

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD120821\
 Data File : VD071206.D
 Acq On : 08 Dec 2021 15:31
 Operator : VA/SY
 Sample : M4959-13RE
 Misc : 5.02G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 09 10:16:52 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)

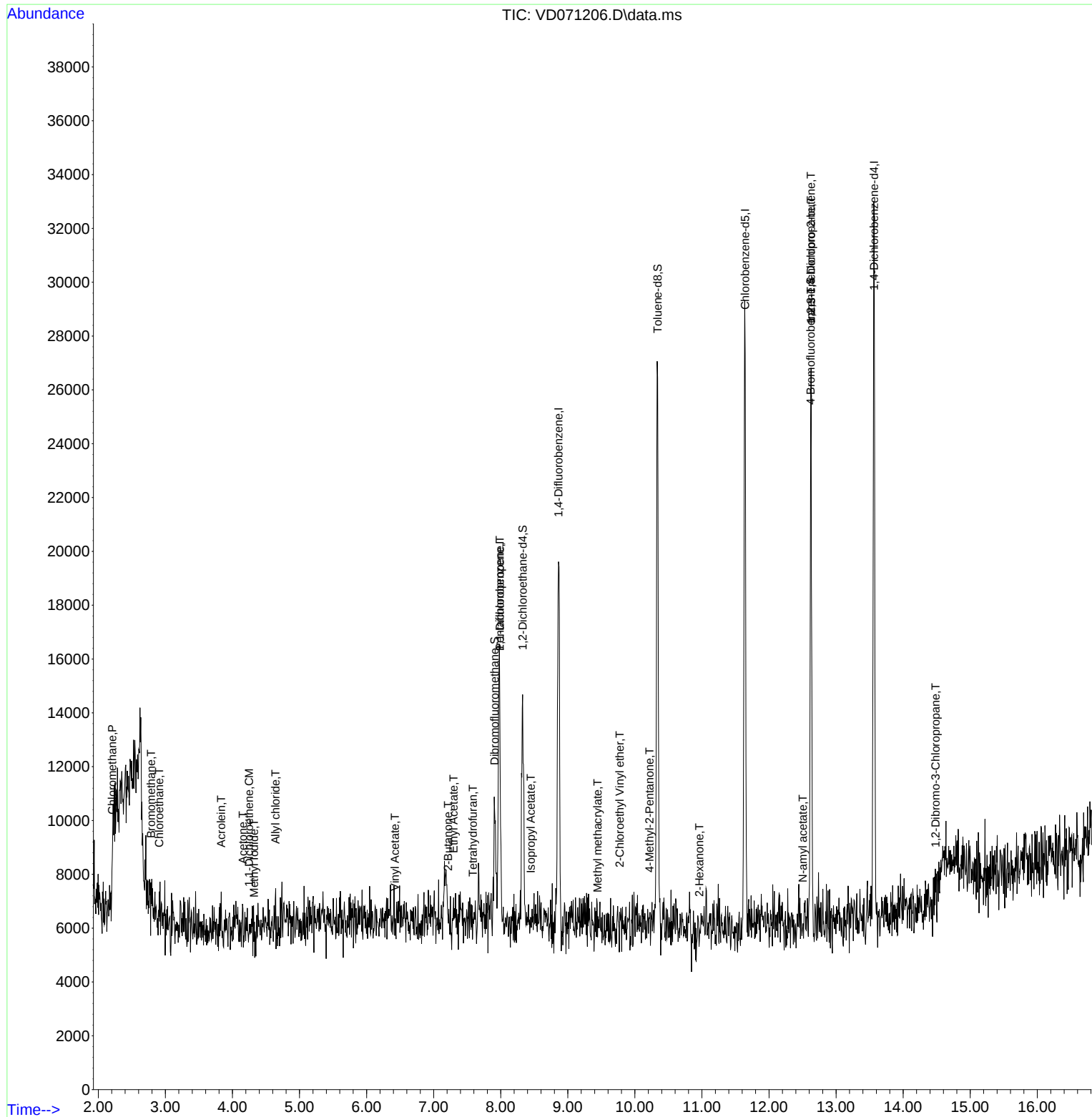
Internal Standards						
1) Pentafluorobenzene	7.985	168	6838	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.861	114	11432	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.644	117	12942	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	6476	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	5869	73.147	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 146.300%	
35) Dibromofluoromethane	7.908	113	2975	40.867	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	= 81.740%	
50) Toluene-d8	10.338	98	12984	46.868	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 93.740%	
62) 4-Bromofluorobenzene	12.620	95	6207	64.636	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 129.280%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.209	50	432	5.600	ug/l	# 42
5) Bromomethane	2.785	94	199	3.207	ug/l	# 66
6) Chloroethane	2.909	64	125	2.112	ug/l	# 39
10) Methyl Iodide	4.320	142	58	5.220	ug/l	# 32
11) Tert butyl alcohol	5.203	59	82	Below Cal	#	71
12) 1,1-Dichloroethene	4.250	96	65	1.024	ug/l	# 1
13) Acrolein	3.832	56	64	11.672	ug/l	# 13
14) Allyl chloride	4.644	41	261	2.165	ug/l	# 47
16) Acetone	4.156	43	255	41.290	ug/l	# 40
20) Methylene Chloride	4.962	84	311	Below Cal	#	61
23) Vinyl Acetate	6.420	43	54	27.587	ug/l	# 72
25) 2-Butanone	7.214	43	86	31.457	ug/l	# 45
29) Tetrahydrofuran	7.585	42	73	5.730	ug/l	# 34
36) 1,1-Dichloropropene	7.985	75	263	2.461	ug/l	# 41
37) Ethyl Acetate	7.297	43	69	1.495	ug/l	# 66
41) Methacrylonitrile	7.538	41	57	Below Cal	#	30
43) Isopropyl Acetate	8.450	43	62	5.770	ug/l	# 47
48) Methyl methacrylate	9.444	41	59	1.306	ug/l	# 15
51) 4-Methyl-2-Pentanone	10.220	43	57	31.613	ug/l	# 34
58) 2-Chloroethyl Vinyl ether	9.773	63	76	2.150	ug/l	# 49
59) 2-Hexanone	10.961	43	58	35.848	ug/l	# 22
74) N-amyl acetate	12.502	43	125	6.564	ug/l	# 40
76) 1,2,3-Trichloropropane	12.626	75	3148	51.021	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.626	75	3148	111.327	ug/l	# 18
92) 1,2-Dibromo-3-Chloropr...	14.485	75	62	4.930	ug/l	# 4

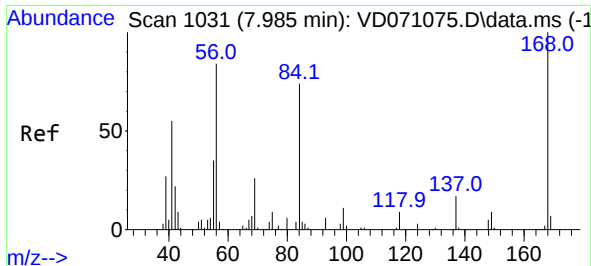
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD120821\
Data File : VD071206.D
Acq On : 08 Dec 2021 15:31
Operator : VA/SY
Sample : M4959-13RE
Misc : 5.02G/5.00ml/MSVOA_D/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :

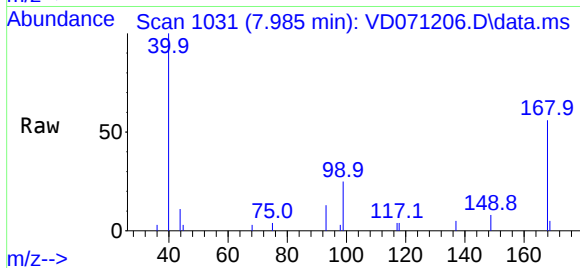
Quant Time: Dec 09 10:16:52 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D112921S.M
Quant Title : SW846 8260
QLast Update : Mon Nov 29 17:54:09 2021
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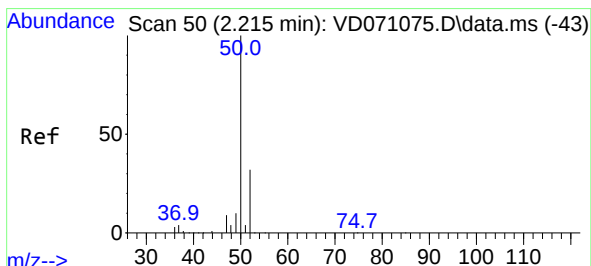
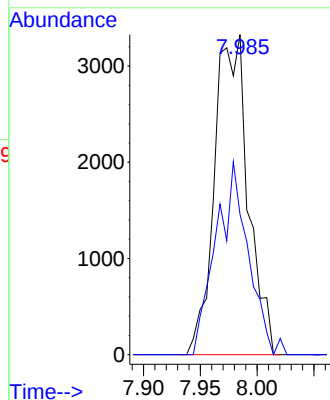
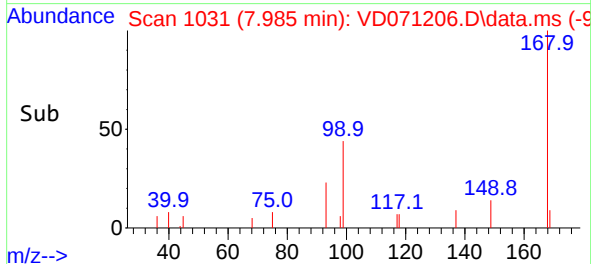


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.985 min Scan# 10
Delta R.T. -0.000 min
Lab File: VD071206.D
Acq: 08 Dec 2021 15:31

Instrument :
MSVOA_D
ClientSampleId :

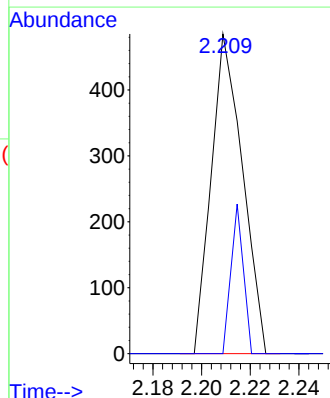
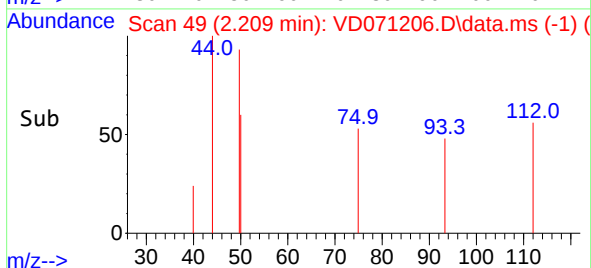
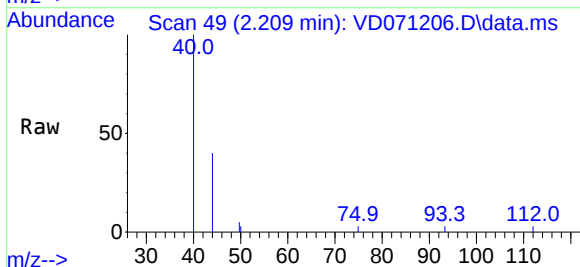


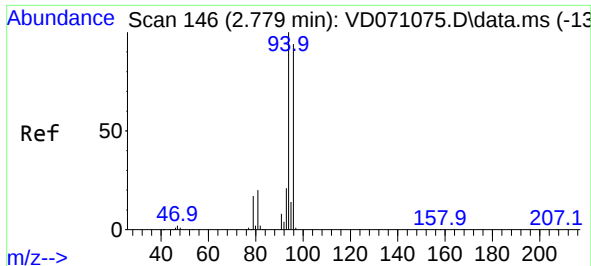
Tgt Ion:168 Resp: 6838
Ion Ratio Lower Upper
168 100
99 43.8 46.6 69.8#



#3
Chloromethane
Concen: 5.600 ug/l
RT: 2.209 min Scan# 49
Delta R.T. -0.006 min
Lab File: VD071206.D
Acq: 08 Dec 2021 15:31

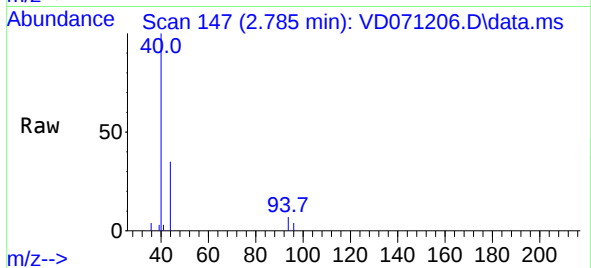
Tgt Ion: 50 Resp: 432
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.8#



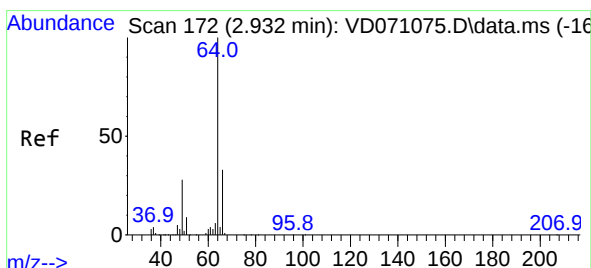
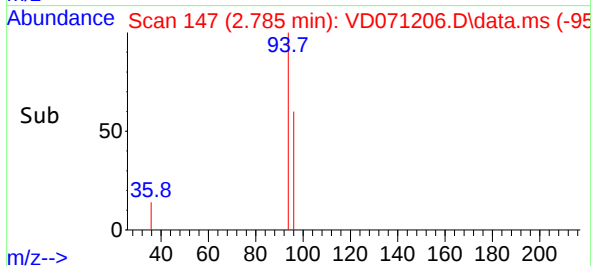
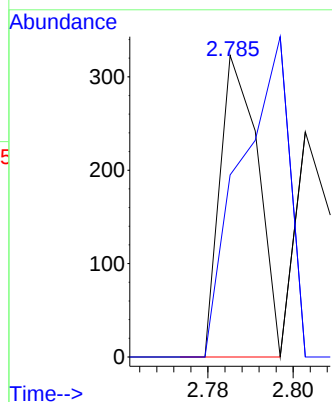


#5
Bromomethane
Concen: 3.207 ug/l
RT: 2.785 min Scan# 14
Delta R.T. 0.006 min
Lab File: VD071206.D
Acq: 08 Dec 2021 15:31

Instrument :
MSVOA_D
ClientSampleId :

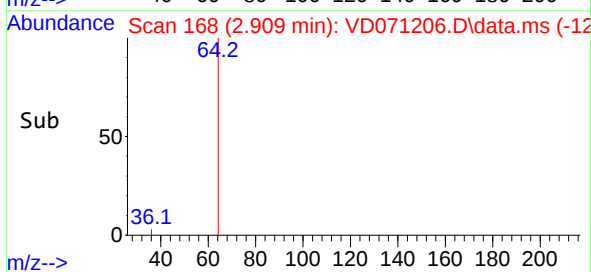
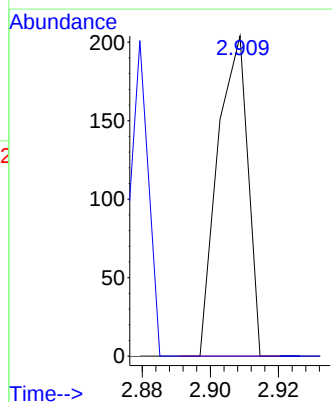
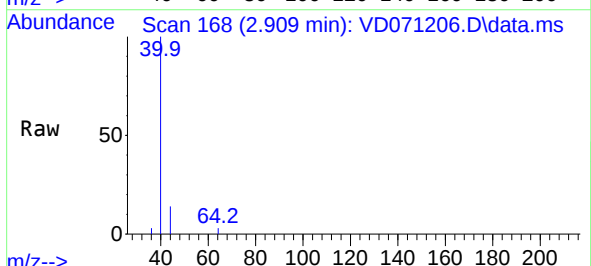


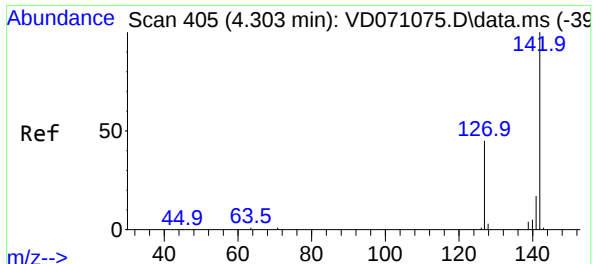
Tgt Ion: 94 Resp: 199
Ion Ratio Lower Upper
94 100
96 60.4 74.8 112.2#



#6
Chloroethane
Concen: 2.112 ug/l
RT: 2.909 min Scan# 168
Delta R.T. -0.023 min
Lab File: VD071206.D
Acq: 08 Dec 2021 15:31

Tgt Ion: 64 Resp: 125
Ion Ratio Lower Upper
64 100
66 0.0 29.0 43.4#





#10

Methyl Iodide

Concen: 5.220 ug/l

RT: 4.320 min Scan# 405

Delta R.T. 0.017 min

Lab File: VD071206.D

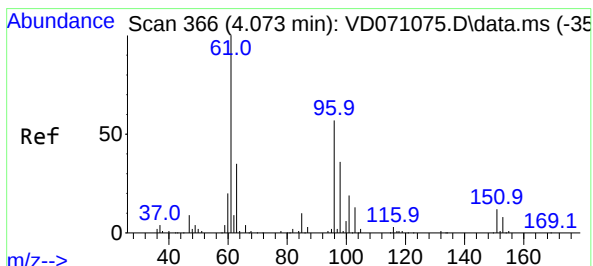
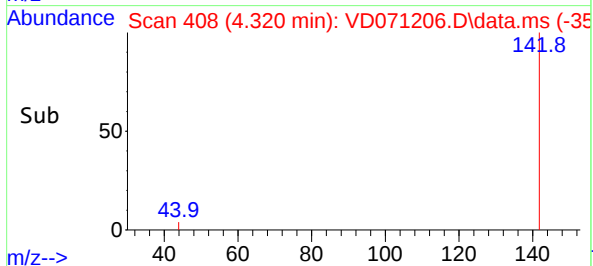
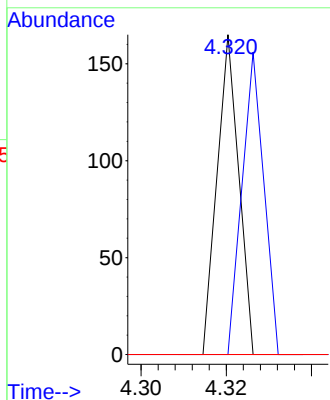
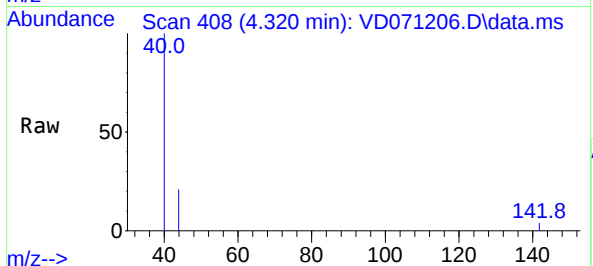
Acq: 08 Dec 2021 15:31

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:142	Resp:	58
Ion	Ratio	Lower Upper
142	100	
127	94.8	35.0 52.4#
141	0.0	12.0 18.0#



#12

1,1-Dichloroethene

Concen: 1.024 ug/l

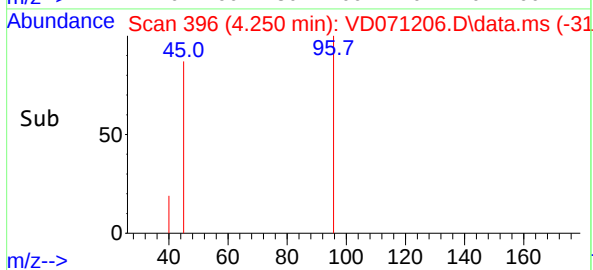
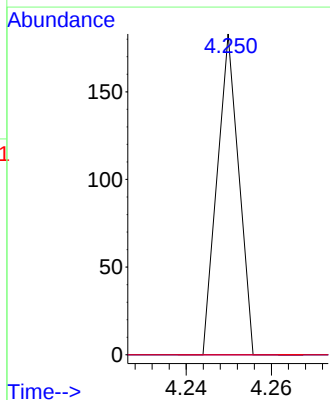
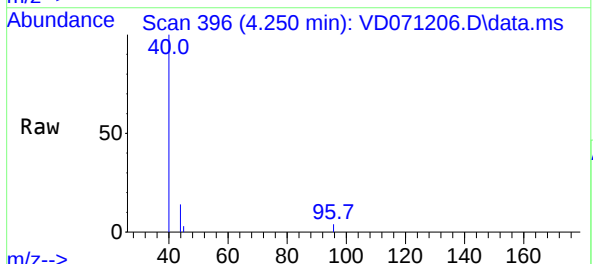
RT: 4.250 min Scan# 396

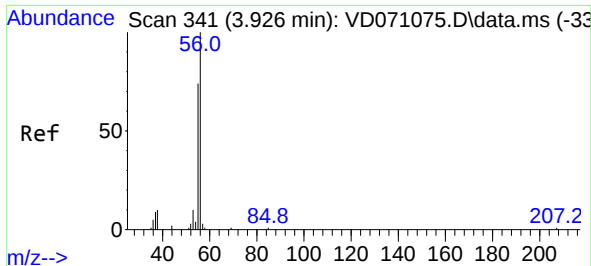
Delta R.T. 0.177 min

Lab File: VD071206.D

Acq: 08 Dec 2021 15:31

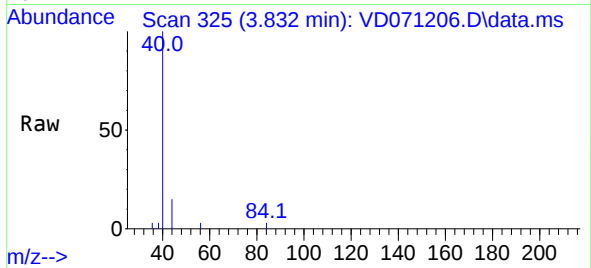
Tgt Ion: 96	Resp:	65
Ion	Ratio	Lower Upper
96	100	
61	0.0	120.3 180.5#
98	0.0	54.4 81.6#



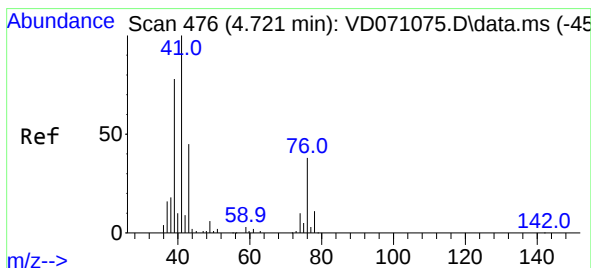
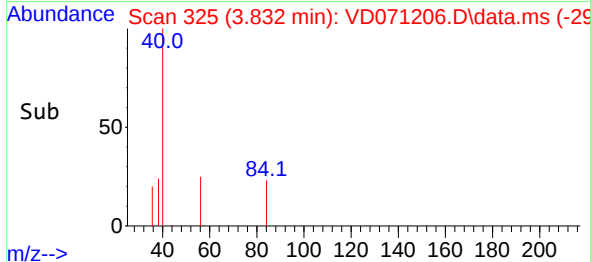
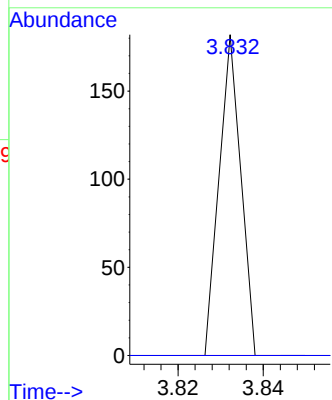


#13
Acrolein
Concen: 11.672 ug/l
RT: 3.832 min Scan# 31
Delta R.T. -0.094 min
Lab File: VD071206.D
Acq: 08 Dec 2021 15:31

Instrument :
MSVOA_D
ClientSampleId :

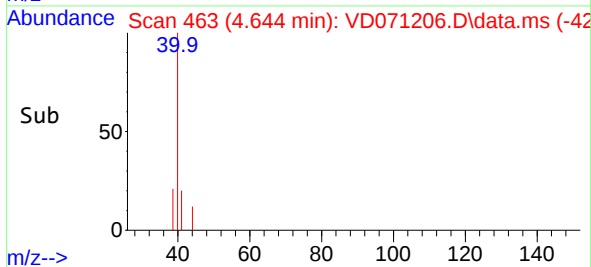
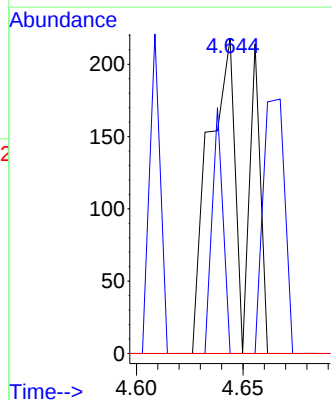
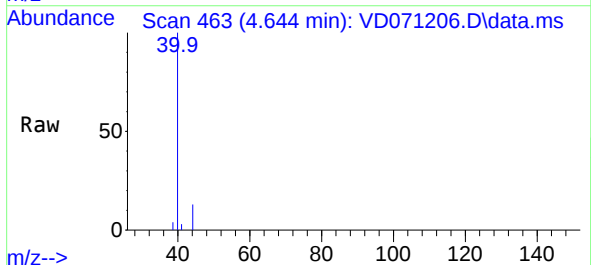


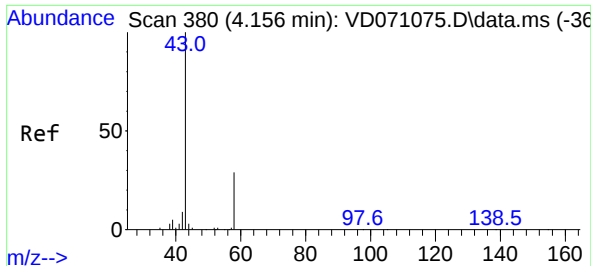
Tgt Ion: 56 Resp: 64
Ion Ratio Lower Upper
56 100
55 0.0 58.6 87.8#



#14
Allyl chloride
Concen: 2.165 ug/l
RT: 4.644 min Scan# 463
Delta R.T. -0.077 min
Lab File: VD071206.D
Acq: 08 Dec 2021 15:31

Tgt Ion: 41 Resp: 261
Ion Ratio Lower Upper
41 100
39 23.0 45.6 68.4#
76 0.0 30.2 45.4#

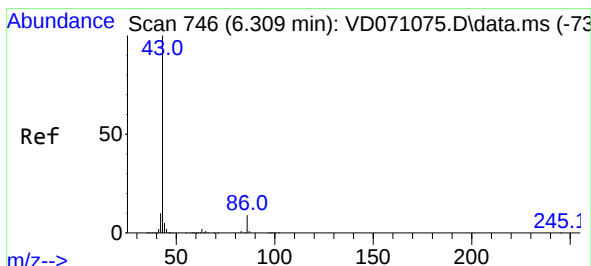
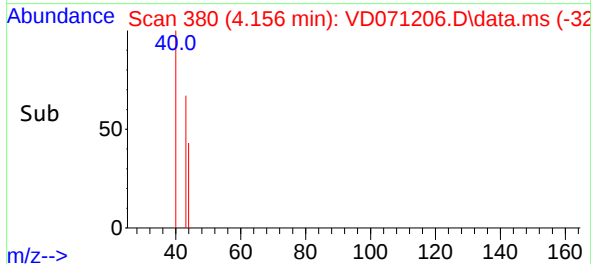
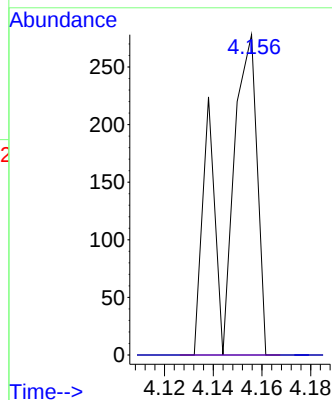
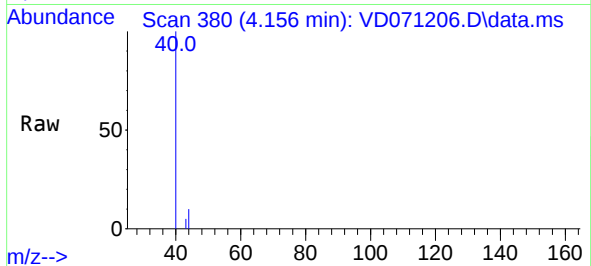




#16
Acetone
Concen: 41.290 ug/l
RT: 4.156 min Scan# 31
Delta R.T. -0.000 min
Lab File: VD071206.D
Acq: 08 Dec 2021 15:31

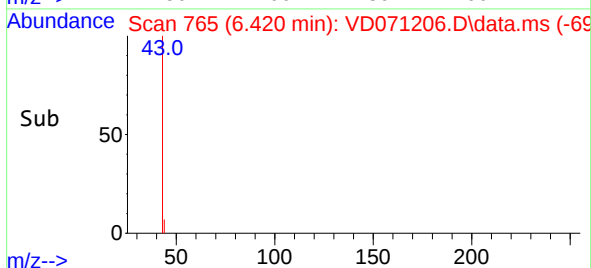
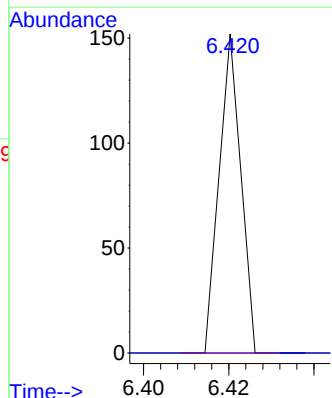
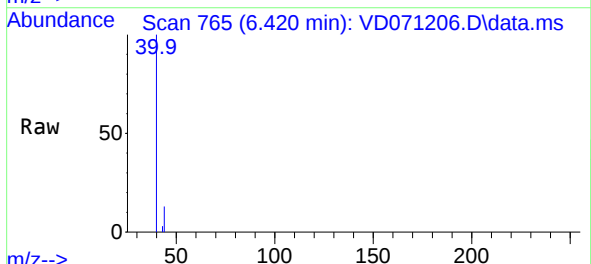
Instrument :
MSVOA_D
ClientSampleId :

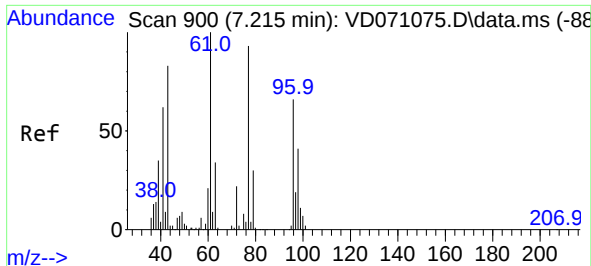
Tgt Ion: 43 Resp: 255
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#



#23
Vinyl Acetate
Concen: 27.587 ug/l
RT: 6.420 min Scan# 765
Delta R.T. 0.111 min
Lab File: VD071206.D
Acq: 08 Dec 2021 15:31

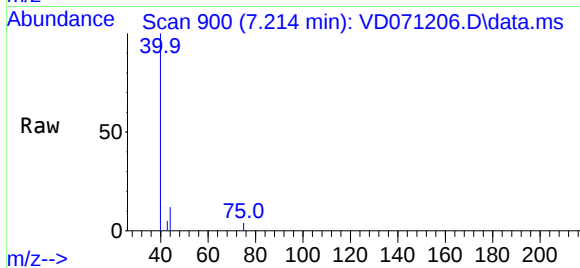
Tgt Ion: 43 Resp: 54
Ion Ratio Lower Upper
43 100
86 0.0 8.2 12.4#



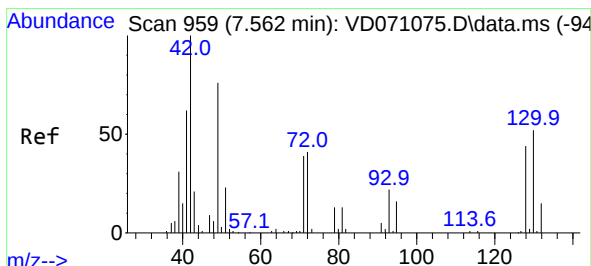
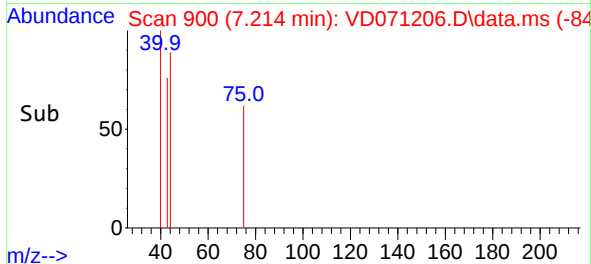
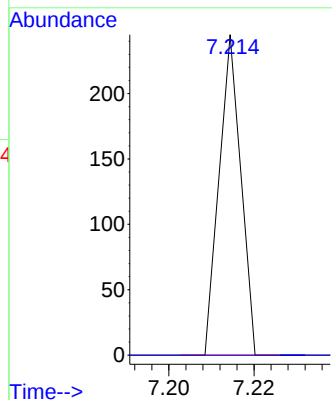


#25
2-Butanone
Concen: 31.457 ug/l
RT: 7.214 min Scan# 90
Delta R.T. -0.001 min
Lab File: VD071206.D
Acq: 08 Dec 2021 15:31

Instrument :
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ClientSampleId :

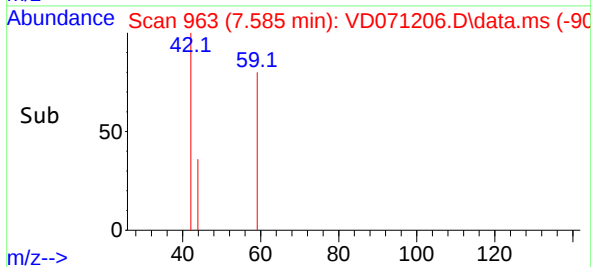
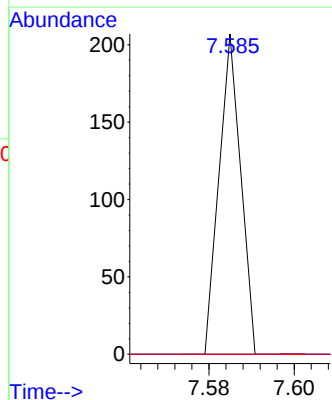
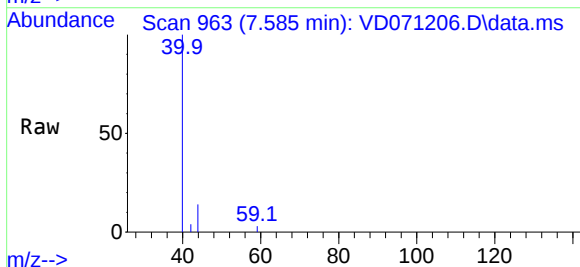


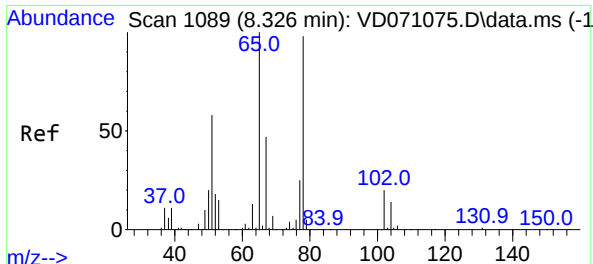
Tgt Ion: 43 Resp: 86
Ion Ratio Lower Upper
43 100
72 0.0 23.8 35.6#



#29
Tetrahydrofuran
Concen: 5.730 ug/l
RT: 7.585 min Scan# 963
Delta R.T. 0.023 min
Lab File: VD071206.D
Acq: 08 Dec 2021 15:31

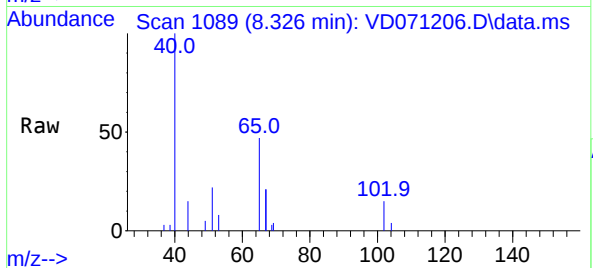
Tgt Ion: 42 Resp: 73
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 0.0 32.7 49.1#



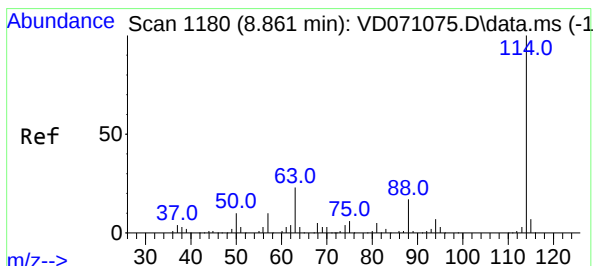
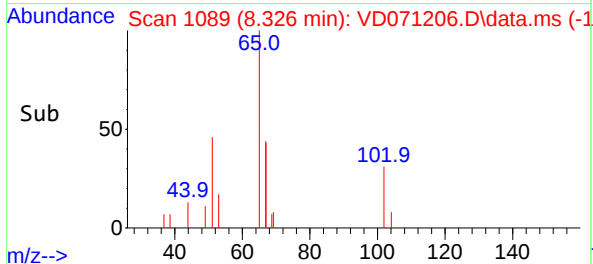
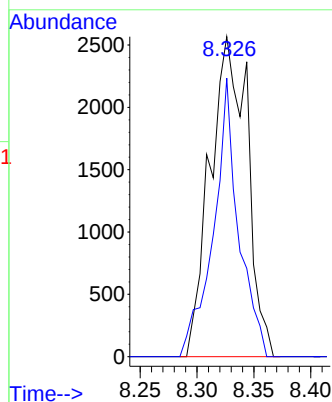


#33
1,2-Dichloroethane-d4
Concen: 73.147 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. 0.000 min
Lab File: VD071206.D
Acq: 08 Dec 2021 15:31

Instrument :
MSVOA_D
ClientSampleId :

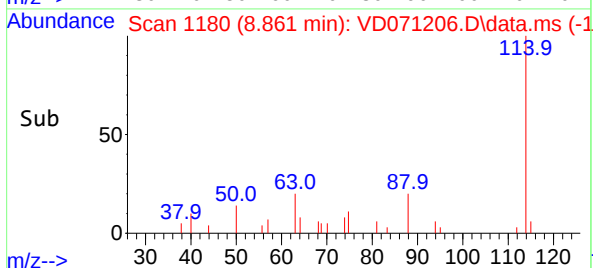
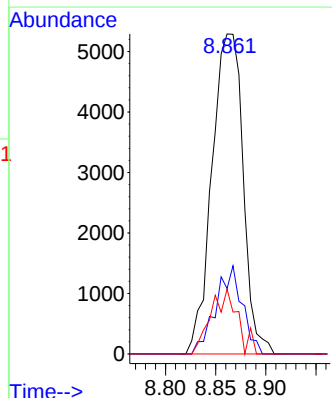
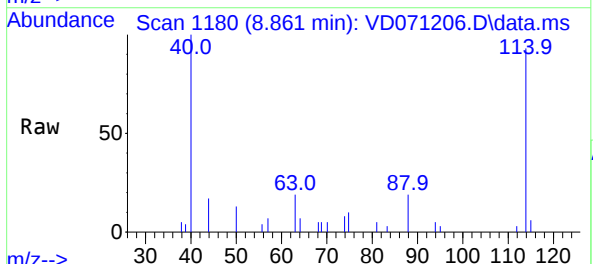


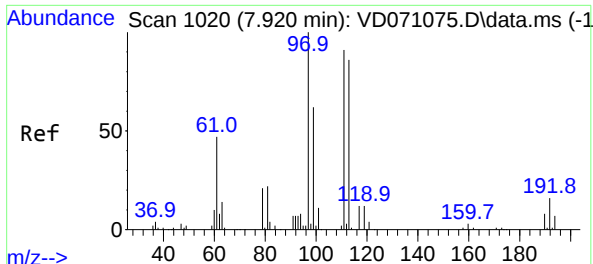
Tgt Ion: 65 Resp: 5869
Ion Ratio Lower Upper
65 100
67 58.5 0.0 112.2



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. 0.000 min
Lab File: VD071206.D
Acq: 08 Dec 2021 15:31

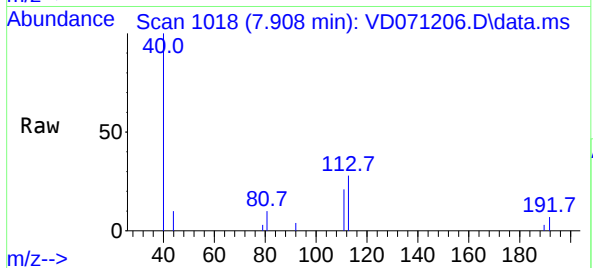
Tgt Ion: 114 Resp: 11432
Ion Ratio Lower Upper
114 100
63 20.4 0.0 41.8
88 20.2 0.0 32.8



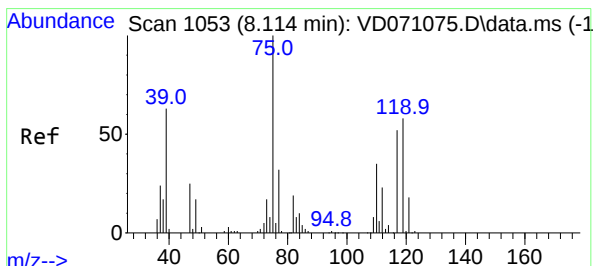
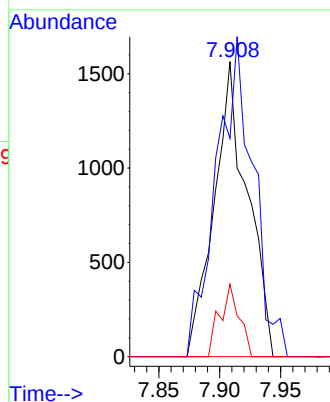
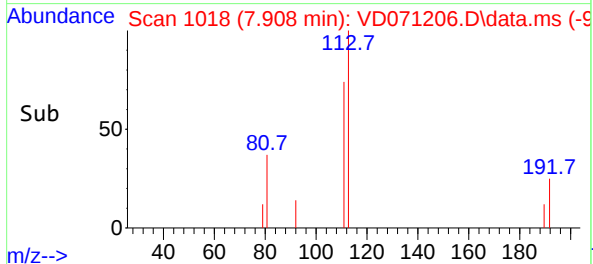


#35
Dibromofluoromethane
Concen: 40.867 ug/l
RT: 7.908 min Scan# 1018
Delta R.T. -0.012 min
Lab File: VD071206.D
Acq: 08 Dec 2021 15:31

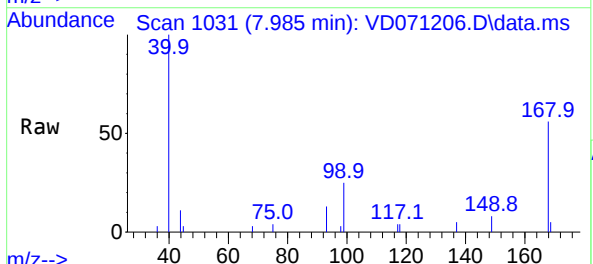
Instrument :
MSVOA_D
ClientSampleId :



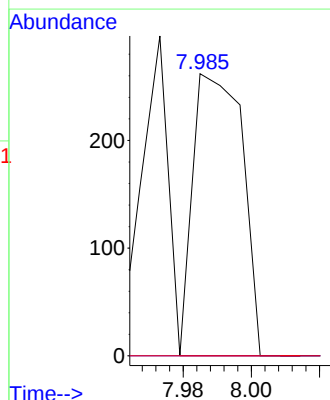
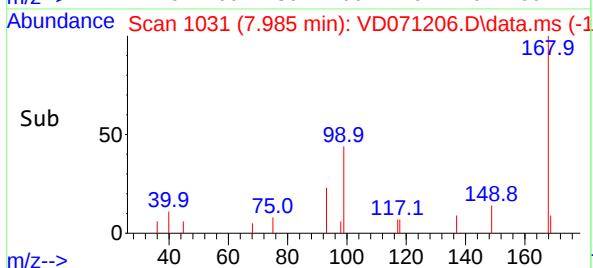
Tgt Ion:113 Resp: 2975
Ion Ratio Lower Upper
113 100
111 119.4 82.0 123.0
192 14.3 15.2 22.8#

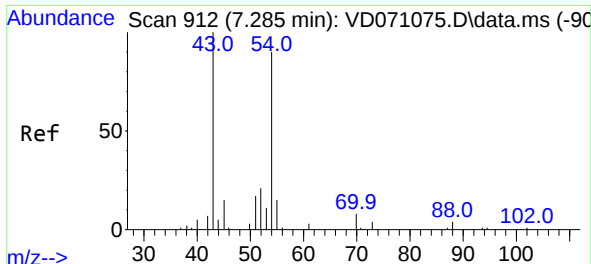


#36
1,1-Dichloropropene
Concen: 2.461 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. -0.129 min
Lab File: VD071206.D
Acq: 08 Dec 2021 15:31



Tgt Ion: 75 Resp: 263
Ion Ratio Lower Upper
75 100
110 0.0 17.8 53.4#
77 0.0 24.8 37.2#

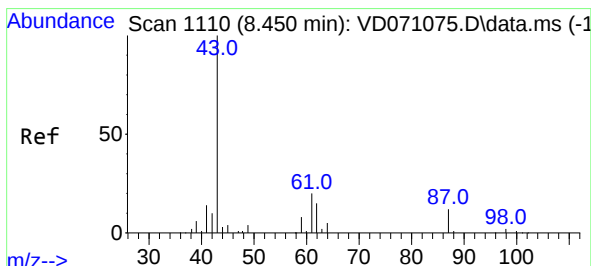
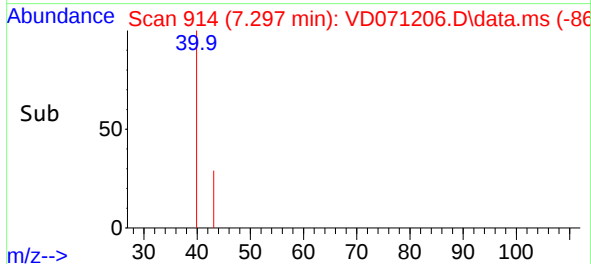
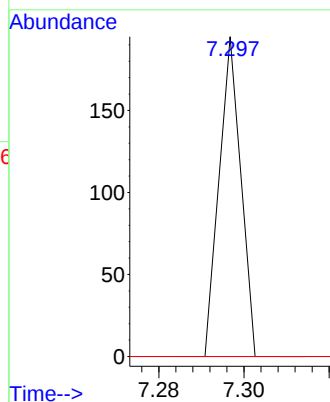
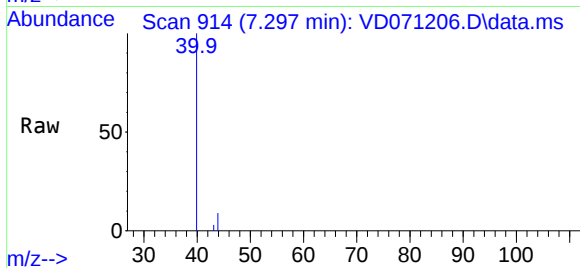




#37
Ethyl Acetate
Concen: 1.495 ug/l
RT: 7.297 min Scan# 912
Delta R.T. 0.012 min
Lab File: VD071206.D
Acq: 08 Dec 2021 15:31

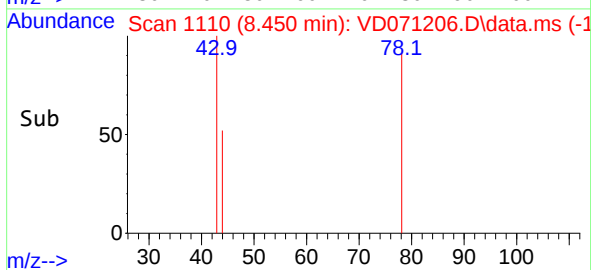
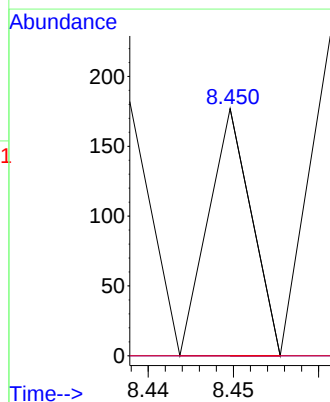
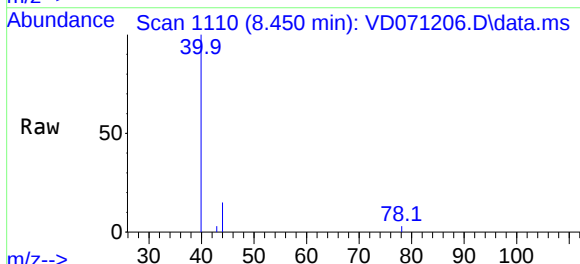
Instrument :
MSVOA_D
ClientSampleId :

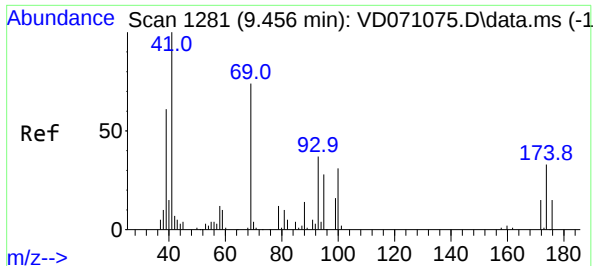
Tgt Ion: 43 Resp: 69
Ion Ratio Lower Upper
43 100
61 0.0 13.0 19.6#
70 0.0 8.7 13.1#



#43
Isopropyl Acetate
Concen: 5.770 ug/l
RT: 8.450 min Scan# 1110
Delta R.T. -0.000 min
Lab File: VD071206.D
Acq: 08 Dec 2021 15:31

Tgt Ion: 43 Resp: 62
Ion Ratio Lower Upper
43 100
61 0.0 28.2 42.4#
87 0.0 10.7 16.1#





#48

Methyl methacrylate

Concen: 1.306 ug/l

RT: 9.444 min Scan# 11

Delta R.T. -0.012 min

Lab File: VD071206.D

Acq: 08 Dec 2021 15:31

Instrument :

MSVOA_D

ClientSampleId :

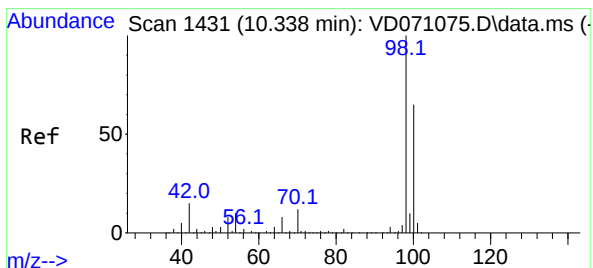
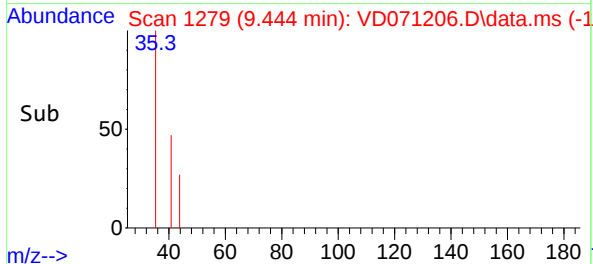
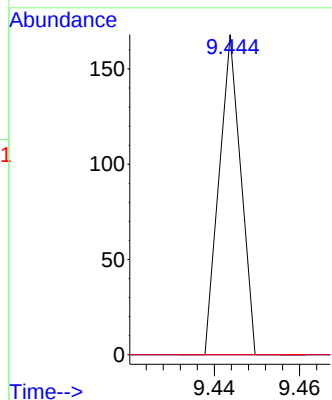
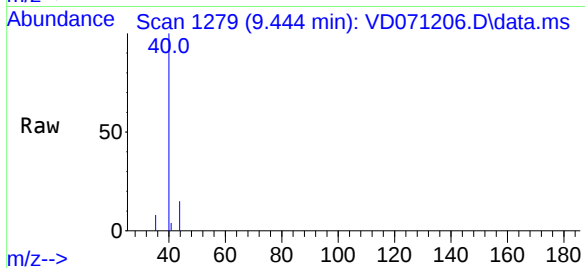
Tgt Ion: 41 Resp: 59

Ion Ratio Lower Upper

41 100

69 0.0 69.8 104.6#

39 0.0 35.6 53.4#



#50

Toluene-d8

Concen: 46.868 ug/l

RT: 10.338 min Scan# 1431

Delta R.T. -0.000 min

Lab File: VD071206.D

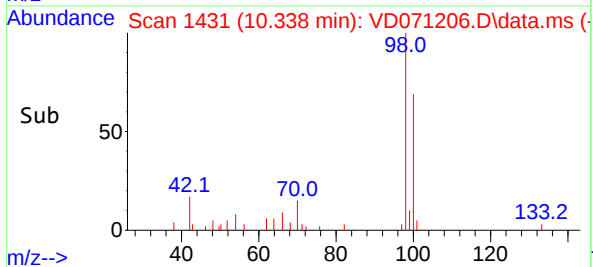
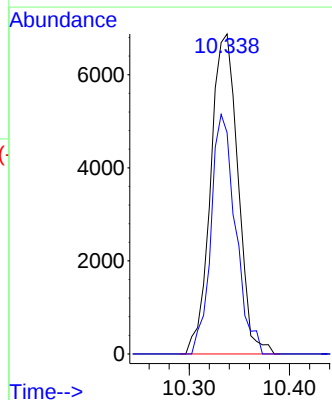
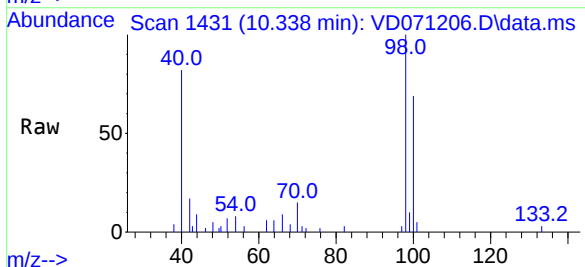
Acq: 08 Dec 2021 15:31

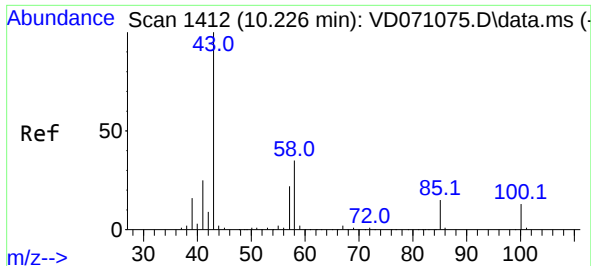
Tgt Ion: 98 Resp: 12984

Ion Ratio Lower Upper

98 100

100 67.3 51.8 77.6

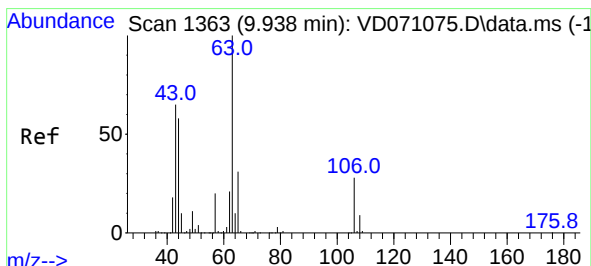
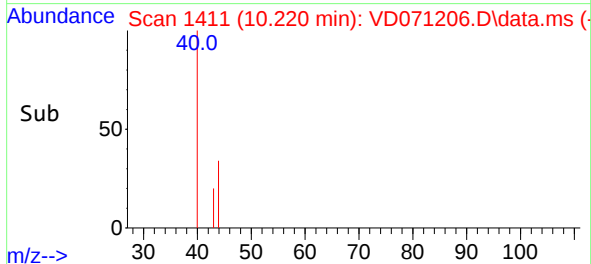
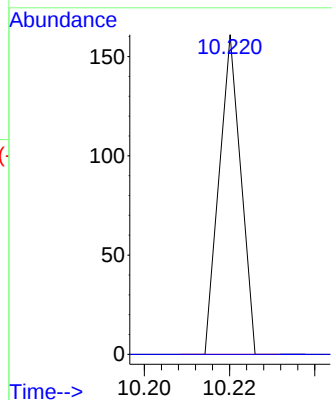
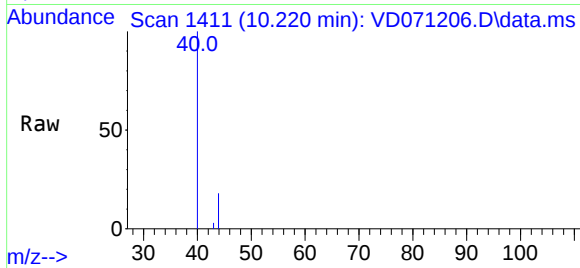




#51
4-Methyl-2-Pentanone
Concen: 31.613 ug/l
RT: 10.220 min Scan# 1412
Delta R.T. -0.006 min
Lab File: VD071206.D
Acq: 08 Dec 2021 15:31

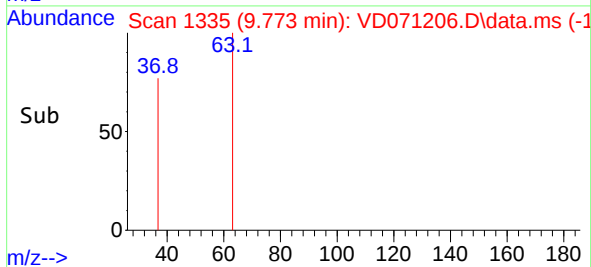
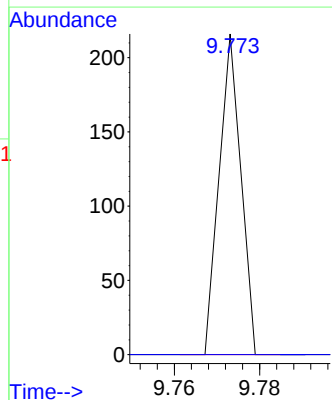
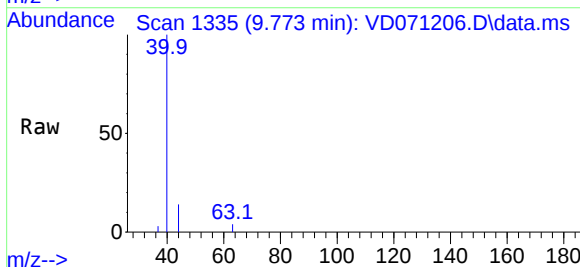
Instrument :
MSVOA_D
ClientSampleId :

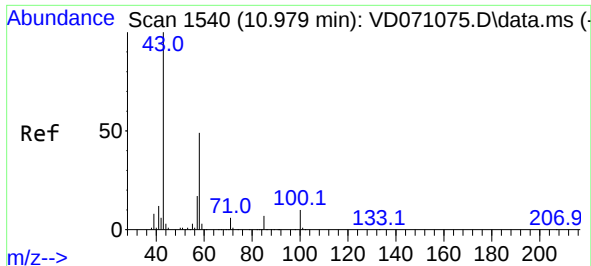
Tgt Ion: 43 Resp: 57
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#



#58
2-Chloroethyl Vinyl ether
Concen: 2.150 ug/l
RT: 9.773 min Scan# 1335
Delta R.T. -0.165 min
Lab File: VD071206.D
Acq: 08 Dec 2021 15:31

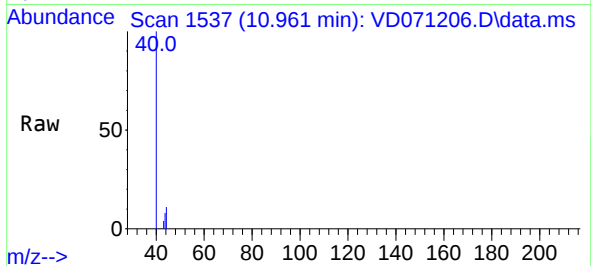
Tgt Ion: 63 Resp: 76
Ion Ratio Lower Upper
63 100
106 0.0 21.0 31.4#



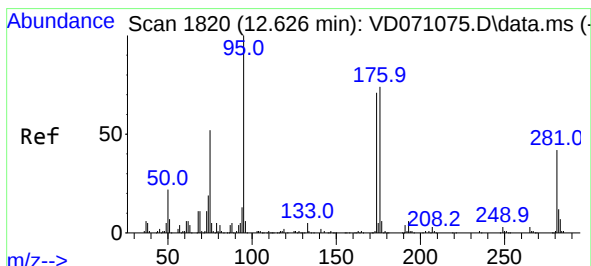
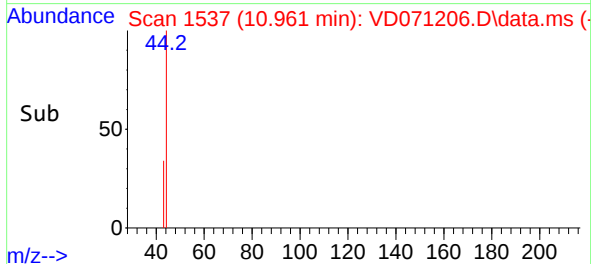
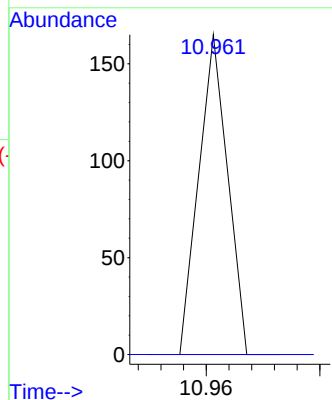


#59
2-Hexanone
Concen: 35.848 ug/l
RT: 10.961 min Scan# 11
Delta R.T. -0.018 min
Lab File: VD071206.D
Acq: 08 Dec 2021 15:31

Instrument :
MSVOA_D
ClientSampleId :

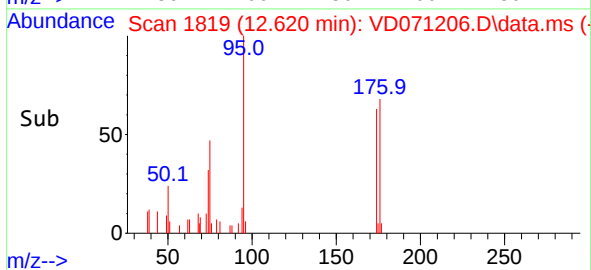
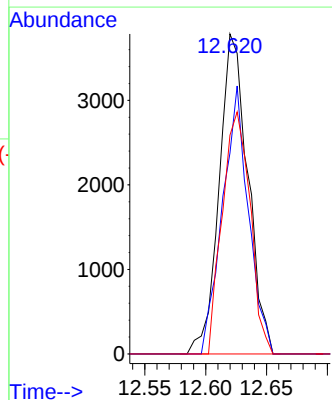
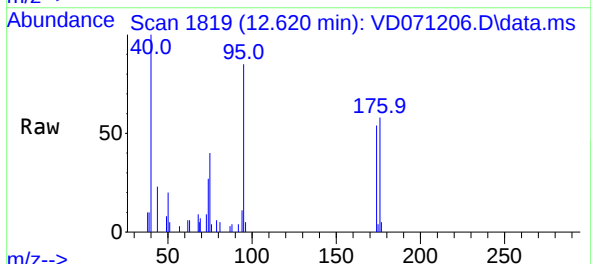


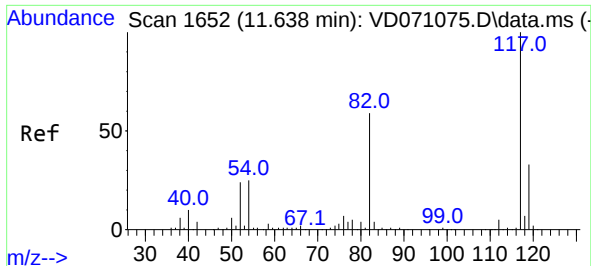
Tgt Ion: 43 Resp: 58
Ion Ratio Lower Upper
43 100
58 0.0 28.7 86.1#



#62
4-Bromofluorobenzene
Concen: 64.636 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD071206.D
Acq: 08 Dec 2021 15:31

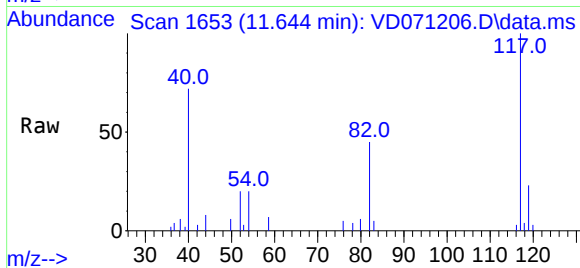
Tgt Ion: 95 Resp: 6207
Ion Ratio Lower Upper
95 100
174 75.7 0.0 159.4
176 73.2 0.0 154.0



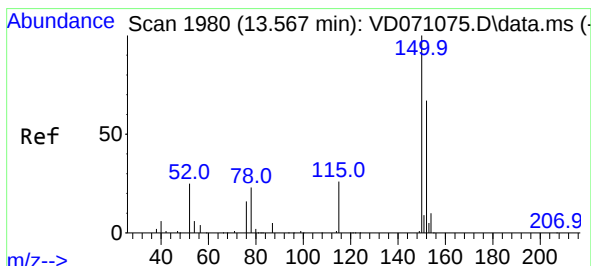
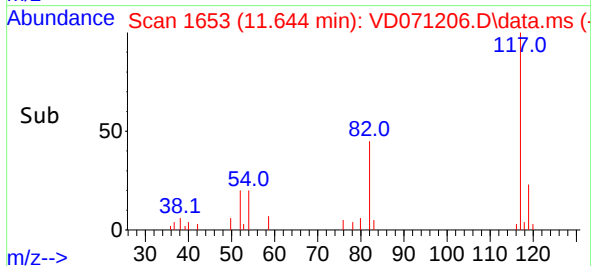
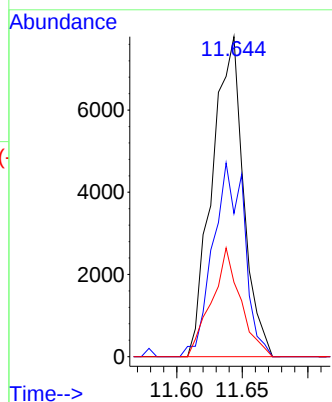


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.644 min Scan# 117
Delta R.T. 0.006 min
Lab File: VD071206.D
Acq: 08 Dec 2021 15:31

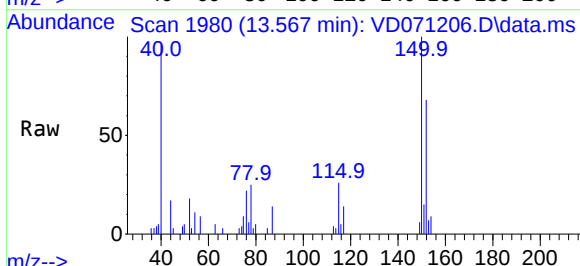
Instrument :
MSVOA_D
ClientSampleId :



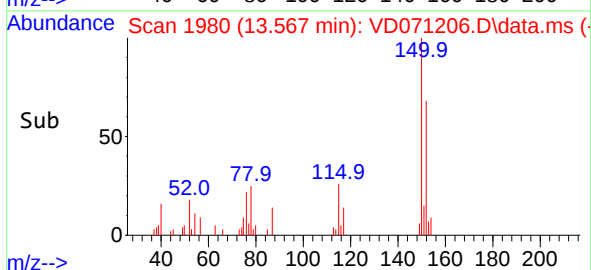
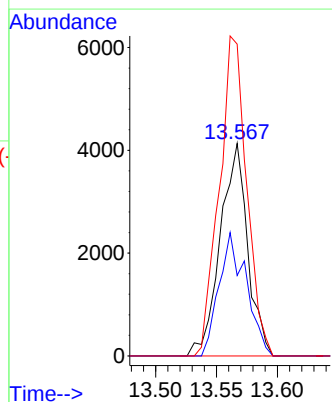
Tgt Ion:117 Resp: 12942
Ion Ratio Lower Upper
117 100
82 44.7 44.7 67.1
119 23.2 26.2 39.4#

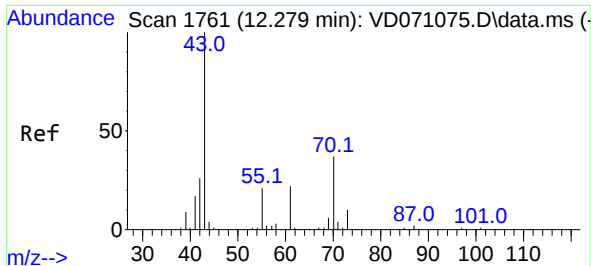


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. -0.000 min
Lab File: VD071206.D
Acq: 08 Dec 2021 15:31



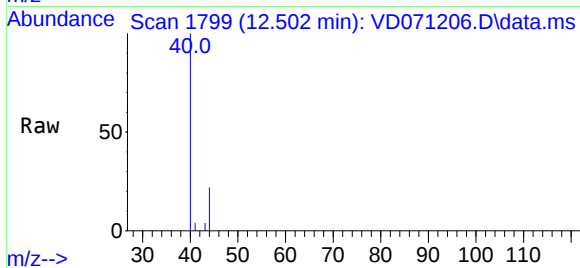
Tgt Ion:152 Resp: 6476
Ion Ratio Lower Upper
152 100
115 57.7 29.8 89.3
150 151.0 0.0 349.2





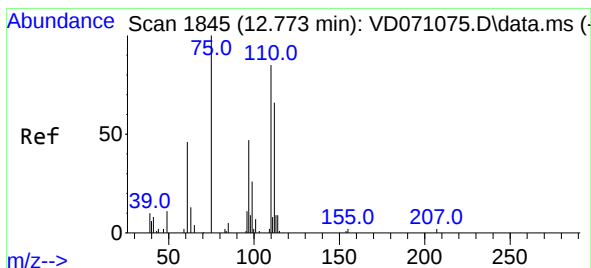
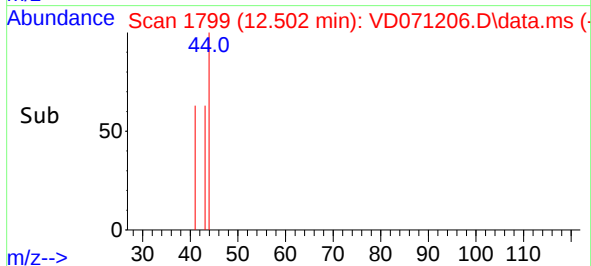
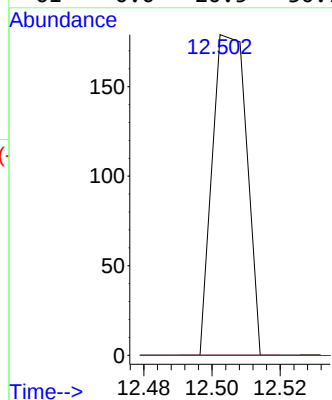
#74
N-amy1 acetate
Concen: 6.564 ug/l
RT: 12.502 min Scan# 1799
Delta R.T. 0.223 min
Lab File: VD071206.D
Acq: 08 Dec 2021 15:31

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion: 43 Resp: 125

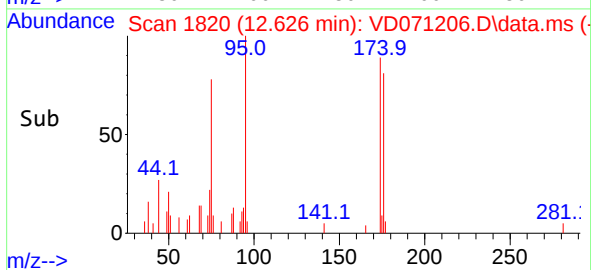
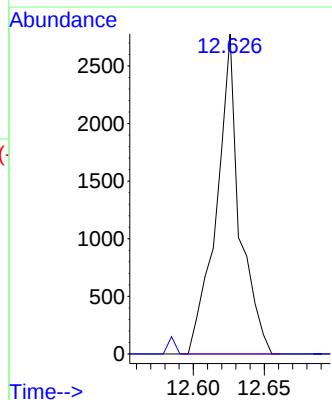
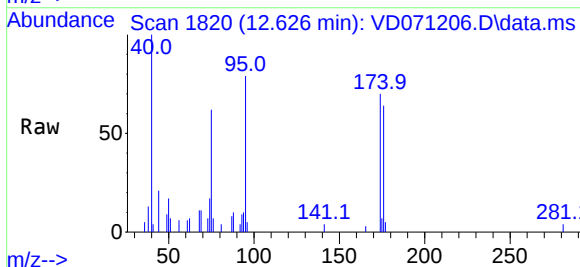
Ion	Ratio	Lower	Upper
43	100		
70	0.0	36.6	55.0#
55	0.0	22.5	33.7#
61	0.0	20.5	30.7#

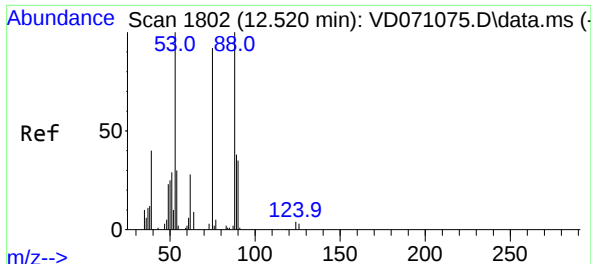


#76
1,2,3-Trichloropropane
Concen: 51.021 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD071206.D
Acq: 08 Dec 2021 15:31

Tgt Ion: 75 Resp: 3148

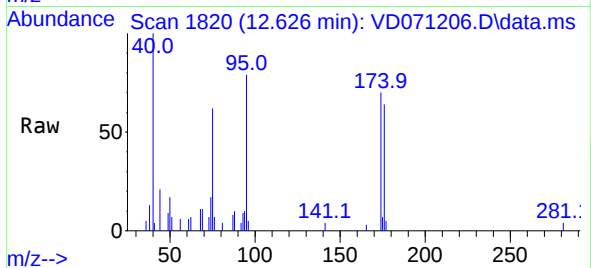
Ion	Ratio	Lower	Upper
75	100		
77	0.0	158.4	475.3#



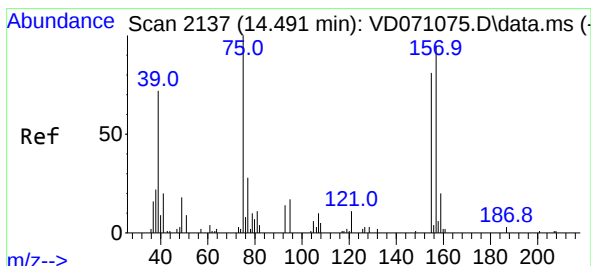
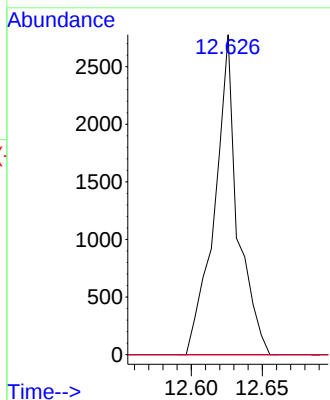
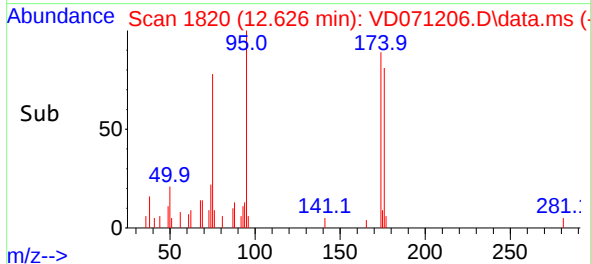


#81
trans-1,4-Dichloro-2-butene
Concen: 111.327 ug/l
RT: 12.626 min Scan# 1802
Delta R.T. 0.106 min
Lab File: VD071206.D
Acq: 08 Dec 2021 15:31

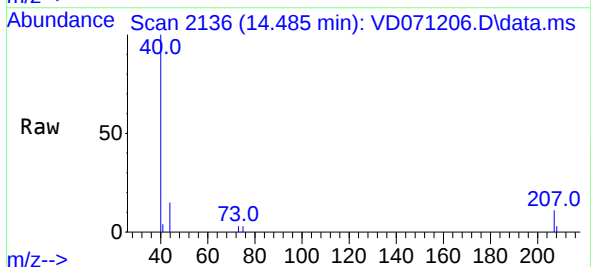
Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion: 75 Resp: 3148
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: 4.930 ug/l
RT: 14.485 min Scan# 2136
Delta R.T. -0.006 min
Lab File: VD071206.D
Acq: 08 Dec 2021 15:31



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#

