

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD120721\
 Data File : VD071183.D
 Acq On : 07 Dec 2021 15:08
 Operator : VA/SY
 Sample : M4959-07
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 08 02:50:02 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)

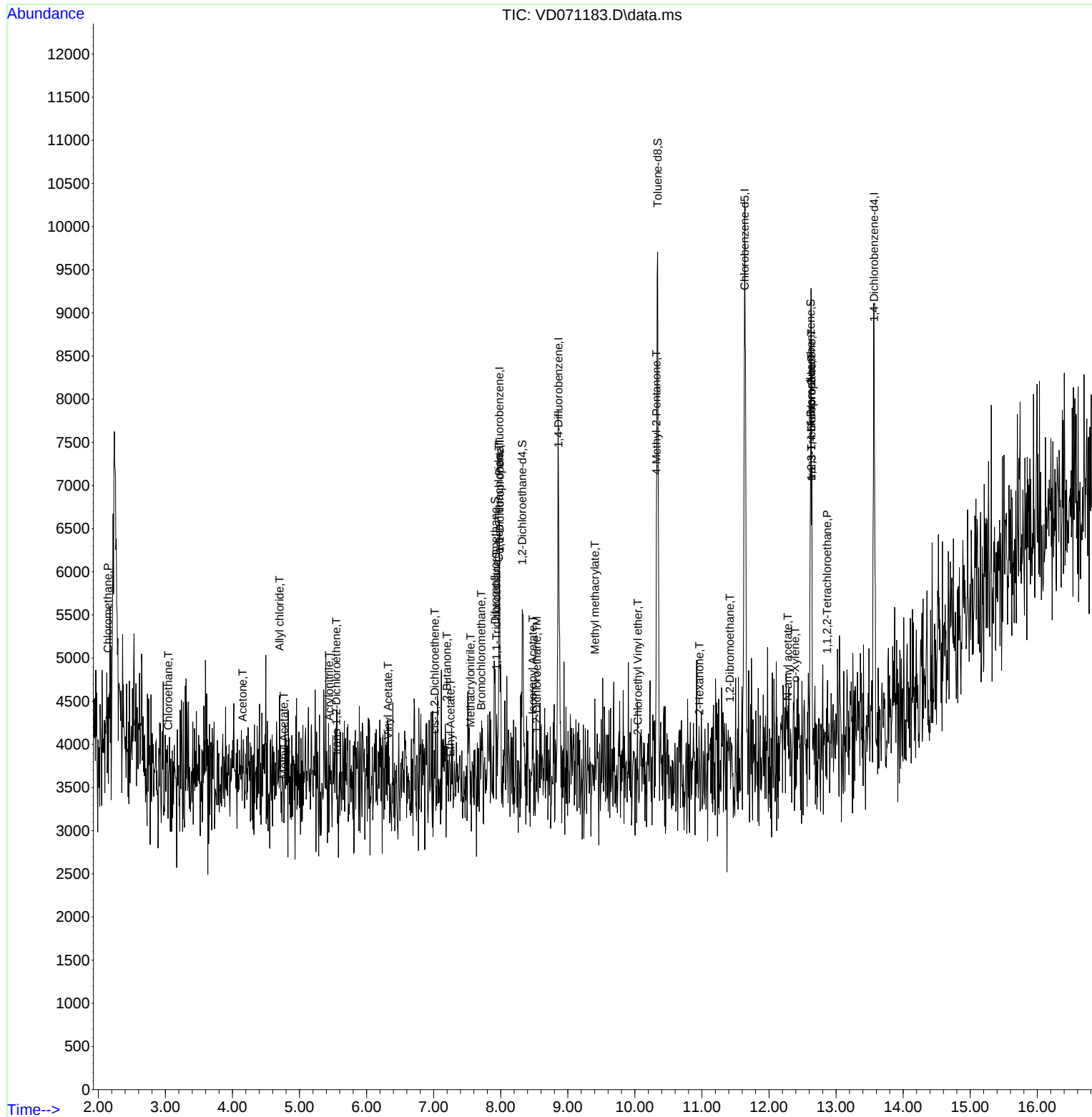
Internal Standards						
1) Pentafluorobenzene	7.979	168	2006	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	3445	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	3334	50.00	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	1149	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.320	65	1548	65.77	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	131.54%		
35) Dibromofluoromethane	7.914	113	1119	51.01	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	102.02%		
50) Toluene-d8	10.338	98	4211	50.44	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	100.88%		
62) 4-Bromofluorobenzene	12.620	95	1760	60.82	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	121.64%		
Target Compounds					Qvalue	
3) Chloromethane	2.144	50	66	2.92	ug/l #	42
6) Chloroethane	3.044	64	55	3.17	ug/l #	39
14) Allyl chloride	4.703	41	224	6.33	ug/l #	28
15) Acrylonitrile	5.444	53	78	17.30	ug/l #	19
16) Acetone	4.150	43	68	40.34	ug/l #	40
18) Methyl Acetate	4.767	43	81	4.66	ug/l #	51
20) Methylene Chloride	4.956	84	99	Below Cal	#	7
21) trans-1,2-Dichloroethene	5.550	96	82	3.91	ug/l #	1
23) Vinyl Acetate	6.320	43	56	28.52	ug/l #	72
25) 2-Butanone	7.197	43	55	35.11	ug/l #	45
27) cis-1,2-Dichloroethene	7.014	96	59	2.49	ug/l #	1
28) Bromochloromethane	7.708	49	54	3.05	ug/l #	14
32) 1,1,1-Trichloroethane	7.938	97	61	1.66	ug/l #	25
36) 1,1-Dichloropropene	7.985	75	208	6.46	ug/l #	41
37) Ethyl Acetate	7.250	43	66	4.75	ug/l #	66
38) Carbon Tetrachloride	7.973	117	126	3.97	ug/l #	12
41) Methacrylonitrile	7.550	41	59	4.53	ug/l #	37
42) 1,2-Dichloroethane	8.538	62	60	2.25	ug/l #	71
43) Isopropyl Acetate	8.479	43	60	6.98	ug/l #	47
48) Methyl methacrylate	9.402	41	67	4.92	ug/l #	1
51) 4-Methyl-2-Pentanone	10.320	43	81	35.18	ug/l #	56
58) 2-Chloroethyl Vinyl ether	10.044	63	75	7.04	ug/l #	49
59) 2-Hexanone	10.961	43	55	38.58	ug/l #	22
61) 1,2-Dibromoethane	11.414	107	67	4.46	ug/l #	3
69) o-Xylene	12.391	106	54	1.31	ug/l #	1
74) N-amyl acetate	12.279	43	112	10.06	ug/l #	40
75) 1,1,2,2-Tetrachloroethane	12.867	83	54	3.94	ug/l #	25
76) 1,2,3-Trichloropropane	12.632	75	925	84.50	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.632	75	925	180.58	ug/l #	18

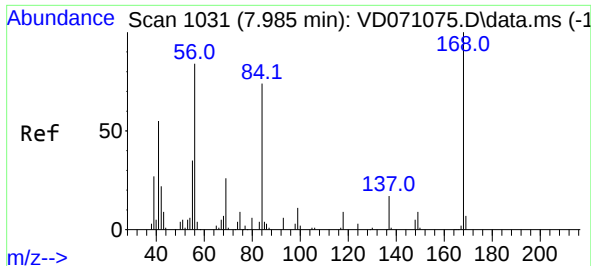
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 1 Sample Multiplier: 1

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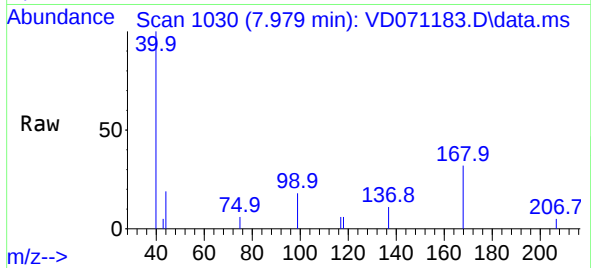
Quant Time: Dec 08 02:50:02 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D112921S.M
Quant Title : SW846 8260
QLast Update : Mon Nov 29 17:54:09 2021
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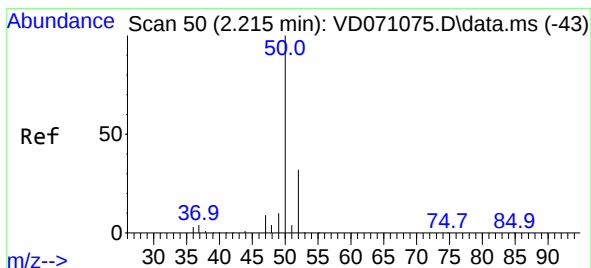
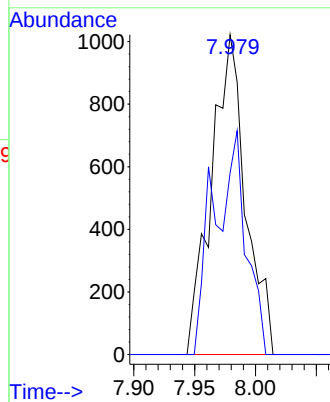
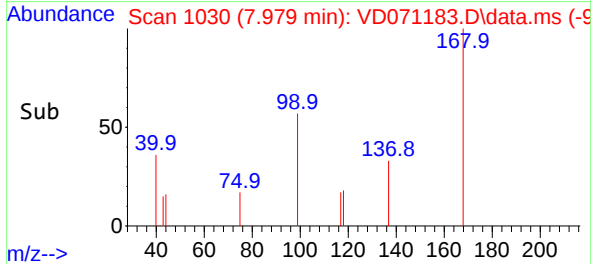


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.979 min Scan# 10
Delta R.T. -0.006 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Instrument :
MSVOA_D
ClientSampleId :

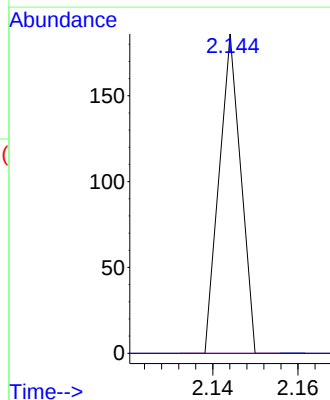
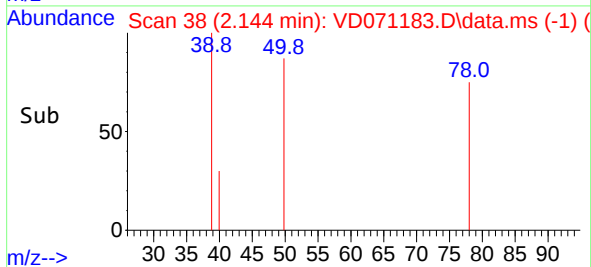
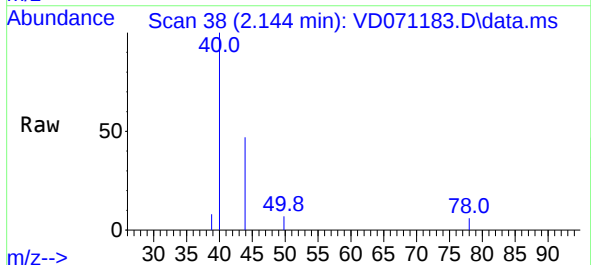


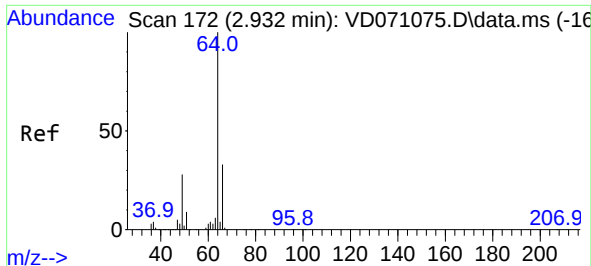
Tgt Ion:168 Resp: 2006
Ion Ratio Lower Upper
168 100
99 56.8 46.6 69.8



#3
Chloromethane
Concen: 2.92 ug/l
RT: 2.144 min Scan# 38
Delta R.T. -0.071 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

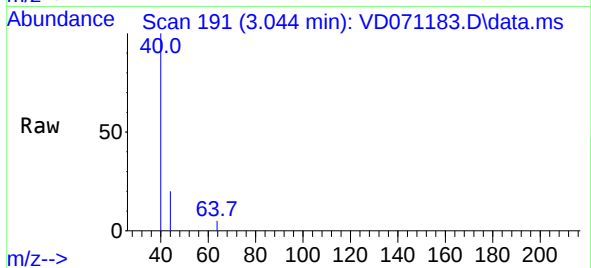
Tgt Ion: 50 Resp: 66
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.8#



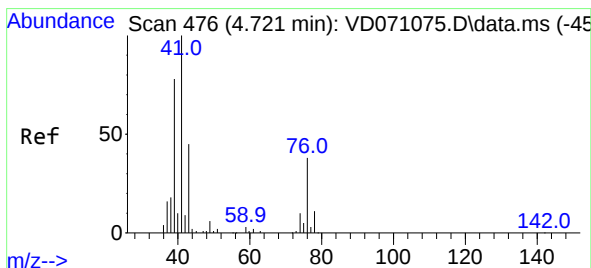
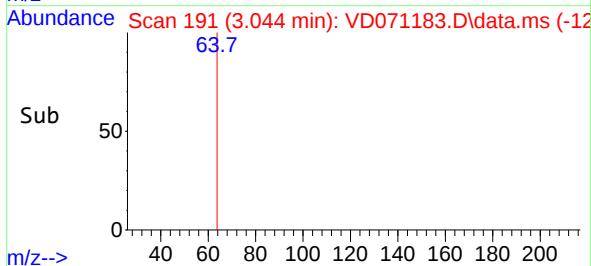
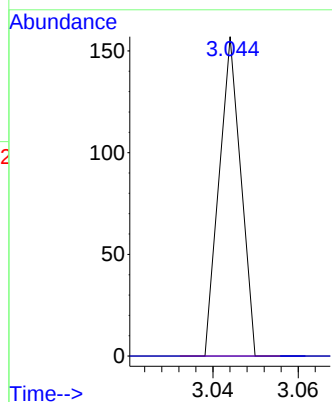


#6
Chloroethane
Concen: 3.17 ug/l
RT: 3.044 min Scan# 11
Delta R.T. 0.112 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Instrument :
MSVOA_D
ClientSampleId :

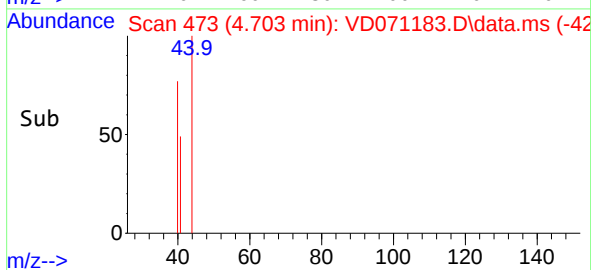
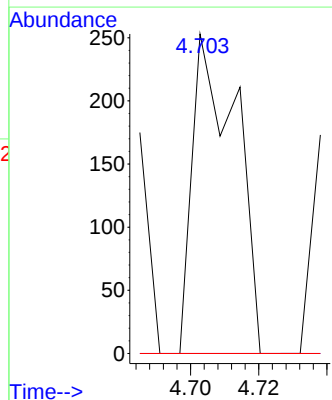
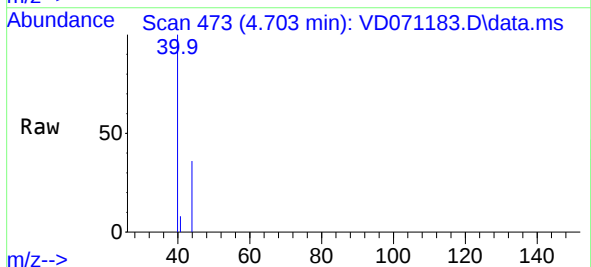


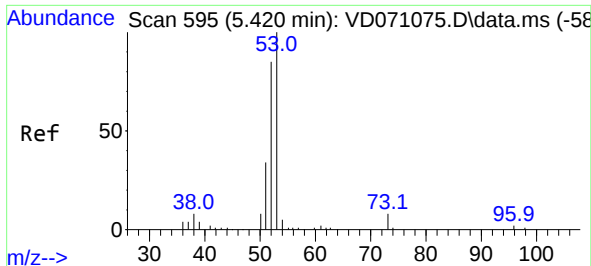
Tgt Ion: 64 Resp: 55
Ion Ratio Lower Upper
64 100
66 0.0 29.0 43.4#



#14
Allyl chloride
Concen: 6.33 ug/l
RT: 4.703 min Scan# 473
Delta R.T. -0.018 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

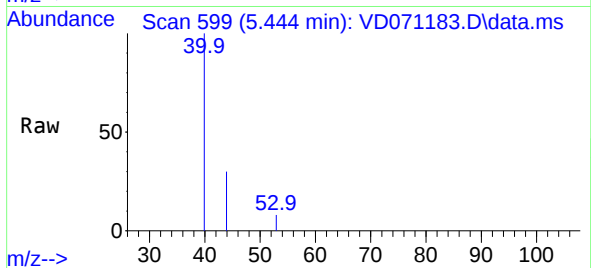
Tgt Ion: 41 Resp: 224
Ion Ratio Lower Upper
41 100
39 0.0 45.6 68.4#
76 0.0 30.2 45.4#



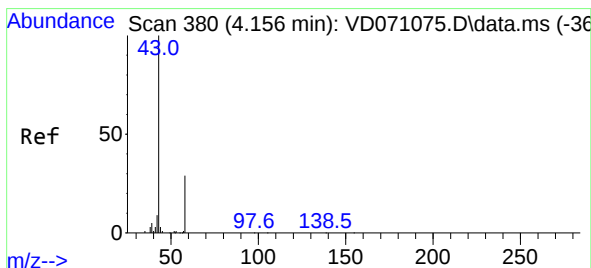
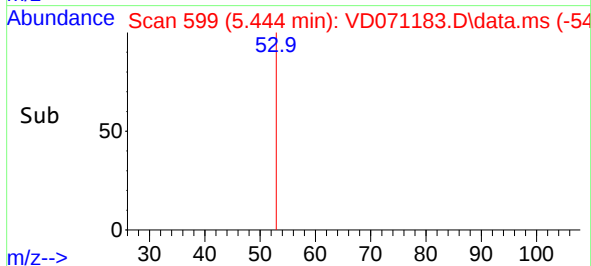
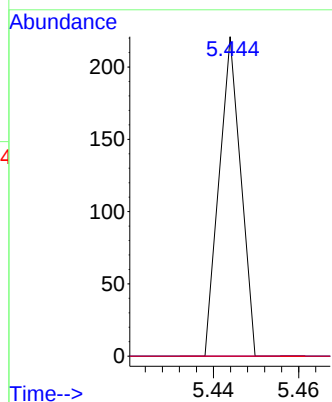


#15
Acrylonitrile
Concen: 17.30 ug/l
RT: 5.444 min Scan# 595
Delta R.T. 0.024 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Instrument :
MSVOA_D
ClientSampleId :

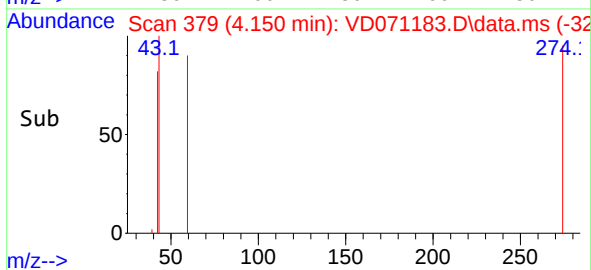
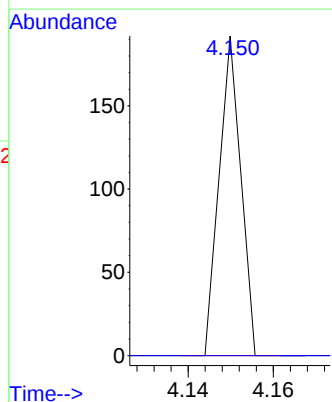
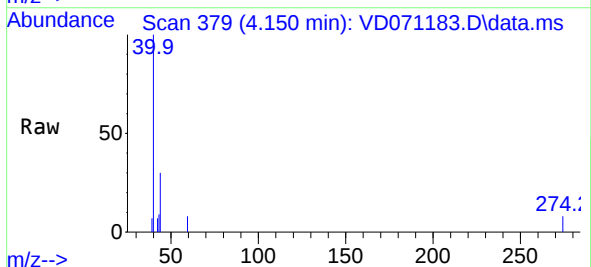


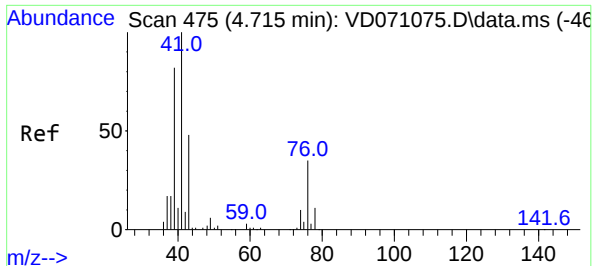
Tgt Ion: 53 Resp: 78
Ion Ratio Lower Upper
53 100
52 0.0 63.8 95.8#
51 0.0 28.5 42.7#



#16
Acetone
Concen: 40.34 ug/l
RT: 4.150 min Scan# 379
Delta R.T. -0.006 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

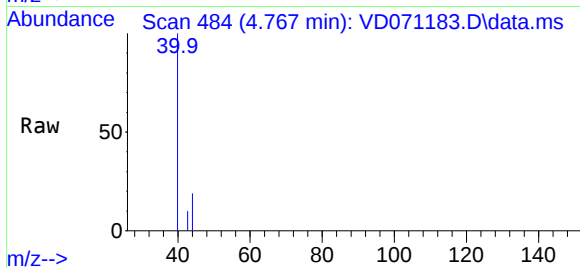
Tgt Ion: 43 Resp: 68
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#



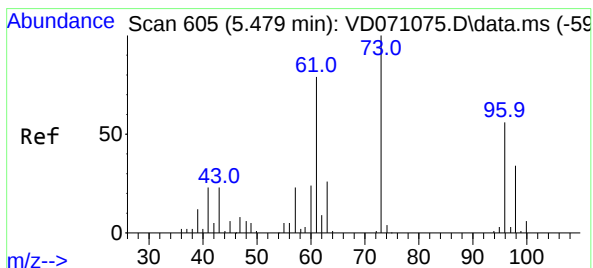
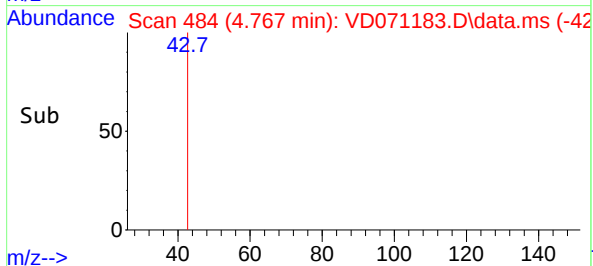
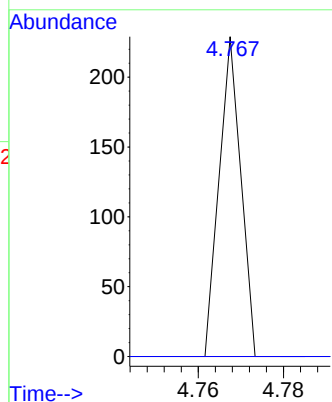


#18
Methyl Acetate
Concen: 4.66 ug/l
RT: 4.767 min Scan# 41
Delta R.T. 0.052 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Instrument :
MSVOA_D
ClientSampleId :

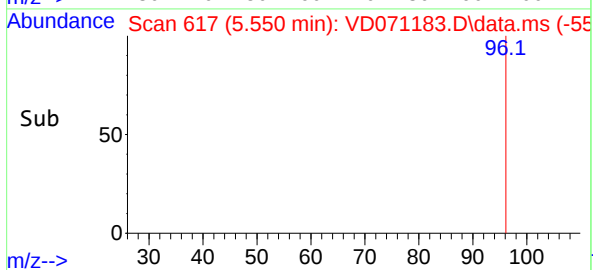
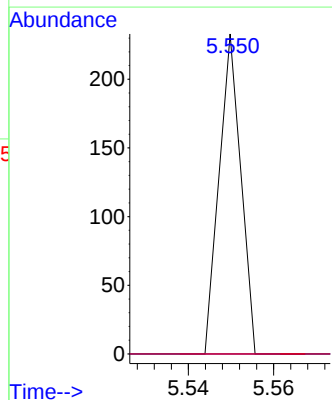
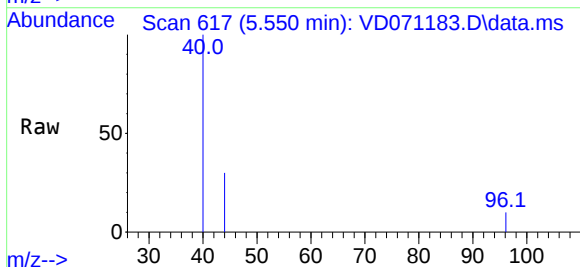


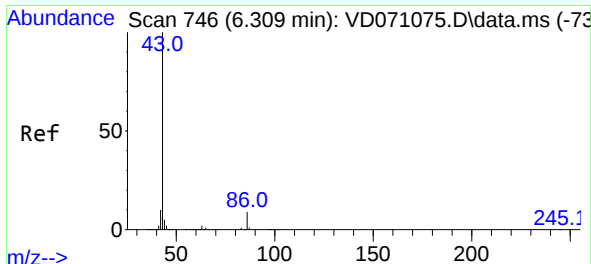
Tgt Ion: 43 Resp: 81
Ion Ratio Lower Upper
43 100
74 0.0 19.3 28.9#



#21
trans-1,2-Dichloroethene
Concen: 3.91 ug/l
RT: 5.550 min Scan# 617
Delta R.T. 0.071 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Tgt Ion: 96 Resp: 82
Ion Ratio Lower Upper
96 100
61 0.0 102.1 153.1#
98 0.0 50.1 75.1#

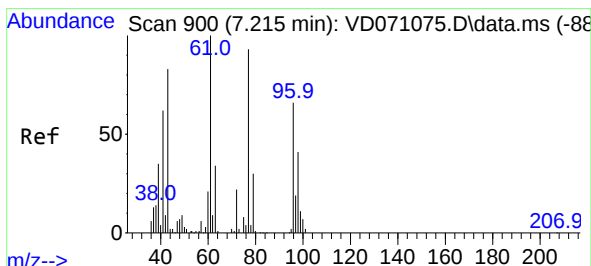
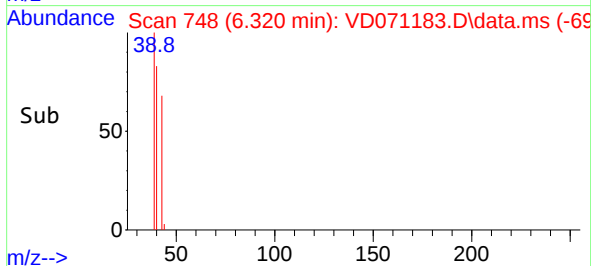
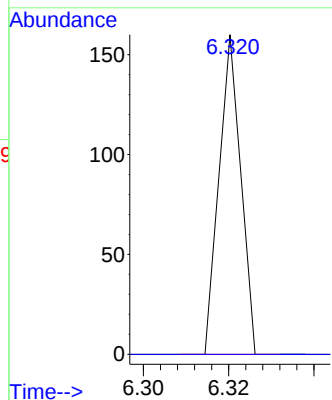
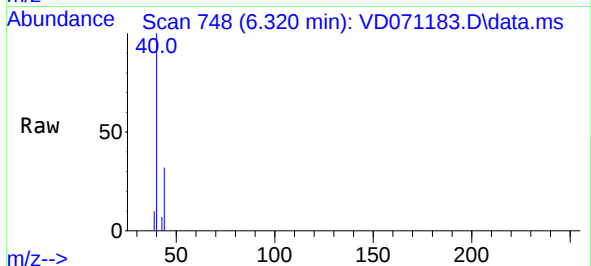




#23
 Vinyl Acetate
 Concen: 28.52 ug/l
 RT: 6.320 min Scan# 746
 Delta R.T. 0.011 min
 Lab File: VD071183.D
 Acq: 07 Dec 2021 15:08

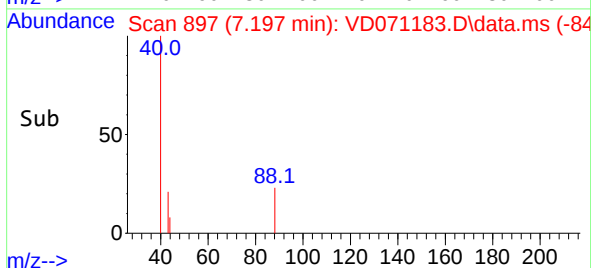
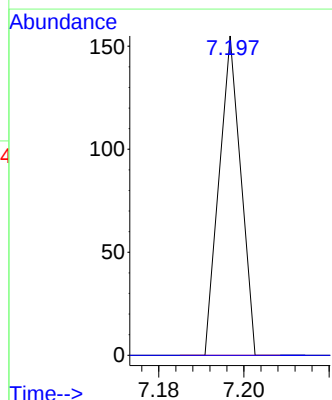
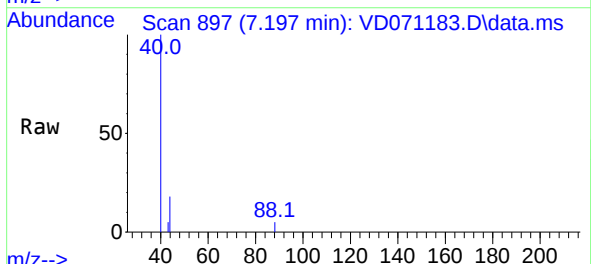
Instrument :
 MSVOA_D
 ClientSampleId :

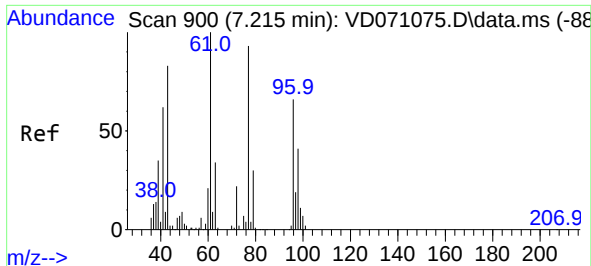
Tgt Ion: 43 Resp: 56
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.2 12.4#



#25
 2-Butanone
 Concen: 35.11 ug/l
 RT: 7.197 min Scan# 897
 Delta R.T. -0.018 min
 Lab File: VD071183.D
 Acq: 07 Dec 2021 15:08

Tgt Ion: 43 Resp: 55
 Ion Ratio Lower Upper
 43 100
 72 0.0 23.8 35.6#





#27

cis-1,2-Dichloroethene

Concen: 2.49 ug/l

RT: 7.014 min Scan# 80

Delta R.T. -0.201 min

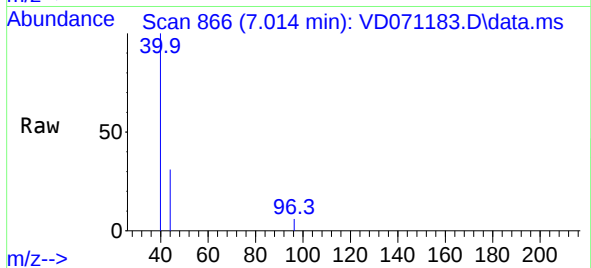
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Acq: 07 Dec 2021 15:08

Instrument :

MSVOA_D

ClientSampleId :



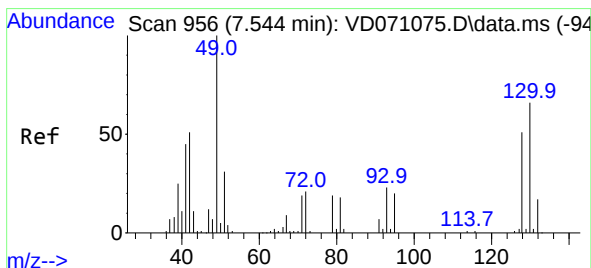
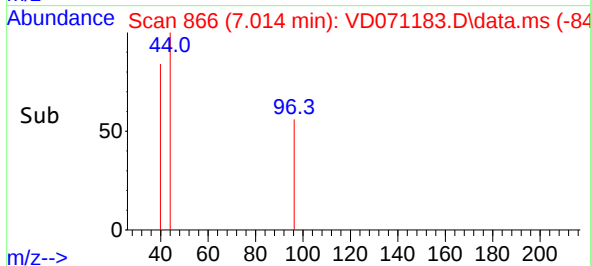
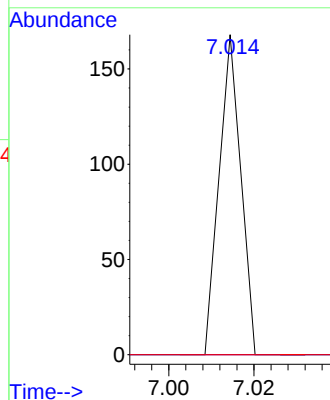
Tgt Ion: 96 Resp: 59

Ion Ratio Lower Upper

96 100

61 0.0 0.0 288.6

98 0.0 0.0 129.2



#28

Bromochloromethane

Concen: 3.05 ug/l

RT: 7.708 min Scan# 984

Delta R.T. 0.164 min

Lab File: VD071183.D

Acq: 07 Dec 2021 15:08

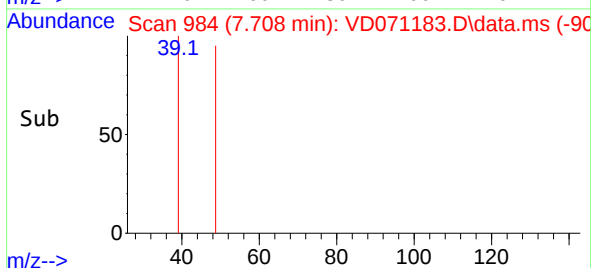
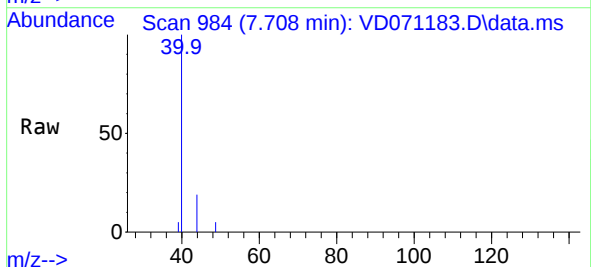
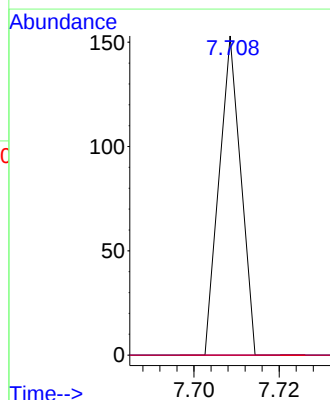
Tgt Ion: 49 Resp: 54

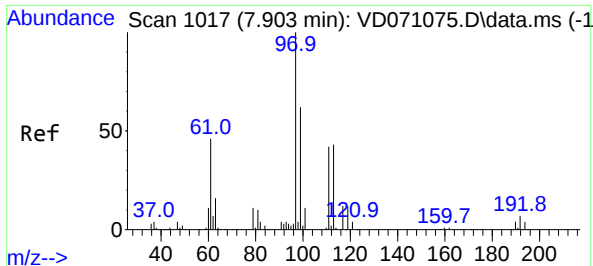
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.0

130 0.0 60.2 90.2#

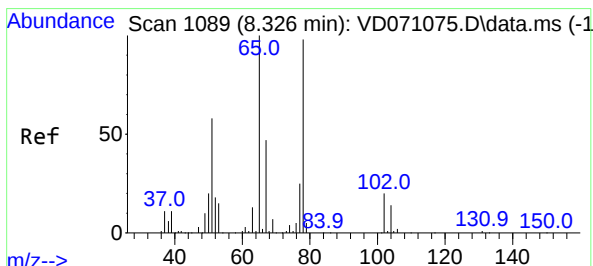
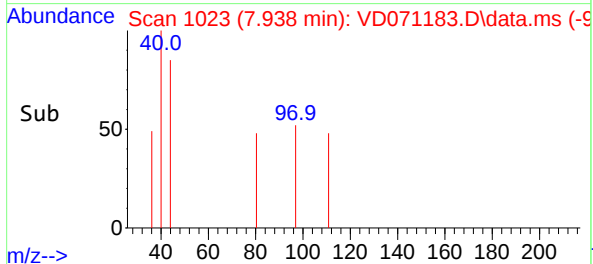
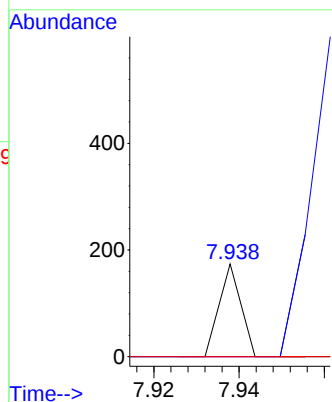
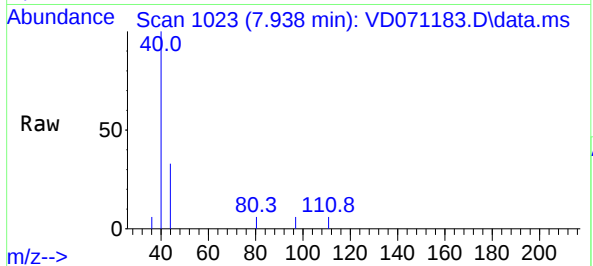




#32
1,1,1-Trichloroethane
Concen: 1.66 ug/l
RT: 7.938 min Scan# 1017
Delta R.T. 0.035 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

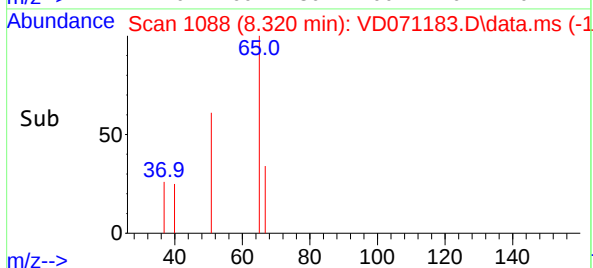
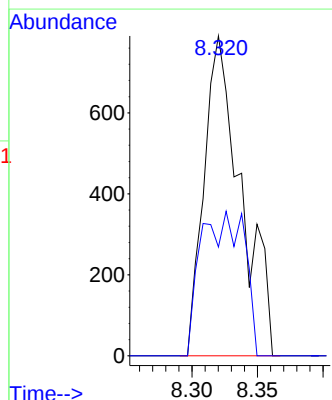
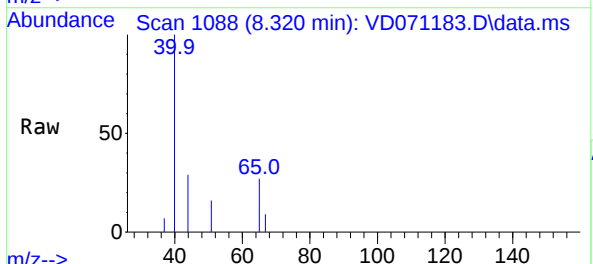
Instrument :
MSVOA_D
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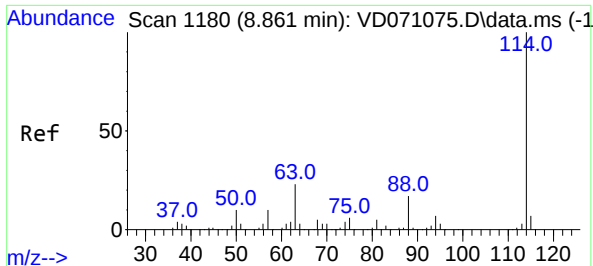
Tgt Ion:	97	Resp:	61
Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.3	75.5#
61	0.0	33.0	49.4#



#33
1,2-Dichloroethane-d4
Concen: 65.77 ug/l
RT: 8.320 min Scan# 1088
Delta R.T. -0.006 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Tgt Ion:	65	Resp:	1548
Ion	Ratio	Lower	Upper
65	100		
67	25.8	0.0	112.2

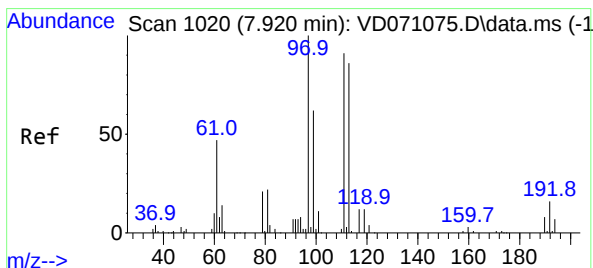
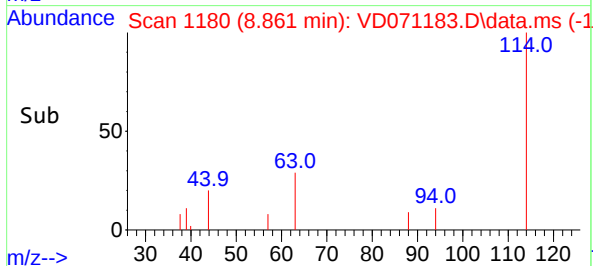
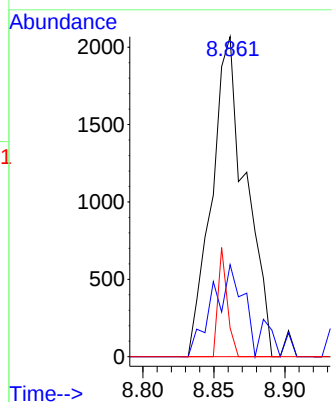
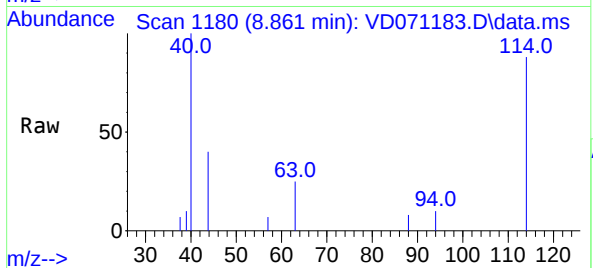




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. 0.000 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

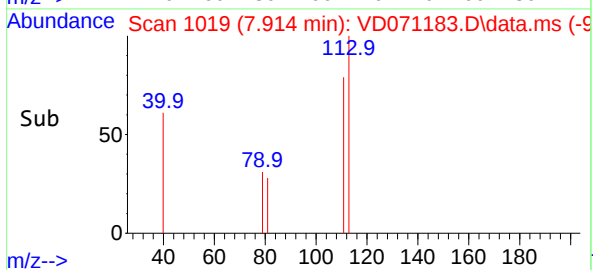
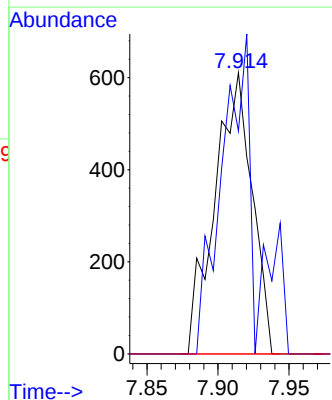
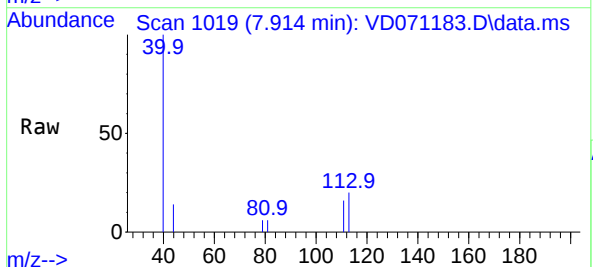
Instrument :
MSVOA_D
ClientSampleId :

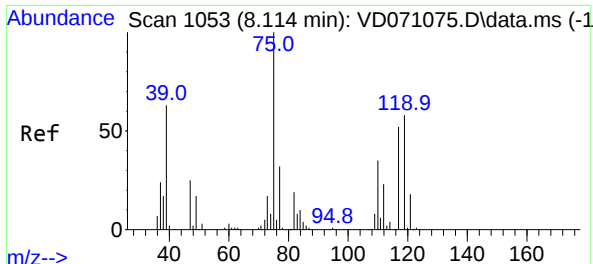
Tgt Ion:114	Resp:	3445
Ion Ratio	Lower	Upper
114	100	
63	28.8	0.0 41.8
88	8.9	0.0 32.8



#35
Dibromofluoromethane
Concen: 51.01 ug/l
RT: 7.914 min Scan# 1019
Delta R.T. -0.006 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

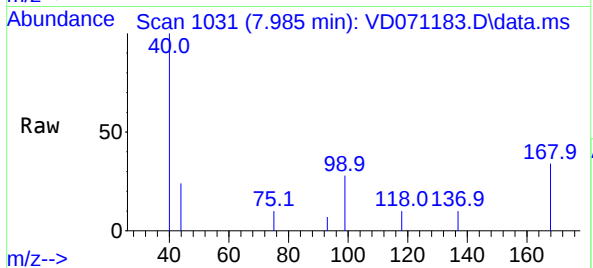
Tgt Ion:113	Resp:	1119
Ion Ratio	Lower	Upper
113	100	
111	94.5	82.0 123.0
192	0.0	15.2 22.8#



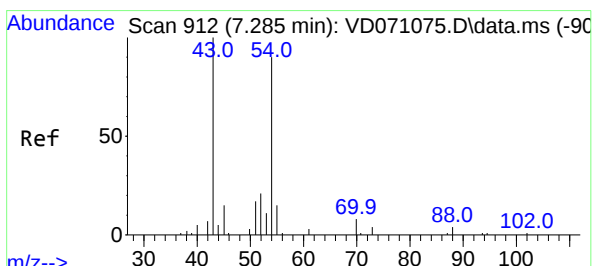
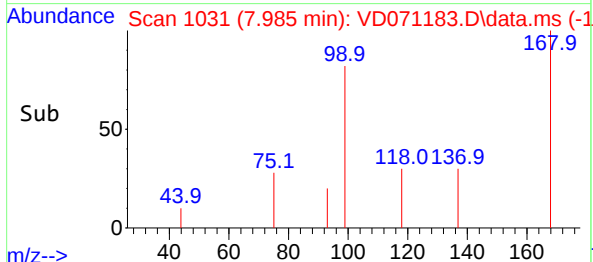
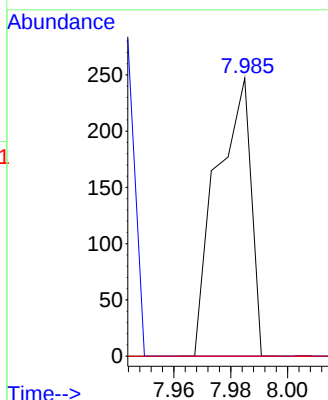


#36
1,1-Dichloropropene
Concen: 6.46 ug/l
RT: 7.985 min Scan# 1053
Delta R.T. -0.129 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Instrument :
MSVOA_D
ClientSampleId :

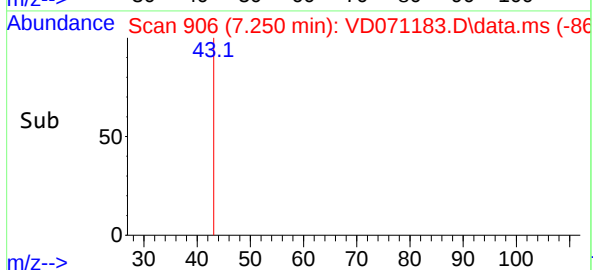
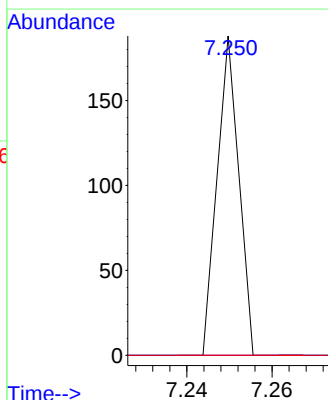
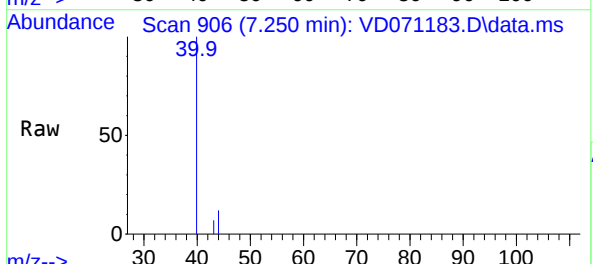


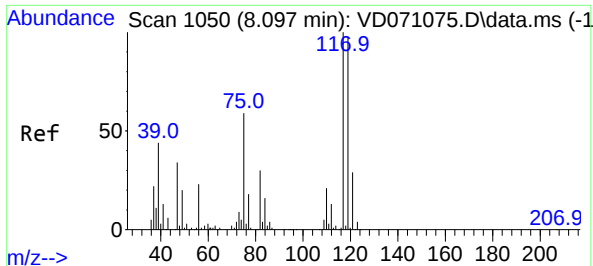
Tgt Ion: 75 Resp: 208
Ion Ratio Lower Upper
75 100
110 0.0 17.8 53.4#
77 0.0 24.8 37.2#



#37
Ethyl Acetate
Concen: 4.75 ug/l
RT: 7.250 min Scan# 906
Delta R.T. -0.035 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

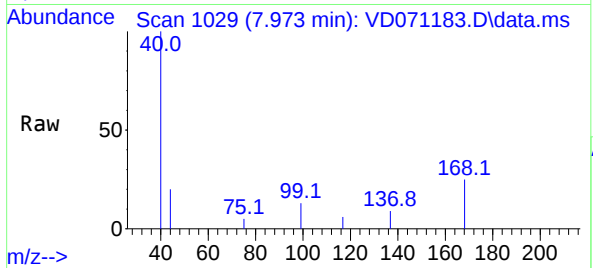
Tgt Ion: 43 Resp: 66
Ion Ratio Lower Upper
43 100
61 0.0 13.0 19.6#
70 0.0 8.7 13.1#



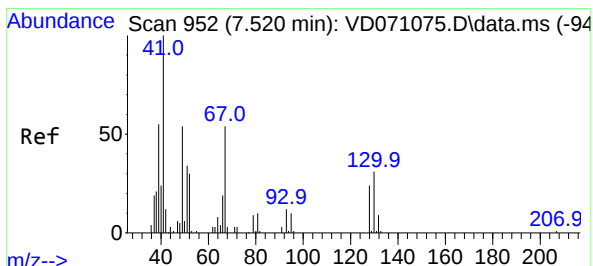
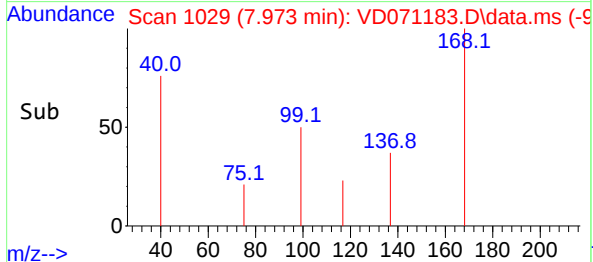
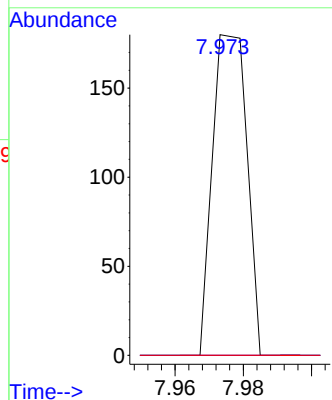


#38
Carbon Tetrachloride
Concen: 3.97 ug/l
RT: 7.973 min Scan# 1050
Delta R.T. -0.124 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Instrument :
MSVOA_D
ClientSampleId :

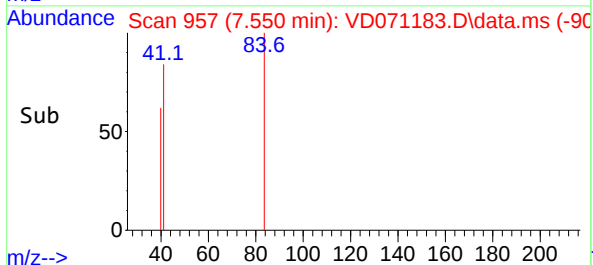
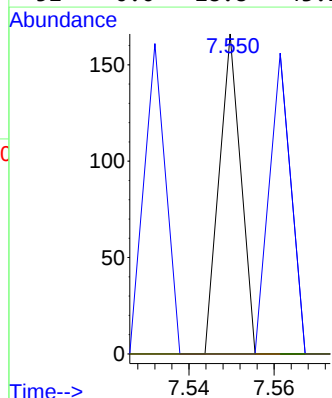
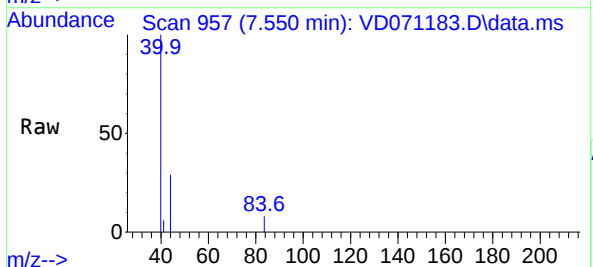


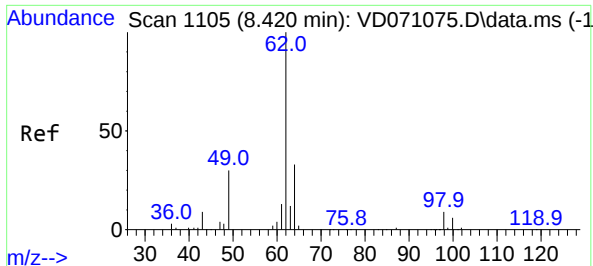
Tgt Ion:117 Resp: 126
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.6#
121 0.0 23.6 35.4#



#41
Methacrylonitrile
Concen: 4.53 ug/l
RT: 7.550 min Scan# 957
Delta R.T. 0.030 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Tgt Ion: 41 Resp: 59
Ion Ratio Lower Upper
41 100
39 93.2 60.2 90.4#
67 0.0 74.8 112.2#
52 0.0 28.8 43.2#

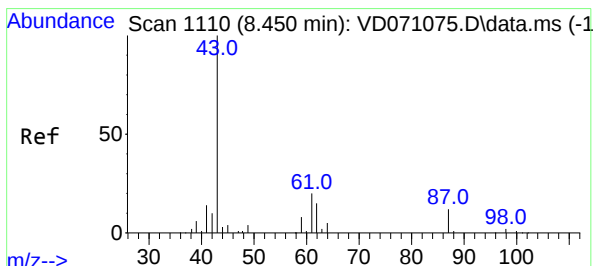
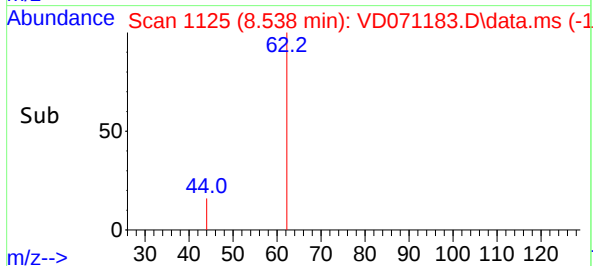
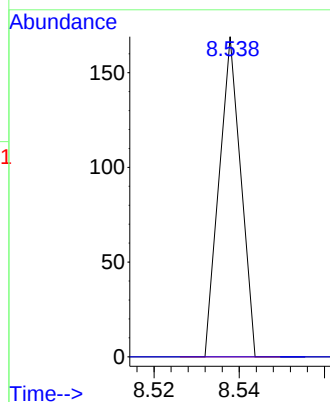
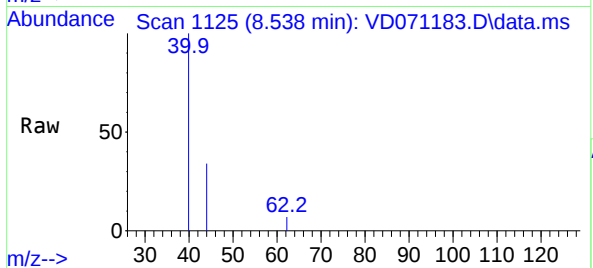




#42
1,2-Dichloroethane
Concen: 2.25 ug/l
RT: 8.538 min Scan# 1125
Delta R.T. 0.118 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

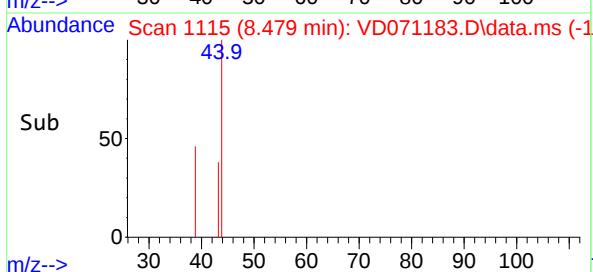
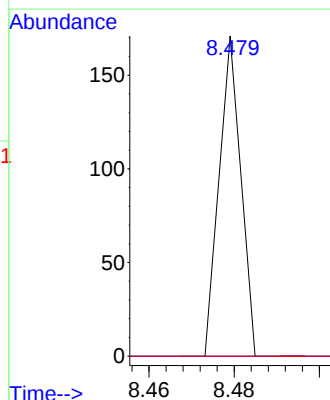
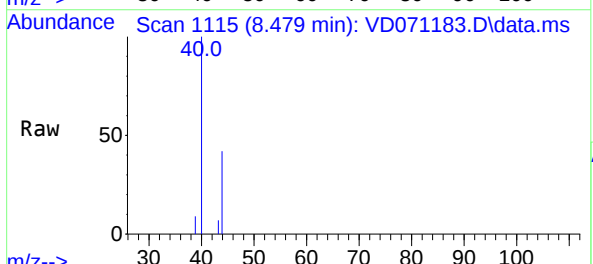
Instrument :
MSVOA_D
ClientSampleId :

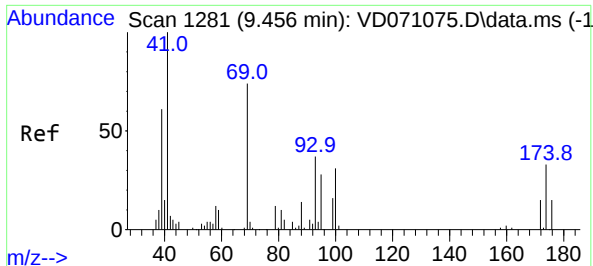
Tgt Ion: 62 Resp: 60
Ion Ratio Lower Upper
62 100
98 0.0 0.0 21.8



#43
Isopropyl Acetate
Concen: 6.98 ug/l
RT: 8.479 min Scan# 1115
Delta R.T. 0.029 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

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#





#48

Methyl methacrylate

Concen: 4.92 ug/l

RT: 9.402 min Scan# 11

Delta R.T. -0.053 min

Lab File: VD071183.D

Acq: 07 Dec 2021 15:08

Instrument :

MSVOA_D

ClientSampleId :

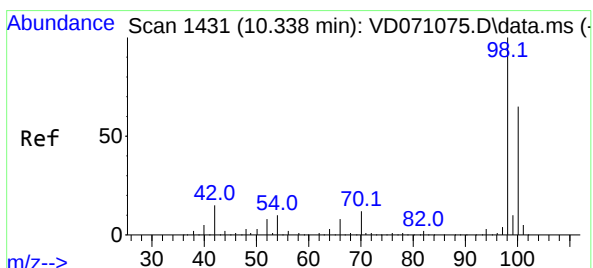
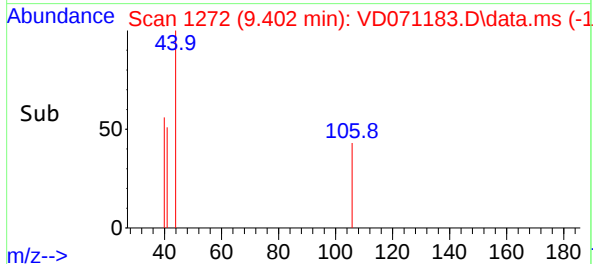
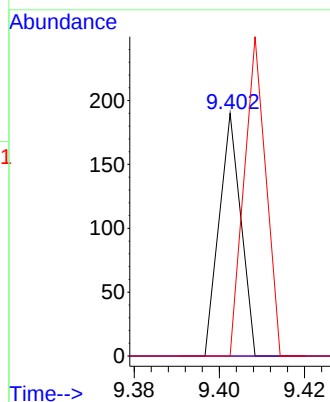
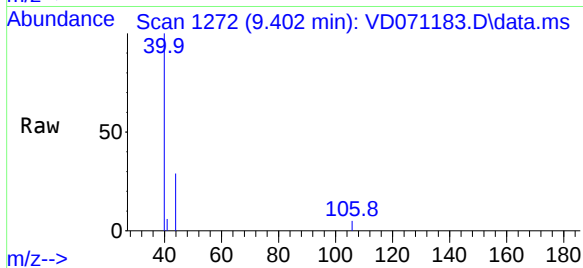
Tgt Ion: 41 Resp: 67

Ion Ratio Lower Upper

41 100

69 0.0 69.8 104.6#

39 131.3 35.6 53.4#



#50

Toluene-d8

Concen: 50.44 ug/l

RT: 10.338 min Scan# 1431

Delta R.T. -0.000 min

Lab File: VD071183.D

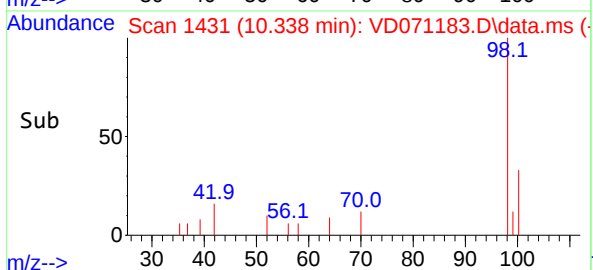
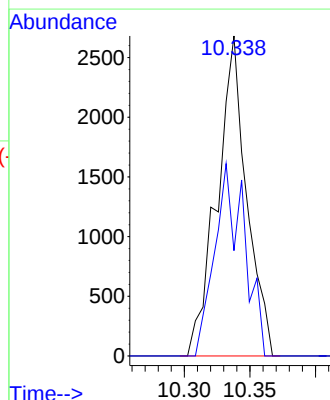
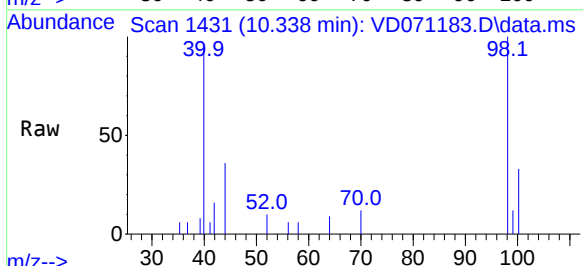
Acq: 07 Dec 2021 15:08

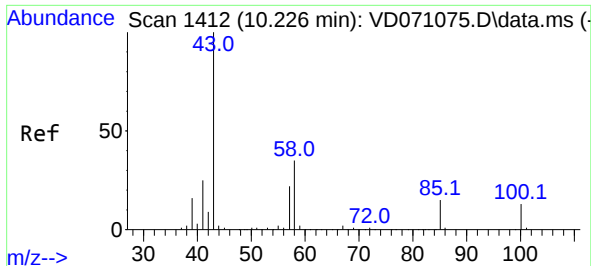
Tgt Ion: 98 Resp: 4211

Ion Ratio Lower Upper

98 100

100 60.0 51.8 77.6

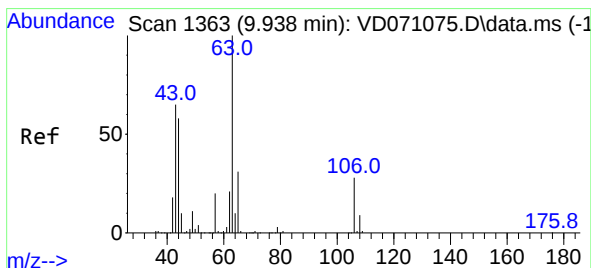
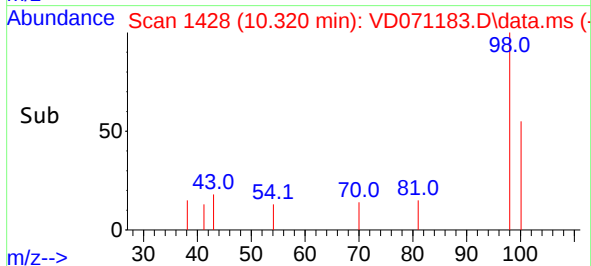
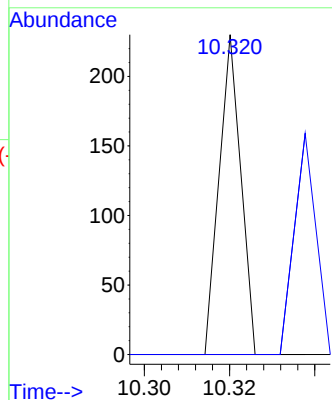
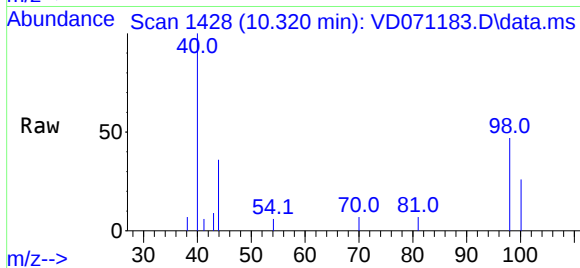




#51
4-Methyl-2-Pentanone
Concen: 35.18 ug/l
RT: 10.320 min Scan# 1412
Delta R.T. 0.094 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

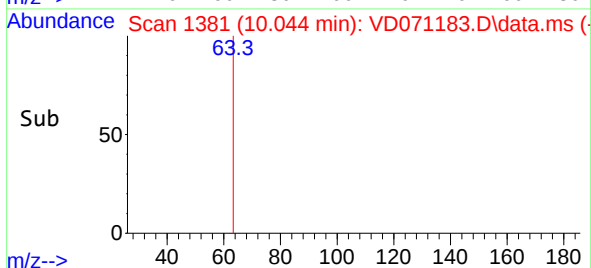
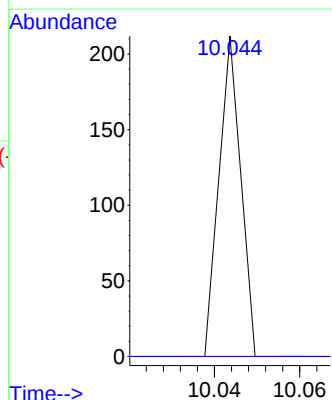
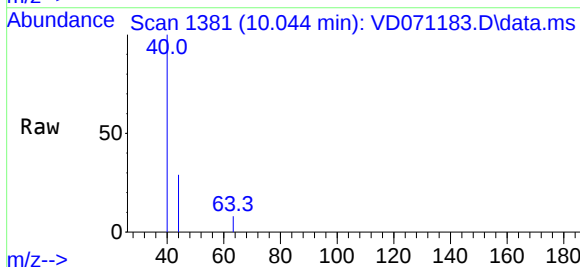
Instrument :
MSVOA_D
ClientSampleId :

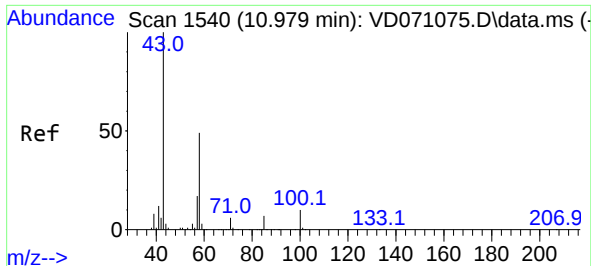
Tgt Ion: 43 Resp: 81
Ion Ratio Lower Upper
43 100
58 69.1 33.1 49.7#



#58
2-Chloroethyl Vinyl ether
Concen: 7.04 ug/l
RT: 10.044 min Scan# 1381
Delta R.T. 0.106 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Tgt Ion: 63 Resp: 75
Ion Ratio Lower Upper
63 100
106 0.0 21.0 31.4#





#59

2-Hexanone

Concen: 38.58 ug/l

RT: 10.961 min Scan# 11

Delta R.T. -0.018 min

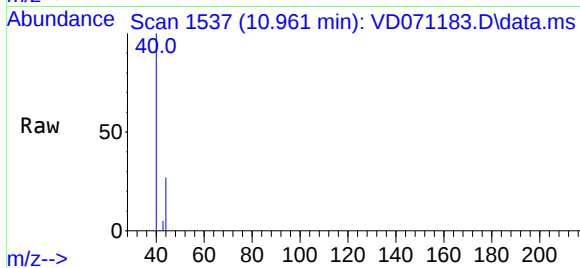
Lab File: VD071183.D

Acq: 07 Dec 2021 15:08

Instrument :

MSVOA_D

ClientSampleId :

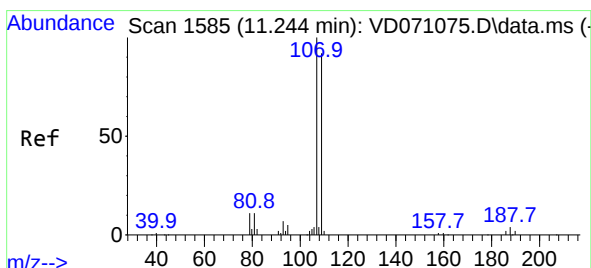
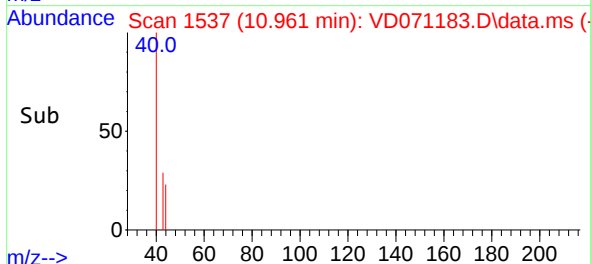
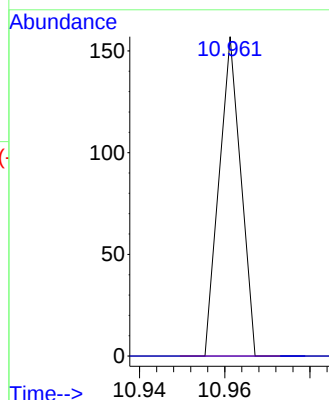


Tgt Ion: 43 Resp: 55

Ion Ratio Lower Upper

43 100

58 0.0 28.7 86.1#



#61

1,2-Dibromoethane

Concen: 4.46 ug/l

RT: 11.414 min Scan# 1614

Delta R.T. 0.170 min

Lab File: VD071183.D

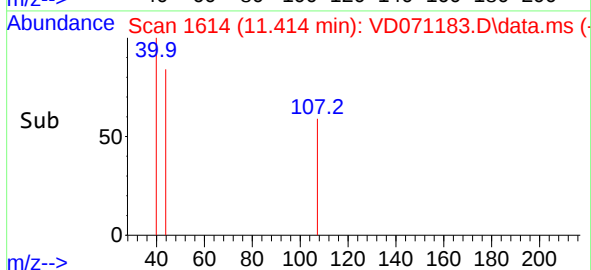
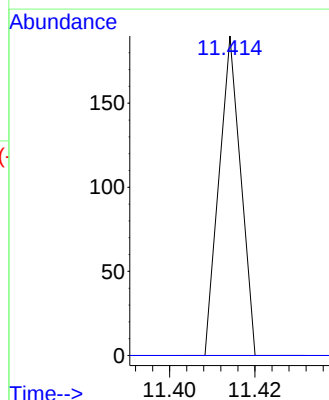
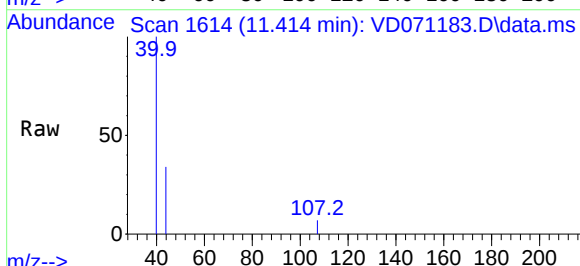
Acq: 07 Dec 2021 15:08

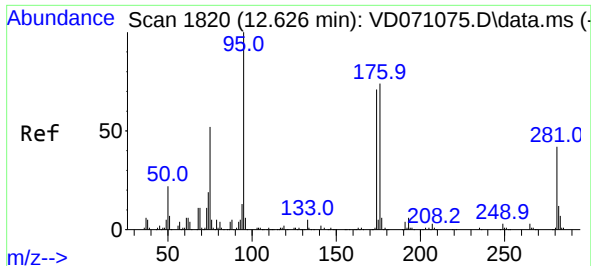
Tgt Ion: 107 Resp: 67

Ion Ratio Lower Upper

107 100

109 0.0 74.6 112.0#

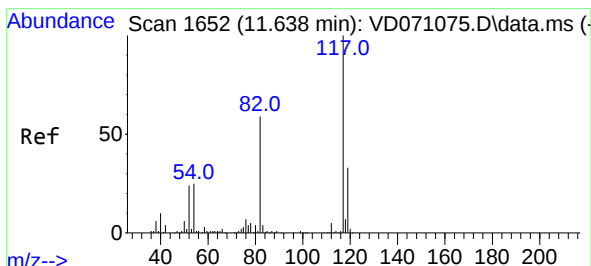
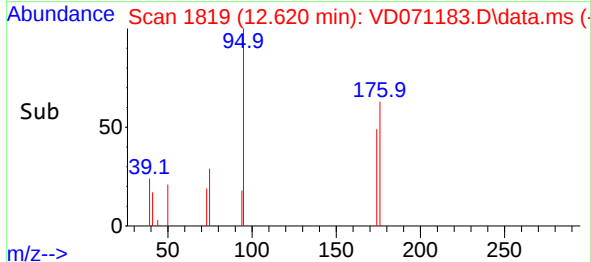
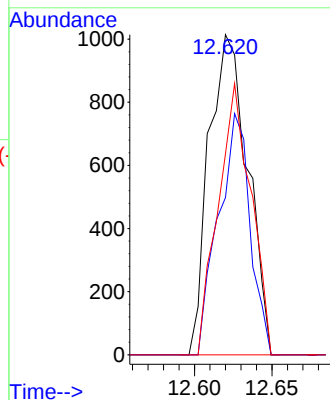
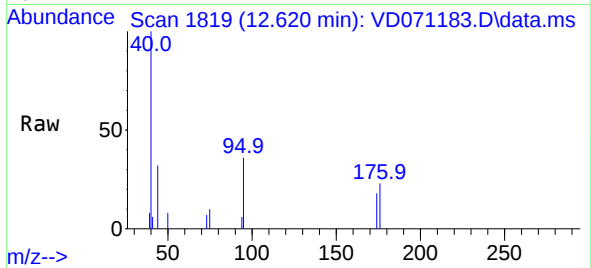




#62
4-Bromofluorobenzene
Concen: 60.82 ug/l
RT: 12.620 min Scan# 11
Delta R.T. -0.006 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

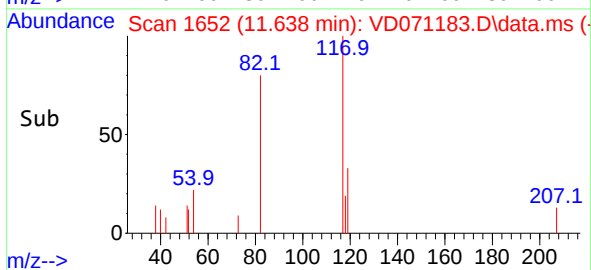
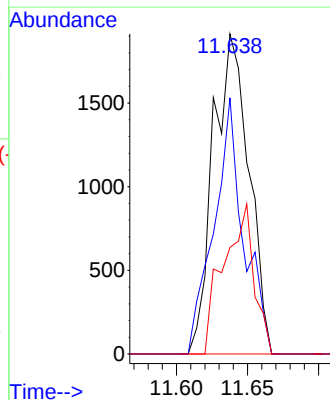
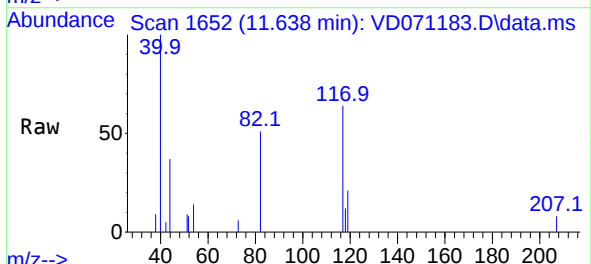
Instrument :
MSVOA_D
ClientSampleId :

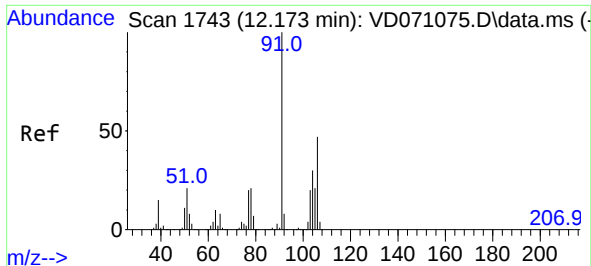
Tgt Ion: 95 Resp: 1760
Ion Ratio Lower Upper
95 100
174 61.5 0.0 159.4
176 71.8 0.0 154.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Tgt Ion: 117 Resp: 3334
Ion Ratio Lower Upper
117 100
82 80.0 44.7 67.1#
119 33.3 26.2 39.4

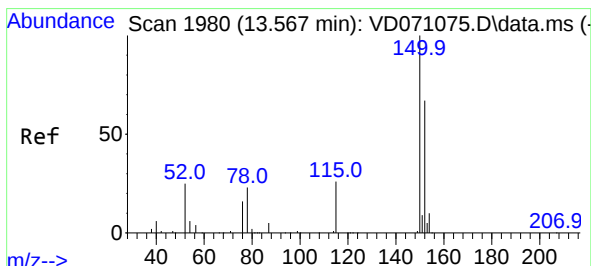
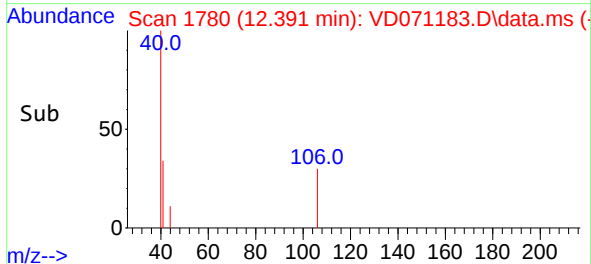
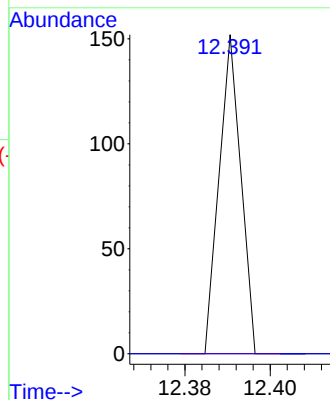
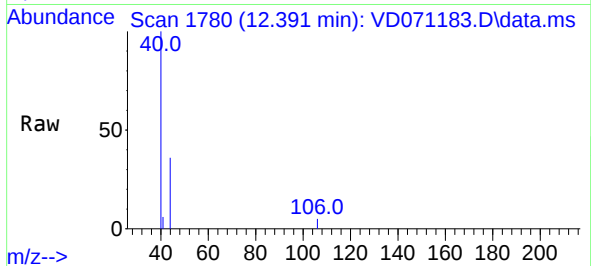




#69
o-Xylene
Concen: 1.31 ug/l
RT: 12.391 min Scan# 1743
Delta R.T. 0.218 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

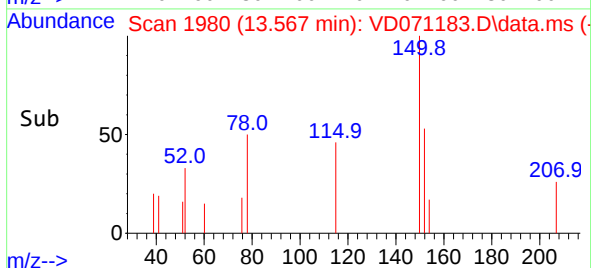
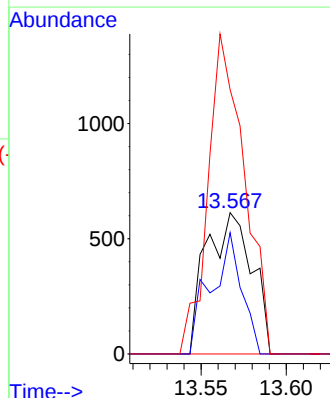
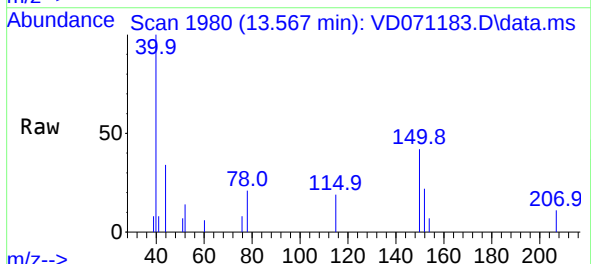
Instrument :
MSVOA_D
ClientSampleId :

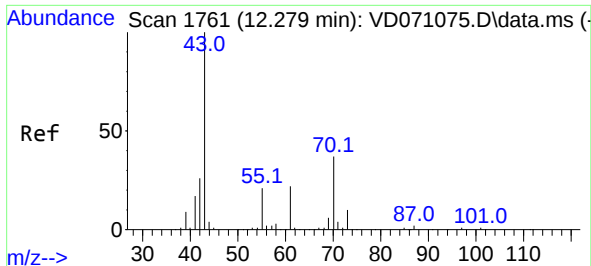
Tgt Ion:106 Resp: 54
Ion Ratio Lower Upper
106 100
91 0.0 106.3 319.0#



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. -0.000 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Tgt Ion:152 Resp: 1149
Ion Ratio Lower Upper
152 100
115 57.6 29.8 89.3
150 179.2 0.0 349.2

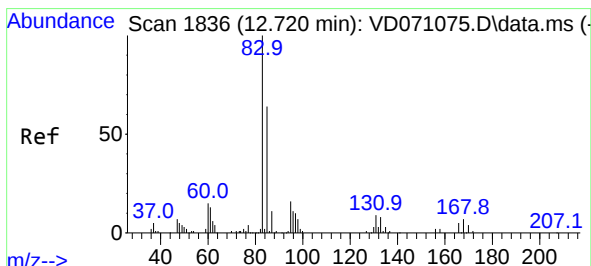
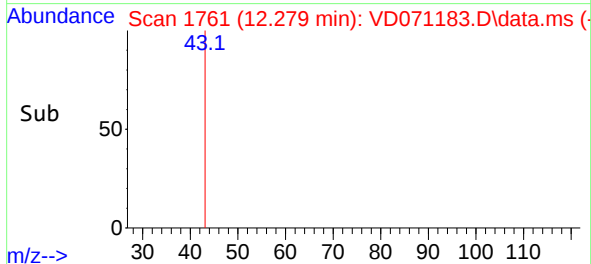
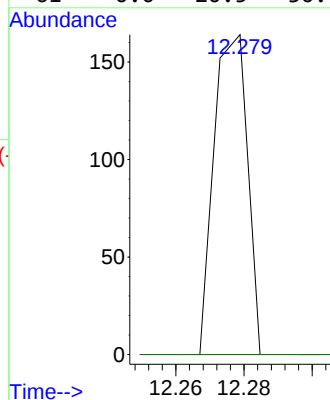
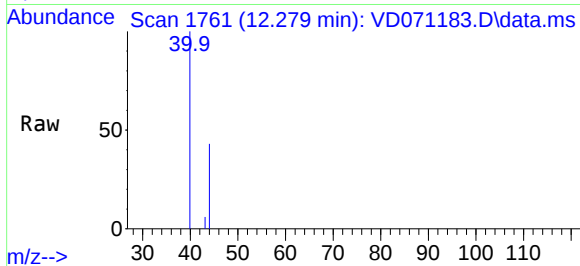




#74
N-amy1 acetate
Concen: 10.06 ug/l
RT: 12.279 min Scan# 112
Delta R.T. -0.000 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

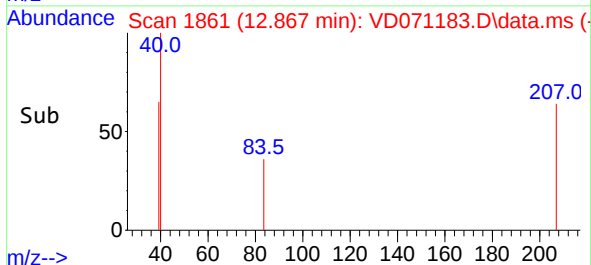
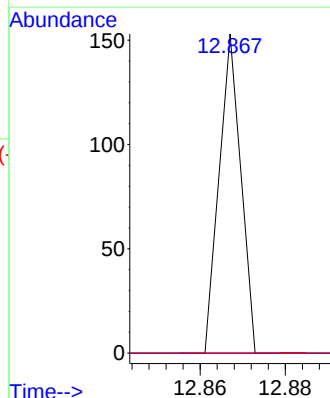
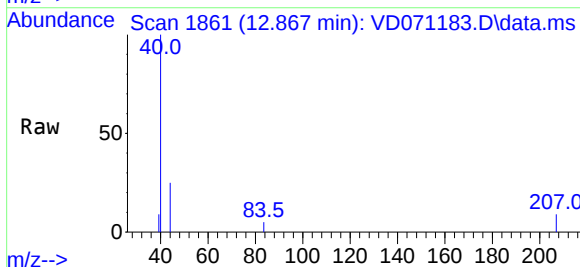
Instrument :
MSVOA_D
ClientSampleId :

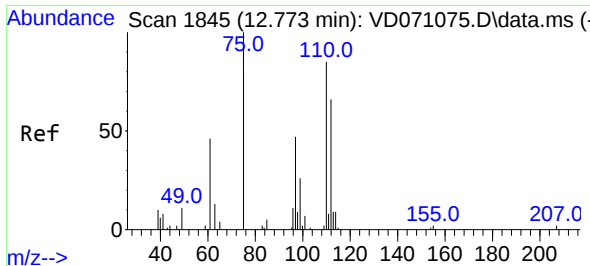
Tgt Ion: 43	Resp:	112
Ion	Ratio	Lower Upper
43	100	
70	0.0	36.6 55.0#
55	0.0	22.5 33.7#
61	0.0	20.5 30.7#



#75
1,1,2,2-Tetrachloroethane
Concen: 3.94 ug/l
RT: 12.867 min Scan# 1861
Delta R.T. 0.147 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Tgt Ion: 83	Resp:	54
Ion	Ratio	Lower Upper
83	100	
131	0.0	4.9 14.7#
85	0.0	32.0 96.2#

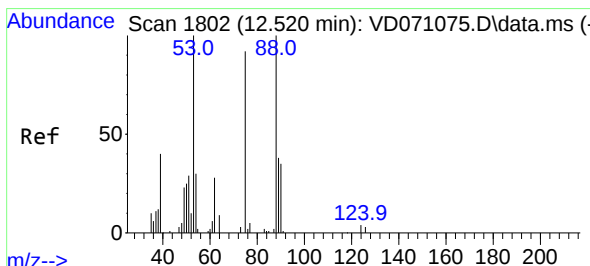
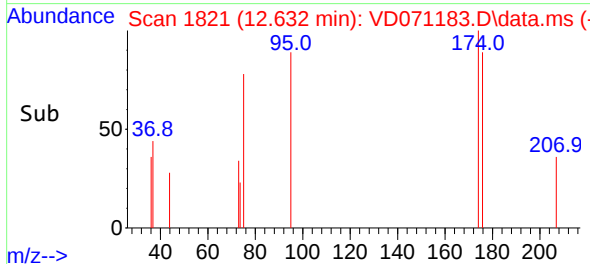
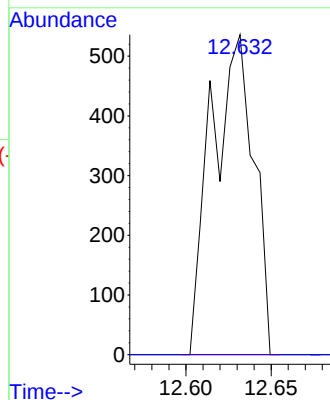
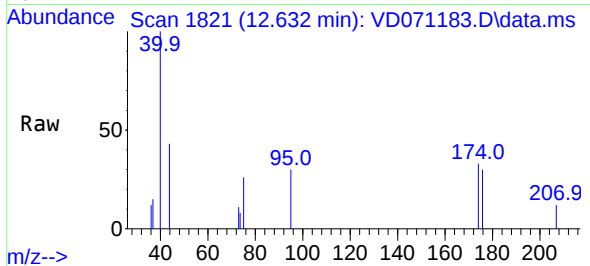




#76
1,2,3-Trichloropropane
Concen: 84.50 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. -0.141 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion: 75 Resp: 925
Ion Ratio Lower Upper
75 100
77 0.0 158.4 475.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 180.58 ug/l
RT: 12.632 min Scan# 1821
Delta R.T. 0.112 min
Lab File: VD071183.D
Acq: 07 Dec 2021 15:08

Tgt Ion: 75 Resp: 925
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 0.0 34.5 51.7#

