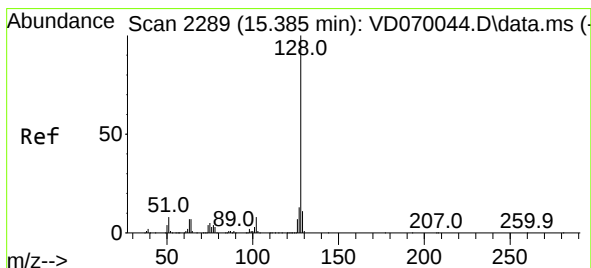
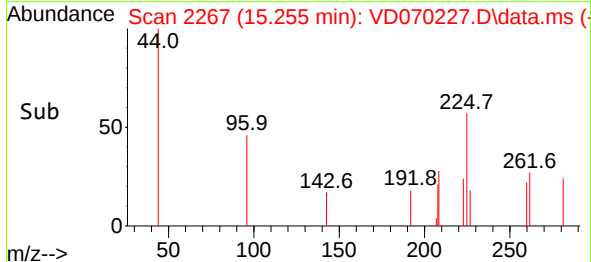
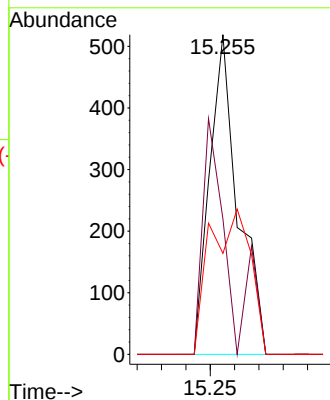
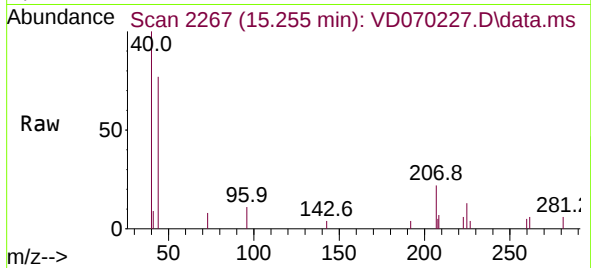




#94
Hexachlorobutadiene
Concen: 1.088 ug/l
RT: 15.255 min Scan# 2267
Delta R.T. 0.000 min
Lab File: VD070227.D
Acq: 23 Aug 2021 18:16

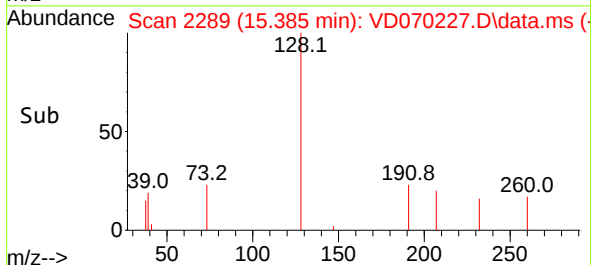
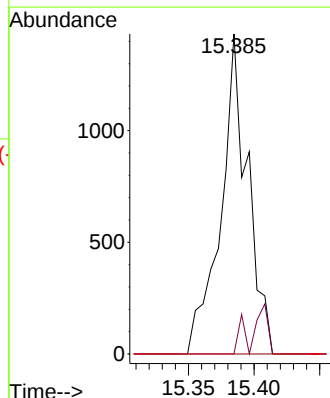
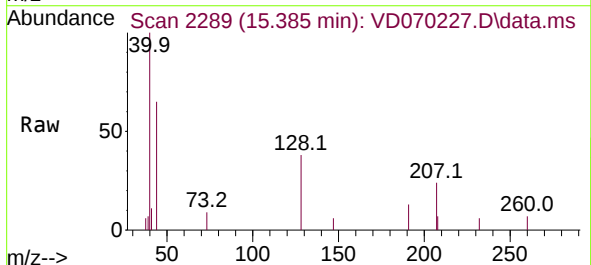
Instrument :
MSVOA_D
ClientSampled :

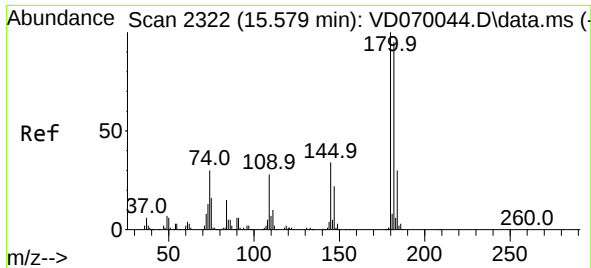
Tgt Ion:	225	Resp:	422
Ion	Ratio	Lower	Upper
225	100		
223	65.2	30.5	91.5
227	64.7	31.4	94.2



#95
Naphthalene
Concen: 1.706 ug/l
RT: 15.385 min Scan# 2289
Delta R.T. 0.000 min
Lab File: VD070227.D
Acq: 23 Aug 2021 18:16

Tgt Ion:	128	Resp:	2038
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	0.0	8.3	12.5#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.543 ug/l
 RT: 15.573 min Scan# 2321
 Delta R.T. -0.006 min
 Lab File: VD070227.D
 Acq: 23 Aug 2021 18:16

Instrument :
 MSVOA_D
 ClientSampleId :

Tgt Ion:180 Resp: 884
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.9 143.6#
 145 0.0 16.8 50.3#

