

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD120721\
 Data File : VD071182.D
 Acq On : 07 Dec 2021 14:40
 Operator : VA/SY
 Sample : M4959-04
 Misc : 5.07G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 08 02:49:42 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)

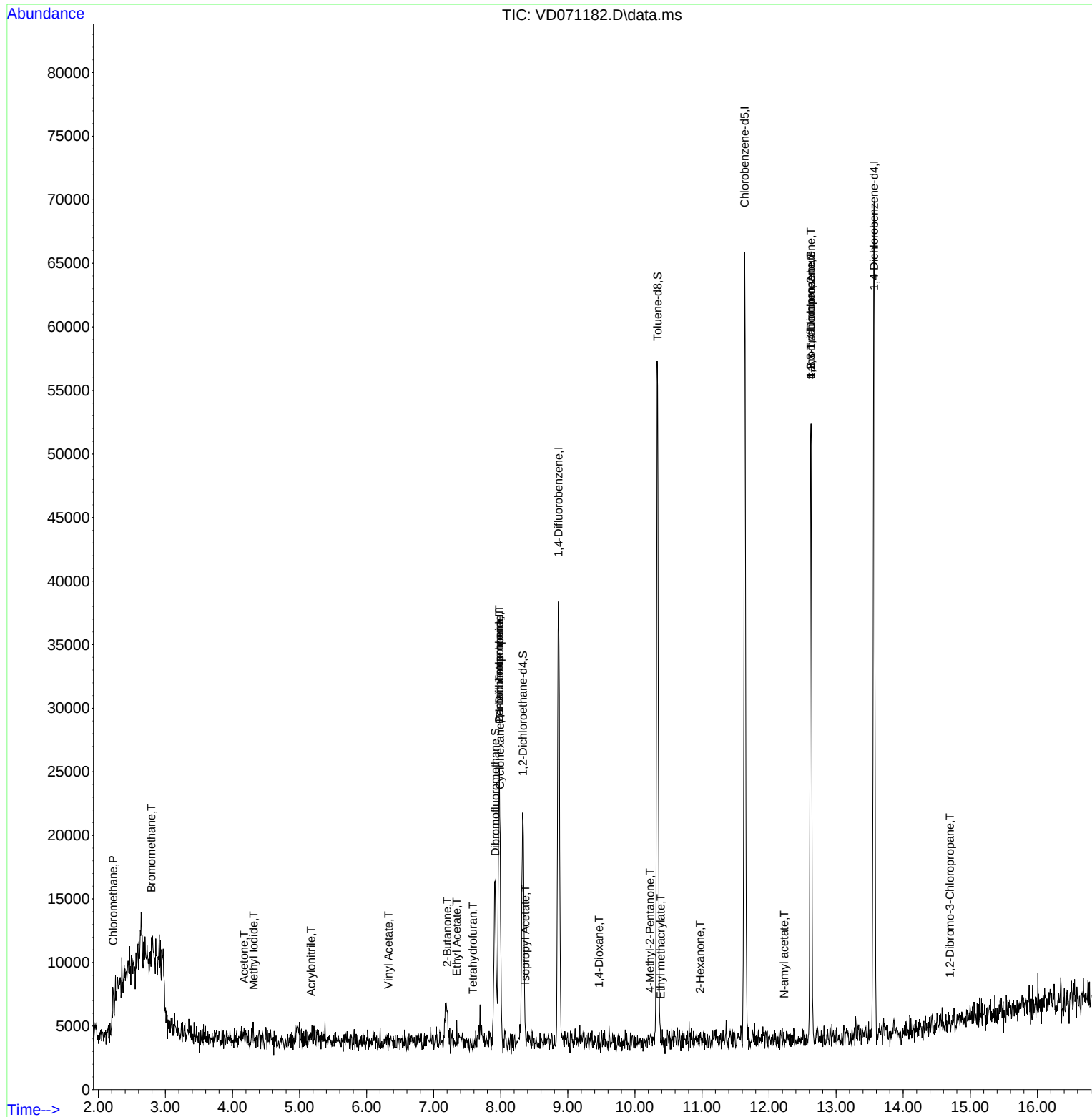
Internal Standards						
1) Pentafluorobenzene	7.979	168	15393	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	28461	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.637	117	33361	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	15867	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	13994	77.48	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 154.96%			
35) Dibromofluoromethane	7.920	113	7982	44.04	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 88.08%			
50) Toluene-d8	10.337	98	33849	49.08	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 98.16%			
62) 4-Bromofluorobenzene	12.625	95	14919	62.40	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 124.80%			
Target Compounds					Qvalue	
3) Chloromethane	2.220	50	350	2.02	ug/l #	42
5) Bromomethane	2.791	94	997	7.14	ug/l #	74
10) Methyl Iodide	4.314	142	276	5.95	ug/l #	70
11) Tert butyl alcohol	5.185	59	129	Below Cal	#	71
15) Acrylonitrile	5.173	53	70	2.02	ug/l #	19
16) Acetone	4.173	43	948	48.13	ug/l #	40
20) Methylene Chloride	4.979	84	635	Below Cal	#	41
23) Vinyl Acetate	6.326	43	70	27.43	ug/l #	72
25) 2-Butanone	7.202	43	54	29.22	ug/l #	45
29) Tetrahydrofuran	7.585	42	82	2.86	ug/l #	34
31) Cyclohexane	7.990	56	367	1.19	ug/l #	1
36) 1,1-Dichloropropene	7.979	75	1428	5.37	ug/l #	45
37) Ethyl Acetate	7.343	43	164	1.43	ug/l #	66
38) Carbon Tetrachloride	7.979	117	1508	5.75	ug/l #	12
41) Methacrylonitrile	7.532	41	60	Below Cal	#	12
43) Isopropyl Acetate	8.367	43	60	5.44	ug/l #	47
49) 1,4-Dioxane	9.467	88	71	74.61	ug/l #	23
51) 4-Methyl-2-Pentanone	10.226	43	66	31.10	ug/l #	34
56) Ethyl methacrylate	10.384	69	65	6.28	ug/l #	3
59) 2-Hexanone	10.973	43	59	35.09	ug/l #	22
74) N-amyl acetate	12.225	43	59	5.87	ug/l #	40
76) 1,2,3-Trichloropropane	12.625	75	9258	61.24	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.625	75	9258	132.47	ug/l #	18
92) 1,2-Dibromo-3-Chloropr...	14.696	75	60	1.95	ug/l #	4

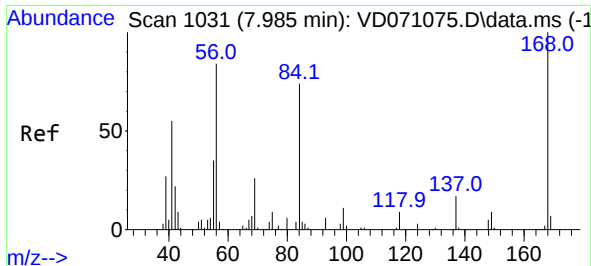
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

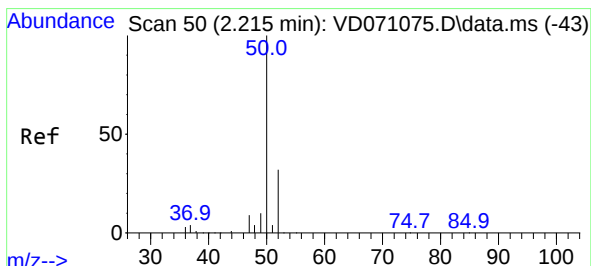
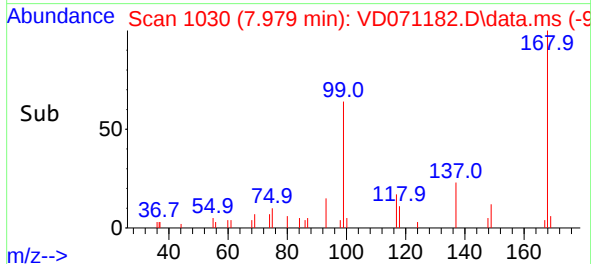
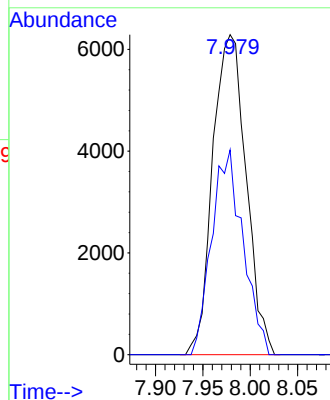
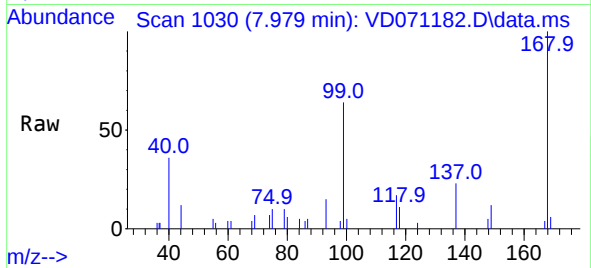




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.979 min Scan# 10
Delta R.T. -0.006 min
Lab File: VD071182.D
Acq: 07 Dec 2021 14:40

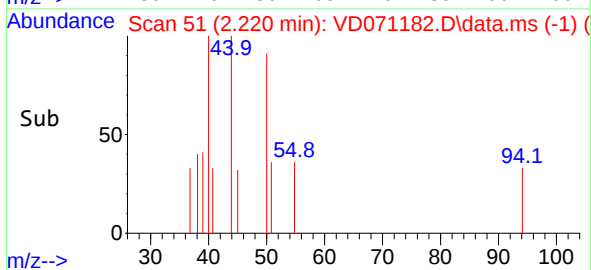
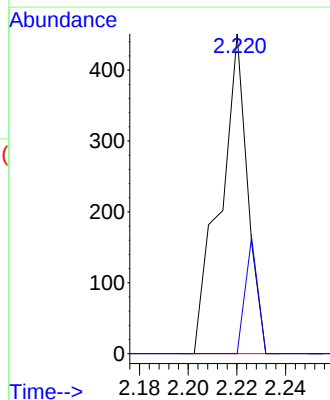
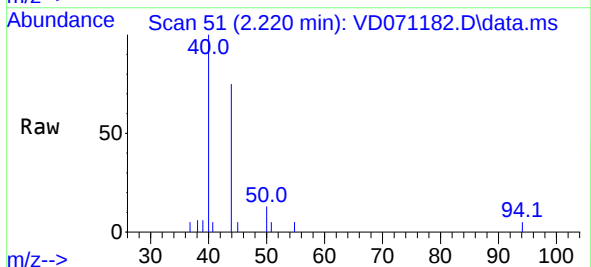
Instrument :
MSVOA_D
ClientSampleId :

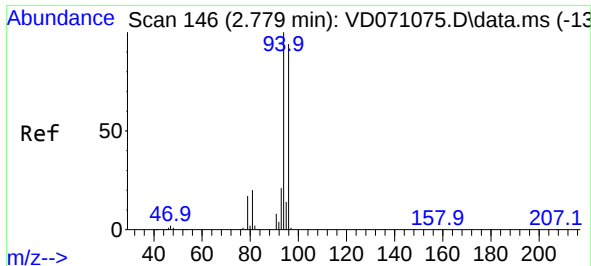
Tgt Ion:168 Resp: 15393
Ion Ratio Lower Upper
168 100
99 64.0 46.6 69.8



#3
Chloromethane
Concen: 2.02 ug/l
RT: 2.220 min Scan# 51
Delta R.T. 0.005 min
Lab File: VD071182.D
Acq: 07 Dec 2021 14:40

Tgt Ion: 50 Resp: 350
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.8#

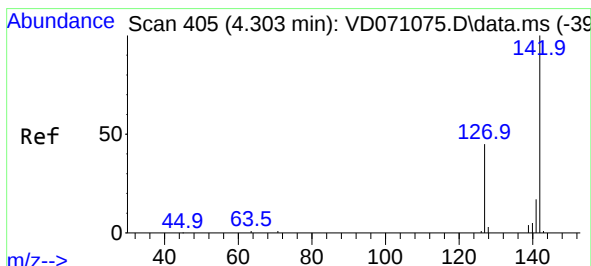
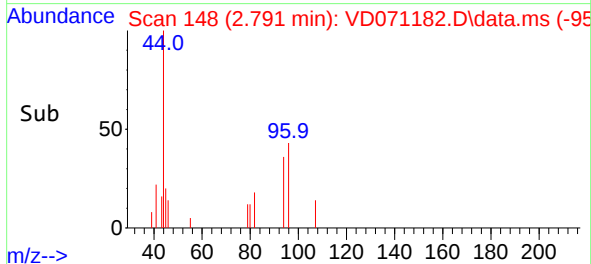
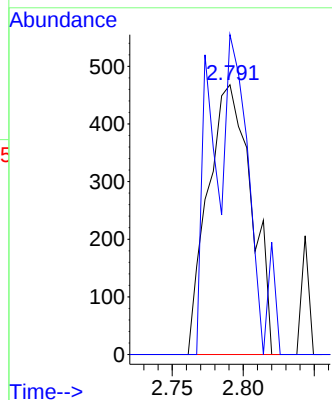
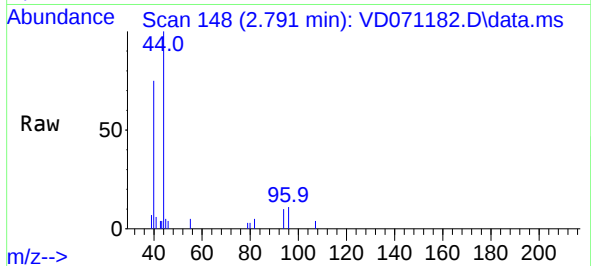




#5
Bromomethane
Concen: 7.14 ug/l
RT: 2.791 min Scan# 14
Delta R.T. 0.012 min
Lab File: VD071182.D
Acq: 07 Dec 2021 14:40

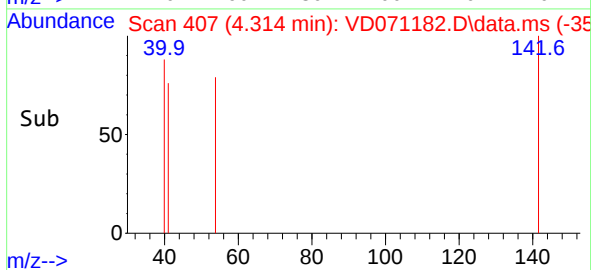
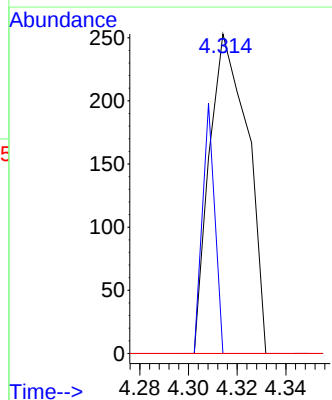
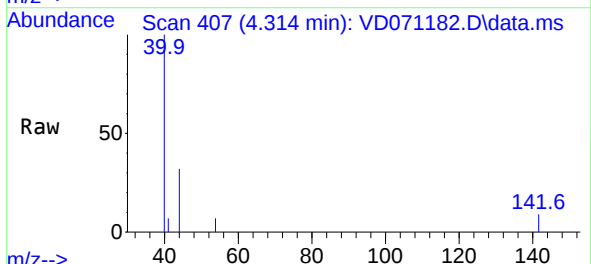
Instrument :
MSVOA_D
ClientSampleId :

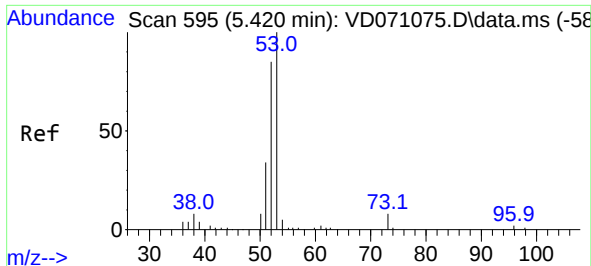
Tgt Ion: 94 Resp: 997
Ion Ratio Lower Upper
94 100
96 118.6 74.8 112.2#



#10
Methyl Iodide
Concen: 5.95 ug/l
RT: 4.314 min Scan# 407
Delta R.T. 0.011 min
Lab File: VD071182.D
Acq: 07 Dec 2021 14:40

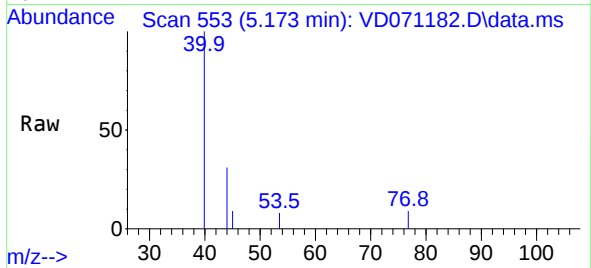
Tgt Ion: 142 Resp: 276
Ion Ratio Lower Upper
142 100
127 25.4 35.0 52.4#
141 0.0 12.0 18.0#



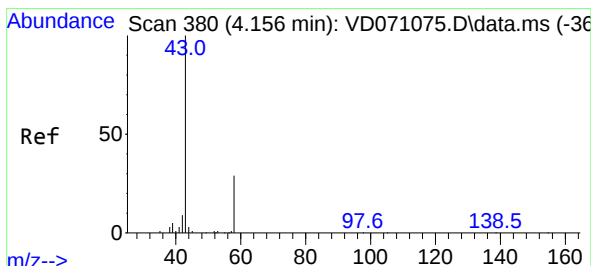
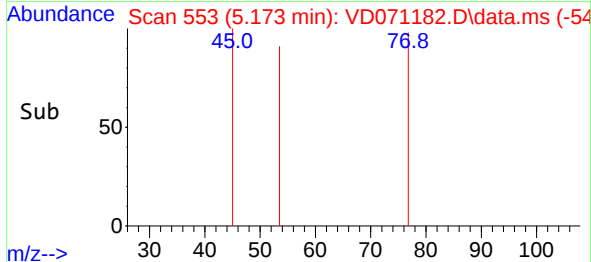
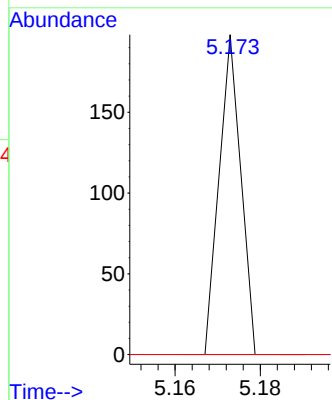


#15
Acrylonitrile
Concen: 2.02 ug/l
RT: 5.173 min Scan# 51
Delta R.T. -0.247 min
Lab File: VD071182.D
Acq: 07 Dec 2021 14:40

Instrument :
MSVOA_D
ClientSampleId :

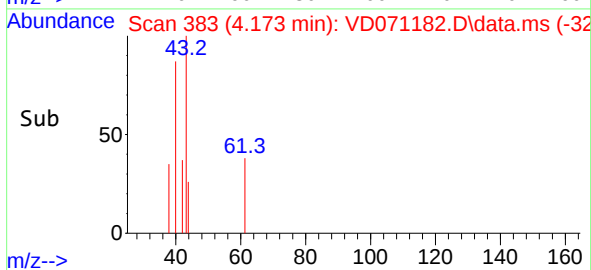
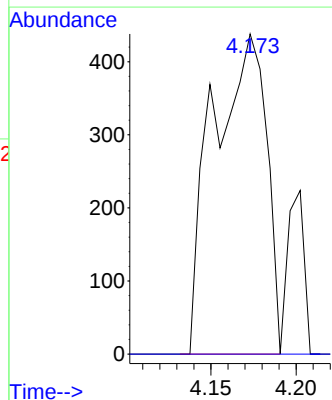
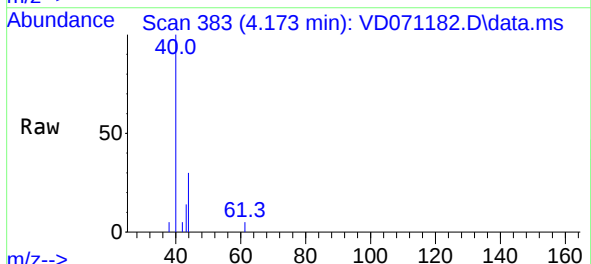


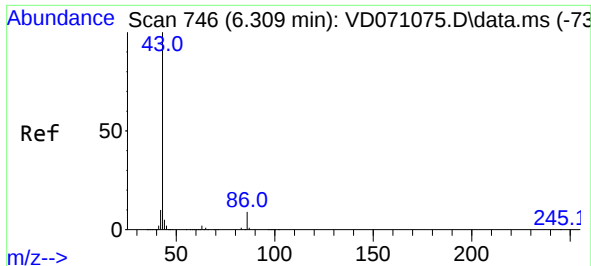
Tgt Ion: 53 Resp: 70
Ion Ratio Lower Upper
53 100
52 0.0 63.8 95.8#
51 0.0 28.5 42.7#



#16
Acetone
Concen: 48.13 ug/l
RT: 4.173 min Scan# 383
Delta R.T. 0.017 min
Lab File: VD071182.D
Acq: 07 Dec 2021 14:40

Tgt Ion: 43 Resp: 948
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#

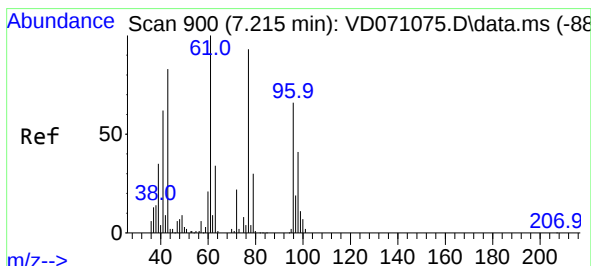
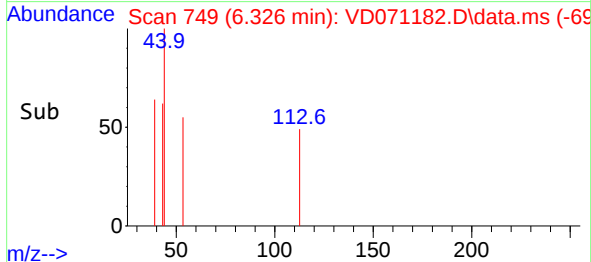
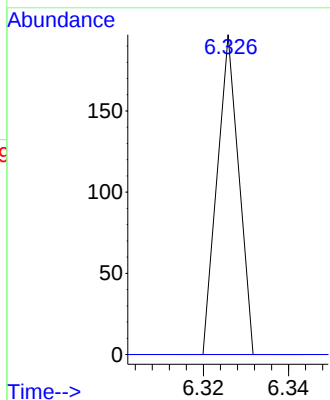
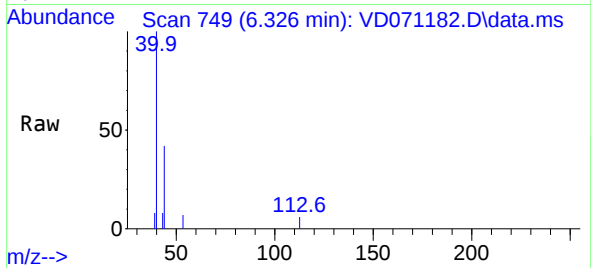




#23
 Vinyl Acetate
 Concen: 27.43 ug/l
 RT: 6.326 min Scan# 746
 Delta R.T. 0.017 min
 Lab File: VD071182.D
 Acq: 07 Dec 2021 14:40

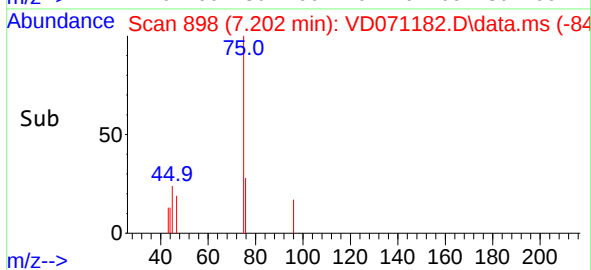
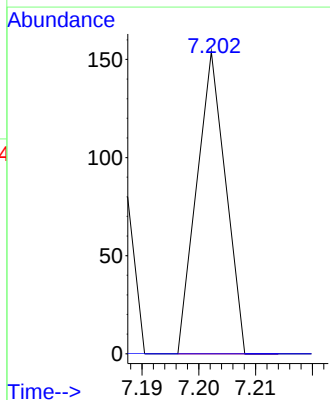
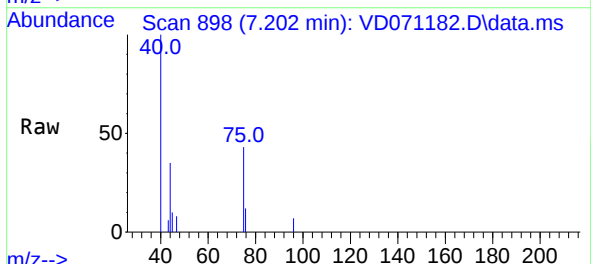
Instrument :
 MSVOA_D
 ClientSampleId :

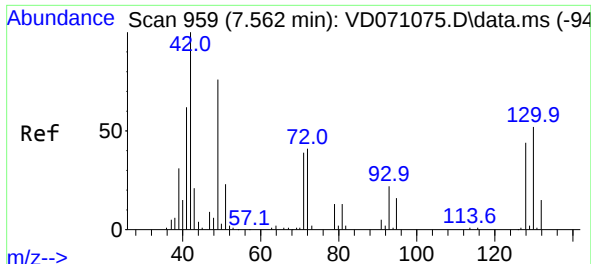
Tgt Ion: 43 Resp: 70
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.2 12.4#



#25
 2-Butanone
 Concen: 29.22 ug/l
 RT: 7.202 min Scan# 898
 Delta R.T. -0.013 min
 Lab File: VD071182.D
 Acq: 07 Dec 2021 14:40

Tgt Ion: 43 Resp: 54
 Ion Ratio Lower Upper
 43 100
 72 0.0 23.8 35.6#





#29

Tetrahydrofuran

Concen: 2.86 ug/l

RT: 7.585 min Scan# 90

Delta R.T. 0.023 min

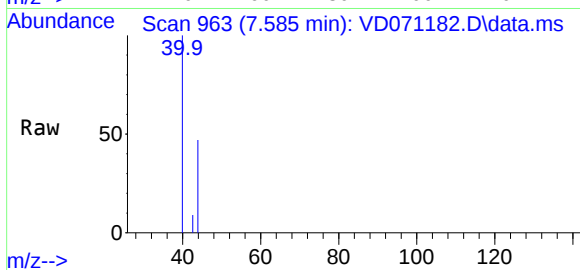
Lab File: VD071182.D

Acq: 07 Dec 2021 14:40

Instrument :

MSVOA_D

ClientSampleId :



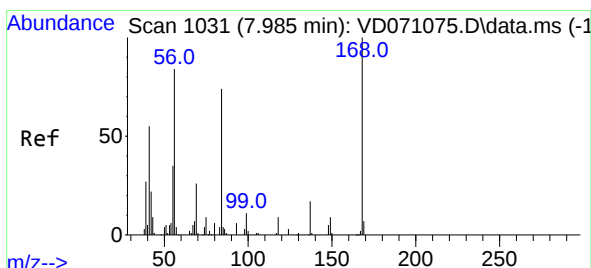
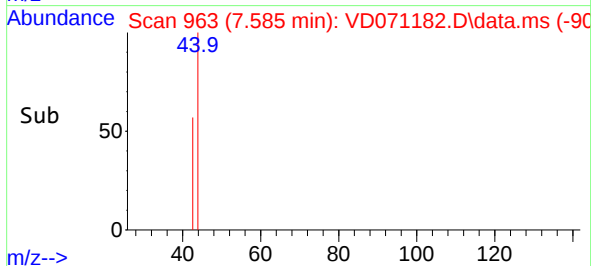
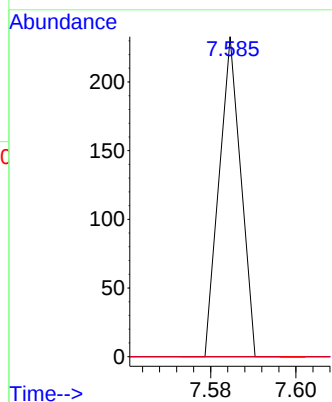
Tgt Ion: 42 Resp: 82

Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

71 0.0 32.7 49.1#



#31

Cyclohexane

Concen: 1.19 ug/l

RT: 7.990 min Scan# 1032

Delta R.T. 0.005 min

Lab File: VD071182.D

Acq: 07 Dec 2021 14:40

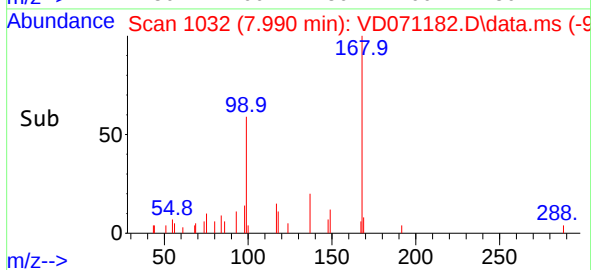
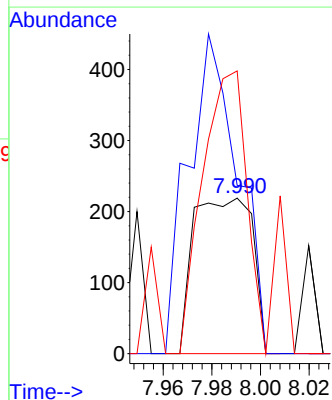
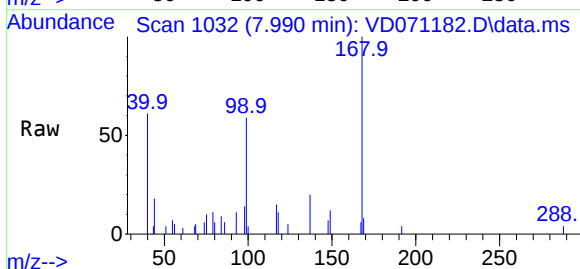
Tgt Ion: 56 Resp: 367

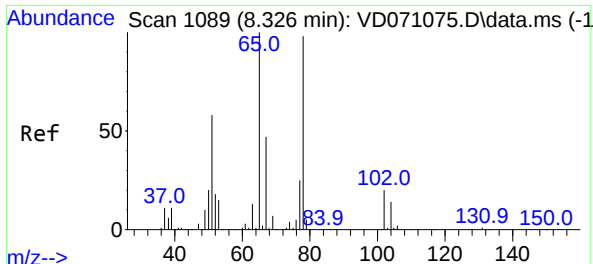
Ion Ratio Lower Upper

56 100

69 108.2 25.9 38.9#

84 181.7 64.3 96.5#





#33

1,2-Dichloroethane-d4

Concen: 77.48 ug/l

RT: 8.332 min Scan# 1089

Delta R.T. 0.006 min

Lab File: VD071182.D

Acq: 07 Dec 2021 14:40

Instrument :

MSVOA_D

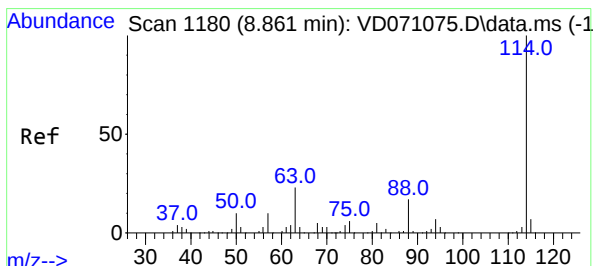
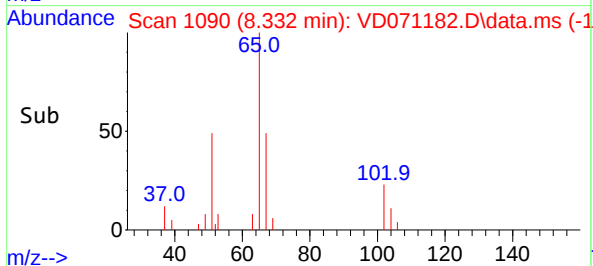
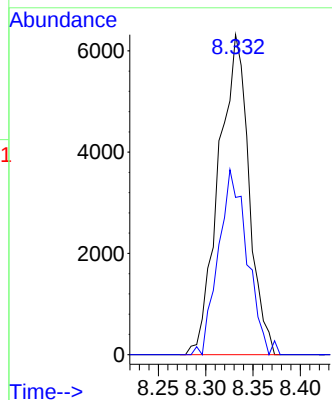
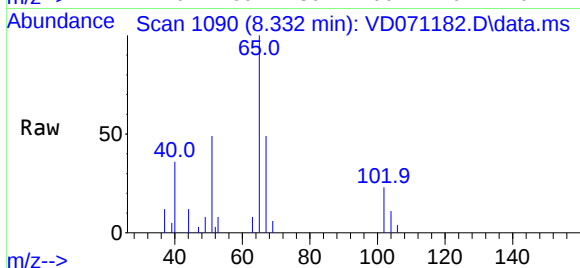
ClientSampleId :

Tgt Ion: 65 Resp: 13994

Ion Ratio Lower Upper

65 100

67 55.4 0.0 112.2



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. -0.000 min

Lab File: VD071182.D

Acq: 07 Dec 2021 14:40

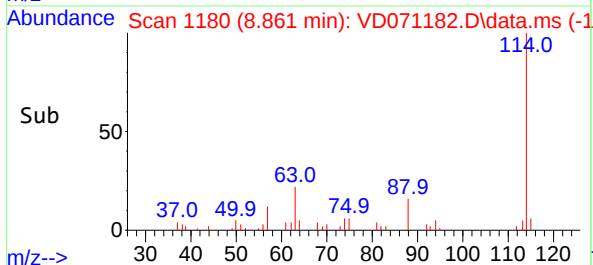
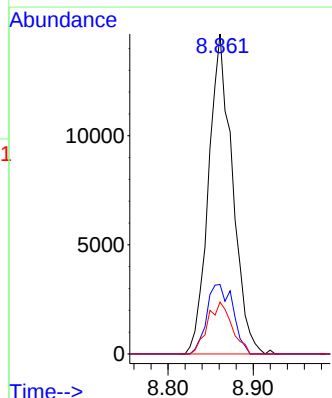
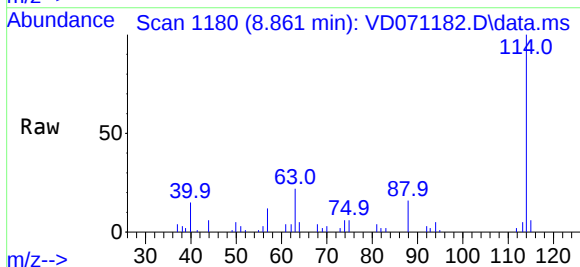
Tgt Ion: 114 Resp: 28461

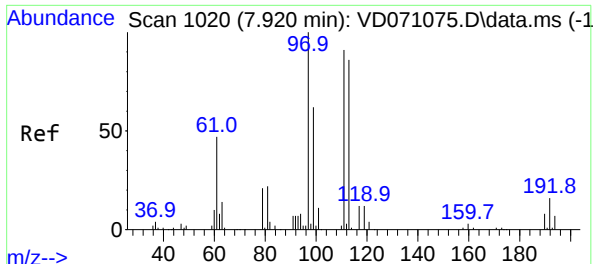
Ion Ratio Lower Upper

114 100

63 21.7 0.0 41.8

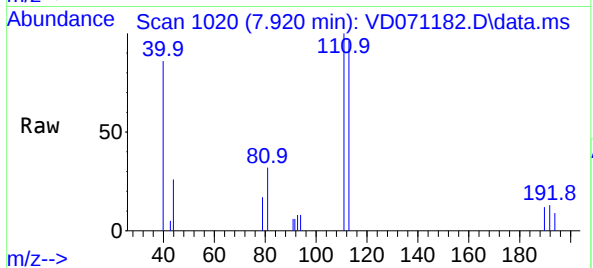
88 16.2 0.0 32.8



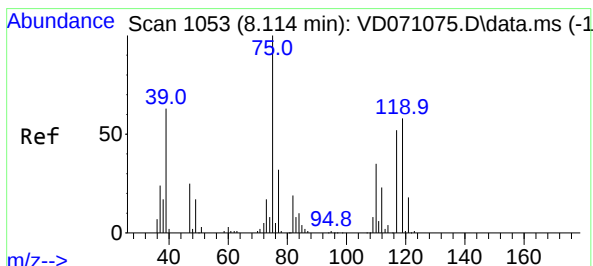
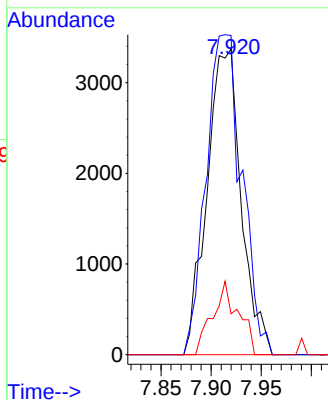
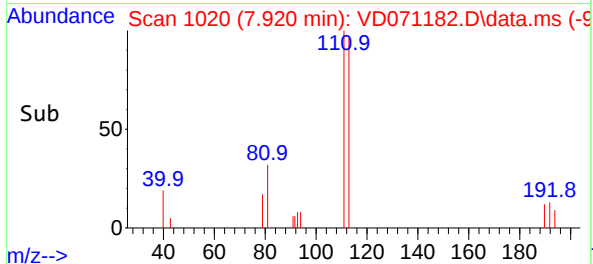


#35
Dibromofluoromethane
Concen: 44.04 ug/l
RT: 7.920 min Scan# 1020
Delta R.T. -0.000 min
Lab File: VD071182.D
Acq: 07 Dec 2021 14:40

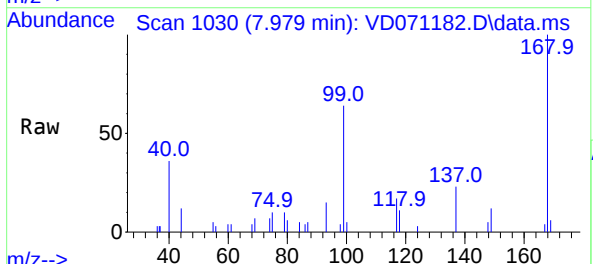
Instrument :
MSVOA_D
ClientSampleId :



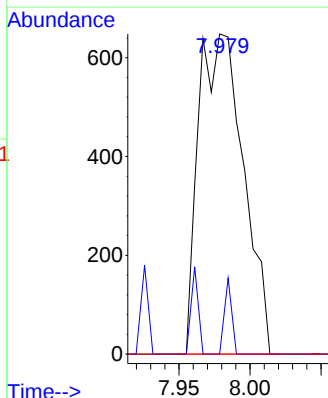
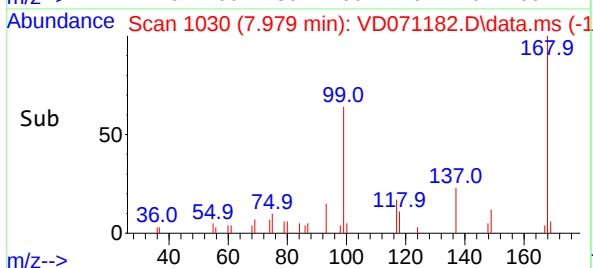
Tgt Ion:113 Resp: 7982
Ion Ratio Lower Upper
113 100
111 109.7 82.0 123.0
192 18.2 15.2 22.8

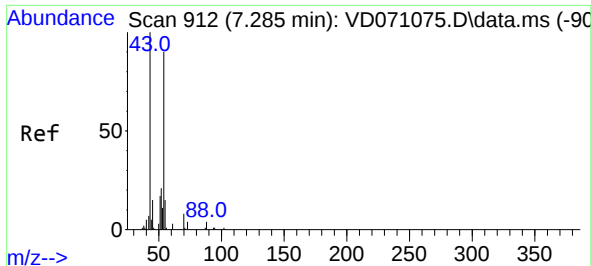


#36
1,1-Dichloropropene
Concen: 5.37 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.135 min
Lab File: VD071182.D
Acq: 07 Dec 2021 14:40



Tgt Ion: 75 Resp: 1428
Ion Ratio Lower Upper
75 100
110 3.8 17.8 53.4#
77 0.0 24.8 37.2#

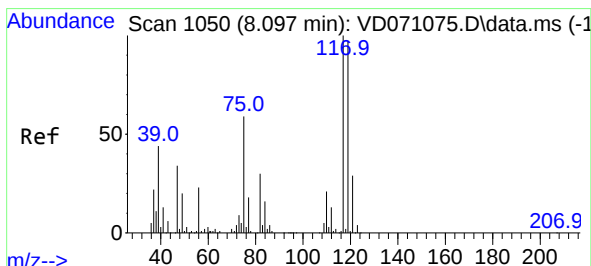
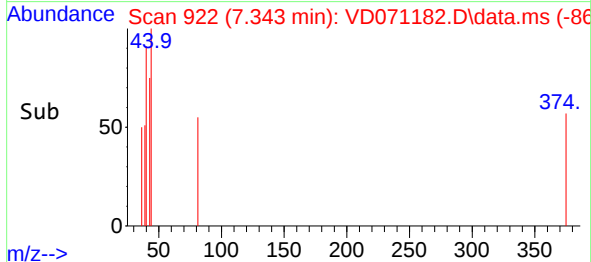
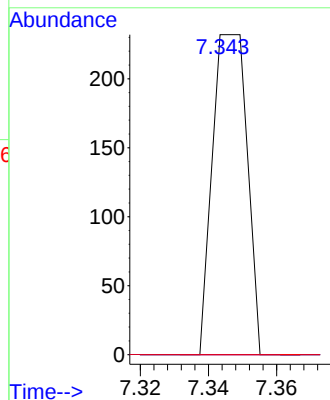
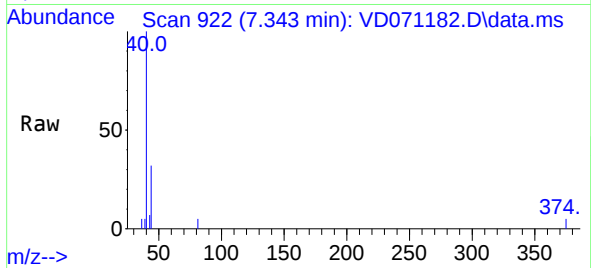




#37
Ethyl Acetate
Concen: 1.43 ug/l
RT: 7.343 min Scan# 91
Delta R.T. 0.058 min
Lab File: VD071182.D
Acq: 07 Dec 2021 14:40

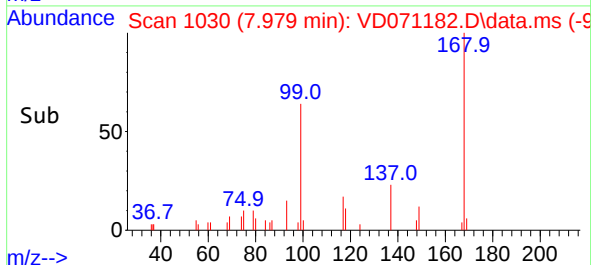
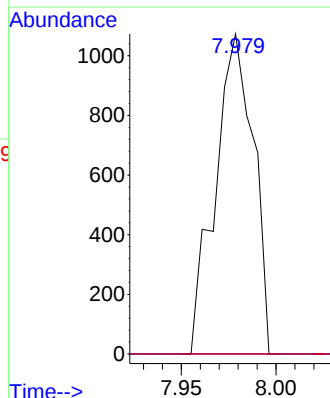
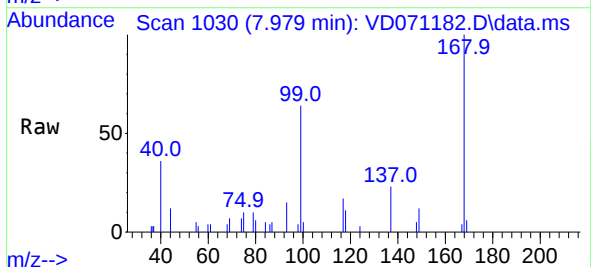
Instrument :
MSVOA_D
ClientSampleId :

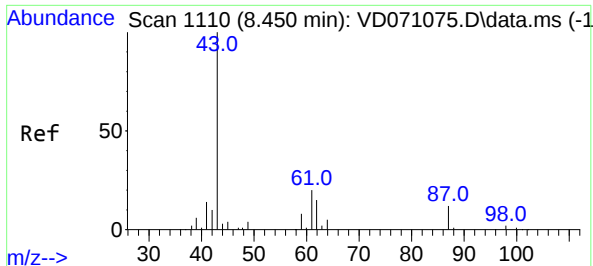
Tgt Ion: 43	Resp:	164
Ion	Ratio	Lower Upper
43	100	
61	0.0	13.0 19.6#
70	0.0	8.7 13.1#



#38
Carbon Tetrachloride
Concen: 5.75 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.118 min
Lab File: VD071182.D
Acq: 07 Dec 2021 14:40

Tgt Ion: 117	Resp:	1508
Ion	Ratio	Lower Upper
117	100	
119	0.0	75.8 113.6#
121	0.0	23.6 35.4#





#43

Isopropyl Acetate

Concen: 5.44 ug/l

RT: 8.367 min Scan# 1110

Delta R.T. -0.083 min

Lab File: VD071182.D

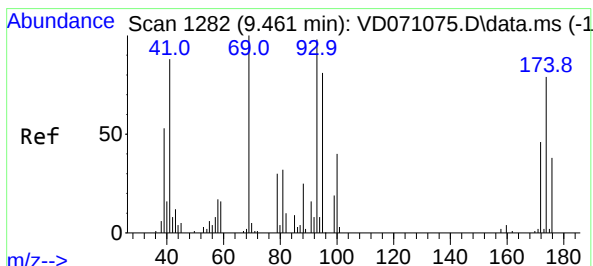
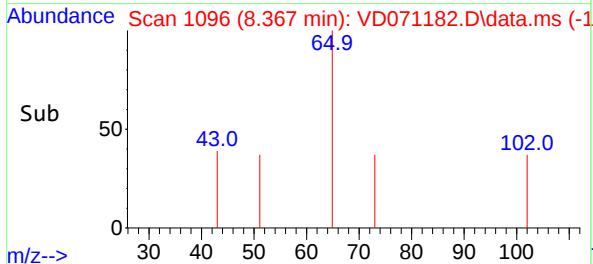
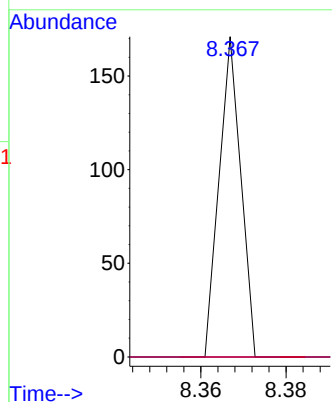
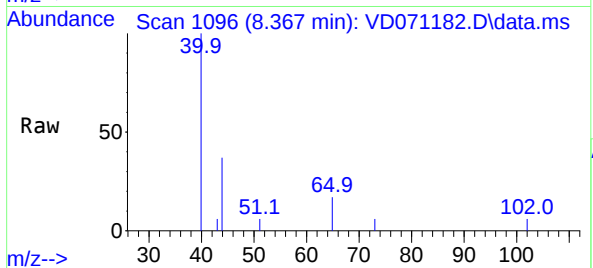
Acq: 07 Dec 2021 14:40

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion: 43	Resp: 60
Ion Ratio	Lower Upper
43 100	
61 0.0	28.2 42.4#
87 0.0	10.7 16.1#



#49

1,4-Dioxane

Concen: 74.61 ug/l

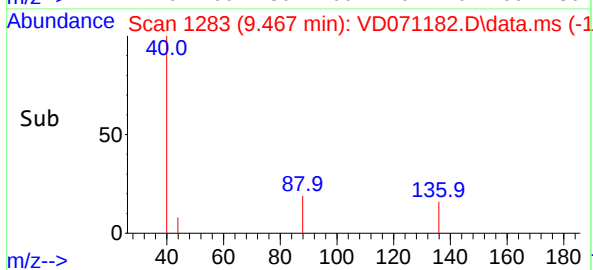
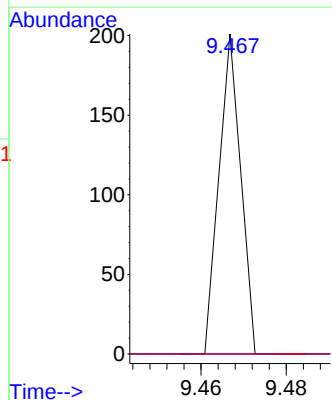
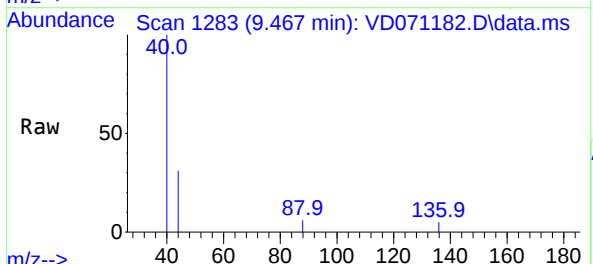
RT: 9.467 min Scan# 1283

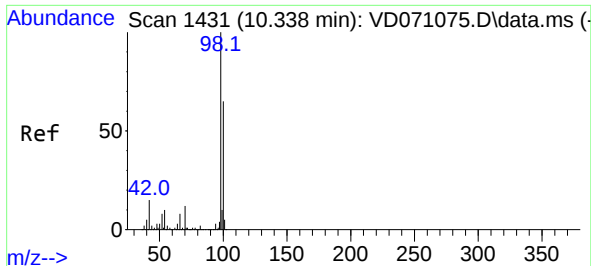
Delta R.T. 0.006 min

Lab File: VD071182.D

Acq: 07 Dec 2021 14:40

Tgt Ion: 88	Resp: 71
Ion Ratio	Lower Upper
88 100	
43 0.0	28.9 43.3#
58 0.0	56.3 84.5#

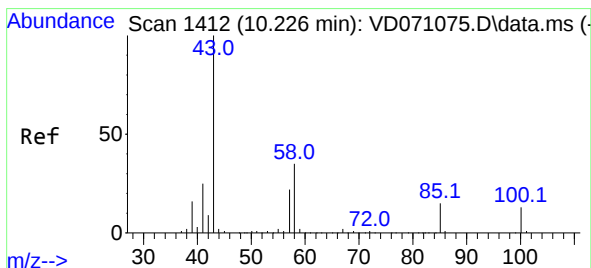
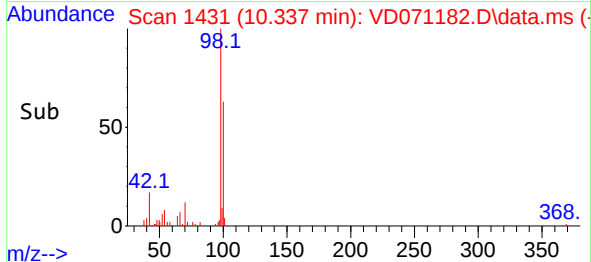
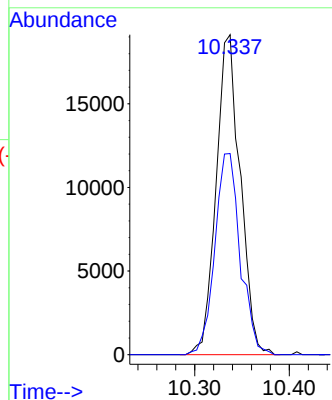
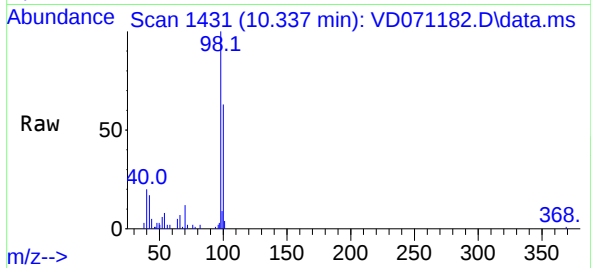




#50
Toluene-d8
Concen: 49.08 ug/l
RT: 10.337 min Scan# 1431
Delta R.T. -0.001 min
Lab File: VD071182.D
Acq: 07 Dec 2021 14:40

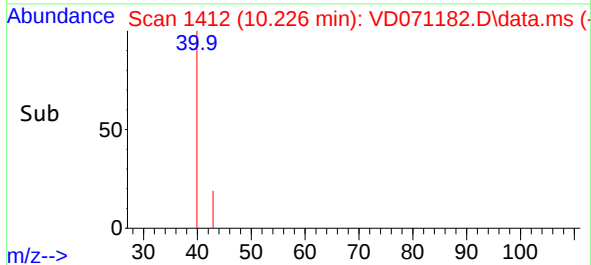
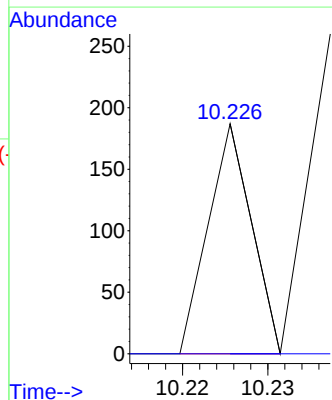
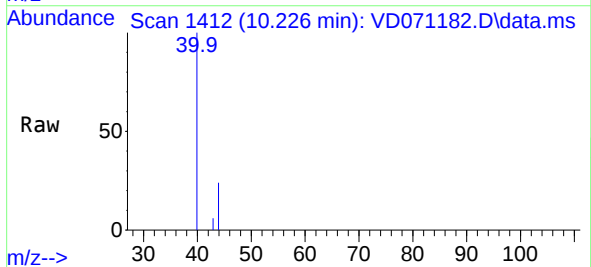
Instrument :
MSVOA_D
ClientSampleId :

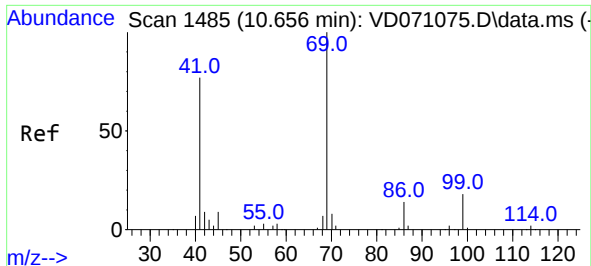
Tgt Ion: 98 Resp: 33849
Ion Ratio Lower Upper
98 100
100 66.3 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 31.10 ug/l
RT: 10.226 min Scan# 1412
Delta R.T. -0.000 min
Lab File: VD071182.D
Acq: 07 Dec 2021 14:40

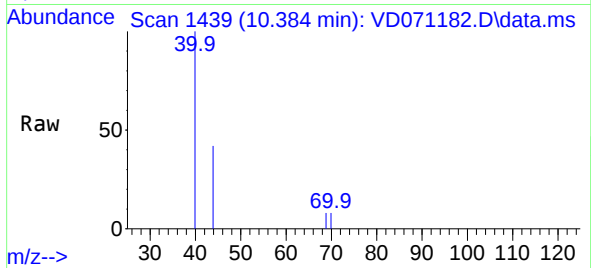
Tgt Ion: 43 Resp: 66
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#





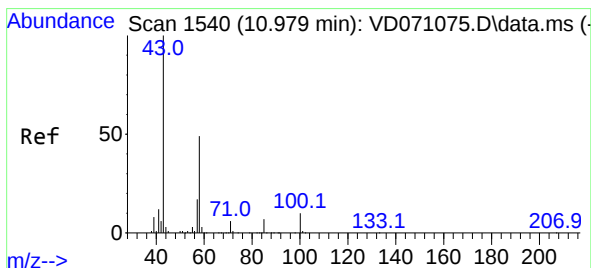
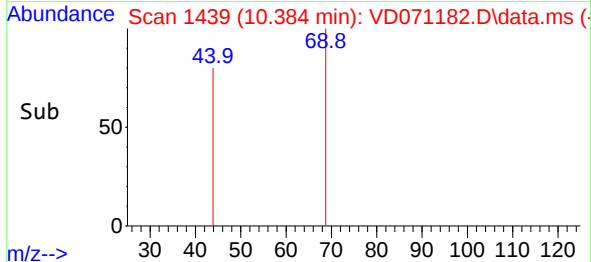
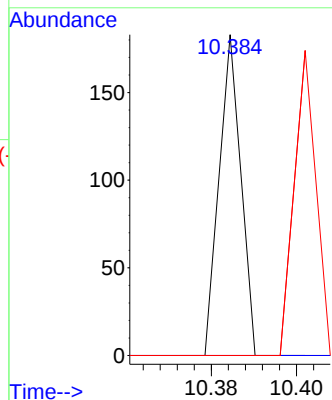
#56
Ethyl methacrylate
Concen: 6.28 ug/l
RT: 10.384 min Scan# 1485
Delta R.T. -0.272 min
Lab File: VD071182.D
Acq: 07 Dec 2021 14:40

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion: 69 Resp: 65

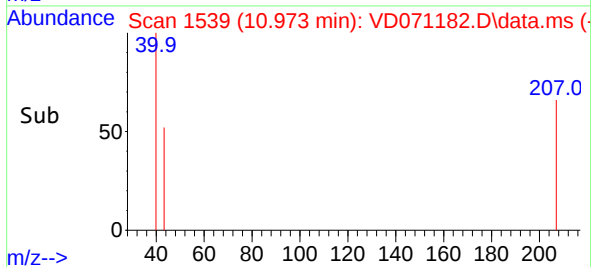
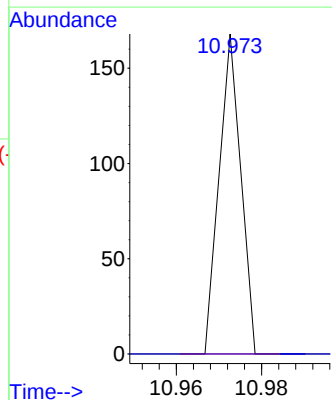
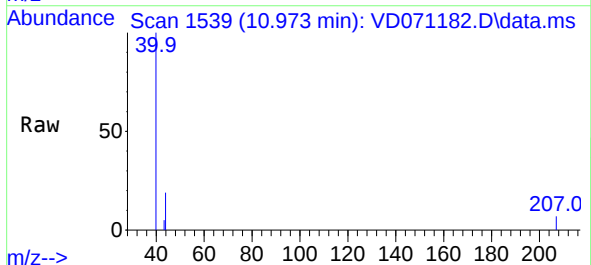
Ion	Ratio	Lower	Upper
69	100		
41	0.0	50.2	75.2#
39	93.8	19.8	29.8#

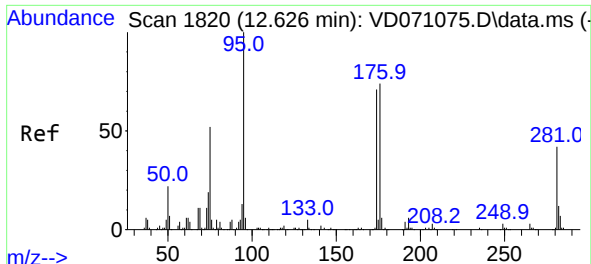


#59
2-Hexanone
Concen: 35.09 ug/l
RT: 10.973 min Scan# 1539
Delta R.T. -0.006 min
Lab File: VD071182.D
Acq: 07 Dec 2021 14:40

Tgt Ion: 43 Resp: 59

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.7	86.1#

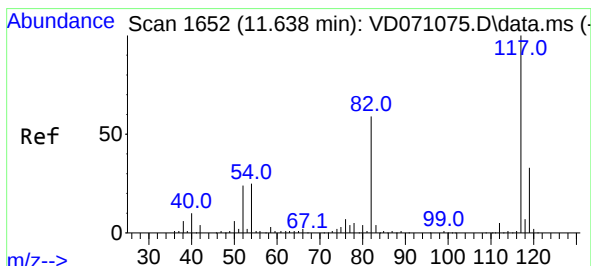
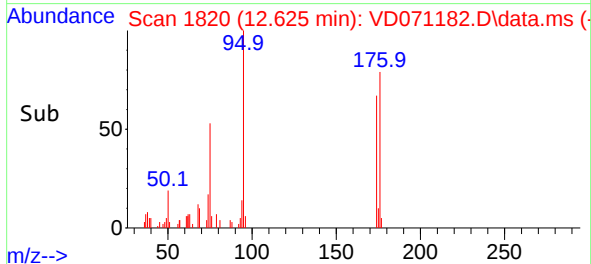
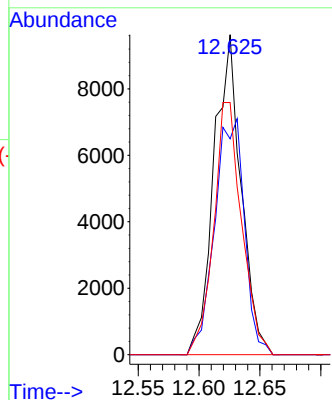
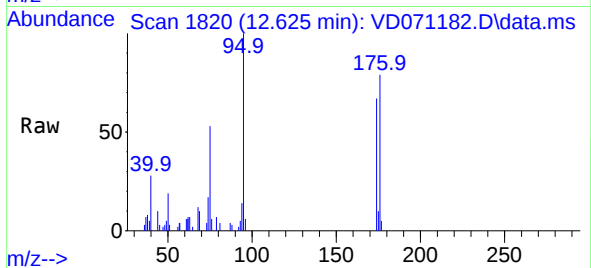




#62
4-Bromofluorobenzene
Concen: 62.40 ug/l
RT: 12.625 min Scan# 11
Delta R.T. -0.001 min
Lab File: VD071182.D
Acq: 07 Dec 2021 14:40

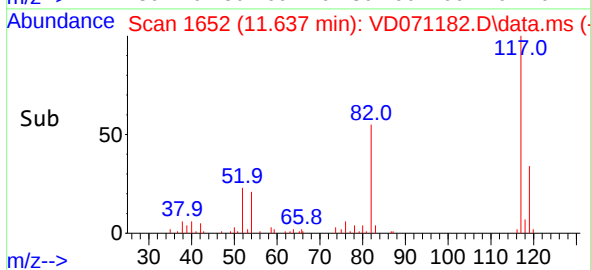
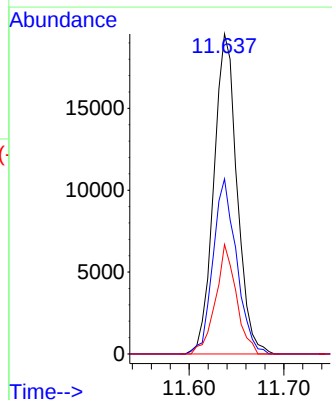
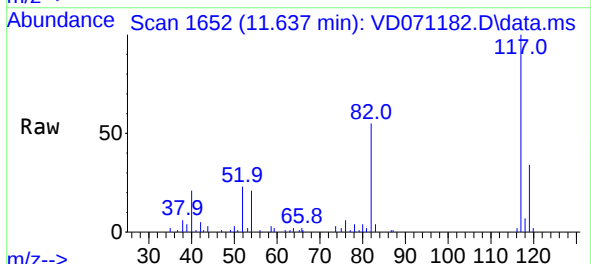
Instrument :
MSVOA_D
ClientSampleId :

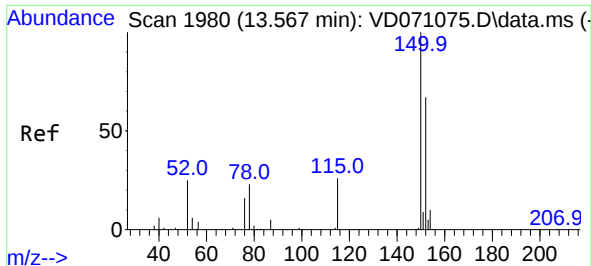
Tgt Ion: 95 Resp: 14919
Ion Ratio Lower Upper
95 100
174 81.0 0.0 159.4
176 81.3 0.0 154.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.637 min Scan# 1652
Delta R.T. -0.001 min
Lab File: VD071182.D
Acq: 07 Dec 2021 14:40

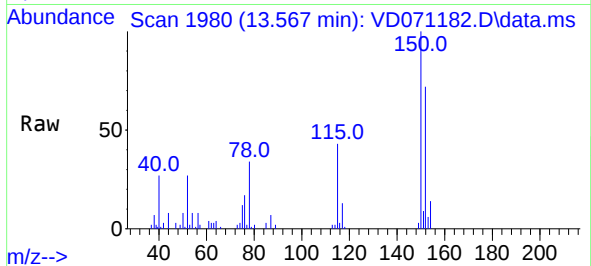
Tgt Ion: 117 Resp: 33361
Ion Ratio Lower Upper
117 100
82 54.7 44.7 67.1
119 34.2 26.2 39.4



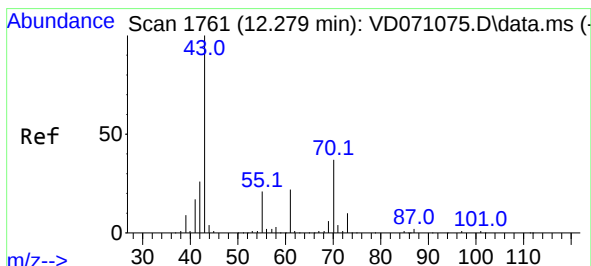
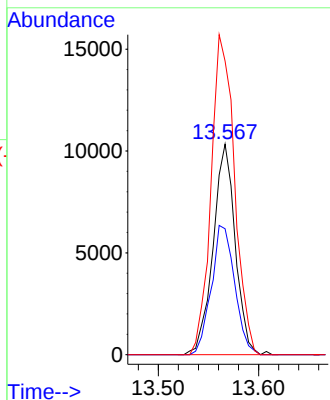
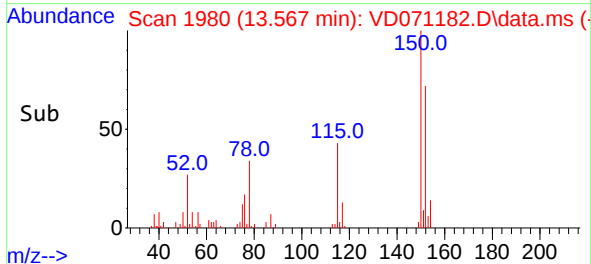


#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. -0.000 min
Lab File: VD071182.D
Acq: 07 Dec 2021 14:40

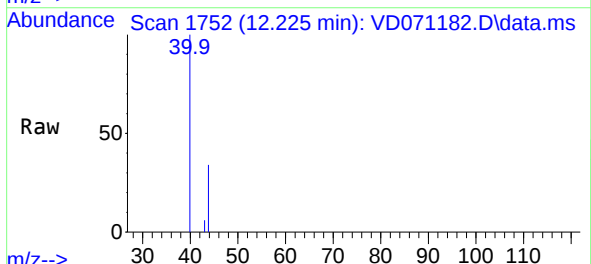
Instrument :
MSVOA_D
ClientSampleId :



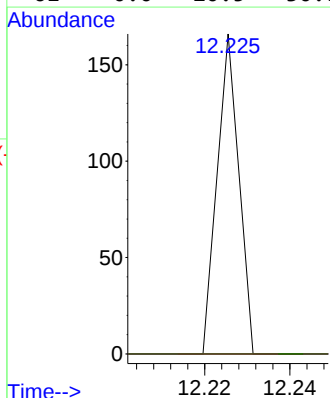
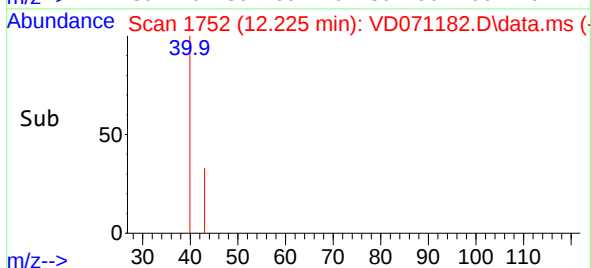
Tgt Ion:152 Resp: 15867
Ion Ratio Lower Upper
152 100
115 64.7 29.8 89.3
150 160.7 0.0 349.2

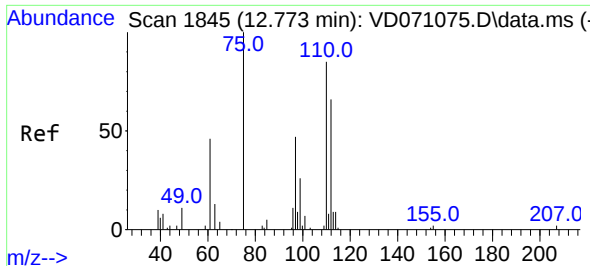


#74
N-ethyl acetate
Concen: 5.87 ug/l
RT: 12.225 min Scan# 1752
Delta R.T. -0.054 min
Lab File: VD071182.D
Acq: 07 Dec 2021 14:40



Tgt Ion: 43 Resp: 59
Ion Ratio Lower Upper
43 100
70 0.0 36.6 55.0#
55 0.0 22.5 33.7#
61 0.0 20.5 30.7#

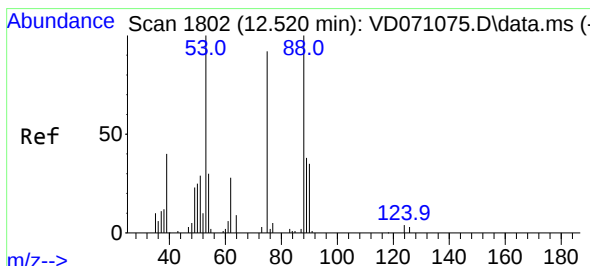
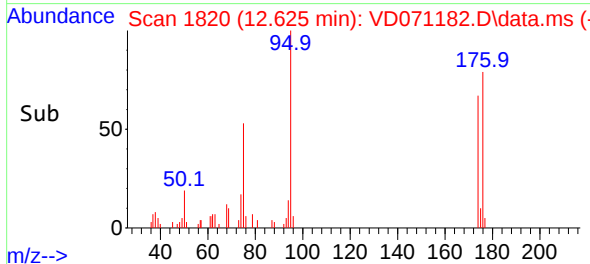
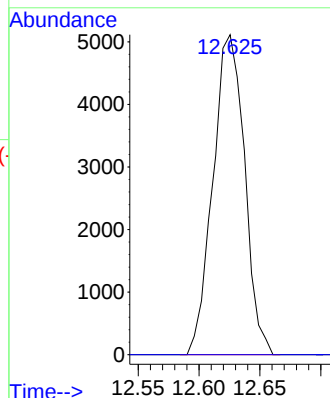
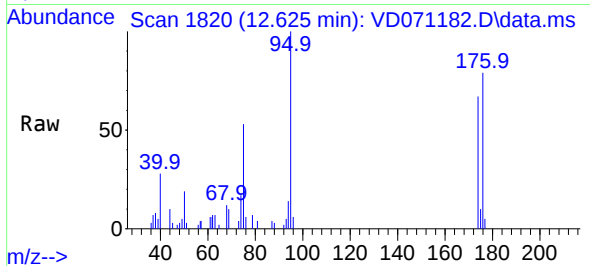




#76
1,2,3-Trichloropropane
Concen: 61.24 ug/l
RT: 12.625 min Scan# 1820
Delta R.T. -0.148 min
Lab File: VD071182.D
Acq: 07 Dec 2021 14:40

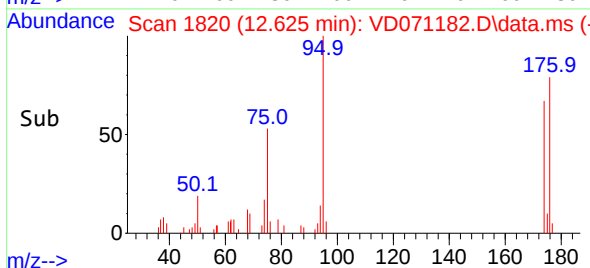
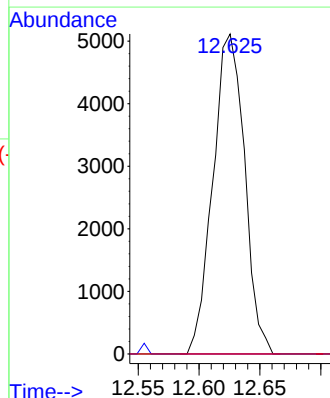
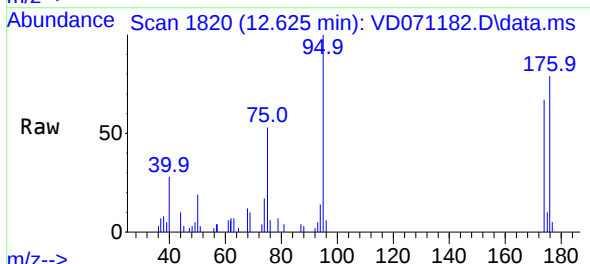
Instrument :
MSVOA_D
ClientSampleId :

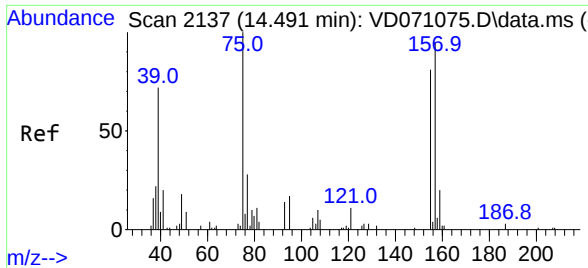
Tgt Ion: 75 Resp: 9258
Ion Ratio Lower Upper
75 100
77 0.0 158.4 475.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 132.47 ug/l
RT: 12.625 min Scan# 1820
Delta R.T. 0.105 min
Lab File: VD071182.D
Acq: 07 Dec 2021 14:40

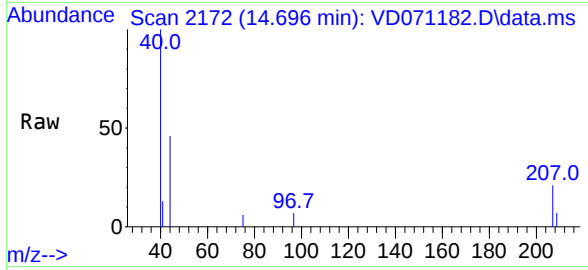
Tgt Ion: 75 Resp: 9258
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 0.0 34.5 51.7#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.95 ug/l
 RT: 14.696 min Scan# 21
 Delta R.T. 0.205 min
 Lab File: VD071182.D
 Acq: 07 Dec 2021 14:40

Instrument :
 MSVOA_D
 ClientSampleId :



Tgt Ion:	75	Resp:	60
Ion	Ratio	Lower	Upper
75	100		
155	0.0	40.0	120.0#
157	0.0	49.8	149.3#

