

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD120721\
 Data File : VD071184.D
 Acq On : 07 Dec 2021 15:36
 Operator : VA/SY
 Sample : M4955-01
 Misc : 5.03G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 2022

Quant Time: Dec 08 02:50:24 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)

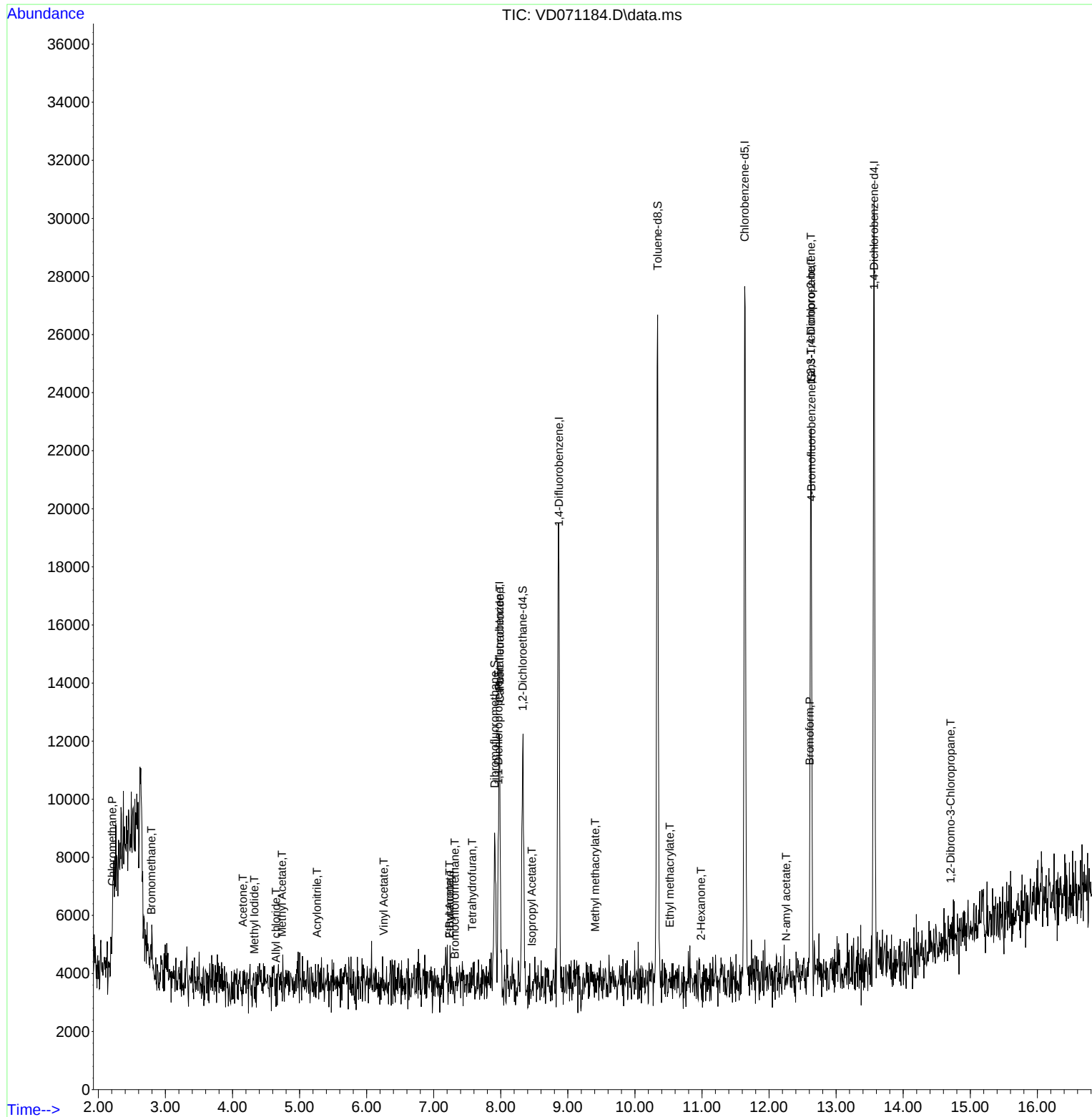
Internal Standards						
1) Pentafluorobenzene	7.979	168	6746	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.867	114	11858	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	13051	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	6269	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	5353	67.626	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 135.260%			
35) Dibromofluoromethane	7.908	113	3283	43.477	ug/l	-0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 86.960%			
50) Toluene-d8	10.338	98	14246	49.576	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 99.160%			
62) 4-Bromofluorobenzene	12.632	95	6380	64.051	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 128.100%			
Target Compounds						Qvalue
3) Chloromethane	2.209	50	184	2.418	ug/l	# 42
5) Bromomethane	2.791	94	510	8.332	ug/l	82
10) Methyl Iodide	4.326	142	352	8.616	ug/l	# 60
14) Allyl chloride	4.650	41	124	1.042	ug/l	# 28
15) Acrylonitrile	5.262	53	65	4.286	ug/l	# 19
16) Acetone	4.156	43	60	33.299	ug/l	# 40
18) Methyl Acetate	4.738	43	64	1.096	ug/l	# 51
20) Methylene Chloride	4.979	84	57	Below Cal	#	1
23) Vinyl Acetate	6.256	43	63	27.654	ug/l	# 72
25) 2-Butanone	7.238	43	69	30.879	ug/l	# 45
28) Bromochloromethane	7.314	49	62	1.041	ug/l	# 14
29) Tetrahydrofuran	7.573	42	57	4.535	ug/l	# 34
36) 1,1-Dichloropropene	7.967	75	346	3.122	ug/l	# 41
37) Ethyl Acetate	7.238	43	69	1.441	ug/l	# 66
38) Carbon Tetrachloride	7.985	117	925	8.467	ug/l	# 12
41) Methacrylonitrile	7.491	41	55	Below Cal	#	1
43) Isopropyl Acetate	8.461	43	67	5.793	ug/l	# 47
48) Methyl methacrylate	9.408	41	59	1.259	ug/l	# 15
56) Ethyl methacrylate	10.520	69	67	6.731	ug/l	# 64
59) 2-Hexanone	10.985	43	61	35.866	ug/l	# 22
71) Bromoform	12.608	173	53	1.157	ug/l	# 1
74) N-amyl acetate	12.255	43	55	6.093	ug/l	# 40
76) 1,2,3-Trichloropropane	12.626	75	3517	58.883	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.626	75	3517	127.594	ug/l	# 18
92) 1,2-Dibromo-3-Chloropr...	14.708	75	55	4.518	ug/l	# 4

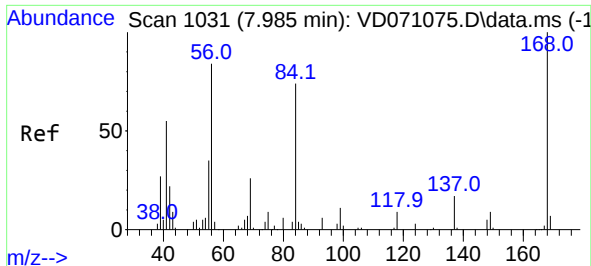
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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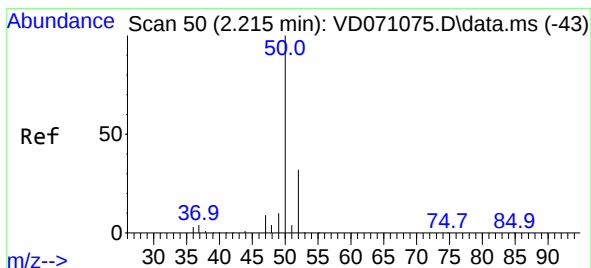
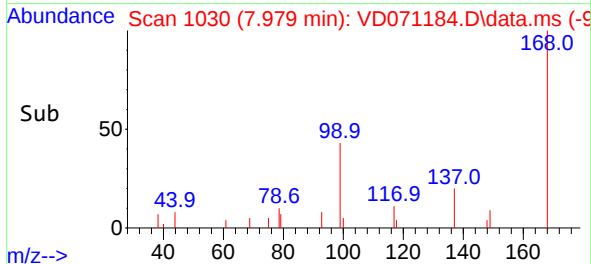
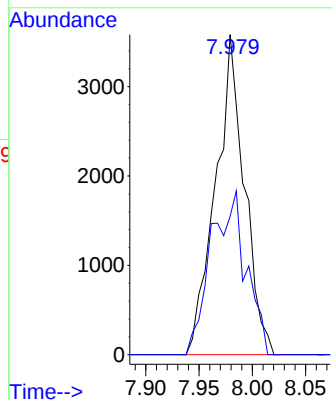
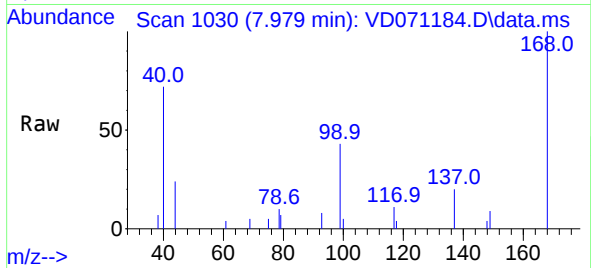




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 10
Delta R.T. -0.006 min
Lab File: VD071184.D
Acq: 07 Dec 2021 15:36

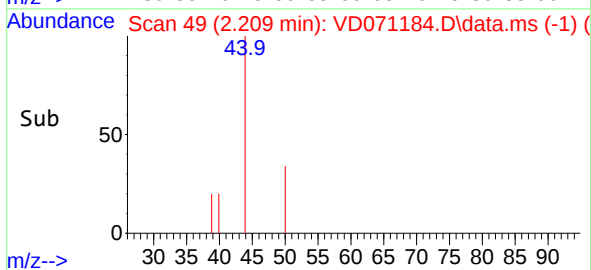
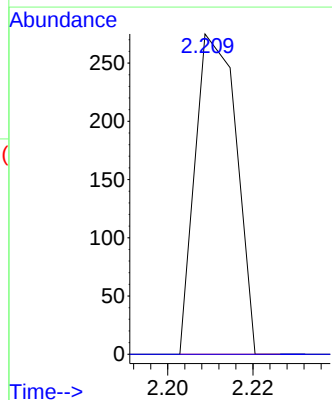
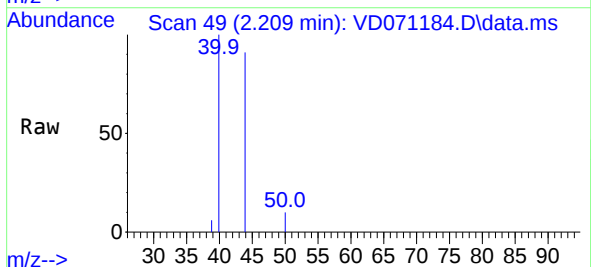
Instrument :
MSVOA_D
ClientSampleId :
2022

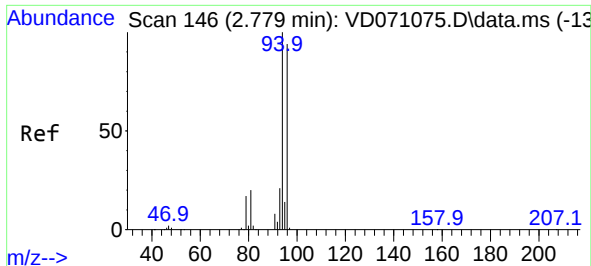
Tgt Ion:168 Resp: 6746
Ion Ratio Lower Upper
168 100
99 43.3 46.6 69.8#



#3
Chloromethane
Concen: 2.418 ug/l
RT: 2.209 min Scan# 49
Delta R.T. -0.006 min
Lab File: VD071184.D
Acq: 07 Dec 2021 15:36

Tgt Ion: 50 Resp: 184
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.8#

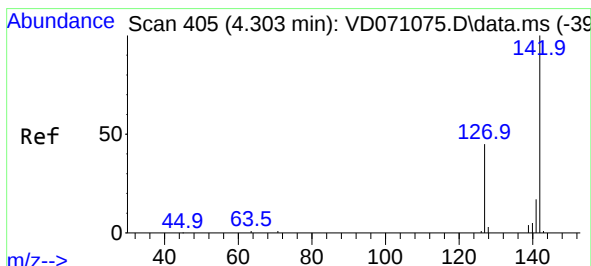
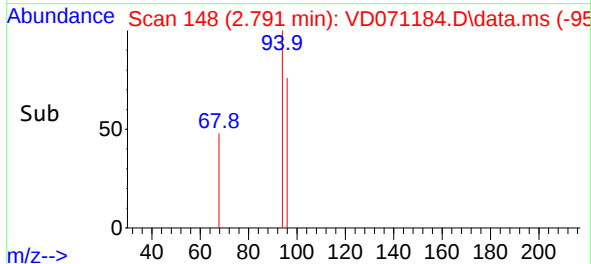
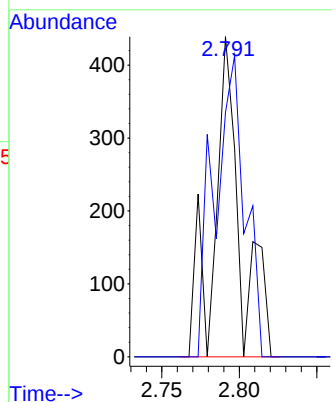
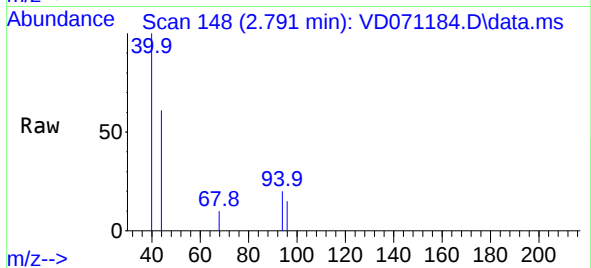




#5
Bromomethane
Concen: 8.332 ug/l
RT: 2.791 min Scan# 146
Delta R.T. 0.012 min
Lab File: VD071184.D
Acq: 07 Dec 2021 15:36

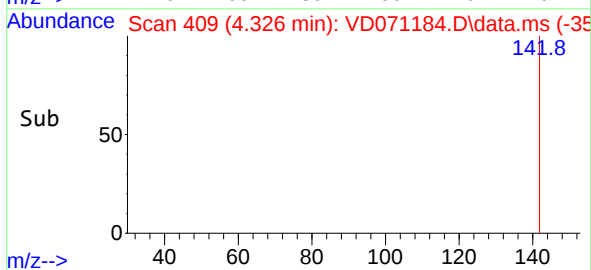
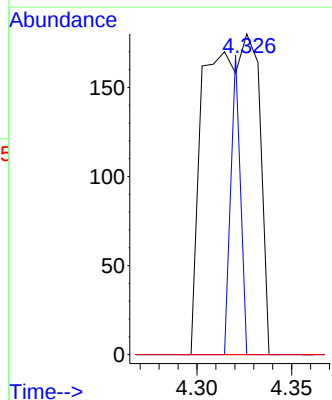
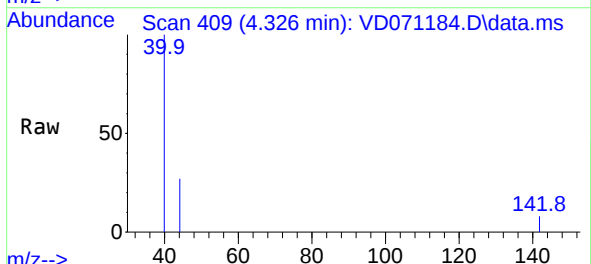
Instrument :
MSVOA_D
ClientSampleId :
2022

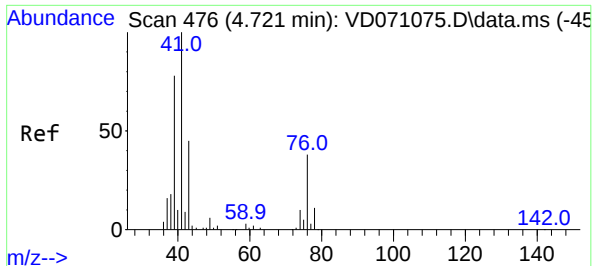
Tgt Ion: 94 Resp: 510
Ion Ratio Lower Upper
94 100
96 76.3 74.8 112.2



#10
Methyl Iodide
Concen: 8.616 ug/l
RT: 4.326 min Scan# 409
Delta R.T. 0.023 min
Lab File: VD071184.D
Acq: 07 Dec 2021 15:36

Tgt Ion: 142 Resp: 352
Ion Ratio Lower Upper
142 100
127 16.8 35.0 52.4#
141 0.0 12.0 18.0#





#14

Allyl chloride

Concen: 1.042 ug/l

RT: 4.650 min Scan# 41

Delta R.T. -0.071 min

Lab File: VD071184.D

Acq: 07 Dec 2021 15:36

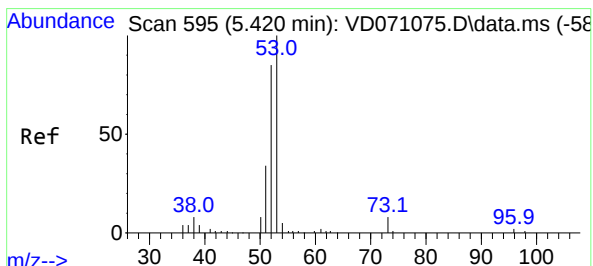
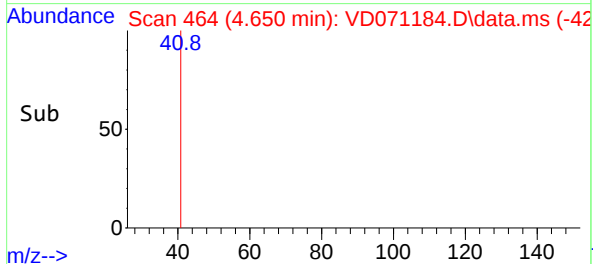
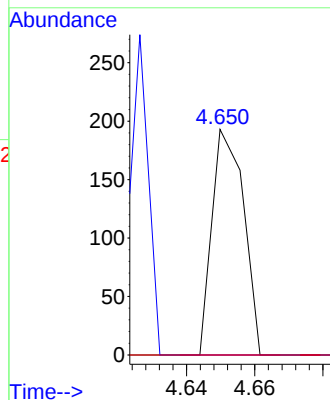
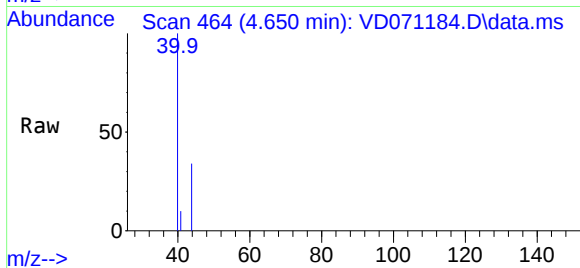
Instrument :

MSVOA_D

ClientSampleId :

2022

Tgt Ion:	41	Resp:	124
Ion	Ratio	Lower	Upper
41	100		
39	0.0	45.6	68.4#
76	0.0	30.2	45.4#



#15

Acrylonitrile

Concen: 4.286 ug/l

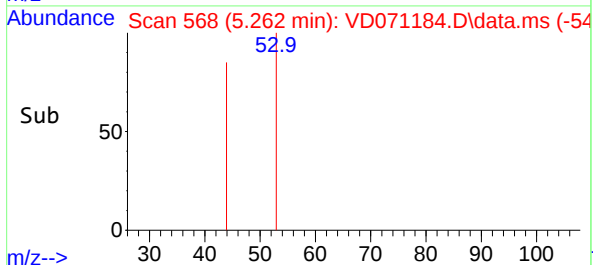
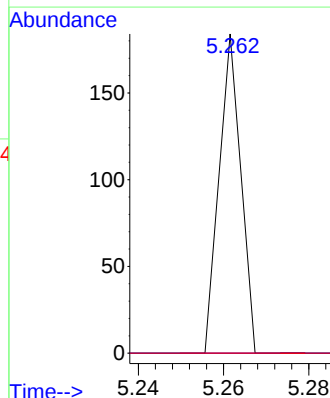
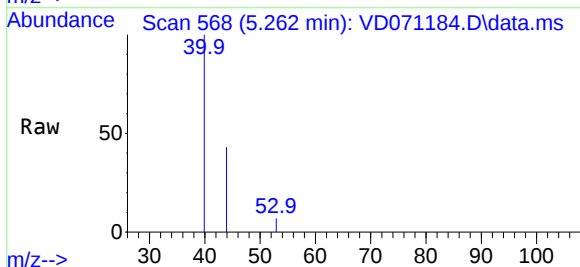
RT: 5.262 min Scan# 568

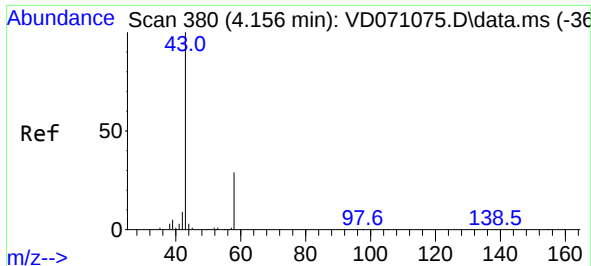
Delta R.T. -0.158 min

Lab File: VD071184.D

Acq: 07 Dec 2021 15:36

Tgt Ion:	53	Resp:	65
Ion	Ratio	Lower	Upper
53	100		
52	0.0	63.8	95.8#
51	0.0	28.5	42.7#

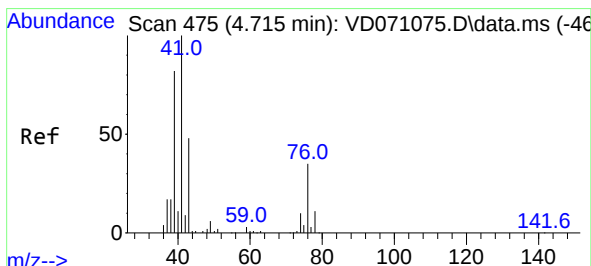
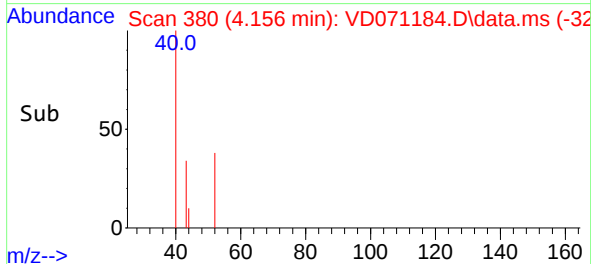
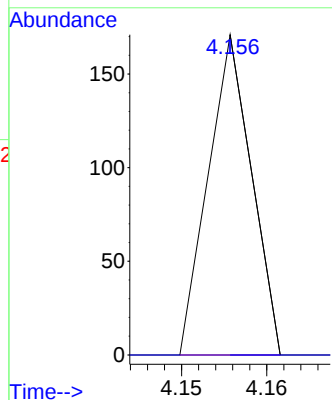
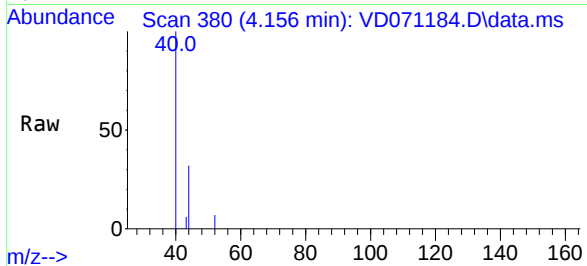




#16
Acetone
Concen: 33.299 ug/l
RT: 4.156 min Scan# 31
Delta R.T. -0.000 min
Lab File: VD071184.D
Acq: 07 Dec 2021 15:36

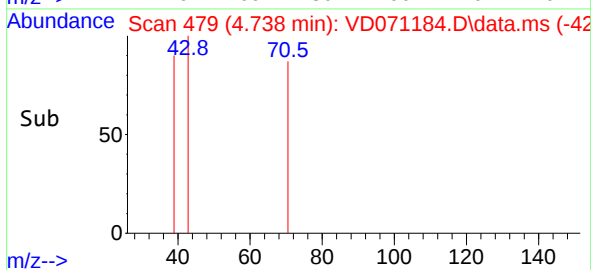
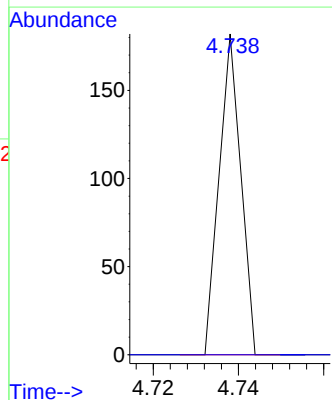
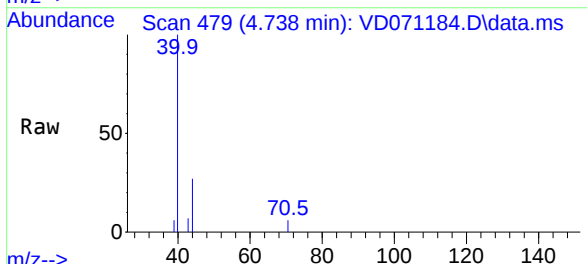
Instrument :
MSVOA_D
ClientSampleId :
2022

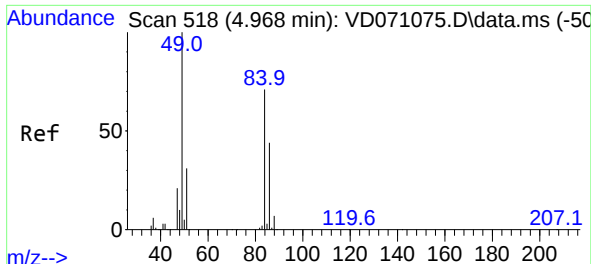
Tgt Ion: 43 Resp: 60
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#



#18
Methyl Acetate
Concen: 1.096 ug/l
RT: 4.738 min Scan# 479
Delta R.T. 0.023 min
Lab File: VD071184.D
Acq: 07 Dec 2021 15:36

Tgt Ion: 43 Resp: 64
Ion Ratio Lower Upper
43 100
74 0.0 19.3 28.9#





#20

Methylene Chloride

Concen: Below Cal

RT: 4.979 min Scan# 51

Delta R.T. 0.011 min

Lab File: VD071184.D

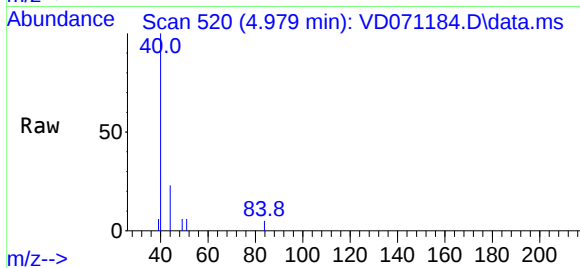
Acq: 07 Dec 2021 15:36

Instrument :

MSVOA_D

ClientSampleId :

2022



Tgt Ion: 84 Resp: 57

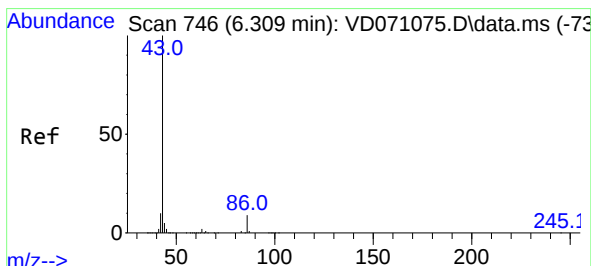
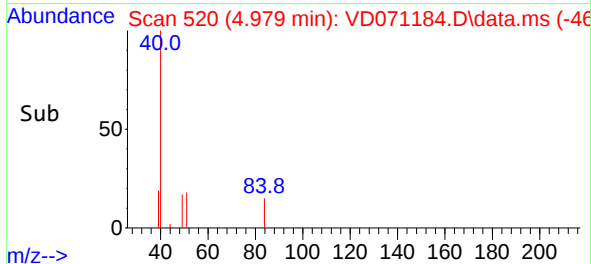
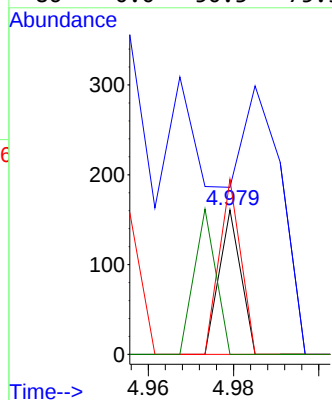
Ion Ratio Lower Upper

84 100

49 0.0 95.8 143.6#

51 121.1 30.9 46.3#

86 0.0 50.3 75.5#



#23

Vinyl Acetate

Concen: 27.654 ug/l

RT: 6.256 min Scan# 737

Delta R.T. -0.053 min

Lab File: VD071184.D

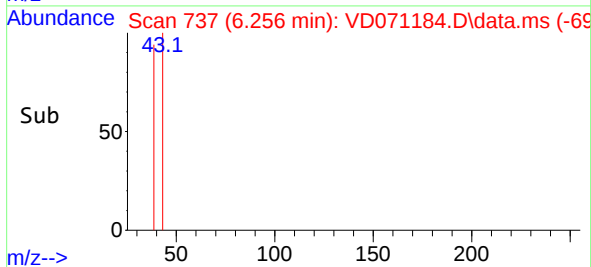
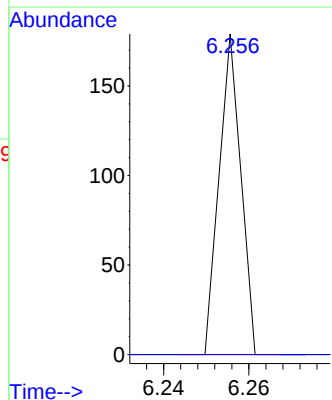
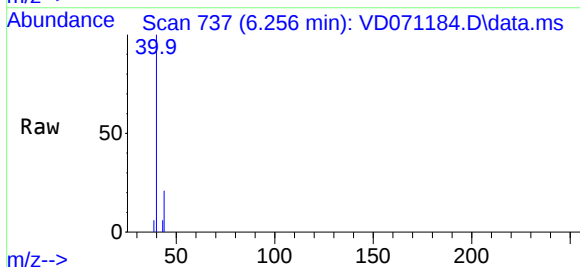
Acq: 07 Dec 2021 15:36

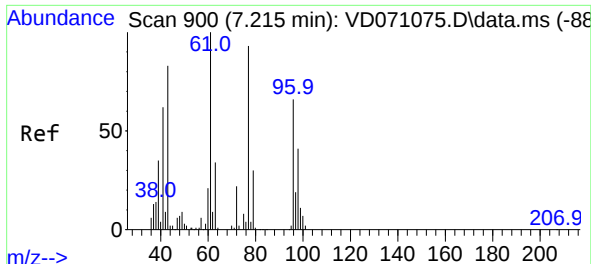
Tgt Ion: 43 Resp: 63

Ion Ratio Lower Upper

43 100

86 0.0 8.2 12.4#





#25

2-Butanone

Concen: 30.879 ug/l

RT: 7.238 min Scan# 904

Delta R.T. 0.023 min

Lab File: VD071184.D

Acq: 07 Dec 2021 15:36

Instrument :

MSVOA_D

ClientSampleId :

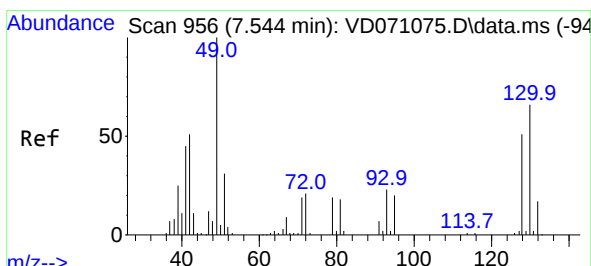
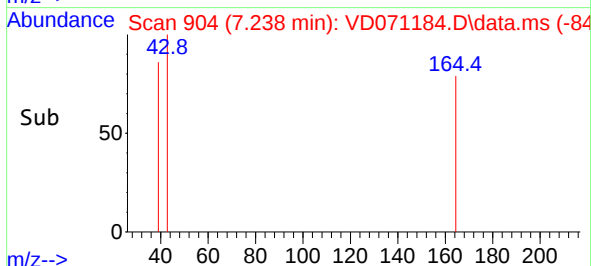
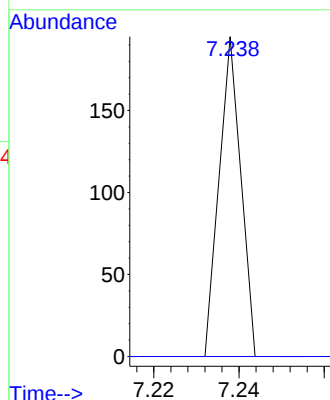
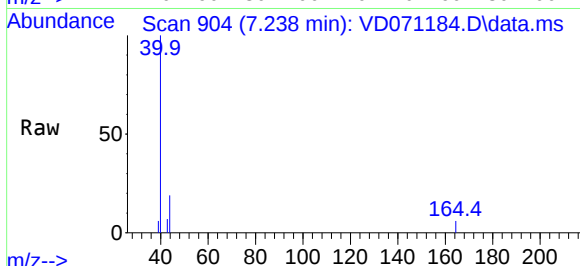
2022

Tgt Ion: 43 Resp: 69

Ion Ratio Lower Upper

43 100

72 0.0 23.8 35.6#



#28

Bromochloromethane

Concen: 1.041 ug/l

RT: 7.314 min Scan# 917

Delta R.T. -0.230 min

Lab File: VD071184.D

Acq: 07 Dec 2021 15:36

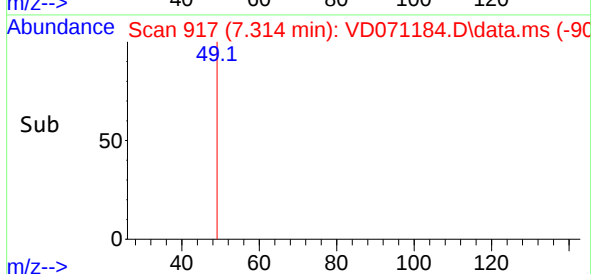
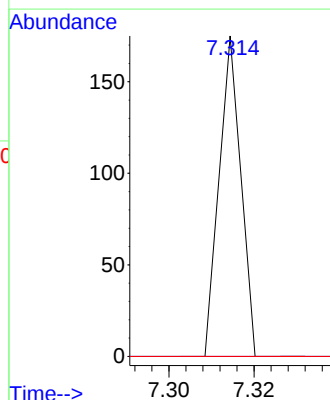
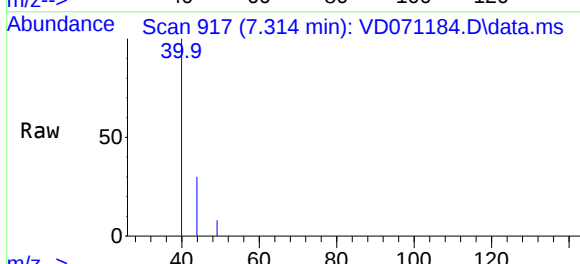
Tgt Ion: 49 Resp: 62

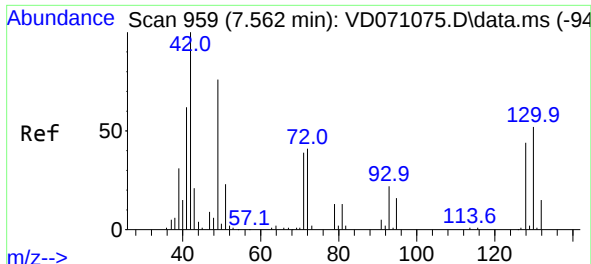
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.0

130 0.0 60.2 90.2#





#29

Tetrahydrofuran

Concen: 4.535 ug/l

RT: 7.573 min Scan# 9

Delta R.T. 0.011 min

Lab File: VD071184.D

Acq: 07 Dec 2021 15:36

Instrument :

MSVOA_D

ClientSampleId :

2022

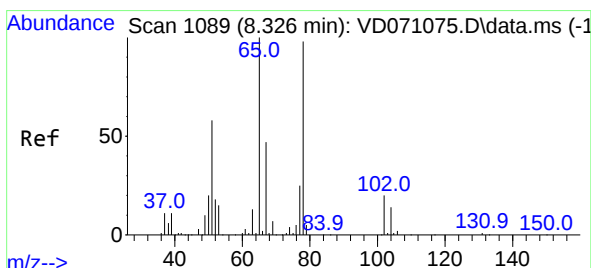
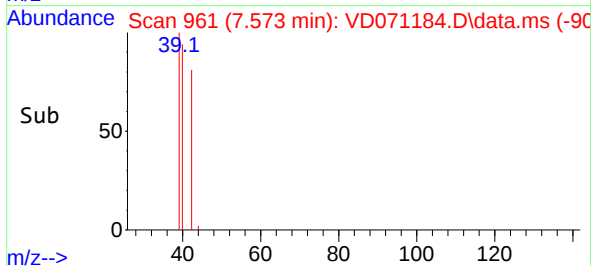
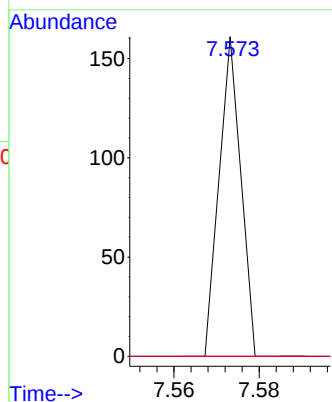
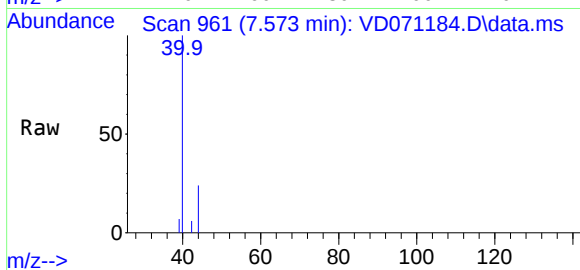
Tgt Ion: 42 Resp: 57

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: 67.626 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VD071184.D

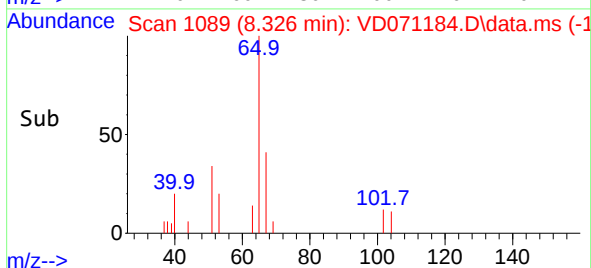
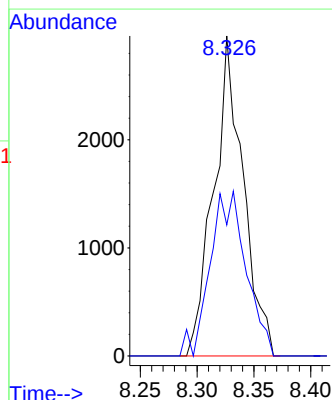
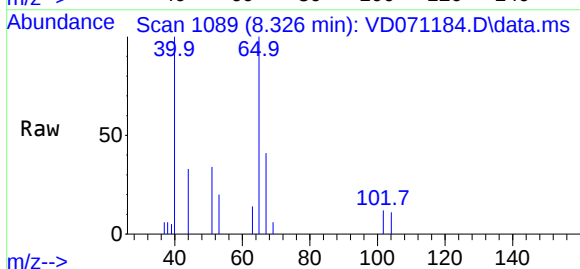
Acq: 07 Dec 2021 15:36

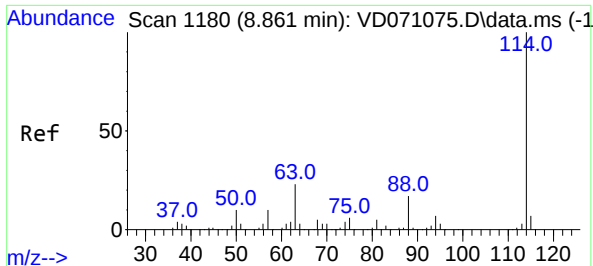
Tgt Ion: 65 Resp: 5353

Ion Ratio Lower Upper

65 100

67 62.4 0.0 112.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.867 min Scan# 1180

Delta R.T. 0.006 min

Lab File: VD071184.D

Acq: 07 Dec 2021 15:36

Instrument :

MSVOA_D

ClientSampleId :

2022

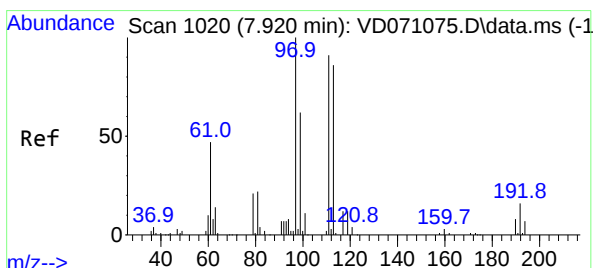
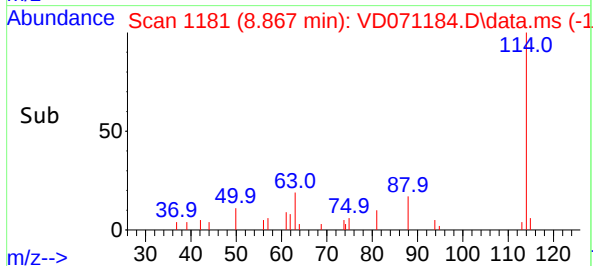
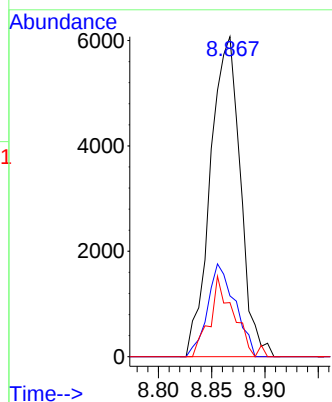
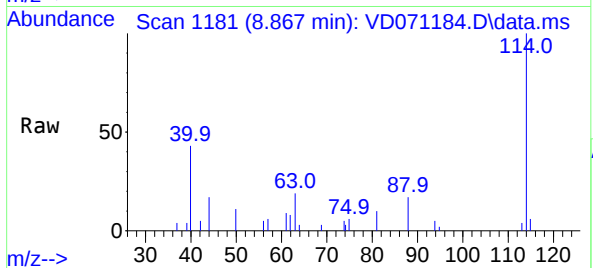
Tgt Ion:114 Resp: 11858

Ion Ratio Lower Upper

114 100

63 19.0 0.0 41.8

88 16.9 0.0 32.8



#35

Dibromofluoromethane

Concen: 43.477 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. -0.012 min

Lab File: VD071184.D

Acq: 07 Dec 2021 15:36

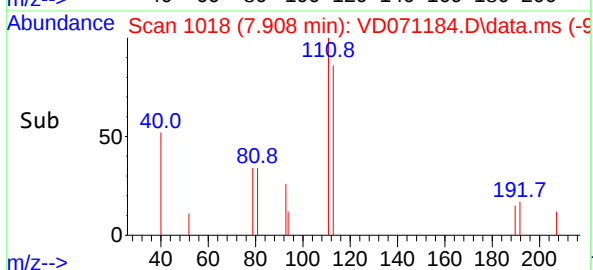
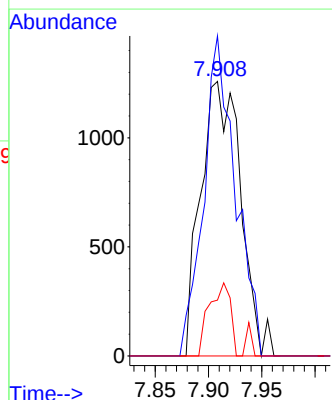
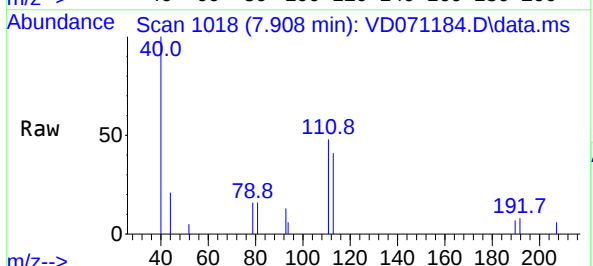
Tgt Ion:113 Resp: 3283

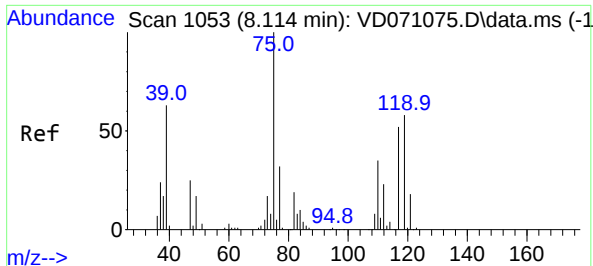
Ion Ratio Lower Upper

113 100

111 92.9 82.0 123.0

192 14.1 15.2 22.8#





#36

1,1-Dichloropropene

Concen: 3.122 ug/l

RT: 7.967 min Scan# 1053

Delta R.T. -0.147 min

Lab File: VD071184.D

Acq: 07 Dec 2021 15:36

Instrument :

MSVOA_D

ClientSampleId :

2022

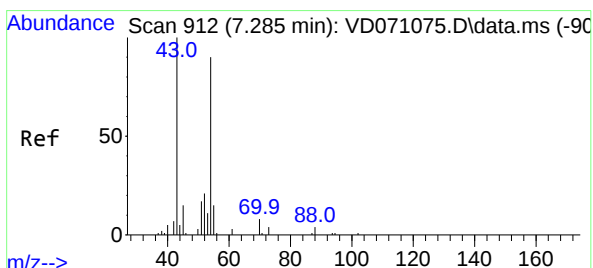
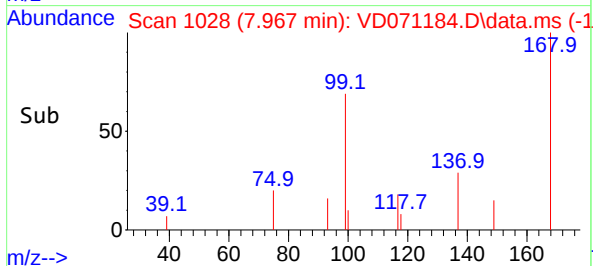
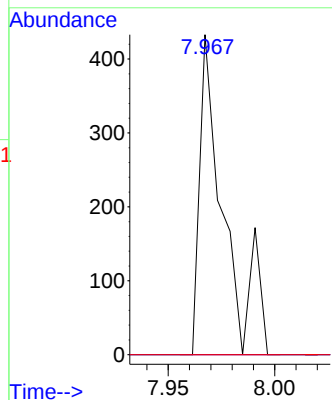
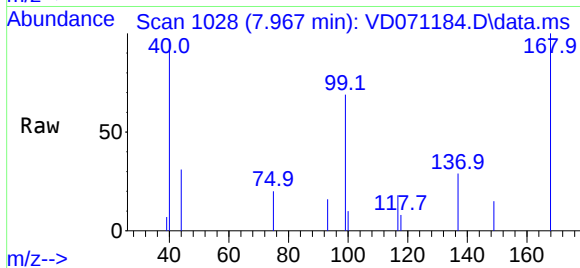
Tgt Ion: 75 Resp: 346

Ion Ratio Lower Upper

75 100

110 0.0 17.8 53.4#

77 0.0 24.8 37.2#



#37

Ethyl Acetate

Concen: 1.441 ug/l

RT: 7.238 min Scan# 904

Delta R.T. -0.047 min

Lab File: VD071184.D

Acq: 07 Dec 2021 15:36

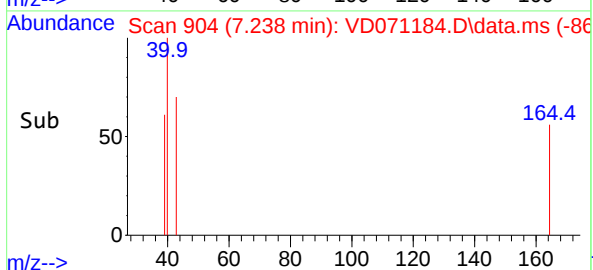
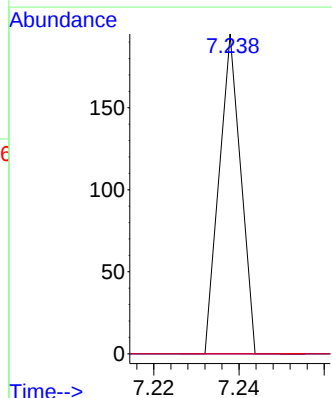
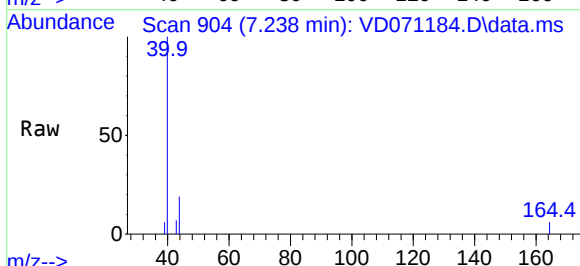
Tgt Ion: 43 Resp: 69

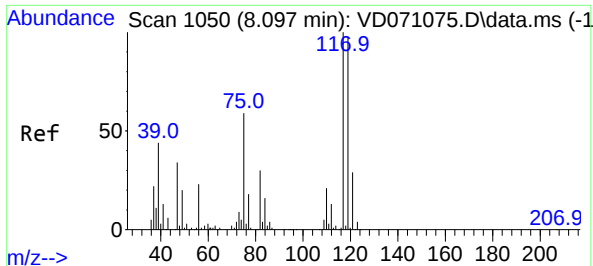
Ion Ratio Lower Upper

43 100

61 0.0 13.0 19.6#

70 0.0 8.7 13.1#

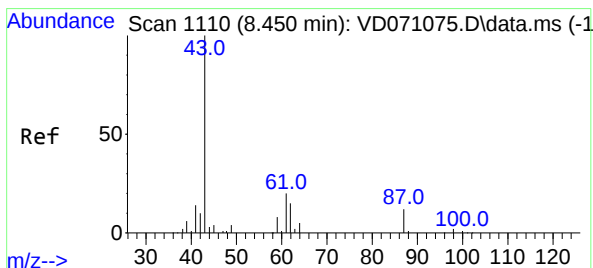
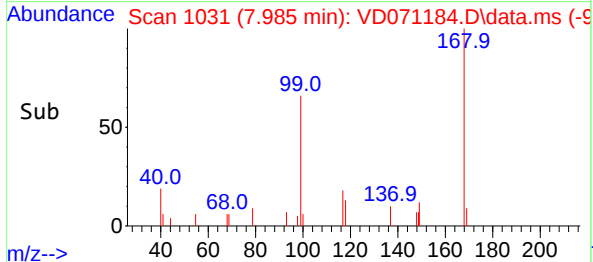
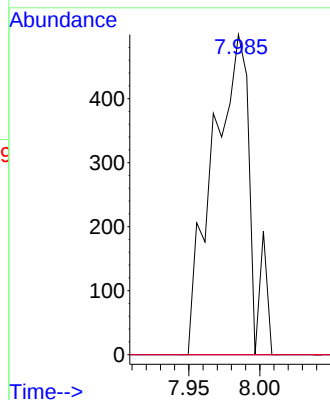
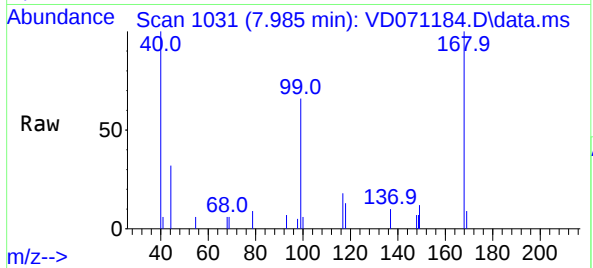




#38
Carbon Tetrachloride
Concen: 8.467 ug/l
RT: 7.985 min Scan# 110
Delta R.T. -0.112 min
Lab File: VD071184.D
Acq: 07 Dec 2021 15:36

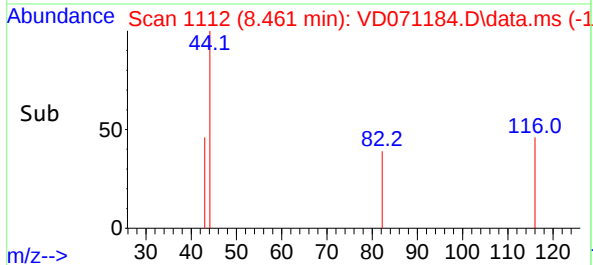
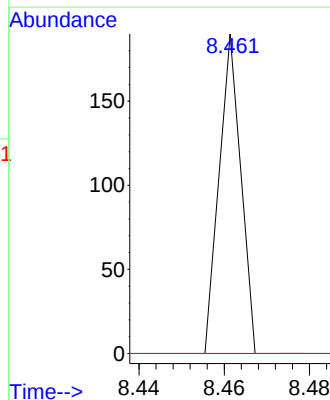
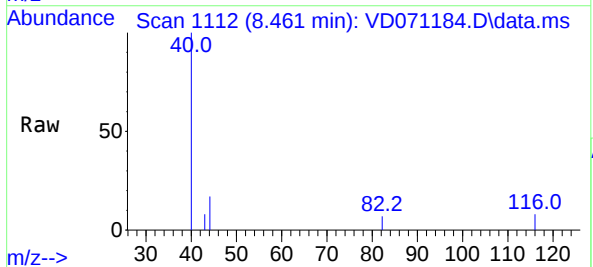
Instrument :
MSVOA_D
ClientSampleId :
2022

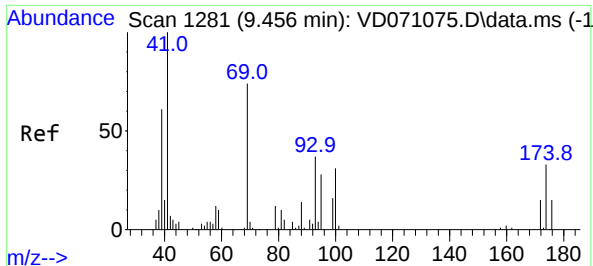
Tgt Ion:117 Resp: 925
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.6#
121 0.0 23.6 35.4#



#43
Isopropyl Acetate
Concen: 5.793 ug/l
RT: 8.461 min Scan# 1112
Delta R.T. 0.011 min
Lab File: VD071184.D
Acq: 07 Dec 2021 15:36

Tgt Ion: 43 Resp: 67
Ion Ratio Lower Upper
43 100
61 0.0 28.2 42.4#
87 0.0 10.7 16.1#





#48

Methyl methacrylate

Concen: 1.259 ug/l

RT: 9.408 min Scan# 11

Delta R.T. -0.048 min

Lab File: VD071184.D

Acq: 07 Dec 2021 15:36

Instrument :

MSVOA_D

ClientSampleId :

2022

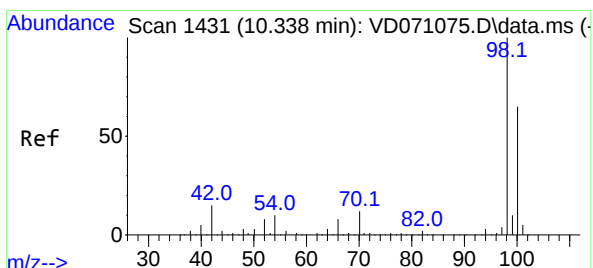
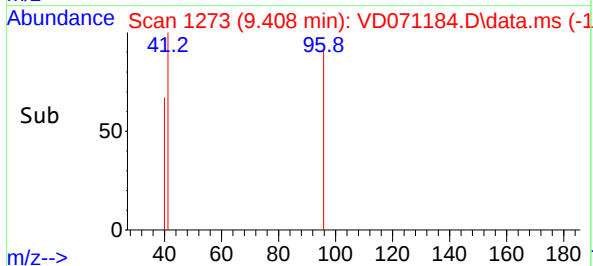
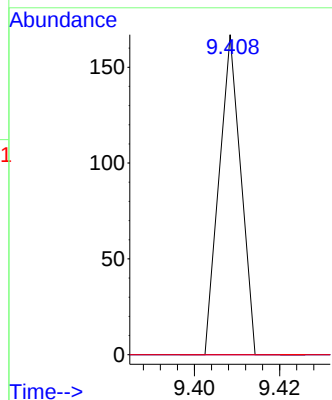
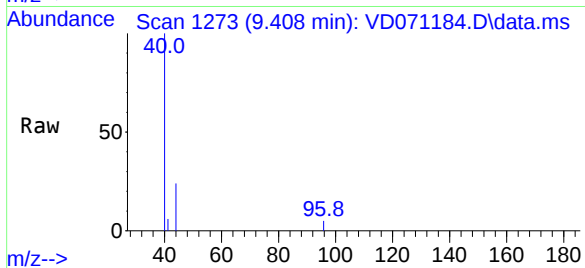
Tgt Ion: 41 Resp: 59

Ion Ratio Lower Upper

41 100

69 0.0 69.8 104.6#

39 0.0 35.6 53.4#



#50

Toluene-d8

Concen: 49.576 ug/l

RT: 10.338 min Scan# 1431

Delta R.T. -0.000 min

Lab File: VD071184.D

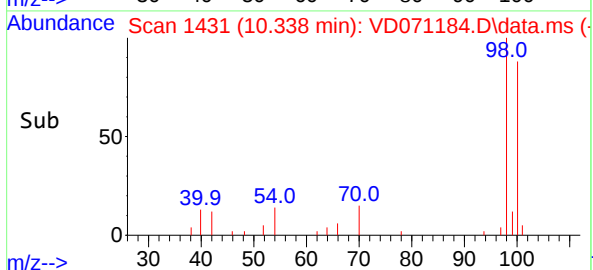
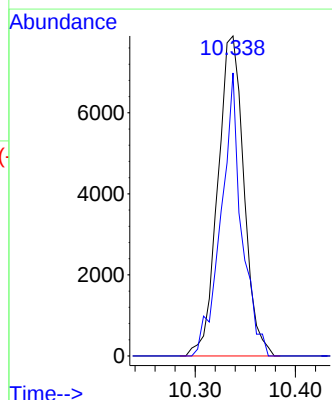
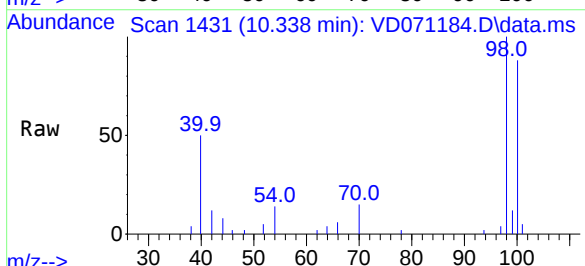
Acq: 07 Dec 2021 15:36

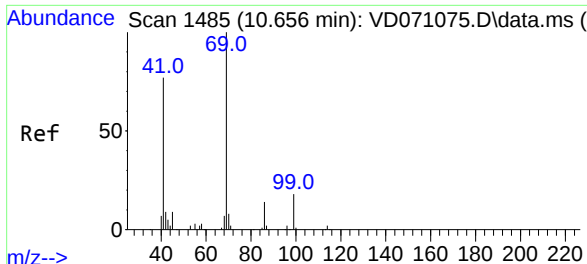
Tgt Ion: 98 Resp: 14246

Ion Ratio Lower Upper

98 100

100 70.0 51.8 77.6

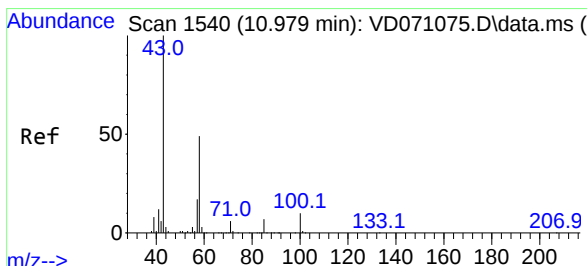
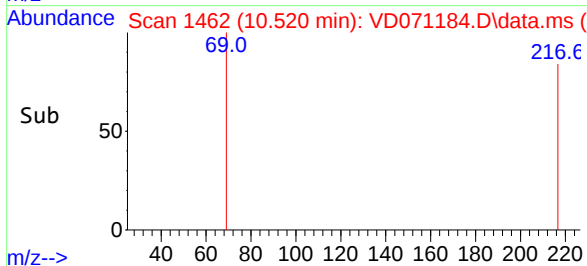
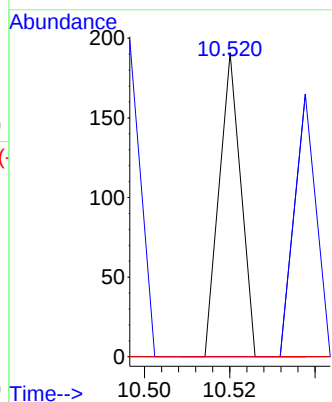
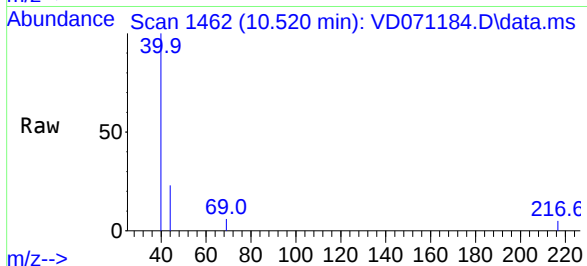




#56
Ethyl methacrylate
Concen: 6.731 ug/l
RT: 10.520 min Scan# 1485
Delta R.T. -0.136 min
Lab File: VD071184.D
Acq: 07 Dec 2021 15:36

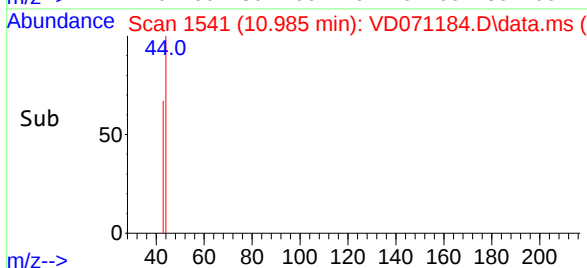
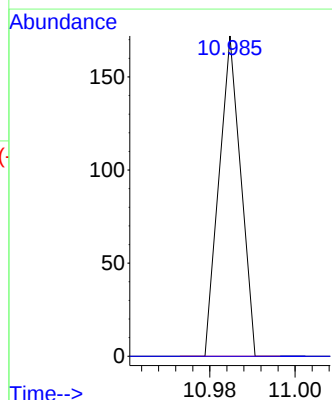
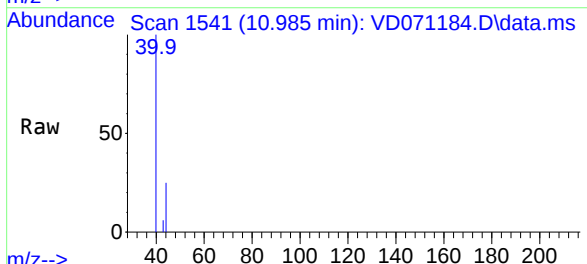
Instrument :
MSVOA_D
ClientSampleId :
2022

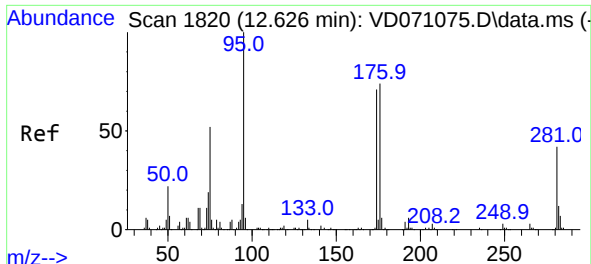
Tgt Ion: 69 Resp: 67
Ion Ratio Lower Upper
69 100
41 86.6 50.2 75.2#
39 0.0 19.8 29.8#



#59
2-Hexanone
Concen: 35.866 ug/l
RT: 10.985 min Scan# 1541
Delta R.T. 0.006 min
Lab File: VD071184.D
Acq: 07 Dec 2021 15:36

Tgt Ion: 43 Resp: 61
Ion Ratio Lower Upper
43 100
58 0.0 28.7 86.1#

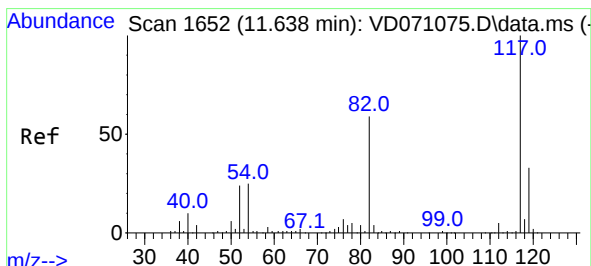
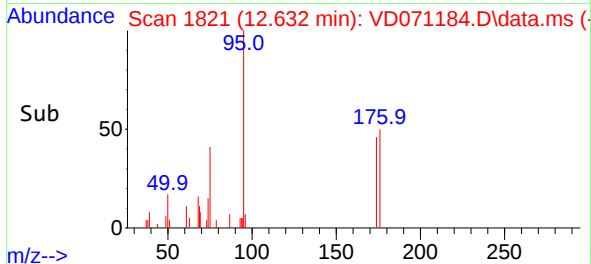
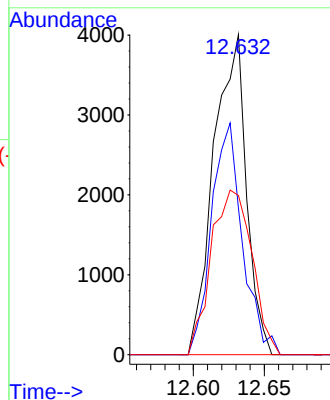
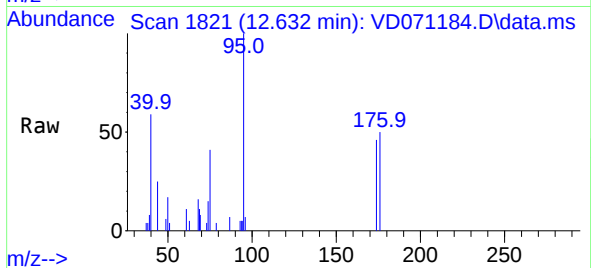




#62
4-Bromofluorobenzene
Concen: 64.051 ug/l
RT: 12.632 min Scan# 11
Delta R.T. 0.006 min
Lab File: VD071184.D
Acq: 07 Dec 2021 15:36

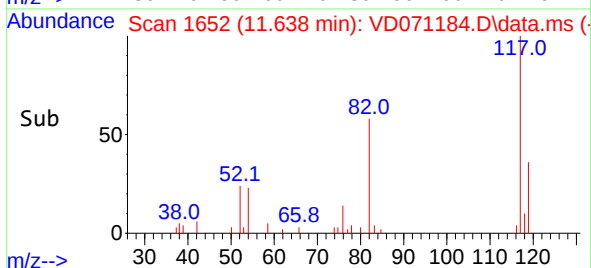
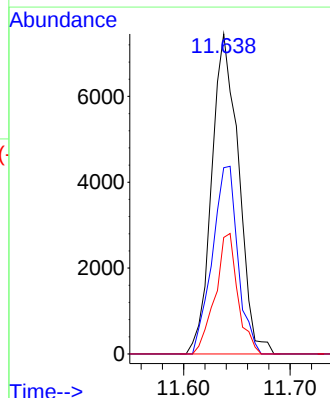
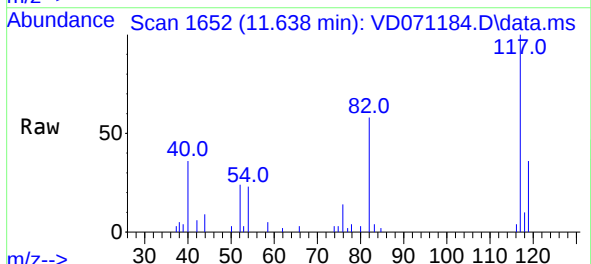
Instrument :
MSVOA_D
ClientSampleId :
2022

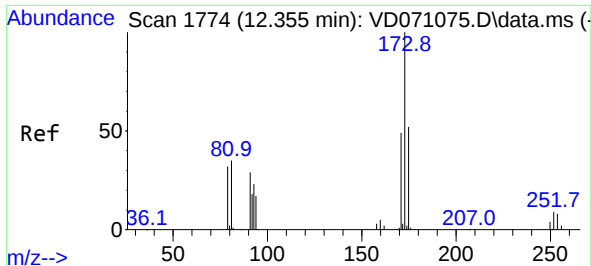
Tgt Ion:	95	Resp:	6380
Ion	Ratio	Lower	Upper
95	100		
174	68.9	0.0	159.4
176	64.5	0.0	154.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD071184.D
Acq: 07 Dec 2021 15:36

Tgt Ion:	117	Resp:	13051
Ion	Ratio	Lower	Upper
117	100		
82	58.2	44.7	67.1
119	36.4	26.2	39.4

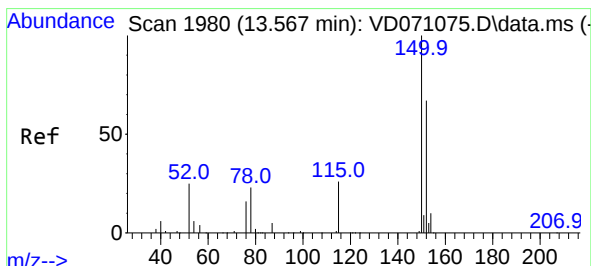
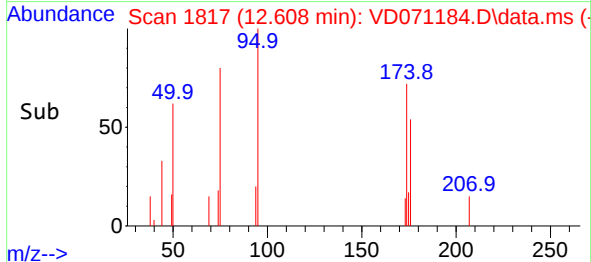
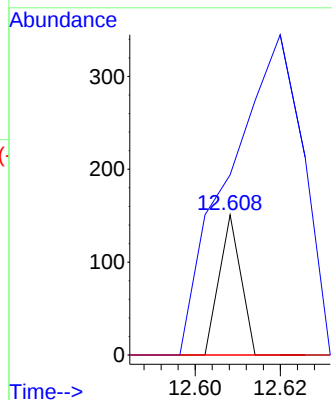
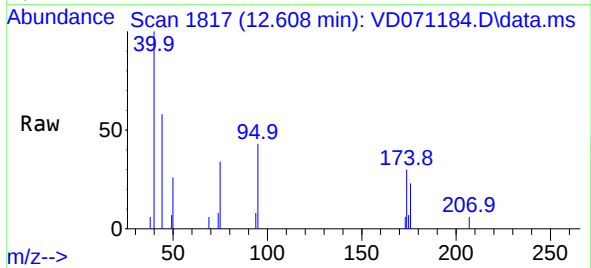




#71
Bromoform
Concen: 1.157 ug/l
RT: 12.608 min Scan# 11
Delta R.T. 0.253 min
Lab File: VD071184.D
Acq: 07 Dec 2021 15:36

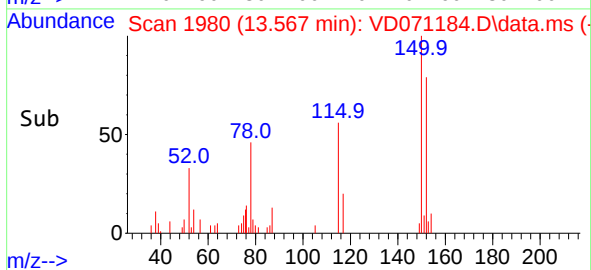
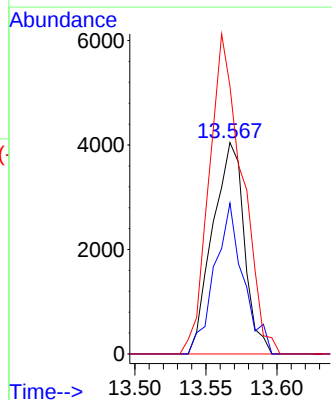
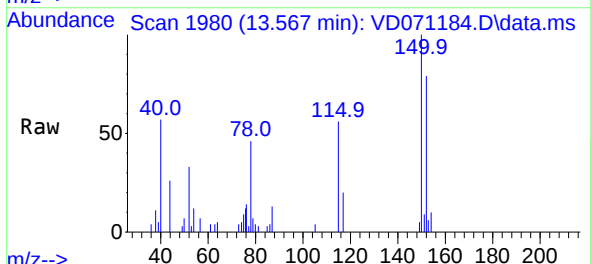
Instrument :
MSVOA_D
ClientSampleId :
2022

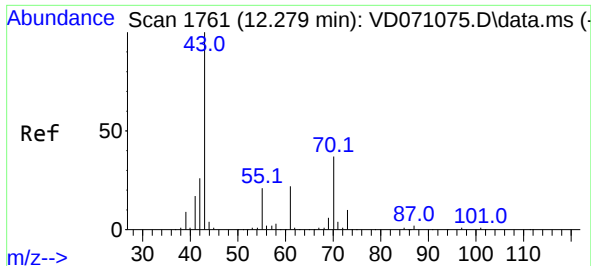
Tgt Ion:173 Resp: 53
Ion Ratio Lower Upper
173 100
175 783.0 24.1 72.2#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. -0.000 min
Lab File: VD071184.D
Acq: 07 Dec 2021 15:36

Tgt Ion:152 Resp: 6269
Ion Ratio Lower Upper
152 100
115 64.8 29.8 89.3
150 158.3 0.0 349.2

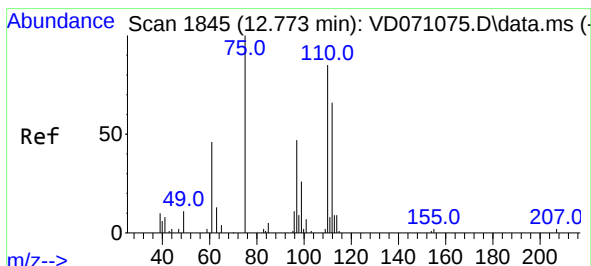
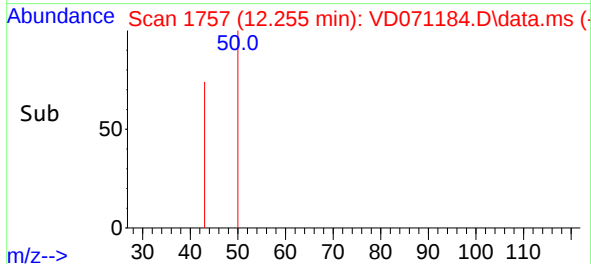
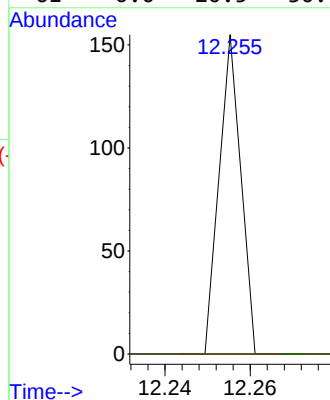
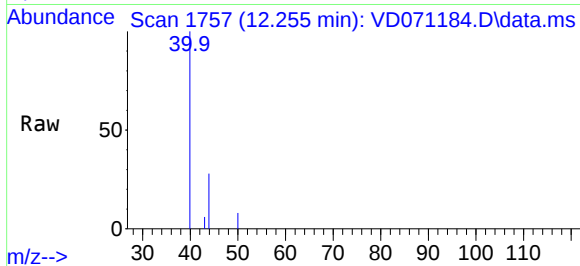




#74
N-amy1 acetate
Concen: 6.093 ug/l
RT: 12.255 min Scan# 11
Delta R.T. -0.024 min
Lab File: VD071184.D
Acq: 07 Dec 2021 15:36

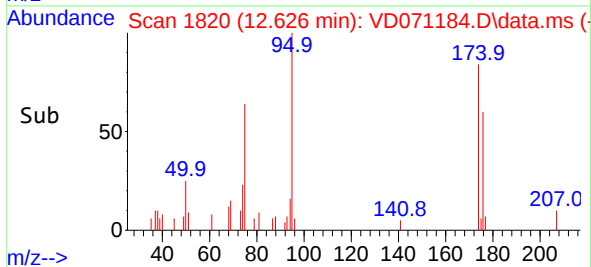
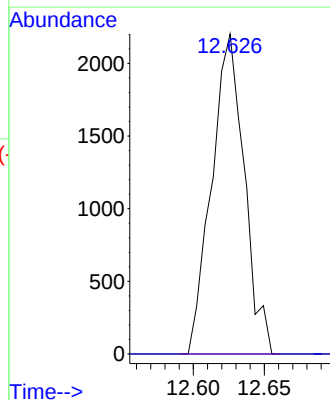
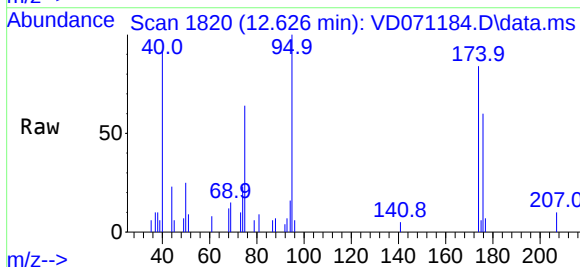
Instrument :
MSVOA_D
ClientSampleId :
2022

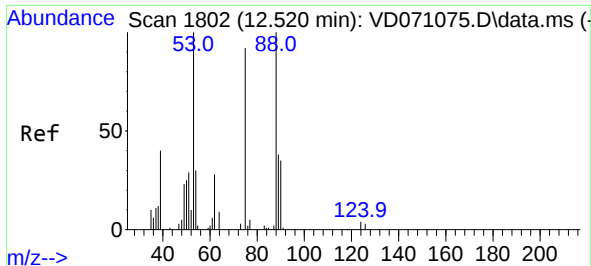
Tgt Ion: 43	Resp:	55
Ion	Ratio	Lower Upper
43	100	
70	0.0	36.6 55.0#
55	0.0	22.5 33.7#
61	0.0	20.5 30.7#



#76
1,2,3-Trichloropropane
Concen: 58.883 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD071184.D
Acq: 07 Dec 2021 15:36

Tgt Ion: 75	Resp:	3517
Ion	Ratio	Lower Upper
75	100	
77	0.0	158.4 475.3#

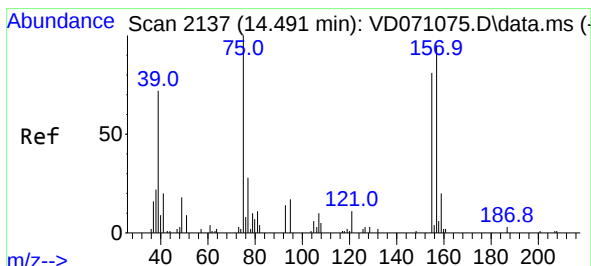
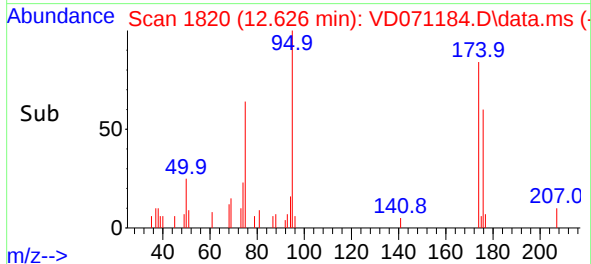
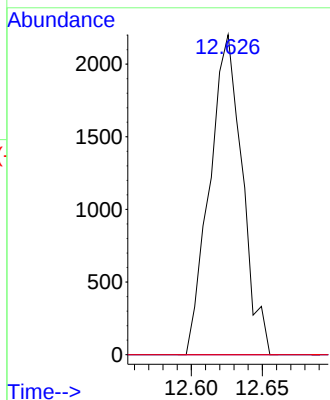
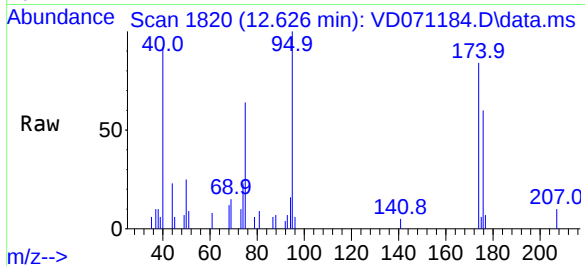




#81
trans-1,4-Dichloro-2-butene
Concen: 127.594 ug/l
RT: 12.626 min Scan# 11
Delta R.T. 0.106 min
Lab File: VD071184.D
Acq: 07 Dec 2021 15:36

Instrument :
MSVOA_D
ClientSampleId :
2022

Tgt Ion: 75 Resp: 3517
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: 4.518 ug/l
RT: 14.708 min Scan# 2174
Delta R.T. 0.217 min
Lab File: VD071184.D
Acq: 07 Dec 2021 15:36

Tgt Ion: 75 Resp: 55
Ion Ratio Lower Upper
75 100
155 0.0 40.0 120.0#
157 0.0 49.8 149.3#

