

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121421\
 Data File : VD071330.D
 Acq On : 14 Dec 2021 19:41
 Operator : VA/SY
 Sample : M5065-01RE
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 15 08:33:46 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D112921S.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 29 17:54:09 2021
 Response via : Initial Calibration

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

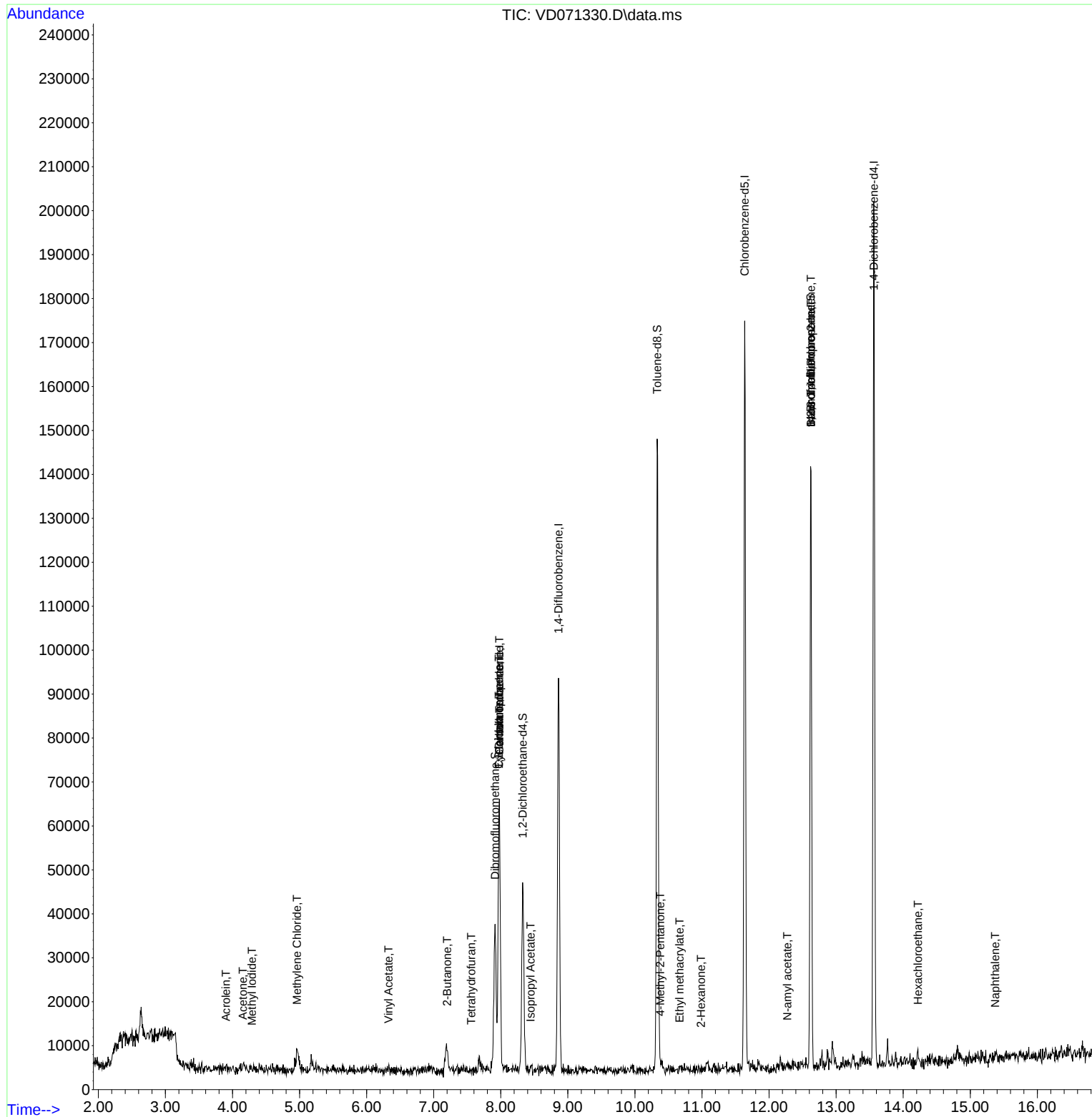
Internal Standards						
1) Pentafluorobenzene	7.979	168	41786	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	71029	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.637	117	90017	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	46469	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	32913	67.127	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 134.260%			
35) Dibromofluoromethane	7.914	113	23360	51.647	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.300%			
50) Toluene-d8	10.332	98	91702	53.276	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 106.560%			
62) 4-Bromofluorobenzene	12.620	95	44092	73.899	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 147.800%#			
Target Compounds						Qvalue
10) Methyl Iodide	4.291	142	59	4.670	ug/l #	40
11) Tert butyl alcohol	5.226	59	155	Below Cal	#	71
13) Acrolein	3.902	56	58	1.731	ug/l #	13
16) Acetone	4.155	43	3072	51.485	ug/l #	40
20) Methylene Chloride	4.961	84	3158	2.407	ug/l #	80
23) Vinyl Acetate	6.326	43	64	27.290	ug/l #	72
25) 2-Butanone	7.202	43	317	30.228	ug/l #	45
29) Tetrahydrofuran	7.561	42	83	1.066	ug/l #	34
31) Cyclohexane	7.973	56	966	1.158	ug/l #	53
36) 1,1-Dichloropropene	7.973	75	4455	6.711	ug/l #	47
38) Carbon Tetrachloride	7.979	117	4786	7.314	ug/l #	12
41) Methacrylonitrile	7.508	41	60	Below Cal	#	53
43) Isopropyl Acetate	8.443	43	156	5.444	ug/l #	47
51) 4-Methyl-2-Pentanone	10.379	43	144	31.042	ug/l	97
56) Ethyl methacrylate	10.667	69	137	6.230	ug/l #	1
59) 2-Hexanone	10.984	43	135	35.051	ug/l #	22
71) Bromoform	12.626	173	354	1.121	ug/l #	1
74) N-amyl acetate	12.273	43	217	5.910	ug/l #	44
76) 1,2,3-Trichloropropane	12.626	75	24996	56.458	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.626	75	24996	122.577	ug/l #	18
90) Hexachloroethane	14.220	117	1130	2.003	ug/l #	14
95) Naphthalene	15.372	128	1697	1.251	ug/l #	82

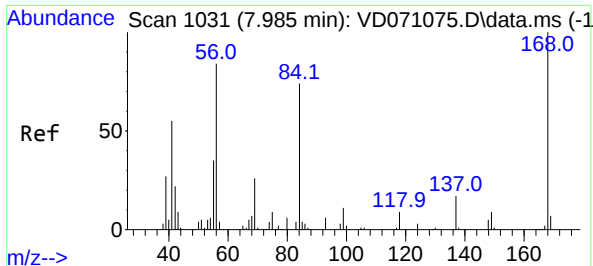
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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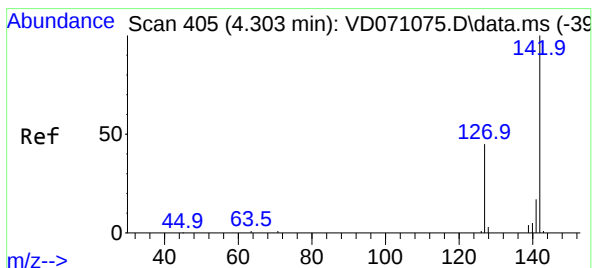
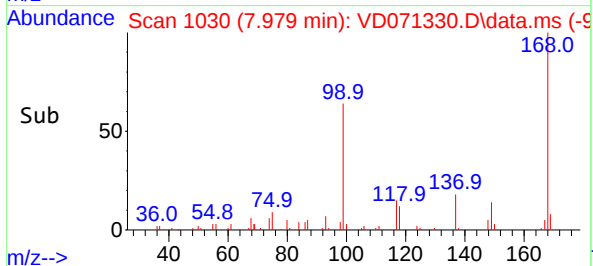
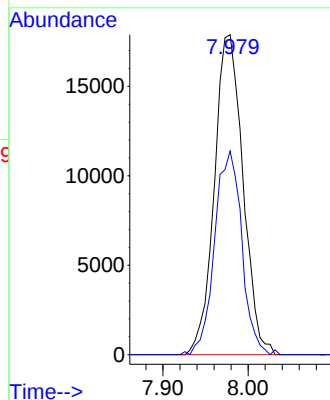
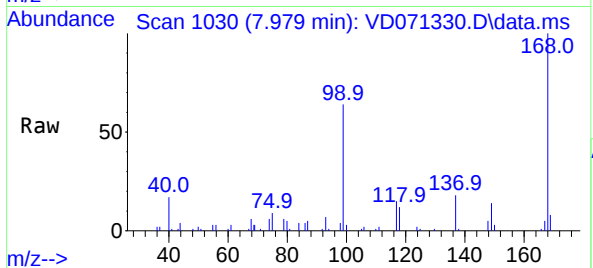




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1031
Delta R.T. -0.006 min
Lab File: VD071330.D
Acq: 14 Dec 2021 19:41

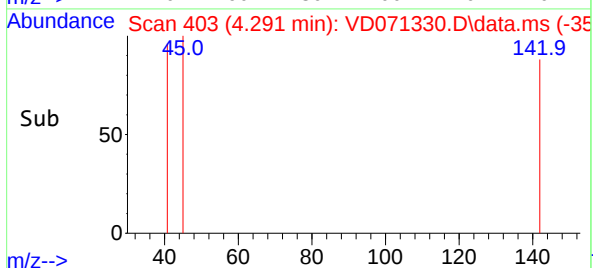
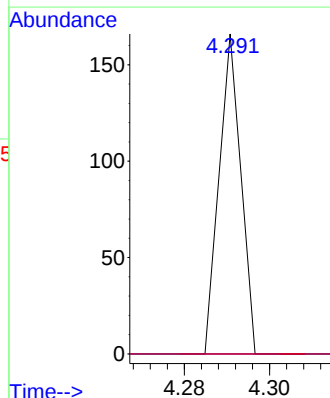
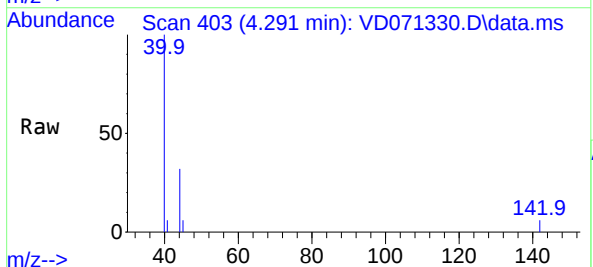
Instrument :
MSVOA_D
ClientSampleId :

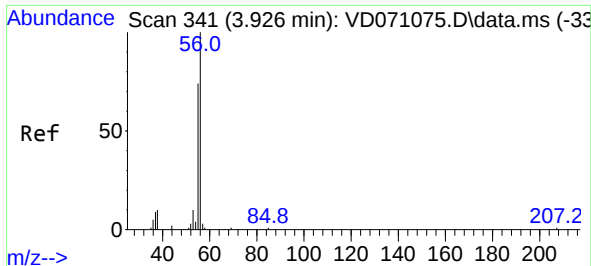
Tgt Ion:168 Resp: 41786
Ion Ratio Lower Upper
168 100
99 63.7 46.6 69.8



#10
Methyl Iodide
Concen: 4.670 ug/l
RT: 4.291 min Scan# 403
Delta R.T. -0.012 min
Lab File: VD071330.D
Acq: 14 Dec 2021 19:41

Tgt Ion:142 Resp: 59
Ion Ratio Lower Upper
142 100
127 0.0 35.0 52.4#
141 0.0 12.0 18.0#

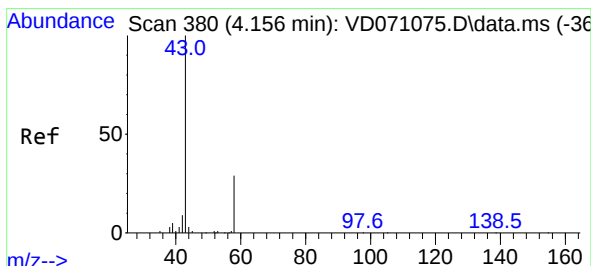
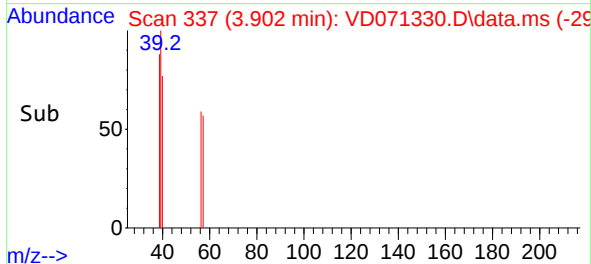
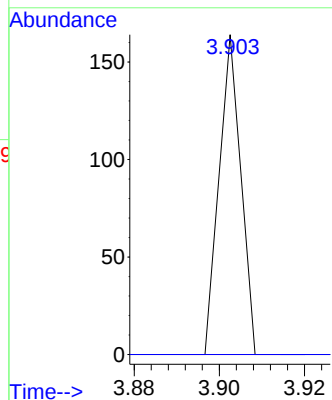
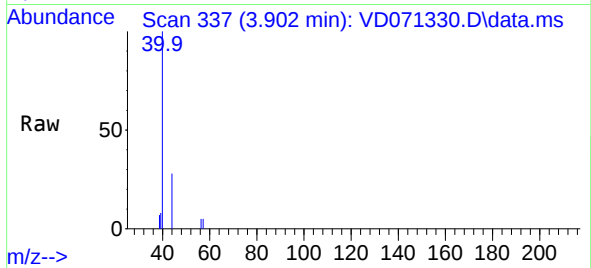




#13
Acrolein
Concen: 1.731 ug/l
RT: 3.902 min Scan# 31
Delta R.T. -0.024 min
Lab File: VD071330.D
Acq: 14 Dec 2021 19:41

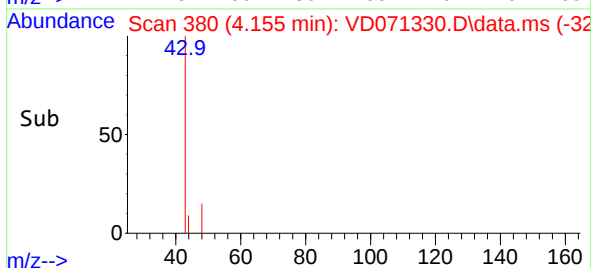
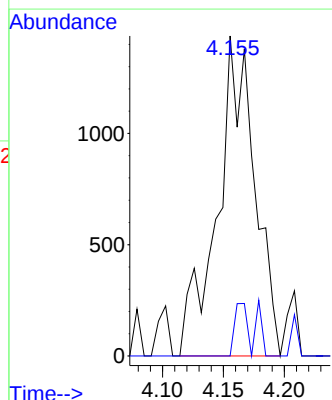
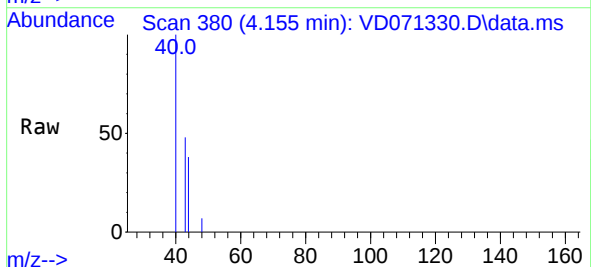
Instrument :
MSVOA_D
ClientSampleId :

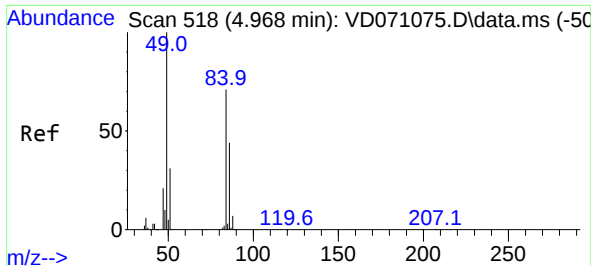
Tgt Ion: 56 Resp: 58
Ion Ratio Lower Upper
56 100
55 0.0 58.6 87.8#



#16
Acetone
Concen: 51.485 ug/l
RT: 4.155 min Scan# 380
Delta R.T. -0.001 min
Lab File: VD071330.D
Acq: 14 Dec 2021 19:41

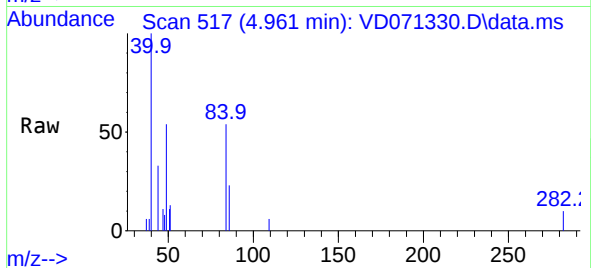
Tgt Ion: 43 Resp: 3072
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#



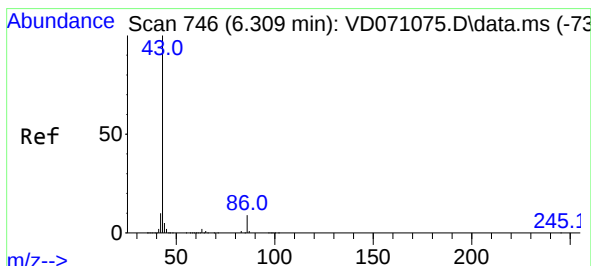
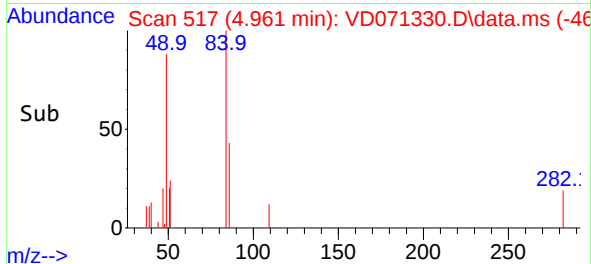
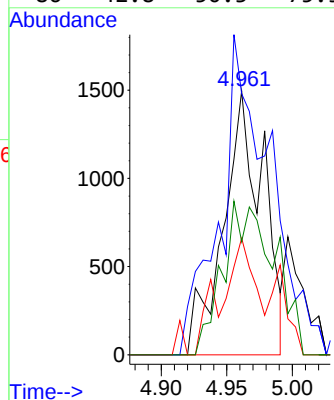


#20
Methylene Chloride
Concen: 2.407 ug/l
RT: 4.961 min Scan# 518
Delta R.T. -0.007 min
Lab File: VD071330.D
Acq: 14 Dec 2021 19:41

Instrument :
MSVOA_D
ClientSampleId :

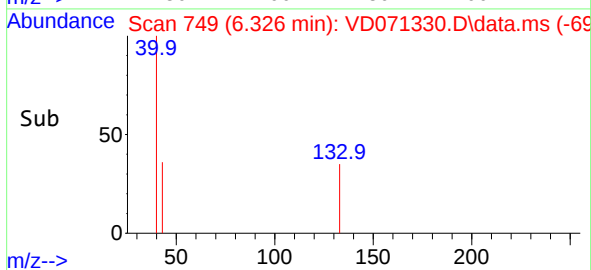
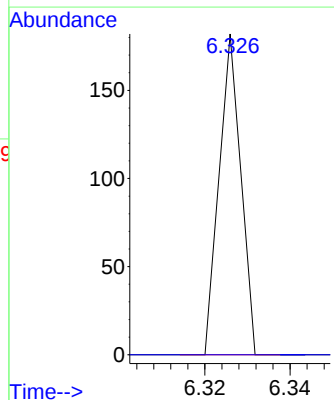
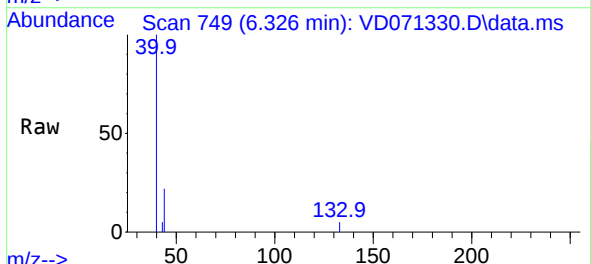


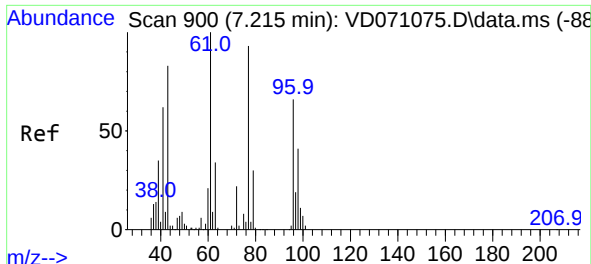
Tgt Ion:	84	Resp:	3158
Ion	Ratio	Lower	Upper
84	100		
49	98.9	95.8	143.6
51	31.1	30.9	46.3
86	42.8	50.3	75.5#



#23
Vinyl Acetate
Concen: 27.290 ug/l
RT: 6.326 min Scan# 749
Delta R.T. 0.017 min
Lab File: VD071330.D
Acq: 14 Dec 2021 19:41

Tgt Ion:	43	Resp:	64
Ion	Ratio	Lower	Upper
43	100		
86	0.0	8.2	12.4#





#25

2-Butanone

Concen: 30.228 ug/l

RT: 7.202 min Scan# 898

Delta R.T. -0.013 min

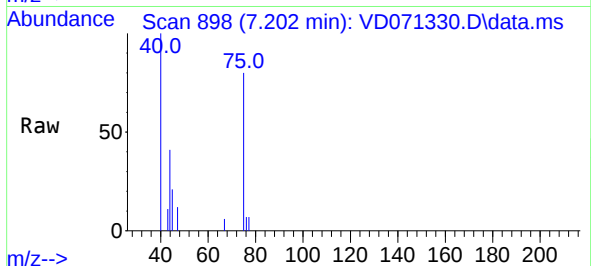
Lab File: VD071330.D

Acq: 14 Dec 2021 19:41

Instrument :

MSVOA_D

ClientSampleId :

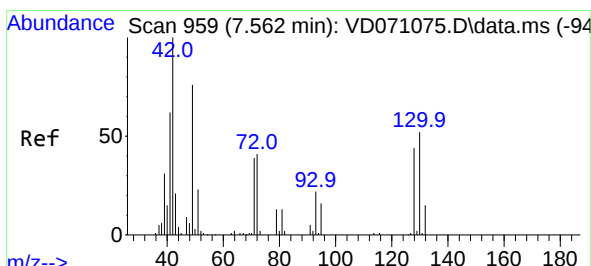
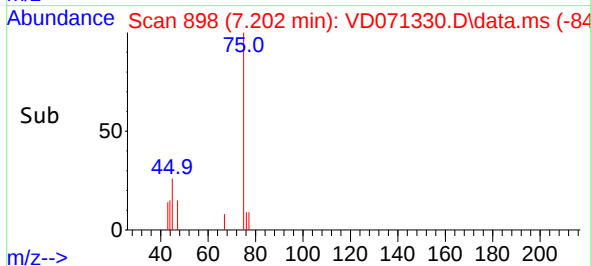
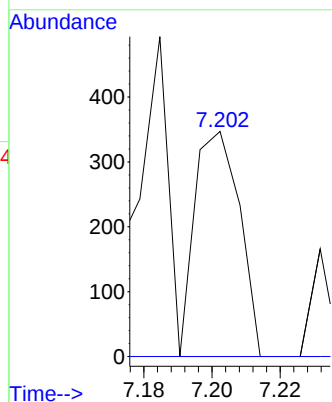


Tgt Ion: 43 Resp: 317

Ion Ratio Lower Upper

43 100

72 0.0 23.8 35.6#



#29

Tetrahydrofuran

Concen: 1.066 ug/l

RT: 7.561 min Scan# 959

Delta R.T. -0.001 min

Lab File: VD071330.D

Acq: 14 Dec 2021 19:41

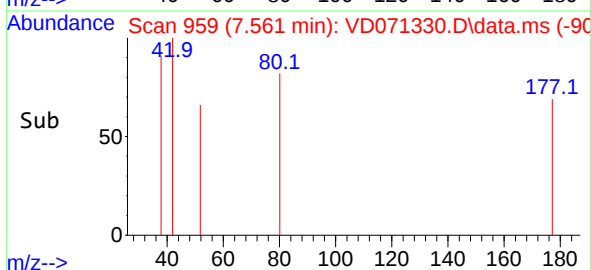
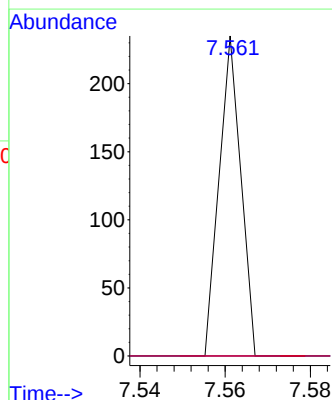
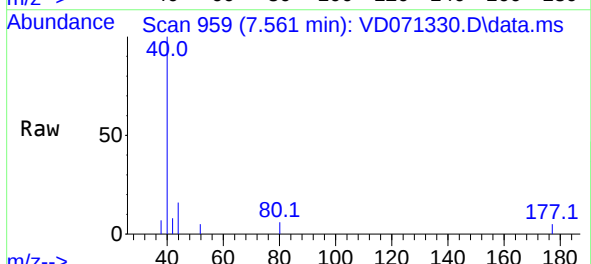
Tgt Ion: 42 Resp: 83

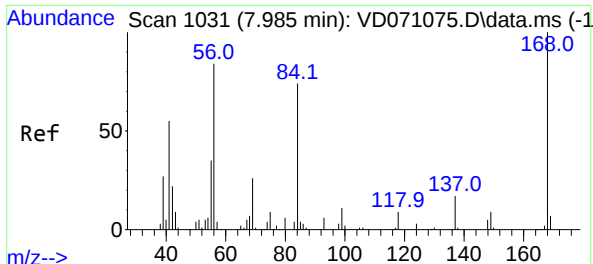
Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

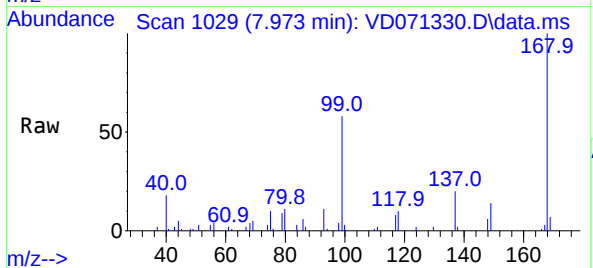
71 0.0 32.7 49.1#



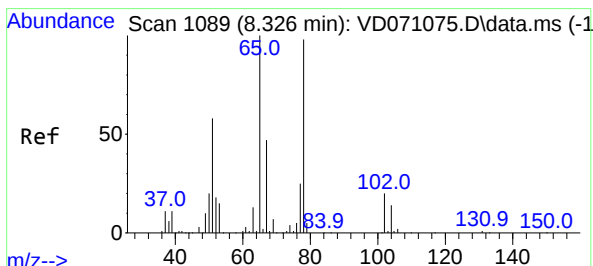
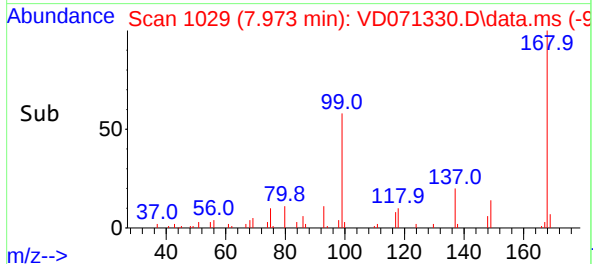
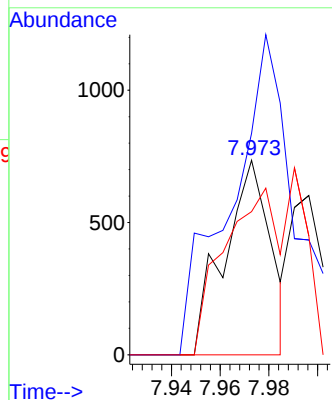


#31
Cyclohexane
Concen: 1.158 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.012 min
Lab File: VD071330.D
Acq: 14 Dec 2021 19:41

Instrument :
MSVOA_D
ClientSampleId :

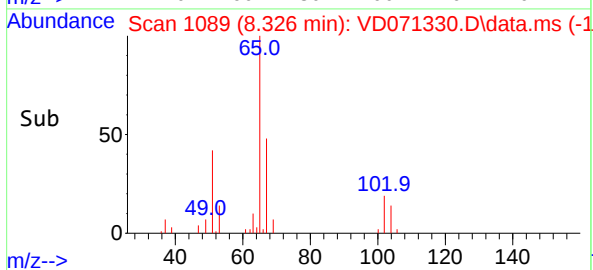
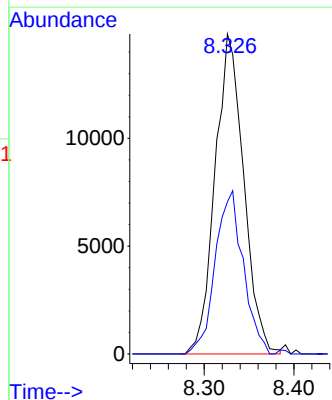
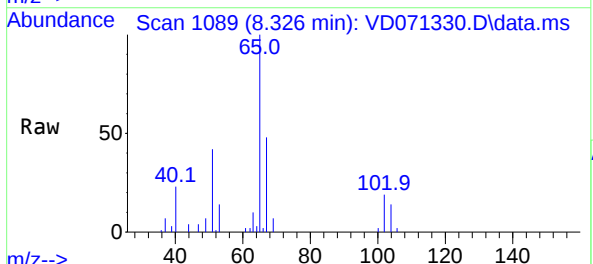


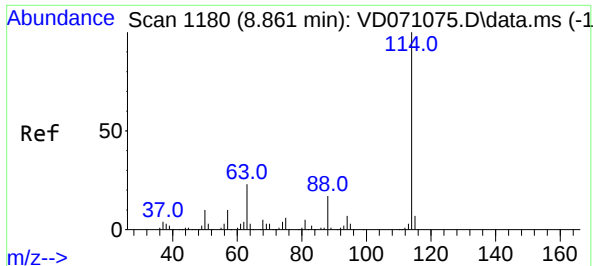
Tgt Ion: 56 Resp: 966
Ion Ratio Lower Upper
56 100
69 113.9 25.9 38.9#
84 73.6 64.3 96.5



#33
1,2-Dichloroethane-d4
Concen: 67.127 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VD071330.D
Acq: 14 Dec 2021 19:41

Tgt Ion: 65 Resp: 32913
Ion Ratio Lower Upper
65 100
67 49.9 0.0 112.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD071330.D

Acq: 14 Dec 2021 19:41

Instrument :

MSVOA_D

ClientSampleId :

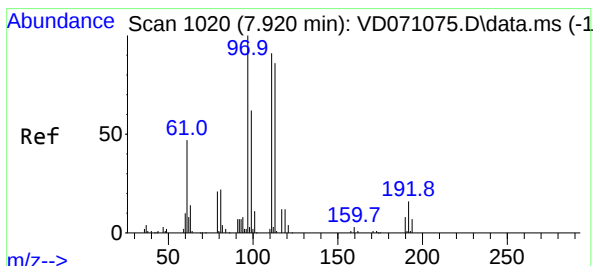
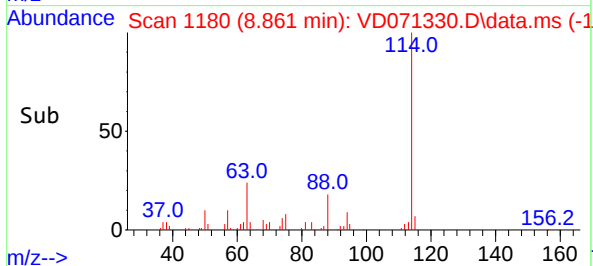
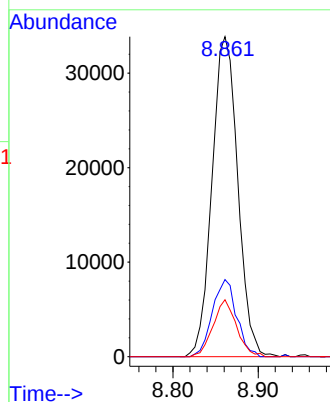
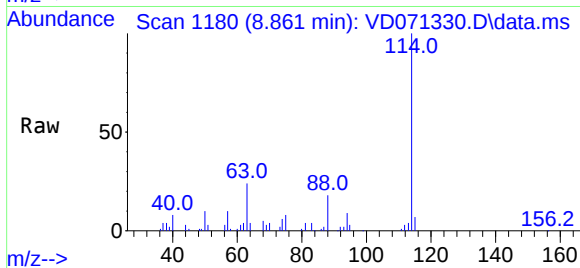
Tgt Ion:114 Resp: 71029

Ion Ratio Lower Upper

114 100

63 24.1 0.0 41.8

88 17.8 0.0 32.8



#35

Dibromofluoromethane

Concen: 51.647 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. -0.006 min

Lab File: VD071330.D

Acq: 14 Dec 2021 19:41

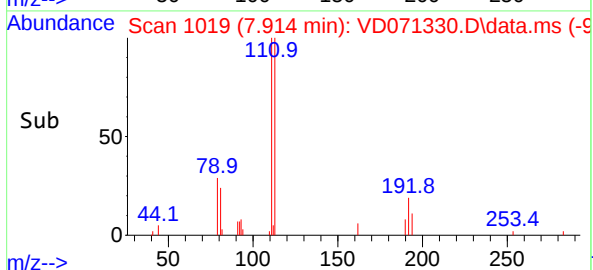
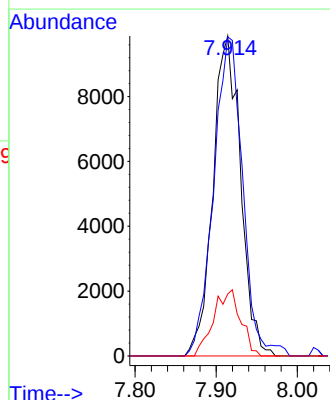
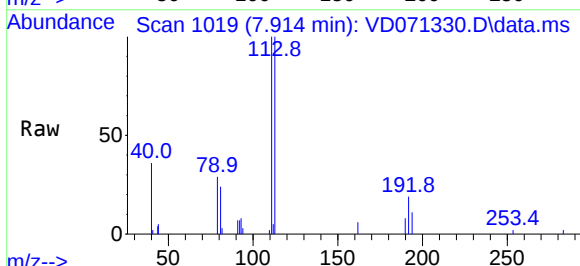
Tgt Ion:113 Resp: 23360

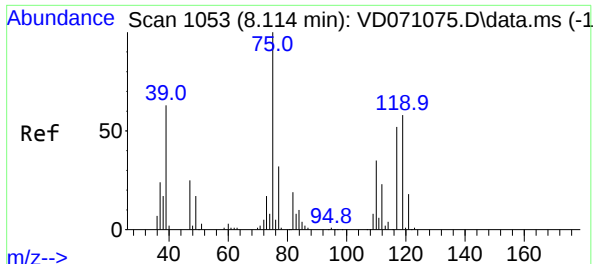
Ion Ratio Lower Upper

113 100

111 104.6 82.0 123.0

192 20.3 15.2 22.8





#36

1,1-Dichloropropene

Concen: 6.711 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.141 min

Lab File: VD071330.D

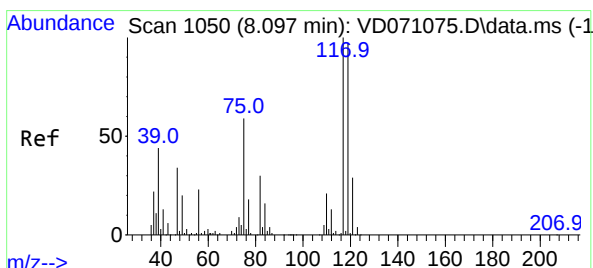
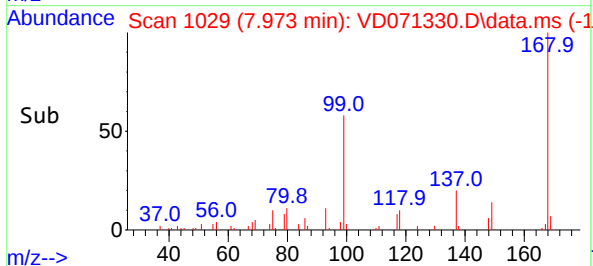
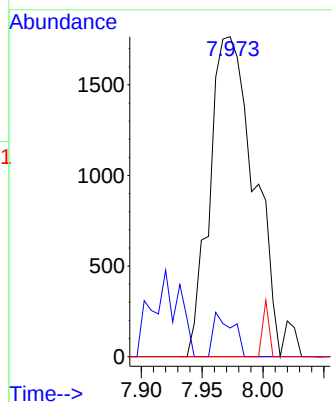
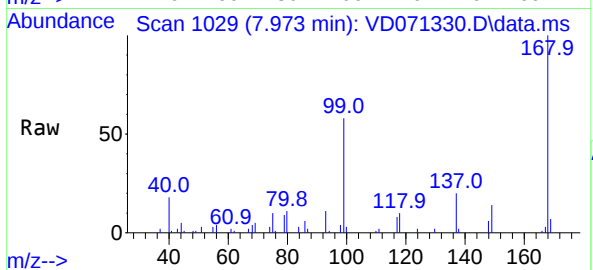
Acq: 14 Dec 2021 19:41

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion: 75	Resp: 4455
Ion Ratio	Lower Upper
75 100	
110 6.1	17.8 53.4#
77 0.0	24.8 37.2#



#38

Carbon Tetrachloride

Concen: 7.314 ug/l

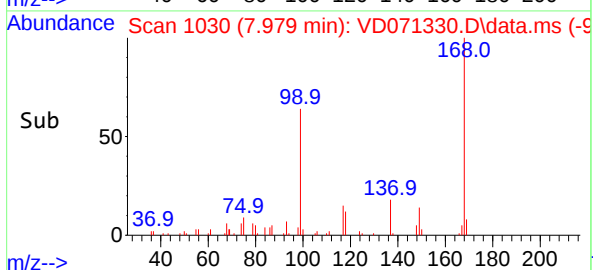
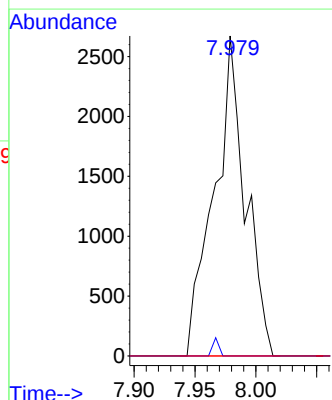
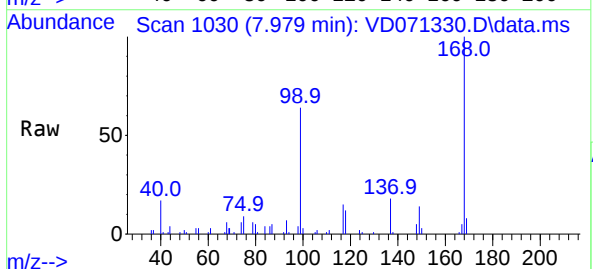
RT: 7.979 min Scan# 1030

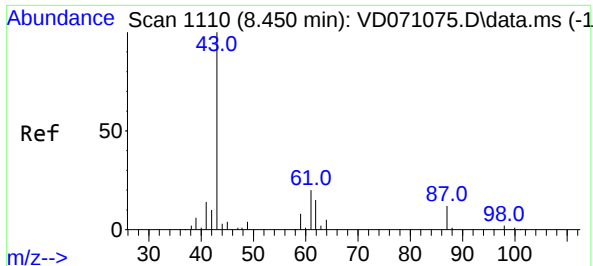
Delta R.T. -0.118 min

Lab File: VD071330.D

Acq: 14 Dec 2021 19:41

Tgt Ion: 117	Resp: 4786
Ion Ratio	Lower Upper
117 100	
119 0.0	75.8 113.6#
121 0.0	23.6 35.4#





#43

Isopropyl Acetate

Concen: 5.444 ug/l

RT: 8.443 min Scan# 1110

Delta R.T. -0.007 min

Lab File: VD071330.D

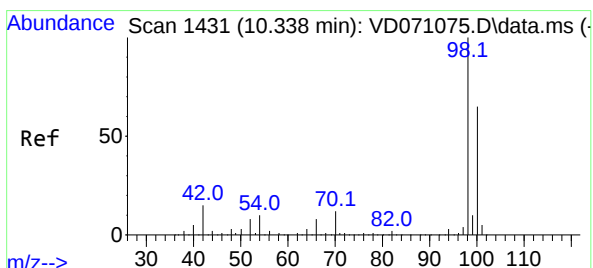
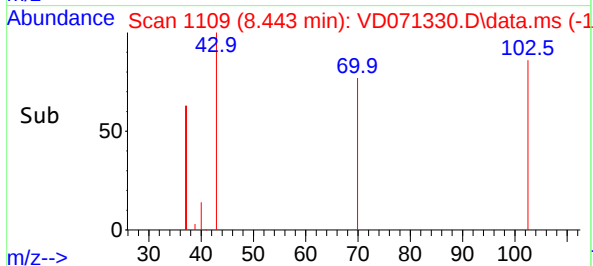
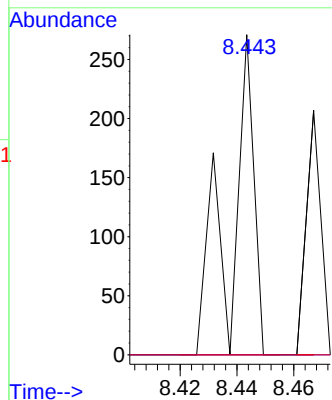
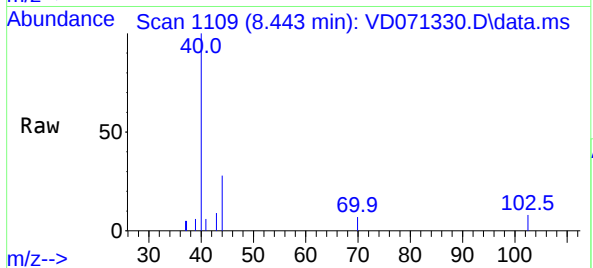
Acq: 14 Dec 2021 19:41

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion: 43	Resp:	156
Ion	Ratio	Lower Upper
43	100	
61	0.0	28.2 42.4#
87	0.0	10.7 16.1#



#50

Toluene-d8

Concen: 53.276 ug/l

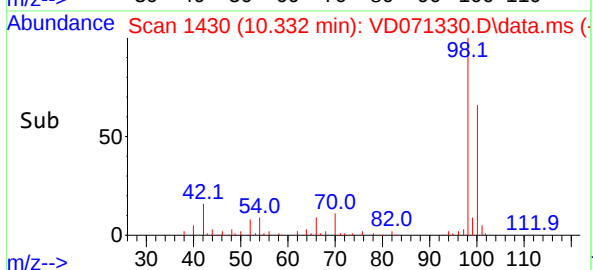
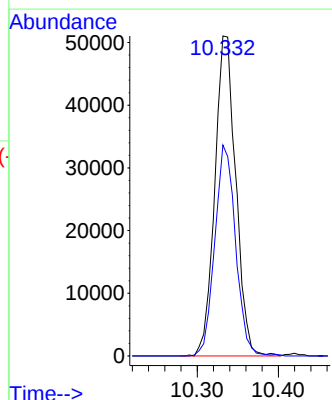
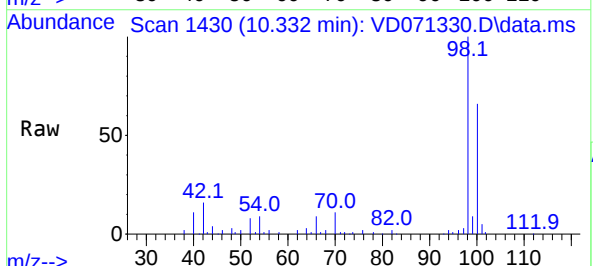
RT: 10.332 min Scan# 1430

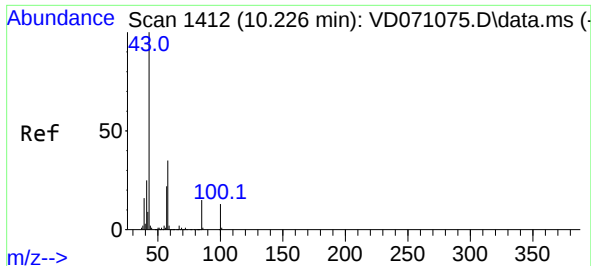
Delta R.T. -0.006 min

Lab File: VD071330.D

Acq: 14 Dec 2021 19:41

Tgt Ion: 98	Resp:	91702
Ion	Ratio	Lower Upper
98	100	
100	65.3	51.8 77.6

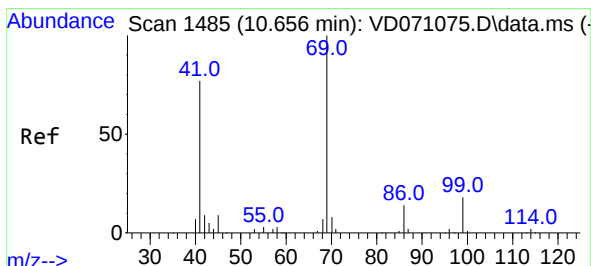
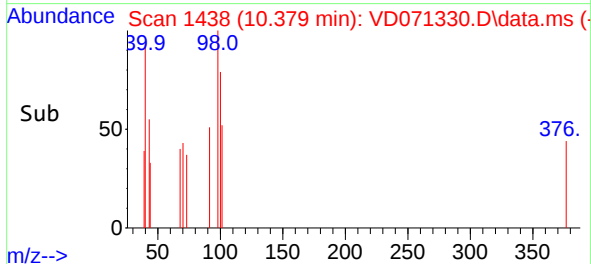
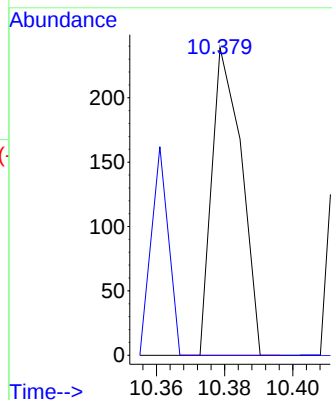
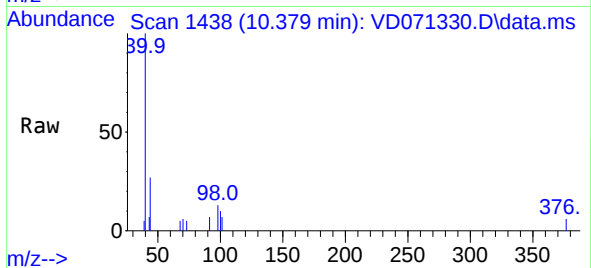




#51
4-Methyl-2-Pentanone
Concen: 31.042 ug/l
RT: 10.379 min Scan# 1412
Delta R.T. 0.153 min
Lab File: VD071330.D
Acq: 14 Dec 2021 19:41

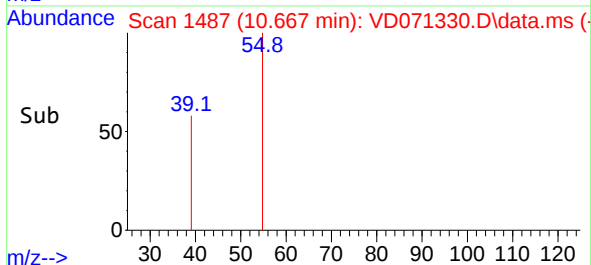
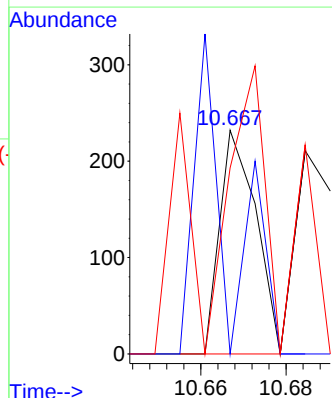
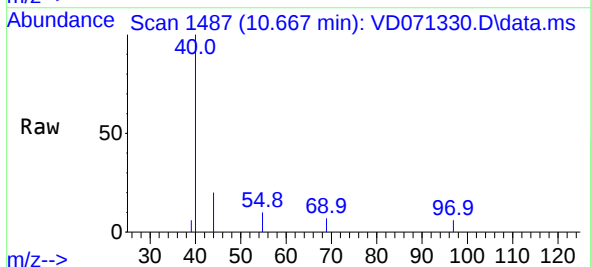
Instrument :
MSVOA_D
ClientSampleId :

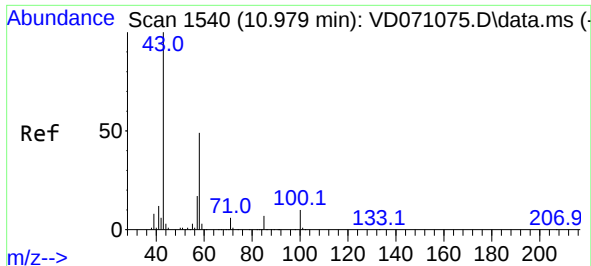
Tgt Ion: 43 Resp: 144
Ion Ratio Lower Upper
43 100
58 39.6 33.1 49.7



#56
Ethyl methacrylate
Concen: 6.230 ug/l
RT: 10.667 min Scan# 1487
Delta R.T. 0.011 min
Lab File: VD071330.D
Acq: 14 Dec 2021 19:41

Tgt Ion: 69 Resp: 137
Ion Ratio Lower Upper
69 100
41 137.2 50.2 75.2#
39 247.4 19.8 29.8#

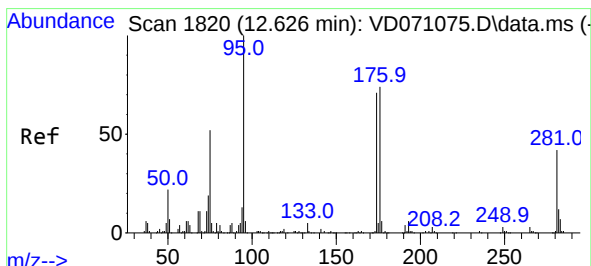
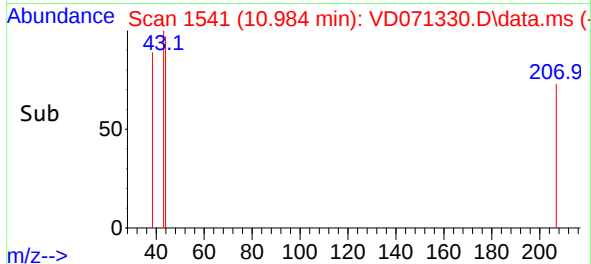
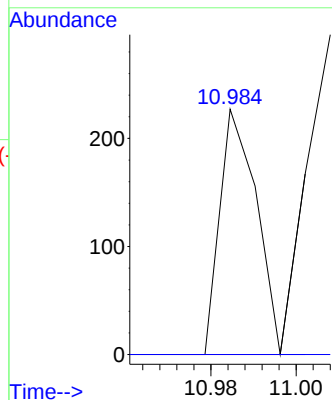
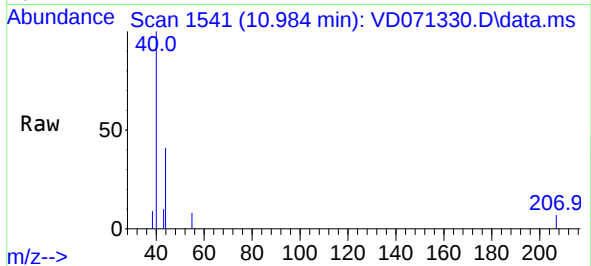




#59
2-Hexanone
Concen: 35.051 ug/l
RT: 10.984 min Scan# 11
Delta R.T. 0.005 min
Lab File: VD071330.D
Acq: 14 Dec 2021 19:41

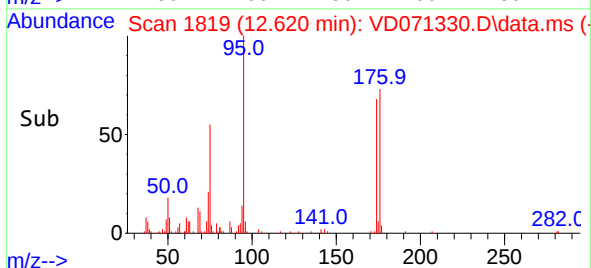
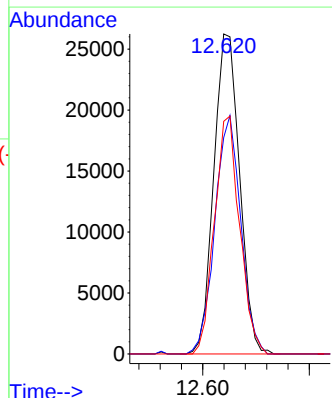
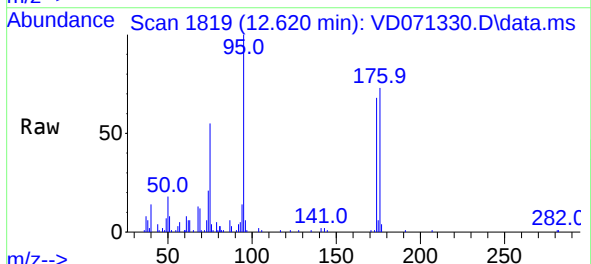
Instrument :
MSVOA_D
ClientSampleId :

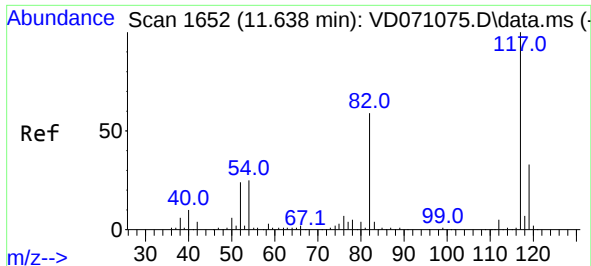
Tgt Ion: 43 Resp: 135
Ion Ratio Lower Upper
43 100
58 0.0 28.7 86.1#



#62
4-Bromofluorobenzene
Concen: 73.899 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD071330.D
Acq: 14 Dec 2021 19:41

Tgt Ion: 95 Resp: 44092
Ion Ratio Lower Upper
95 100
174 74.7 0.0 159.4
176 72.7 0.0 154.0

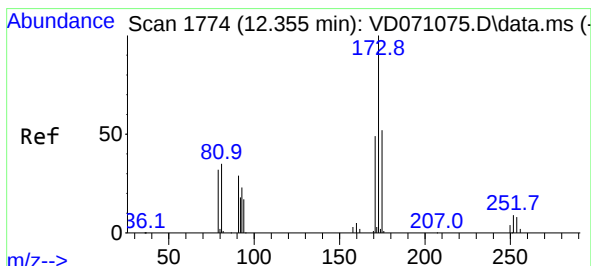
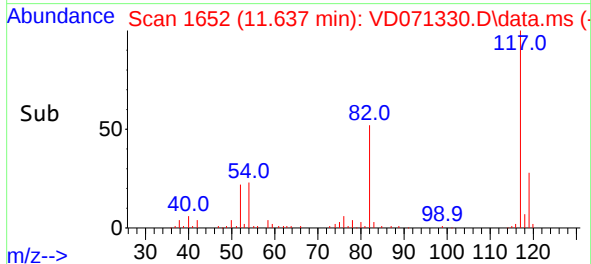
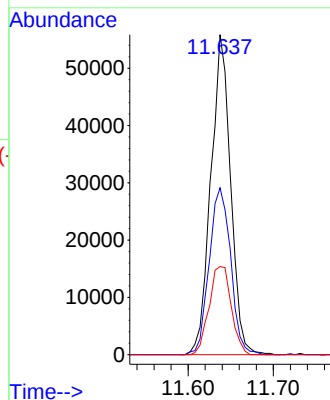
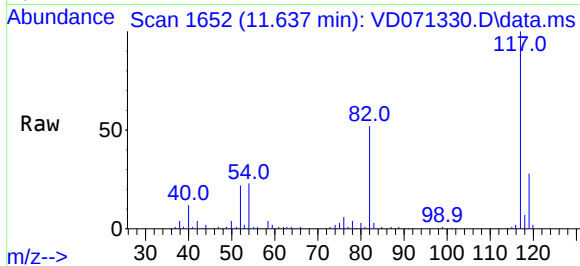




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.637 min Scan# 11
Delta R.T. -0.001 min
Lab File: VD071330.D
Acq: 14 Dec 2021 19:41

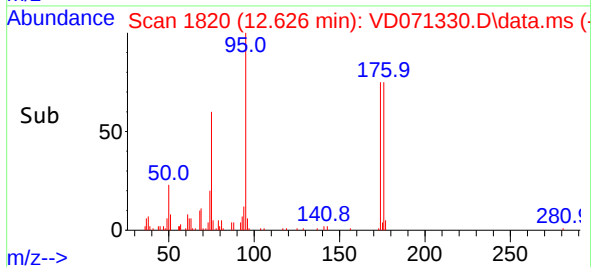
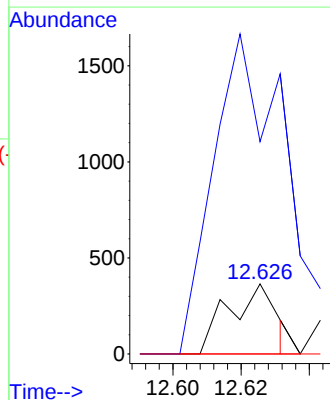
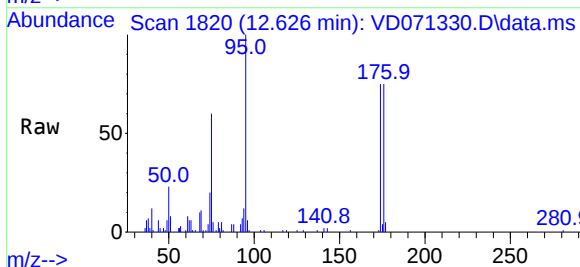
Instrument :
MSVOA_D
ClientSampleId :

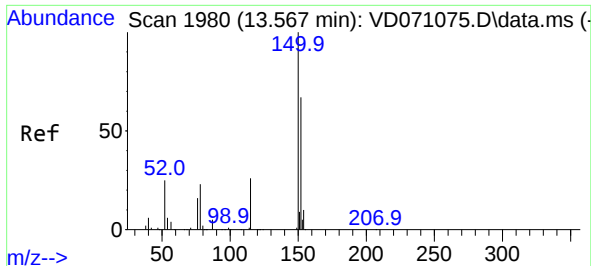
Tgt Ion:117 Resp: 90017
Ion Ratio Lower Upper
117 100
82 52.1 44.7 67.1
119 27.6 26.2 39.4



#71
Bromoform
Concen: 1.121 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.271 min
Lab File: VD071330.D
Acq: 14 Dec 2021 19:41

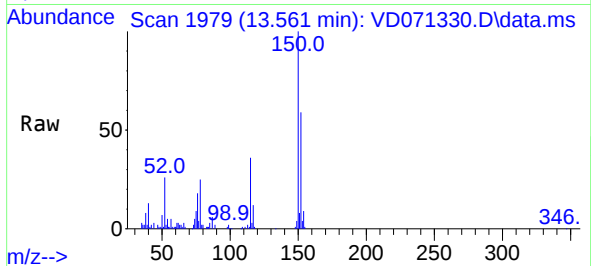
Tgt Ion:173 Resp: 354
Ion Ratio Lower Upper
173 100
175 453.4 24.1 72.2#
254 0.0 0.1 0.1#



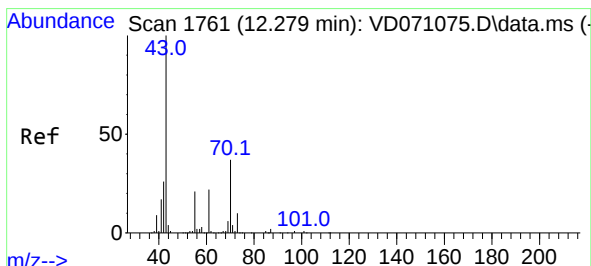
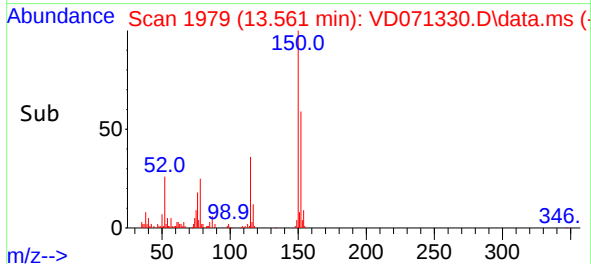
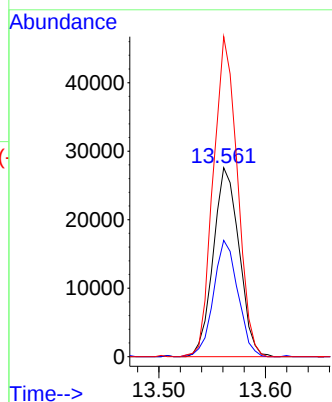


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1980
Delta R.T. -0.006 min
Lab File: VD071330.D
Acq: 14 Dec 2021 19:41

Instrument :
MSVOA_D
ClientSampleId :

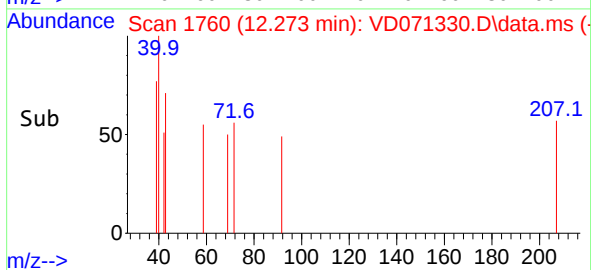
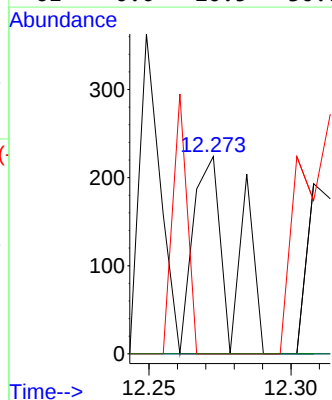
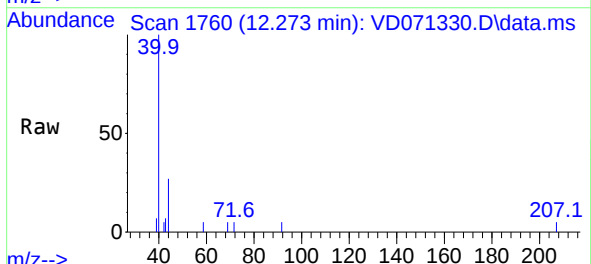


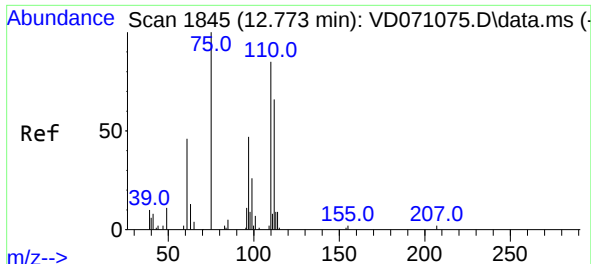
Tgt Ion:152 Resp: 46469
Ion Ratio Lower Upper
152 100
115 58.3 29.8 89.3
150 158.2 0.0 349.2



#74
N-ethyl acetate
Concen: 5.910 ug/l
RT: 12.273 min Scan# 1760
Delta R.T. -0.006 min
Lab File: VD071330.D
Acq: 14 Dec 2021 19:41

Tgt Ion: 43 Resp: 217
Ion Ratio Lower Upper
43 100
70 0.0 36.6 55.0#
55 47.9 22.5 33.7#
61 0.0 20.5 30.7#

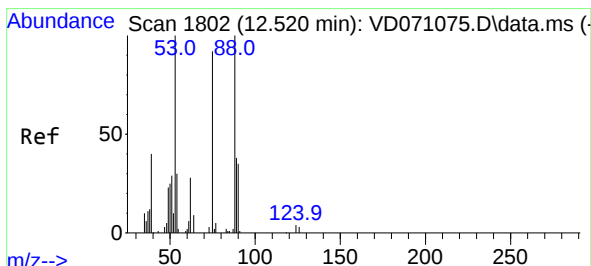
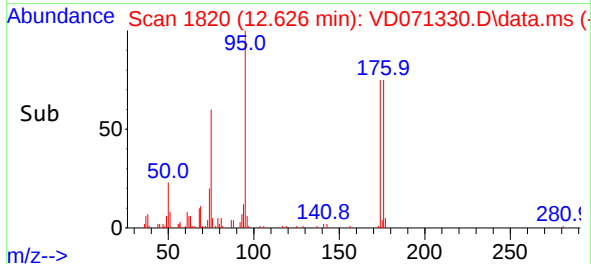
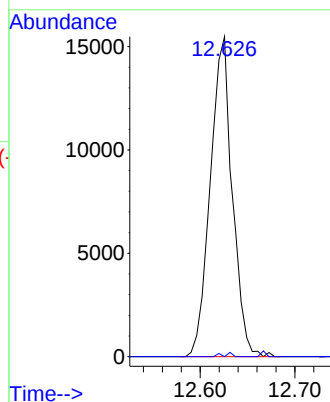
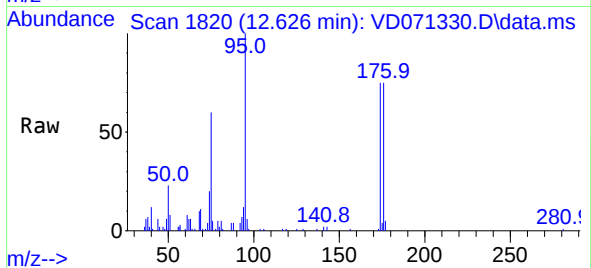




#76
1,2,3-Trichloropropane
Concen: 56.458 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD071330.D
Acq: 14 Dec 2021 19:41

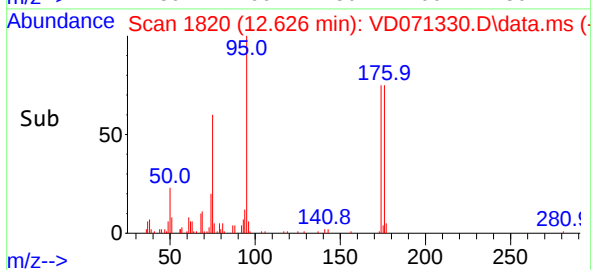
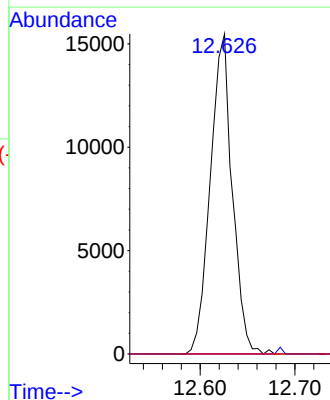
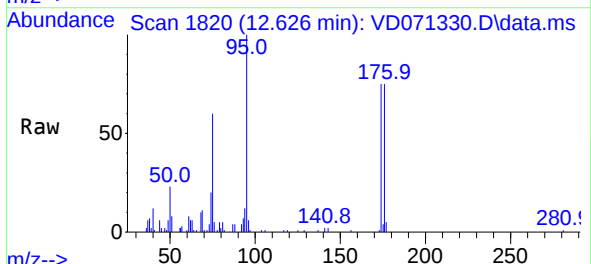
Instrument :
MSVOA_D
ClientSampleId :

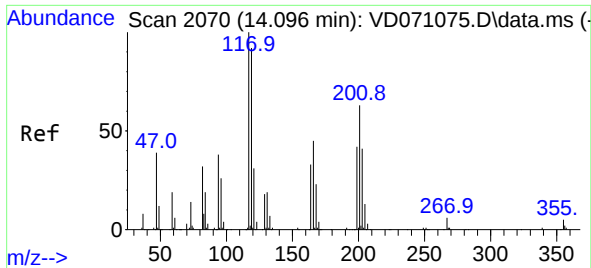
Tgt Ion: 75 Resp: 24996
Ion Ratio Lower Upper
75 100
77 0.2 158.4 475.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 122.577 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.106 min
Lab File: VD071330.D
Acq: 14 Dec 2021 19:41

Tgt Ion: 75 Resp: 24996
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 0.0 34.5 51.7#

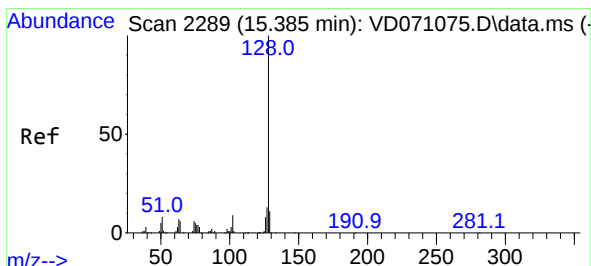
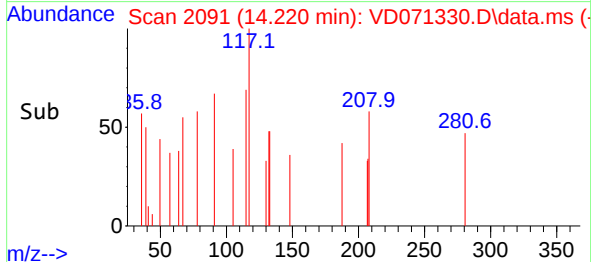
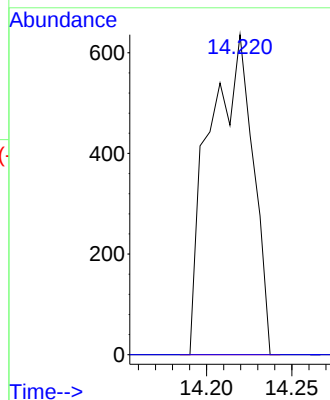
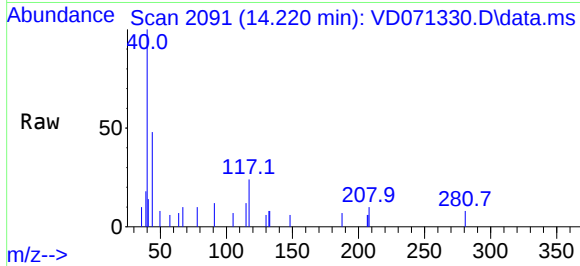




#90
Hexachloroethane
Concen: 2.003 ug/l
RT: 14.220 min Scan# 2070
Delta R.T. 0.124 min
Lab File: VD071330.D
Acq: 14 Dec 2021 19:41

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion:117 Resp: 1130
Ion Ratio Lower Upper
117 100
201 0.0 36.0 108.1#



#95
Naphthalene
Concen: 1.251 ug/l
RT: 15.372 min Scan# 2287
Delta R.T. -0.013 min
Lab File: VD071330.D
Acq: 14 Dec 2021 19:41

Tgt Ion:128 Resp: 1697
Ion Ratio Lower Upper
128 100
127 5.5 10.7 16.1#
129 4.6 8.7 13.1#

