

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121521\
 Data File : VD071338.D
 Acq On : 15 Dec 2021 13:08
 Operator : VA/SY
 Sample : M5073-04RE
 Misc : 5.02G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 16 04:26:44 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

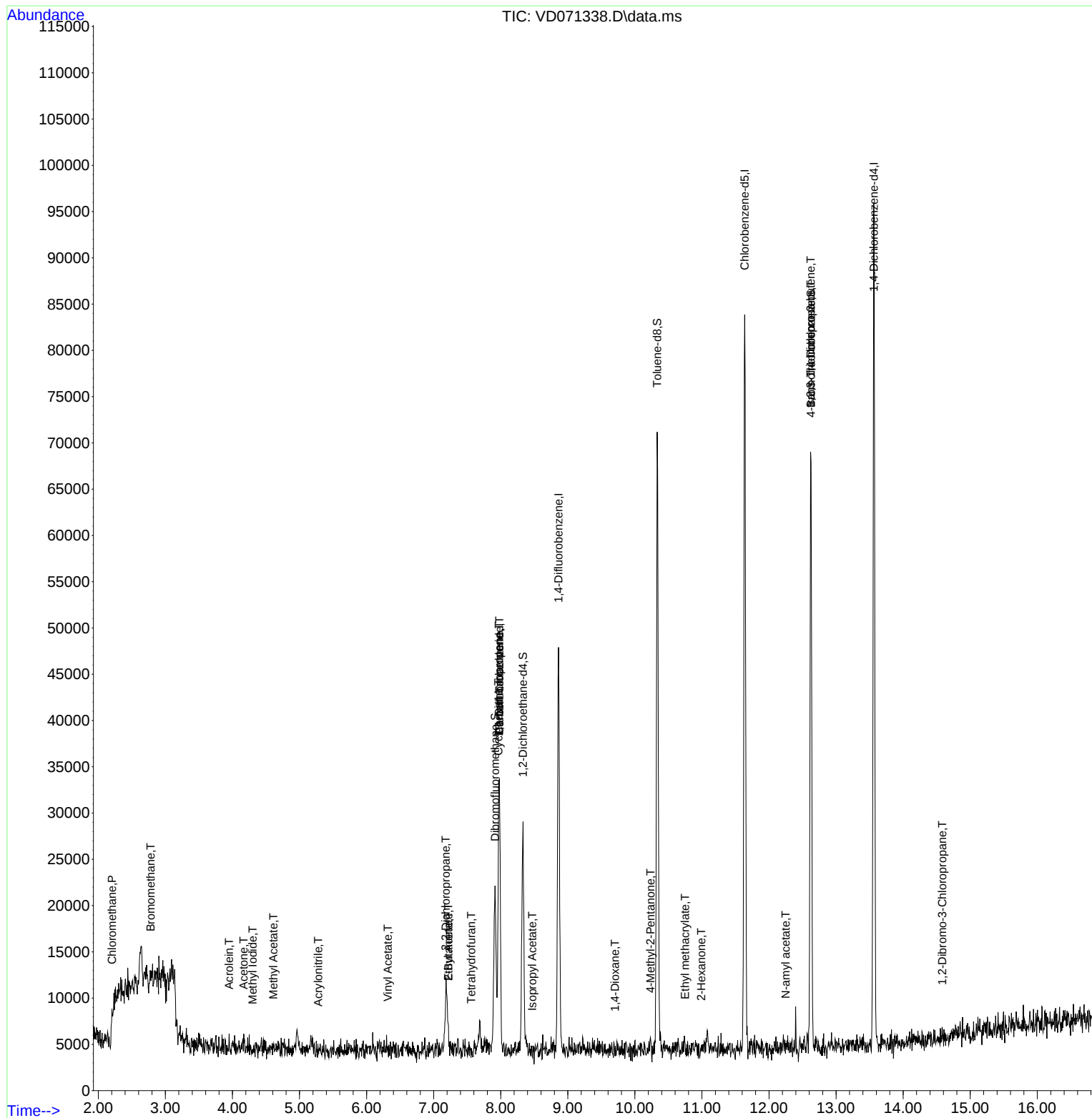
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

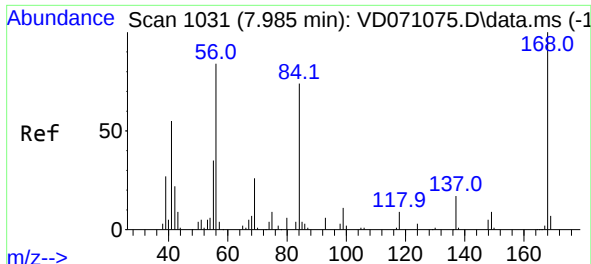
Internal Standards						
1) Pentafluorobenzene	7.979	168	19798	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	31823	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	44107	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	20836	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	17622	75.857	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 151.720%			
35) Dibromofluoromethane	7.914	113	12585	62.104	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 124.200%			
50) Toluene-d8	10.332	98	42438	55.031	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 110.060%			
62) 4-Bromofluorobenzene	12.626	95	20925	78.278	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 156.560%#			
Target Compounds						Qvalue
3) Chloromethane	2.203	50	554	2.480	ug/l #	42
5) Bromomethane	2.779	94	730	4.064	ug/l #	57
10) Methyl Iodide	4.303	142	87	4.902	ug/l #	40
11) Tert butyl alcohol	5.226	59	58	Below Cal	#	71
13) Acrolein	3.950	56	62	3.905	ug/l #	13
15) Acrylonitrile	5.279	53	74	1.663	ug/l #	65
16) Acetone	4.168	43	1327	49.658	ug/l #	40
18) Methyl Acetate	4.609	43	204	1.190	ug/l #	51
23) Vinyl Acetate	6.315	43	110	27.477	ug/l #	72
25) 2-Butanone	7.220	43	328	32.441	ug/l #	45
26) 2,2-Dichloropropane	7.179	77	543	1.484	ug/l #	52
29) Tetrahydrofuran	7.562	42	110	2.982	ug/l #	34
31) Cyclohexane	7.967	56	1098	2.779	ug/l #	73
36) 1,1-Dichloropropene	7.973	75	2078	6.987	ug/l #	49
37) Ethyl Acetate	7.220	43	328	2.553	ug/l #	85
38) Carbon Tetrachloride	7.979	117	2630	8.970	ug/l #	12
41) Methacrylonitrile	7.520	41	123	Below Cal	#	1
43) Isopropyl Acetate	8.467	43	56	5.400	ug/l #	47
49) 1,4-Dioxane	9.703	88	78	73.305	ug/l #	23
51) 4-Methyl-2-Pentanone	10.232	43	355	32.802	ug/l #	34
56) Ethyl methacrylate	10.750	69	72	6.275	ug/l #	1
59) 2-Hexanone	10.991	43	179	35.987	ug/l #	22
74) N-amyl acetate	12.250	43	56	5.821	ug/l #	2
76) 1						

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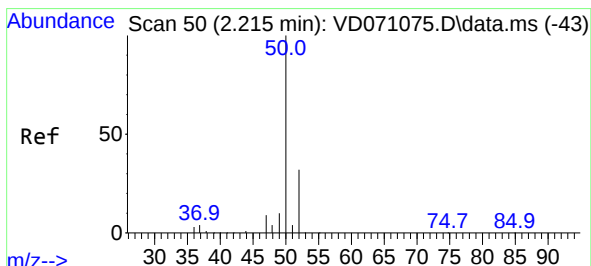
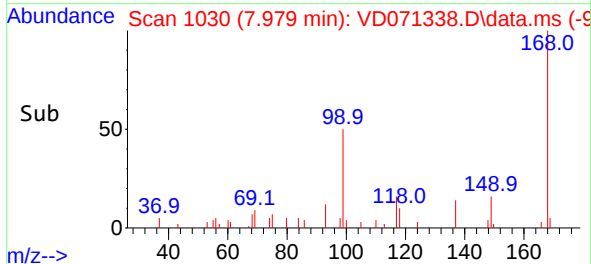
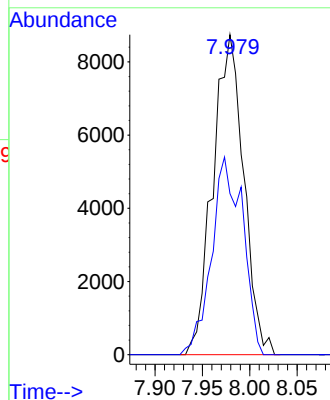
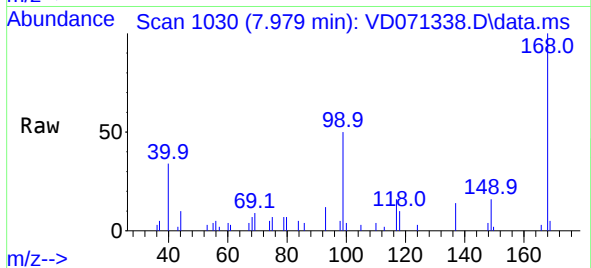




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 10
Delta R.T. -0.006 min
Lab File: VD071338.D
Acq: 15 Dec 2021 13:08

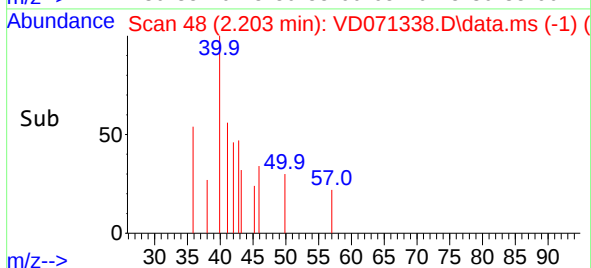
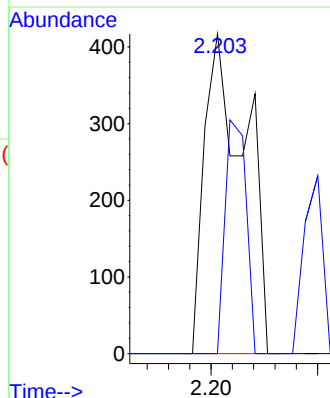
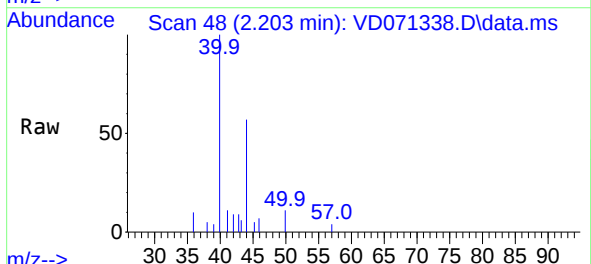
Instrument :
MSVOA_D
ClientSampleId :

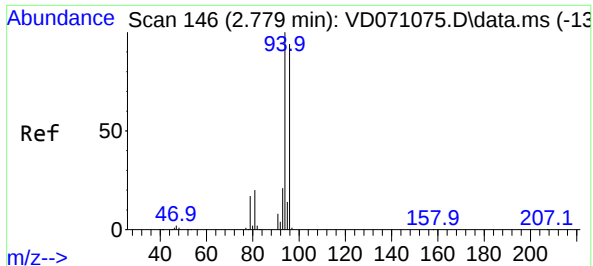
Tgt Ion:168 Resp: 19798
Ion Ratio Lower Upper
168 100
99 50.3 46.6 69.8



#3
Chloromethane
Concen: 2.480 ug/l
RT: 2.203 min Scan# 48
Delta R.T. -0.012 min
Lab File: VD071338.D
Acq: 15 Dec 2021 13:08

Tgt Ion: 50 Resp: 554
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.8#

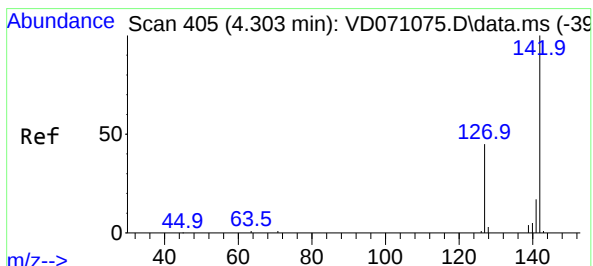
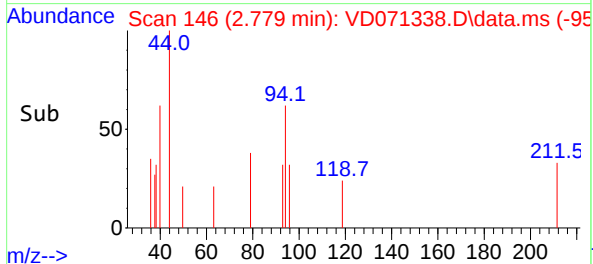
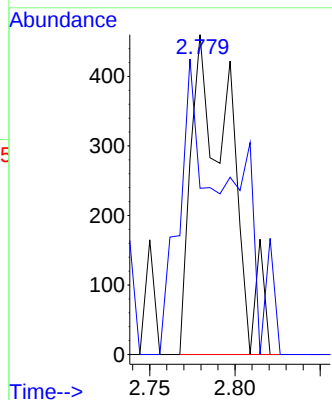
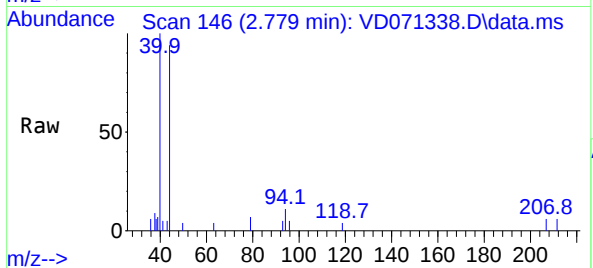




#5
Bromomethane
Concen: 4.064 ug/l
RT: 2.779 min Scan# 146
Delta R.T. 0.000 min
Lab File: VD071338.D
Acq: 15 Dec 2021 13:08

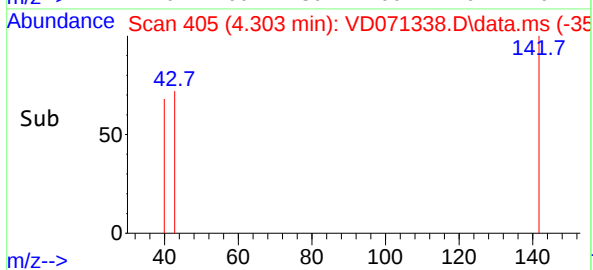
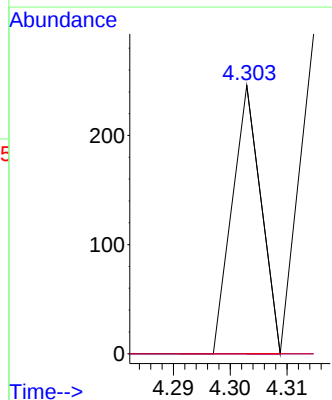
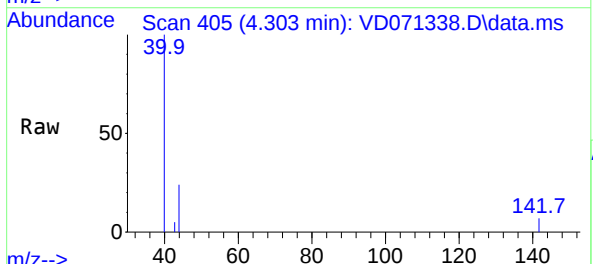
Instrument :
MSVOA_D
ClientSampleId :

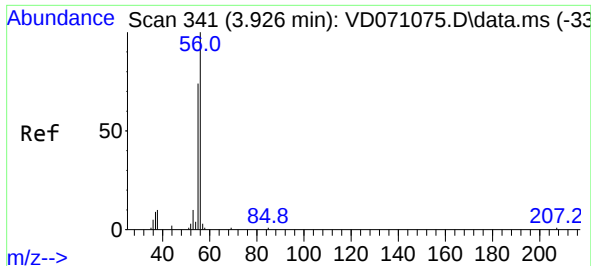
Tgt Ion: 94 Resp: 730
Ion Ratio Lower Upper
94 100
96 52.0 74.8 112.2#



#10
Methyl Iodide
Concen: 4.902 ug/l
RT: 4.303 min Scan# 405
Delta R.T. -0.000 min
Lab File: VD071338.D
Acq: 15 Dec 2021 13:08

Tgt Ion: 142 Resp: 87
Ion Ratio Lower Upper
142 100
127 0.0 35.0 52.4#
141 0.0 12.0 18.0#

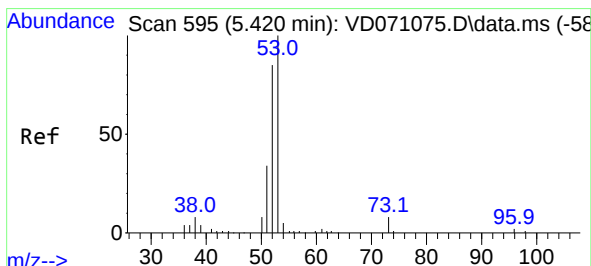
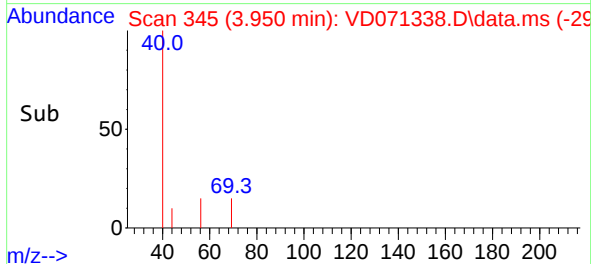
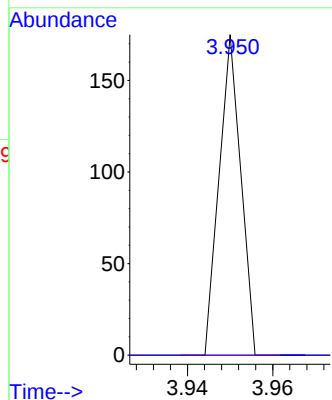
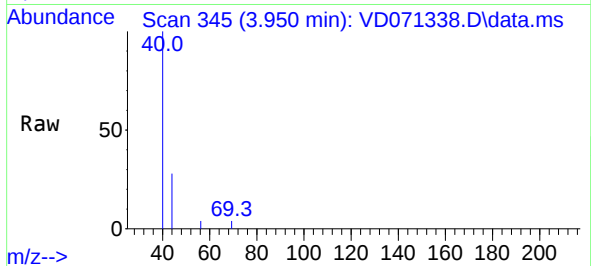




#13
Acrolein
Concen: 3.905 ug/l
RT: 3.950 min Scan# 341
Delta R.T. 0.024 min
Lab File: VD071338.D
Acq: 15 Dec 2021 13:08

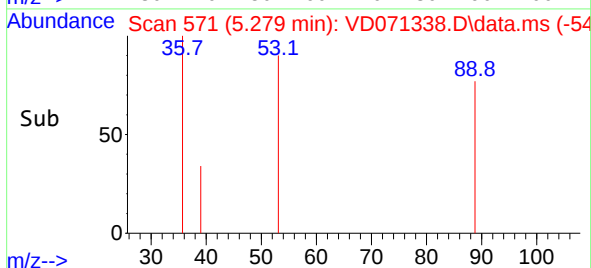
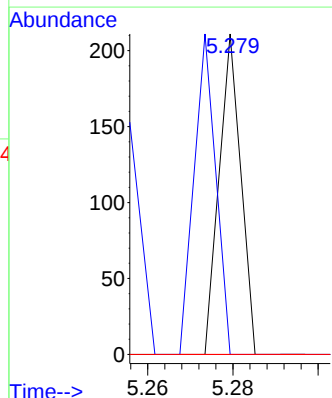
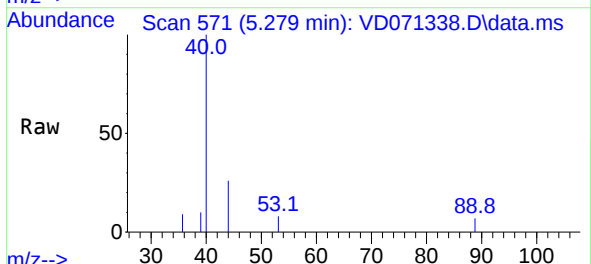
Instrument :
MSVOA_D
ClientSampleId :

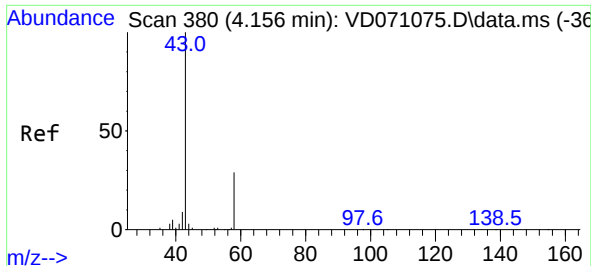
Tgt Ion: 56 Resp: 62
Ion Ratio Lower Upper
56 100
55 0.0 58.6 87.8#



#15
Acrylonitrile
Concen: 1.663 ug/l
RT: 5.279 min Scan# 571
Delta R.T. -0.141 min
Lab File: VD071338.D
Acq: 15 Dec 2021 13:08

Tgt Ion: 53 Resp: 74
Ion Ratio Lower Upper
53 100
52 100.0 63.8 95.8#
51 0.0 28.5 42.7#

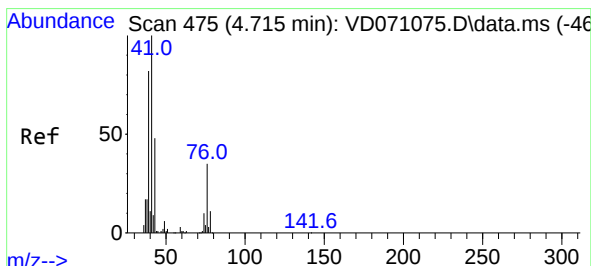
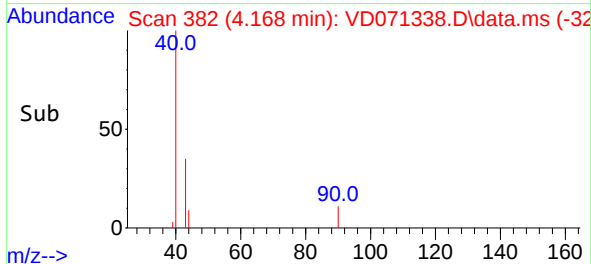
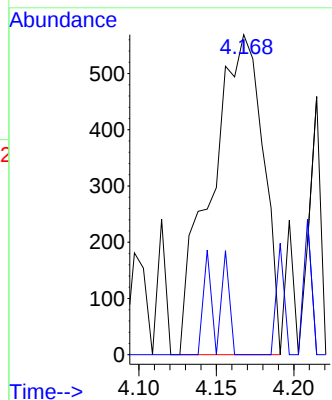
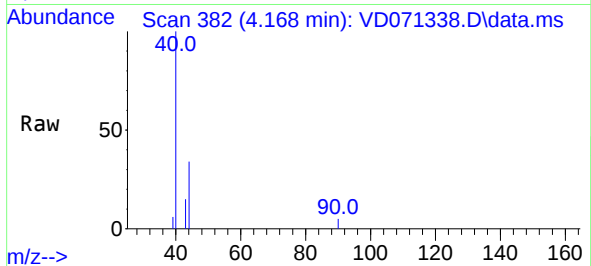




#16
Acetone
Concen: 49.658 ug/l
RT: 4.168 min Scan# 31
Delta R.T. 0.012 min
Lab File: VD071338.D
Acq: 15 Dec 2021 13:08

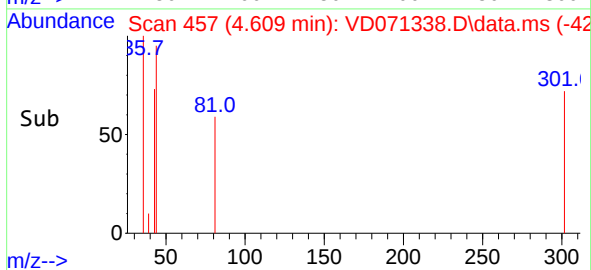
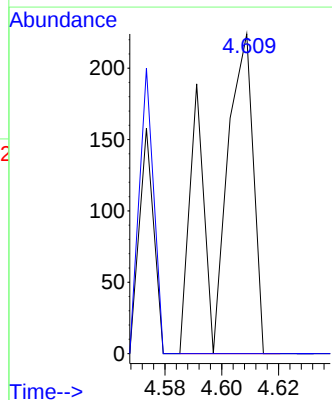
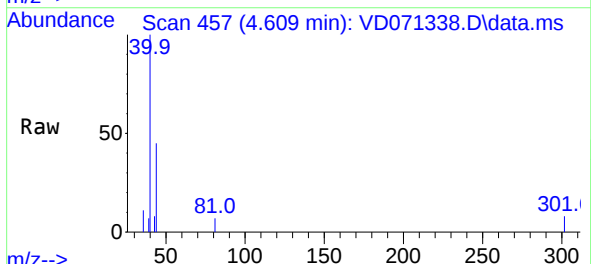
Instrument :
MSVOA_D
ClientSampleId :

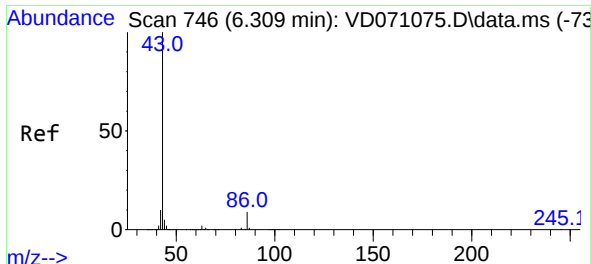
Tgt Ion: 43 Resp: 1327
Ion Ratio Lower Upper
43 100
58 0.0 27.8 41.8#



#18
Methyl Acetate
Concen: 1.190 ug/l
RT: 4.609 min Scan# 457
Delta R.T. -0.106 min
Lab File: VD071338.D
Acq: 15 Dec 2021 13:08

Tgt Ion: 43 Resp: 204
Ion Ratio Lower Upper
43 100
74 0.0 19.3 28.9#

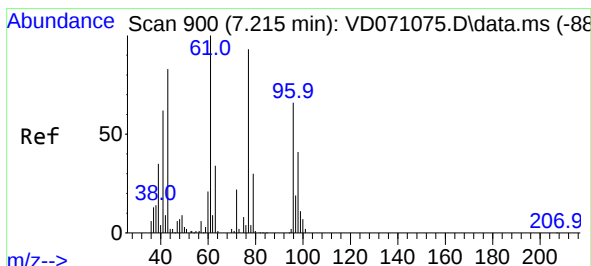
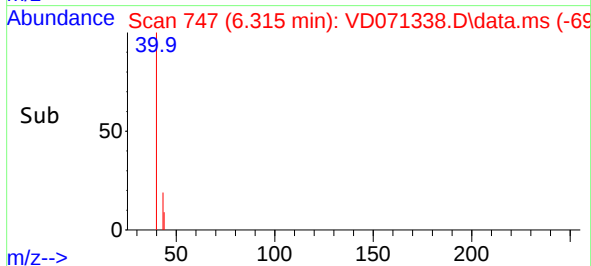
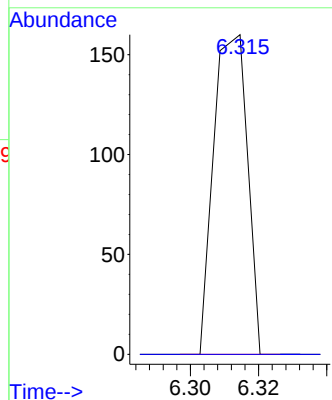
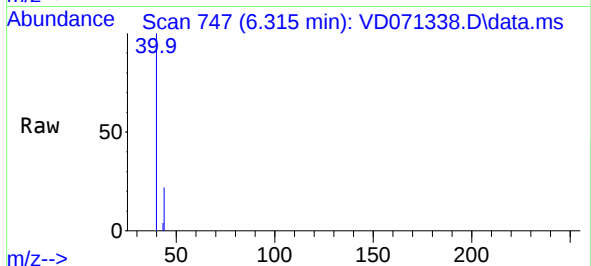




#23
 Vinyl Acetate
 Concen: 27.477 ug/l
 RT: 6.315 min Scan# 746
 Delta R.T. 0.006 min
 Lab File: VD071338.D
 Acq: 15 Dec 2021 13:08

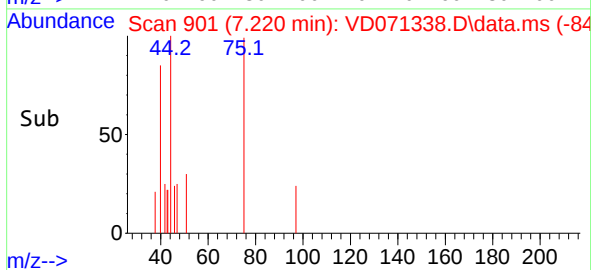
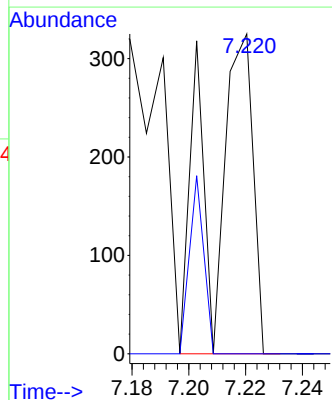
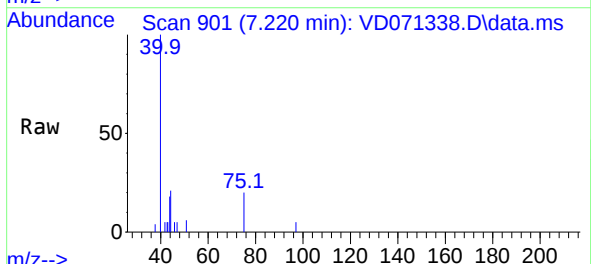
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 ClientSampleId :

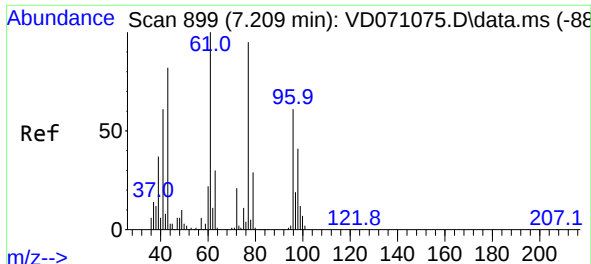
Tgt Ion: 43 Resp: 110
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.2 12.4#



#25
 2-Butanone
 Concen: 32.441 ug/l
 RT: 7.220 min Scan# 901
 Delta R.T. 0.005 min
 Lab File: VD071338.D
 Acq: 15 Dec 2021 13:08

Tgt Ion: 43 Resp: 328
 Ion Ratio Lower Upper
 43 100
 72 0.0 23.8 35.6#





#26

2,2-Dichloropropane

Concen: 1.484 ug/l

RT: 7.179 min Scan# 899

Delta R.T. -0.030 min

Lab File: VD071338.D

Acq: 15 Dec 2021 13:08

Instrument :

MSVOA_D

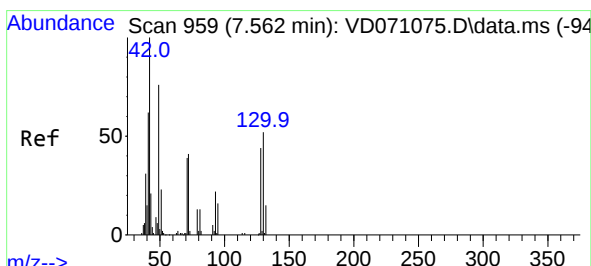
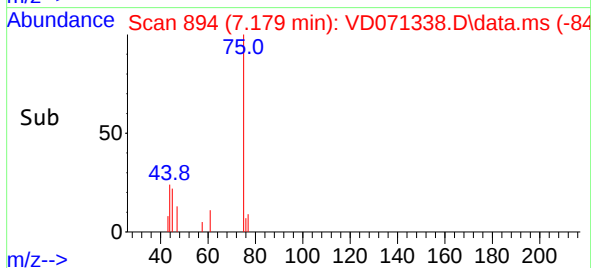
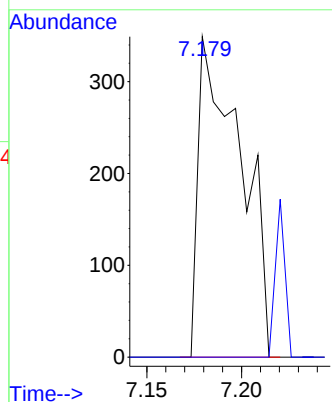
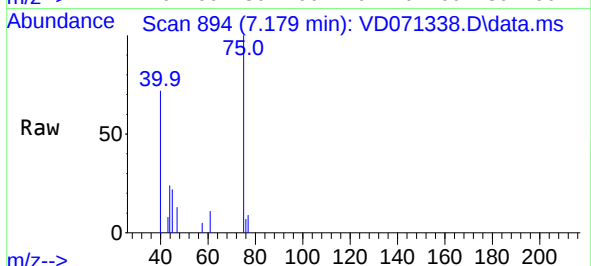
ClientSampleId :

Tgt Ion: 77 Resp: 543

Ion Ratio Lower Upper

77 100

97 0.0 11.9 35.5#



#29

Tetrahydrofuran

Concen: 2.982 ug/l

RT: 7.562 min Scan# 959

Delta R.T. -0.000 min

Lab File: VD071338.D

Acq: 15 Dec 2021 13:08

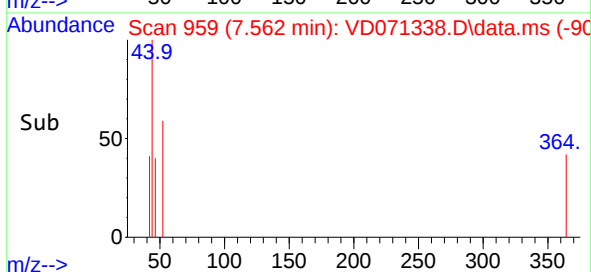
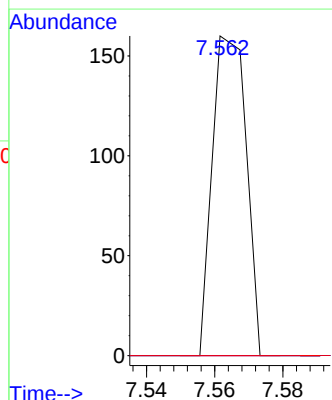
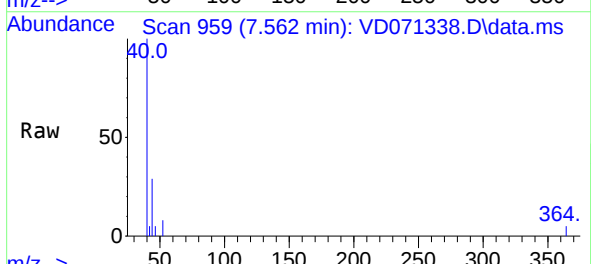
Tgt Ion: 42 Resp: 110

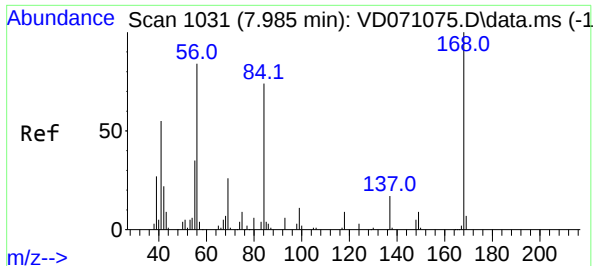
Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

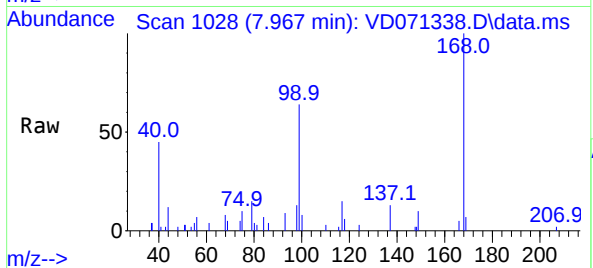
71 0.0 32.7 49.1#



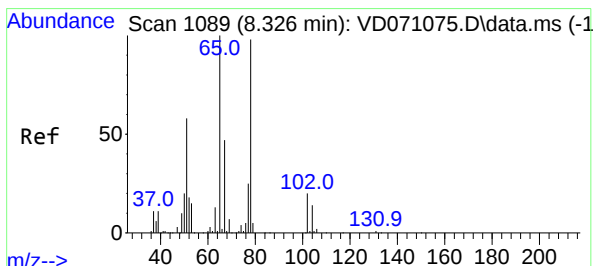
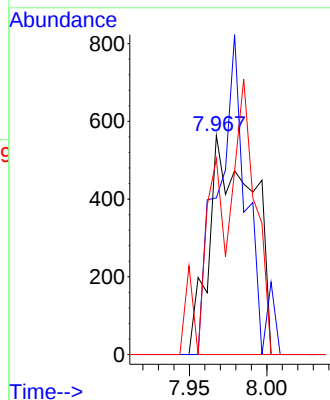
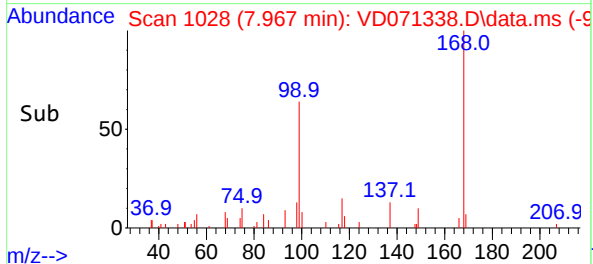


#31
Cyclohexane
Concen: 2.779 ug/l
RT: 7.967 min Scan# 1098
Delta R.T. -0.018 min
Lab File: VD071338.D
Acq: 15 Dec 2021 13:08

Instrument :
MSVOA_D
ClientSampleId :

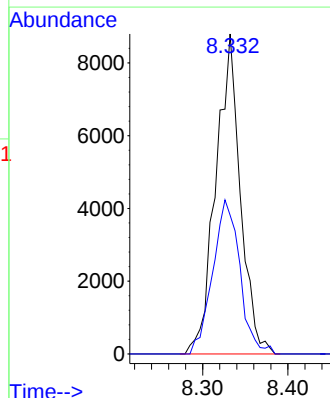
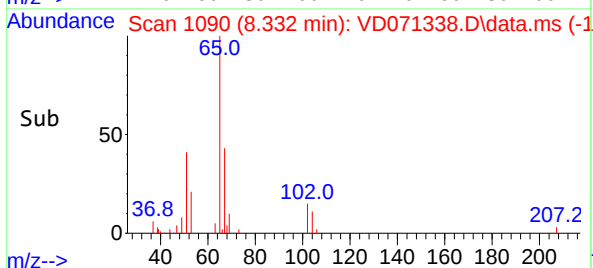
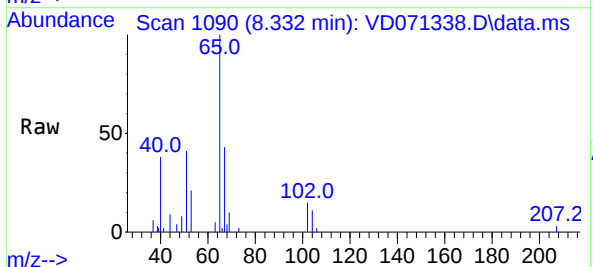


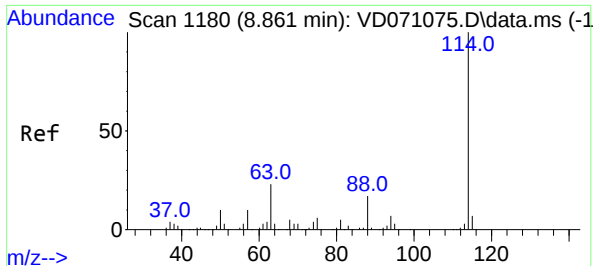
Tgt Ion: 56 Resp: 1098
Ion Ratio Lower Upper
56 100
69 71.5 25.9 38.9#
84 89.4 64.3 96.5



#33
1,2-Dichloroethane-d4
Concen: 75.857 ug/l
RT: 8.332 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VD071338.D
Acq: 15 Dec 2021 13:08

Tgt Ion: 65 Resp: 17622
Ion Ratio Lower Upper
65 100
67 53.0 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: VD071338.D

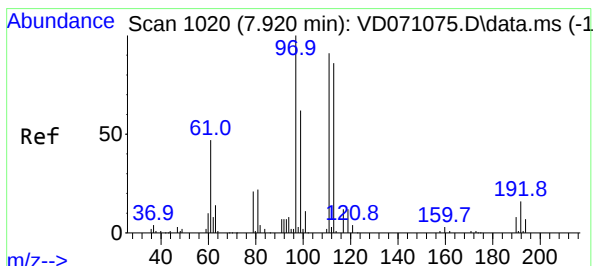
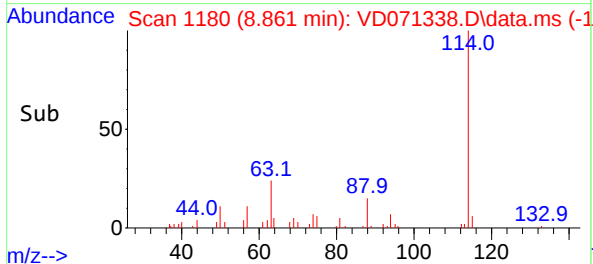
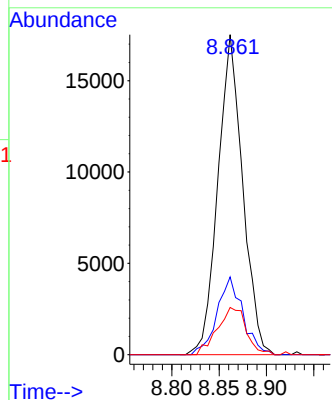
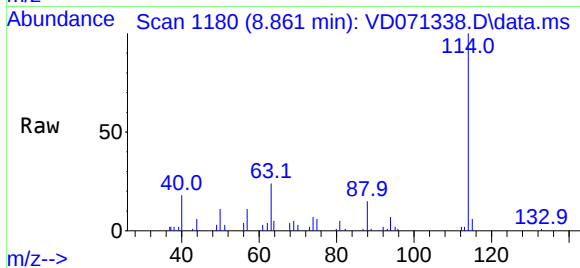
Acq: 15 Dec 2021 13:08

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:	114	Resp:	31823
Ion	Ratio	Lower	Upper
114	100		
63	24.3	0.0	41.8
88	14.7	0.0	32.8



#35

Dibromofluoromethane

Concen: 62.104 ug/l

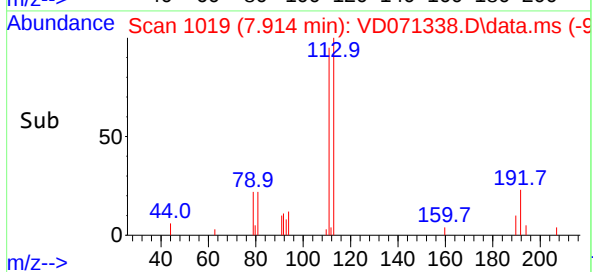
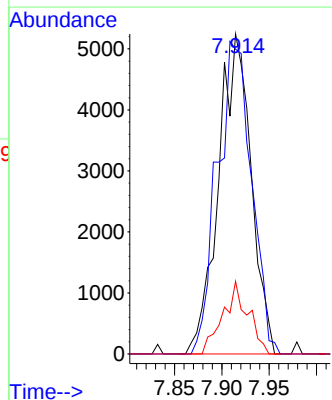
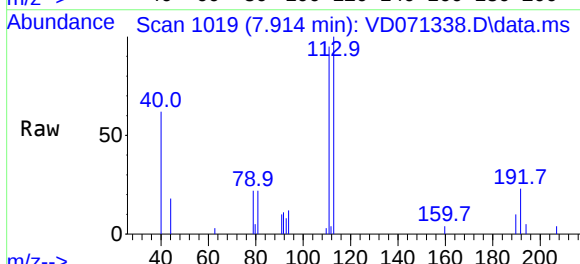
RT: 7.914 min Scan# 1019

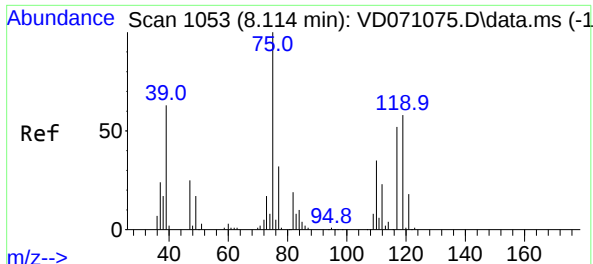
Delta R.T. -0.006 min

Lab File: VD071338.D

Acq: 15 Dec 2021 13:08

Tgt Ion:	113	Resp:	12585
Ion	Ratio	Lower	Upper
113	100		
111	101.9	82.0	123.0
192	17.4	15.2	22.8





#36

1,1-Dichloropropene

Concen: 6.987 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.141 min

Lab File: VD071338.D

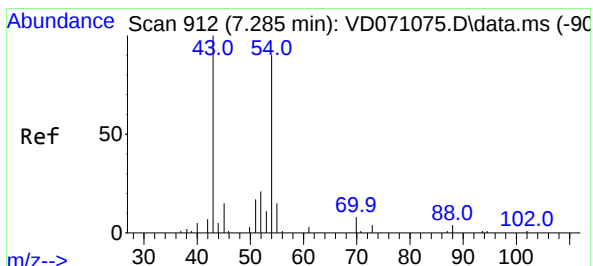
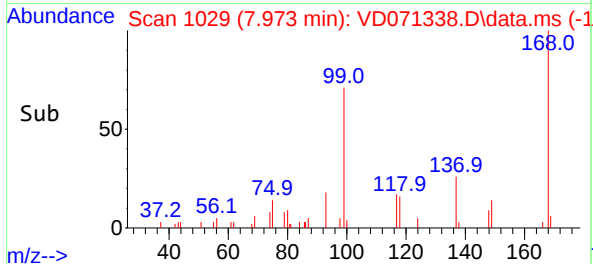
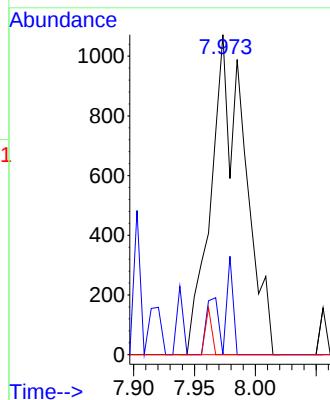
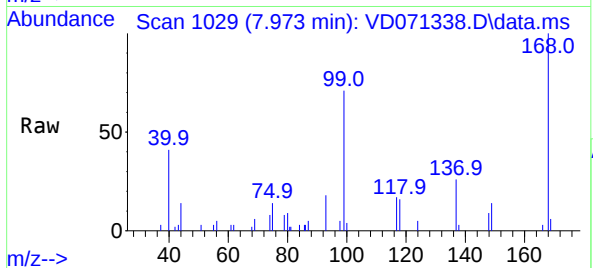
Acq: 15 Dec 2021 13:08

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:	75	Resp:	2078
Ion	Ratio	Lower	Upper
75	100		
110	6.3	17.8	53.4#
77	2.7	24.8	37.2#



#37

Ethyl Acetate

Concen: 2.553 ug/l

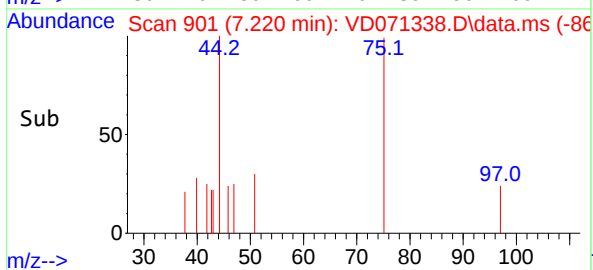
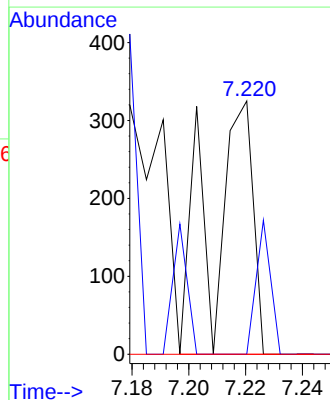
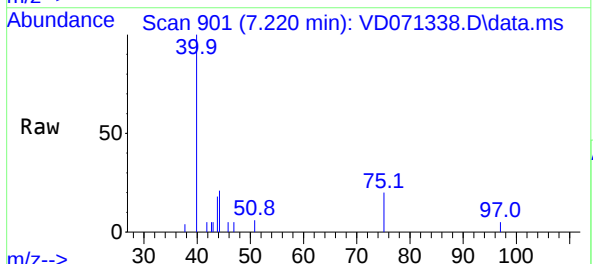
RT: 7.220 min Scan# 901

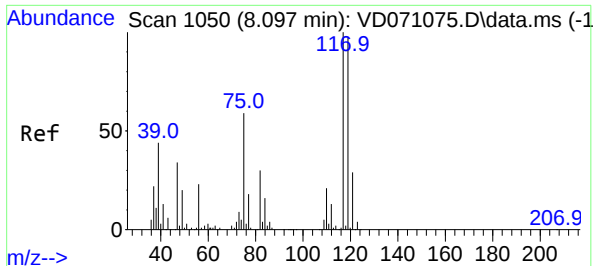
Delta R.T. -0.065 min

Lab File: VD071338.D

Acq: 15 Dec 2021 13:08

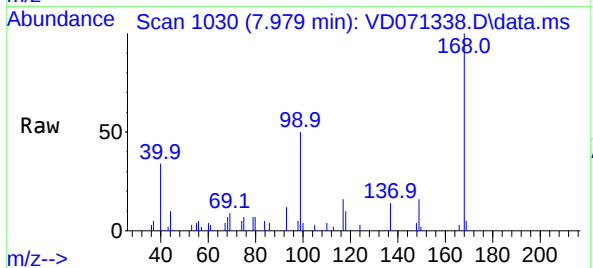
Tgt Ion:	43	Resp:	328
Ion	Ratio	Lower	Upper
43	100		
61	18.6	13.0	19.6
70	0.0	8.7	13.1#



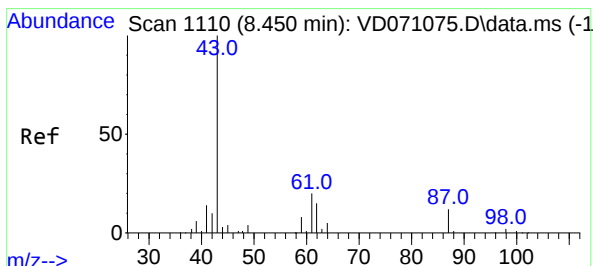
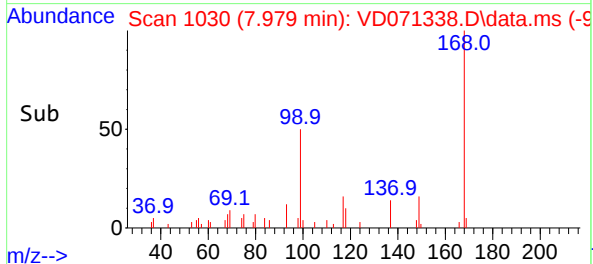
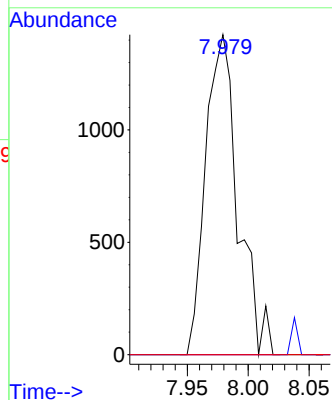


#38
Carbon Tetrachloride
Concen: 8.970 ug/l
RT: 7.979 min Scan# 1107
Delta R.T. -0.118 min
Lab File: VD071338.D
Acq: 15 Dec 2021 13:08

Instrument :
MSVOA_D
ClientSampleId :

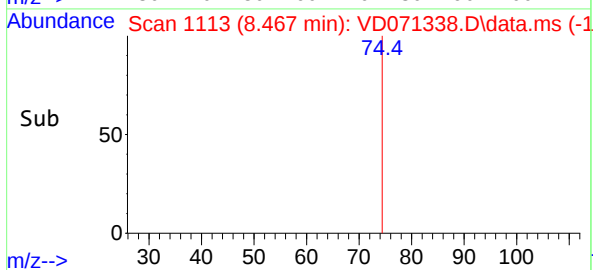
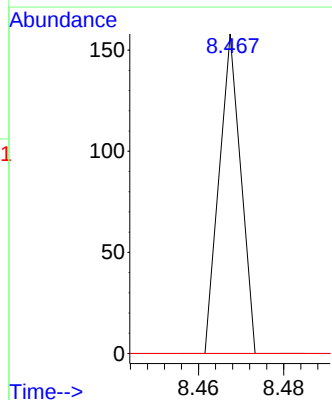
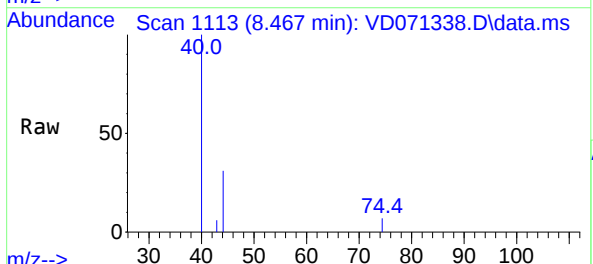


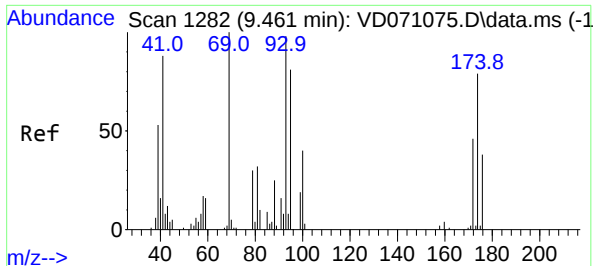
Tgt Ion:117 Resp: 2630
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.6#
121 0.0 23.6 35.4#



#43
Isopropyl Acetate
Concen: 5.400 ug/l
RT: 8.467 min Scan# 1113
Delta R.T. 0.017 min
Lab File: VD071338.D
Acq: 15 Dec 2021 13:08

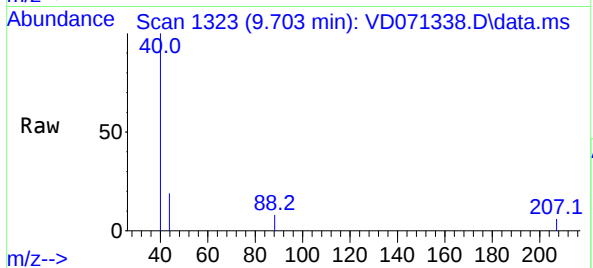
Tgt Ion: 43 Resp: 56
Ion Ratio Lower Upper
43 100
61 0.0 28.2 42.4#
87 0.0 10.7 16.1#



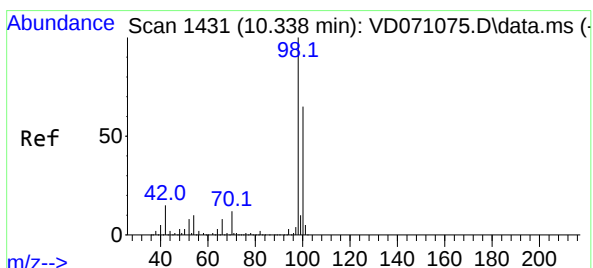
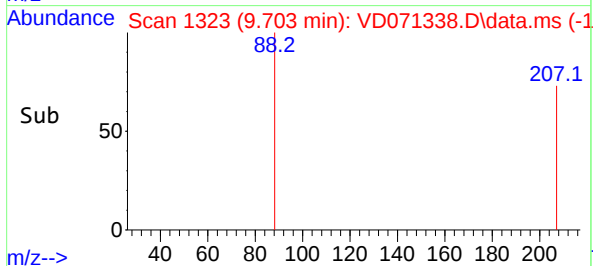
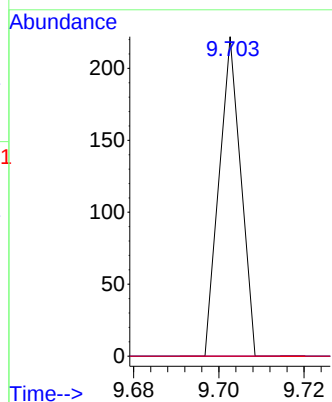


#49
1,4-Dioxane
Concen: 73.305 ug/l
RT: 9.703 min Scan# 11
Delta R.T. 0.242 min
Lab File: VD071338.D
Acq: 15 Dec 2021 13:08

Instrument :
MSVOA_D
ClientSampleId :

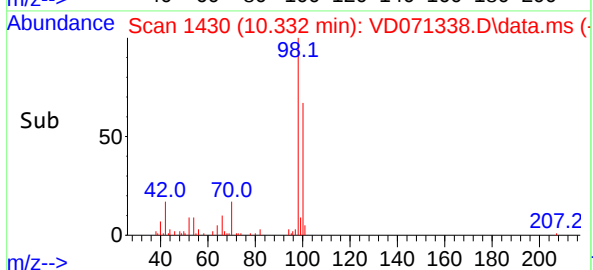
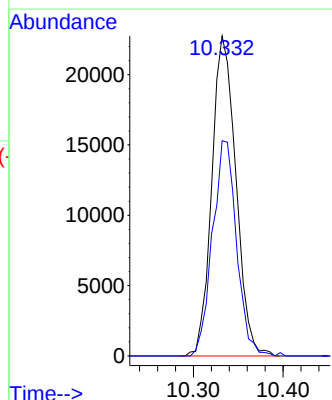
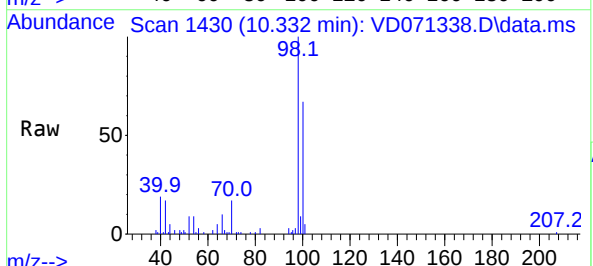


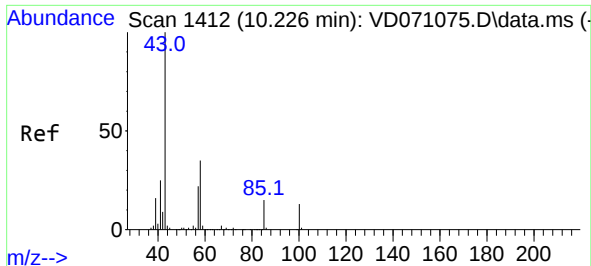
Tgt Ion: 88 Resp: 78
Ion Ratio Lower Upper
88 100
43 0.0 28.9 43.3#
58 0.0 56.3 84.5#



#50
Toluene-d8
Concen: 55.031 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.006 min
Lab File: VD071338.D
Acq: 15 Dec 2021 13:08

Tgt Ion: 98 Resp: 42438
Ion Ratio Lower Upper
98 100
100 67.1 51.8 77.6

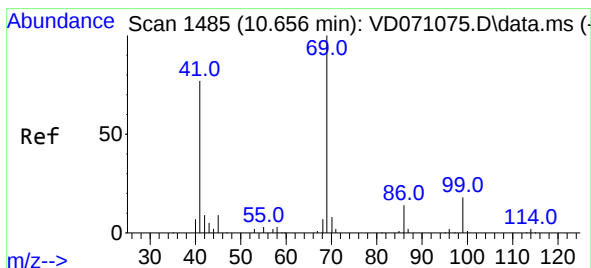
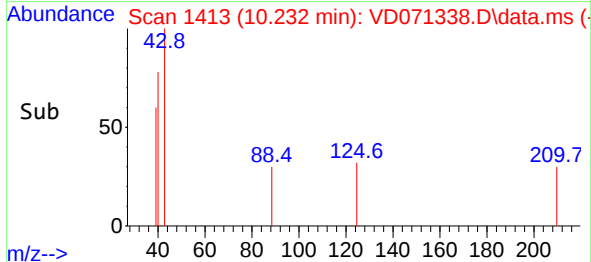
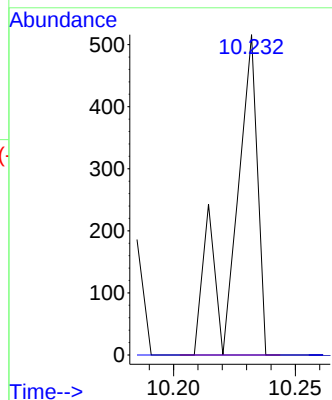
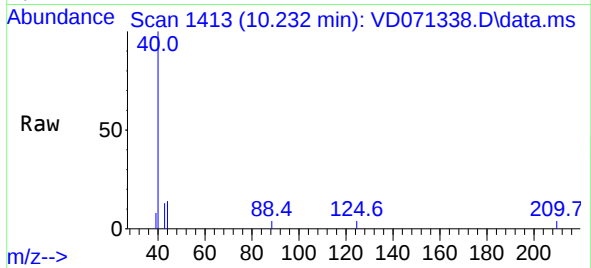




#51
4-Methyl-2-Pentanone
Concen: 32.802 ug/l
RT: 10.232 min Scan# 1412
Delta R.T. 0.006 min
Lab File: VD071338.D
Acq: 15 Dec 2021 13:08

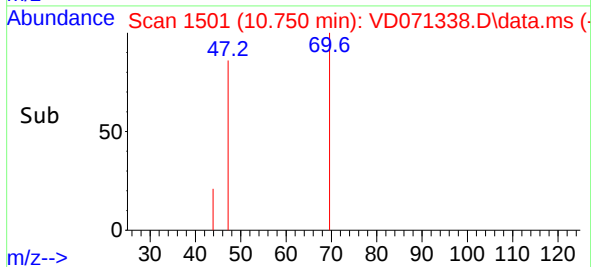
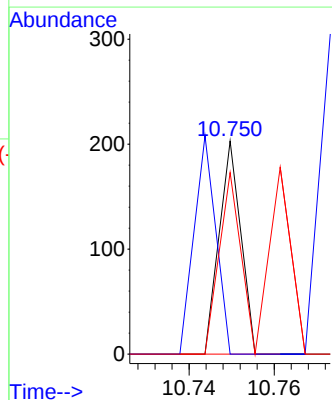
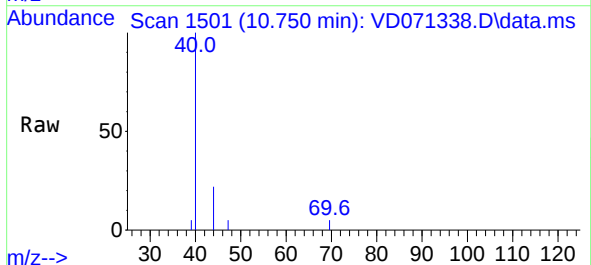
Instrument :
MSVOA_D
ClientSampleId :

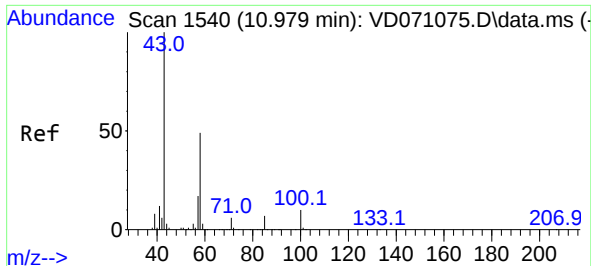
Tgt Ion: 43 Resp: 355
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#



#56
Ethyl methacrylate
Concen: 6.275 ug/l
RT: 10.750 min Scan# 1501
Delta R.T. 0.094 min
Lab File: VD071338.D
Acq: 15 Dec 2021 13:08

Tgt Ion: 69 Resp: 72
Ion Ratio Lower Upper
69 100
41 101.4 50.2 75.2#
39 172.2 19.8 29.8#

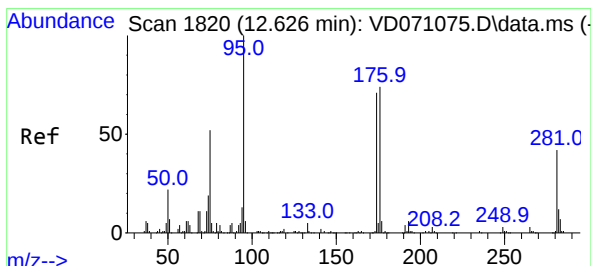
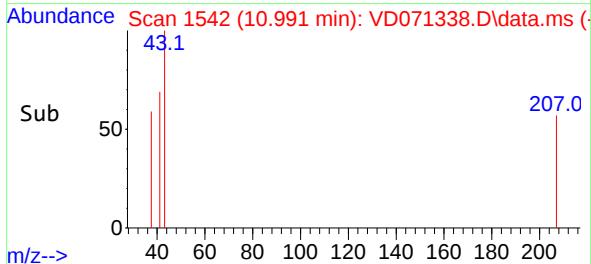
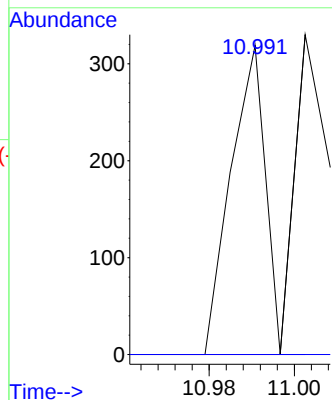
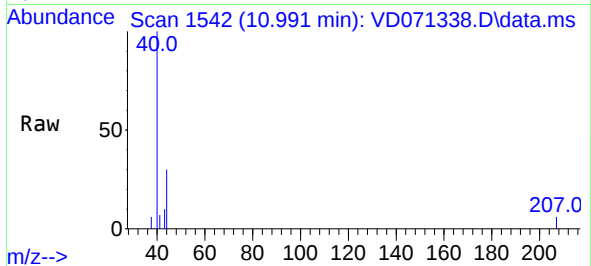




#59
2-Hexanone
Concen: 35.987 ug/l
RT: 10.991 min Scan# 11
Delta R.T. 0.012 min
Lab File: VD071338.D
Acq: 15 Dec 2021 13:08

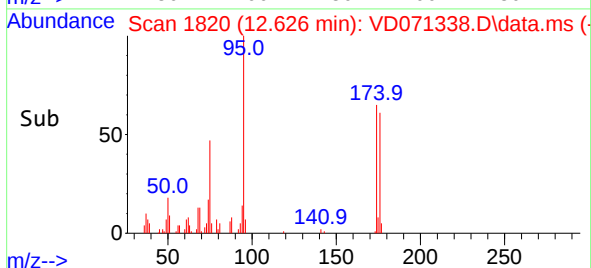
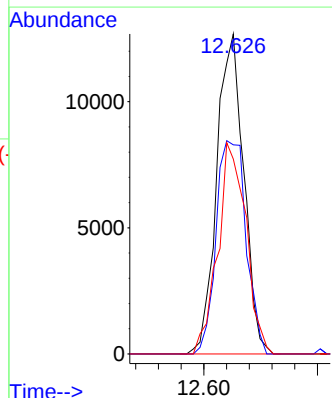
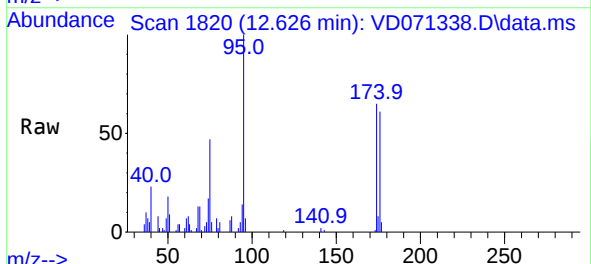
Instrument :
MSVOA_D
ClientSampleId :

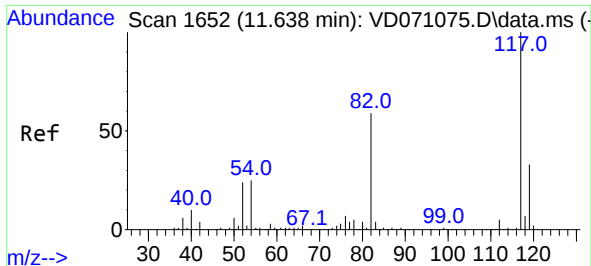
Tgt Ion: 43 Resp: 179
Ion Ratio Lower Upper
43 100
58 0.0 28.7 86.1#



#62
4-Bromofluorobenzene
Concen: 78.278 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD071338.D
Acq: 15 Dec 2021 13:08

Tgt Ion: 95 Resp: 20925
Ion Ratio Lower Upper
95 100
174 74.1 0.0 159.4
176 68.9 0.0 154.0

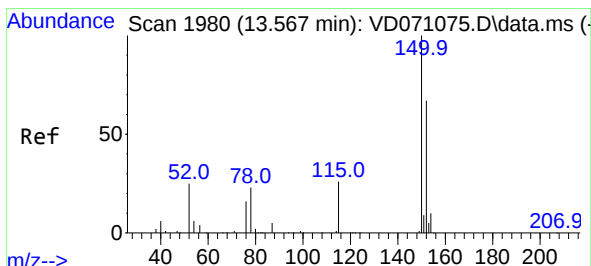
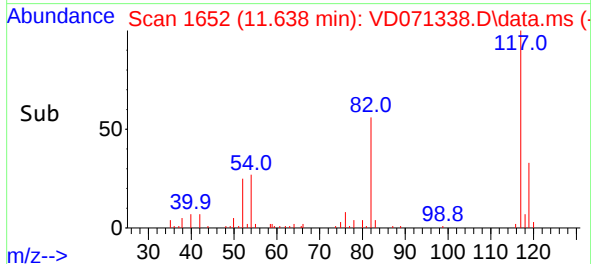
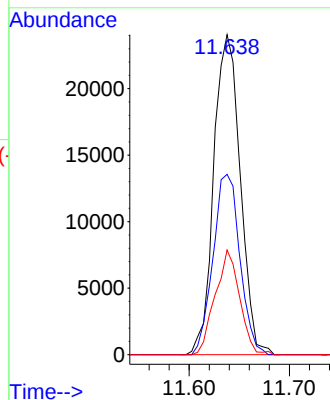
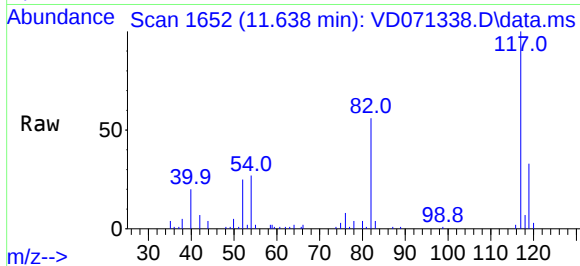




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 117
Delta R.T. -0.000 min
Lab File: VD071338.D
Acq: 15 Dec 2021 13:08

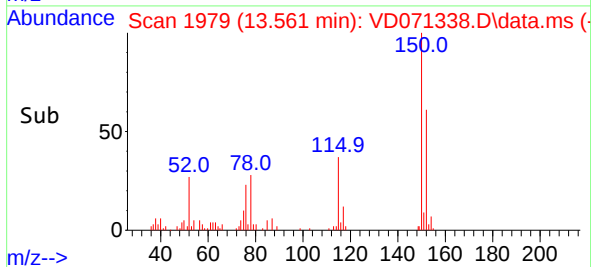
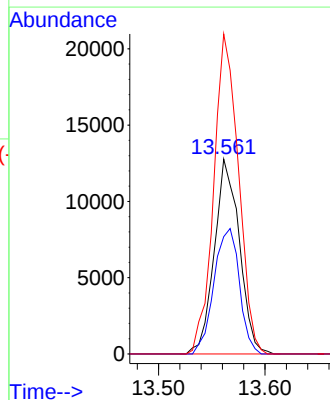
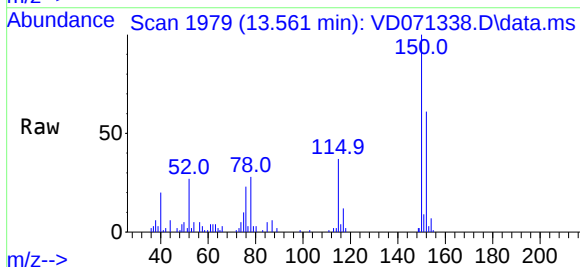
Instrument :
MSVOA_D
ClientSampleId :

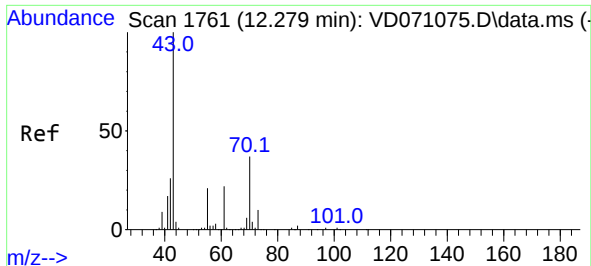
Tgt Ion:117	Resp:	44107
Ion Ratio	Lower	Upper
117	100	
82	56.3	44.7 67.1
119	32.7	26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. -0.006 min
Lab File: VD071338.D
Acq: 15 Dec 2021 13:08

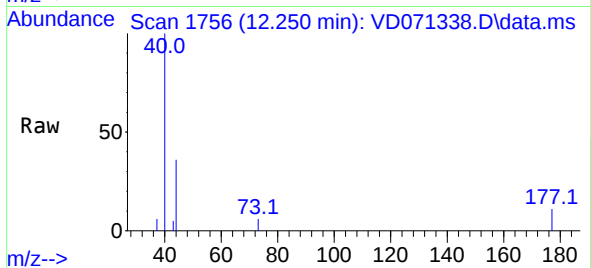
Tgt Ion:152	Resp:	20836
Ion Ratio	Lower	Upper
152	100	
115	65.3	29.8 89.3
150	162.6	0.0 349.2



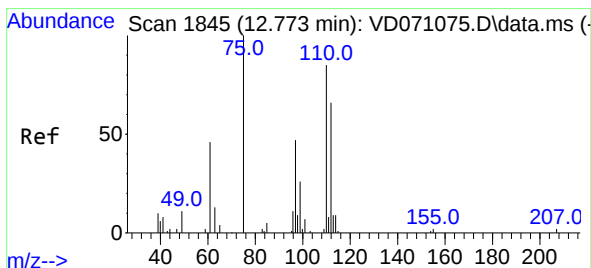
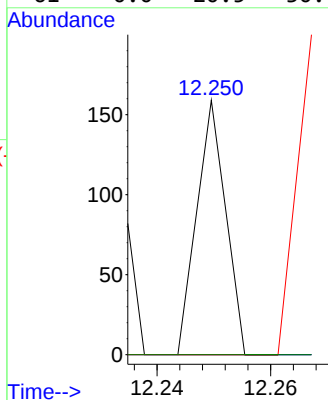
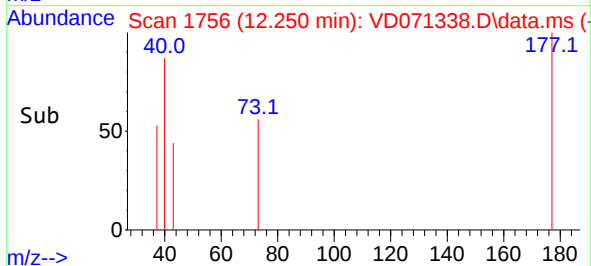


#74
N-amy1 acetate
Concen: 5.821 ug/l
RT: 12.250 min Scan# 1819
Delta R.T. -0.029 min
Lab File: VD071338.D
Acq: 15 Dec 2021 13:08

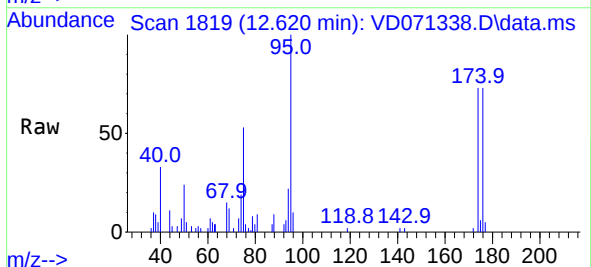
Instrument :
MSVOA_D
ClientSampleId :



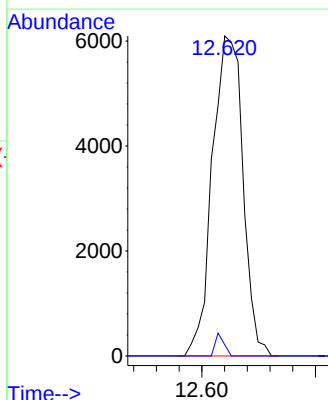
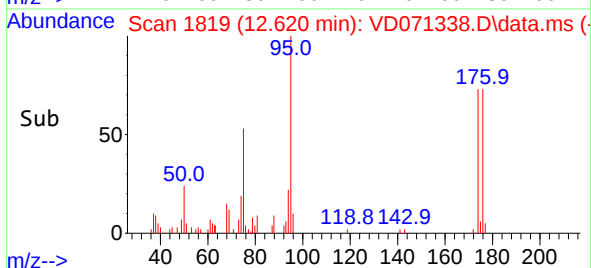
Tgt Ion: 43	Resp: 56
Ion Ratio	Lower Upper
43	100
70	0.0 36.6 55.0#
55	126.8 22.5 33.7#
61	0.0 20.5 30.7#

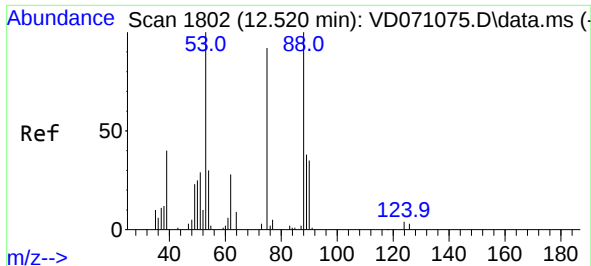


#76
1,2,3-Trichloropropane
Concen: 57.320 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD071338.D
Acq: 15 Dec 2021 13:08



Tgt Ion: 75	Resp: 11379
Ion Ratio	Lower Upper
75	100
77	2.0 158.4 475.3#

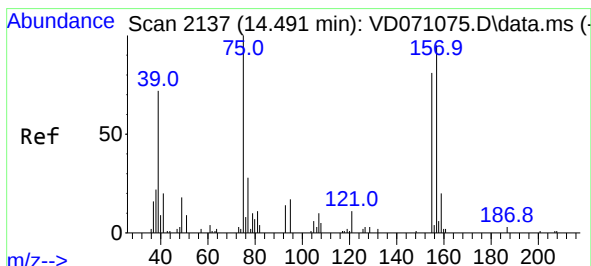
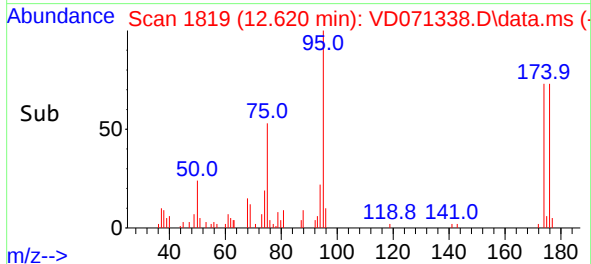
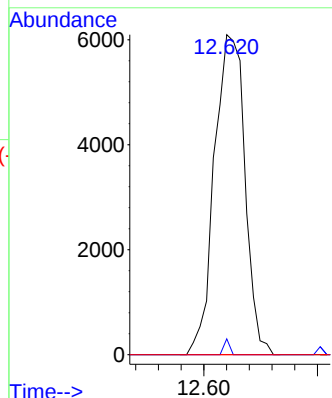
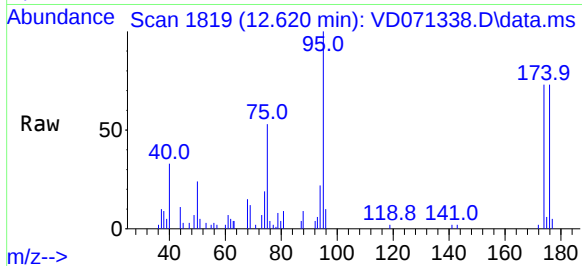




#81
 trans-1,4-Dichloro-2-butene
 Concen: 124.360 ug/l
 RT: 12.620 min Scan# 11379
 Delta R.T. 0.100 min
 Lab File: VD071338.D
 Acq: 15 Dec 2021 13:08

Instrument :
 MSVOA_D
 ClientSampleId :

Tgt Ion: 75 Resp: 11379
 Ion Ratio Lower Upper
 75 100
 53 0.9 62.6 94.0#
 89 0.0 34.5 51.7#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.114 ug/l
 RT: 14.585 min Scan# 2153
 Delta R.T. 0.094 min
 Lab File: VD071338.D
 Acq: 15 Dec 2021 13:08

Tgt Ion: 75 Resp: 126
 Ion Ratio Lower Upper
 75 100
 155 0.0 40.0 120.0#
 157 0.0 49.8 149.3#

