

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD122021\
 Data File : VD071399.D
 Acq On : 20 Dec 2021 20:11
 Operator : VA/SY
 Sample : VIBLK
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 20 20:56:46 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)

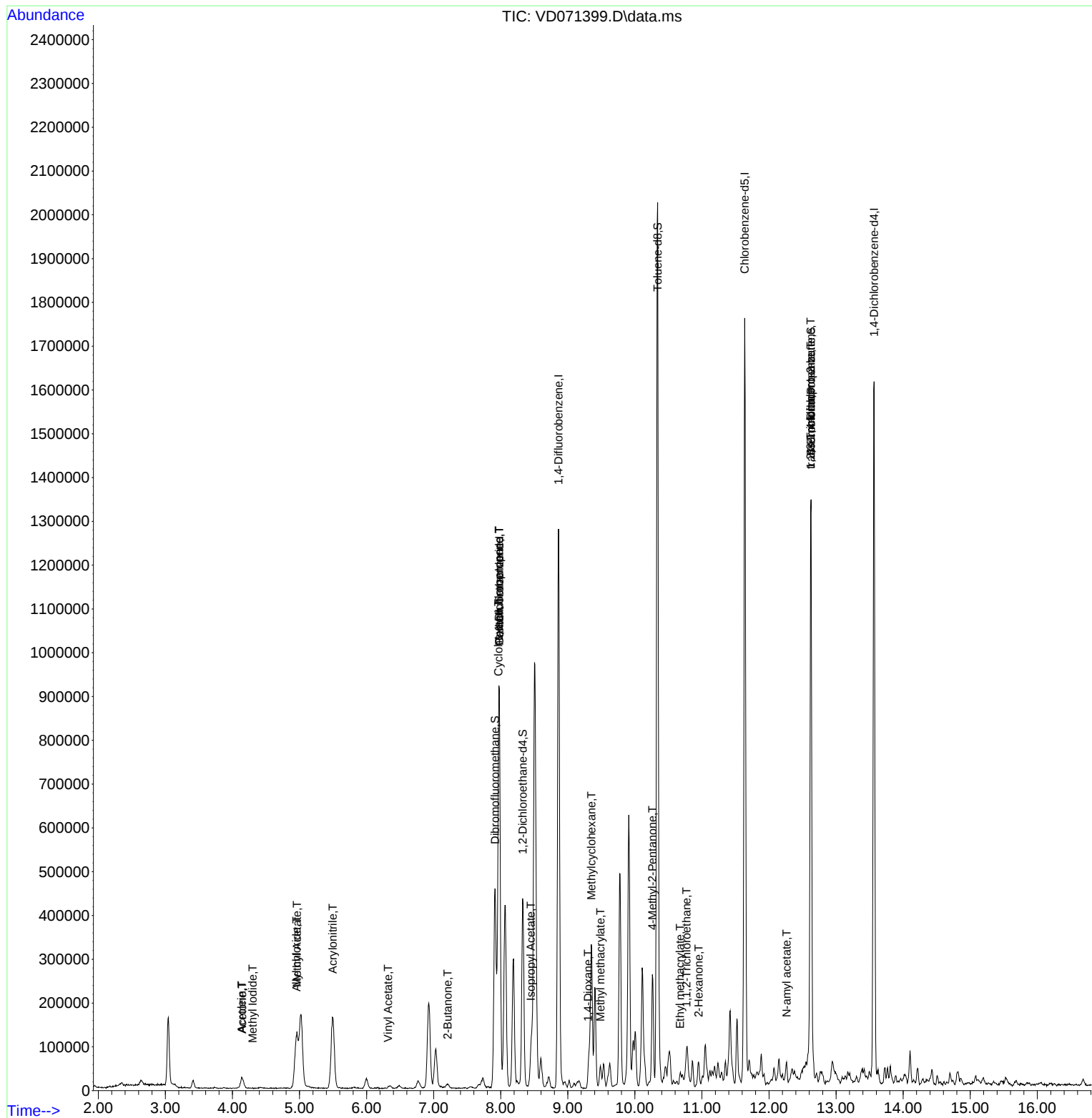
Internal Standards						
1) Pentafluorobenzene	7.979	168	582117	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	1006180	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	902227	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	395786	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	342879	50.198	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.400%			
35) Dibromofluoromethane	7.914	113	314527	49.089	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.180%			
50) Toluene-d8	10.338	98	1275676	52.319	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 104.640%			
62) 4-Bromofluorobenzene	12.626	95	423564	50.114	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 100.220%			
Target Compounds					Qvalue	
10) Methyl Iodide	4.303	142	101	4.574	ug/l #	78
11) Tert butyl alcohol	5.185	59	695	Below Cal	#	71
13) Acrolein	4.138	56	5579	11.952	ug/l #	80
14) Allyl chloride	4.956	41	49742	4.846	ug/l #	66
15) Acrylonitrile	5.497	53	5699	4.355	ug/l #	42
16) Acetone	4.144	43	16385	38.717	ug/l #	53
18) Methyl Acetate	4.962	43	105170	20.869	ug/l #	51
20) Methylene Chloride	4.968	84	23568	Below Cal		93
23) Vinyl Acetate	6.320	43	108	27.227	ug/l #	72
25) 2-Butanone	7.209	43	4322	30.188	ug/l #	45
31) Cyclohexane	7.967	56	60299	5.190	ug/l #	72
36) 1,1-Dichloropropene	7.973	75	50346	5.354	ug/l #	50
38) Carbon Tetrachloride	7.979	117	60452	6.521	ug/l #	16
39) Methylcyclohexane	9.350	83	57636	5.096	ug/l #	77
41) Methacrylonitrile	7.532	41	557	Below Cal	#	21
43) Isopropyl Acetate	8.450	43	22340	7.461	ug/l #	47
48) Methyl methacrylate	9.485	41	13030	3.277	ug/l #	32
49) 1,4-Dioxane	9.303	88	64	1.902	ug/l #	23
51) 4-Methyl-2-Pentanone	10.261	43	33127	36.997	ug/l #	74
55) 1,1,2-Trichloroethane	10.767	97	20328	4.446	ug/l #	30
56) Ethyl methacrylate	10.673	69	2051	6.245	ug/l #	1
59) 2-Hexanone	10.950	43	22213	40.120	ug/l #	26
71) Bromoform	12.626	173	3755	1.186	ug/l #	1
74) N-amyl acetate	12.261	43	11130	6.958	ug/l #	40
76) 1,2,3-Trichloropropane	12.620	75	229403	60.835	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.620	75	229403	131.633	ug/l #	18

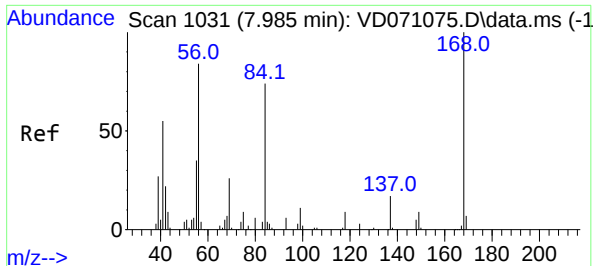
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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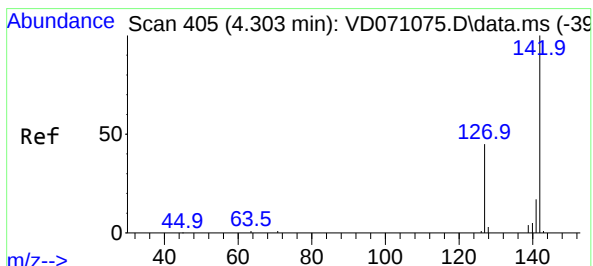
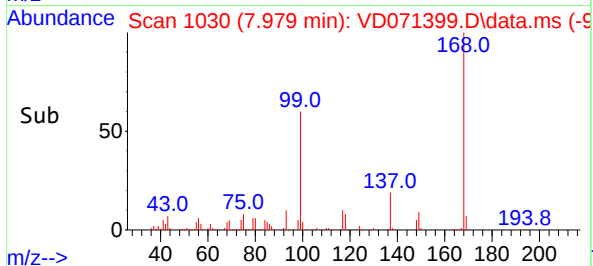
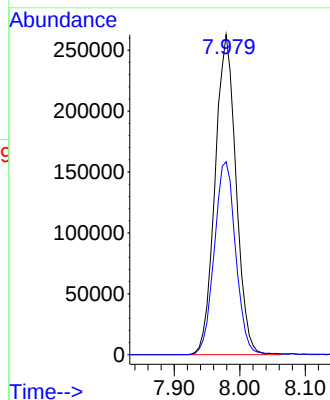
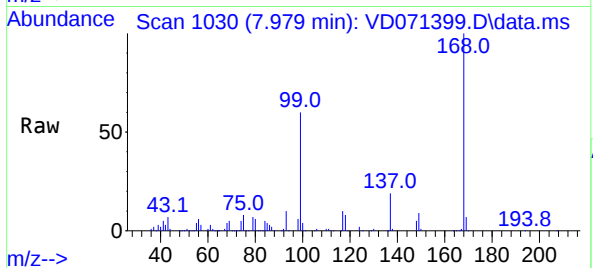




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1031
Delta R.T. -0.006 min
Lab File: VD071399.D
Acq: 20 Dec 2021 20:11

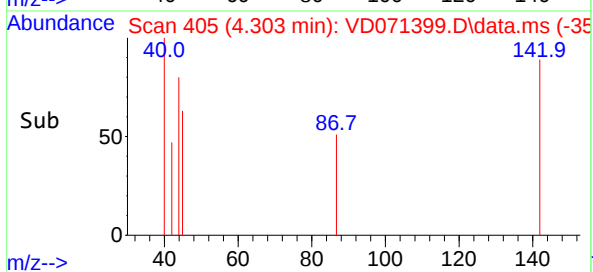
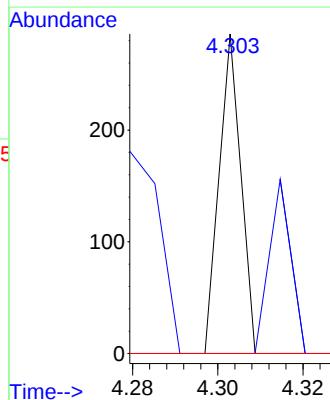
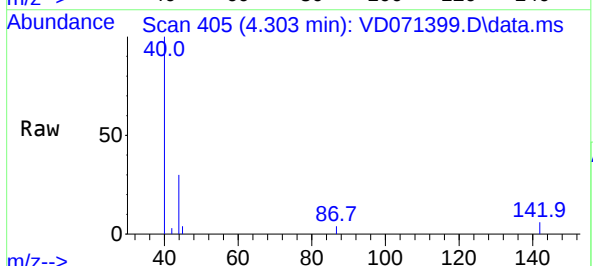
Instrument :
MSVOA_D
ClientSampleId :

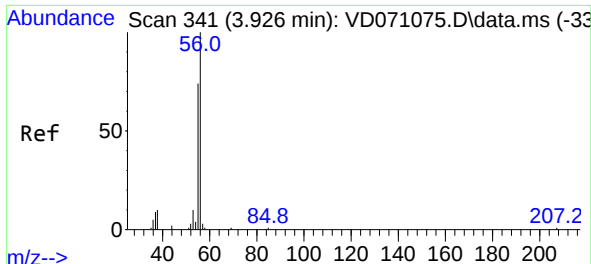
Tgt Ion:168 Resp: 582117
Ion Ratio Lower Upper
168 100
99 60.2 46.6 69.8



#10
Methyl Iodide
Concen: 4.574 ug/l
RT: 4.303 min Scan# 405
Delta R.T. -0.000 min
Lab File: VD071399.D
Acq: 20 Dec 2021 20:11

Tgt Ion:142 Resp: 101
Ion Ratio Lower Upper
142 100
127 54.5 35.0 52.4#
141 0.0 12.0 18.0#

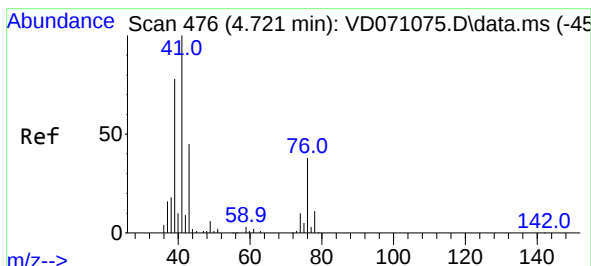
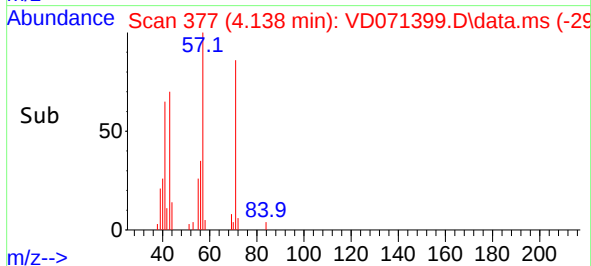
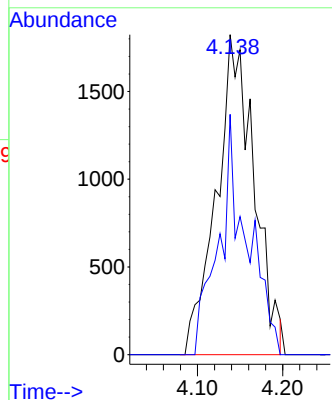
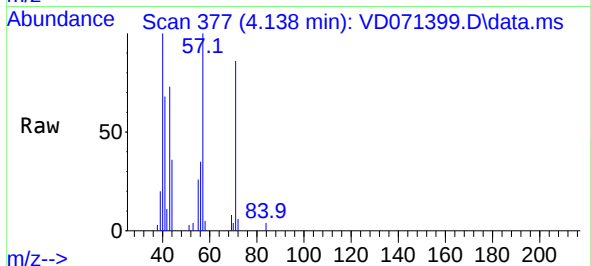




#13
Acrolein
Concen: 11.952 ug/l
RT: 4.138 min Scan# 31
Delta R.T. 0.212 min
Lab File: VD071399.D
Acq: 20 Dec 2021 20:11

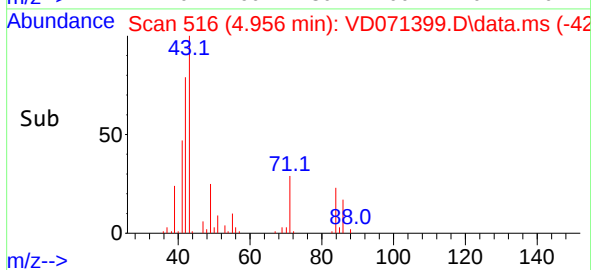
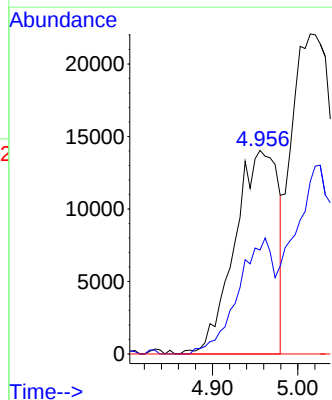
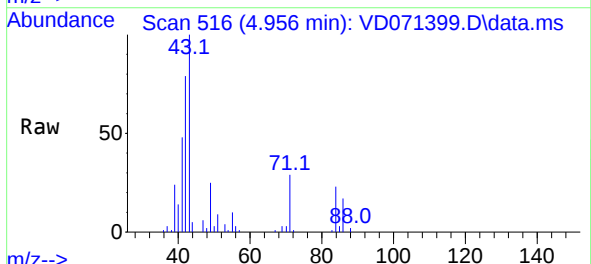
Instrument :
MSVOA_D
ClientSampleId :

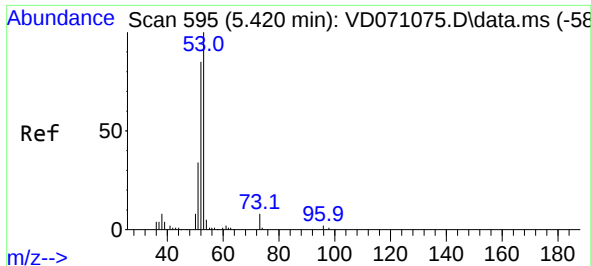
Tgt Ion: 56 Resp: 5579
Ion Ratio Lower Upper
56 100
55 56.4 58.6 87.8#



#14
Allyl chloride
Concen: 4.846 ug/l
RT: 4.956 min Scan# 516
Delta R.T. 0.235 min
Lab File: VD071399.D
Acq: 20 Dec 2021 20:11

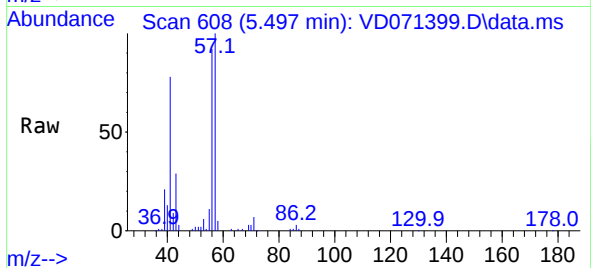
Tgt Ion: 41 Resp: 49742
Ion Ratio Lower Upper
41 100
39 46.2 45.6 68.4
76 0.0 30.2 45.4#



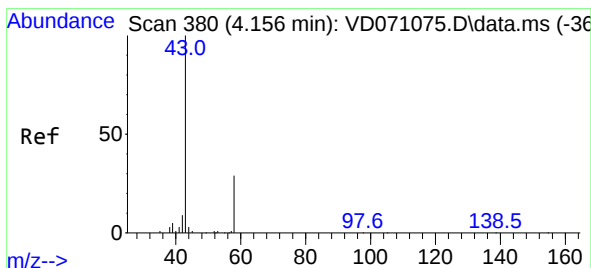
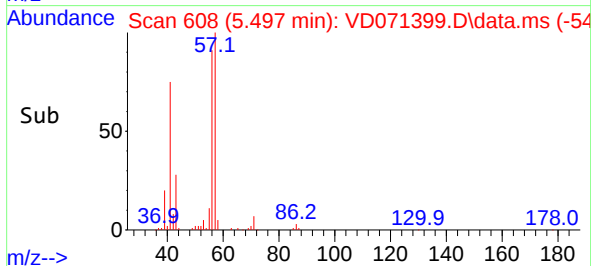
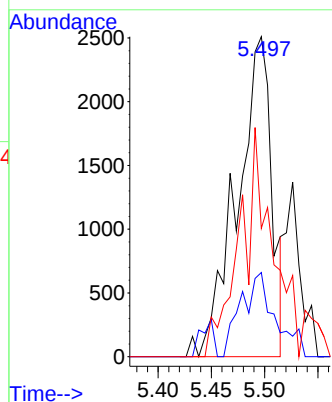


#15
Acrylonitrile
Concen: 4.355 ug/l
RT: 5.497 min Scan# 60
Delta R.T. 0.077 min
Lab File: VD071399.D
Acq: 20 Dec 2021 20:11

Instrument :
MSVOA_D
ClientSampleId :

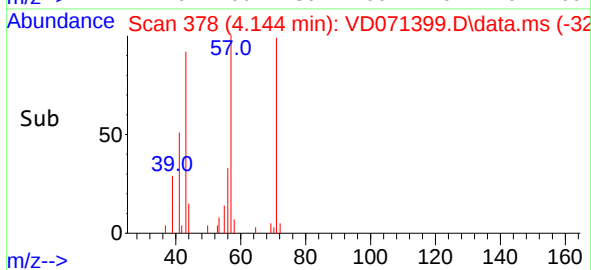
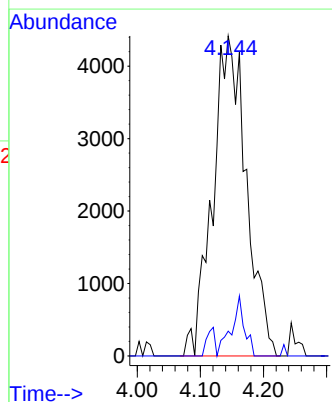
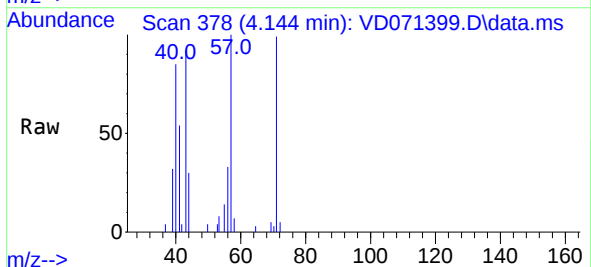


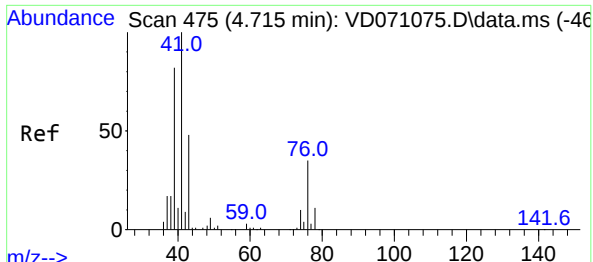
Tgt Ion: 53 Resp: 5699
Ion Ratio Lower Upper
53 100
52 25.9 63.8 95.8#
51 65.7 28.5 42.7#



#16
Acetone
Concen: 38.717 ug/l
RT: 4.144 min Scan# 378
Delta R.T. -0.012 min
Lab File: VD071399.D
Acq: 20 Dec 2021 20:11

Tgt Ion: 43 Resp: 16385
Ion Ratio Lower Upper
43 100
58 7.8 27.8 41.8#

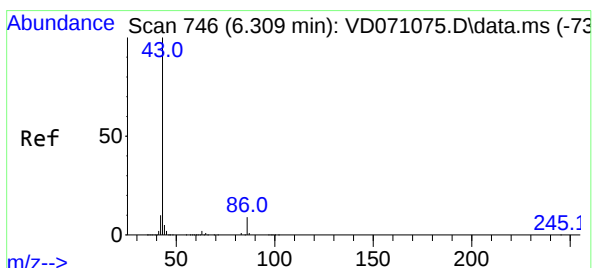
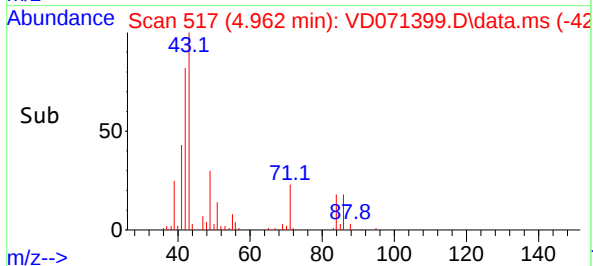
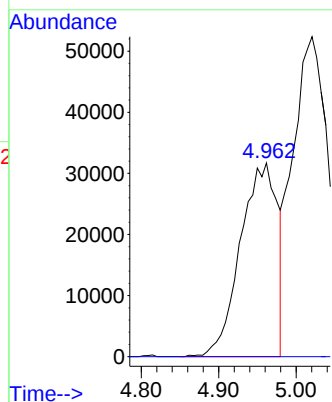
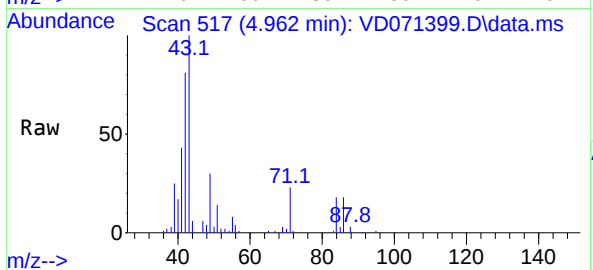




#18
Methyl Acetate
Concen: 20.869 ug/l
RT: 4.962 min Scan# 517
Delta R.T. 0.247 min
Lab File: VD071399.D
Acq: 20 Dec 2021 20:11

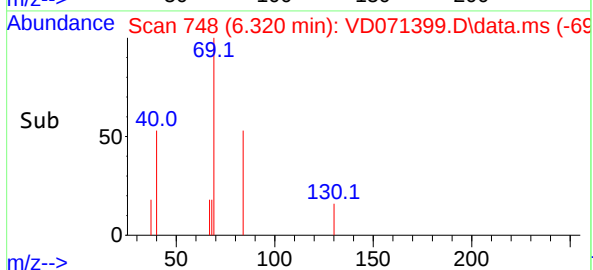
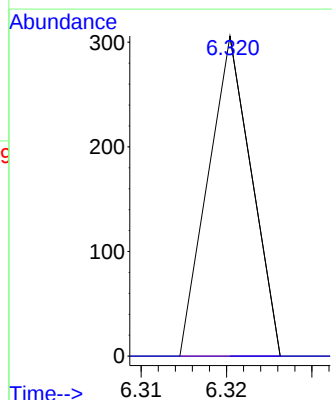
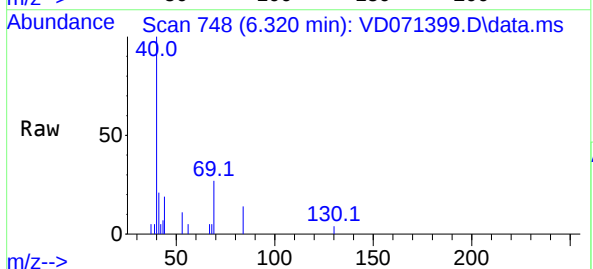
Instrument :
MSVOA_D
ClientSampleId :

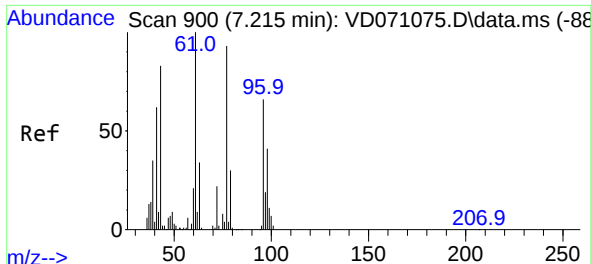
Tgt Ion: 43 Resp: 105170
Ion Ratio Lower Upper
43 100
74 0.0 19.3 28.9#



#23
Vinyl Acetate
Concen: 27.227 ug/l
RT: 6.320 min Scan# 748
Delta R.T. 0.011 min
Lab File: VD071399.D
Acq: 20 Dec 2021 20:11

Tgt Ion: 43 Resp: 108
Ion Ratio Lower Upper
43 100
86 0.0 8.2 12.4#

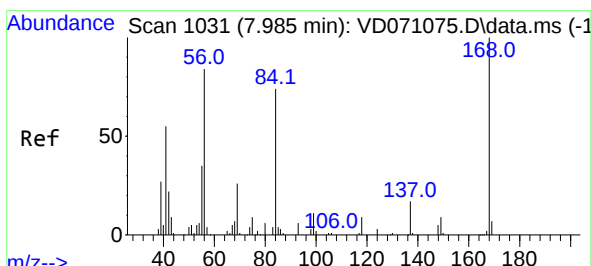
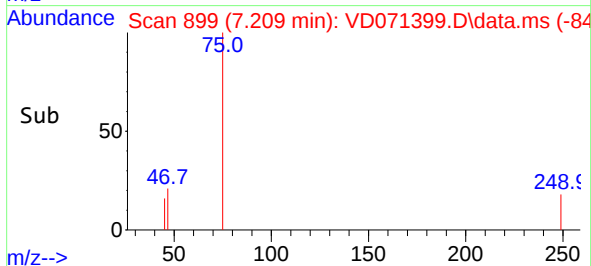
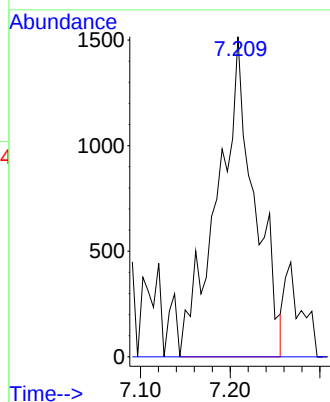
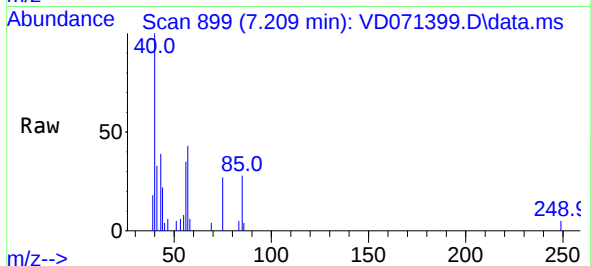




#25
2-Butanone
Concen: 30.188 ug/l
RT: 7.209 min Scan# 899
Delta R.T. -0.006 min
Lab File: VD071399.D
Acq: 20 Dec 2021 20:11

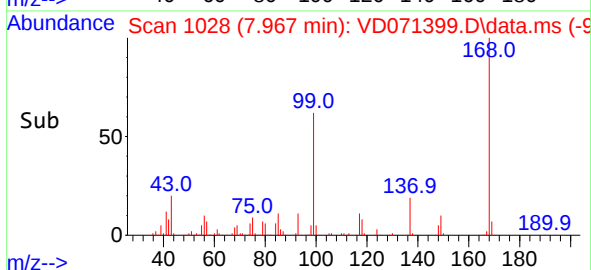
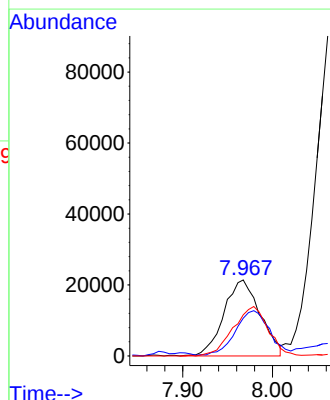
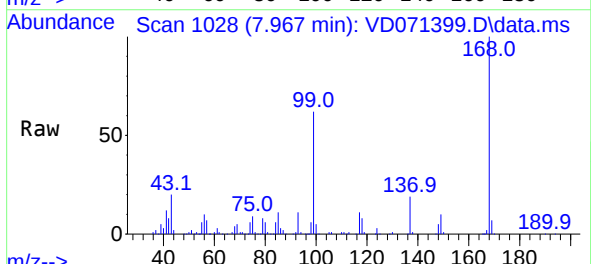
Instrument :
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ClientSampleId :

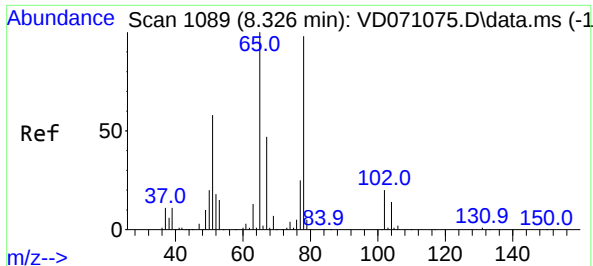
Tgt Ion: 43 Resp: 4322
Ion Ratio Lower Upper
43 100
72 0.0 23.8 35.6#



#31
Cyclohexane
Concen: 5.190 ug/l
RT: 7.967 min Scan# 1028
Delta R.T. -0.018 min
Lab File: VD071399.D
Acq: 20 Dec 2021 20:11

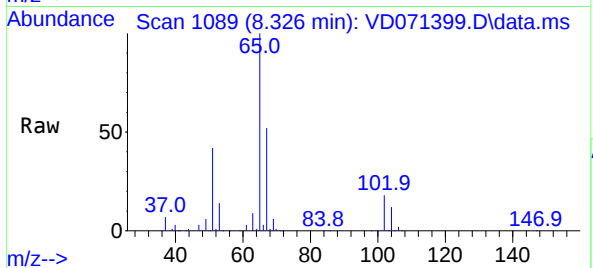
Tgt Ion: 56 Resp: 60299
Ion Ratio Lower Upper
56 100
69 45.5 25.9 38.9#
84 54.1 64.3 96.5#



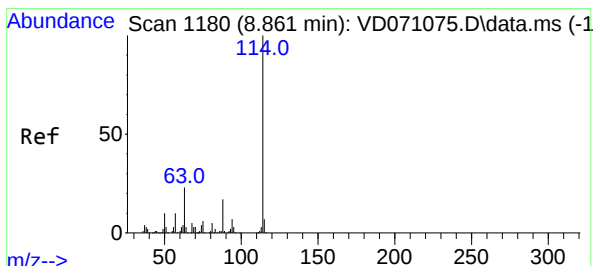
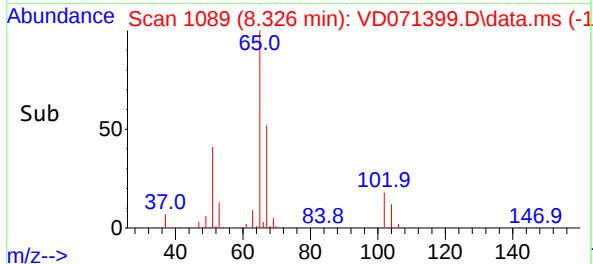
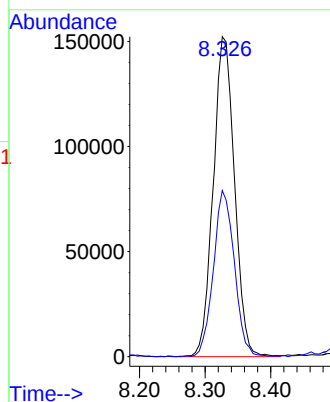


#33
 1,2-Dichloroethane-d4
 Concen: 50.198 ug/l
 RT: 8.326 min Scan# 1089
 Delta R.T. 0.000 min
 Lab File: VD071399.D
 Acq: 20 Dec 2021 20:11

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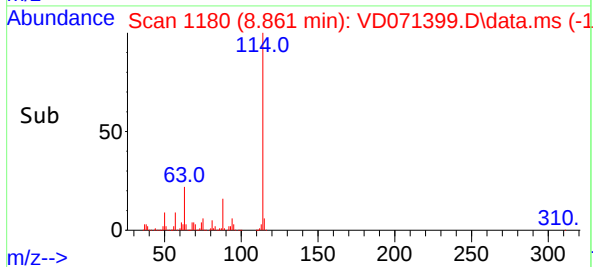
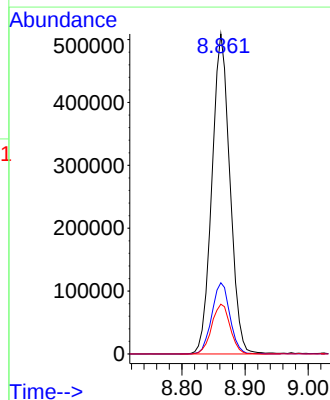
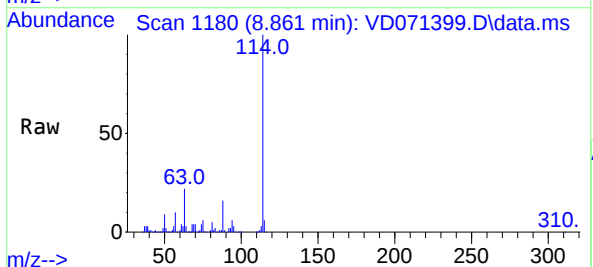


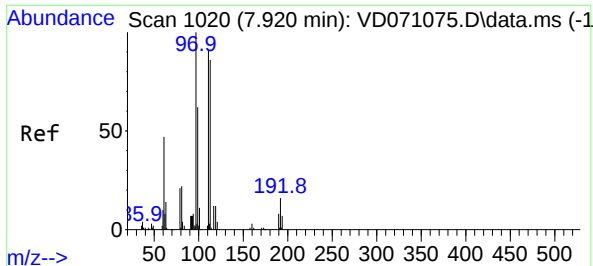
Tgt Ion: 65 Resp: 342879
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 112.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.861 min Scan# 1180
 Delta R.T. 0.000 min
 Lab File: VD071399.D
 Acq: 20 Dec 2021 20:11

Tgt Ion: 114 Resp: 1006180
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 41.8
 88 15.6 0.0 32.8





#35

Dibromofluoromethane

Concen: 49.089 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. -0.006 min

Lab File: VD071399.D

Acq: 20 Dec 2021 20:11

Instrument :

MSVOA_D

ClientSampleId :

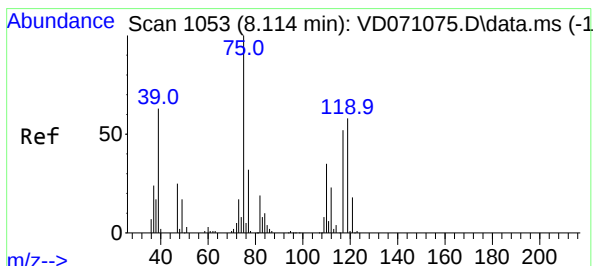
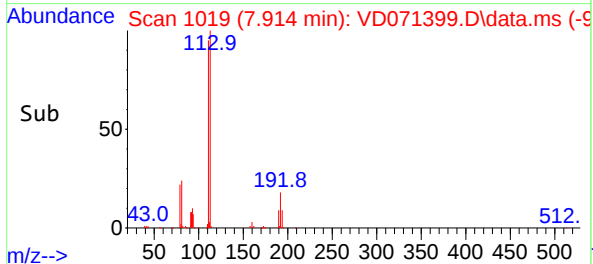
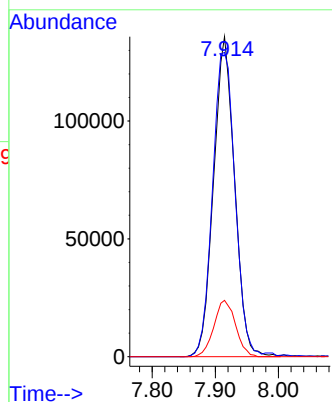
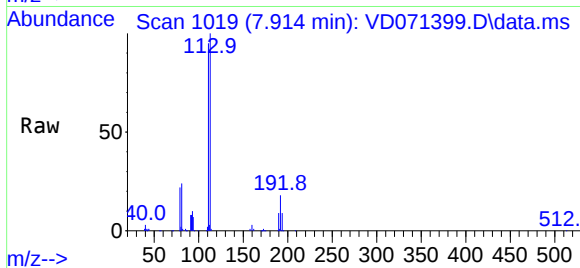
Tgt Ion:113 Resp: 314527

Ion Ratio Lower Upper

113 100

111 101.7 82.0 123.0

192 18.1 15.2 22.8



#36

1,1-Dichloropropene

Concen: 5.354 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.141 min

Lab File: VD071399.D

Acq: 20 Dec 2021 20:11

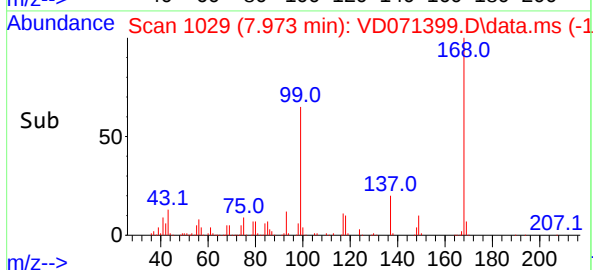
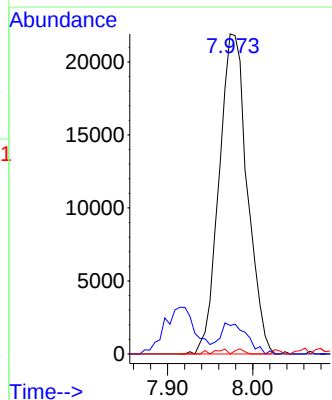
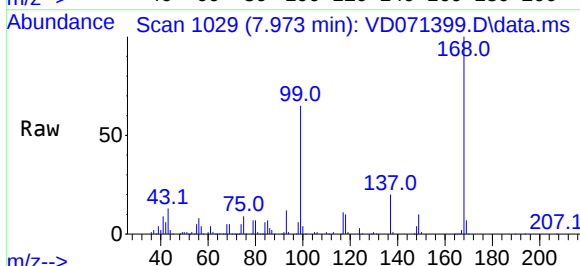
Tgt Ion: 75 Resp: 50346

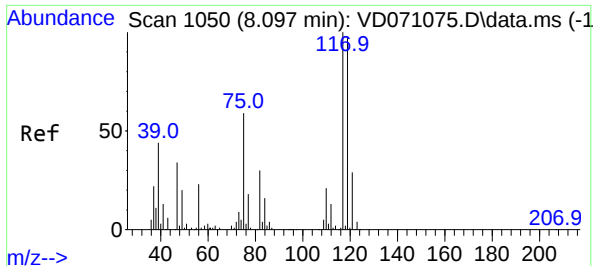
Ion Ratio Lower Upper

75 100

110 9.3 17.8 53.4#

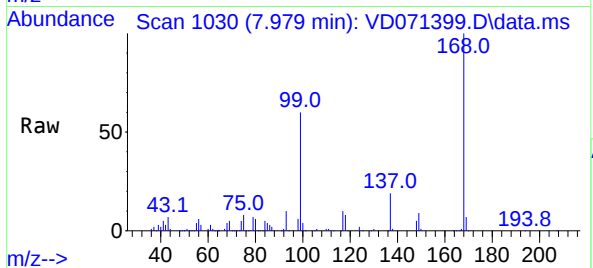
77 0.7 24.8 37.2#



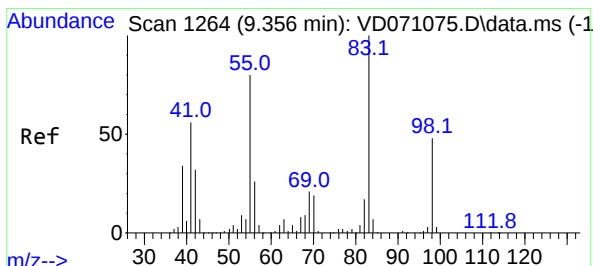
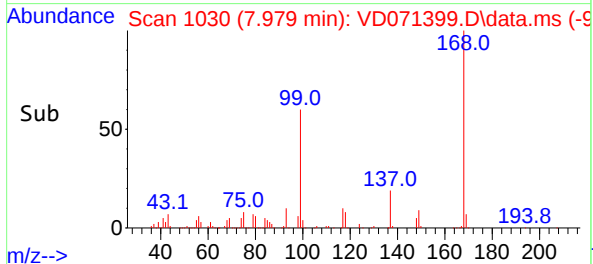
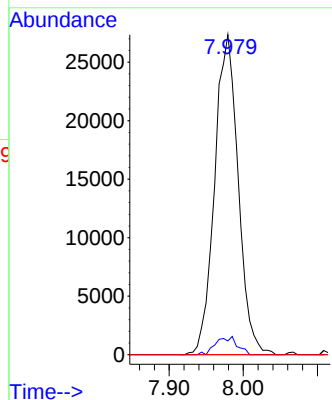


#38
Carbon Tetrachloride
Concen: 6.521 ug/l
RT: 7.979 min Scan# 10
Delta R.T. -0.118 min
Lab File: VD071399.D
Acq: 20 Dec 2021 20:11

Instrument :
MSVOA_D
ClientSampleId :

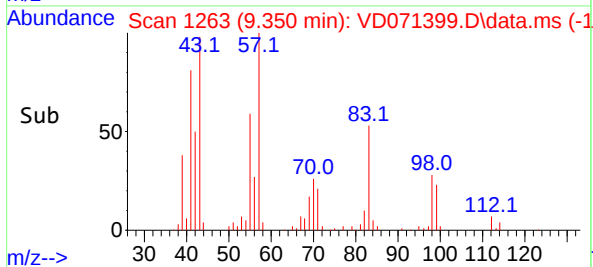
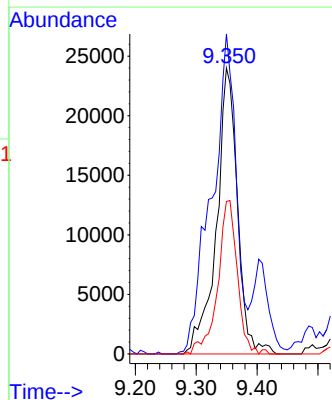
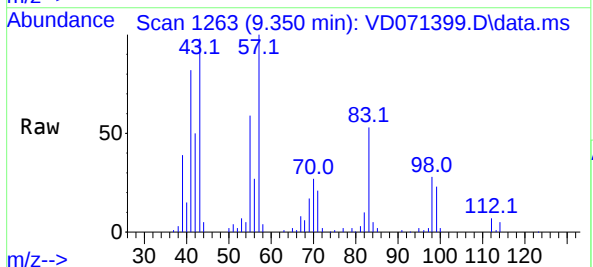


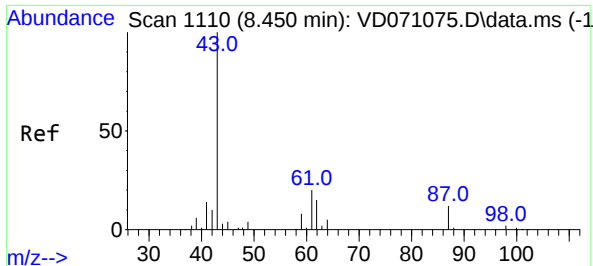
Tgt Ion:117 Resp: 60452
Ion Ratio Lower Upper
117 100
119 4.3 75.8 113.6#
121 0.0 23.6 35.4#



#39
Methylcyclohexane
Concen: 5.096 ug/l
RT: 9.350 min Scan# 1263
Delta R.T. -0.006 min
Lab File: VD071399.D
Acq: 20 Dec 2021 20:11

Tgt Ion: 83 Resp: 57636
Ion Ratio Lower Upper
83 100
55 111.2 65.8 98.8#
98 53.3 38.7 58.1





#43

Isopropyl Acetate

Concen: 7.461 ug/l

RT: 8.450 min Scan# 1110

Delta R.T. -0.000 min

Lab File: VD071399.D

Acq: 20 Dec 2021 20:11

Instrument :

MSVOA_D

ClientSampleId :

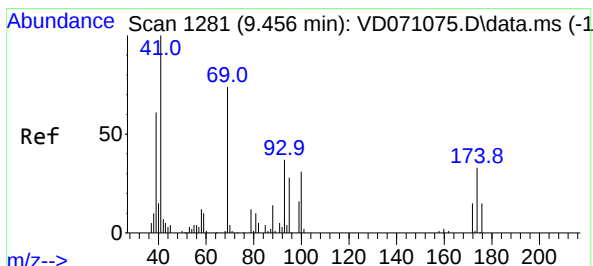
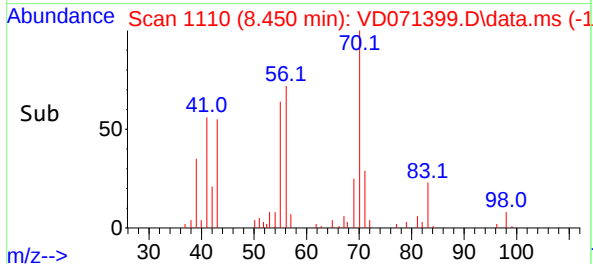
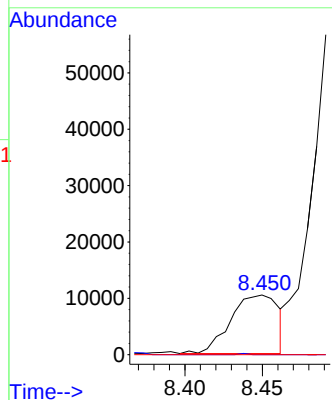
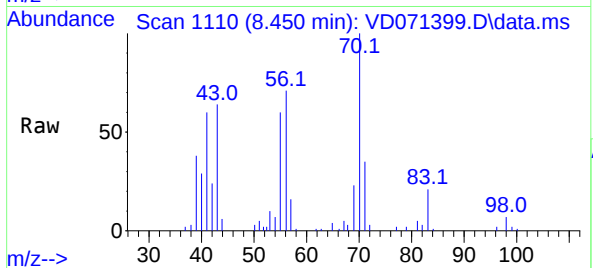
Tgt Ion: 43 Resp: 22340

Ion Ratio Lower Upper

43 100

61 0.0 28.2 42.4#

87 0.0 10.7 16.1#



#48

Methyl methacrylate

Concen: 3.277 ug/l

RT: 9.485 min Scan# 1286

Delta R.T. 0.029 min

Lab File: VD071399.D

Acq: 20 Dec 2021 20:11

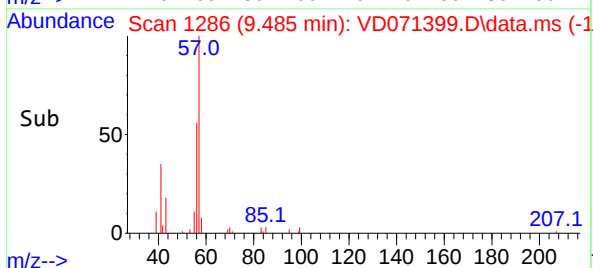
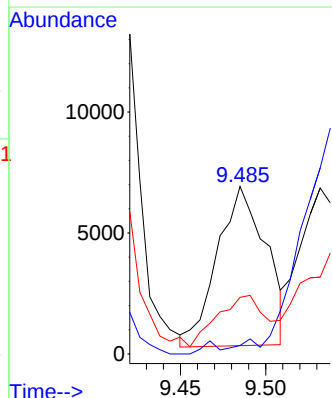
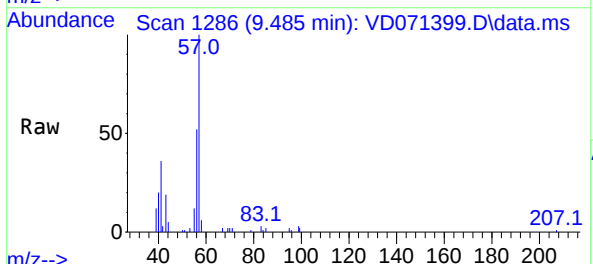
Tgt Ion: 41 Resp: 13030

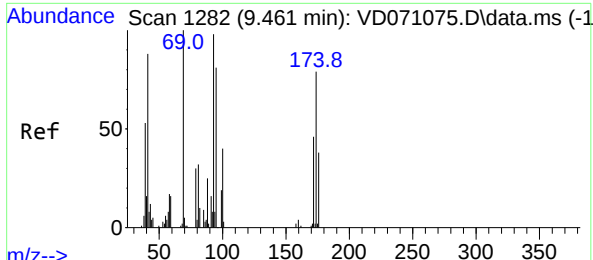
Ion Ratio Lower Upper

41 100

69 0.0 69.8 104.6#

39 33.2 35.6 53.4#

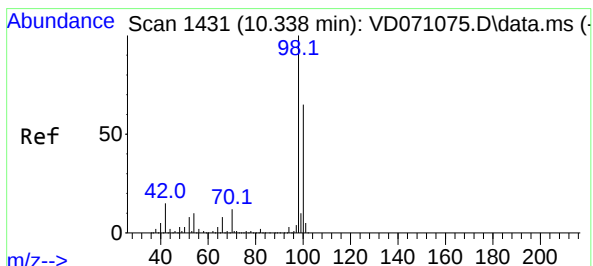
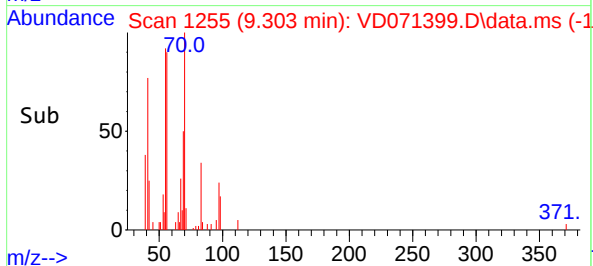
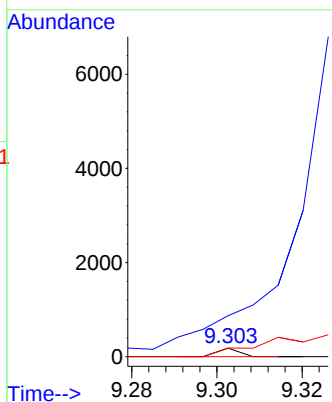
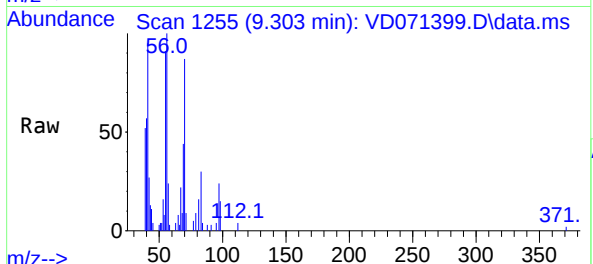




#49
1,4-Dioxane
Concen: 1.902 ug/l
RT: 9.303 min Scan# 11
Delta R.T. -0.158 min
Lab File: VD071399.D
Acq: 20 Dec 2021 20:11

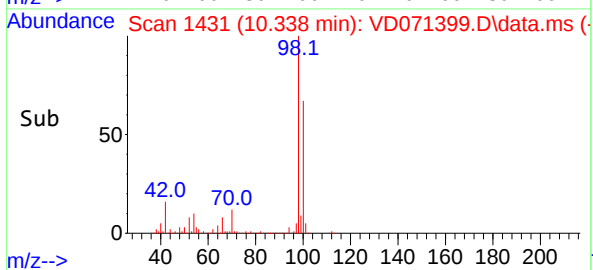
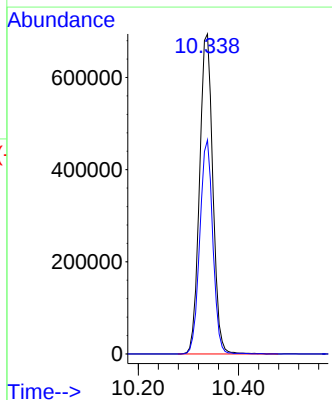
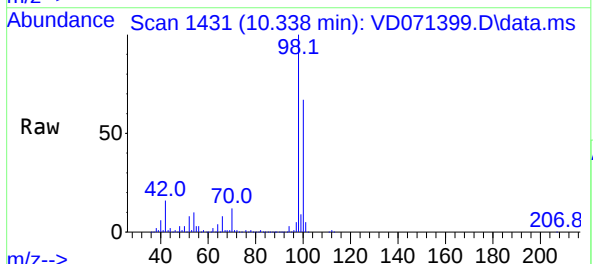
Instrument :
MSVOA_D
ClientSampleId :

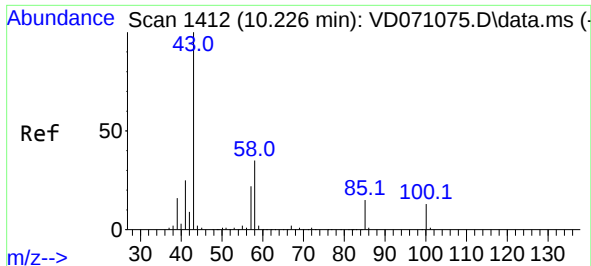
Tgt Ion:	88	Resp:	64
Ion	Ratio	Lower	Upper
88	100		
43	0.0	28.9	43.3#
58	0.0	56.3	84.5#



#50
Toluene-d8
Concen: 52.319 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD071399.D
Acq: 20 Dec 2021 20:11

Tgt Ion:	98	Resp:	1275676
Ion	Ratio	Lower	Upper
98	100		
100	65.4	51.8	77.6





#51

4-Methyl-2-Pentanone

Concen: 36.997 ug/l

RT: 10.261 min Scan# 1412

Delta R.T. 0.035 min

Lab File: VD071399.D

Acq: 20 Dec 2021 20:11

Instrument :

MSVOA_D

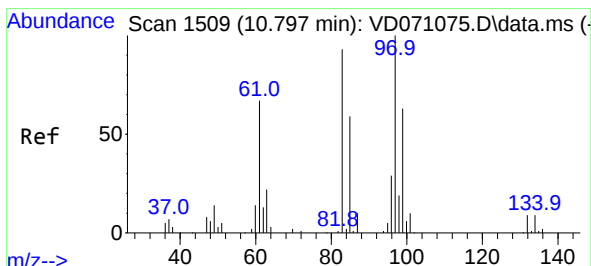
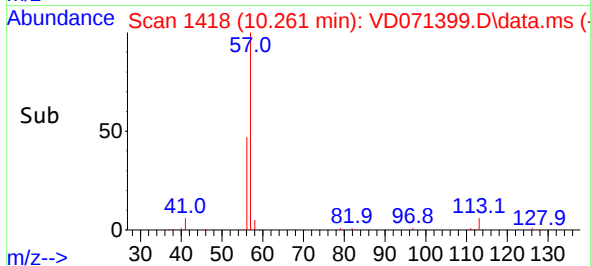
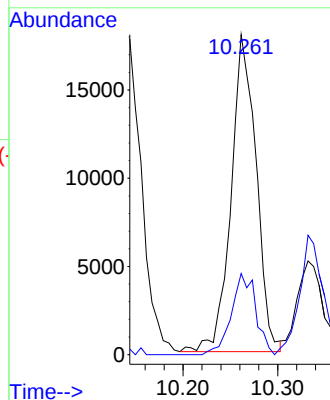
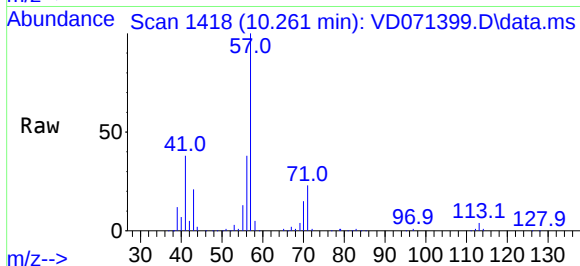
ClientSampleId :

Tgt Ion: 43 Resp: 33127

Ion Ratio Lower Upper

43 100

58 24.9 33.1 49.7#



#55

1,1,2-Trichloroethane

Concen: 4.446 ug/l

RT: 10.767 min Scan# 1504

Delta R.T. -0.030 min

Lab File: VD071399.D

Acq: 20 Dec 2021 20:11

Tgt Ion: 97 Resp: 20328

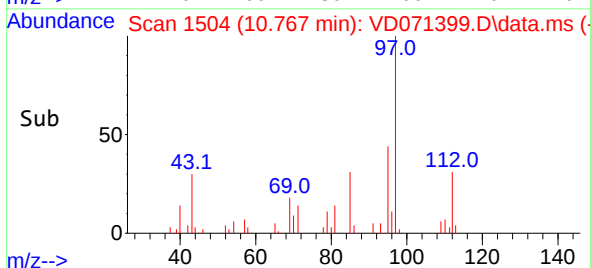
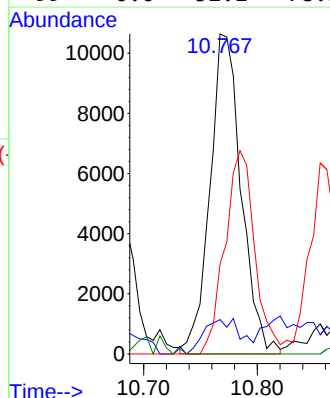
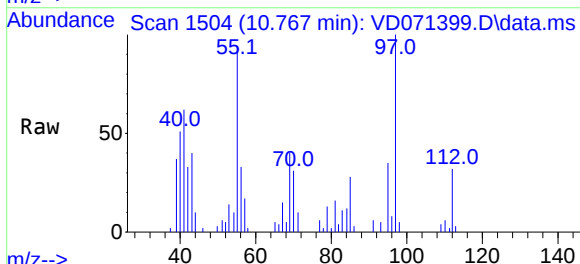
Ion Ratio Lower Upper

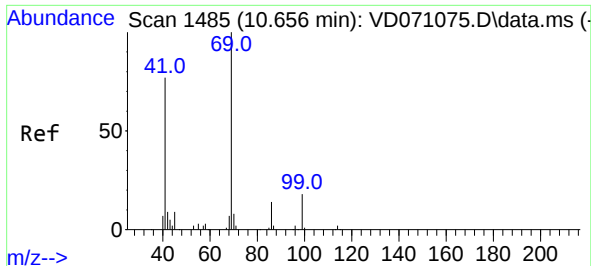
97 100

83 8.5 65.2 97.8#

85 28.6 43.4 65.0#

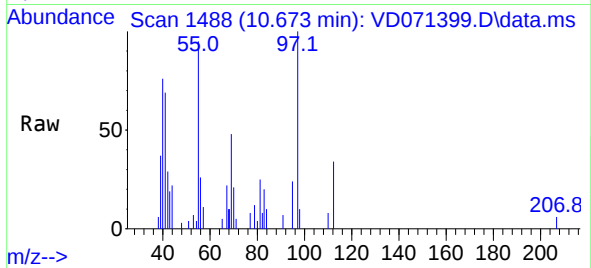
99 0.0 52.1 78.1#



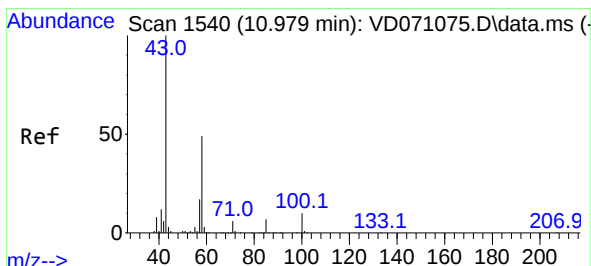
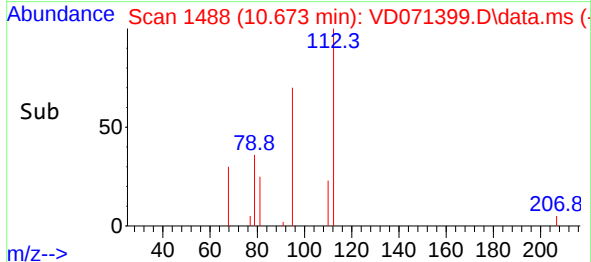
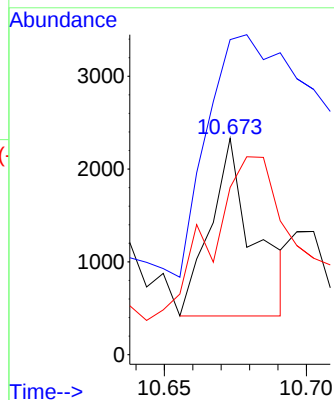


#56
Ethyl methacrylate
Concen: 6.245 ug/l
RT: 10.673 min Scan# 1488
Delta R.T. 0.017 min
Lab File: VD071399.D
Acq: 20 Dec 2021 20:11

Instrument :
MSVOA_D
ClientSampleId :

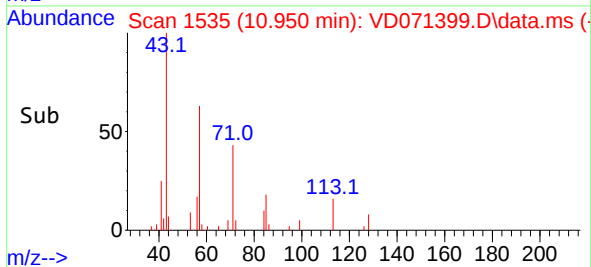
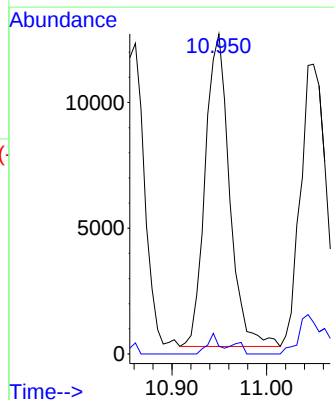
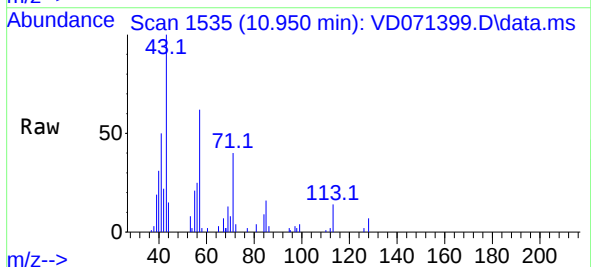


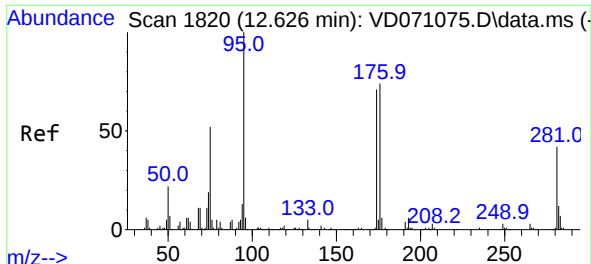
Tgt Ion: 69 Resp: 2051
Ion Ratio Lower Upper
69 100
41 343.4 50.2 75.2#
39 188.2 19.8 29.8#



#59
2-Hexanone
Concen: 40.120 ug/l
RT: 10.950 min Scan# 1535
Delta R.T. -0.029 min
Lab File: VD071399.D
Acq: 20 Dec 2021 20:11

Tgt Ion: 43 Resp: 22213
Ion Ratio Lower Upper
43 100
58 3.0 28.7 86.1#

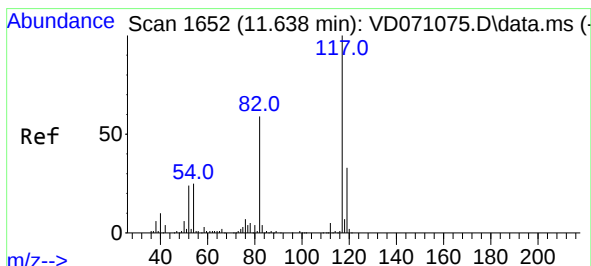
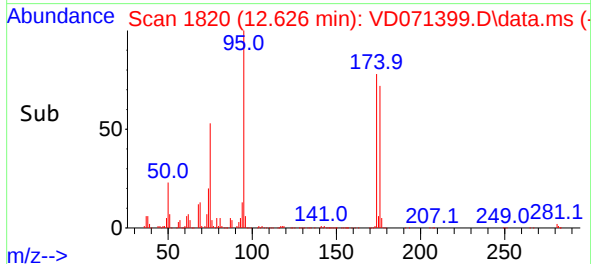
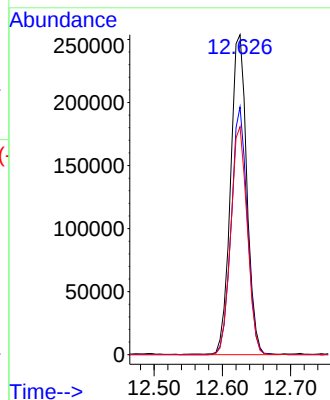
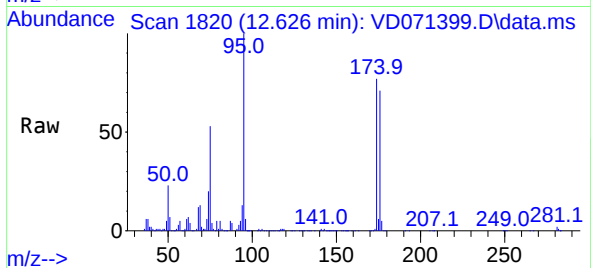




#62
4-Bromofluorobenzene
Concen: 50.114 ug/l
RT: 12.626 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD071399.D
Acq: 20 Dec 2021 20:11

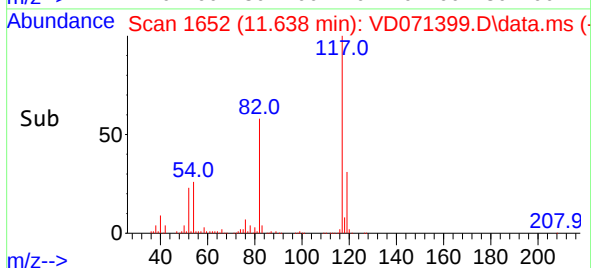
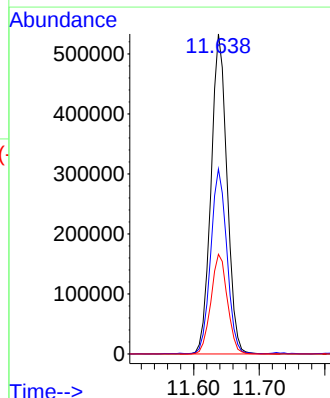
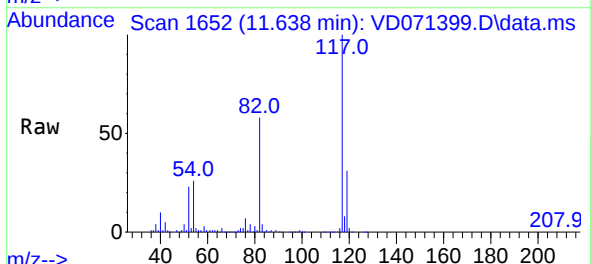
Instrument :
MSVOA_D
ClientSampleId :

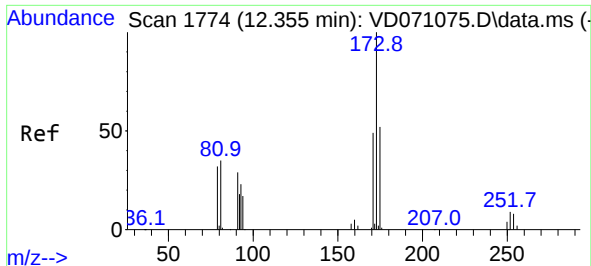
Tgt Ion: 95 Resp: 423564
Ion Ratio Lower Upper
95 100
174 75.6 0.0 159.4
176 71.6 0.0 154.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD071399.D
Acq: 20 Dec 2021 20:11

Tgt Ion: 117 Resp: 902227
Ion Ratio Lower Upper
117 100
82 57.5 44.7 67.1
119 31.1 26.2 39.4

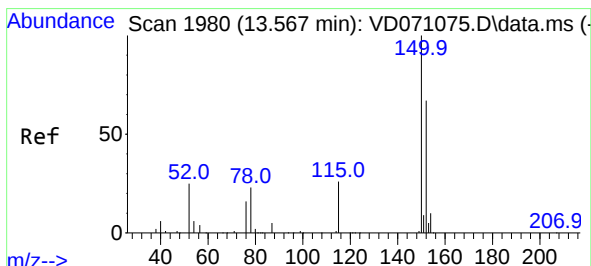
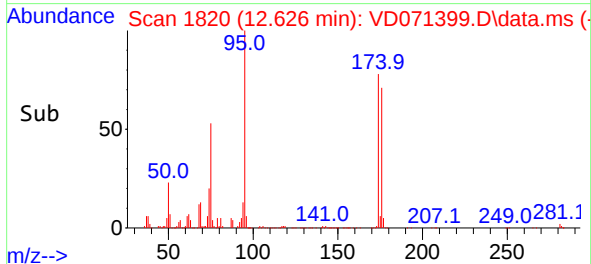
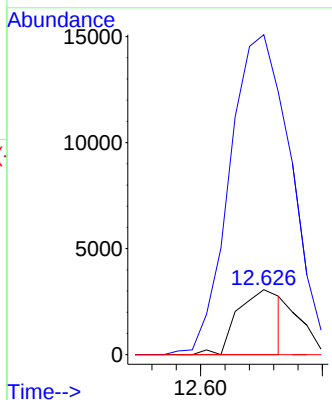
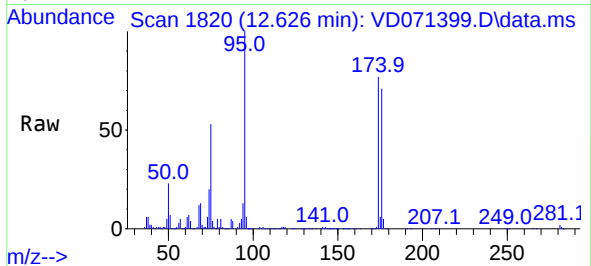




#71
Bromoform
Concen: 1.186 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.271 min
Lab File: VD071399.D
Acq: 20 Dec 2021 20:11

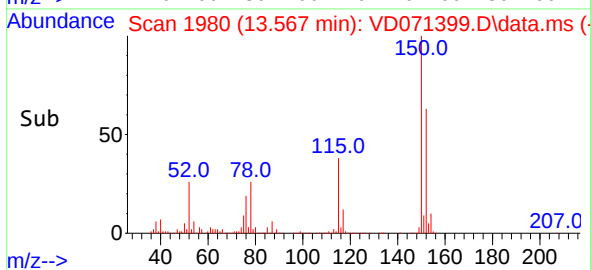
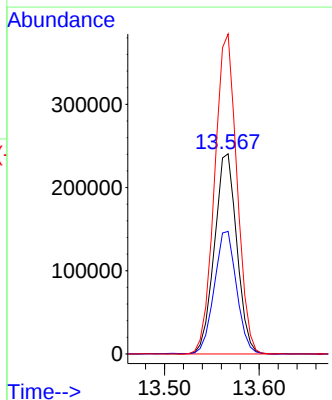
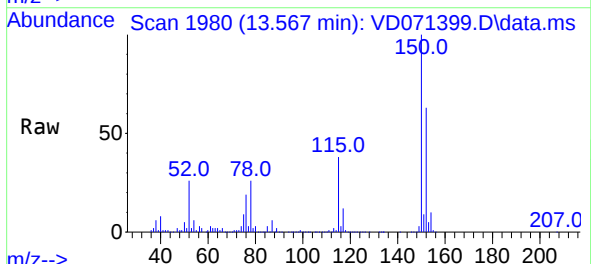
Instrument :
MSVOA_D
ClientSampleId :

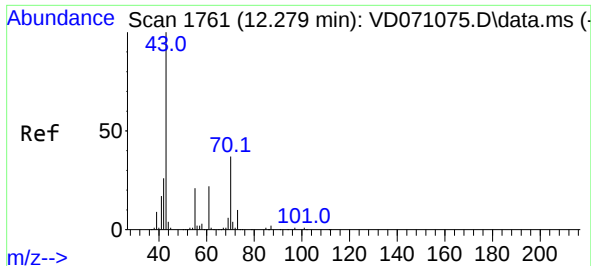
Tgt Ion:173 Resp: 3755
Ion Ratio Lower Upper
173 100
175 569.2 24.1 72.2#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. 0.000 min
Lab File: VD071399.D
Acq: 20 Dec 2021 20:11

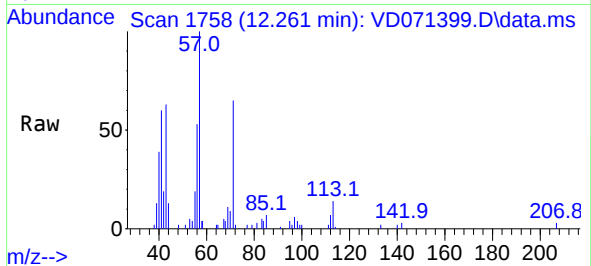
Tgt Ion:152 Resp: 395786
Ion Ratio Lower Upper
152 100
115 61.1 29.8 89.3
150 159.3 0.0 349.2



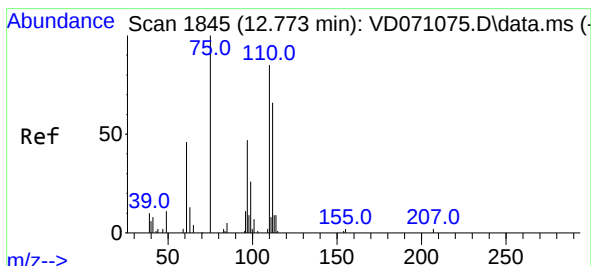
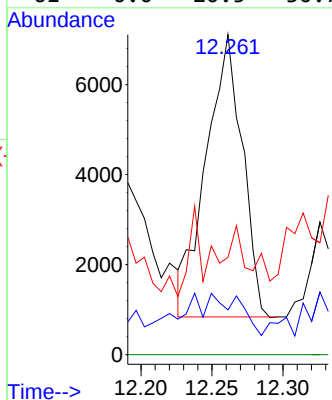
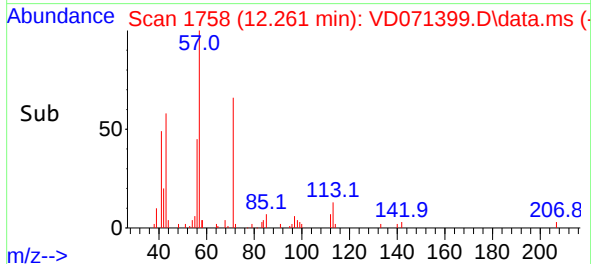


#74
N-amy1 acetate
Concen: 6.958 ug/l
RT: 12.261 min Scan# 11130
Delta R.T. -0.018 min
Lab File: VD071399.D
Acq: 20 Dec 2021 20:11

Instrument :
MSVOA_D
ClientSampleId :

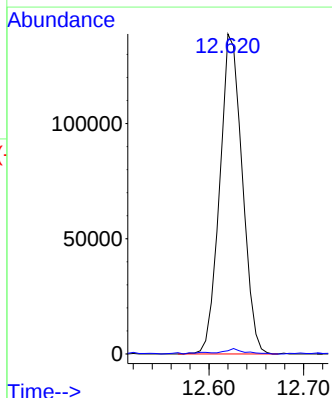
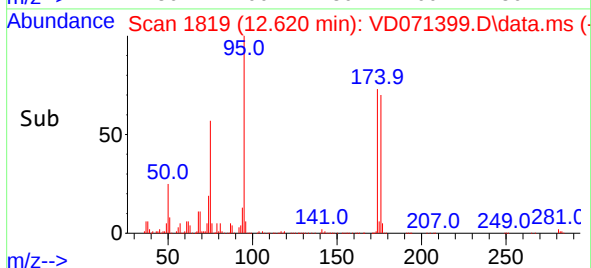
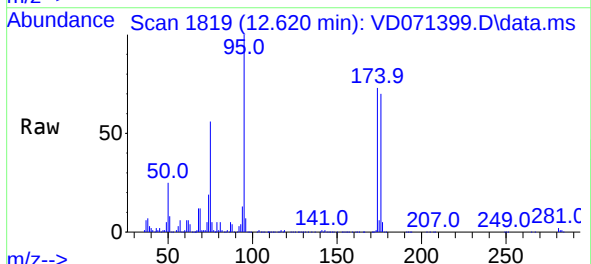


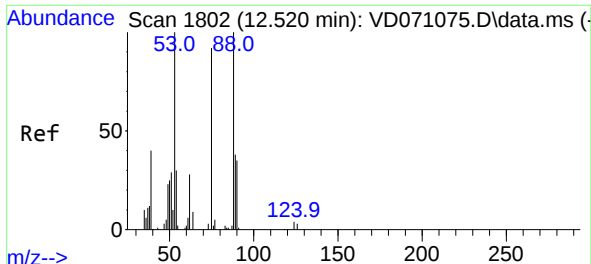
Tgt Ion: 43 Resp: 11130
Ion Ratio Lower Upper
43 100
70 0.0 36.6 55.0#
55 0.0 22.5 33.7#
61 0.0 20.5 30.7#



#76
1,2,3-Trichloropropane
Concen: 60.835 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD071399.D
Acq: 20 Dec 2021 20:11

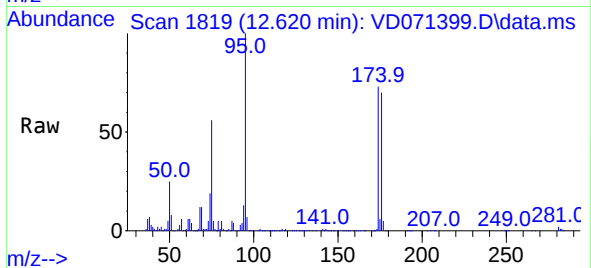
Tgt Ion: 75 Resp: 229403
Ion Ratio Lower Upper
75 100
77 1.4 158.4 475.3#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 131.633 ug/l
 RT: 12.620 min Scan# 11
 Delta R.T. 0.100 min
 Lab File: VD071399.D
 Acq: 20 Dec 2021 20:11

Instrument :
 MSVOA_D
 ClientSampleId :



Tgt Ion: 75 Resp: 229403
 Ion Ratio Lower Upper
 75 100
 53 0.1 62.6 94.0#
 89 0.1 34.5 51.7#

