

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121521\
 Data File : VD071353.D
 Acq On : 15 Dec 2021 20:10
 Operator : VA/SY
 Sample : M5089-13
 Misc : 5.29G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 16 04:32:13 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

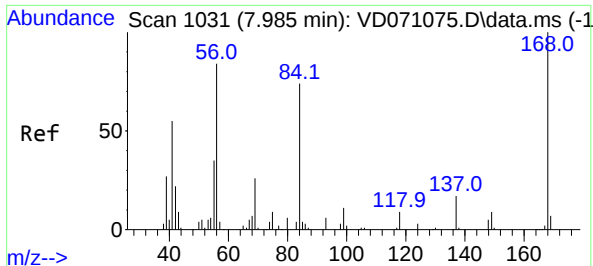
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.979	168	13541	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	20948	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	26727	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	14583	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	10585	66.619	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 133.240%			
35) Dibromofluoromethane	7.909	113	6460	48.428	ug/l	-0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 96.860%			
50) Toluene-d8	10.332	98	24956	49.161	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 98.320%			
62) 4-Bromofluorobenzene	12.620	95	12269	69.724	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 139.440%			
Target Compounds						Qvalue
5) Bromomethane	2.791	94	548	4.460	ug/l #	44
6) Chloroethane	3.009	64	158	1.348	ug/l #	39
8) Diethyl Ether	3.944	74	65	1.038	ug/l #	5
11) Tert butyl alcohol	5.238	59	71	Below Cal	#	71
13) Acrolein	3.938	56	55	5.065	ug/l #	13
15) Acrylonitrile	5.515	53	124	4.073	ug/l #	19
16) Acetone	4.156	43	266	36.324	ug/l #	60
20) Methylene Chloride	4.962	84	452	Below Cal	#	83
23) Vinyl Acetate	6.262	43	55	27.408	ug/l #	72
25) 2-Butanone	7.191	43	65	29.542	ug/l #	45
28) Bromochloromethane	7.673	49	131	1.096	ug/l #	14
29) Tetrahydrofuran	7.591	42	124	4.915	ug/l #	34
31) Cyclohexane	7.961	56	482	1.783	ug/l #	67
41) Methacrylonitrile	7.514	41	55	Below Cal	#	12
43) Isopropyl Acetate	8.508	43	61	5.516	ug/l #	47
48) Methyl methacrylate	9.455	41	162	1.957	ug/l #	15
49) 1,4-Dioxane	9.420	88	133	189.884	ug/l #	32
51) 4-Methyl-2-Pentanone	10.291	43	91	31.489	ug/l #	34
56) Ethyl methacrylate	10.461	69	54	6.317	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.732	63	72	1.112	ug/l #	49
59) 2-Hexanone	11.032	43	66	35.365	ug/l #	22
74) N-amyl acetate	12.261	43	76	5.934	ug/l #	28
76) 1,2,3-Trichloropropane	12.620	75	7026	50.568	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.620	75	7026	110.392	ug/l #	18
92) 1,2-Dibromo-3-Chloropr...	14.314	75	62	2.189	ug/l #	4

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

Quant Time: Dec 16 04:32:13 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

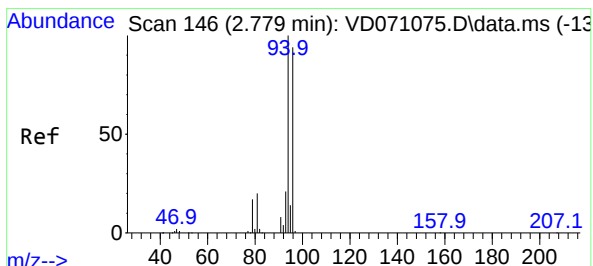
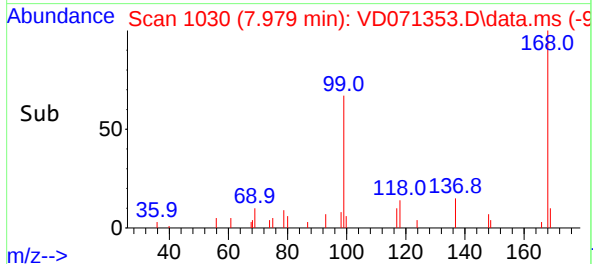
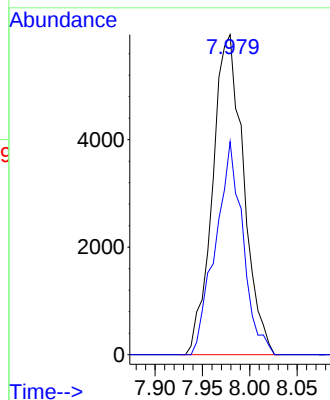
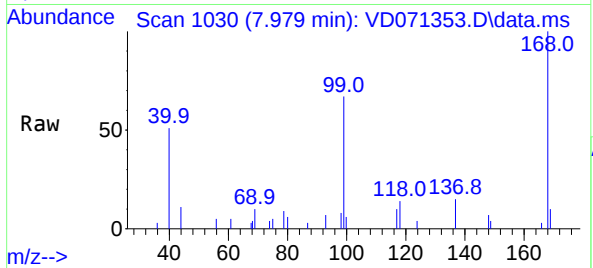




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1031
Delta R.T. -0.006 min
Lab File: VD071353.D
Acq: 15 Dec 2021 20:10

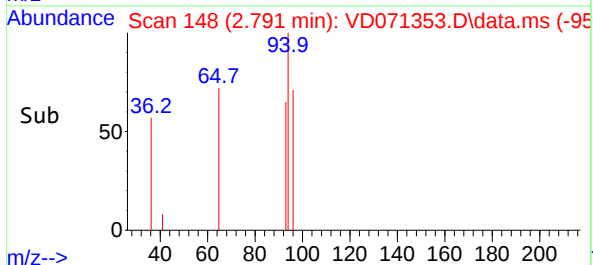
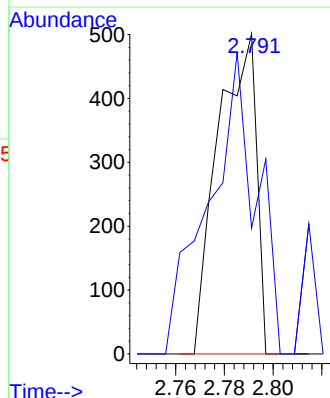
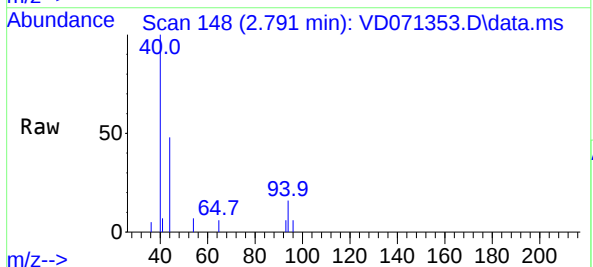
Instrument :
MSVOA_D
ClientSampleId :

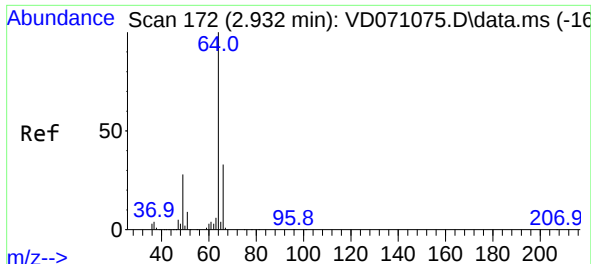
Tgt Ion:168 Resp: 13541
Ion Ratio Lower Upper
168 100
99 66.6 46.6 69.8



#5
Bromomethane
Concen: 4.460 ug/l
RT: 2.791 min Scan# 148
Delta R.T. 0.012 min
Lab File: VD071353.D
Acq: 15 Dec 2021 20:10

Tgt Ion: 94 Resp: 548
Ion Ratio Lower Upper
94 100
96 39.3 74.8 112.2#

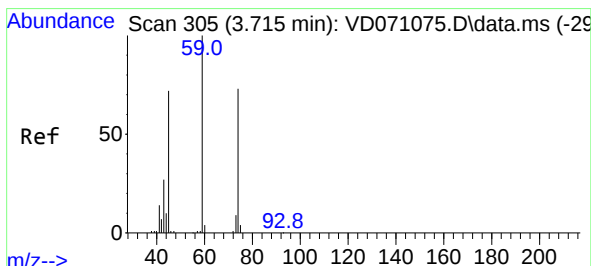
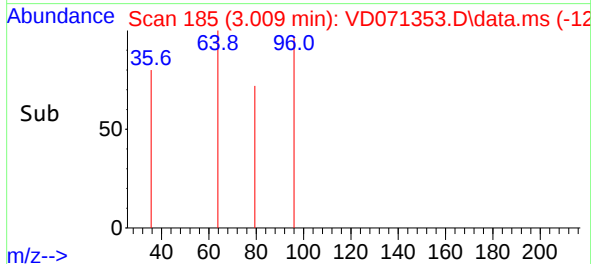
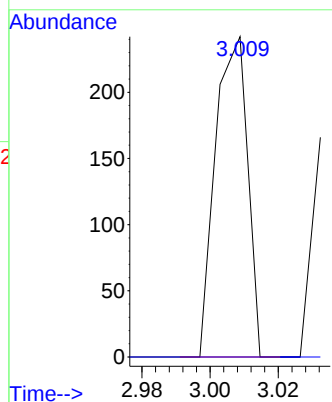
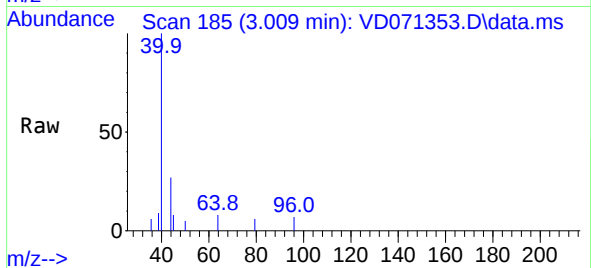




#6
Chloroethane
Concen: 1.348 ug/l
RT: 3.009 min Scan# 11
Delta R.T. 0.077 min
Lab File: VD071353.D
Acq: 15 Dec 2021 20:10

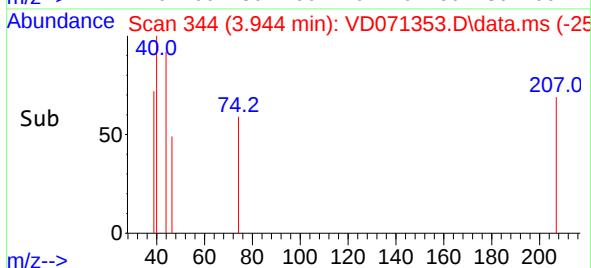
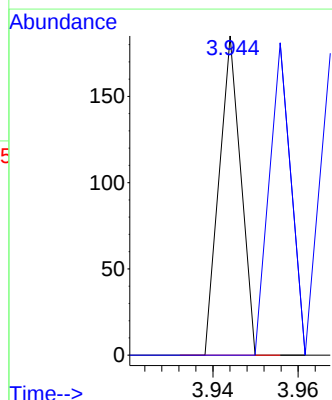
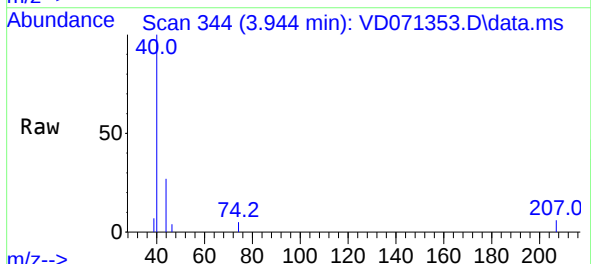
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MSVOA_D
ClientSampleId :

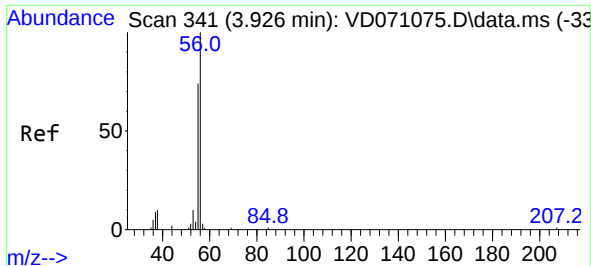
Tgt Ion: 64 Resp: 158
Ion Ratio Lower Upper
64 100
66 0.0 29.0 43.4#



#8
Diethyl Ether
Concen: 1.038 ug/l
RT: 3.944 min Scan# 344
Delta R.T. 0.229 min
Lab File: VD071353.D
Acq: 15 Dec 2021 20:10

Tgt Ion: 74 Resp: 65
Ion Ratio Lower Upper
74 100
45 193.8 49.6 149.0#

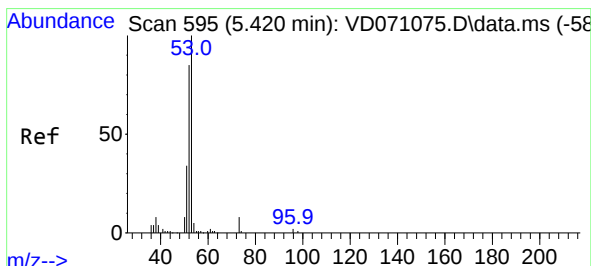
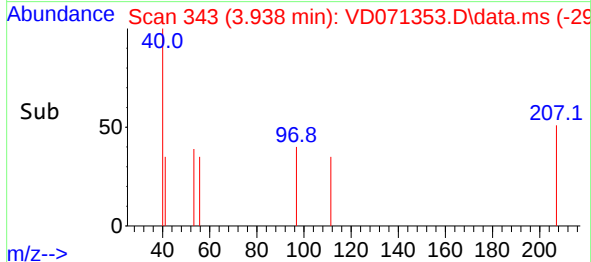
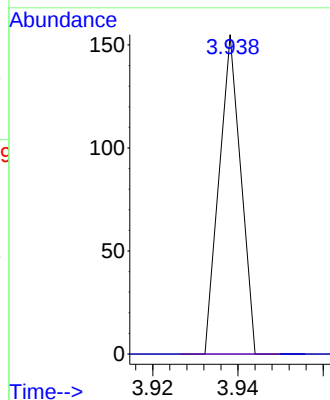
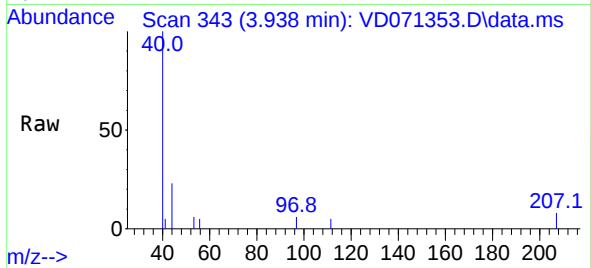




#13
Acrolein
Concen: 5.065 ug/l
RT: 3.938 min Scan# 341
Delta R.T. 0.012 min
Lab File: VD071353.D
Acq: 15 Dec 2021 20:10

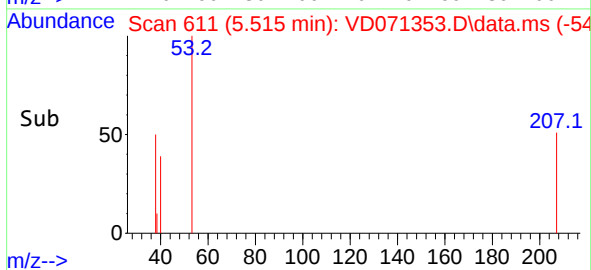
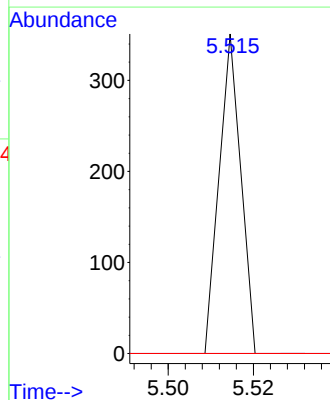
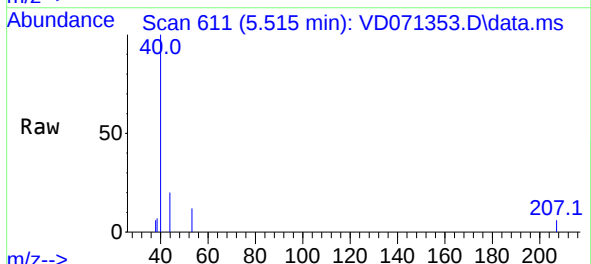
Instrument :
MSVOA_D
ClientSampleId :

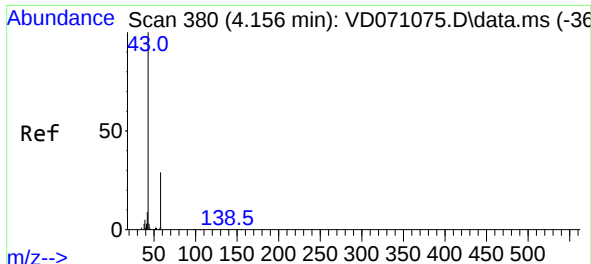
Tgt Ion: 56 Resp: 55
Ion Ratio Lower Upper
56 100
55 0.0 58.6 87.8#



#15
Acrylonitrile
Concen: 4.073 ug/l
RT: 5.515 min Scan# 611
Delta R.T. 0.095 min
Lab File: VD071353.D
Acq: 15 Dec 2021 20:10

Tgt Ion: 53 Resp: 124
Ion Ratio Lower Upper
53 100
52 0.0 63.8 95.8#
51 0.0 28.5 42.7#

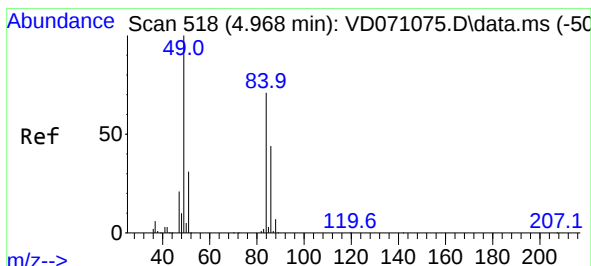
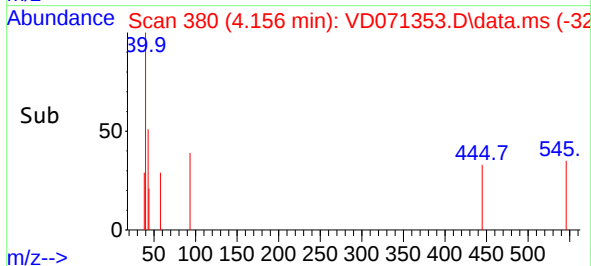
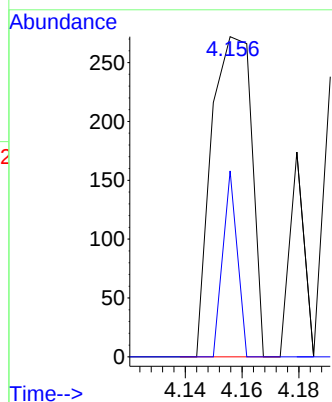
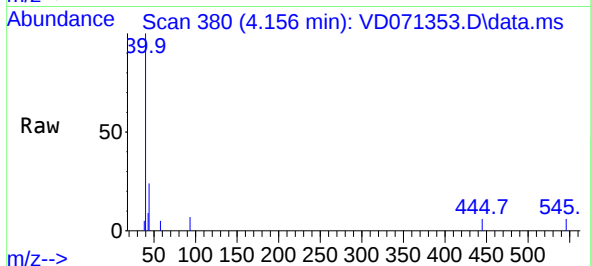




#16
Acetone
Concen: 36.324 ug/l
RT: 4.156 min Scan# 31
Delta R.T. -0.000 min
Lab File: VD071353.D
Acq: 15 Dec 2021 20:10

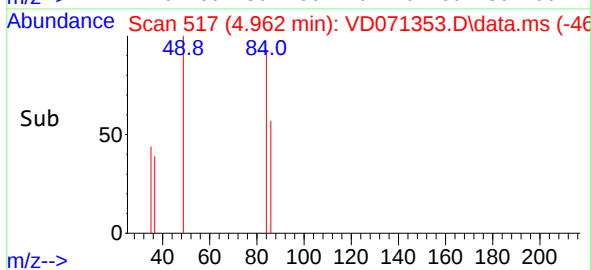
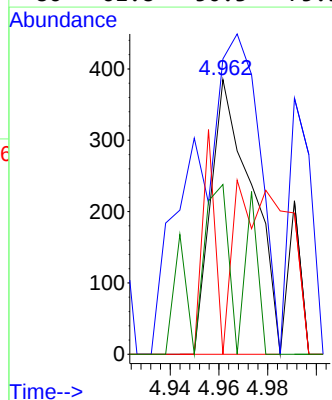
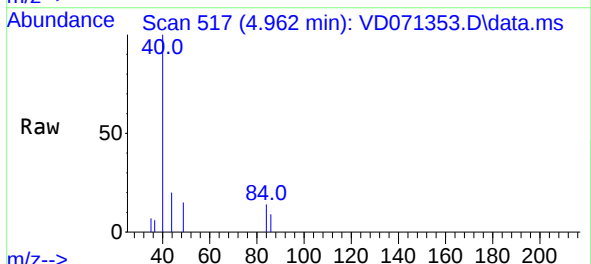
Instrument :
MSVOA_D
ClientSampleId :

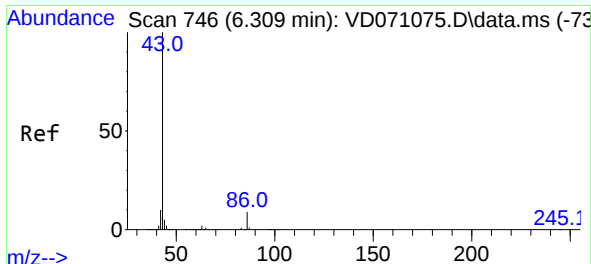
Tgt Ion: 43 Resp: 266
Ion Ratio Lower Upper
43 100
58 58.1 27.8 41.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.962 min Scan# 517
Delta R.T. -0.006 min
Lab File: VD071353.D
Acq: 15 Dec 2021 20:10

Tgt Ion: 84 Resp: 452
Ion Ratio Lower Upper
84 100
49 107.5 95.8 143.6
51 0.0 30.9 46.3#
86 61.8 50.3 75.5

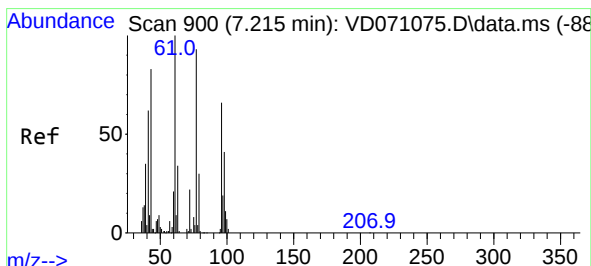
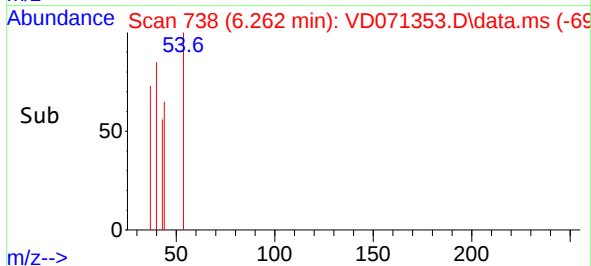
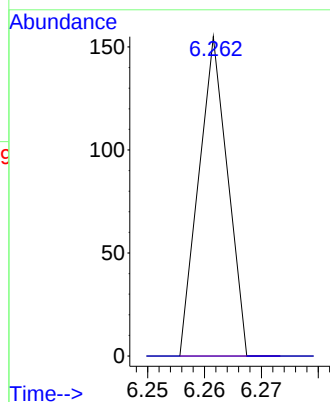
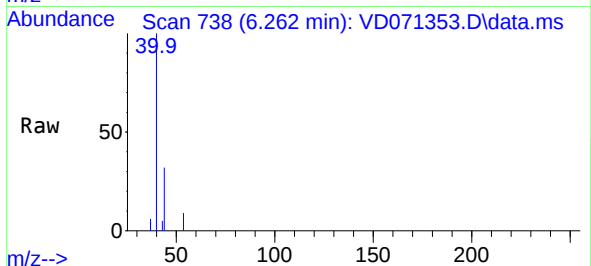




#23
 Vinyl Acetate
 Concen: 27.408 ug/l
 RT: 6.262 min Scan# 71
 Delta R.T. -0.047 min
 Lab File: VD071353.D
 Acq: 15 Dec 2021 20:10

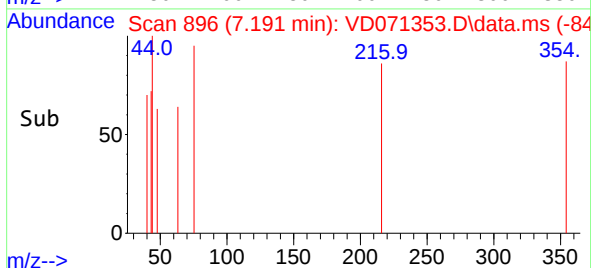
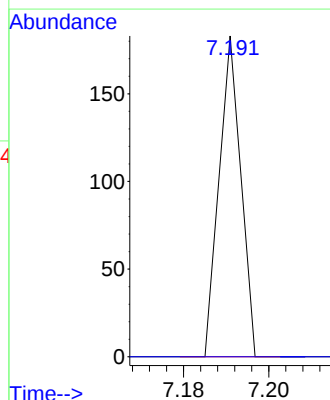
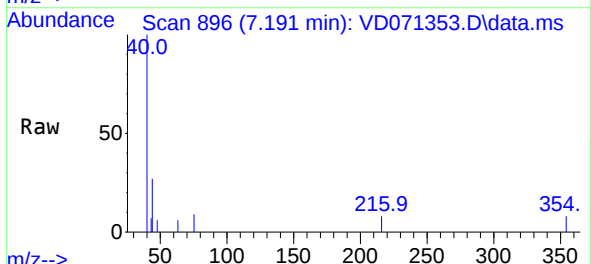
Instrument :
 MSVOA_D
 ClientSampleId :

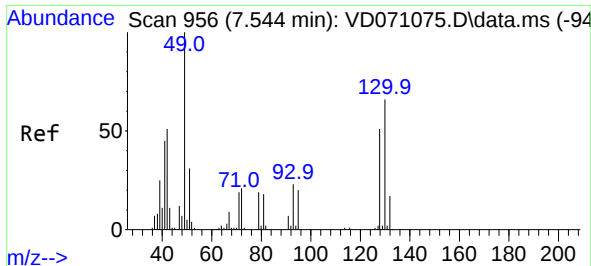
Tgt Ion: 43 Resp: 55
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.2 12.4#



#25
 2-Butanone
 Concen: 29.542 ug/l
 RT: 7.191 min Scan# 896
 Delta R.T. -0.024 min
 Lab File: VD071353.D
 Acq: 15 Dec 2021 20:10

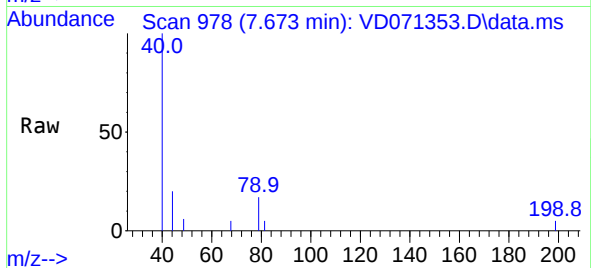
Tgt Ion: 43 Resp: 65
 Ion Ratio Lower Upper
 43 100
 72 0.0 23.8 35.6#



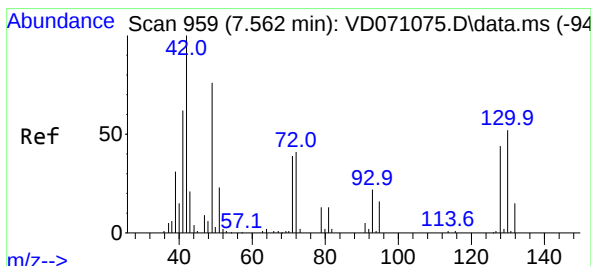
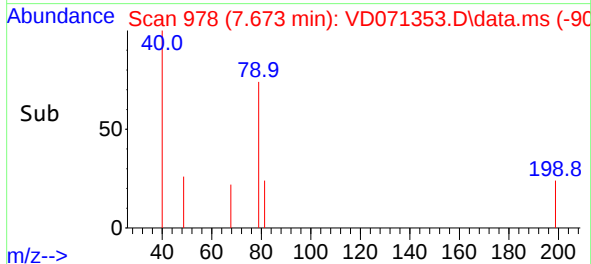
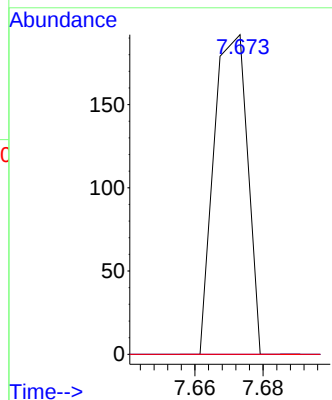


#28
Bromochloromethane
Concen: 1.096 ug/l
RT: 7.673 min Scan# 91
Delta R.T. 0.129 min
Lab File: VD071353.D
Acq: 15 Dec 2021 20:10

Instrument :
MSVOA_D
ClientSampleId :

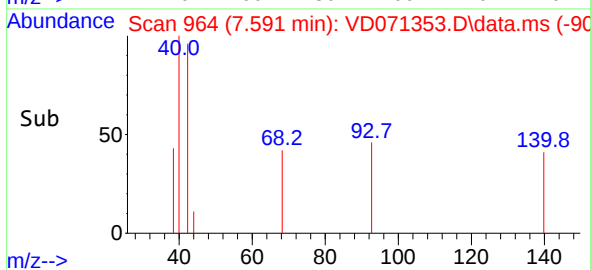
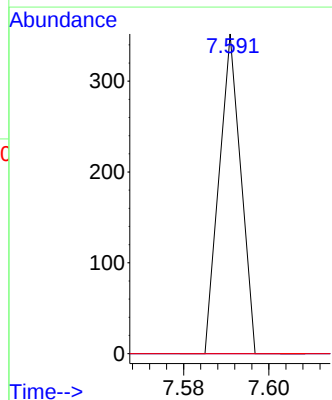
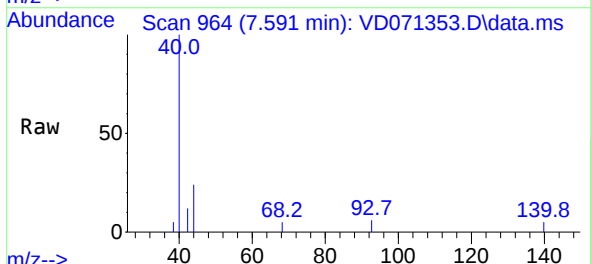


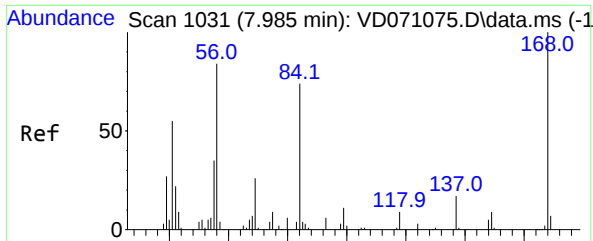
Tgt Ion: 49 Resp: 131
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.0
130 0.0 60.2 90.2#



#29
Tetrahydrofuran
Concen: 4.915 ug/l
RT: 7.591 min Scan# 964
Delta R.T. 0.029 min
Lab File: VD071353.D
Acq: 15 Dec 2021 20:10

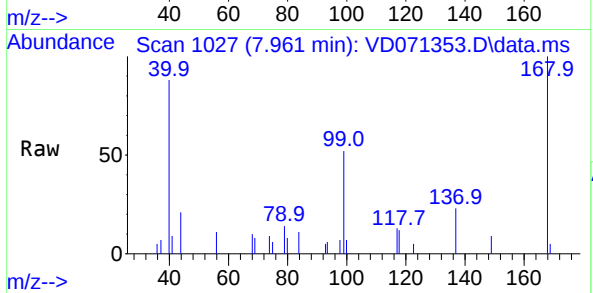
Tgt Ion: 42 Resp: 124
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 0.0 32.7 49.1#



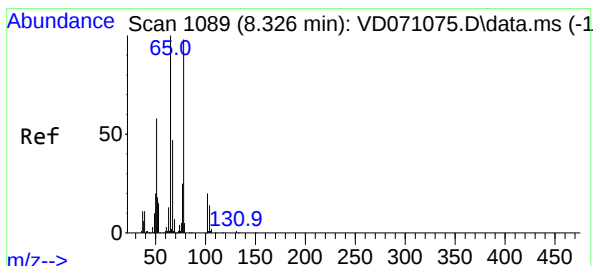
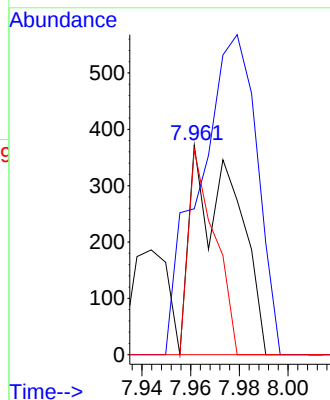
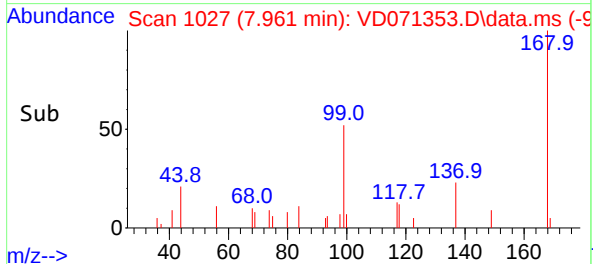


#31
Cyclohexane
Concen: 1.783 ug/l
RT: 7.961 min Scan# 1027
Delta R.T. -0.024 min
Lab File: VD071353.D
Acq: 15 Dec 2021 20:10

Instrument :
MSVOA_D
ClientSampleId :

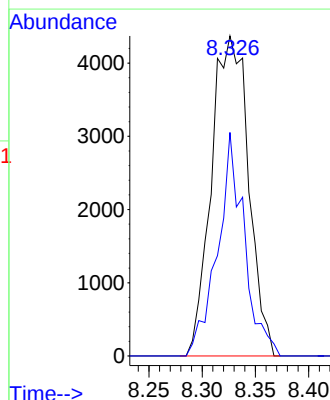
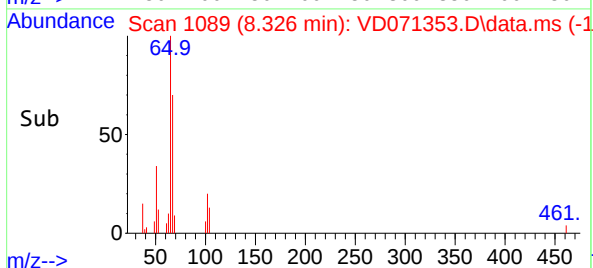
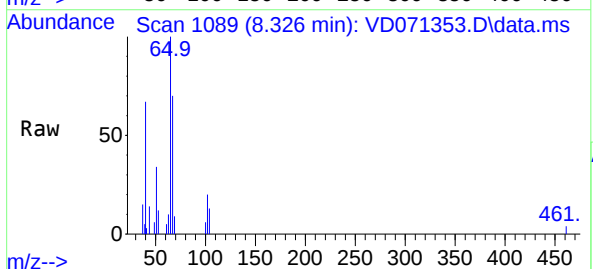


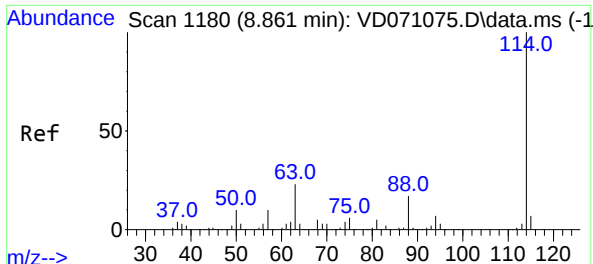
Tgt Ion: 56 Resp: 482
Ion Ratio Lower Upper
56 100
69 69.6 25.9 38.9#
84 97.8 64.3 96.5#



#33
1,2-Dichloroethane-d4
Concen: 66.619 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VD071353.D
Acq: 15 Dec 2021 20:10

Tgt Ion: 65 Resp: 10585
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# 11

Delta R.T. 0.000 min

Lab File: VD071353.D

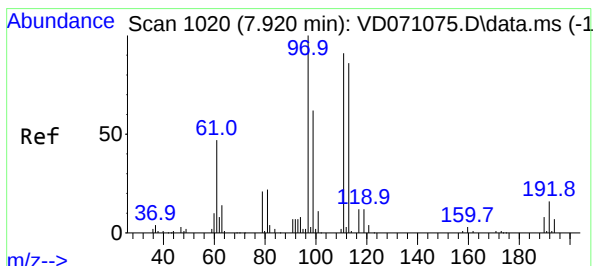
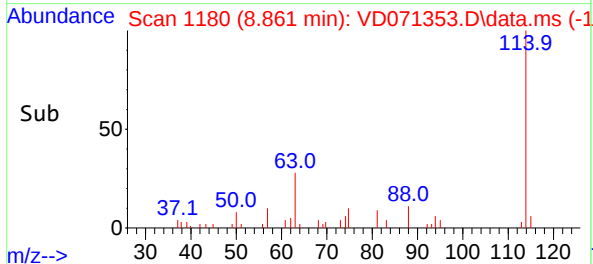
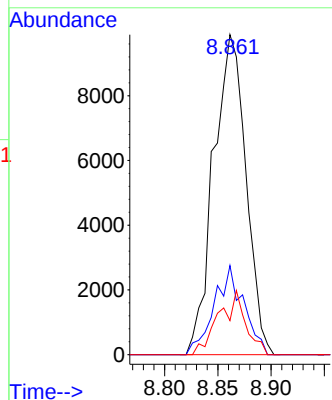
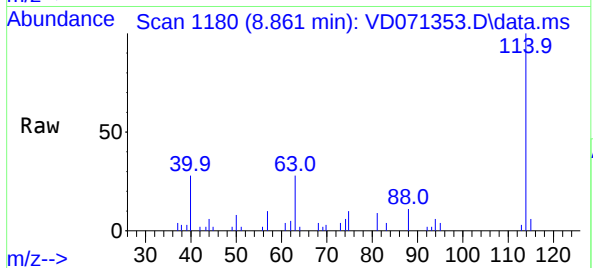
Acq: 15 Dec 2021 20:10

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:114	Resp:	20948
Ion Ratio	Lower	Upper
114	100	
63	27.8	0.0 41.8
88	10.7	0.0 32.8



#35

Dibromofluoromethane

Concen: 48.428 ug/l

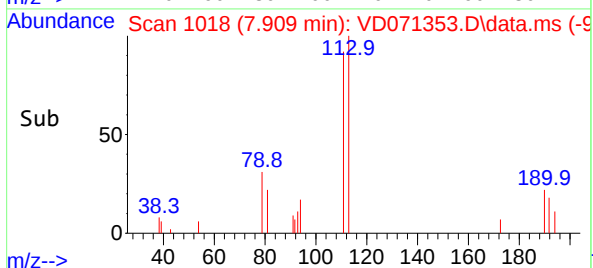
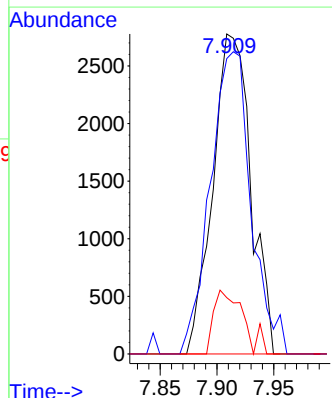
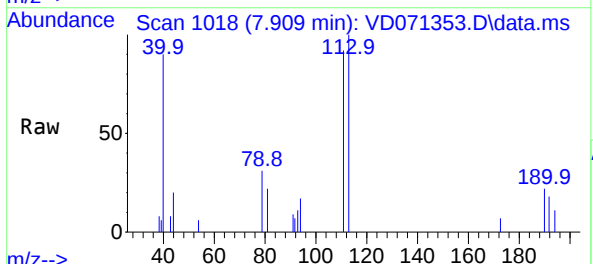
RT: 7.909 min Scan# 1018

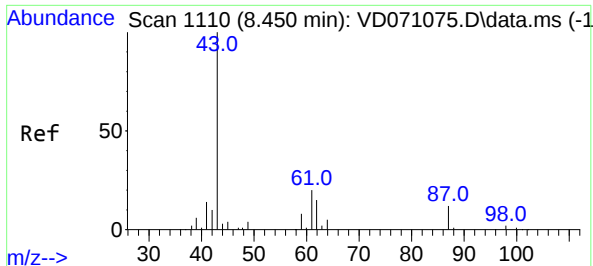
Delta R.T. -0.011 min

Lab File: VD071353.D

Acq: 15 Dec 2021 20:10

Tgt Ion:113	Resp:	6460
Ion Ratio	Lower	Upper
113	100	
111	101.3	82.0 123.0
192	15.4	15.2 22.8





#43

Isopropyl Acetate

Concen: 5.516 ug/l

RT: 8.508 min Scan# 1110

Delta R.T. 0.058 min

Lab File: VD071353.D

Acq: 15 Dec 2021 20:10

Instrument :

MSVOA_D

ClientSampleId :

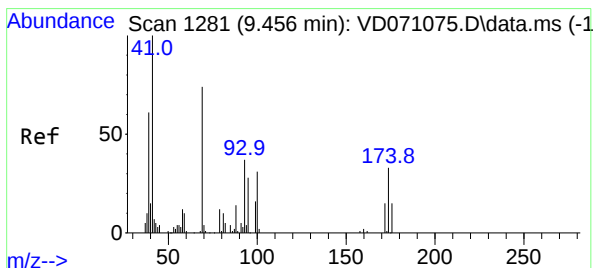
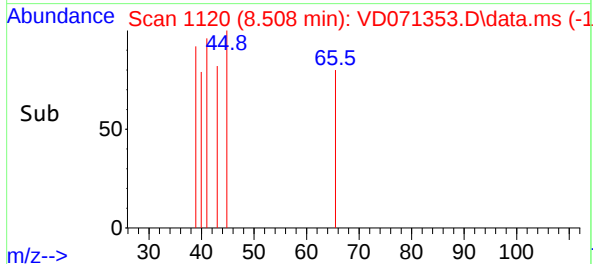
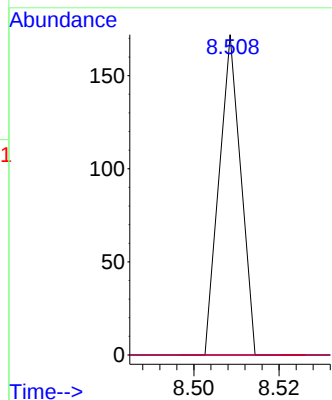
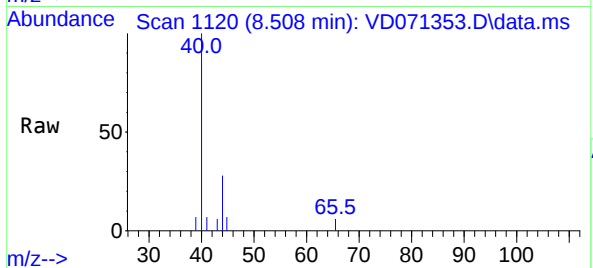
Tgt Ion: 43 Resp: 61

Ion Ratio Lower Upper

43 100

61 0.0 28.2 42.4#

87 0.0 10.7 16.1#



#48

Methyl methacrylate

Concen: 1.957 ug/l

RT: 9.455 min Scan# 1281

Delta R.T. -0.001 min

Lab File: VD071353.D

Acq: 15 Dec 2021 20:10

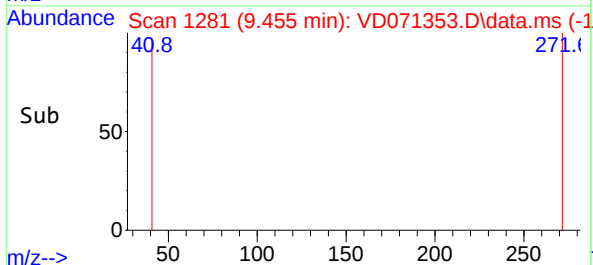
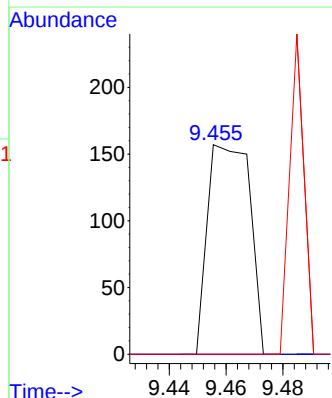
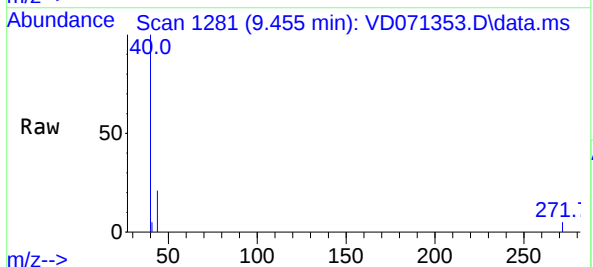
Tgt Ion: 41 Resp: 162

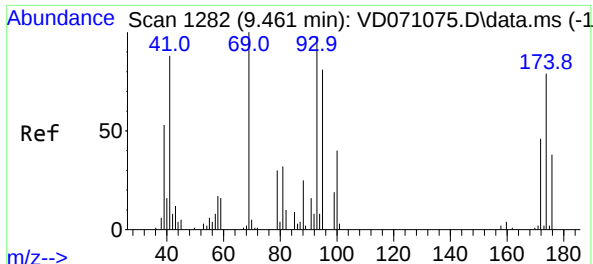
Ion Ratio Lower Upper

41 100

69 0.0 69.8 104.6#

39 0.0 35.6 53.4#





#49

1,4-Dioxane

Concen: 189.884 ug/l

RT: 9.420 min Scan# 1

Delta R.T. -0.041 min

Lab File: VD071353.D

Acq: 15 Dec 2021 20:10

Instrument :

MSVOA_D

ClientSampleId :

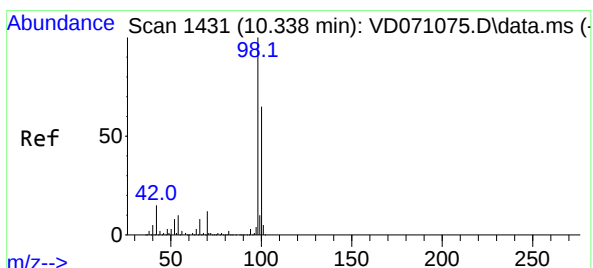
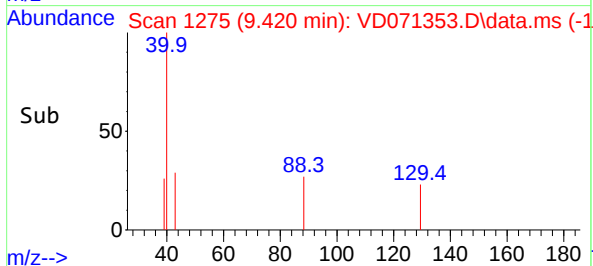
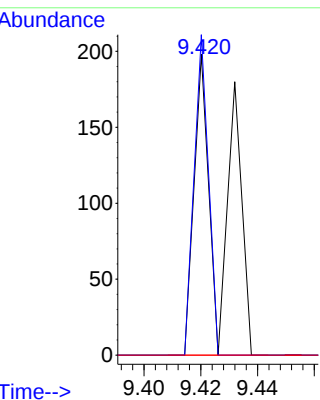
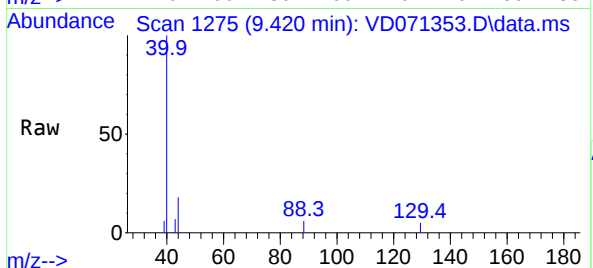
Tgt Ion: 88 Resp: 133

Ion Ratio Lower Upper

88 100

43 55.6 28.9 43.3#

58 0.0 56.3 84.5#



#50

Toluene-d8

Concen: 49.161 ug/l

RT: 10.332 min Scan# 1430

Delta R.T. -0.006 min

Lab File: VD071353.D

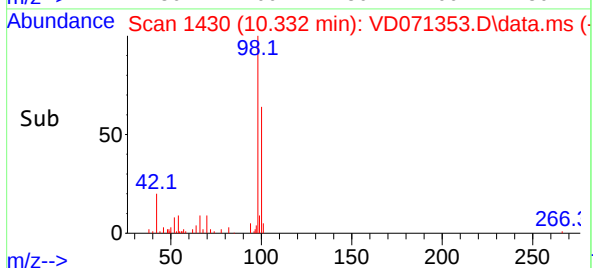
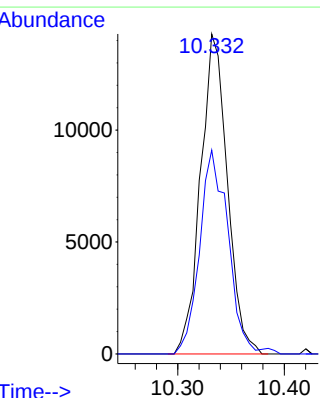
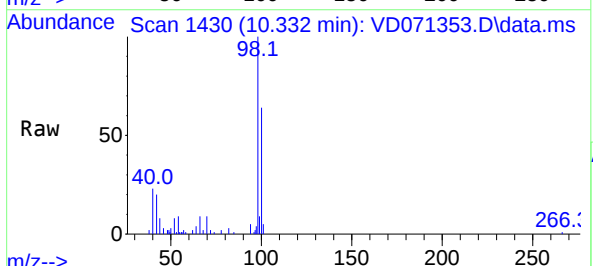
Acq: 15 Dec 2021 20:10

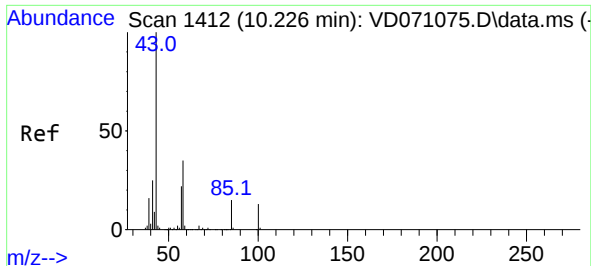
Tgt Ion: 98 Resp: 24956

Ion Ratio Lower Upper

98 100

100 67.9 51.8 77.6

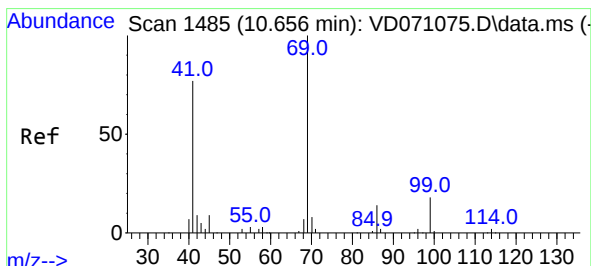
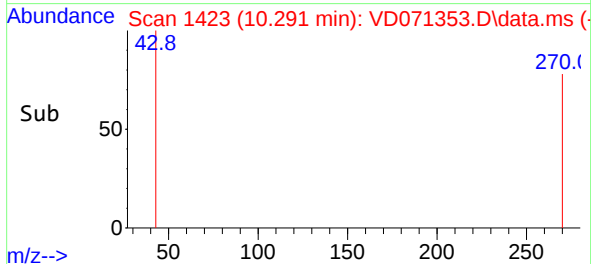
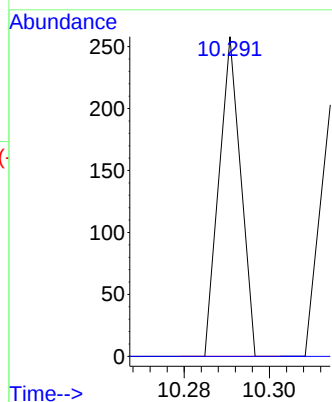
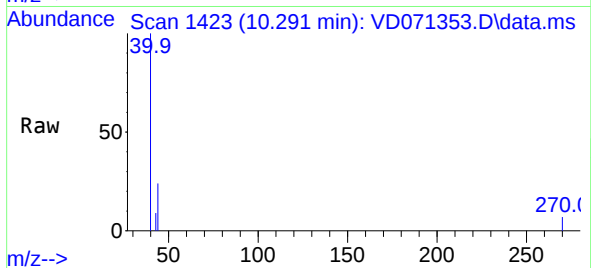




#51
4-Methyl-2-Pentanone
Concen: 31.489 ug/l
RT: 10.291 min Scan# 1412
Delta R.T. 0.065 min
Lab File: VD071353.D
Acq: 15 Dec 2021 20:10

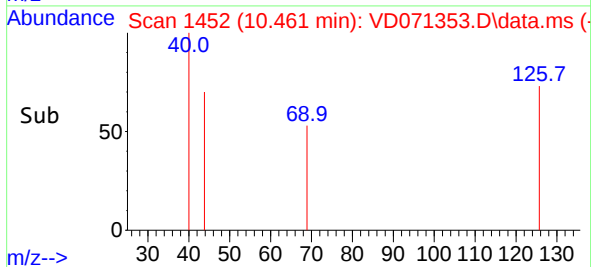
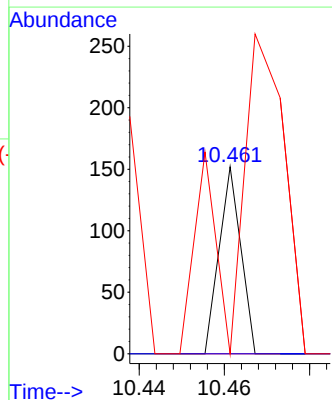
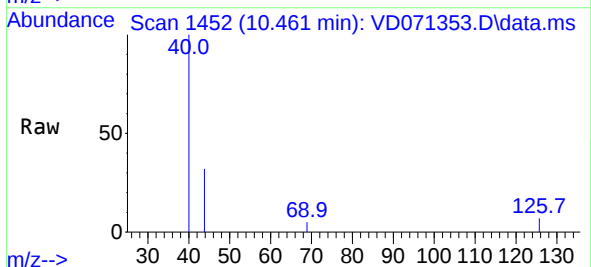
Instrument :
MSVOA_D
ClientSampleId :

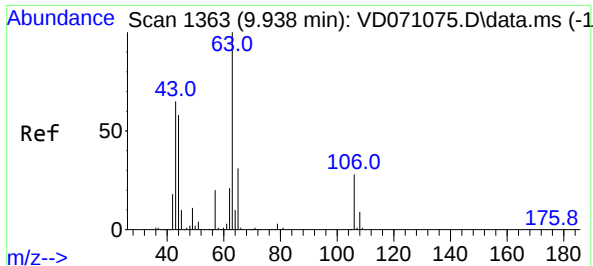
Tgt Ion: 43 Resp: 91
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#



#56
Ethyl methacrylate
Concen: 6.317 ug/l
RT: 10.461 min Scan# 1452
Delta R.T. -0.195 min
Lab File: VD071353.D
Acq: 15 Dec 2021 20:10

Tgt Ion: 69 Resp: 54
Ion Ratio Lower Upper
69 100
41 0.0 50.2 75.2#
39 413.0 19.8 29.8#

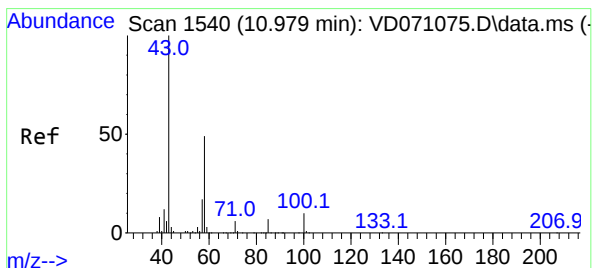
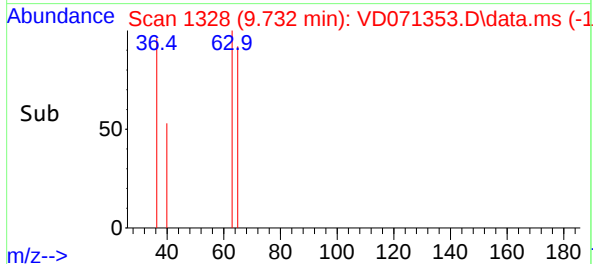
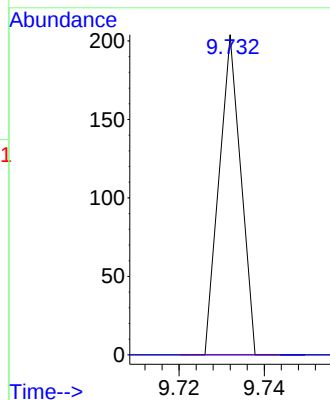
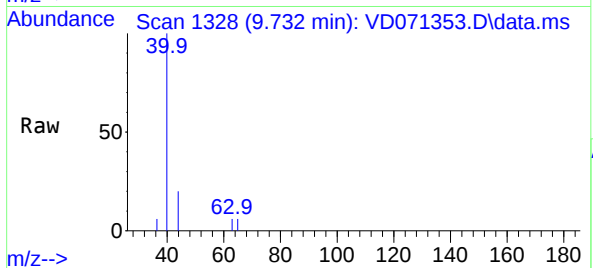




#58
2-Chloroethyl Vinyl ether
Concen: 1.112 ug/l
RT: 9.732 min Scan# 11
Delta R.T. -0.206 min
Lab File: VD071353.D
Acq: 15 Dec 2021 20:10

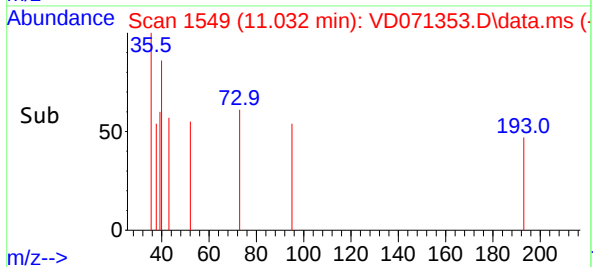
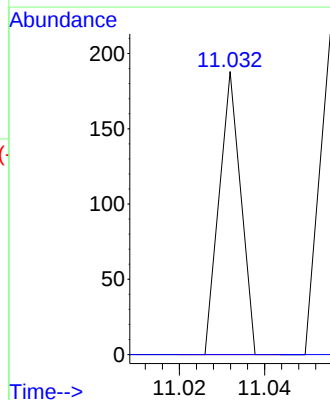
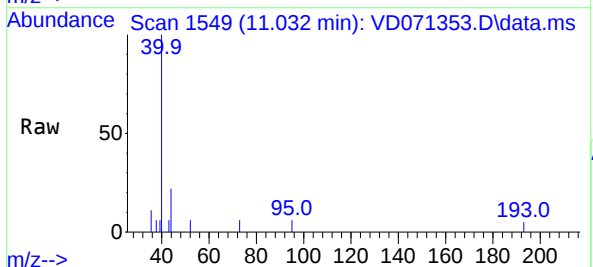
Instrument :
MSVOA_D
ClientSampleId :

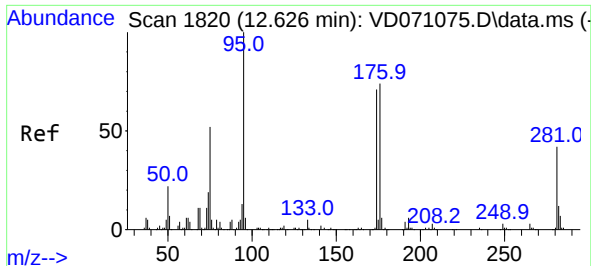
Tgt Ion: 63 Resp: 72
Ion Ratio Lower Upper
63 100
106 0.0 21.0 31.4#



#59
2-Hexanone
Concen: 35.365 ug/l
RT: 11.032 min Scan# 1549
Delta R.T. 0.053 min
Lab File: VD071353.D
Acq: 15 Dec 2021 20:10

Tgt Ion: 43 Resp: 66
Ion Ratio Lower Upper
43 100
58 0.0 28.7 86.1#

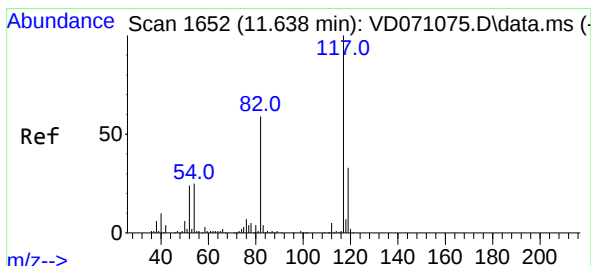
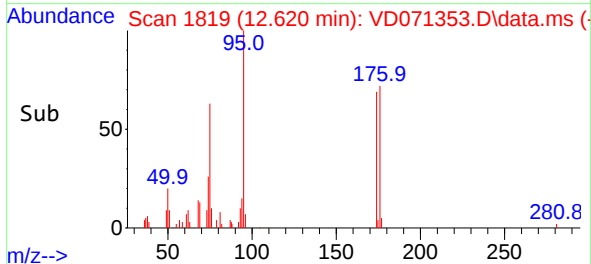
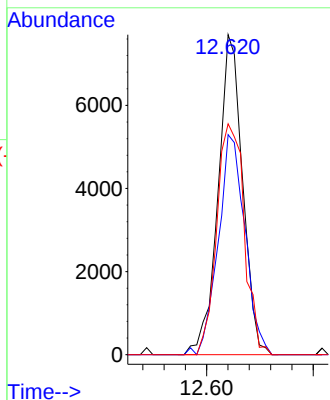
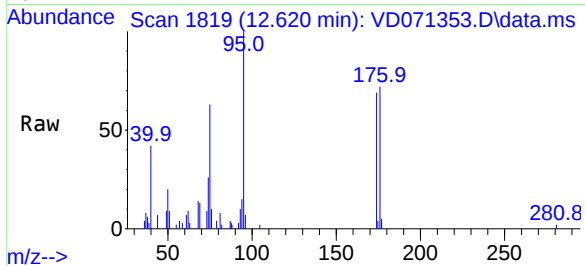




#62
4-Bromofluorobenzene
Concen: 69.724 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD071353.D
Acq: 15 Dec 2021 20:10

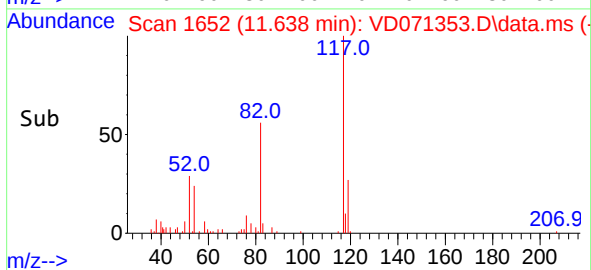
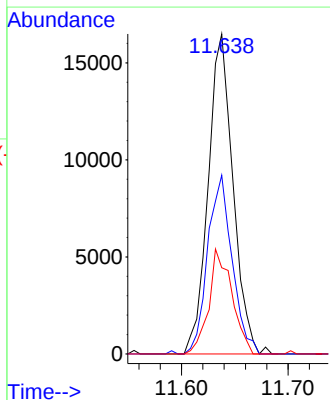
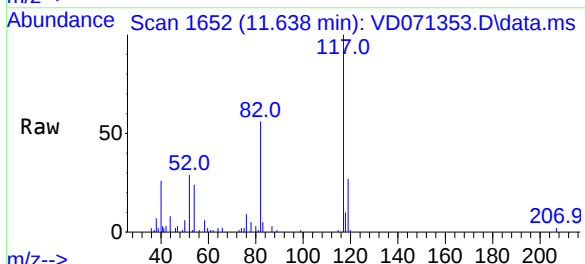
Instrument :
MSVOA_D
ClientSampleId :

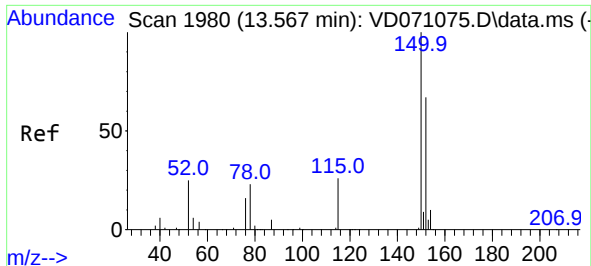
Tgt Ion:	95	Resp:	12269
Ion	Ratio	Lower	Upper
95	100		
174	75.0	0.0	159.4
176	81.1	0.0	154.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD071353.D
Acq: 15 Dec 2021 20:10

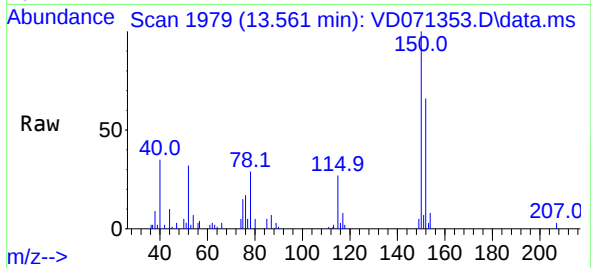
Tgt Ion:	117	Resp:	26727
Ion	Ratio	Lower	Upper
117	100		
82	55.9	44.7	67.1
119	26.9	26.2	39.4



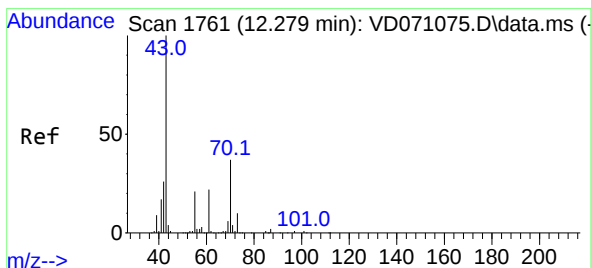
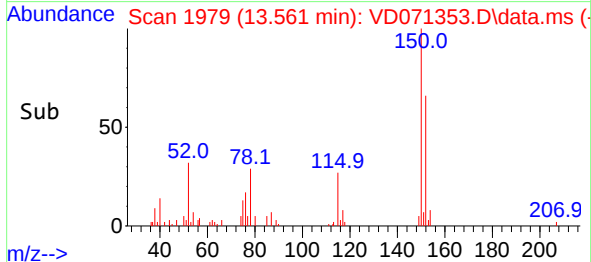
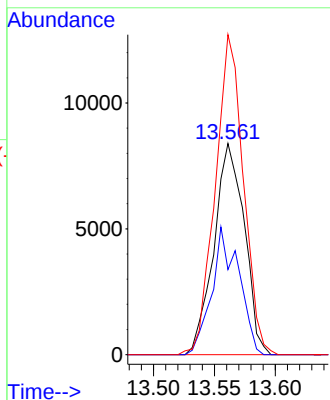


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1980
Delta R.T. -0.006 min
Lab File: VD071353.D
Acq: 15 Dec 2021 20:10

Instrument :
MSVOA_D
ClientSampleId :

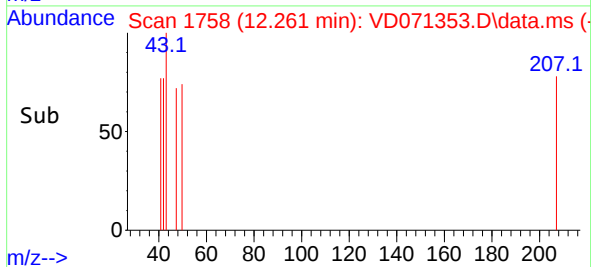
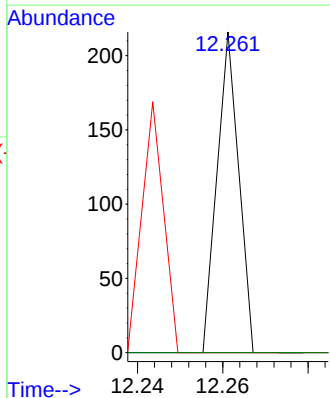
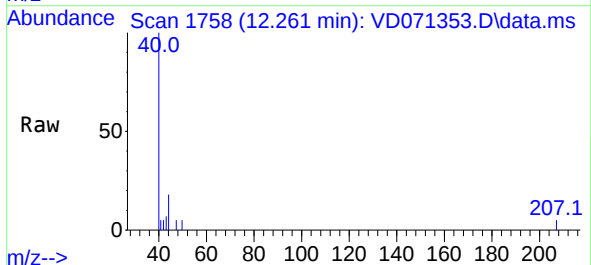


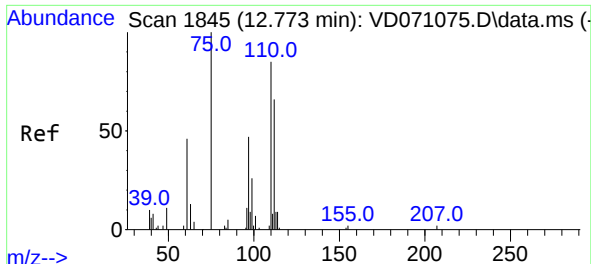
Tgt Ion:152 Resp: 14583
Ion Ratio Lower Upper
152 100
115 53.8 29.8 89.3
150 140.4 0.0 349.2



#74
N-ethyl acetate
Concen: 5.934 ug/l
RT: 12.261 min Scan# 1758
Delta R.T. -0.018 min
Lab File: VD071353.D
Acq: 15 Dec 2021 20:10

Tgt Ion: 43 Resp: 76
Ion Ratio Lower Upper
43 100
70 0.0 36.6 55.0#
55 78.9 22.5 33.7#
61 0.0 20.5 30.7#

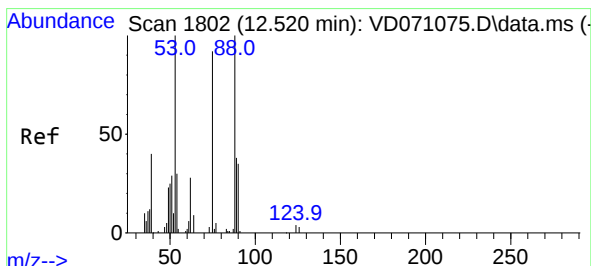
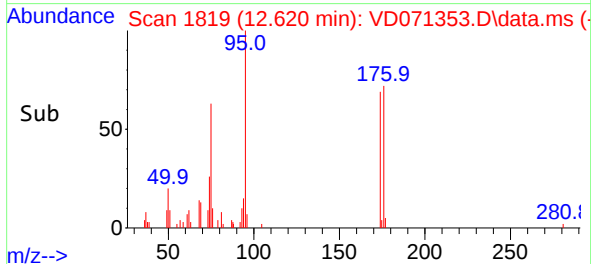
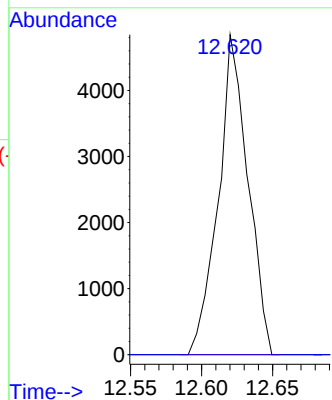
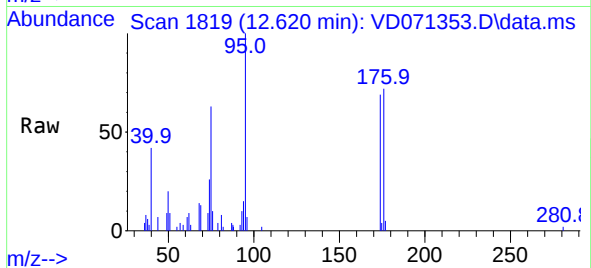




#76
1,2,3-Trichloropropane
Concen: 50.568 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD071353.D
Acq: 15 Dec 2021 20:10

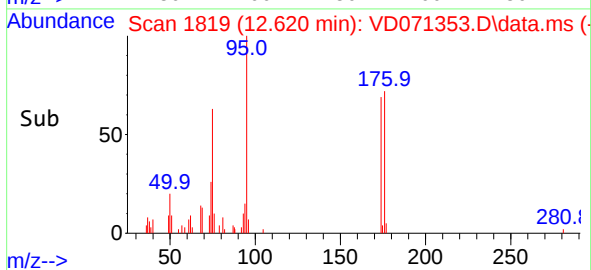
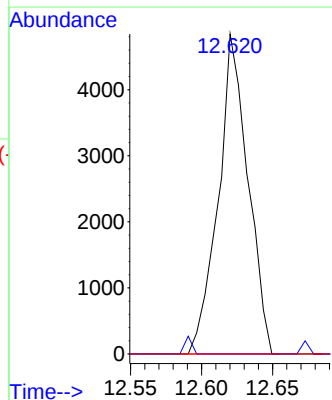
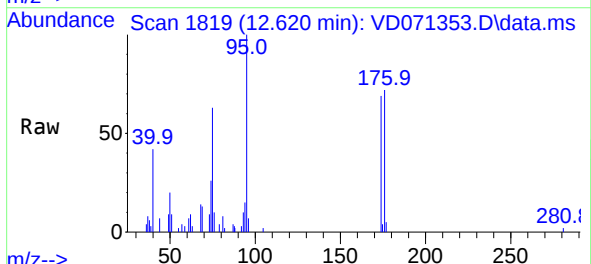
Instrument :
MSVOA_D
ClientSampleId :

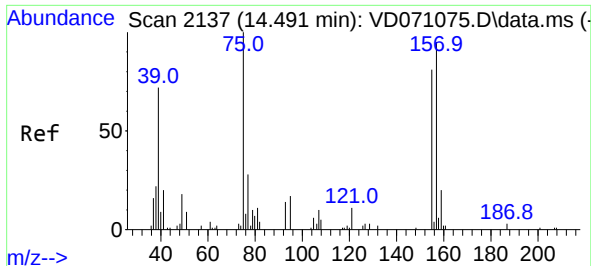
Tgt Ion: 75 Resp: 7026
Ion Ratio Lower Upper
75 100
77 0.0 158.4 475.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 110.392 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.100 min
Lab File: VD071353.D
Acq: 15 Dec 2021 20:10

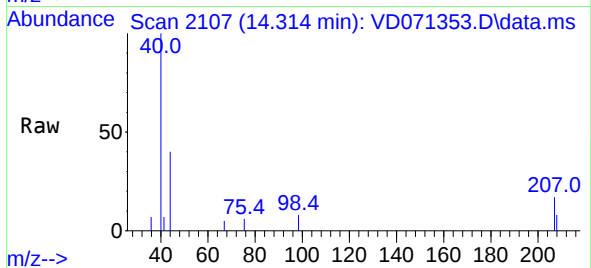
Tgt Ion: 75 Resp: 7026
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 0.0 34.5 51.7#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.189 ug/l
 RT: 14.314 min Scan# 21
 Delta R.T. -0.177 min
 Lab File: VD071353.D
 Acq: 15 Dec 2021 20:10

Instrument :
 MSVOA_D
 ClientSampleId :



Tgt Ion: 75 Resp: 62
 Ion Ratio Lower Upper
 75 100
 155 0.0 40.0 120.0#
 157 0.0 49.8 149.3#

