

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD111121\
 Data File : VD071015.D
 Acq On : 12 Nov 2021 06:06
 Operator : VA/SY
 Sample : M4635-03
 Misc : 7.20G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Nov 12 08:18:13 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)

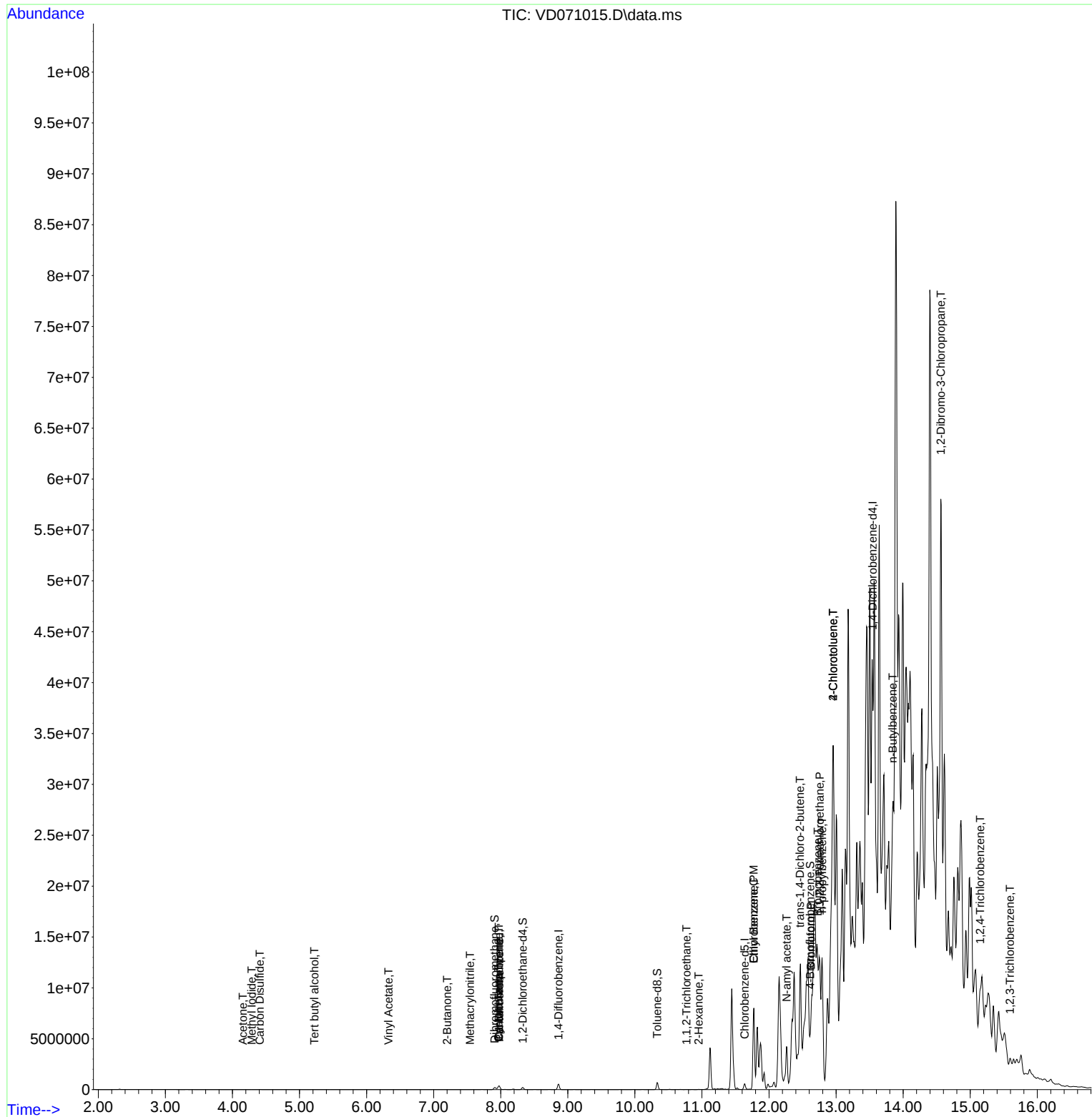
Internal Standards						
1) Pentafluorobenzene	7.979	168	244245	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	439865	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	290843	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.544	152	386770	50.000	ug/l	#-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	161588	62.137	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 124.280%			
35) Dibromofluoromethane	7.909	113	145474	58.610	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 117.220%			
50) Toluene-d8	10.332	98	446480	45.932	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 91.860%			
62) 4-Bromofluorobenzene	12.614	95	326460	93.276	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 186.560%#			
Target Compounds						Qvalue
10) Methyl Iodide	4.285	142	68	6.043	ug/l #	40
11) Tert butyl alcohol	5.220	59	222	1.168	ug/l #	71
16) Acetone	4.156	43	2117	22.572	ug/l #	74
17) Carbon Disulfide	4.409	76	14197	1.896	ug/l #	94
20) Methylene Chloride	4.956	84	850	Below Cal	#	80
23) Vinyl Acetate	6.326	43	75	20.996	ug/l #	72
25) 2-Butanone	7.203	43	372	20.744	ug/l #	45
31) Cyclohexane	7.967	56	17471	3.267	ug/l #	68
36) 1,1-Dichloropropene	7.973	75	22008	5.604	ug/l #	50
38) Carbon Tetrachloride	7.973	117	26611	7.358	ug/l #	19
41) Methacrylonitrile	7.544	41	278	3.702	ug/l #	12
55) 1,1,2-Trichloroethane	10.767	97	2857	1.460	ug/l #	16
59) 2-Hexanone	10.950	43	7431	20.774	ug/l #	26
65) Chlorobenzene	11.773	112	143695	27.691	ug/l #	43
67) Ethyl Benzene	11.773	91	29185	2.970	ug/l #	46
71) Bromoform	12.626	173	974	1.014	ug/l #	1
74) N-amyl acetate	12.261	43	974104	122.370	ug/l #	51
75) 1,1,2,2-Tetrachloroethane	12.755	83	271289	56.566	ug/l #	75
77) Bromobenzene	12.726	156	6330	1.063	ug/l #	1
78) n-propylbenzene	12.791	91	61631	1.785	ug/l #	56
79) 2-Chlorotoluene	12.955	91	336544	17.096	ug/l	87
81) trans-1,4-Dichloro-2-b...	12.461	75	2130	4.514	ug/l #	1
82) 4-Chlorotoluene	12.955	91	336544	16.565	ug/l	90
89) n-Butylbenzene	13.844	91	88657	3.698	ug/l #	44
92) 1,2-Dibromo-3-Chloropr...	14.561	75	16463	20.930	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.149	180	25468	3.947	ug/l #	31
96) 1,2,3-Trichlorobenzene	15.590	180	35785	6.595	ug/l #	13

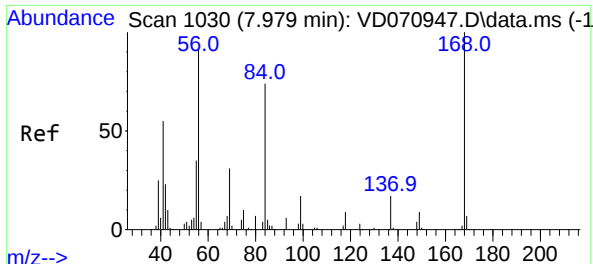
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Nov 10 03:55:51 2021
Response via : Initial Calibration

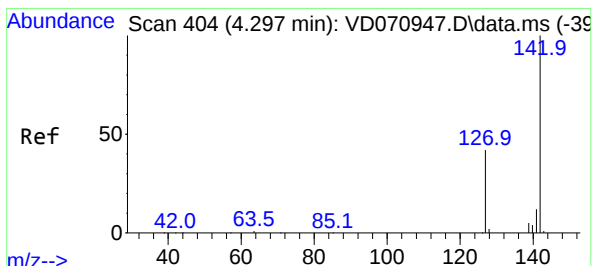
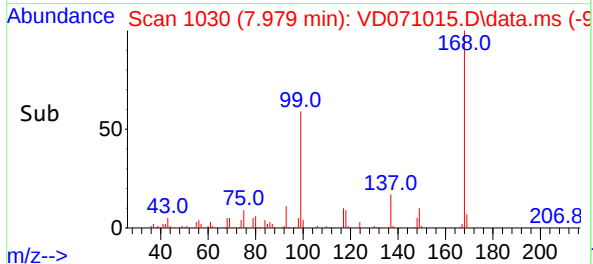
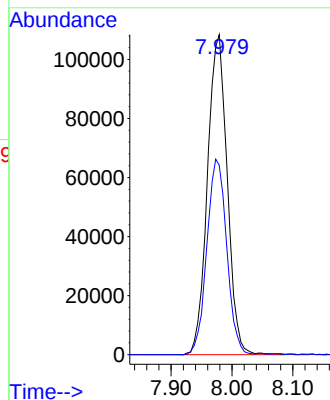
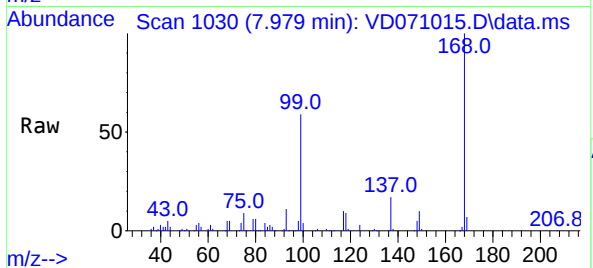




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 10
Delta R.T. 0.000 min
Lab File: VD071015.D
Acq: 12 Nov 2021 06:06

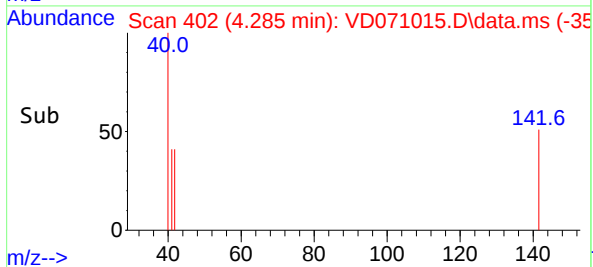
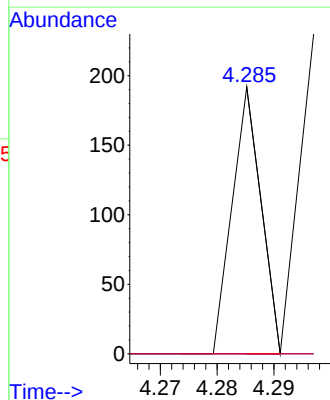
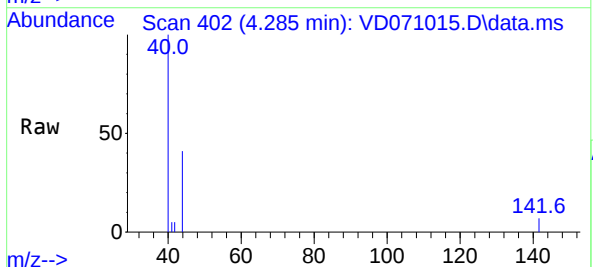
Instrument :
MSVOA_D
ClientSampleId :

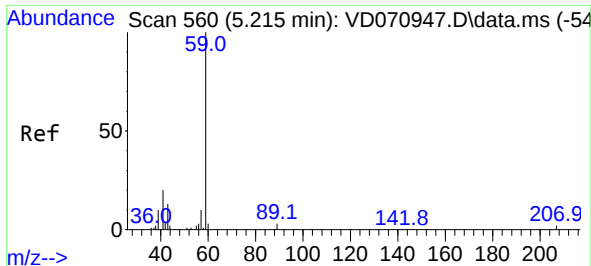
Tgt Ion:168 Resp: 244245
Ion Ratio Lower Upper
168 100
99 59.2 46.6 69.8



#10
Methyl Iodide
Concen: 6.043 ug/l
RT: 4.285 min Scan# 402
Delta R.T. -0.012 min
Lab File: VD071015.D
Acq: 12 Nov 2021 06:06

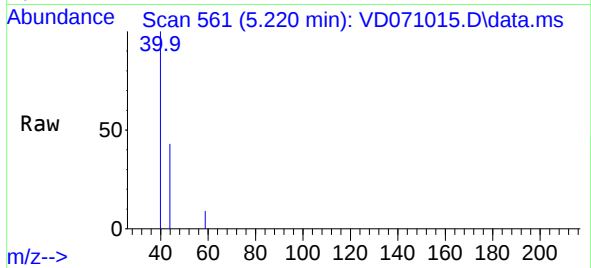
Tgt Ion:142 Resp: 68
Ion Ratio Lower Upper
142 100
127 0.0 35.0 52.4#
141 0.0 12.0 18.0#



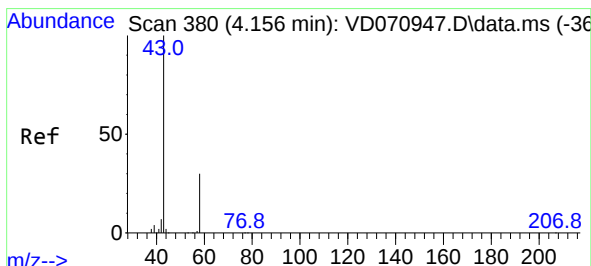
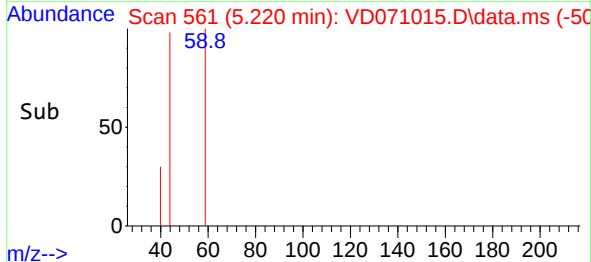
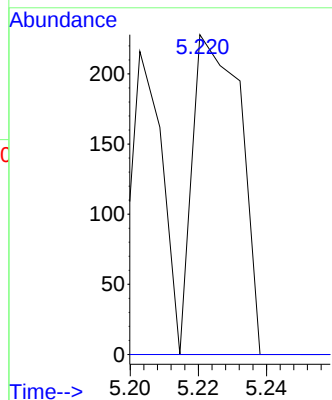


#11
Tert butyl alcohol
Concen: 1.168 ug/l
RT: 5.220 min Scan# 50
Delta R.T. 0.005 min
Lab File: VD071015.D
Acq: 12 Nov 2021 06:06

Instrument :
MSVOA_D
ClientSampleId :

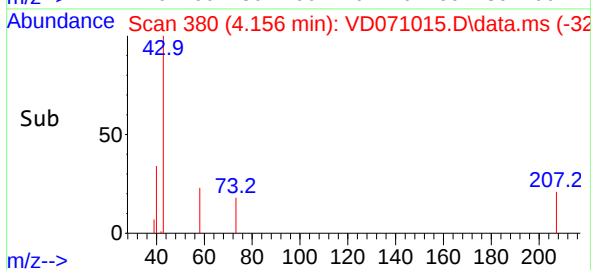
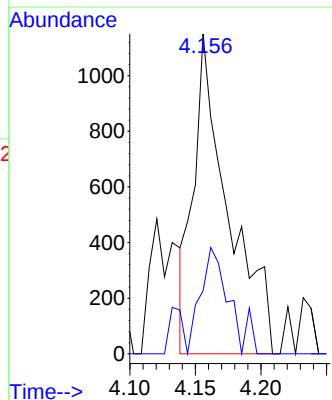
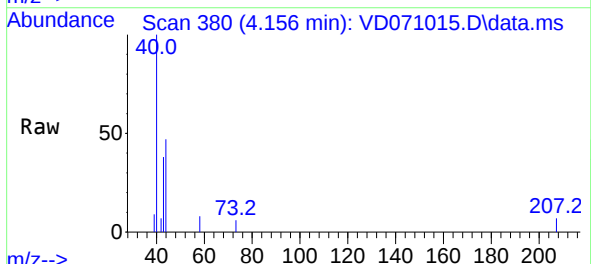


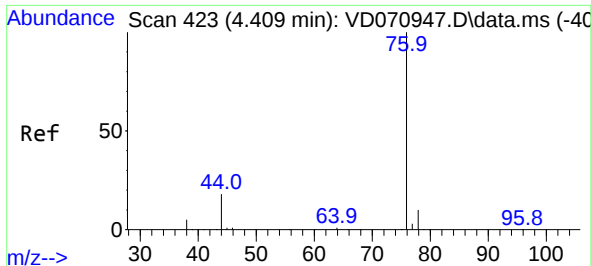
Tgt Ion: 59 Resp: 222
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



#16
Acetone
Concen: 22.572 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.000 min
Lab File: VD071015.D
Acq: 12 Nov 2021 06:06

Tgt Ion: 43 Resp: 2117
Ion Ratio Lower Upper
43 100
58 19.7 27.8 41.8#

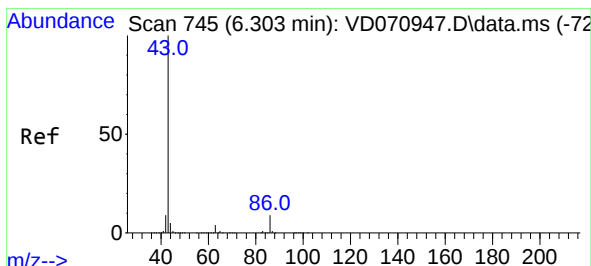
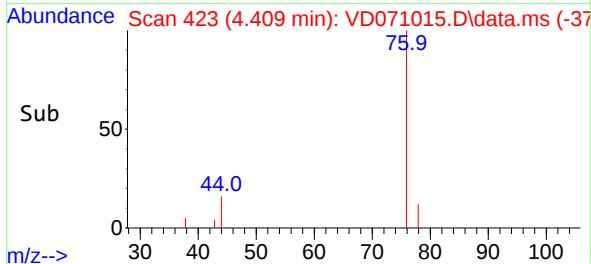
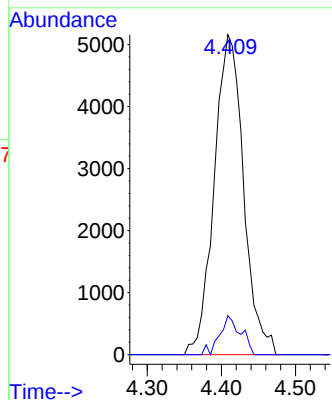
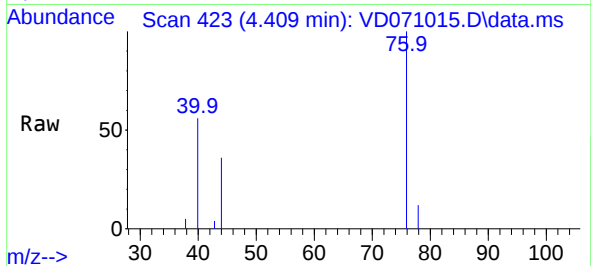




#17
Carbon Disulfide
Concen: 1.896 ug/l
RT: 4.409 min Scan# 41
Delta R.T. -0.000 min
Lab File: VD071015.D
Acq: 12 Nov 2021 06:06

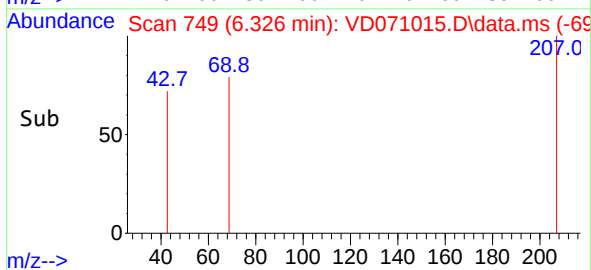
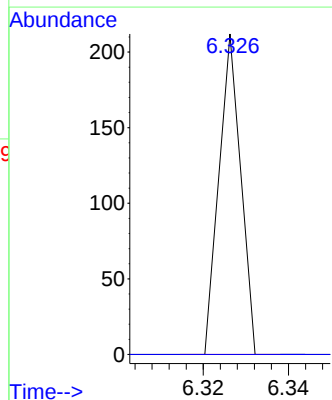
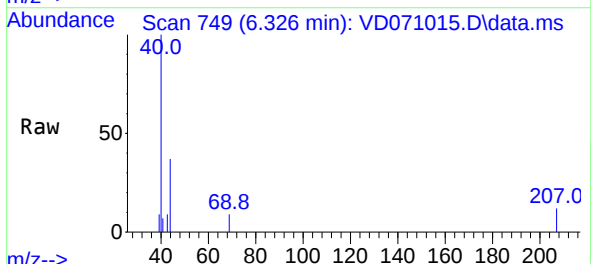
Instrument :
MSVOA_D
ClientSampleId :

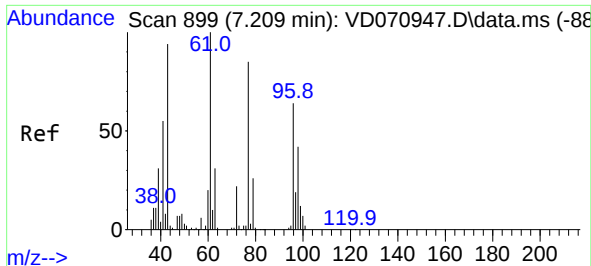
Tgt Ion: 76 Resp: 14197
Ion Ratio Lower Upper
76 100
78 12.2 7.8 11.8#



#23
Vinyl Acetate
Concen: 20.996 ug/l
RT: 6.326 min Scan# 749
Delta R.T. 0.023 min
Lab File: VD071015.D
Acq: 12 Nov 2021 06:06

Tgt Ion: 43 Resp: 75
Ion Ratio Lower Upper
43 100
86 0.0 8.2 12.4#

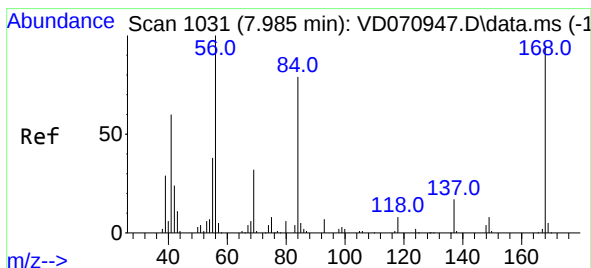
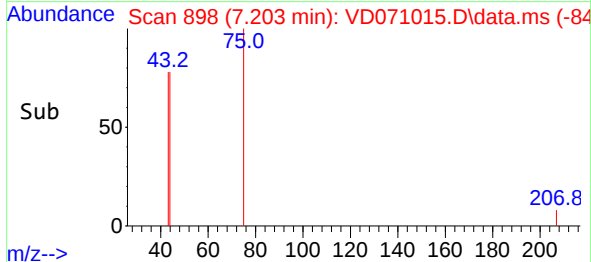
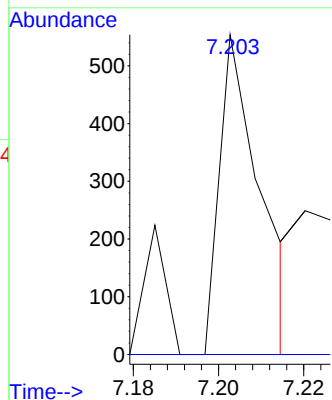
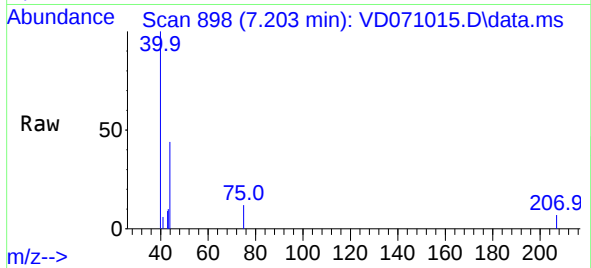




#25
2-Butanone
Concen: 20.744 ug/l
RT: 7.203 min Scan# 89
Delta R.T. -0.006 min
Lab File: VD071015.D
Acq: 12 Nov 2021 06:06

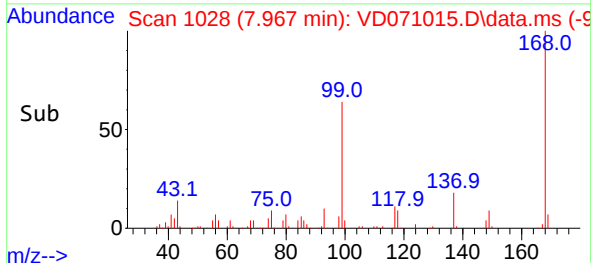
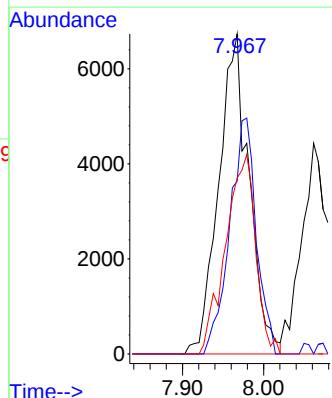
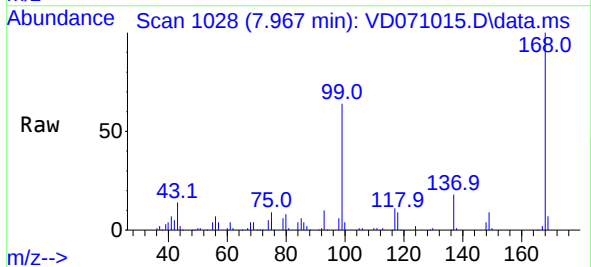
Instrument :
MSVOA_D
ClientSampleId :

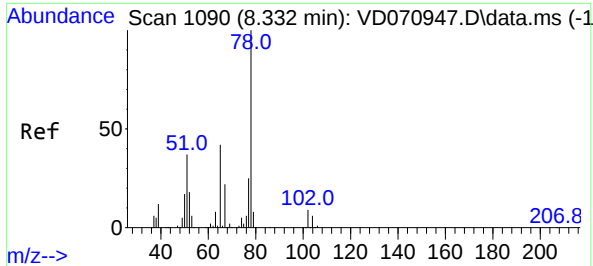
Tgt Ion: 43 Resp: 372
Ion Ratio Lower Upper
43 100
72 0.0 23.8 35.6#



#31
Cyclohexane
Concen: 3.267 ug/l
RT: 7.967 min Scan# 1028
Delta R.T. -0.018 min
Lab File: VD071015.D
Acq: 12 Nov 2021 06:06

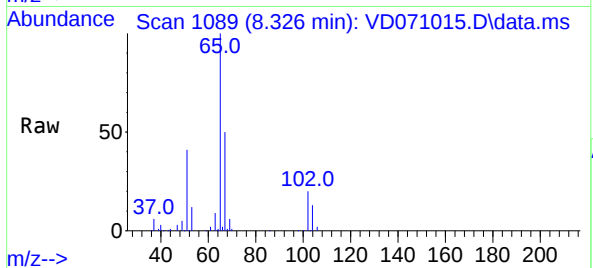
Tgt Ion: 56 Resp: 17471
Ion Ratio Lower Upper
56 100
69 54.0 25.9 38.9#
84 55.0 64.3 96.5#



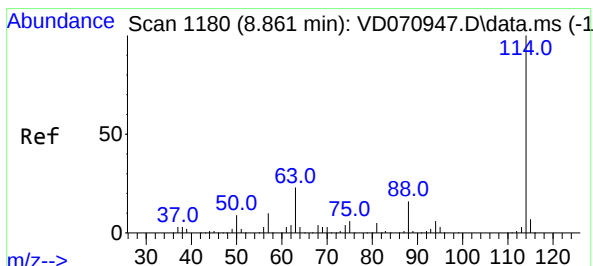
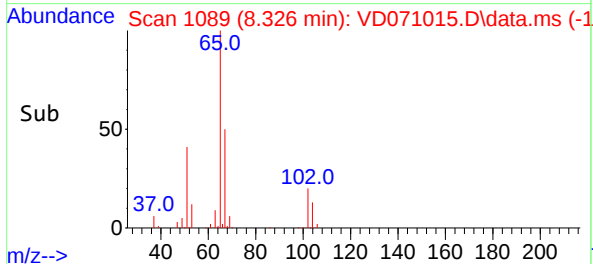
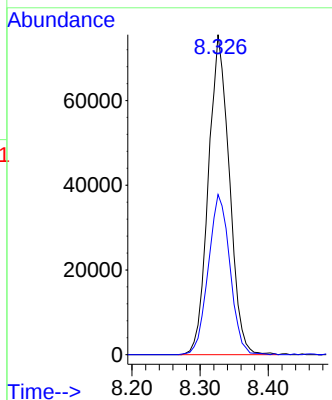


#33
 1,2-Dichloroethane-d4
 Concen: 62.137 ug/l
 RT: 8.326 min Scan# 1090
 Delta R.T. -0.006 min
 Lab File: VD071015.D
 Acq: 12 Nov 2021 06:06

Instrument :
 MSVOA_D
 ClientSampleId :

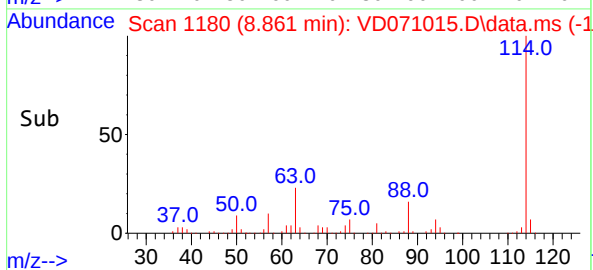
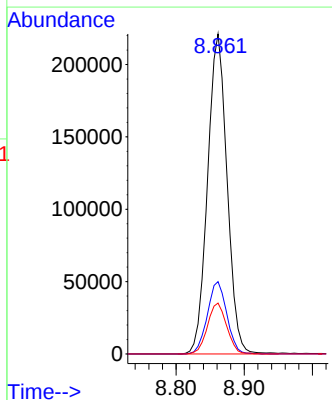
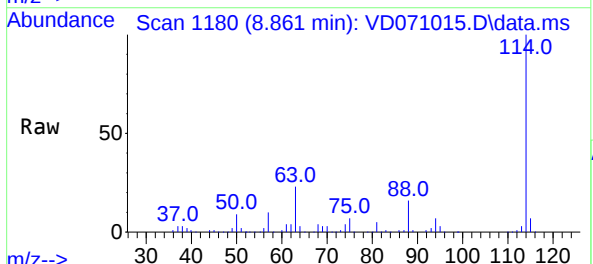


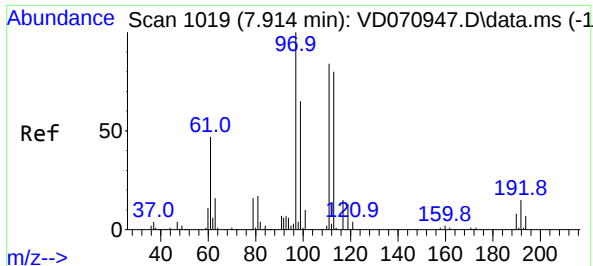
Tgt Ion: 65 Resp: 161588
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 112.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.861 min Scan# 1180
 Delta R.T. 0.000 min
 Lab File: VD071015.D
 Acq: 12 Nov 2021 06:06

Tgt Ion: 114 Resp: 439865
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 41.8
 88 15.9 0.0 32.8





#35

Dibromofluoromethane

Concen: 58.610 ug/l

RT: 7.909 min Scan# 1018

Delta R.T. -0.005 min

Lab File: VD071015.D

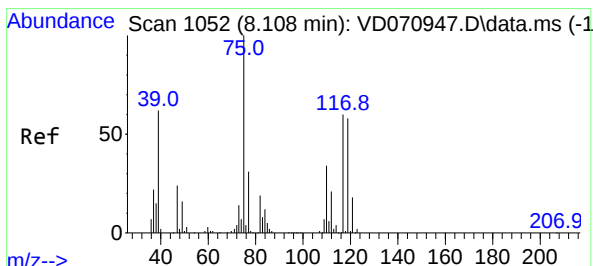
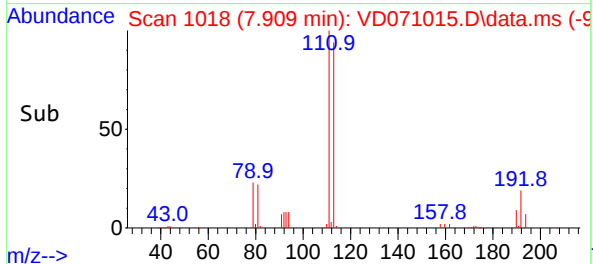
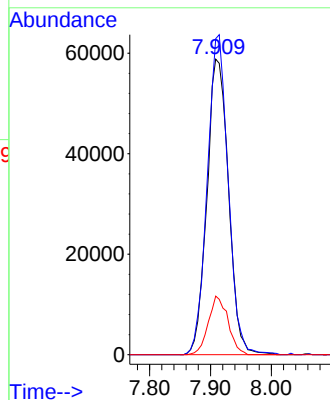
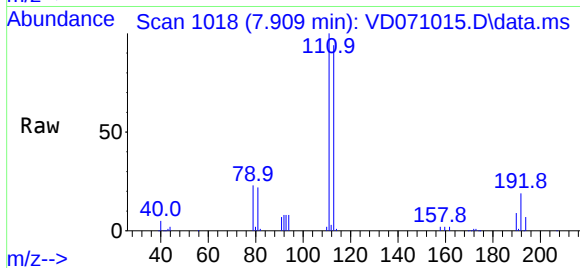
Acq: 12 Nov 2021 06:06

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:	113	Resp:	145474
Ion	Ratio	Lower	Upper
113	100		
111	104.6	82.0	123.0
192	18.0	15.2	22.8



#36

1,1-Dichloropropene

Concen: 5.604 ug/l

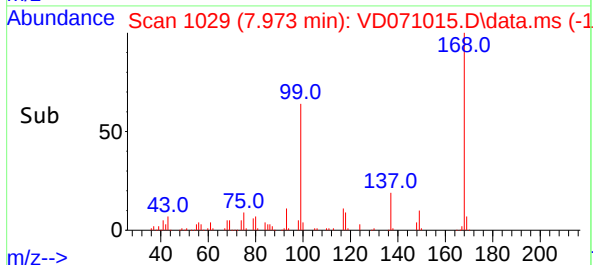
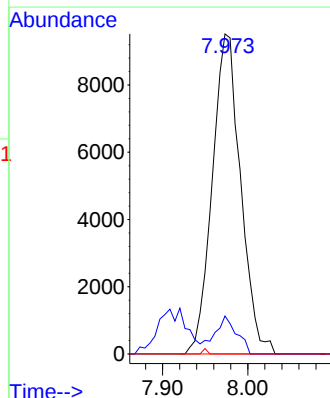
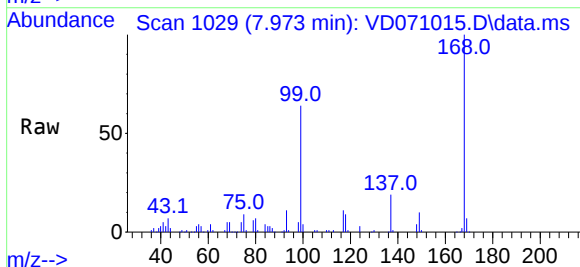
RT: 7.973 min Scan# 1029

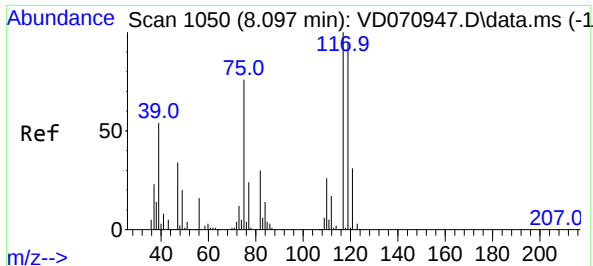
Delta R.T. -0.135 min

Lab File: VD071015.D

Acq: 12 Nov 2021 06:06

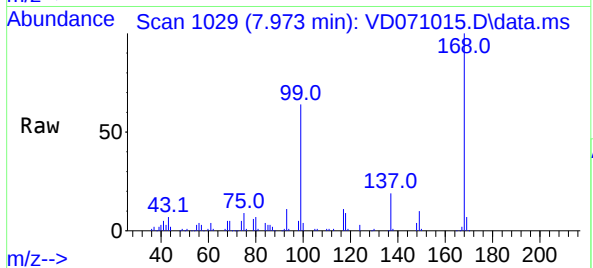
Tgt Ion:	75	Resp:	22008
Ion	Ratio	Lower	Upper
75	100		
110	9.3	17.8	53.4#
77	0.0	24.8	37.2#



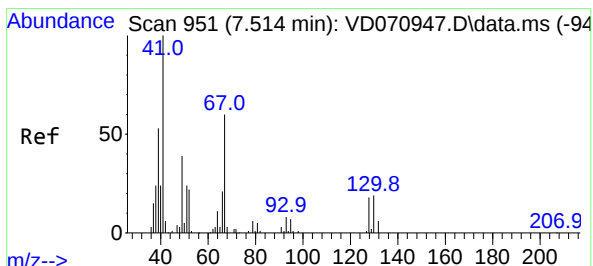
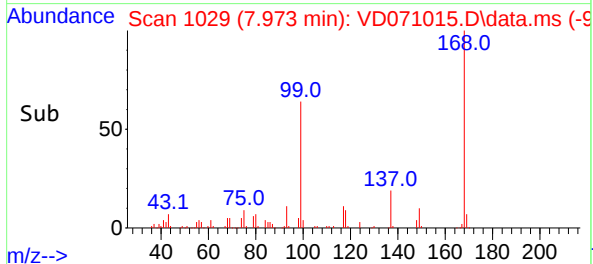
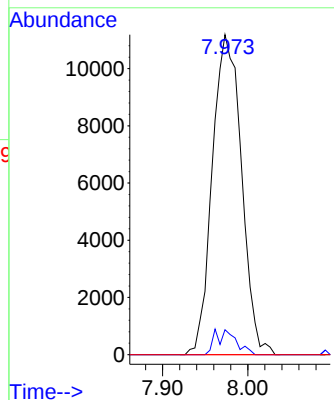


#38
Carbon Tetrachloride
Concen: 7.358 ug/l
RT: 7.973 min Scan# 1050
Delta R.T. -0.124 min
Lab File: VD071015.D
Acq: 12 Nov 2021 06:06

Instrument :
MSVOA_D
ClientSampleId :

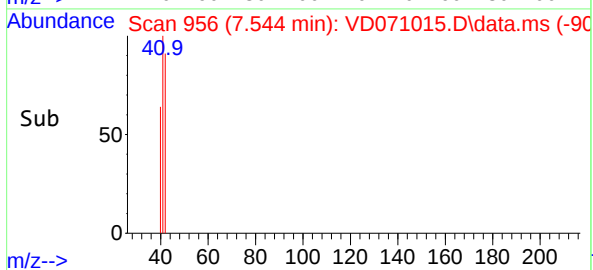
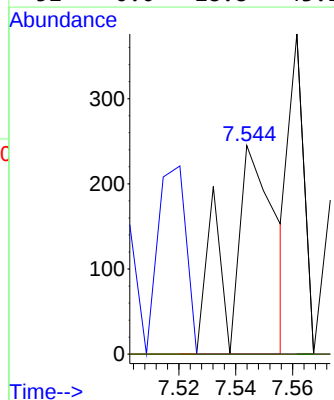
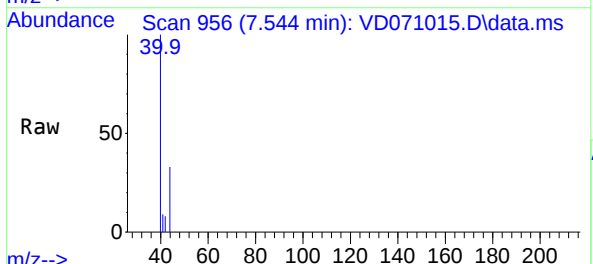


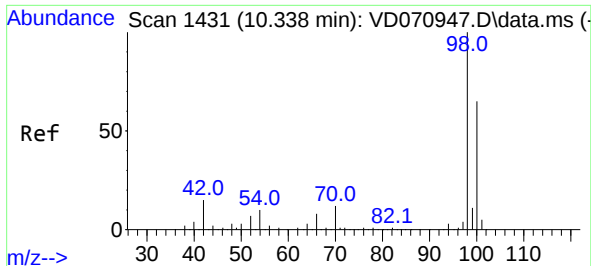
Tgt Ion:117 Resp: 26611
Ion Ratio Lower Upper
117 100
119 7.8 75.8 113.6#
121 0.0 23.6 35.4#



#41
Methacrylonitrile
Concen: 3.702 ug/l
RT: 7.544 min Scan# 956
Delta R.T. 0.030 min
Lab File: VD071015.D
Acq: 12 Nov 2021 06:06

Tgt Ion: 41 Resp: 278
Ion Ratio Lower Upper
41 100
39 0.0 60.2 90.4#
67 0.0 74.8 112.2#
52 0.0 28.8 43.2#

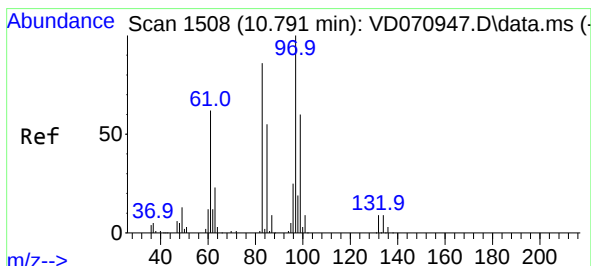
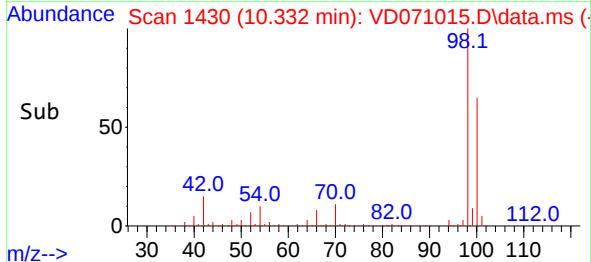
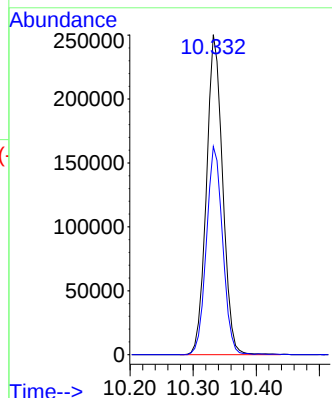
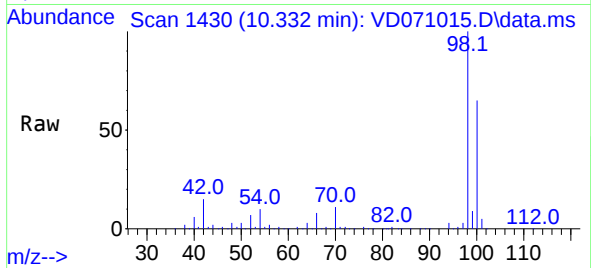




#50
Toluene-d8
Concen: 45.932 ug/l
RT: 10.332 min Scan# 14
Delta R.T. -0.006 min
Lab File: VD071015.D
Acq: 12 Nov 2021 06:06

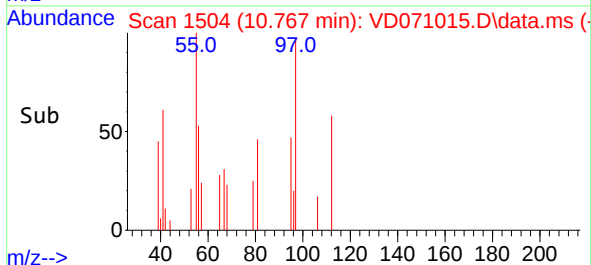
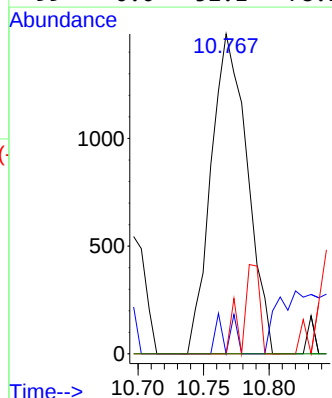
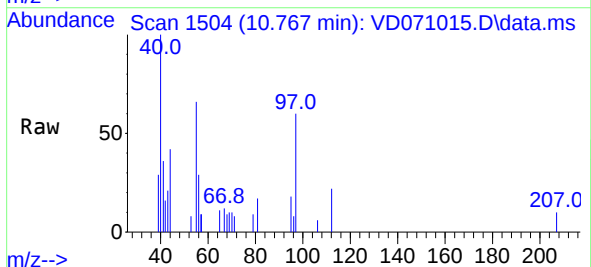
Instrument :
MSVOA_D
ClientSampleId :

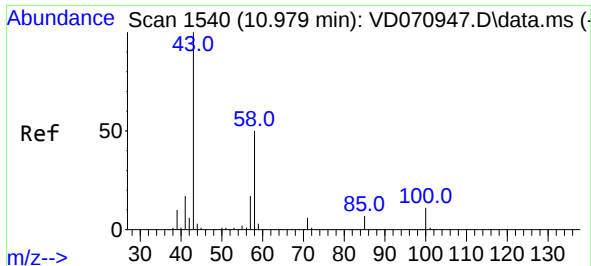
Tgt Ion: 98 Resp: 446480
Ion Ratio Lower Upper
98 100
100 65.1 51.8 77.6



#55
1,1,2-Trichloroethane
Concen: 1.460 ug/l
RT: 10.767 min Scan# 1504
Delta R.T. -0.024 min
Lab File: VD071015.D
Acq: 12 Nov 2021 06:06

Tgt Ion: 97 Resp: 2857
Ion Ratio Lower Upper
97 100
83 0.0 65.2 97.8#
85 0.0 43.4 65.0#
99 0.0 52.1 78.1#

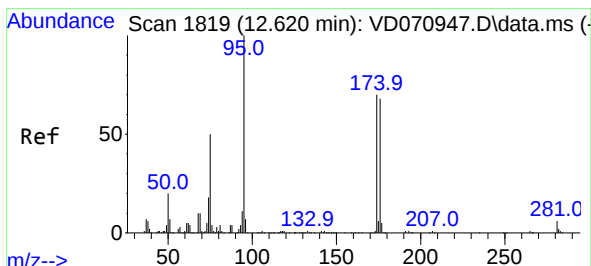
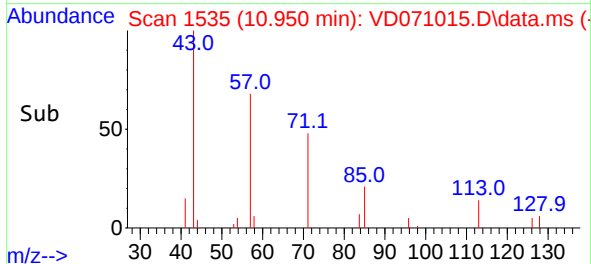
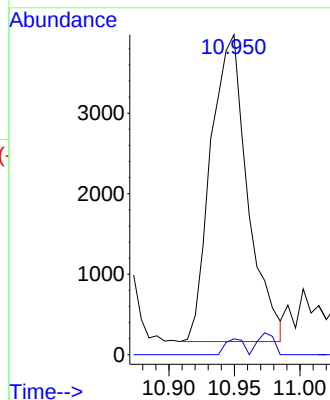
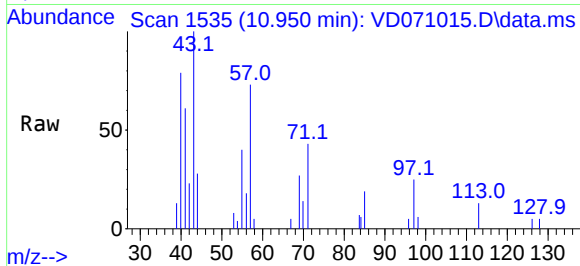




#59
2-Hexanone
Concen: 20.774 ug/l
RT: 10.950 min Scan# 1535
Delta R.T. -0.029 min
Lab File: VD071015.D
Acq: 12 Nov 2021 06:06

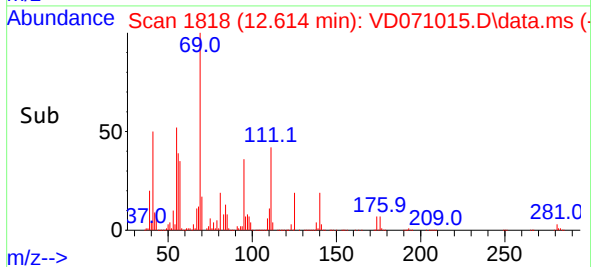
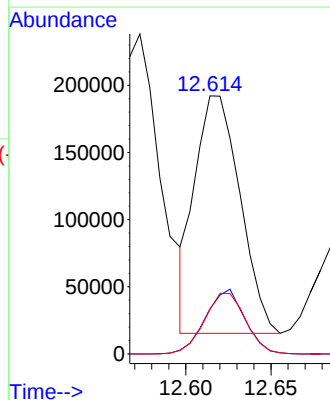
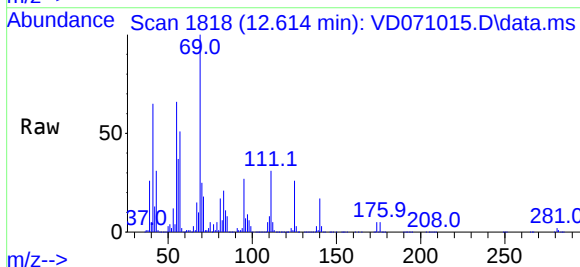
Instrument :
MSVOA_D
ClientSampleId :

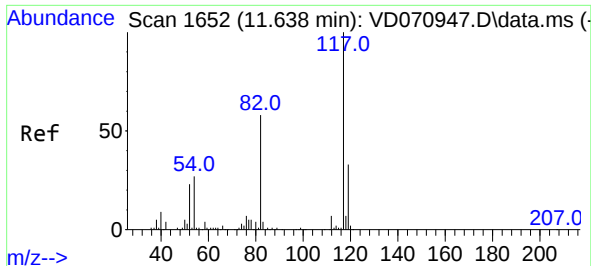
Tgt Ion: 43 Resp: 7431
Ion Ratio Lower Upper
43 100
58 2.5 28.7 86.1#



#62
4-Bromofluorobenzene
Concen: 93.276 ug/l
RT: 12.614 min Scan# 1818
Delta R.T. -0.006 min
Lab File: VD071015.D
Acq: 12 Nov 2021 06:06

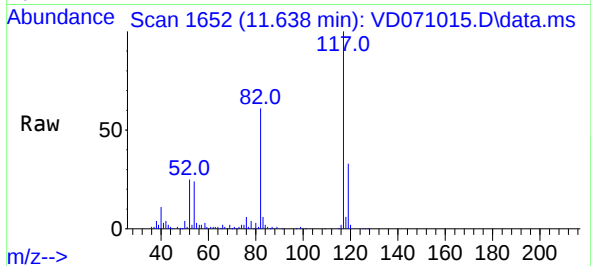
Tgt Ion: 95 Resp: 326460
Ion Ratio Lower Upper
95 100
174 23.8 0.0 159.4
176 23.5 0.0 154.0



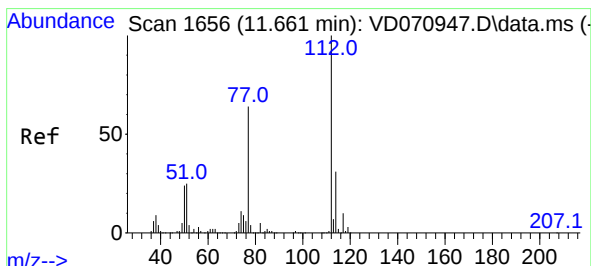
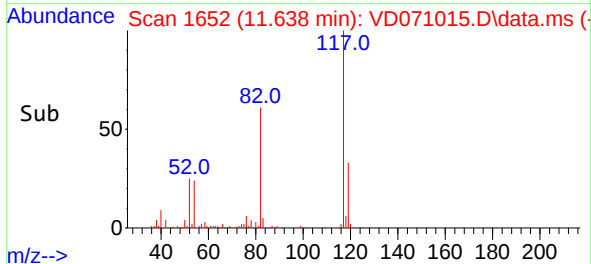
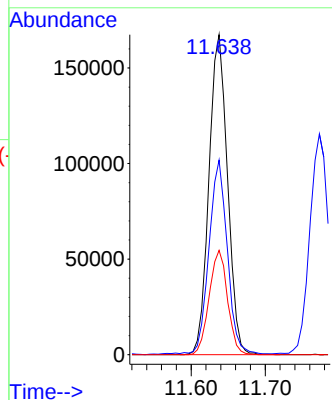


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD071015.D
Acq: 12 Nov 2021 06:06

Instrument :
MSVOA_D
ClientSampleId :

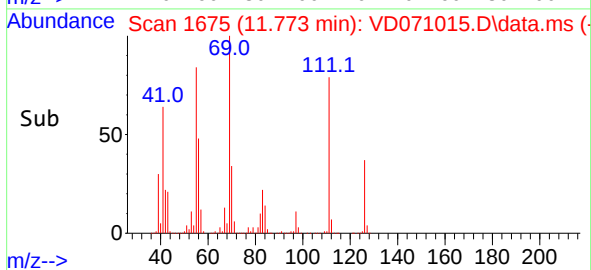
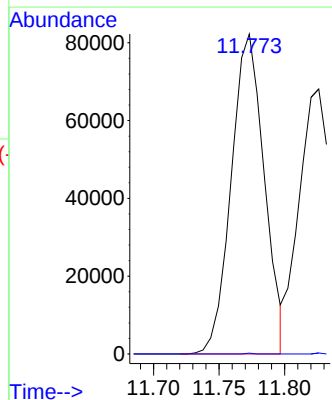
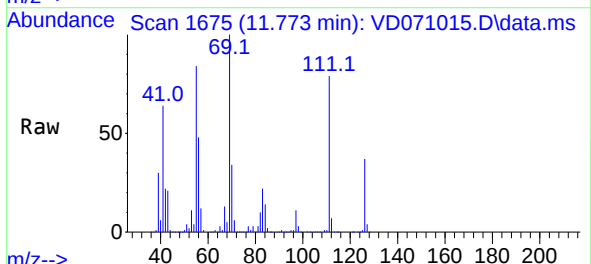


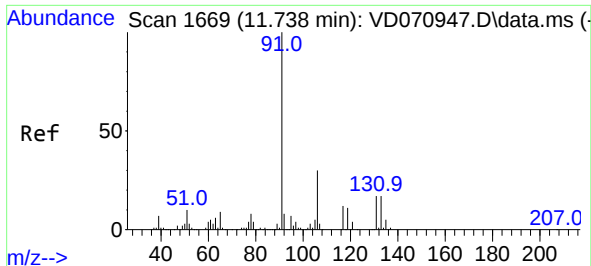
Tgt Ion:117 Resp: 290843
Ion Ratio Lower Upper
117 100
82 60.5 44.7 67.1
119 32.6 26.2 39.4



#65
Chlorobenzene
Concen: 27.691 ug/l
RT: 11.773 min Scan# 1675
Delta R.T. 0.112 min
Lab File: VD071015.D
Acq: 12 Nov 2021 06:06

Tgt Ion:112 Resp: 143695
Ion Ratio Lower Upper
112 100
114 0.2 26.0 39.0#

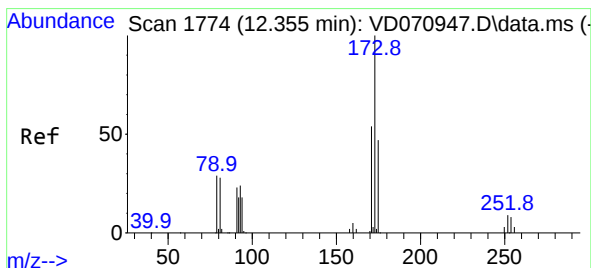
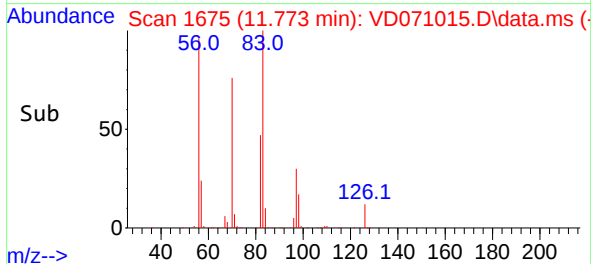
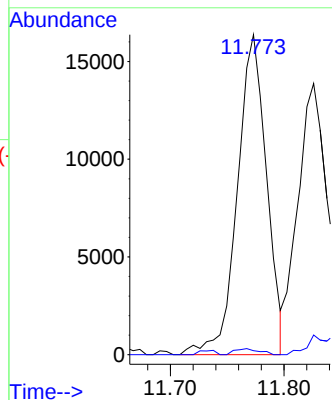
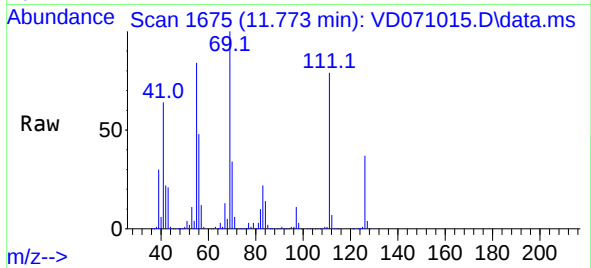




#67
Ethyl Benzene
Concen: 2.970 ug/l
RT: 11.773 min Scan# 11
Delta R.T. 0.035 min
Lab File: VD071015.D
Acq: 12 Nov 2021 06:06

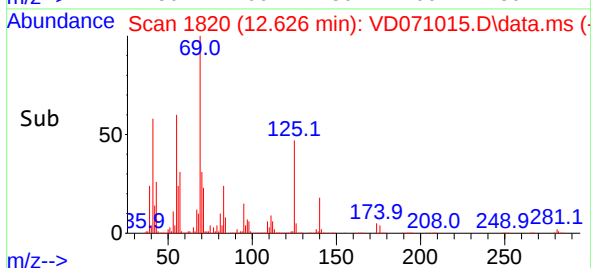
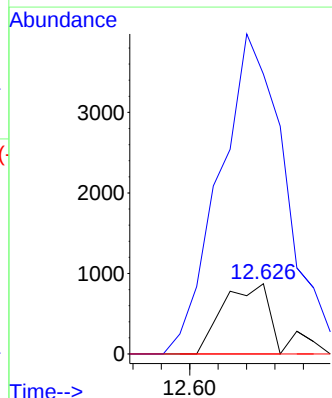
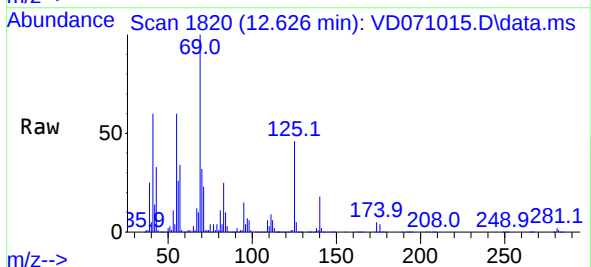
Instrument :
MSVOA_D
ClientSampleId :

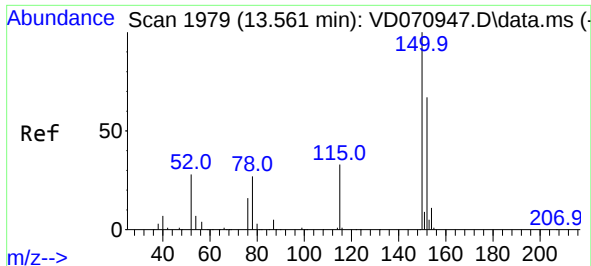
Tgt Ion: 91 Resp: 29185
Ion Ratio Lower Upper
91 100
106 1.2 24.6 36.8#



#71
Bromoform
Concen: 1.014 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.271 min
Lab File: VD071015.D
Acq: 12 Nov 2021 06:06

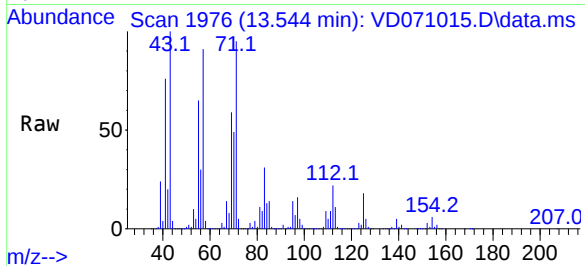
Tgt Ion: 173 Resp: 974
Ion Ratio Lower Upper
173 100
175 579.3 24.1 72.2#
254 0.0 0.1 0.1#



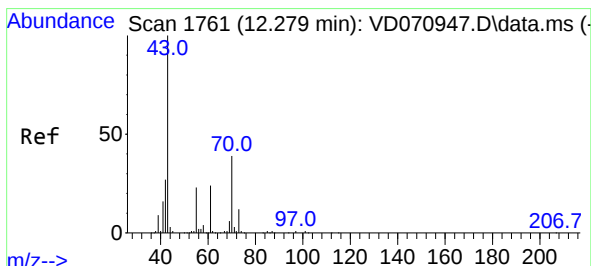
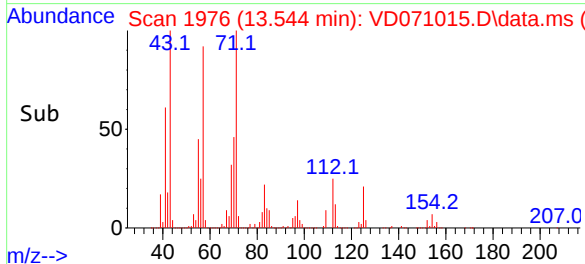
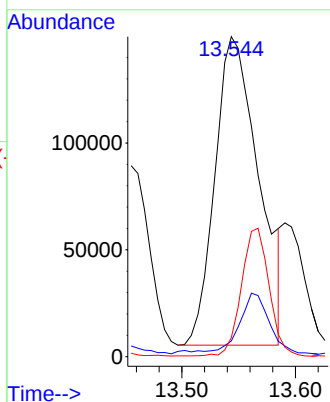


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.544 min Scan# 1979
Delta R.T. -0.017 min
Lab File: VD071015.D
Acq: 12 Nov 2021 06:06

Instrument :
MSVOA_D
ClientSampleId :

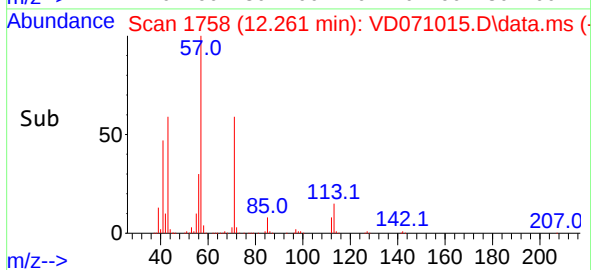
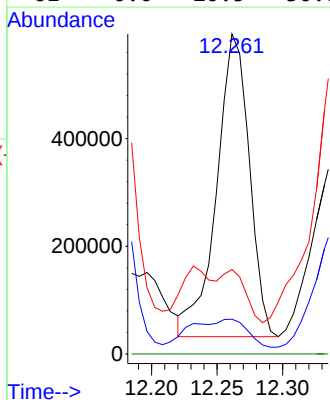
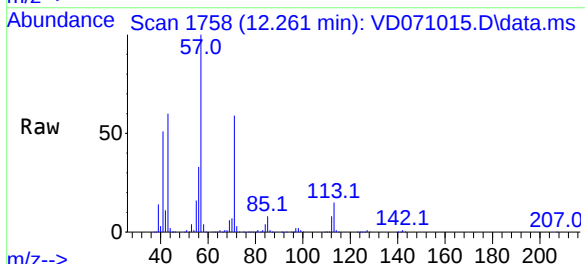


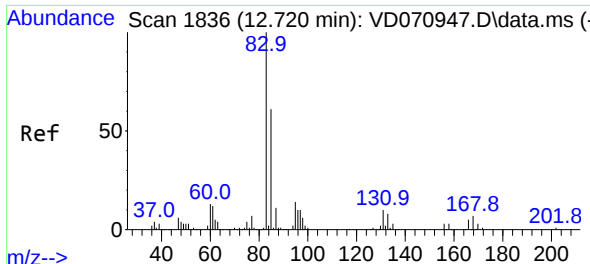
Tgt Ion:152 Resp: 386770
Ion Ratio Lower Upper
152 100
115 0.0 29.8 89.3#
150 0.0 0.0 349.2



#74
N-ethyl acetate
Concen: 122.370 ug/l
RT: 12.261 min Scan# 1758
Delta R.T. -0.018 min
Lab File: VD071015.D
Acq: 12 Nov 2021 06:06

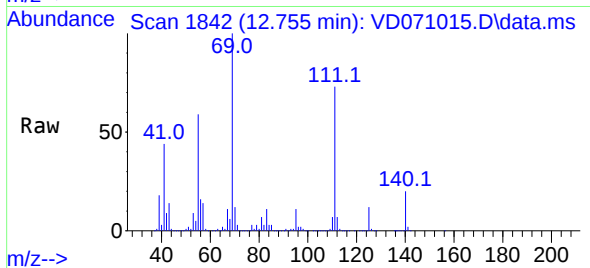
Tgt Ion: 43 Resp: 974104
Ion Ratio Lower Upper
43 100
70 16.0 36.6 55.0#
55 0.0 22.5 33.7#
61 0.0 20.5 30.7#



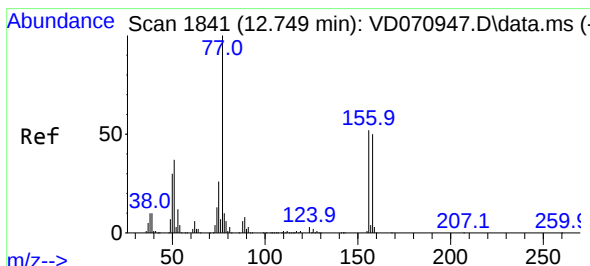
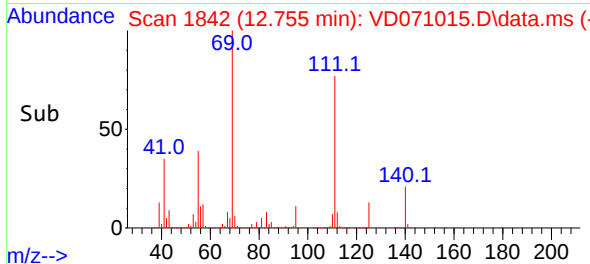
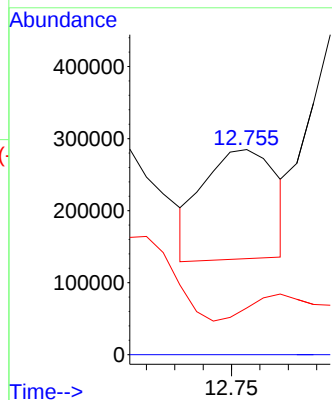


#75
1,1,2,2-Tetrachloroethane
Concen: 56.566 ug/l
RT: 12.755 min Scan# 1842
Delta R.T. 0.035 min
Lab File: VD071015.D
Acq: 12 Nov 2021 06:06

Instrument :
MSVOA_D
ClientSampleId :

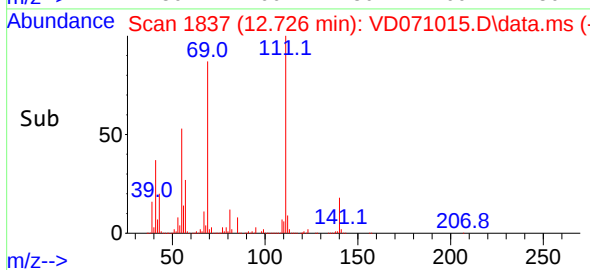
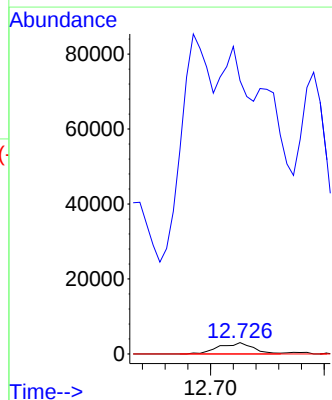
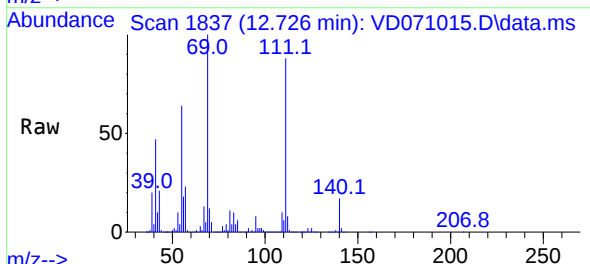


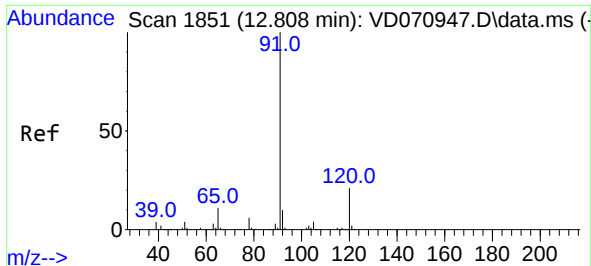
Tgt Ion: 83 Resp: 271289
Ion Ratio Lower Upper
83 100
131 0.0 4.9 14.7#
85 83.1 32.0 96.2



#77
Bromobenzene
Concen: 1.063 ug/l
RT: 12.726 min Scan# 1837
Delta R.T. -0.023 min
Lab File: VD071015.D
Acq: 12 Nov 2021 06:06

Tgt Ion: 156 Resp: 6330
Ion Ratio Lower Upper
156 100
77 0.0 96.6 289.8#
158 0.0 49.1 147.4#

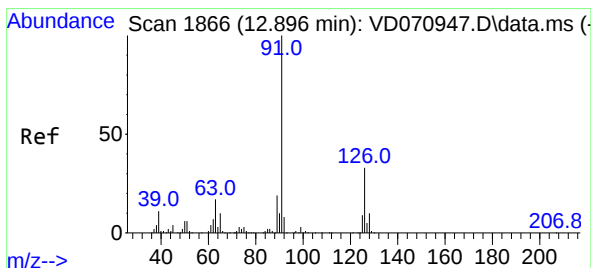
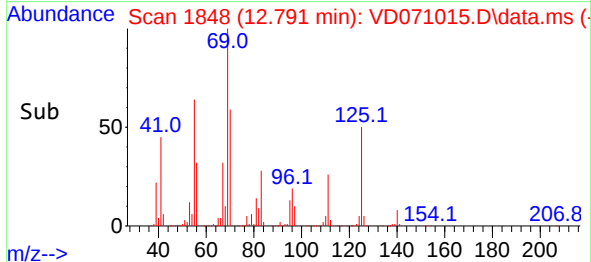
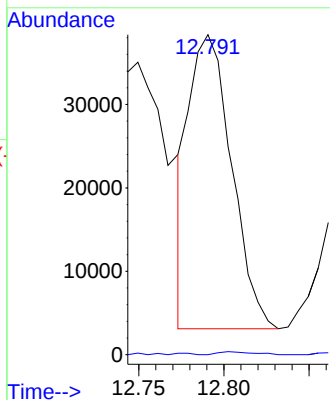
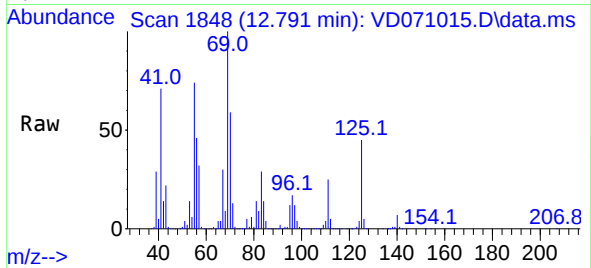




#78
n-propylbenzene
Concen: 1.785 ug/l
RT: 12.791 min Scan# 1848
Delta R.T. -0.017 min
Lab File: VD071015.D
Acq: 12 Nov 2021 06:06

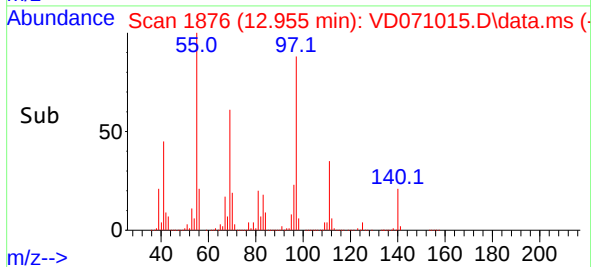
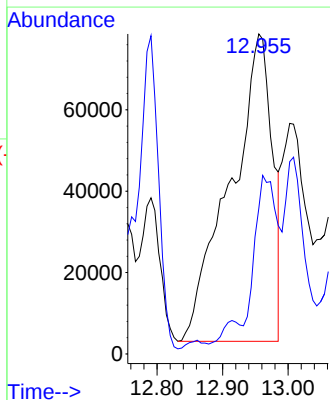
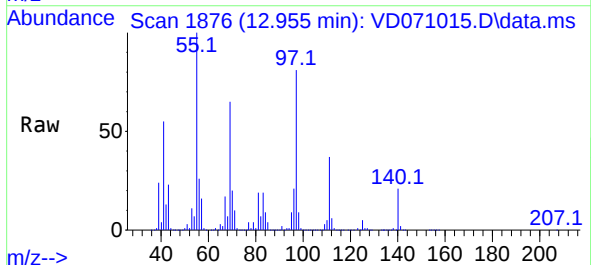
Instrument :
MSVOA_D
ClientSampleId :

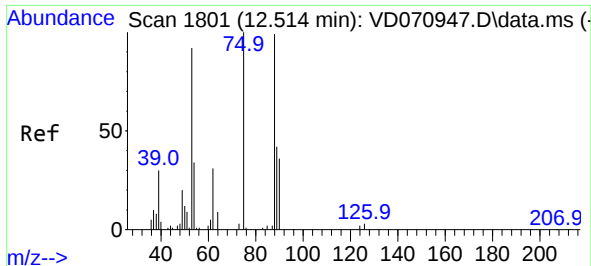
Tgt Ion: 91 Resp: 61631
Ion Ratio Lower Upper
91 100
120 0.8 10.9 32.9#



#79
2-Chlorotoluene
Concen: 17.096 ug/l
RT: 12.955 min Scan# 1876
Delta R.T. 0.059 min
Lab File: VD071015.D
Acq: 12 Nov 2021 06:06

Tgt Ion: 91 Resp: 336544
Ion Ratio Lower Upper
91 100
126 25.9 16.6 49.7

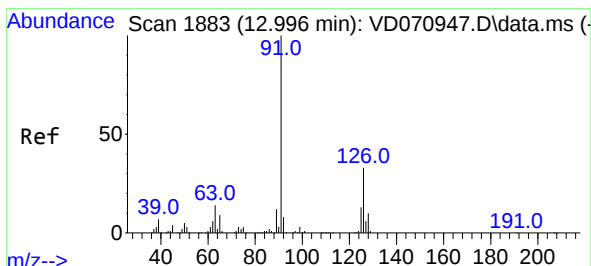
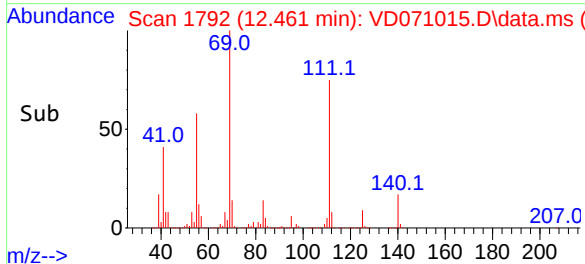
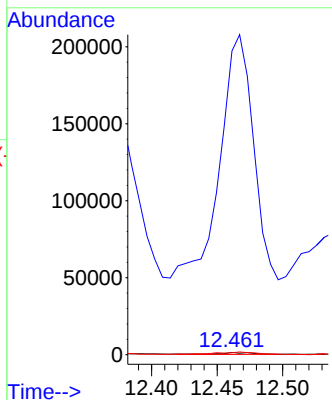
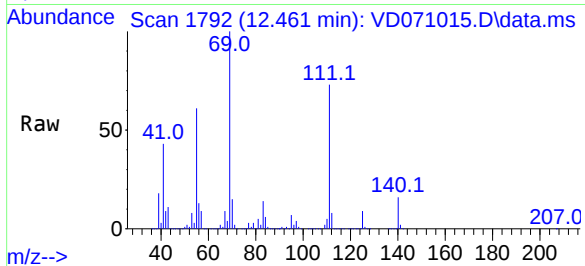




#81
trans-1,4-Dichloro-2-butene
Concen: 4.514 ug/l
RT: 12.461 min Scan# 11
Delta R.T. -0.053 min
Lab File: VD071015.D
Acq: 12 Nov 2021 06:06

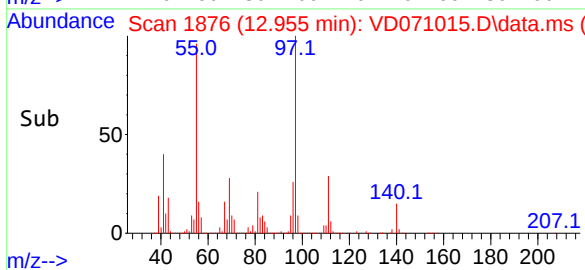
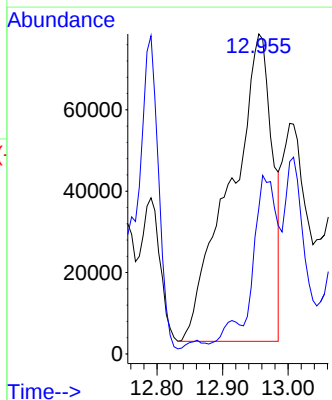
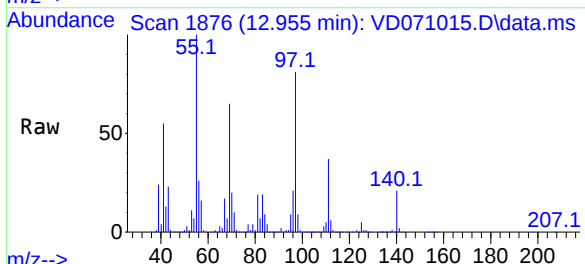
Instrument :
MSVOA_D
ClientSampleId :

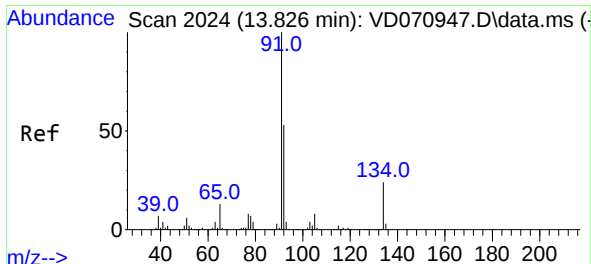
Tgt Ion: 75 Resp: 2130
Ion Ratio Lower Upper
75 100
53 13054.5 62.6 94.0#
89 211.0 34.5 51.7#



#82
4-Chlorotoluene
Concen: 16.565 ug/l
RT: 12.955 min Scan# 1876
Delta R.T. -0.041 min
Lab File: VD071015.D
Acq: 12 Nov 2021 06:06

Tgt Ion: 91 Resp: 336544
Ion Ratio Lower Upper
91 100
126 26.8 16.4 49.1

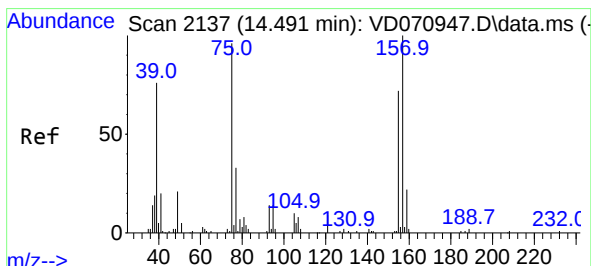
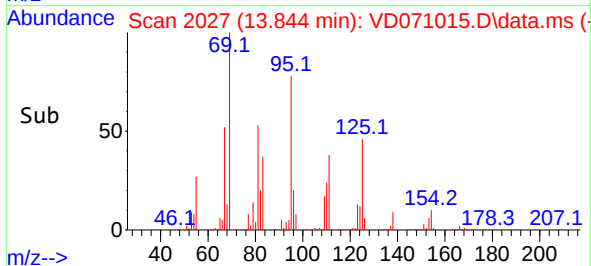
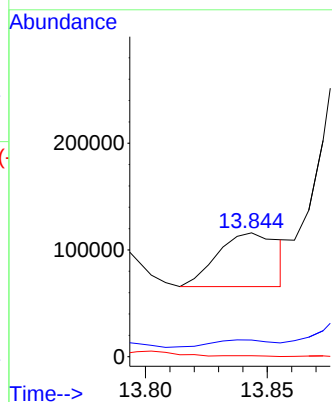
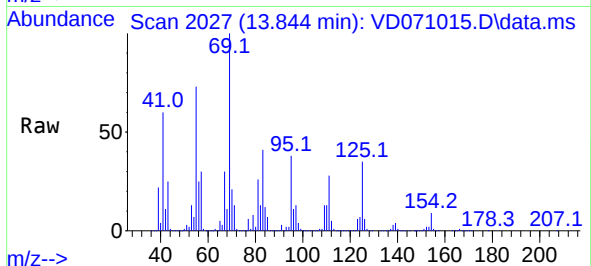




#89
n-Butylbenzene
Concen: 3.698 ug/l
RT: 13.844 min Scan# 2027
Delta R.T. 0.018 min
Lab File: VD071015.D
Acq: 12 Nov 2021 06:06

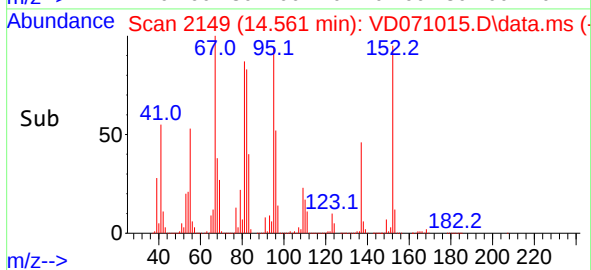
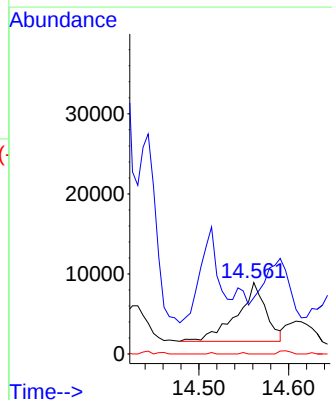
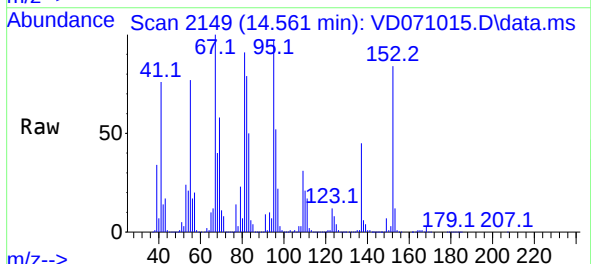
Instrument :
MSVOA_D
ClientSampleId :

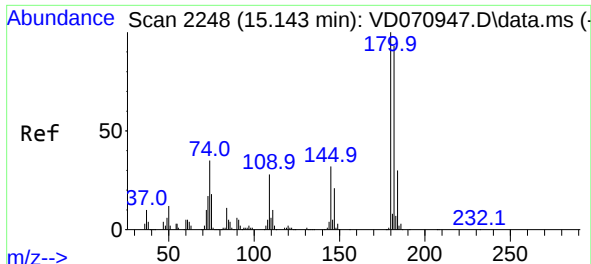
Tgt Ion: 91 Resp: 88657
Ion Ratio Lower Upper
91 100
92 11.8 27.3 81.9#
134 0.0 12.3 36.9#



#92
1,2-Dibromo-3-Chloropropane
Concen: 20.930 ug/l
RT: 14.561 min Scan# 2149
Delta R.T. 0.070 min
Lab File: VD071015.D
Acq: 12 Nov 2021 06:06

Tgt Ion: 75 Resp: 16463
Ion Ratio Lower Upper
75 100
155 0.0 40.0 120.0#
157 0.4 49.8 149.3#

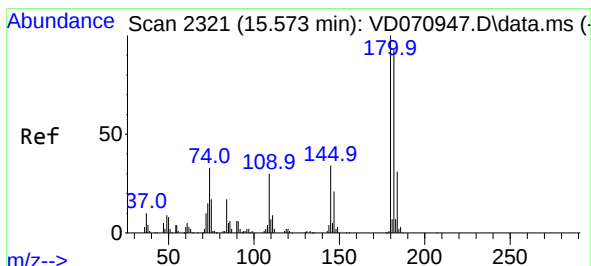
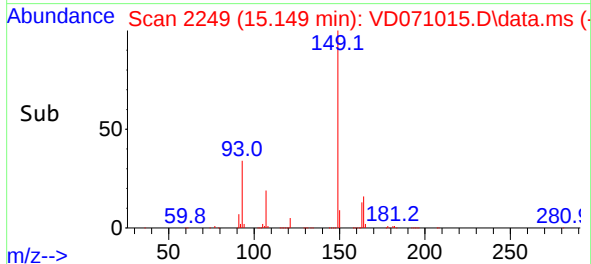
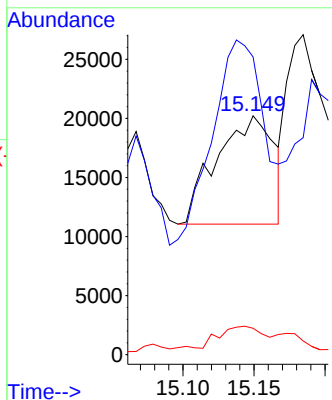
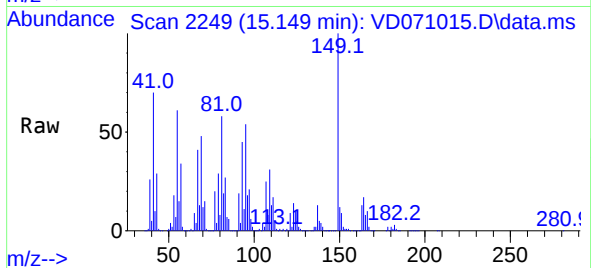




#93
1,2,4-Trichlorobenzene
Concen: 3.947 ug/l
RT: 15.149 min Scan# 21
Delta R.T. 0.006 min
Lab File: VD071015.D
Acq: 12 Nov 2021 06:06

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion:180 Resp: 25468
Ion Ratio Lower Upper
180 100
182 175.9 48.2 144.6#
145 15.0 15.4 46.2#



#96
1,2,3-Trichlorobenzene
Concen: 6.595 ug/l
RT: 15.590 min Scan# 2324
Delta R.T. 0.017 min
Lab File: VD071015.D
Acq: 12 Nov 2021 06:06

Tgt Ion:180 Resp: 35785
Ion Ratio Lower Upper
180 100
182 0.0 46.7 140.1#
145 0.0 15.9 47.6#

