

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111121\
 Data File : VD070991.D
 Acq On : 11 Nov 2021 15:00
 Operator : VA/SY
 Sample : M4576-05
 Misc : 6.29G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Nov 12 08:01:26 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D110921S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 10 03:55:51 2021
 Response via : Initial Calibration

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

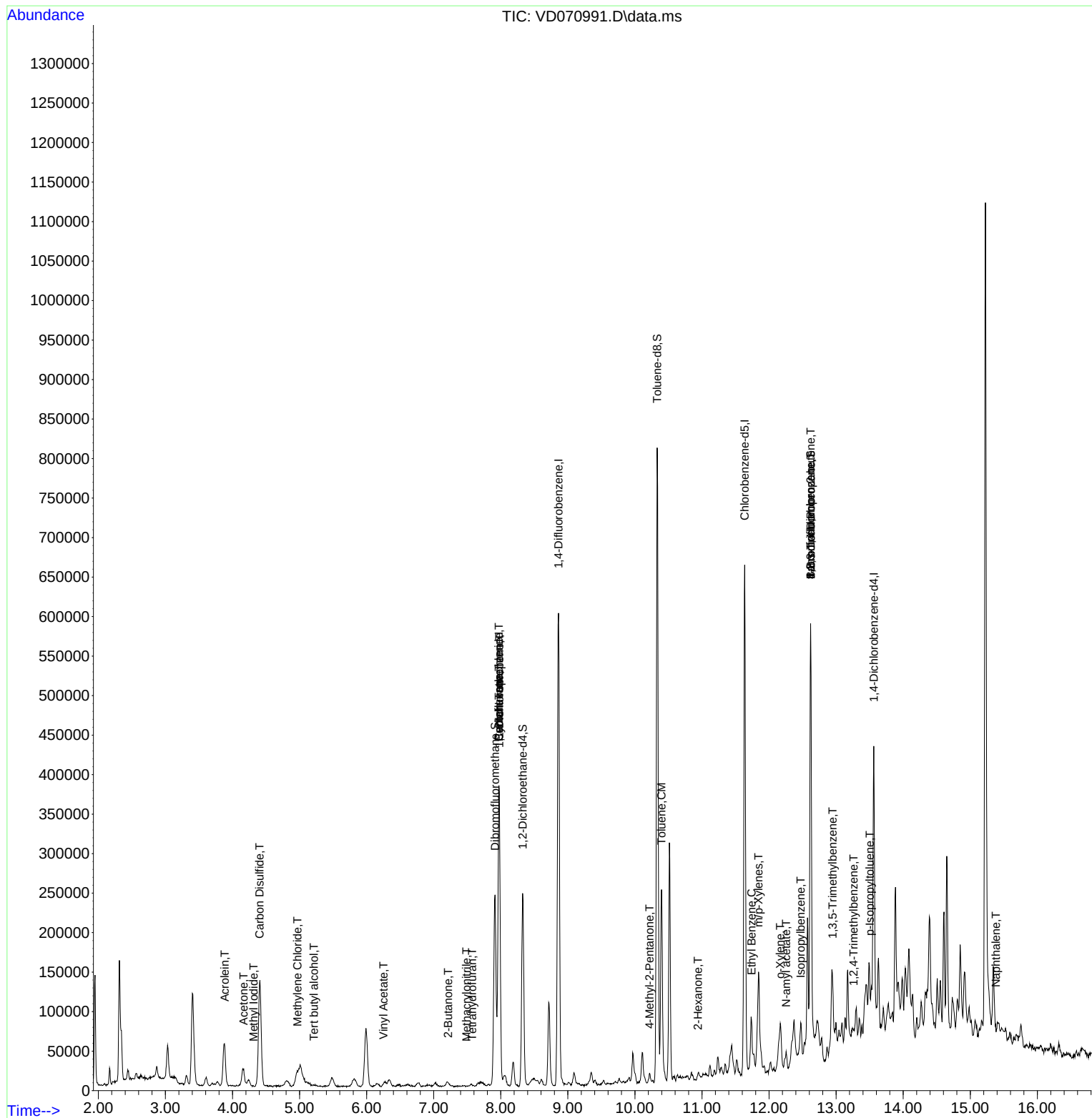
Internal Standards						
1) Pentafluorobenzene	7.973	168	262922	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	503498	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	345473	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	72122	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	187536	66.993	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 133.980%			
35) Dibromofluoromethane	7.914	113	172430	60.690	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 121.380%			
50) Toluene-d8	10.332	98	523715	47.069	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 94.140%			
62) 4-Bromofluorobenzene	12.620	95	127004	31.702	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 63.400%			
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.314	142	330	6.117	ug/l #	63
11) Tert butyl alcohol	5.214	59	2738	13.383	ug/l #	71
13) Acrolein	3.885	56	2559	36.344	ug/l #	1
16) Acetone	4.167	43	39942	68.447	ug/l	96
17) Carbon Disulfide	4.403	76	279339	34.651	ug/l	96
20) Methylene Chloride	4.967	84	11541	3.229	ug/l	94
23) Vinyl Acetate	6.250	43	376	21.045	ug/l #	72
25) 2-Butanone	7.214	43	5233	25.287	ug/l #	80
29) Tetrahydrofuran	7.573	42	916	1.610	ug/l #	34
31) Cyclohexane	7.973	56	14908	2.590	ug/l #	58
36) 1,1-Dichloropropene	7.979	75	23972	5.332	ug/l #	49
38) Carbon Tetrachloride	7.973	117	27450	6.631	ug/l #	16
41) Methacrylonitrile	7.491	41	307	3.695	ug/l #	49
51) 4-Methyl-2-Pentanone	10.220	43	7566	3.595	ug/l	96
52) Toluene	10.396	92	102659	12.864	ug/l	96
59) 2-Hexanone	10.938	43	5765	19.215	ug/l #	22
67) Ethyl Benzene	11.738	91	38319	3.283	ug/l	96
68) m/p-Xylenes	11.843	106	21215	4.863	ug/l	88
69) o-Xylene	12.167	106	10597	2.554	ug/l	96
71) Bromoform	12.620	173	1408	1.234	ug/l #	1
73) Isopropylbenzene	12.473	105	6016	1.158	ug/l	84
74) N-amyl acetate	12.255	43	6674	4.496	ug/l #	46
76) 1,2,3-Trichloropropane	12.620	75	70415	114.298	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.949	105	6179	1.444	ug/l	92
81) trans-1,4-Dichloro-2-b...	12.620	75	70415	208.755	ug/l #	19
84) 1,2,4-Trimethylbenzene	13.261	105	10371	2.475	ug/l	86
86) p-Isopropyltoluene	13.502	119	10324	2.321	ug/l #	77
95) Naphthalene	15.384	128	9879	4.299	ug/l #	64

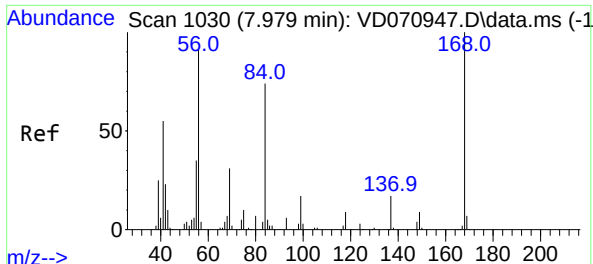
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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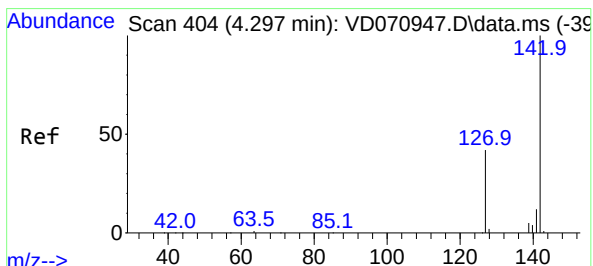
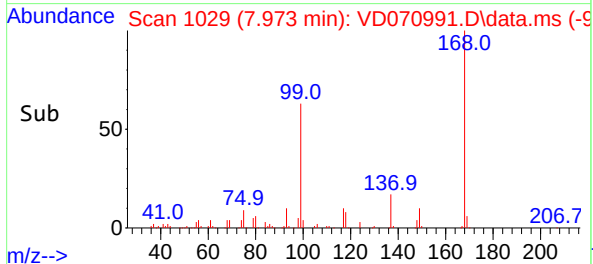
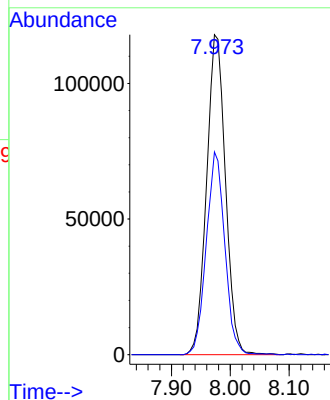
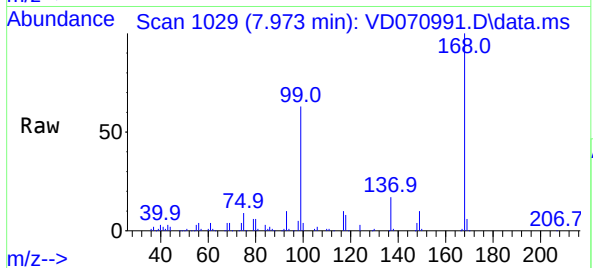




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 10
Delta R.T. -0.006 min
Lab File: VD070991.D
Acq: 11 Nov 2021 15:00

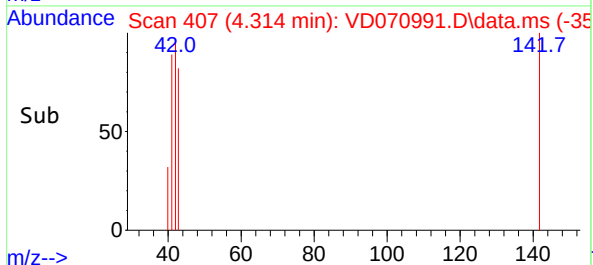
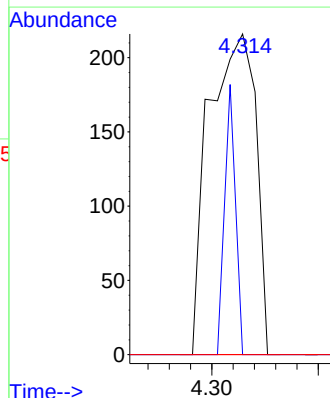
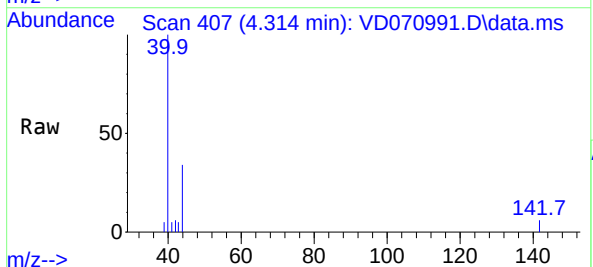
Instrument :
MSVOA_D
ClientSampleId :

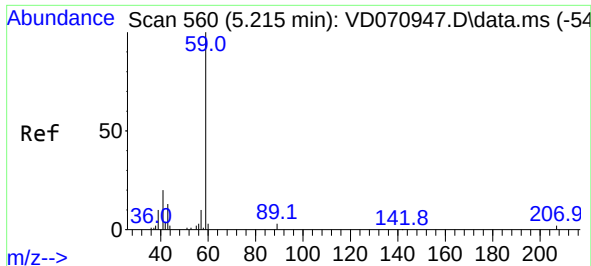
Tgt Ion:168 Resp: 262922
Ion Ratio Lower Upper
168 100
99 63.4 46.6 69.8



#10
Methyl Iodide
Concen: 6.117 ug/l
RT: 4.314 min Scan# 407
Delta R.T. 0.017 min
Lab File: VD070991.D
Acq: 11 Nov 2021 15:00

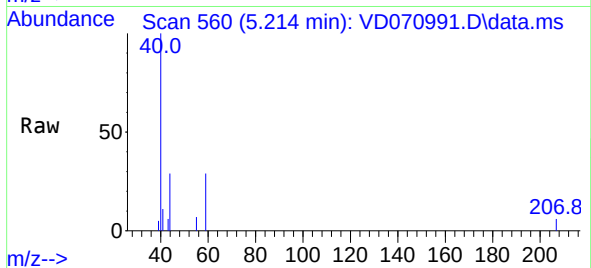
Tgt Ion:142 Resp: 330
Ion Ratio Lower Upper
142 100
127 19.4 35.0 52.4#
141 0.0 12.0 18.0#



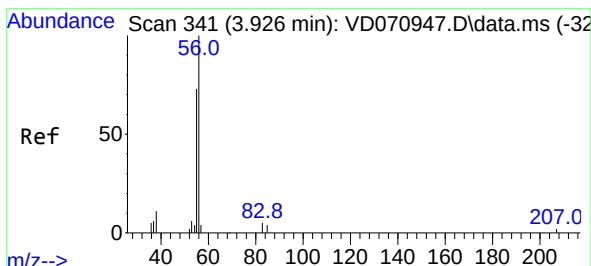
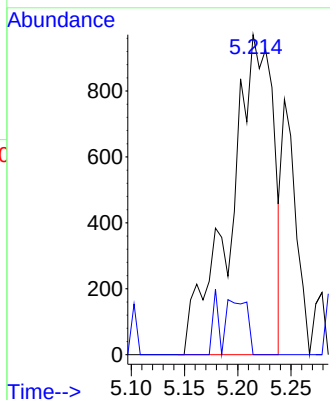
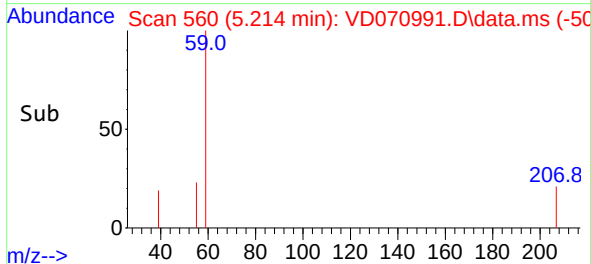


#11
Tert butyl alcohol
Concen: 13.383 ug/l
RT: 5.214 min Scan# 50
Delta R.T. -0.001 min
Lab File: VD070991.D
Acq: 11 Nov 2021 15:00

Instrument :
MSVOA_D
ClientSampleId :

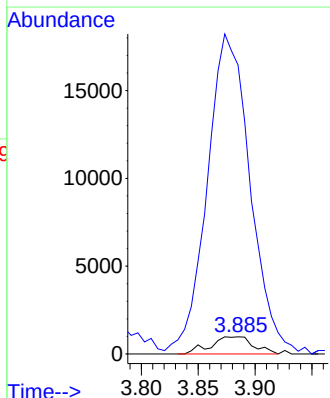
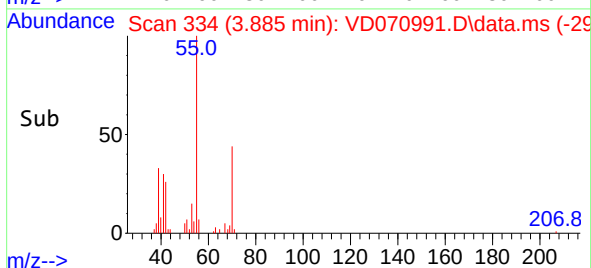
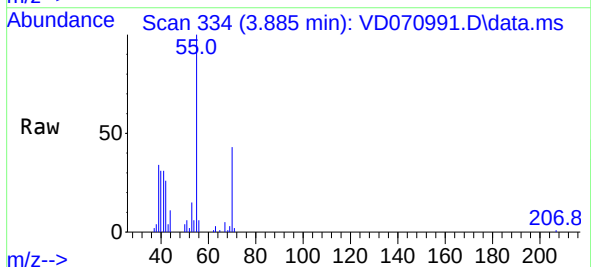


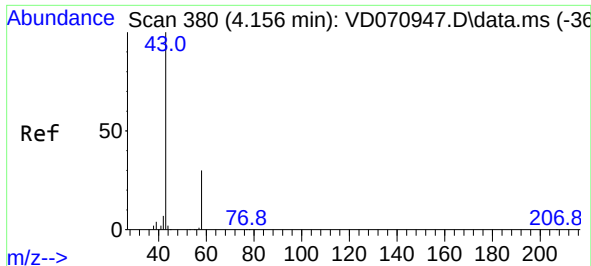
Tgt Ion: 59 Resp: 2738
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



#13
Acrolein
Concen: 36.344 ug/l
RT: 3.885 min Scan# 334
Delta R.T. -0.041 min
Lab File: VD070991.D
Acq: 11 Nov 2021 15:00

Tgt Ion: 56 Resp: 2559
Ion Ratio Lower Upper
56 100
55 1878.3 58.6 87.8#

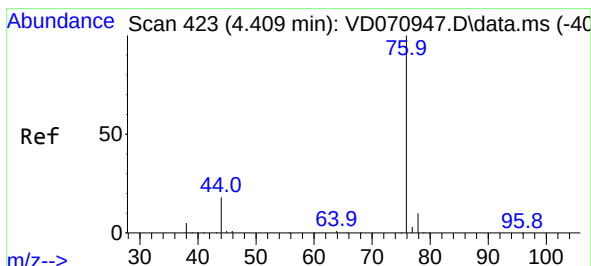
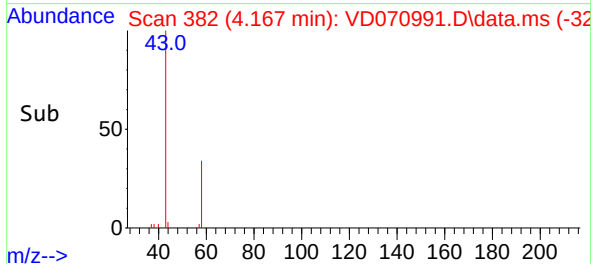
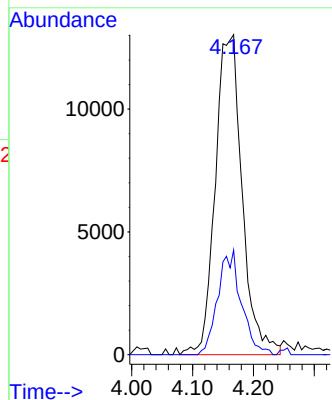
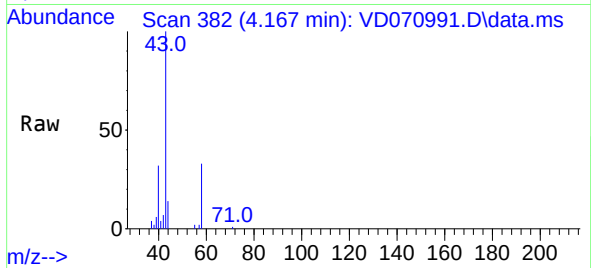




#16
Acetone
Concen: 68.447 ug/l
RT: 4.167 min Scan# 380
Delta R.T. 0.011 min
Lab File: VD070991.D
Acq: 11 Nov 2021 15:00

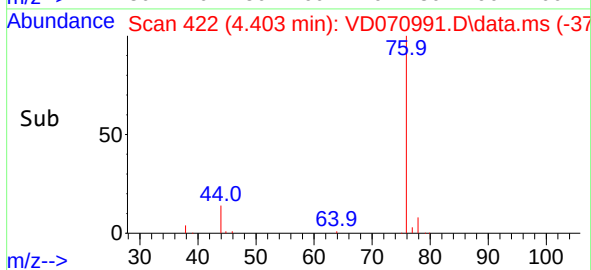
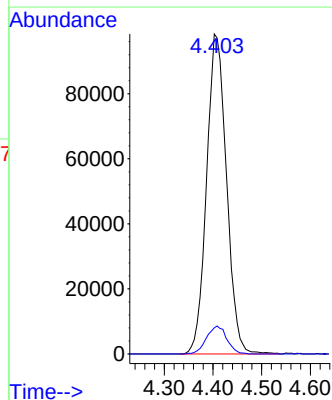
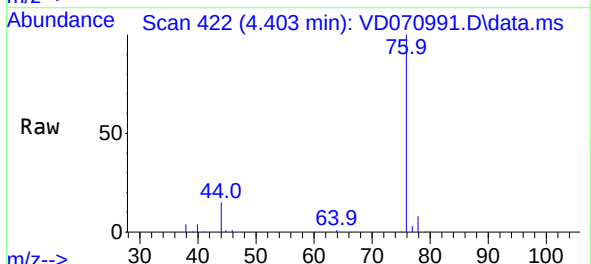
Instrument :
MSVOA_D
ClientSampleId :

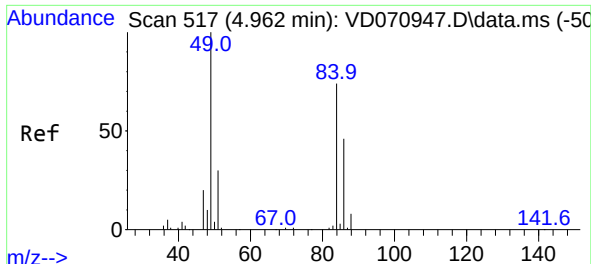
Tgt Ion: 43 Resp: 39942
Ion Ratio Lower Upper
43 100
58 32.7 27.8 41.8



#17
Carbon Disulfide
Concen: 34.651 ug/l
RT: 4.403 min Scan# 422
Delta R.T. -0.006 min
Lab File: VD070991.D
Acq: 11 Nov 2021 15:00

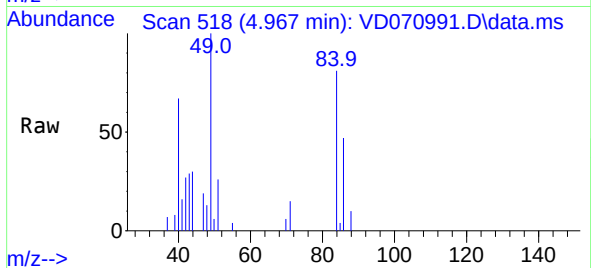
Tgt Ion: 76 Resp: 279339
Ion Ratio Lower Upper
76 100
78 8.1 7.8 11.8



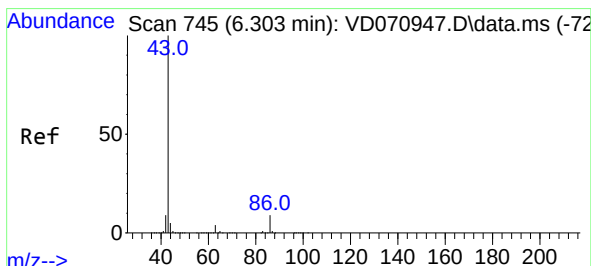
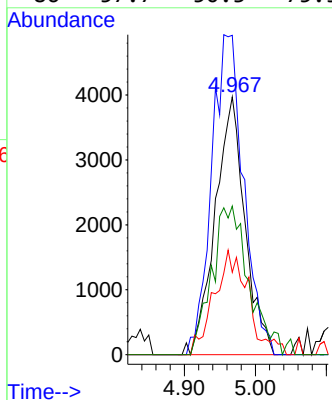
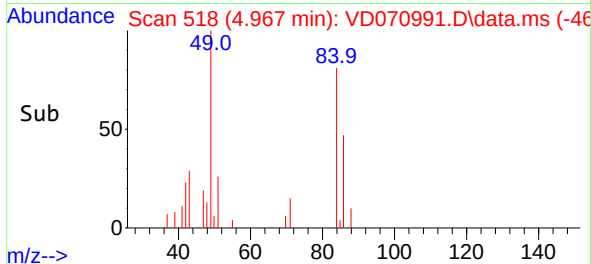


#20
Methylene Chloride
Concen: 3.229 ug/l
RT: 4.967 min Scan# 517
Delta R.T. 0.005 min
Lab File: VD070991.D
Acq: 11 Nov 2021 15:00

Instrument :
MSVOA_D
ClientSampleId :

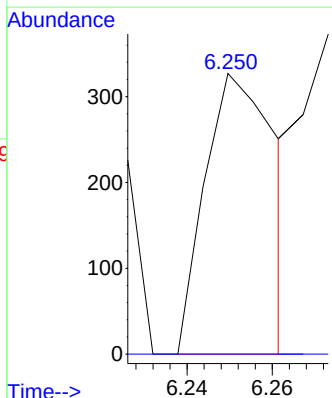
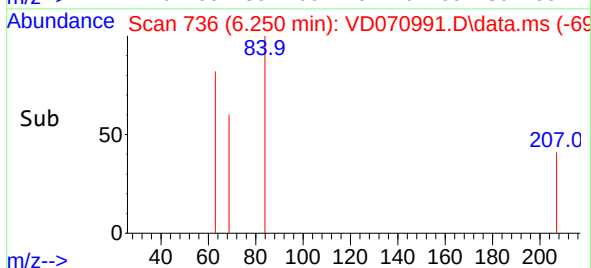
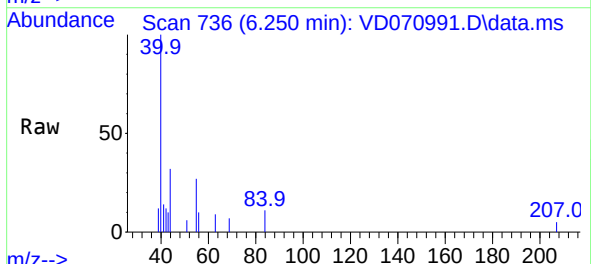


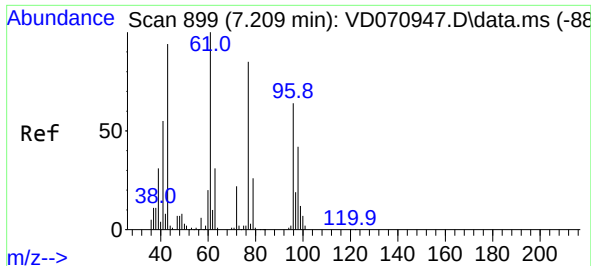
Tgt Ion: 84 Resp: 11541
Ion Ratio Lower Upper
84 100
49 123.8 95.8 143.6
51 31.9 30.9 46.3
86 57.7 50.3 75.5



#23
Vinyl Acetate
Concen: 21.045 ug/l
RT: 6.250 min Scan# 736
Delta R.T. -0.053 min
Lab File: VD070991.D
Acq: 11 Nov 2021 15:00

Tgt Ion: 43 Resp: 376
Ion Ratio Lower Upper
43 100
86 0.0 8.2 12.4#





#25

2-Butanone

Concen: 25.287 ug/l

RT: 7.214 min Scan# 90

Delta R.T. 0.005 min

Lab File: VD070991.D

Acq: 11 Nov 2021 15:00

Instrument :

MSVOA_D

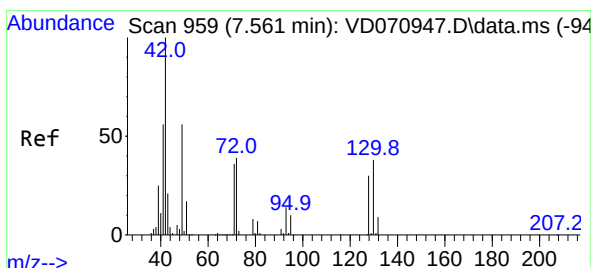
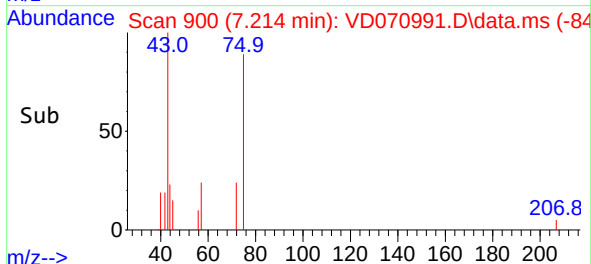
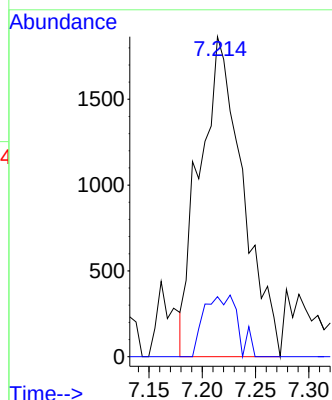
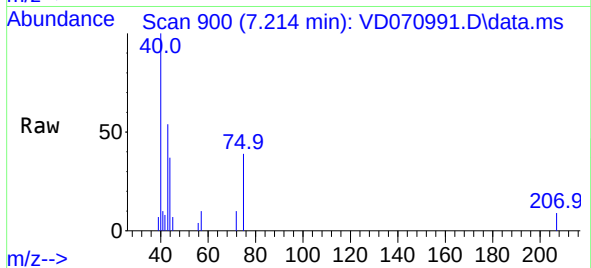
ClientSampleId :

Tgt Ion: 43 Resp: 5233

Ion Ratio Lower Upper

43 100

72 18.8 23.8 35.6#



#29

Tetrahydrofuran

Concen: 1.610 ug/l

RT: 7.573 min Scan# 961

Delta R.T. 0.012 min

Lab File: VD070991.D

Acq: 11 Nov 2021 15:00

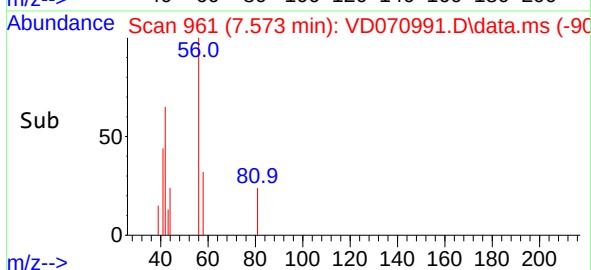
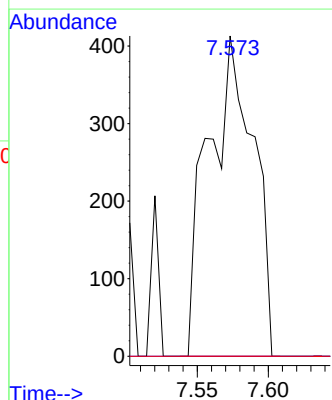
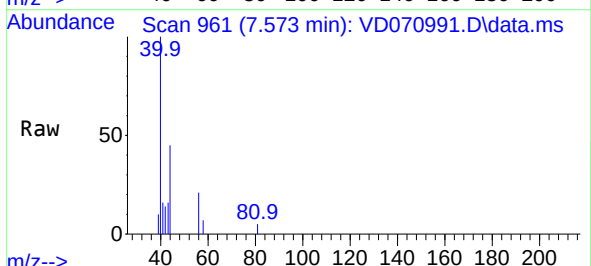
Tgt Ion: 42 Resp: 916

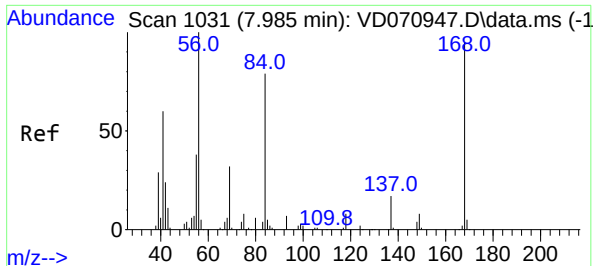
Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

71 0.0 32.7 49.1#





#31

Cyclohexane

Concen: 2.590 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.012 min

Lab File: VD070991.D

Acq: 11 Nov 2021 15:00

Instrument :

MSVOA_D

ClientSampleId :

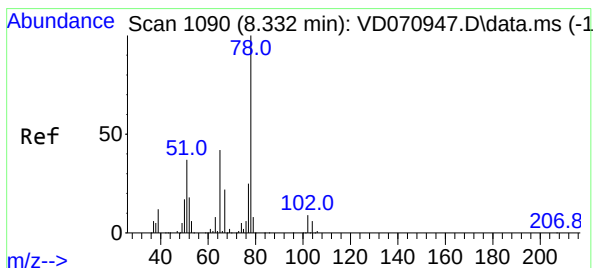
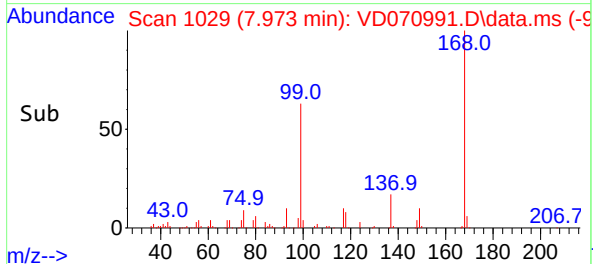
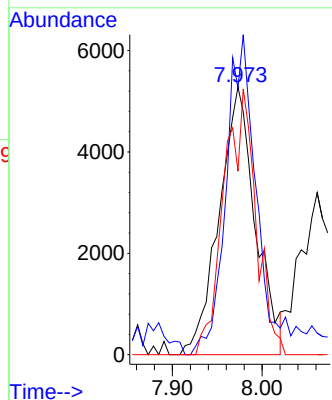
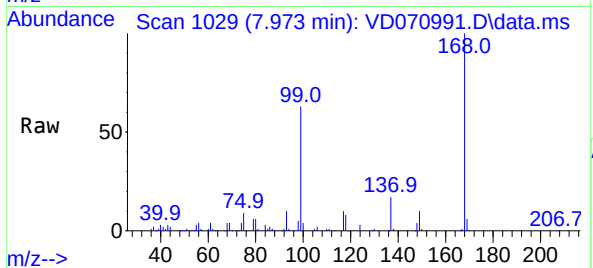
Tgt Ion: 56 Resp: 14908

Ion Ratio Lower Upper

56 100

69 95.0 25.9 38.9#

84 68.6 64.3 96.5



#33

1,2-Dichloroethane-d4

Concen: 66.993 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. -0.006 min

Lab File: VD070991.D

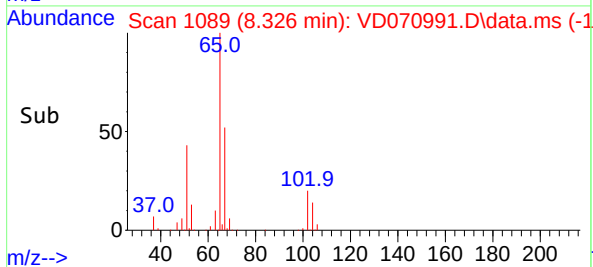
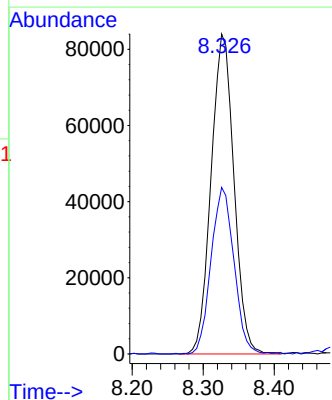
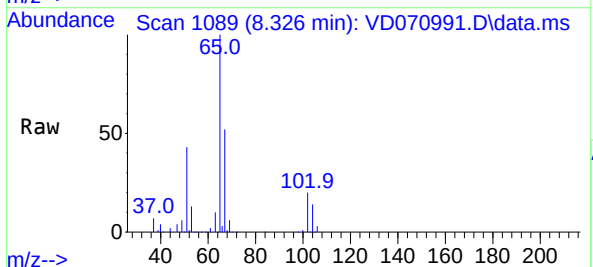
Acq: 11 Nov 2021 15:00

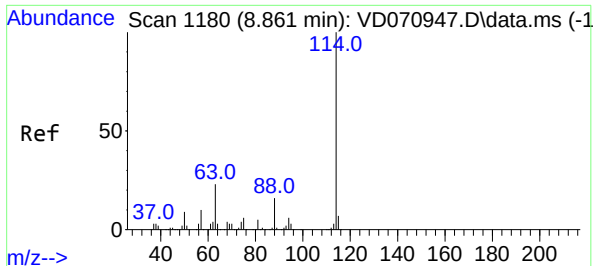
Tgt Ion: 65 Resp: 187536

Ion Ratio Lower Upper

65 100

67 52.3 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: VD070991.D

Acq: 11 Nov 2021 15:00

Instrument :

MSVOA_D

ClientSampleId :

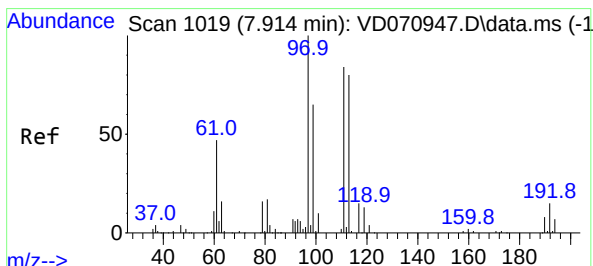
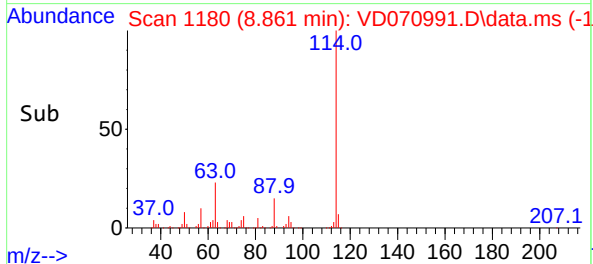
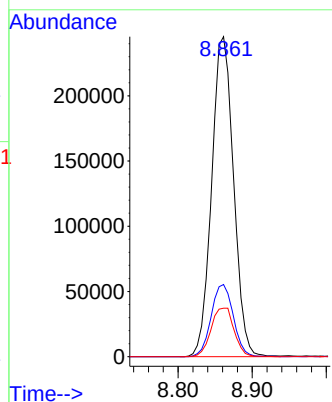
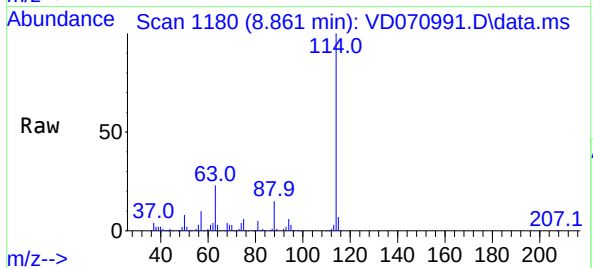
Tgt Ion:114 Resp: 503498

Ion Ratio Lower Upper

114 100

63 22.5 0.0 41.8

88 15.2 0.0 32.8



#35

Dibromofluoromethane

Concen: 60.690 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. 0.000 min

Lab File: VD070991.D

Acq: 11 Nov 2021 15:00

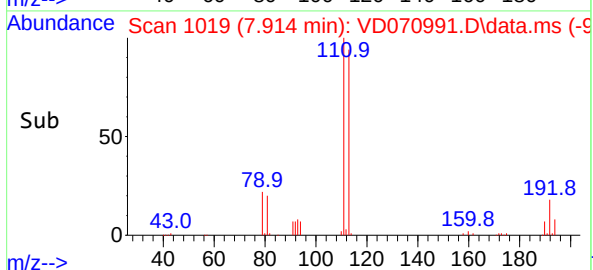
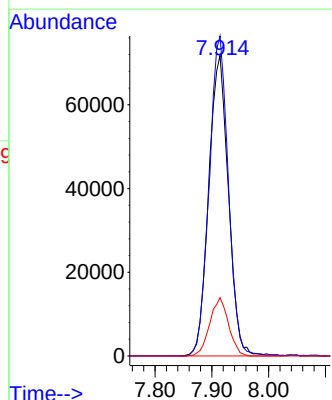
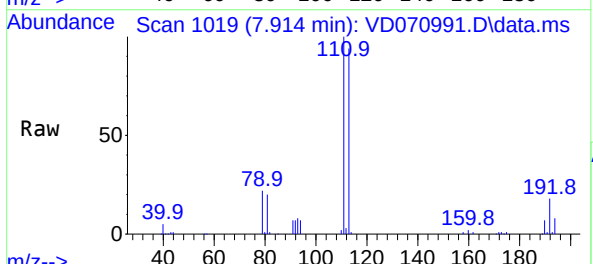
Tgt Ion:113 Resp: 172430

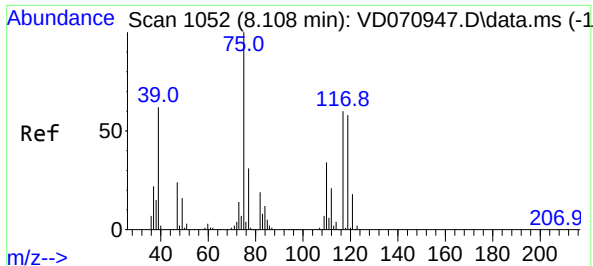
Ion Ratio Lower Upper

113 100

111 103.9 82.0 123.0

192 18.5 15.2 22.8





#36

1,1-Dichloropropene

Concen: 5.332 ug/l

RT: 7.979 min Scan# 1029

Delta R.T. -0.129 min

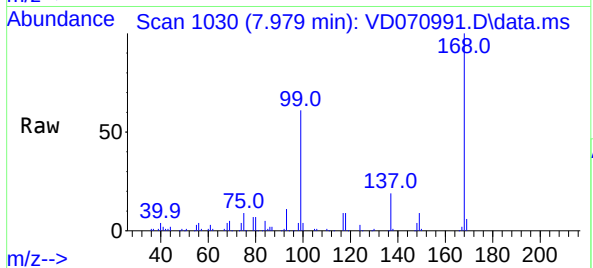
Lab File: VD070991.D

Acq: 11 Nov 2021 15:00

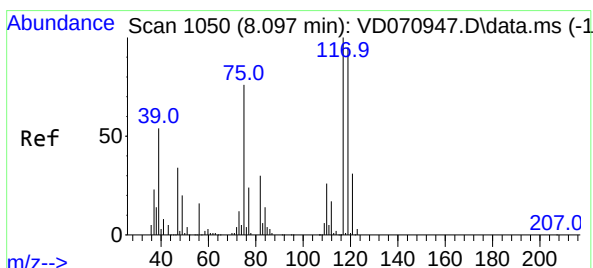
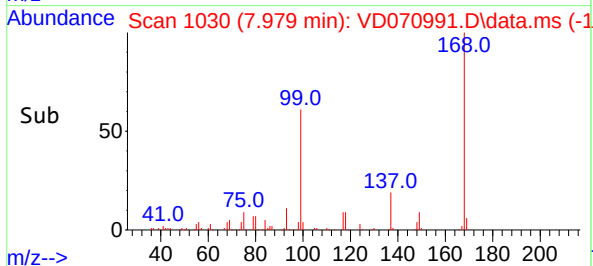
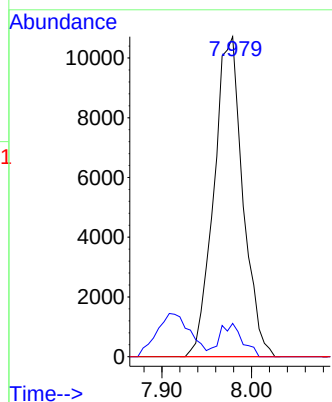
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:	75	Resp:	23972
Ion Ratio	Lower	Upper	
75	100		
110	8.2	17.8	53.4#
77	0.0	24.8	37.2#



#38

Carbon Tetrachloride

Concen: 6.631 ug/l

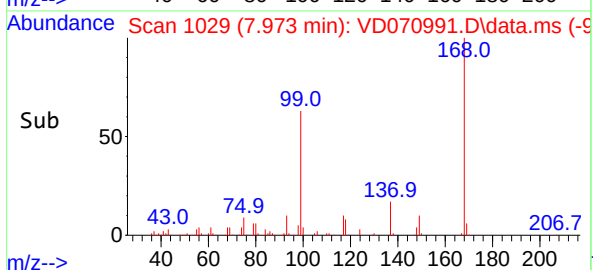
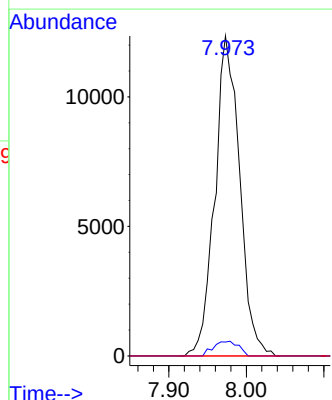
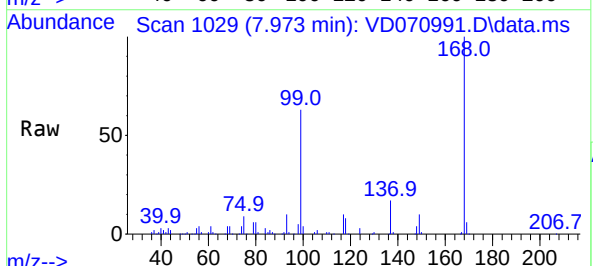
RT: 7.973 min Scan# 1029

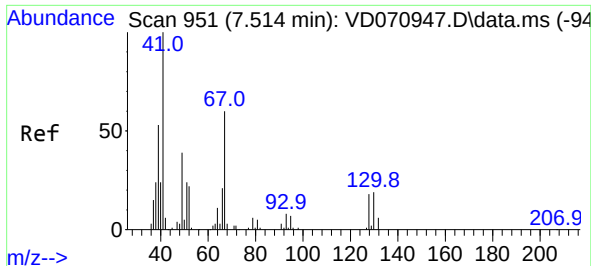
Delta R.T. -0.124 min

Lab File: VD070991.D

Acq: 11 Nov 2021 15:00

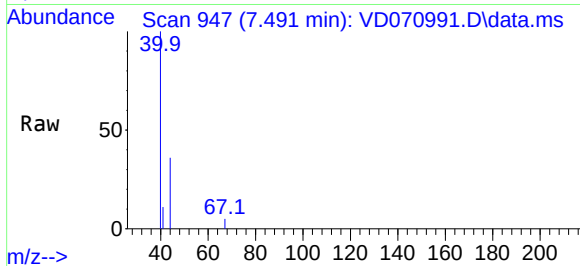
Tgt Ion:	117	Resp:	27450
Ion Ratio	Lower	Upper	
117	100		
119	4.4	75.8	113.6#
121	0.0	23.6	35.4#



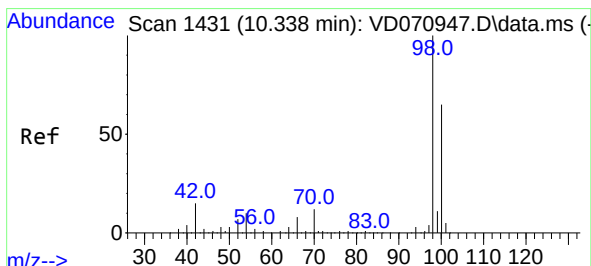
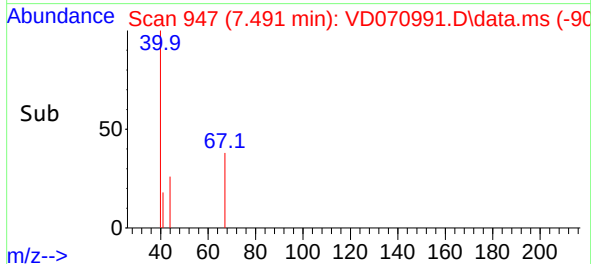
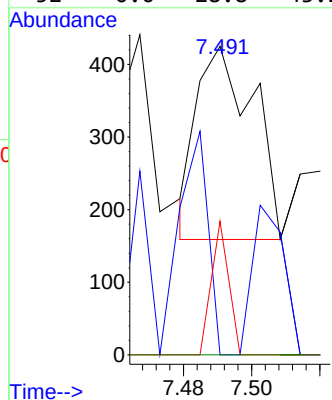


#41
Methacrylonitrile
Concen: 3.695 ug/l
RT: 7.491 min Scan# 94
Delta R.T. -0.023 min
Lab File: VD070991.D
Acq: 11 Nov 2021 15:00

Instrument :
MSVOA_D
ClientSampleId :

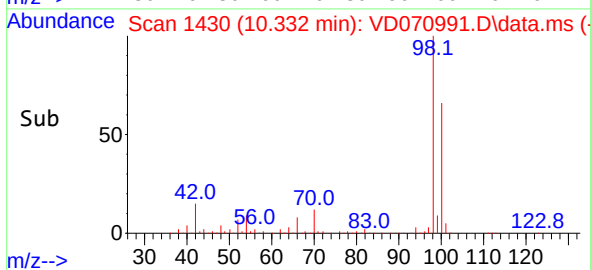
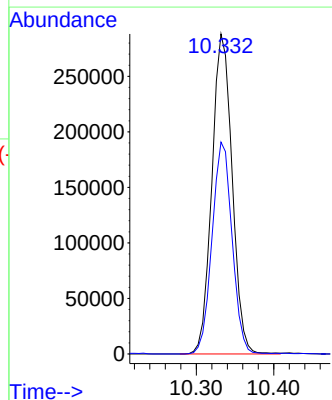
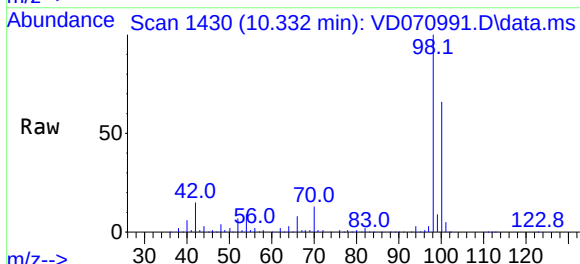


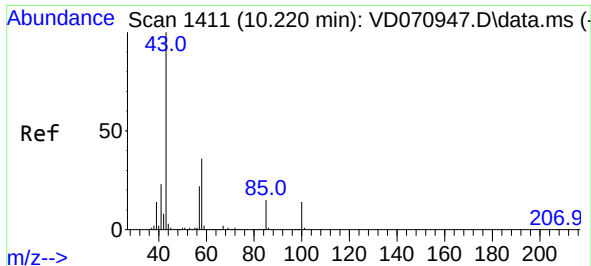
Tgt Ion: 41	Resp: 307
Ion Ratio	Lower Upper
41 100	
39 87.9	60.2 90.4
67 21.2	74.8 112.2#
52 0.0	28.8 43.2#



#50
Toluene-d8
Concen: 47.069 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.006 min
Lab File: VD070991.D
Acq: 11 Nov 2021 15:00

Tgt Ion: 98	Resp: 523715
Ion Ratio	Lower Upper
98 100	
100 65.5	51.8 77.6

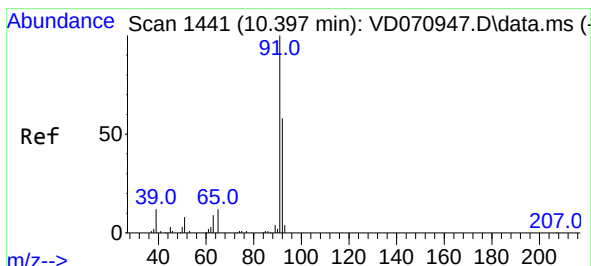
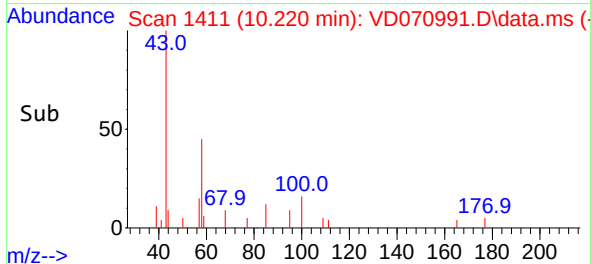
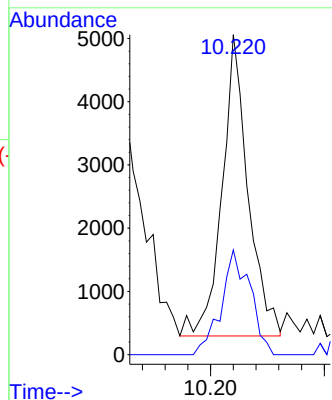
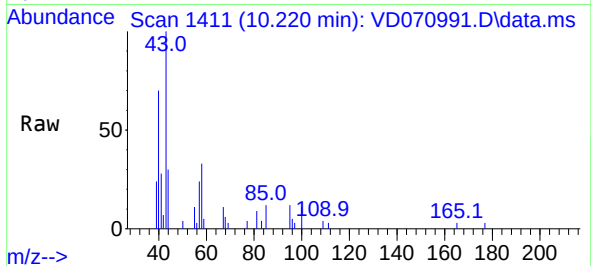




#51
4-Methyl-2-Pentanone
Concen: 3.595 ug/l
RT: 10.220 min Scan# 1411
Delta R.T. -0.000 min
Lab File: VD070991.D
Acq: 11 Nov 2021 15:00

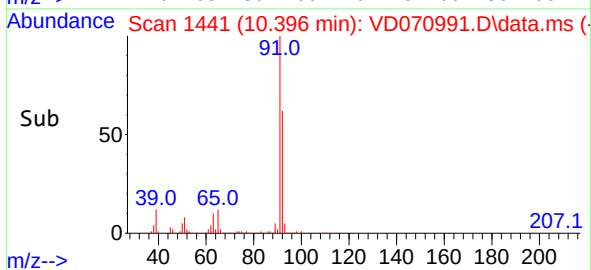
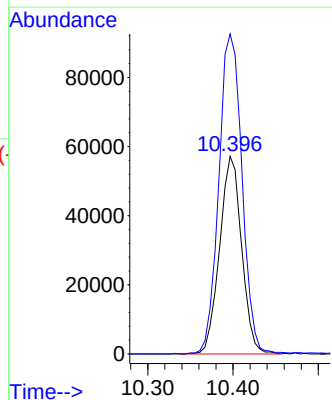
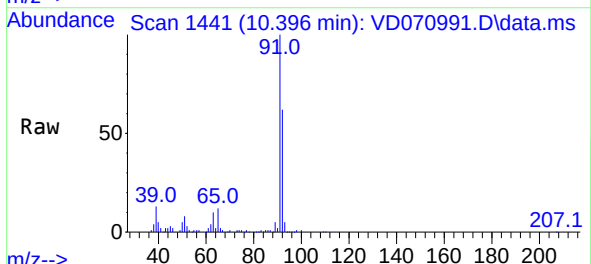
Instrument :
MSVOA_D
ClientSampleId :

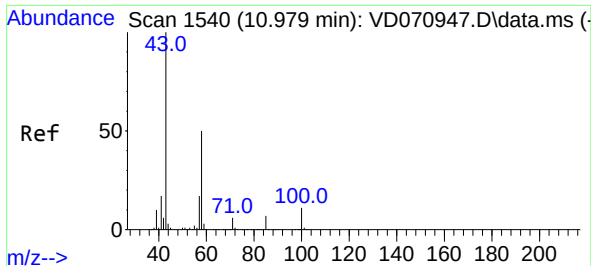
Tgt Ion: 43 Resp: 7566
Ion Ratio Lower Upper
43 100
58 38.7 33.1 49.7



#52
Toluene
Concen: 12.864 ug/l
RT: 10.396 min Scan# 1441
Delta R.T. -0.001 min
Lab File: VD070991.D
Acq: 11 Nov 2021 15:00

Tgt Ion: 92 Resp: 102659
Ion Ratio Lower Upper
92 100
91 170.5 140.7 211.1

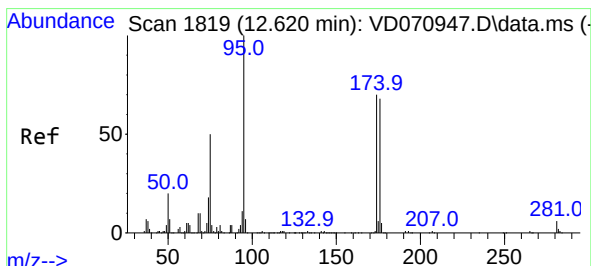
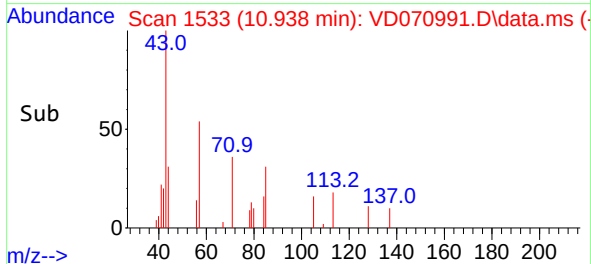
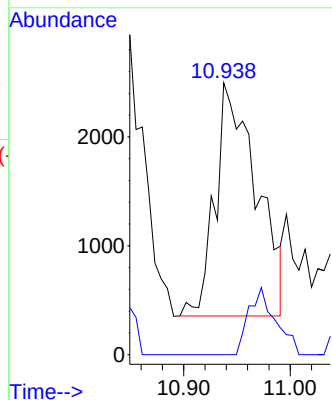
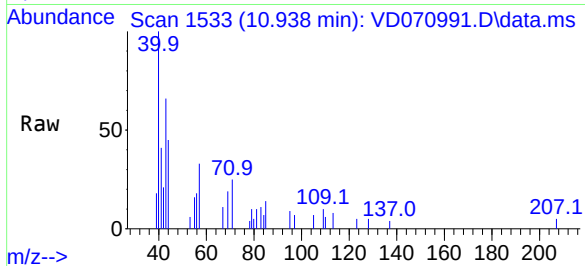




#59
2-Hexanone
Concen: 19.215 ug/l
RT: 10.938 min Scan# 1533
Delta R.T. -0.041 min
Lab File: VD070991.D
Acq: 11 Nov 2021 15:00

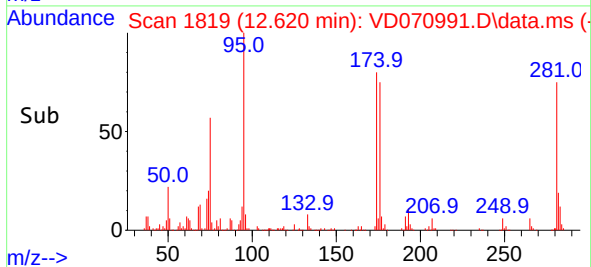
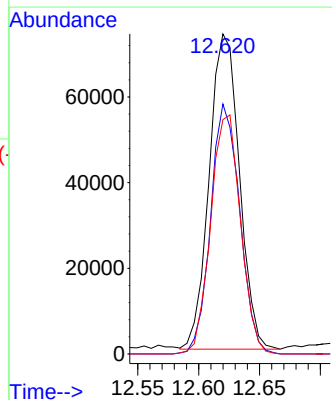
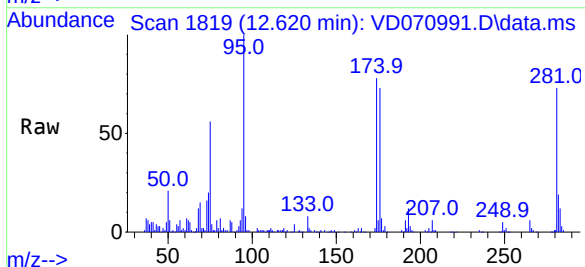
Instrument :
MSVOA_D
ClientSampleId :

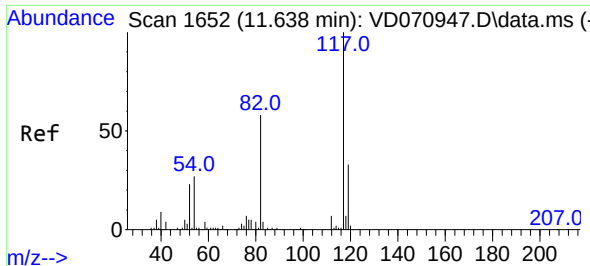
Tgt Ion: 43 Resp: 5765
Ion Ratio Lower Upper
43 100
58 0.0 28.7 86.1#



#62
4-Bromofluorobenzene
Concen: 31.702 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.000 min
Lab File: VD070991.D
Acq: 11 Nov 2021 15:00

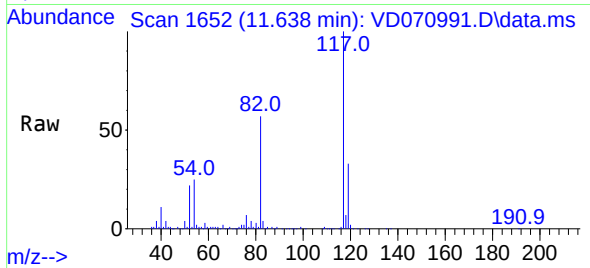
Tgt Ion: 95 Resp: 127004
Ion Ratio Lower Upper
95 100
174 76.4 0.0 159.4
176 74.8 0.0 154.0



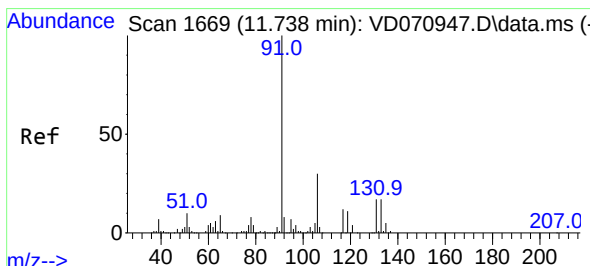
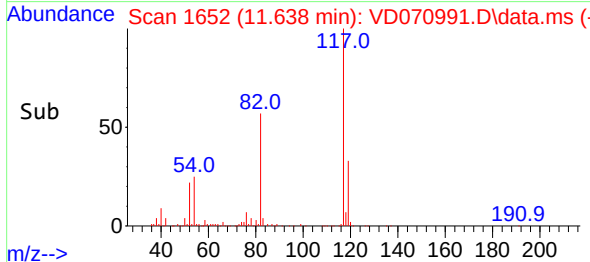
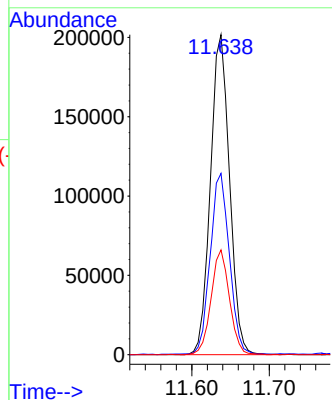


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD070991.D
Acq: 11 Nov 2021 15:00

Instrument :
MSVOA_D
ClientSampleId :

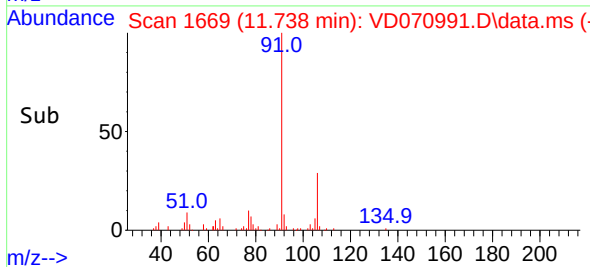
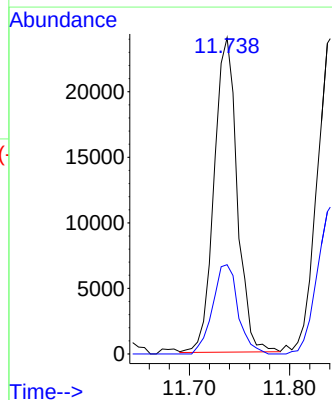
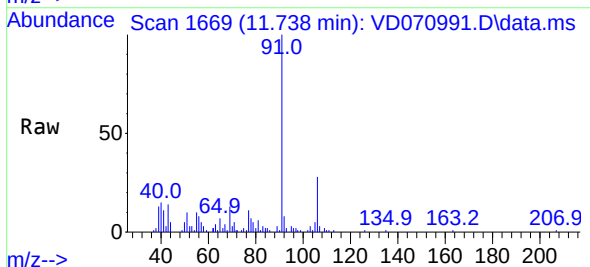


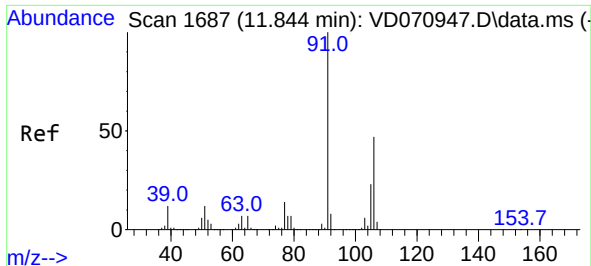
Tgt Ion:117 Resp: 345473
Ion Ratio Lower Upper
117 100
82 56.4 44.7 67.1
119 32.7 26.2 39.4



#67
Ethyl Benzene
Concen: 3.283 ug/l
RT: 11.738 min Scan# 1669
Delta R.T. -0.000 min
Lab File: VD070991.D
Acq: 11 Nov 2021 15:00

Tgt Ion: 91 Resp: 38319
Ion Ratio Lower Upper
91 100
106 28.4 24.6 36.8

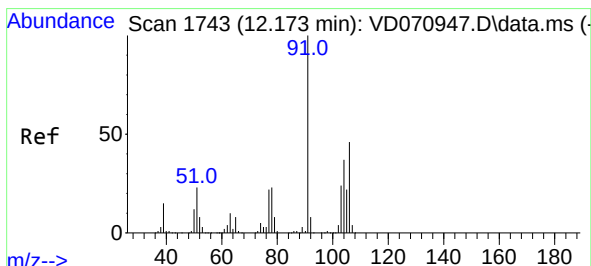
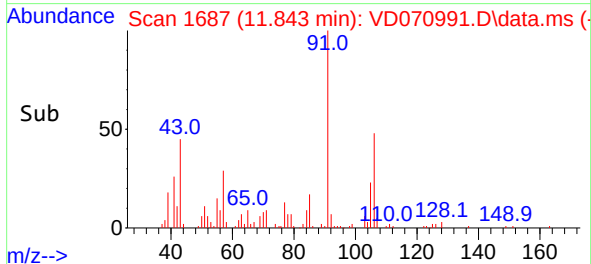
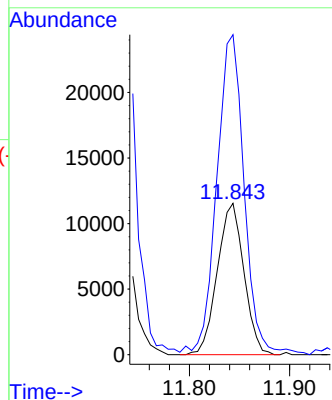
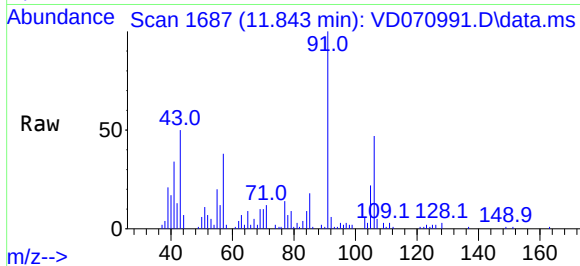




#68
m/p-Xylenes
Concen: 4.863 ug/l
RT: 11.843 min Scan# 1184
Delta R.T. -0.001 min
Lab File: VD070991.D
Acq: 11 Nov 2021 15:00

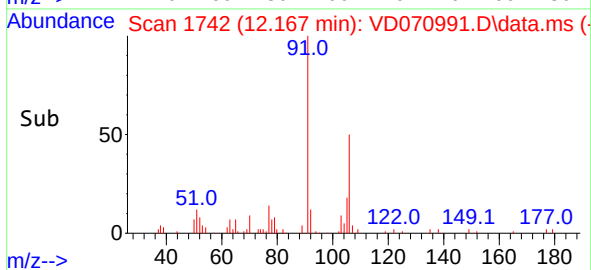
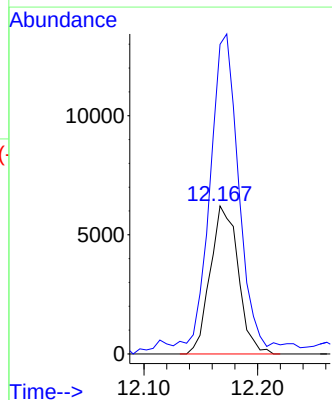
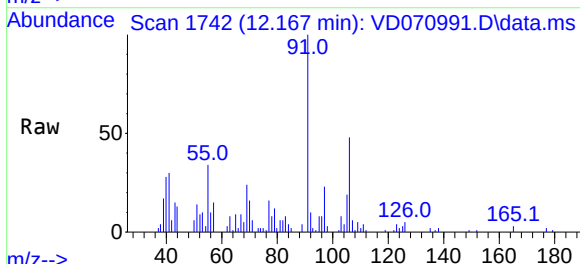
Instrument :
MSVOA_D
ClientSampleId :

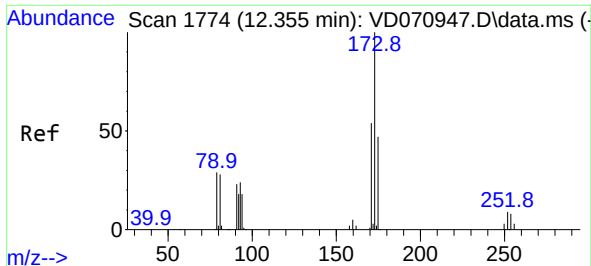
Tgt Ion:106 Resp: 21215
Ion Ratio Lower Upper
106 100
91 218.3 160.1 240.1



#69
o-Xylene
Concen: 2.554 ug/l
RT: 12.167 min Scan# 1742
Delta R.T. -0.006 min
Lab File: VD070991.D
Acq: 11 Nov 2021 15:00

Tgt Ion:106 Resp: 10597
Ion Ratio Lower Upper
106 100
91 218.7 106.3 319.0

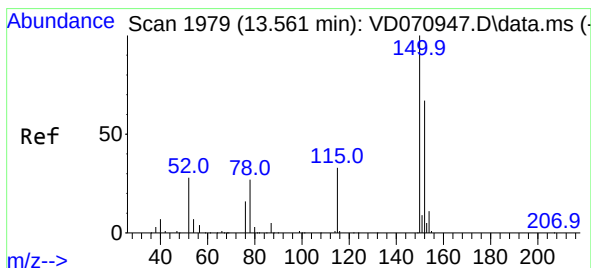
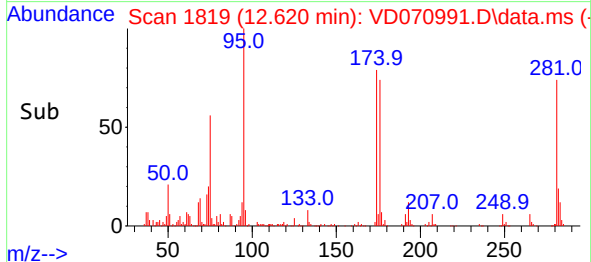
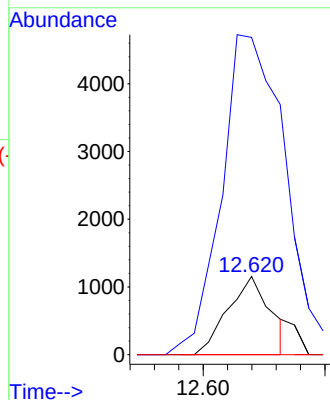
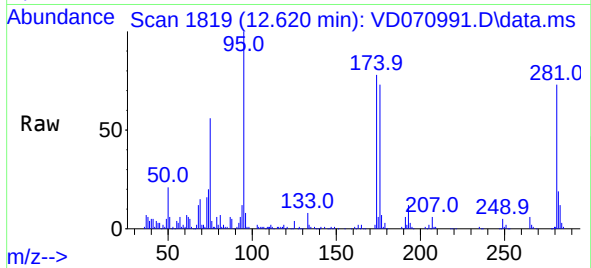




#71
Bromoform
Concen: 1.234 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.265 min
Lab File: VD070991.D
Acq: 11 Nov 2021 15:00

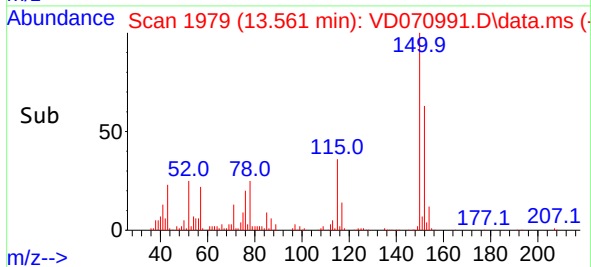
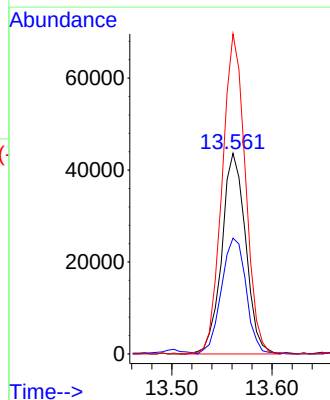
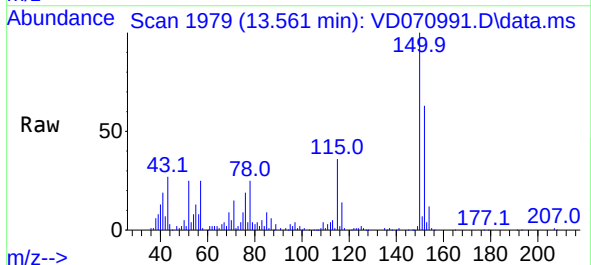
Instrument :
MSVOA_D
ClientSampleId :

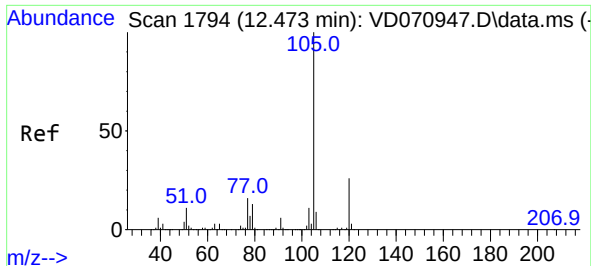
Tgt Ion:173 Resp: 1408
Ion Ratio Lower Upper
173 100
175 534.1 24.1 72.2#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. -0.000 min
Lab File: VD070991.D
Acq: 11 Nov 2021 15:00

Tgt Ion:152 Resp: 72122
Ion Ratio Lower Upper
152 100
115 60.1 29.8 89.3
150 155.2 0.0 349.2

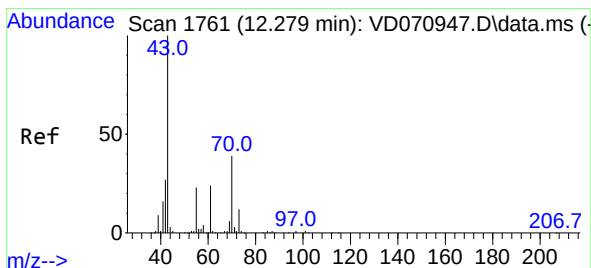
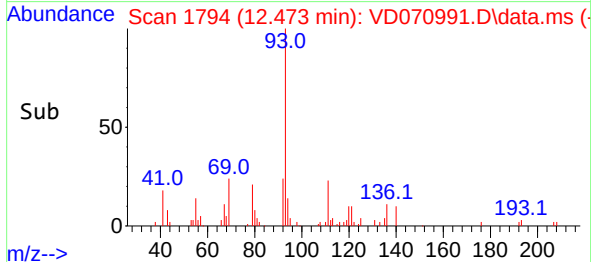
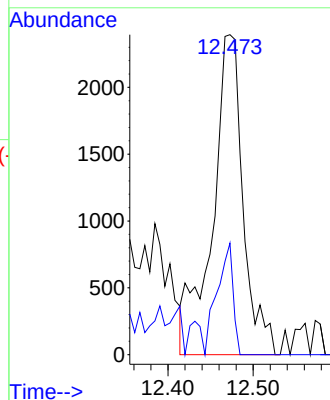
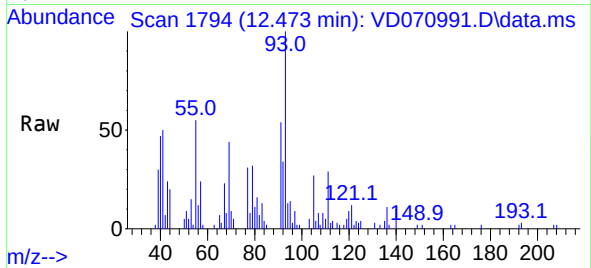




#73
Isopropylbenzene
Concen: 1.158 ug/l
RT: 12.473 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD070991.D
Acq: 11 Nov 2021 15:00

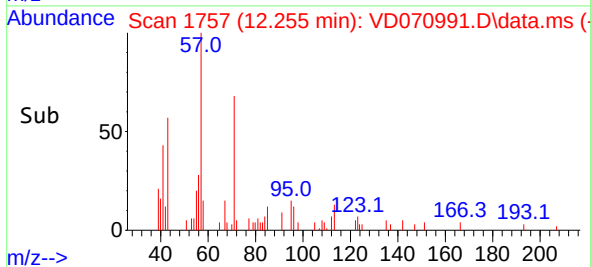
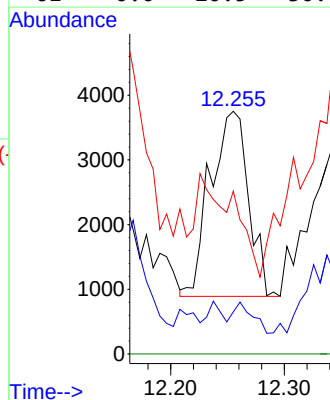
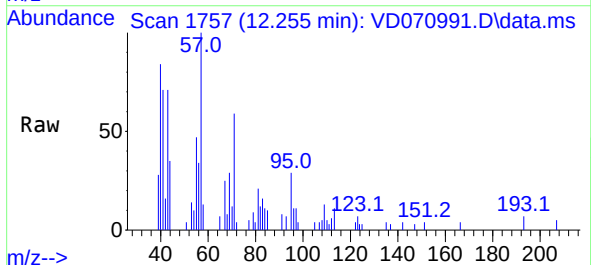
Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion:105 Resp: 6016
Ion Ratio Lower Upper
105 100
120 18.1 13.2 39.5

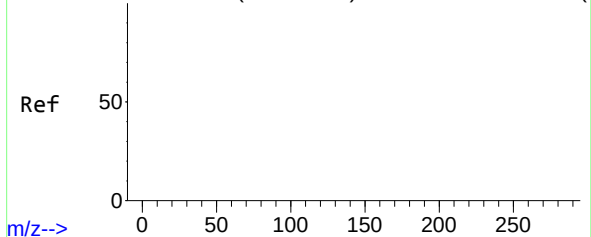


#74
N-ethyl acetate
Concen: 4.496 ug/l
RT: 12.255 min Scan# 1757
Delta R.T. -0.024 min
Lab File: VD070991.D
Acq: 11 Nov 2021 15:00

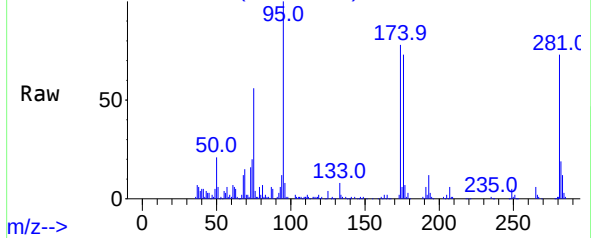
Tgt Ion: 43 Resp: 6674
Ion Ratio Lower Upper
43 100
70 8.3 36.6 55.0#
55 0.0 22.5 33.7#
61 0.0 20.5 30.7#



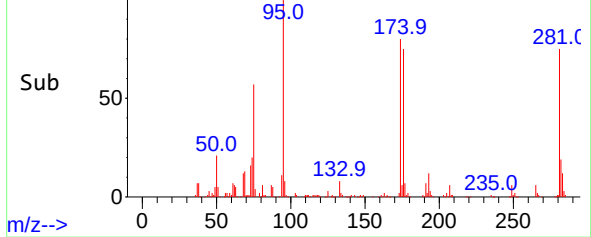
Abundance Scan 1847 (12.785 min): VD070947.D\data.ms (-



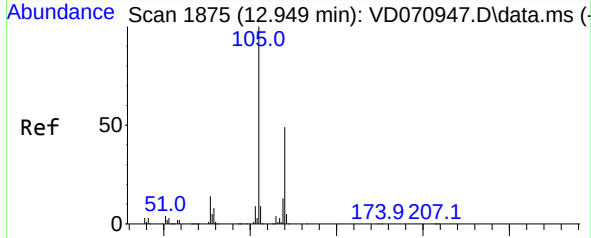
Ref



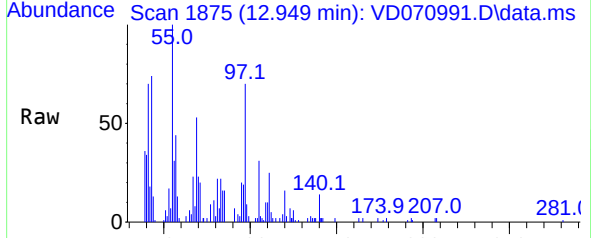
Raw



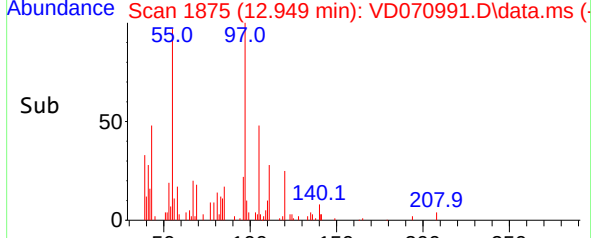
Sub



Ref



Raw

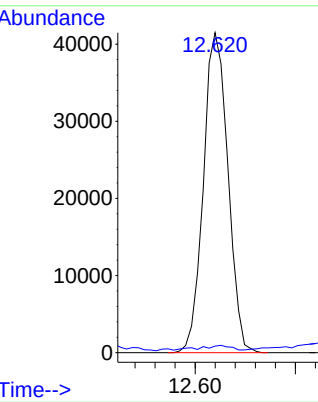


Sub

m/z-->

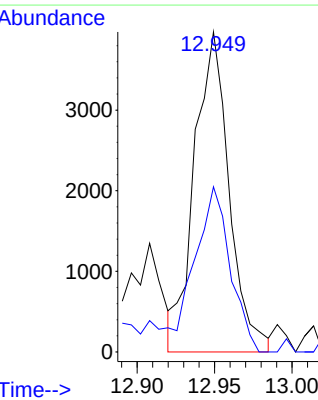
#76
1,2,3-Trichloropropane
Concen: 114.298 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.165 min
Lab File: VD070991.D
Acq: 11 Nov 2021 15:00

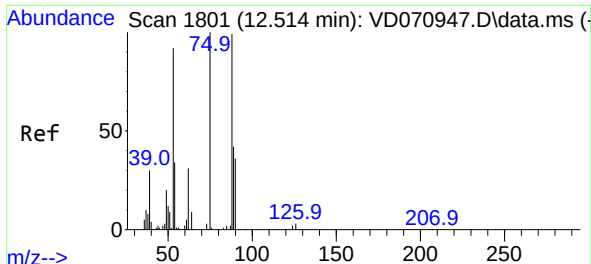
Tgt Ion: 75 Resp: 70415
Ion Ratio Lower Upper
75 100
77 1.3 158.4 475.3#



#80
1,3,5-Trimethylbenzene
Concen: 1.444 ug/l
RT: 12.949 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VD070991.D
Acq: 11 Nov 2021 15:00

Tgt Ion: 105 Resp: 6179
Ion Ratio Lower Upper
105 100
120 54.4 24.6 73.8

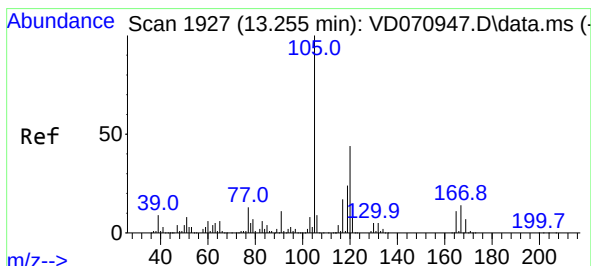
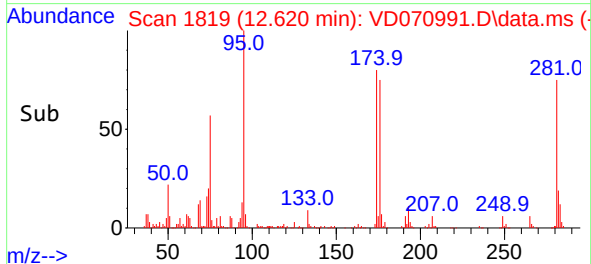
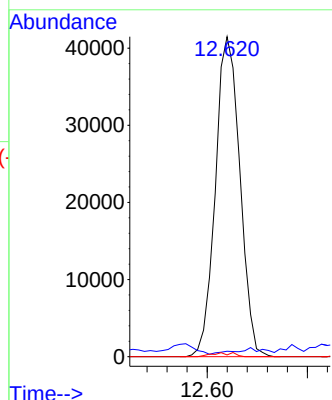
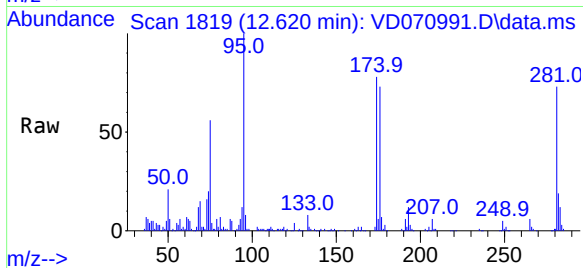




#81
trans-1,4-Dichloro-2-butene
Concen: 208.755 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.106 min
Lab File: VD070991.D
Acq: 11 Nov 2021 15:00

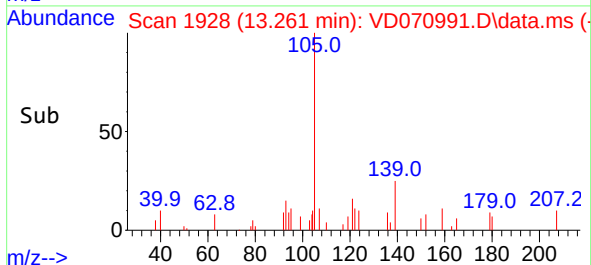
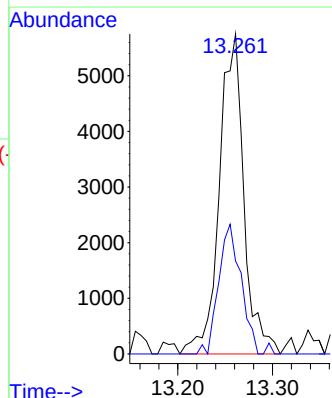
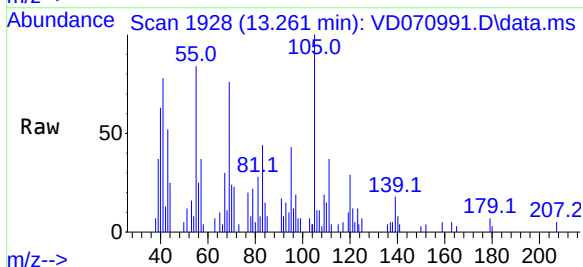
Instrument :
MSVOA_D
ClientSampleId :

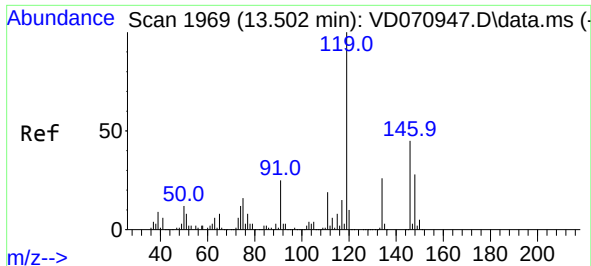
Tgt Ion: 75 Resp: 70415
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 1.1 34.5 51.7#



#84
1,2,4-Trimethylbenzene
Concen: 2.475 ug/l
RT: 13.261 min Scan# 1928
Delta R.T. 0.006 min
Lab File: VD070991.D
Acq: 11 Nov 2021 15:00

Tgt Ion:105 Resp: 10371
Ion Ratio Lower Upper
105 100
120 36.7 22.9 68.7

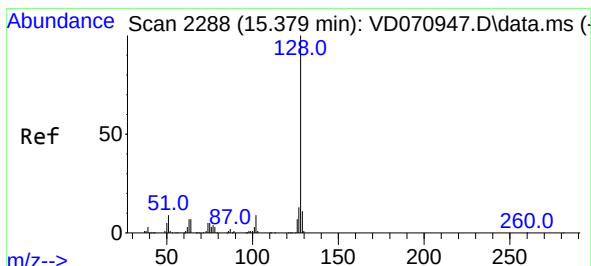
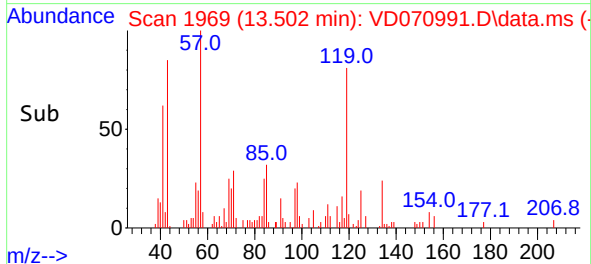
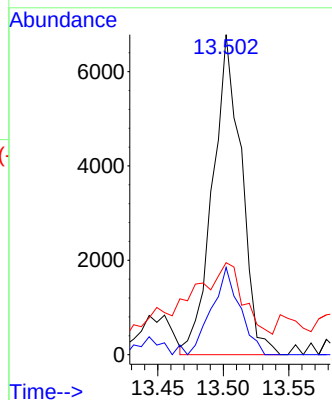
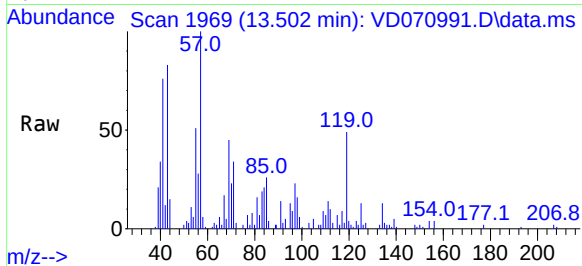




#86
p-Isopropyltoluene
Concen: 2.321 ug/l
RT: 13.502 min Scan# 1969
Delta R.T. 0.000 min
Lab File: VD070991.D
Acq: 11 Nov 2021 15:00

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion:119 Resp: 10324
Ion Ratio Lower Upper
119 100
134 26.6 13.0 38.9
91 46.0 11.4 34.2#



#95
Naphthalene
Concen: 4.299 ug/l
RT: 15.384 min Scan# 2289
Delta R.T. 0.005 min
Lab File: VD070991.D
Acq: 11 Nov 2021 15:00

Tgt Ion:128 Resp: 9879
Ion Ratio Lower Upper
128 100
127 34.4 10.7 16.1#
129 17.1 8.7 13.1#

