

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD120321\
 Data File : VD071133.D
 Acq On : 03 Dec 2021 14:03
 Operator : VA/SY
 Sample : M4920-01
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FDR-20211202-WC-S

Quant Time: Dec 04 03:50:23 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

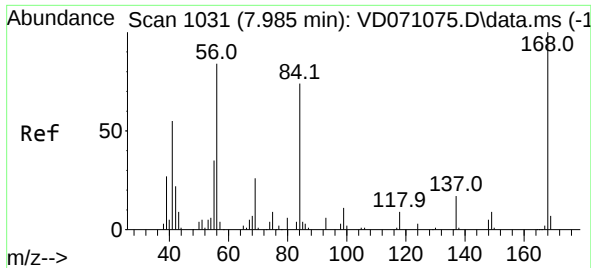
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.979	168	19564	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	32010	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	35680	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	16267	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	15176	66.109	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 132.220%			
35) Dibromofluoromethane	7.914	113	9228	45.272	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 90.540%			
50) Toluene-d8	10.338	98	39741	51.232	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 102.460%			
62) 4-Bromofluorobenzene	12.626	95	16523	61.450	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 122.900%			
Target Compounds						Qvalue
3) Chloromethane	2.220	50	909	4.118	ug/l	92
5) Bromomethane	2.791	94	1168	6.580	ug/l #	37
10) Methyl Iodide	4.285	142	97	4.946	ug/l #	1
11) Tert butyl alcohol	5.197	59	139	Below Cal	#	71
16) Acetone	4.173	43	2068	60.543	ug/l #	40
20) Methylene Chloride	4.973	84	895	Below Cal	#	77
23) Vinyl Acetate	6.350	43	237	27.783	ug/l #	72
25) 2-Butanone	7.203	43	201	30.890	ug/l #	45
29) Tetrahydrofuran	7.555	42	84	2.304	ug/l #	34
36) 1,1-Dichloropropene	7.979	75	1780	5.950	ug/l #	41
37) Ethyl Acetate	7.267	43	229	1.772	ug/l #	66
38) Carbon Tetrachloride	7.991	117	2378	8.063	ug/l #	12
41) Methacrylonitrile	7.491	41	139	Below Cal	#	12
43) Isopropyl Acetate	8.479	43	54	5.393	ug/l #	47
51) 4-Methyl-2-Pentanone	10.214	43	410	33.120	ug/l #	34
59) 2-Hexanone	10.961	43	118	35.500	ug/l #	22
74) N-amyl acetate	12.273	43	131	6.061	ug/l #	1
76) 1,2,3-Trichloropropane	12.626	75	9946	64.174	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.626	75	9946	138.540	ug/l #	19
83) tert-Butylbenzene	13.214	119	17077	20.473	ug/l	99
90) Hexachloroethane	14.214	117	2494	12.626	ug/l #	14
92) 1,2-Dibromo-3-Chloropr...	14.214	75	275	8.706	ug/l #	4

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

Quant Time: Dec 04 03:50:23 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

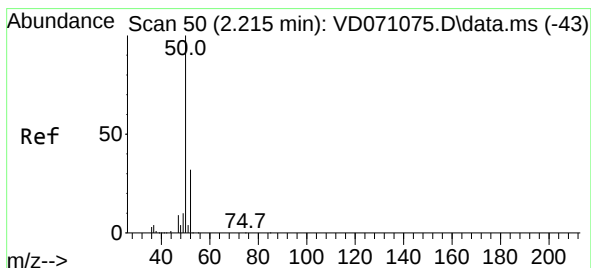
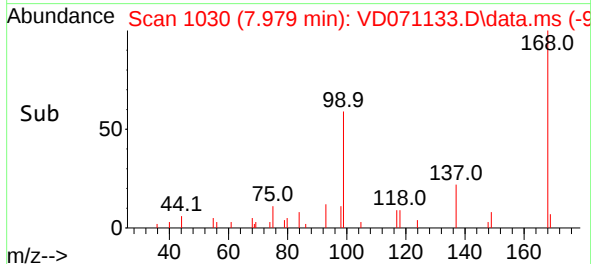
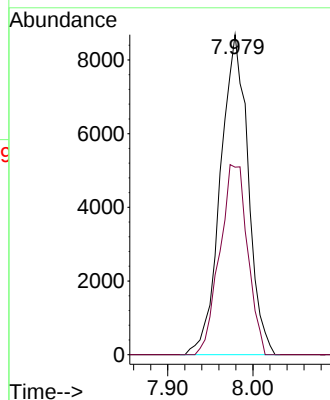
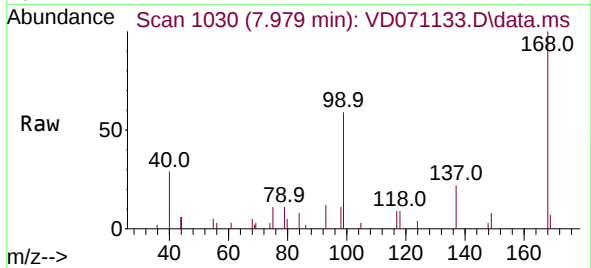




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VD071133.D
Acq: 03 Dec 2021 14:03

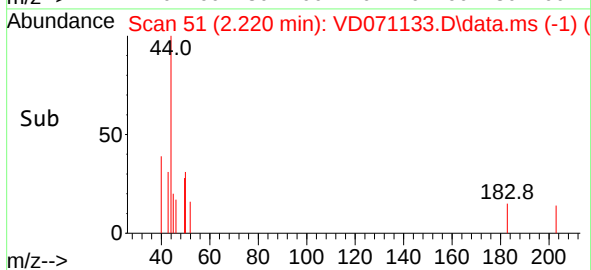
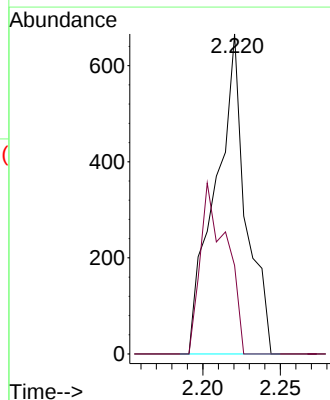
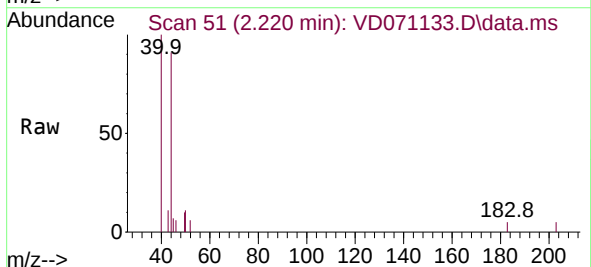
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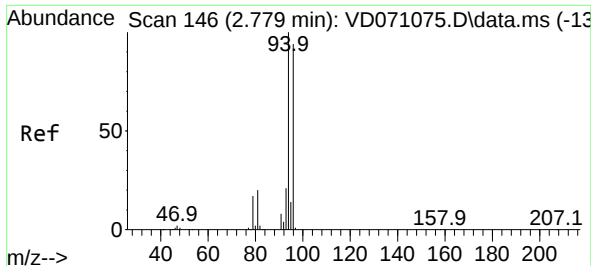
Tgt Ion:168 Resp: 19564
Ion Ratio Lower Upper
168 100
99 58.6 46.6 69.8



#3
Chloromethane
Concen: 4.118 ug/l
RT: 2.220 min Scan# 51
Delta R.T. 0.005 min
Lab File: VD071133.D
Acq: 03 Dec 2021 14:03

Tgt Ion: 50 Resp: 909
Ion Ratio Lower Upper
50 100
52 27.6 25.8 38.8

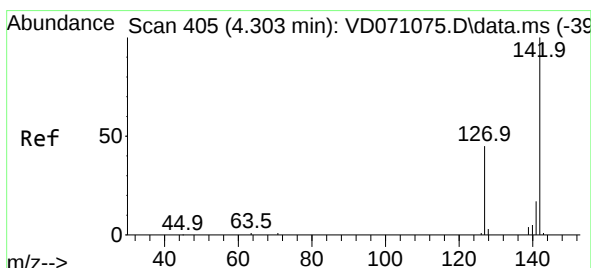
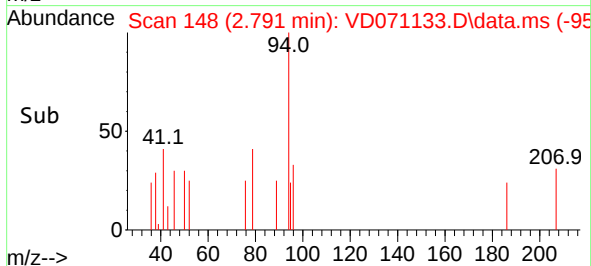
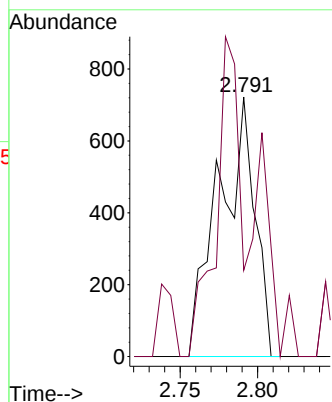
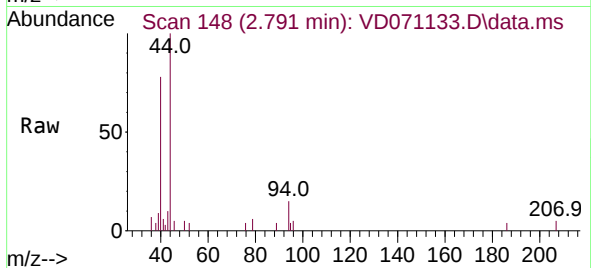




#5
Bromomethane
Concen: 6.580 ug/l
RT: 2.791 min Scan# 146
Delta R.T. 0.012 min
Lab File: VD071133.D
Acq: 03 Dec 2021 14:03

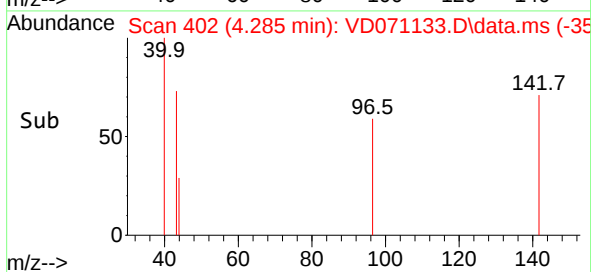
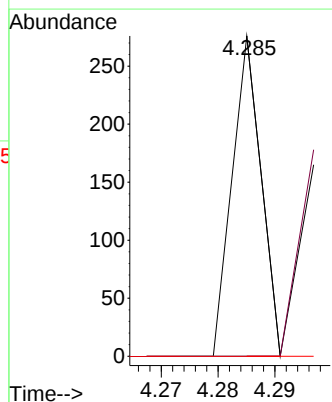
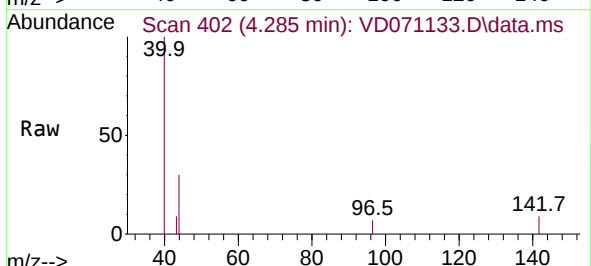
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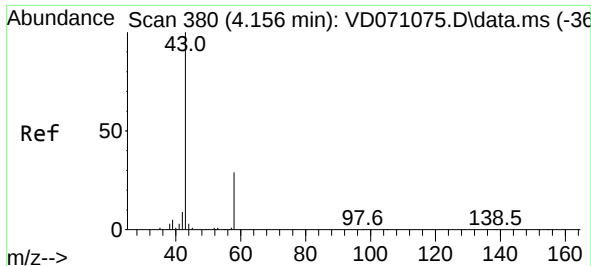
Tgt Ion: 94 Resp: 1168
Ion Ratio Lower Upper
94 100
96 33.2 74.8 112.2#



#10
Methyl Iodide
Concen: 4.946 ug/l
RT: 4.285 min Scan# 402
Delta R.T. -0.018 min
Lab File: VD071133.D
Acq: 03 Dec 2021 14:03

Tgt Ion: 142 Resp: 97
Ion Ratio Lower Upper
142 100
127 129.9 35.0 52.4#
141 0.0 12.0 18.0#

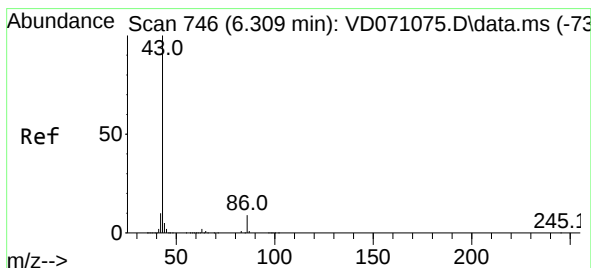
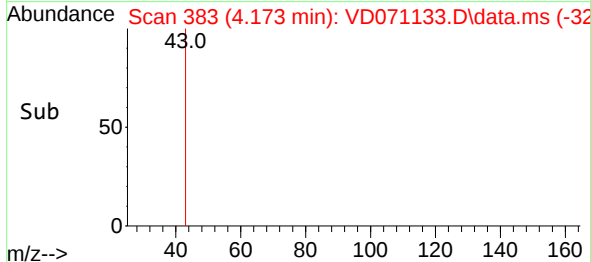
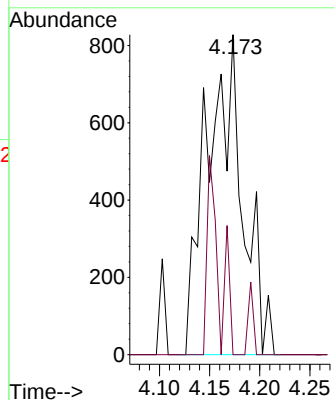
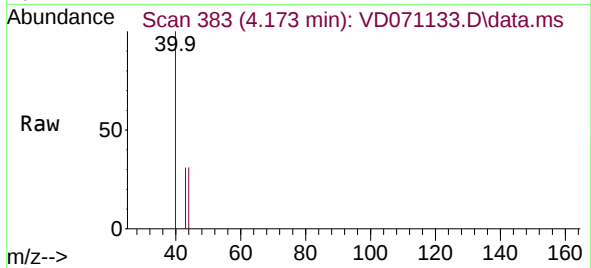




#16
Acetone
Concen: 60.543 ug/l
RT: 4.173 min Scan# 31
Delta R.T. 0.017 min
Lab File: VD071133.D
Acq: 03 Dec 2021 14:03

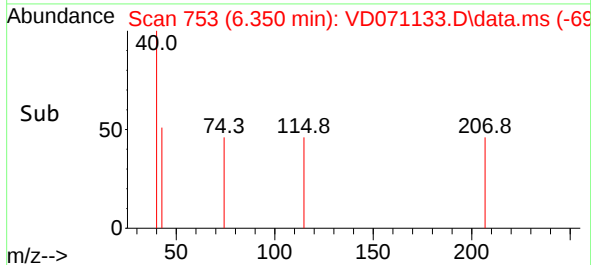
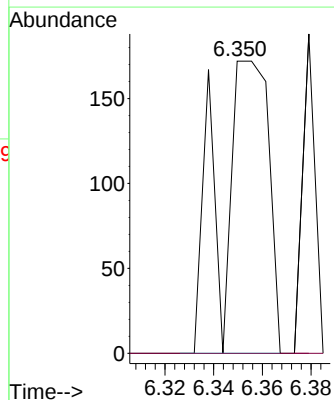
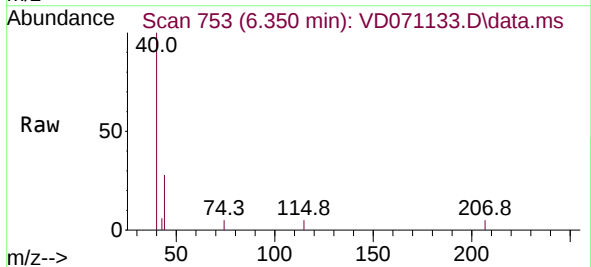
Instrument :
MSVOA_D
ClientSampleId :
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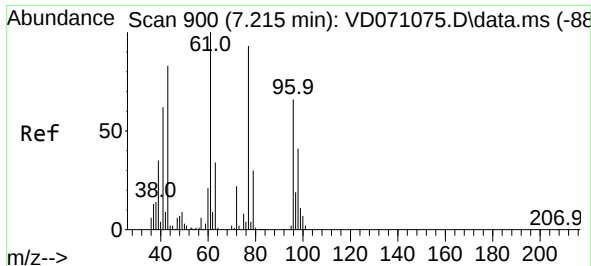
Tgt Ion: 43 Resp: 2068
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#



#23
Vinyl Acetate
Concen: 27.783 ug/l
RT: 6.350 min Scan# 753
Delta R.T. 0.041 min
Lab File: VD071133.D
Acq: 03 Dec 2021 14:03

Tgt Ion: 43 Resp: 237
Ion Ratio Lower Upper
43 100
86 0.0 8.2 12.4#

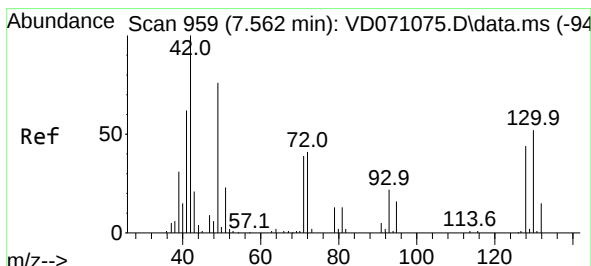
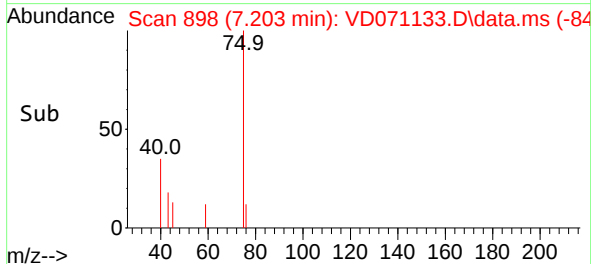
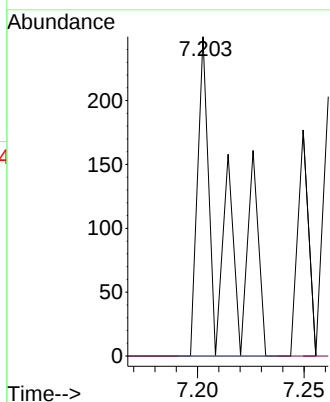
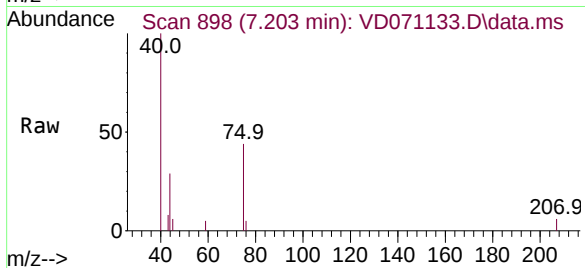




#25
2-Butanone
Concen: 30.890 ug/l
RT: 7.203 min Scan# 898
Delta R.T. -0.012 min
Lab File: VD071133.D
Acq: 03 Dec 2021 14:03

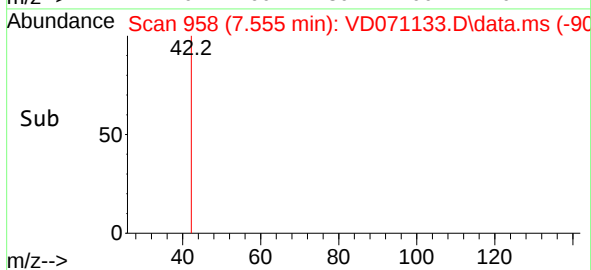
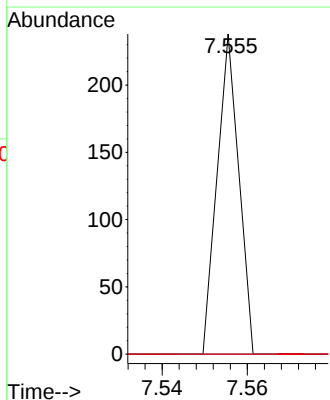
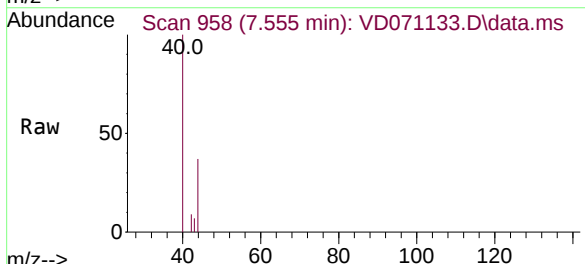
Instrument :
MSVOA_D
ClientSampleId :
FDR-20211202-WC-S

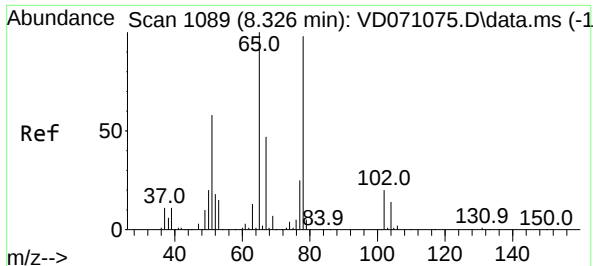
Tgt Ion: 43 Resp: 201
Ion Ratio Lower Upper
43 100
72 0.0 23.8 35.6#



#29
Tetrahydrofuran
Concen: 2.304 ug/l
RT: 7.555 min Scan# 958
Delta R.T. -0.007 min
Lab File: VD071133.D
Acq: 03 Dec 2021 14:03

Tgt Ion: 42 Resp: 84
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 0.0 32.7 49.1#





#33

1,2-Dichloroethane-d4

Concen: 66.109 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VD071133.D

Acq: 03 Dec 2021 14:03

Instrument :

MSVOA_D

ClientSampleId :

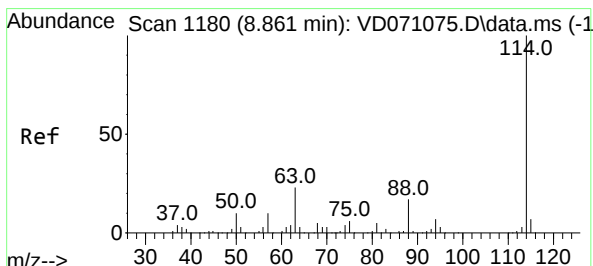
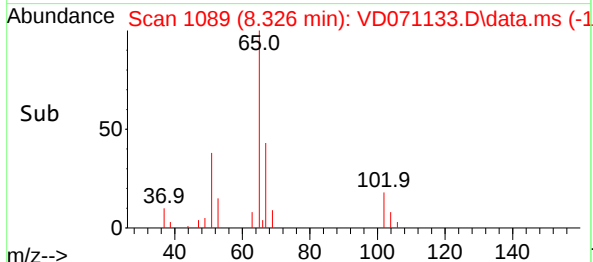
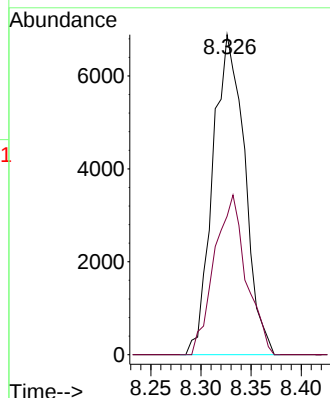
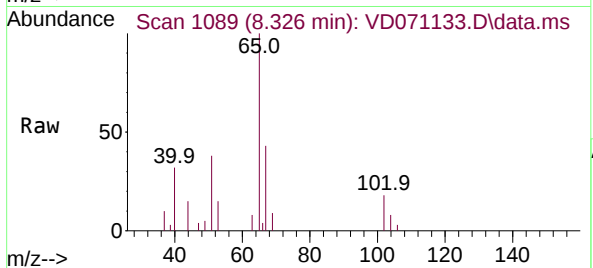
FDR-20211202-WC-S

Tgt Ion: 65 Resp: 15176

Ion Ratio Lower Upper

65 100

67 50.1 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: VD071133.D

Acq: 03 Dec 2021 14:03

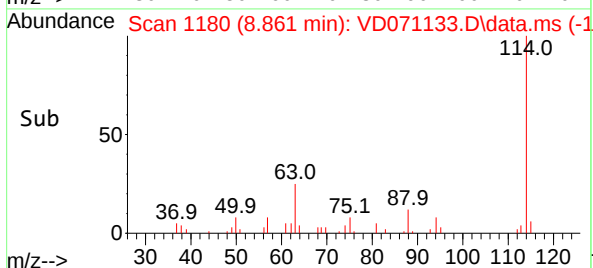
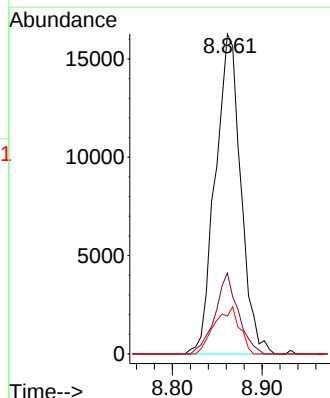
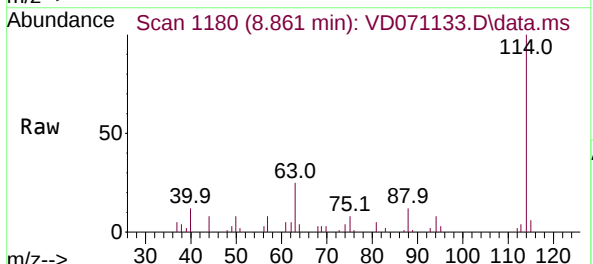
Tgt Ion: 114 Resp: 32010

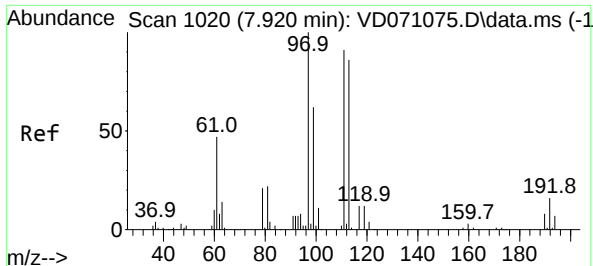
Ion Ratio Lower Upper

114 100

63 25.3 0.0 41.8

88 11.8 0.0 32.8





#35

Dibromofluoromethane

Concen: 45.272 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. -0.006 min

Lab File: VD071133.D

Acq: 03 Dec 2021 14:03

Instrument :

MSVOA_D

ClientSampleId :

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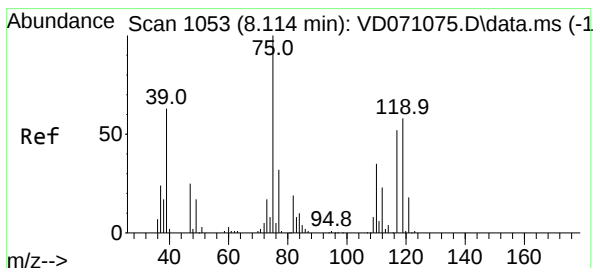
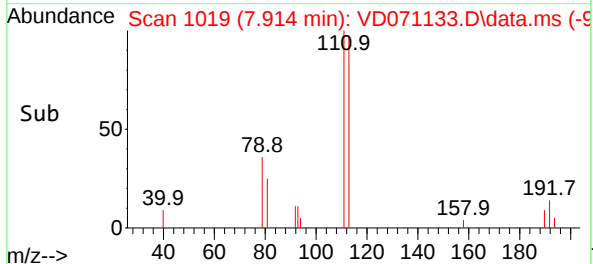
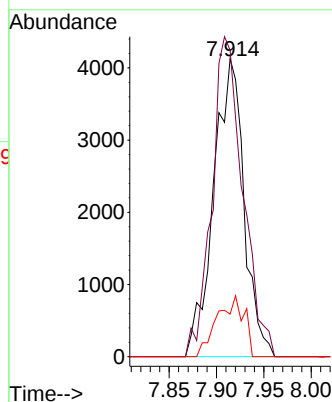
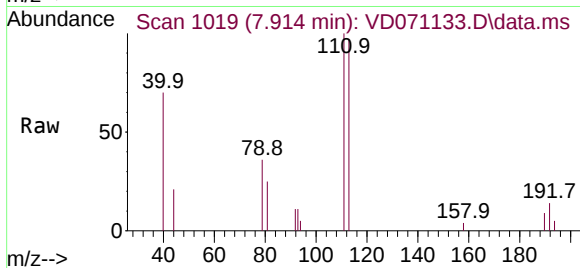
Tgt Ion:113 Resp: 9228

Ion Ratio Lower Upper

113 100

111 108.8 82.0 123.0

192 18.0 15.2 22.8



#36

1,1-Dichloropropene

Concen: 5.950 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. -0.135 min

Lab File: VD071133.D

Acq: 03 Dec 2021 14:03

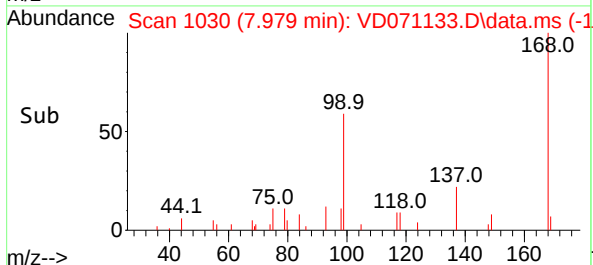
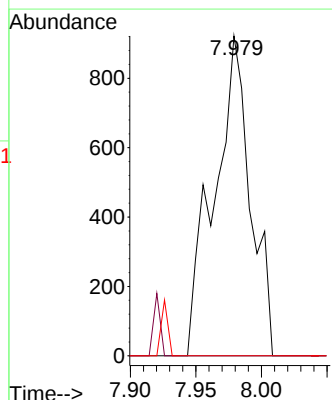
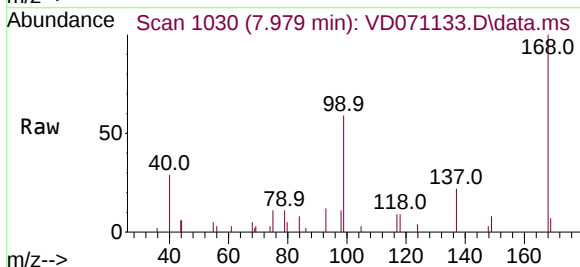
Tgt Ion: 75 Resp: 1780

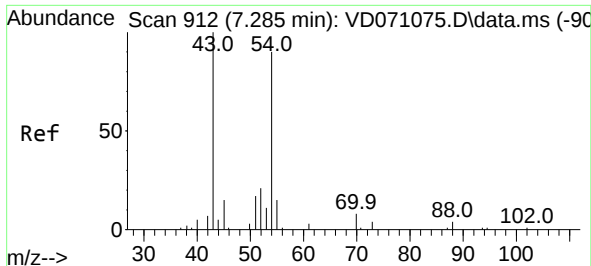
Ion Ratio Lower Upper

75 100

110 0.0 17.8 53.4#

77 0.0 24.8 37.2#





#37

Ethyl Acetate

Concen: 1.772 ug/l

RT: 7.267 min Scan# 909

Delta R.T. -0.018 min

Lab File: VD071133.D

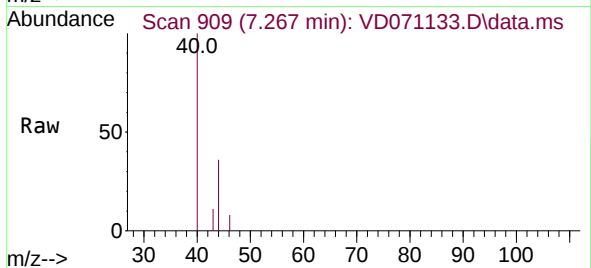
Acq: 03 Dec 2021 14:03

Instrument :

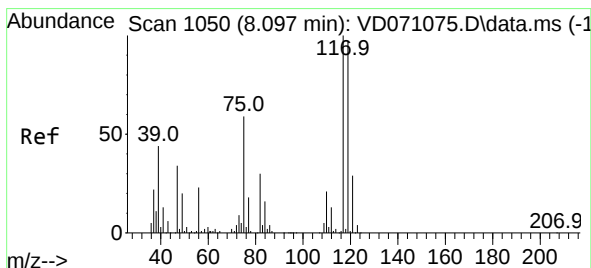
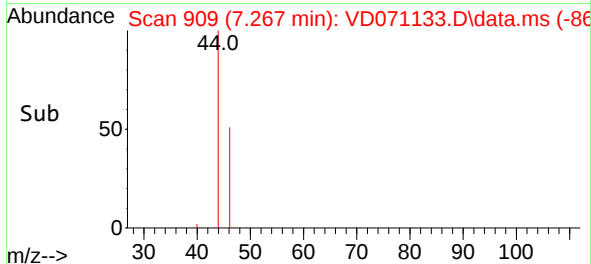
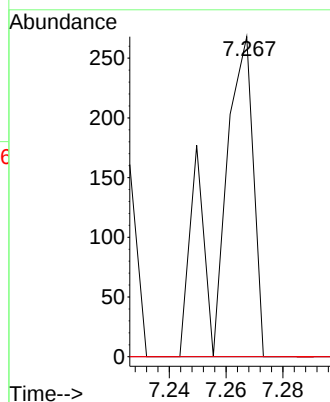
MSVOA_D

ClientSampleId :

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Tgt Ion: 43	Resp:	229
Ion	Ratio	Lower Upper
43	100	
61	0.0	13.0 19.6#
70	0.0	8.7 13.1#



#38

Carbon Tetrachloride

Concen: 8.063 ug/l

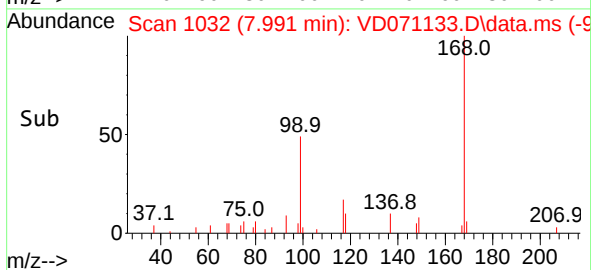
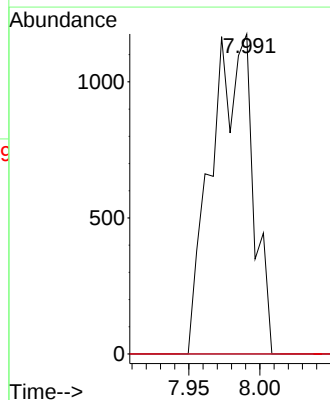
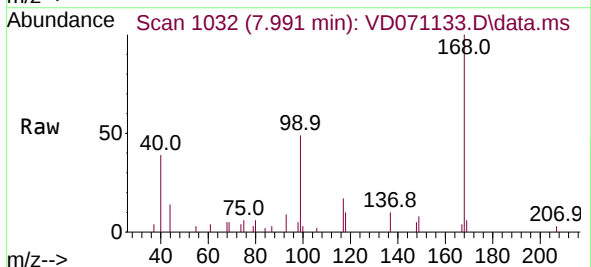
RT: 7.991 min Scan# 1032

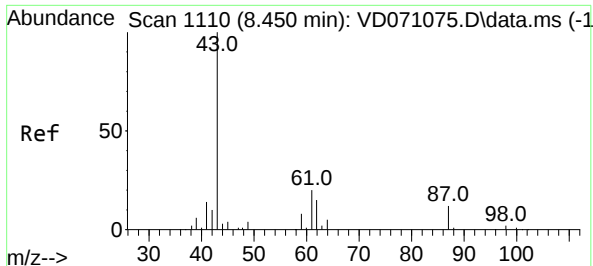
Delta R.T. -0.106 min

Lab File: VD071133.D

Acq: 03 Dec 2021 14:03

Tgt Ion: 117	Resp:	2378
Ion	Ratio	Lower Upper
117	100	
119	0.0	75.8 113.6#
121	0.0	23.6 35.4#





#43

Isopropyl Acetate

Concen: 5.393 ug/l

RT: 8.479 min Scan# 1115

Delta R.T. 0.029 min

Lab File: VD071133.D

Acq: 03 Dec 2021 14:03

Instrument :

MSVOA_D

ClientSampleId :

FDR-20211202-WC-S

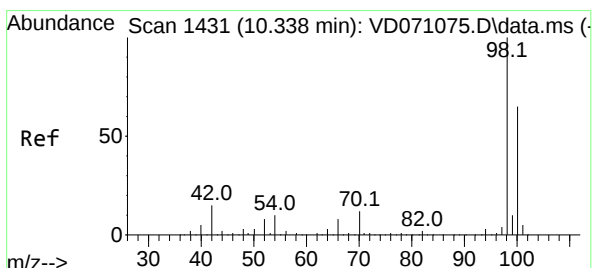
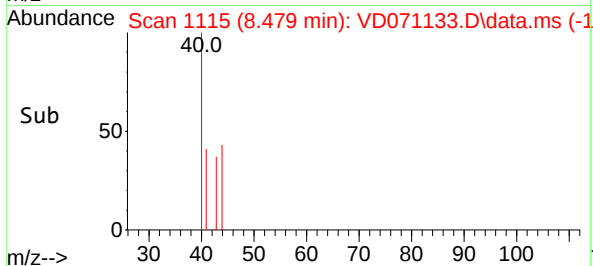
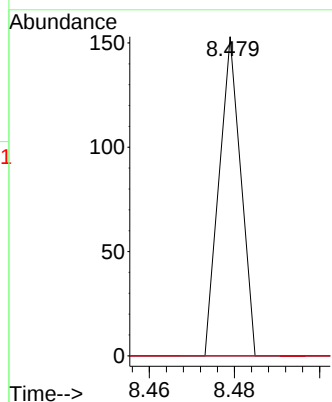
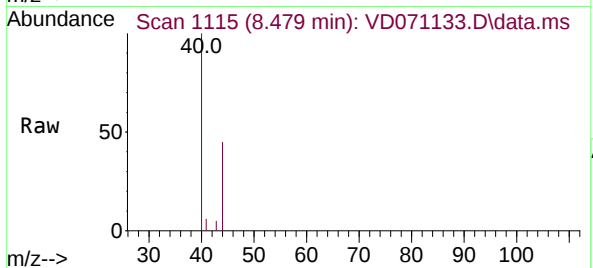
Tgt Ion: 43 Resp: 54

Ion Ratio Lower Upper

43 100

61 0.0 28.2 42.4#

87 0.0 10.7 16.1#



#50

Toluene-d8

Concen: 51.232 ug/l

RT: 10.338 min Scan# 1431

Delta R.T. -0.000 min

Lab File: VD071133.D

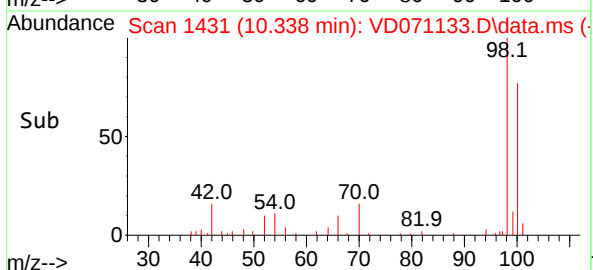
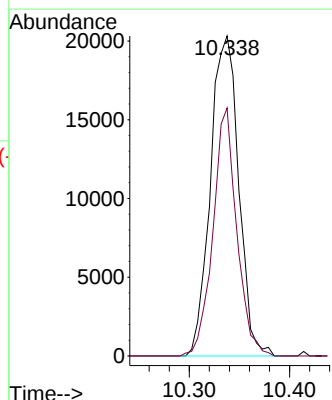
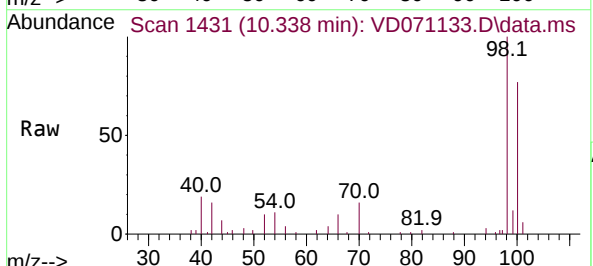
Acq: 03 Dec 2021 14:03

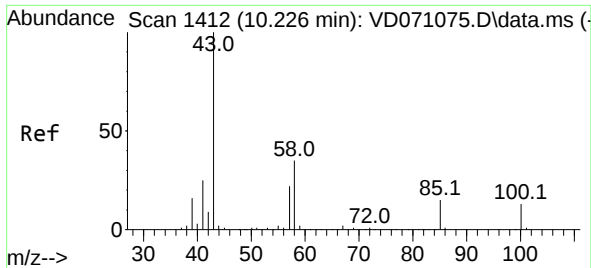
Tgt Ion: 98 Resp: 39741

Ion Ratio Lower Upper

98 100

100 65.3 51.8 77.6

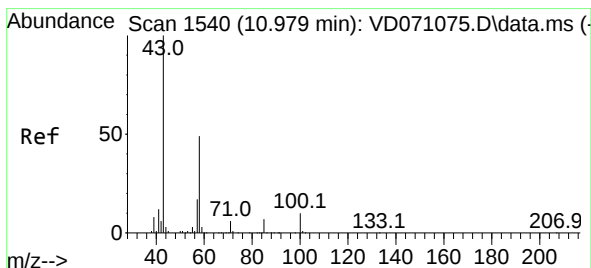
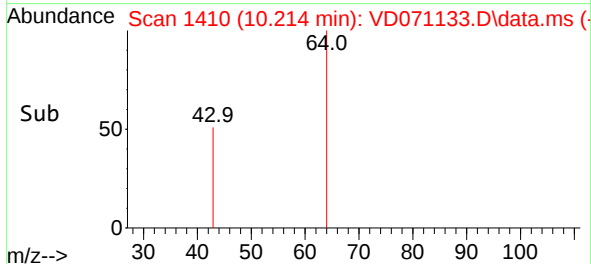
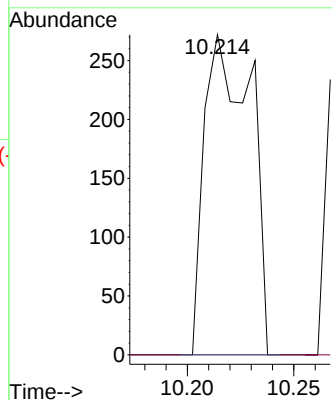
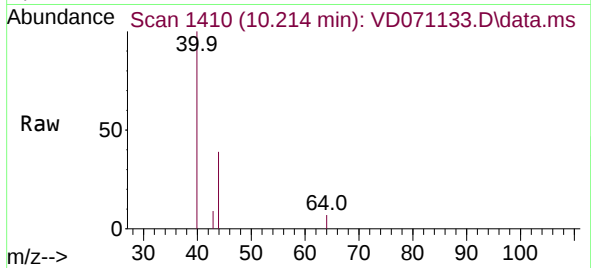




#51
4-Methyl-2-Pentanone
Concen: 33.120 ug/l
RT: 10.214 min Scan# 1412
Delta R.T. -0.012 min
Lab File: VD071133.D
Acq: 03 Dec 2021 14:03

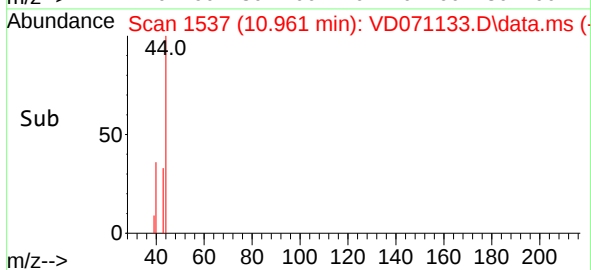
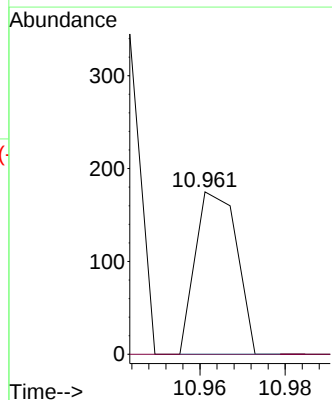
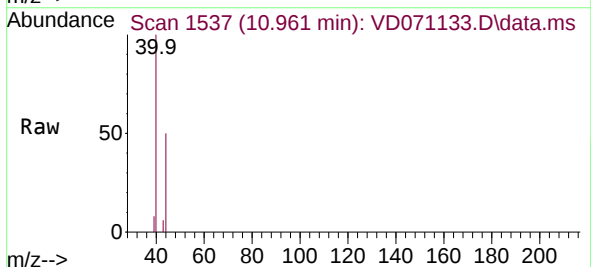
Instrument :
MSVOA_D
ClientSampleId :
FDR-20211202-WC-S

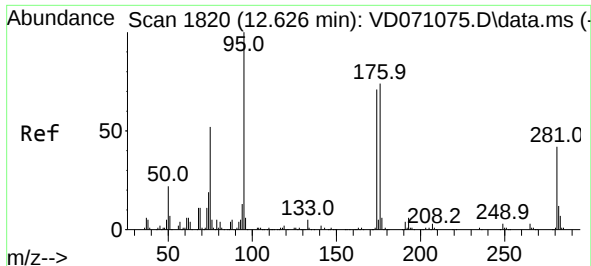
Tgt Ion: 43 Resp: 410
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#



#59
2-Hexanone
Concen: 35.500 ug/l
RT: 10.961 min Scan# 1537
Delta R.T. -0.018 min
Lab File: VD071133.D
Acq: 03 Dec 2021 14:03

Tgt Ion: 43 Resp: 118
Ion Ratio Lower Upper
43 100
58 0.0 28.7 86.1#

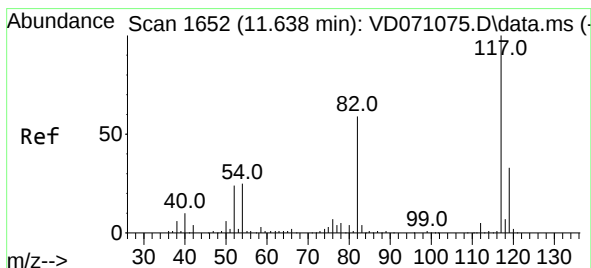
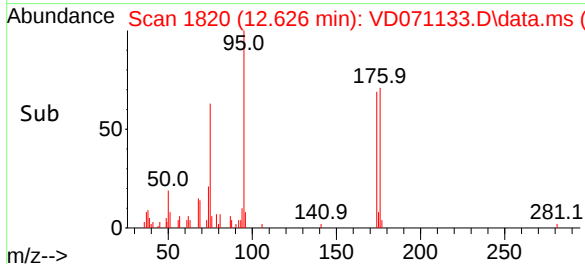
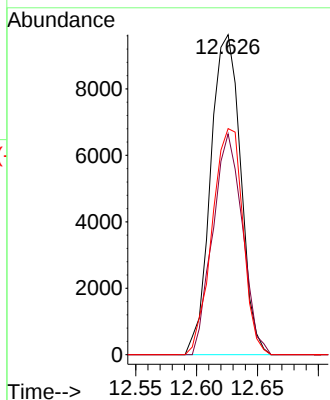
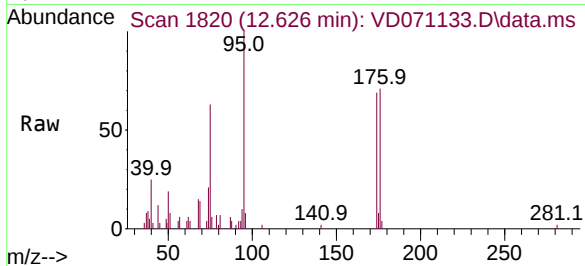




#62
4-Bromofluorobenzene
Concen: 61.450 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD071133.D
Acq: 03 Dec 2021 14:03

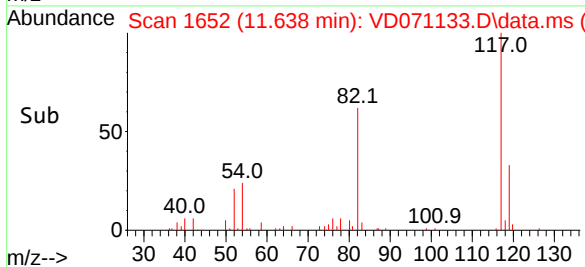
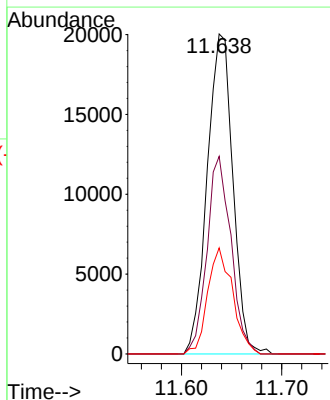
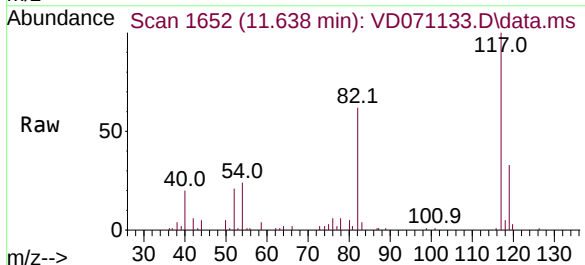
Instrument :
MSVOA_D
ClientSampleId :
FDR-20211202-WC-S

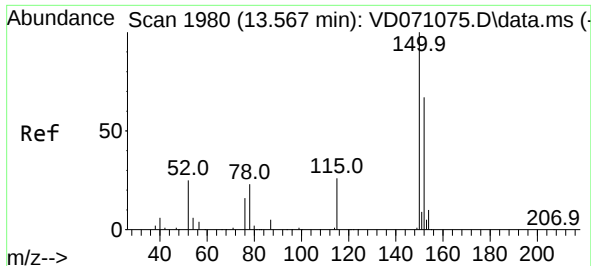
Tgt Ion: 95 Resp: 16523
Ion Ratio Lower Upper
95 100
174 68.4 0.0 159.4
176 72.3 0.0 154.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD071133.D
Acq: 03 Dec 2021 14:03

Tgt Ion: 117 Resp: 35680
Ion Ratio Lower Upper
117 100
82 61.8 44.7 67.1
119 33.2 26.2 39.4

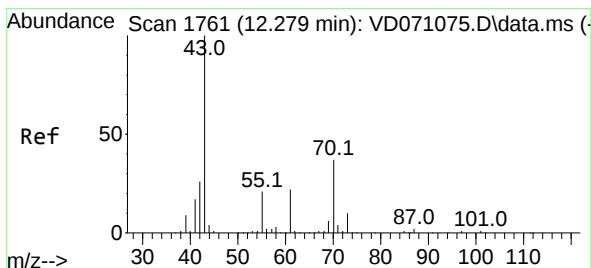
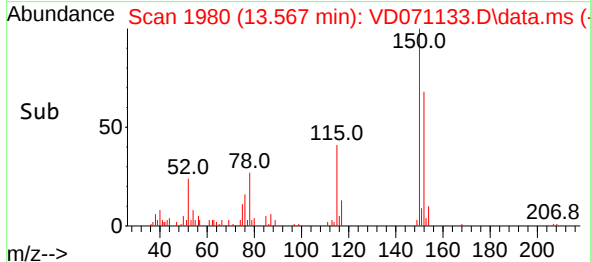
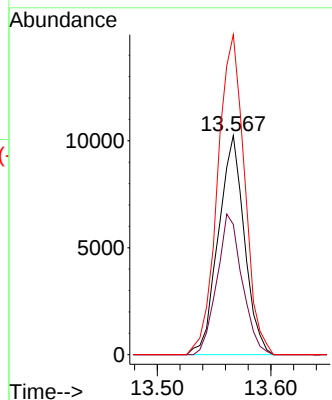
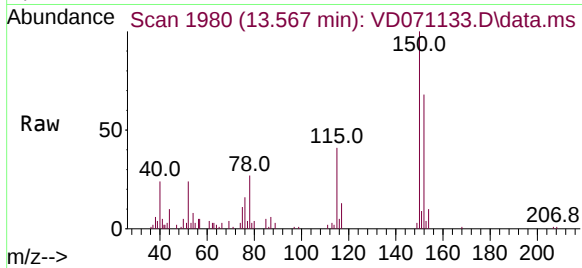




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. -0.000 min
Lab File: VD071133.D
Acq: 03 Dec 2021 14:03

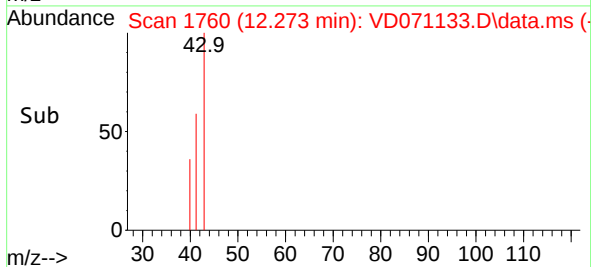
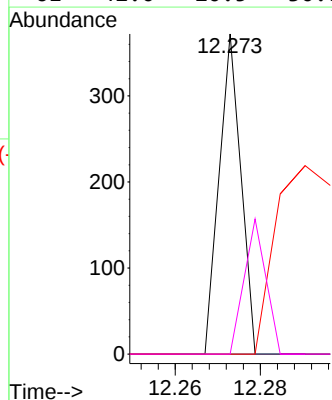
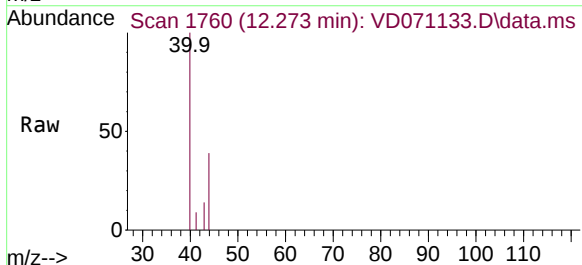
Instrument :
MSVOA_D
ClientSampleId :
FDR-20211202-WC-S

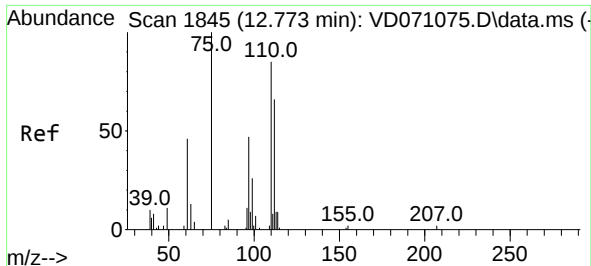
Tgt Ion:152 Resp: 16267
Ion Ratio Lower Upper
152 100
115 62.4 29.8 89.3
150 151.2 0.0 349.2



#74
N-ethyl acetate
Concen: 6.061 ug/l
RT: 12.273 min Scan# 1760
Delta R.T. -0.006 min
Lab File: VD071133.D
Acq: 03 Dec 2021 14:03

Tgt Ion: 43 Resp: 131
Ion Ratio Lower Upper
43 100
70 0.0 36.6 55.0#
55 209.9 22.5 33.7#
61 42.0 20.5 30.7#

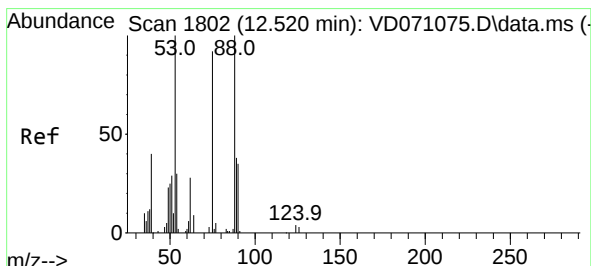
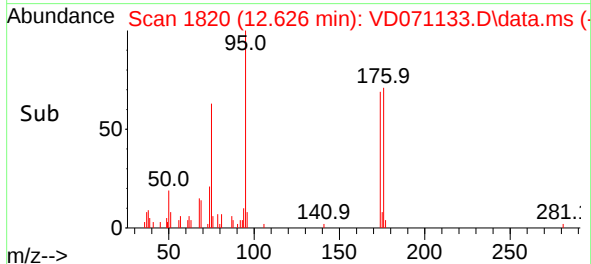
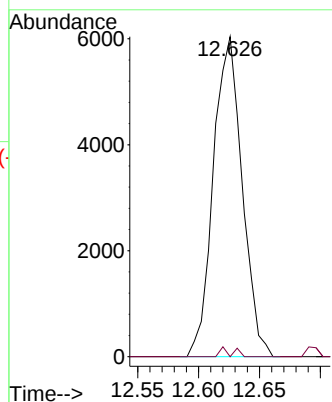
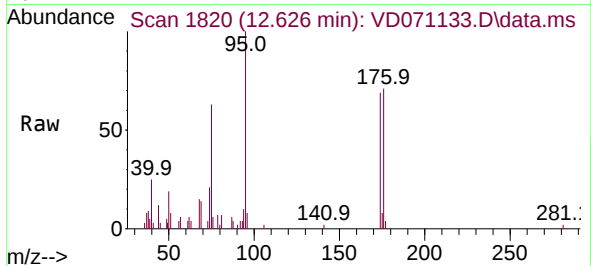




#76
1,2,3-Trichloropropane
Concen: 64.174 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD071133.D
Acq: 03 Dec 2021 14:03

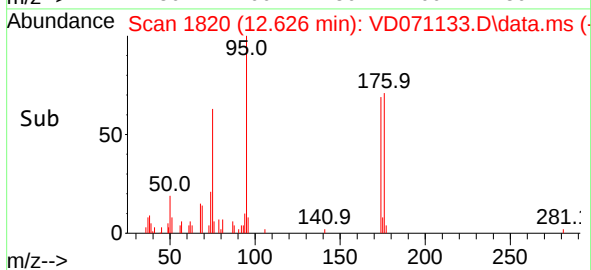
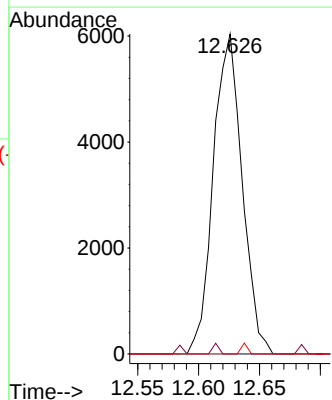
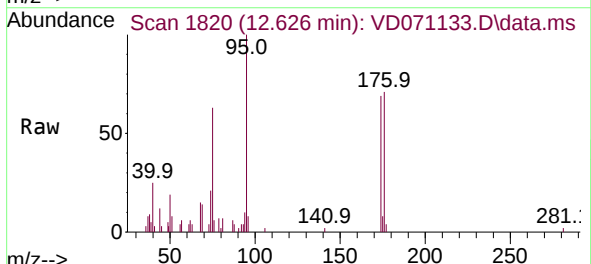
Instrument :
MSVOA_D
ClientSampleId :
FDR-20211202-WC-S

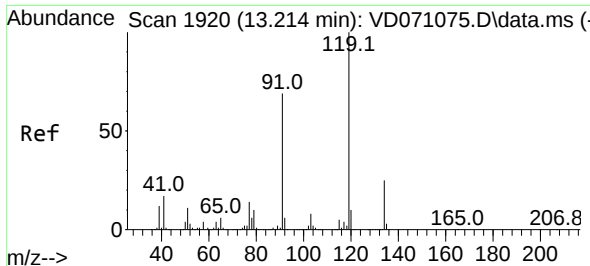
Tgt Ion: 75 Resp: 9946
Ion Ratio Lower Upper
75 100
77 1.2 158.4 475.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 138.540 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.106 min
Lab File: VD071133.D
Acq: 03 Dec 2021 14:03

Tgt Ion: 75 Resp: 9946
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 0.7 34.5 51.7#

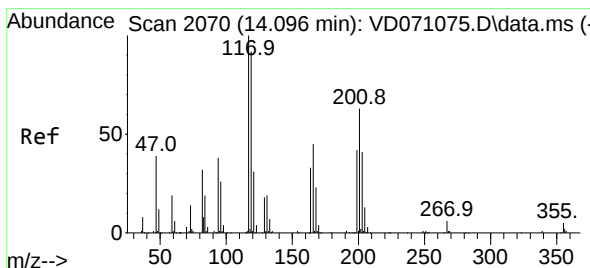
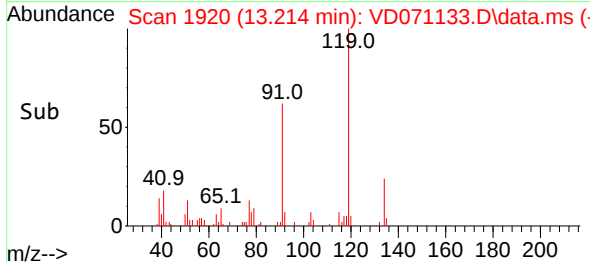
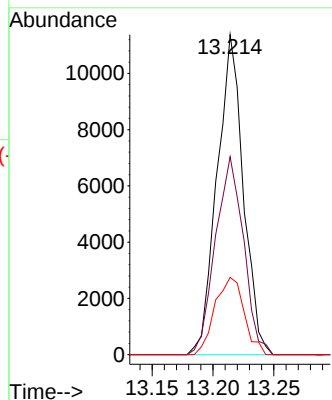
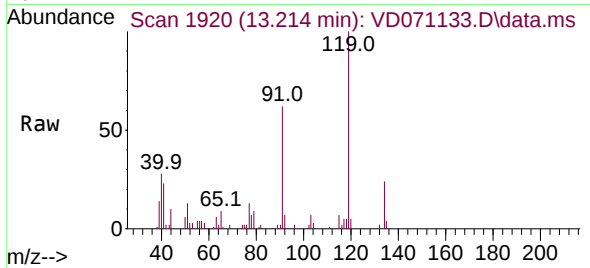




#83
 tert-Butylbenzene
 Concen: 20.473 ug/l
 RT: 13.214 min Scan# 1920
 Delta R.T. 0.000 min
 Lab File: VD071133.D
 Acq: 03 Dec 2021 14:03

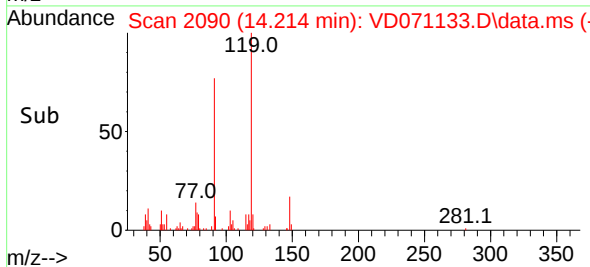
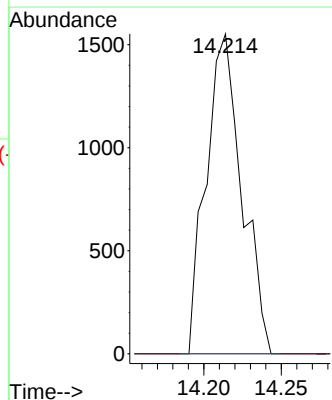
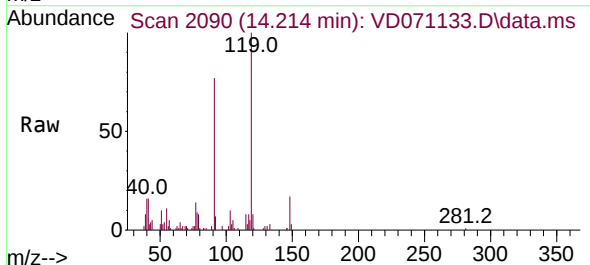
Instrument :
 MSVOA_D
 ClientSampleId :
 FDR-20211202-WC-S

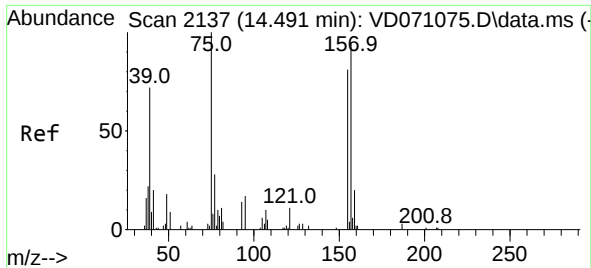
Tgt Ion:	119	Resp:	17077
Ion Ratio	Lower	Upper	
119	100		
91	66.2	32.5	97.5
134	26.8	13.2	39.6



#90
 Hexachloroethane
 Concen: 12.626 ug/l
 RT: 14.214 min Scan# 2090
 Delta R.T. 0.118 min
 Lab File: VD071133.D
 Acq: 03 Dec 2021 14:03

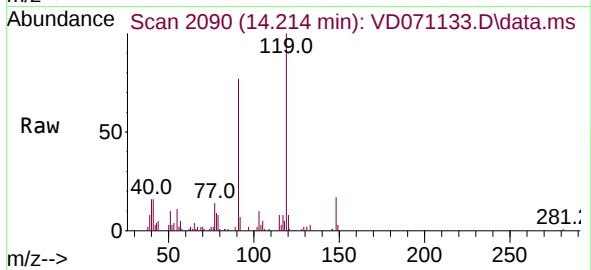
Tgt Ion:	117	Resp:	2494
Ion Ratio	Lower	Upper	
117	100		
201	0.0	36.0	108.1#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 8.706 ug/l
 RT: 14.214 min Scan# 2090
 Delta R.T. -0.277 min
 Lab File: VD071133.D
 Acq: 03 Dec 2021 14:03

Instrument :
 MSVOA_D
 ClientSampleId :
 FDR-20211202-WC-S



Tgt Ion:	75	Resp:	275
Ion	Ratio	Lower	Upper
75	100		
155	0.0	40.0	120.0#
157	0.0	49.8	149.3#

