

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD121121\
 Data File : VD071276.D
 Acq On : 11 Dec 2021 18:13
 Operator : VA/SY
 Sample : M5051-02
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 P-2

Quant Time: Dec 12 17:55:48 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)

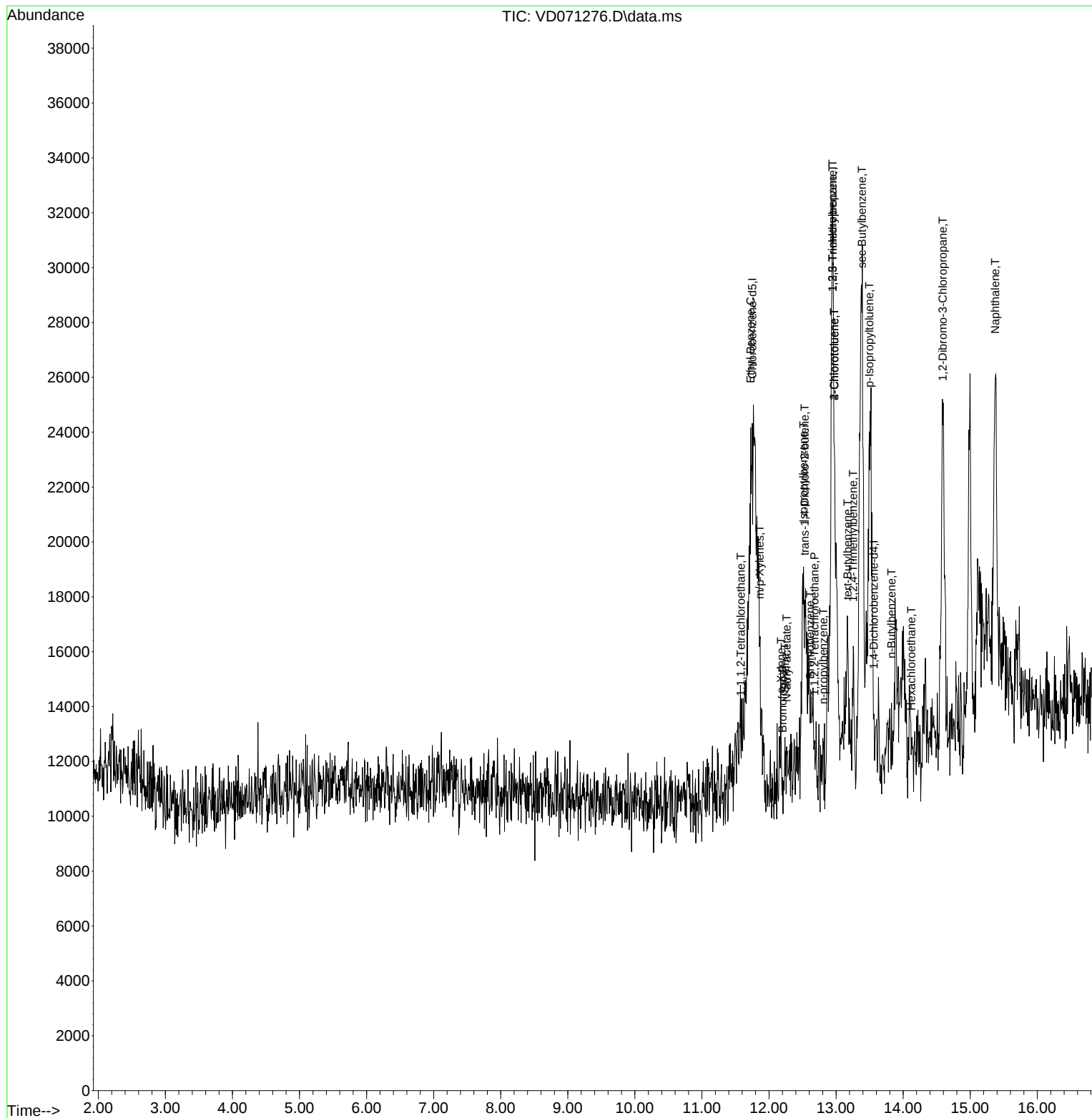
Internal Standards						
1) Pentafluorobenzene	0.000	168	0	0.000	ug/l	-7.99
34) 1,4-Difluorobenzene	0.000	114	0	0.000	ug/l	-8.86
63) Chlorobenzene-d5	11.749	117	69	50.000	ug/l	# 0.11
72) 1,4-Dichlorobenzene-d4	13.561	152	176	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	0.000	65	0	0.000	ug/l	
Spiked Amount	50.000	Range	50 - 163	Recovery	=	0.000%#
35) Dibromofluoromethane	0.000	113	0	0.000	ug/l	
Spiked Amount	50.000	Range	54 - 147	Recovery	=	0.000%#
50) Toluene-d8	0.000	98	0	0.000	ug/l	
Spiked Amount	50.000	Range	49 - 140	Recovery	=	0.000%#
62) 4-Bromofluorobenzene	12.620	95	60	0.000	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	0.000%#
Target Compounds						Qvalue
66) 1,1,1,2-Tetrachloroethane	11.579	131	65	139.053	ug/l #	8
67) Ethyl Benzene	11.726	91	991	411.188	ug/l #	44
68) m/p-Xylenes	11.861	106	151	165.954	ug/l #	1
69) o-Xylene	12.179	106	265	309.875	ug/l #	1
70) Styrene	12.238	104	61	42.323	ug/l #	27
71) Bromoform	12.202	173	63	260.151	ug/l #	29
73) Isopropylbenzene	12.514	105	117	9.181	ug/l #	49
74) N-amyl acetate	12.261	43	171	49.123	ug/l #	48
75) 1,1,2,2-Tetrachloroethane	12.679	83	55	26.207	ug/l #	25
76) 1,2,3-Trichloropropane	12.949	75	307	183.081	ug/l	85
77) Bromobenzene	12.614	156	641	232.221	ug/l #	22
78) n-propylbenzene	12.808	91	338	21.298	ug/l	96
79) 2-Chlorotoluene	12.973	91	262	29.414	ug/l	83
80) 1,3,5-Trimethylbenzene	12.949	105	2145	204.115	ug/l	87
81) trans-1,4-Dichloro-2-b...	12.532	75	93	120.514	ug/l #	1
82) 4-Chlorotoluene	12.973	91	262	28.333	ug/l	84
83) tert-Butylbenzene	13.173	119	71	7.867	ug/l #	1
84) 1,2,4-Trimethylbenzene	13.255	105	2465	240.258	ug/l	88
85) sec-Butylbenzene	13.385	105	122	8.851	ug/l #	57
86) p-Isopropyltoluene	13.496	119	306	27.142	ug/l #	14
89) n-Butylbenzene	13.826	91	71	6.451	ug/l #	32
90) Hexachloroethane	14.120	117	69	32.285	ug/l #	14
92) 1,2-Dibromo-3-Chloropr...	14.590	75	169	494.490	ug/l #	4
95) Naphthalene	15.373	128	13716	2669.397	ug/l #	87

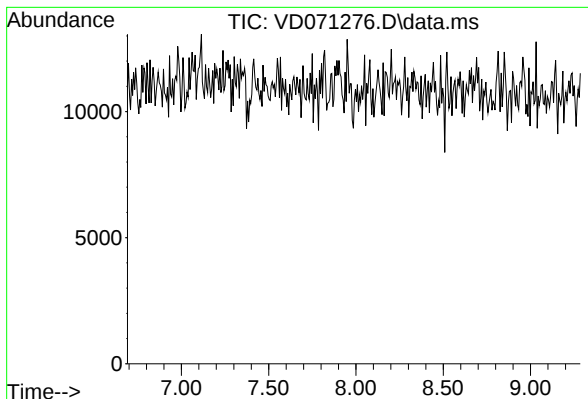
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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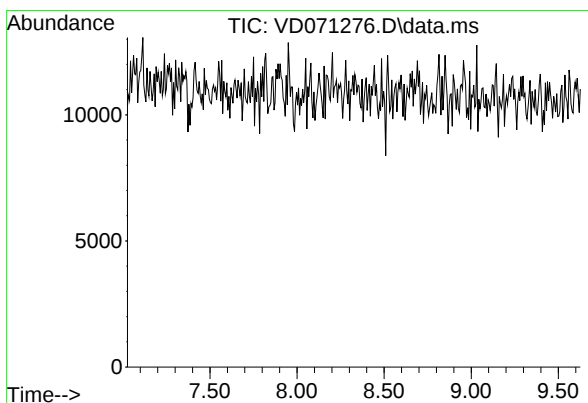
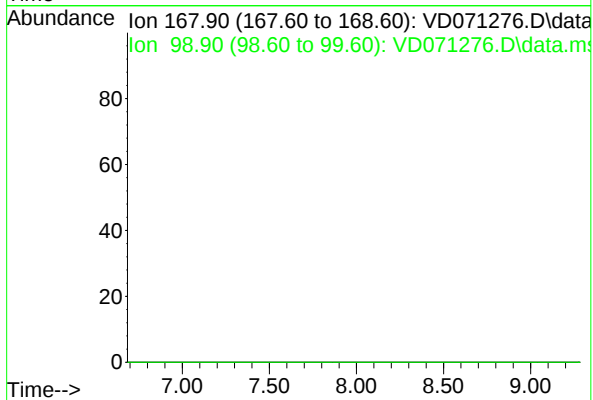


#1
Pentafluorobenzene
Concen: 0.000 ug/l
Expected RT: 7.99 min

Lab File: VD071276.D
Acq: 11 Dec 2021 18:13

Instrument :
MSVOA_D
ClientSampleId :
P-2

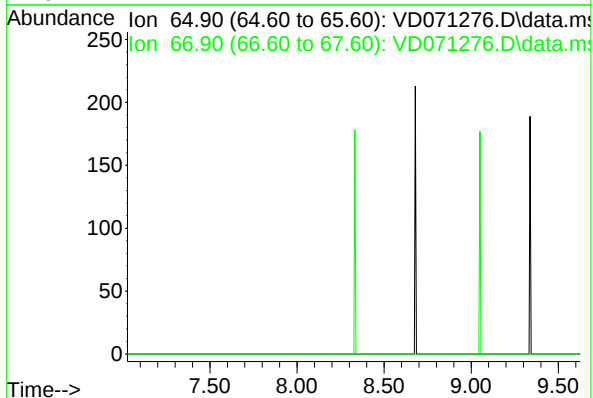
Tgt Ion: 168
Sig Exp Ratio
168 100
99 58.2

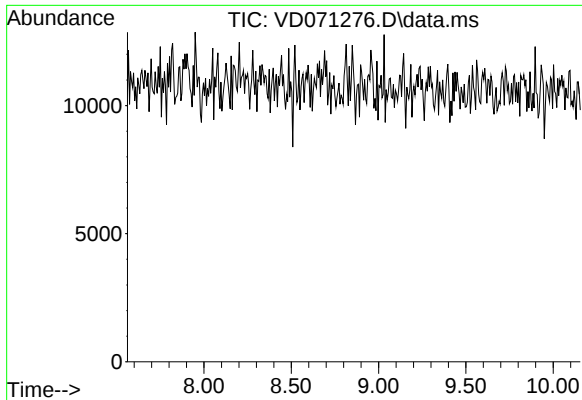


#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 8.33 min

Lab File: VD071276.D
Acq: 11 Dec 2021 18:13

Tgt Ion: 65
Sig Exp Ratio
65 100
67 56.1





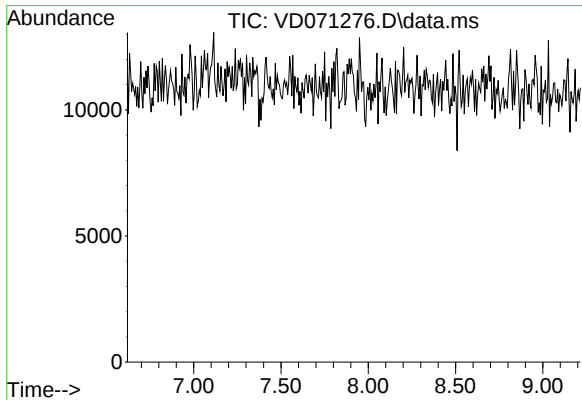
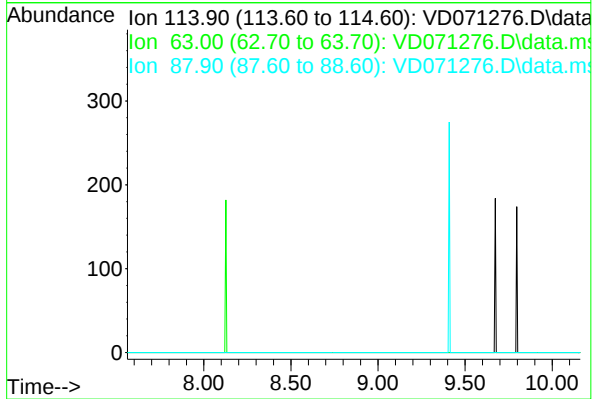
#34
 1,4-Difluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 8.86 min

 Lab File: VD071276.D
 Acq: 11 Dec 2021 18:13

Instrument :
 MSVOA_D
 ClientSampleId :
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Tgt Ion: 114

Sig	Exp Ratio
114	100
63	20.9
88	16.4

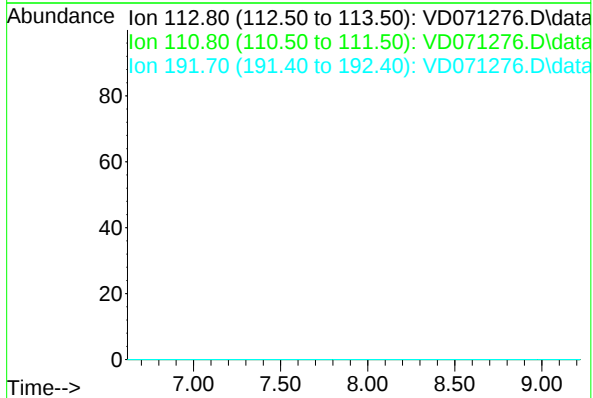


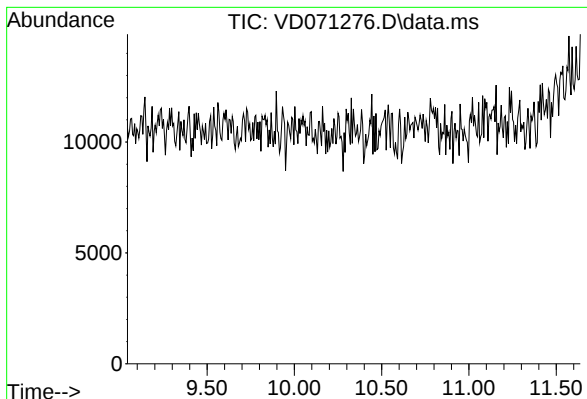
#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 7.92 min

 Lab File: VD071276.D
 Acq: 11 Dec 2021 18:13

Tgt Ion: 113

Sig	Exp Ratio
113	100
111	102.5
192	19.0

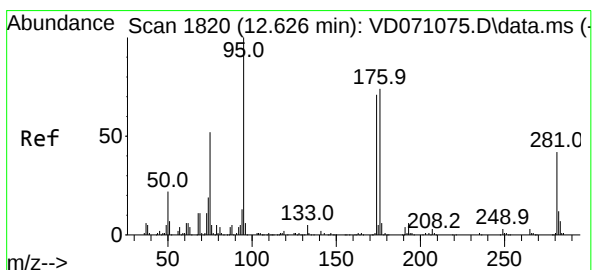
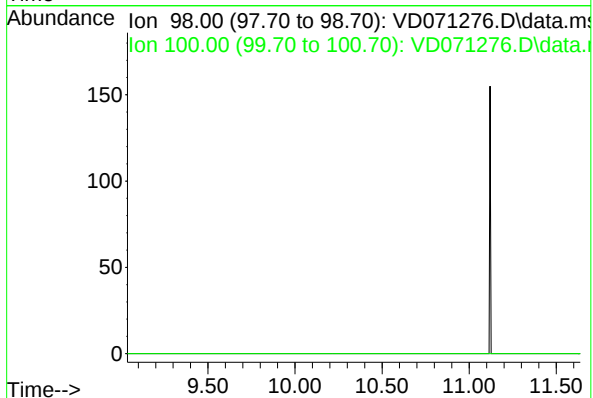




#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 10.34 min
Lab File: VD071276.D
Acq: 11 Dec 2021 18:13

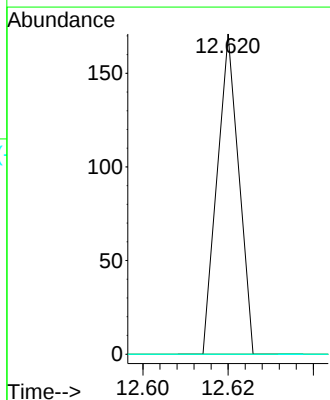
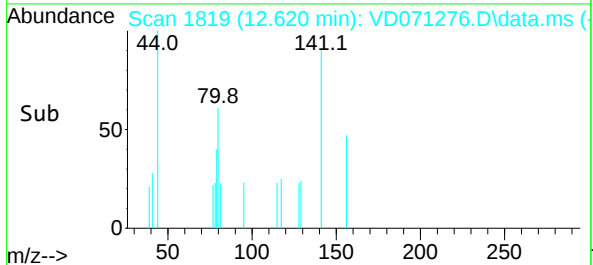
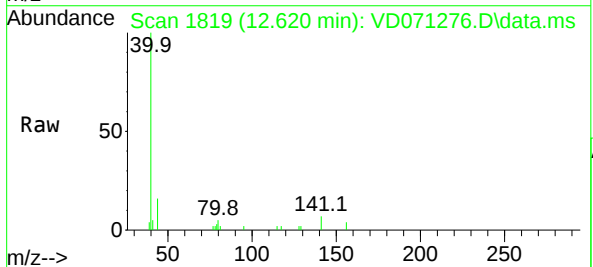
Instrument :
MSVOA_D
ClientSampleId :
P-2

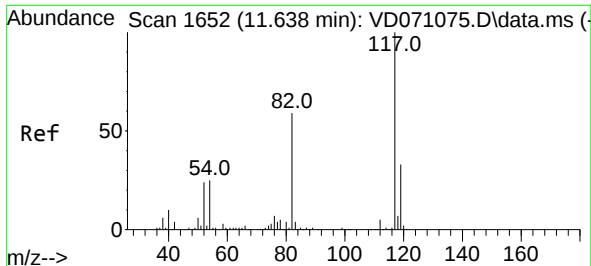
Tgt Ion: 98
Sig Exp Ratio
98 100
100 64.7



#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD071276.D
Acq: 11 Dec 2021 18:13

Tgt Ion: 95 Resp: 60
Ion Ratio Lower Upper
95 100
174 0.0 0.0 159.4
176 0.0 0.0 154.0

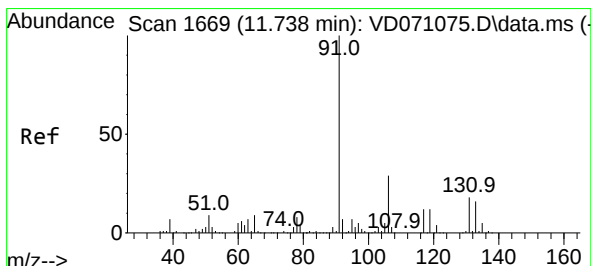
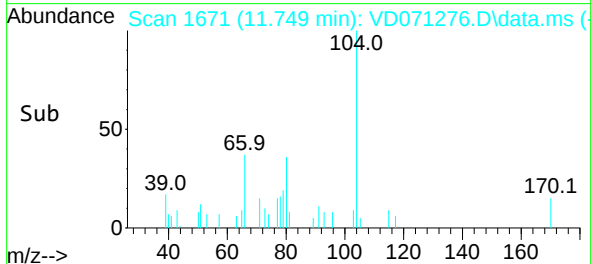
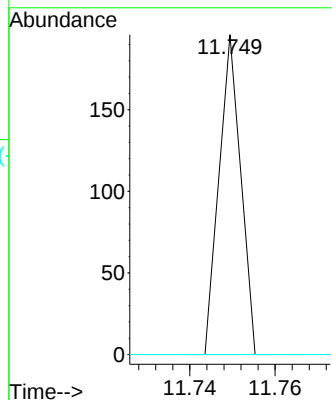
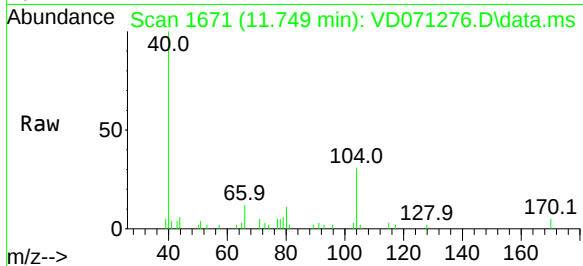




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.749 min Scan# 1642
Delta R.T. 0.111 min
Lab File: VD071276.D
Acq: 11 Dec 2021 18:13

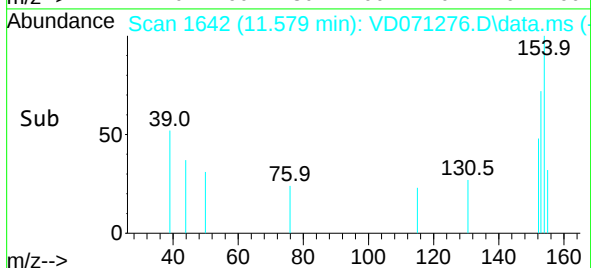
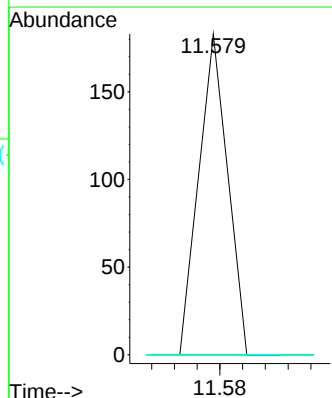
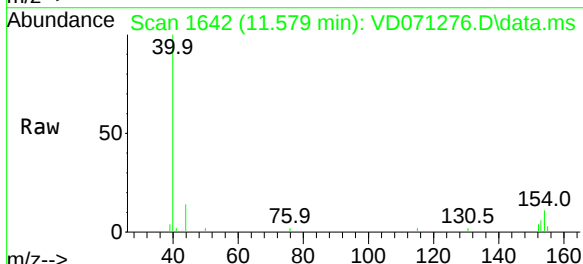
Instrument :
MSVOA_D
ClientSampleId :
P-2

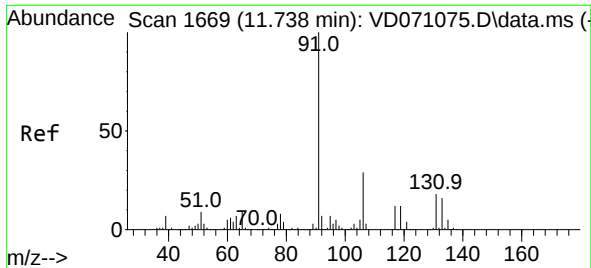
Tgt Ion:117 Resp: 69
Ion Ratio Lower Upper
117 100
82 0.0 44.7 67.1#
119 0.0 26.2 39.4#



#66
1,1,1,2-Tetrachloroethane
Concen: 139.053 ug/l
RT: 11.579 min Scan# 1642
Delta R.T. -0.159 min
Lab File: VD071276.D
Acq: 11 Dec 2021 18:13

Tgt Ion:131 Resp: 65
Ion Ratio Lower Upper
131 100
133 0.0 48.0 144.0#
119 0.0 33.5 100.4#

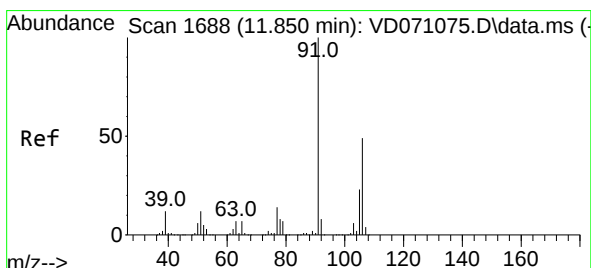
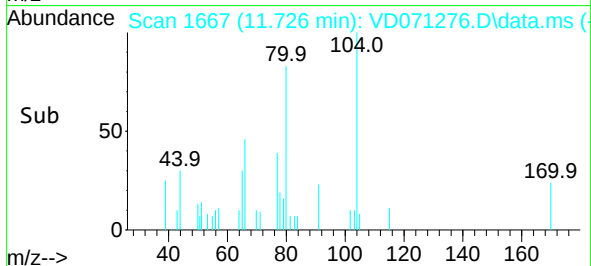
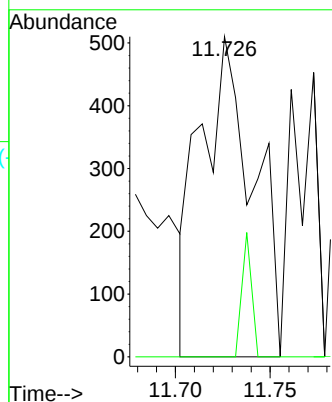
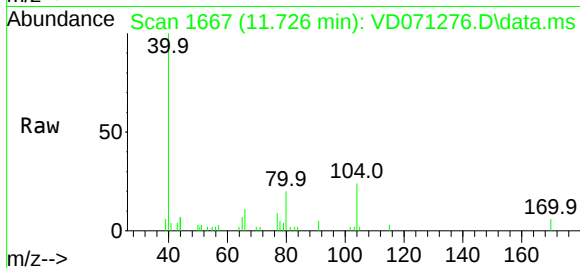




#67
Ethyl Benzene
Concen: 411.188 ug/l
RT: 11.726 min Scan# 1667
Delta R.T. -0.012 min
Lab File: VD071276.D
Acq: 11 Dec 2021 18:13

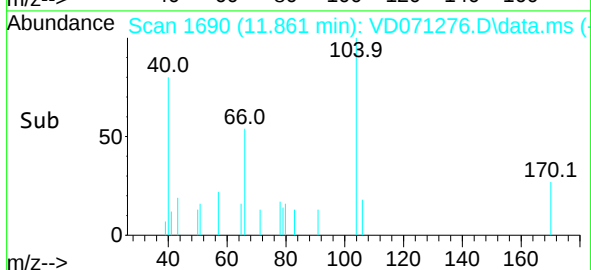
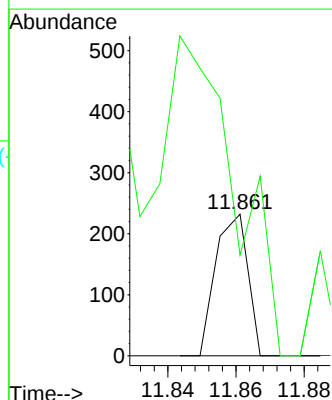
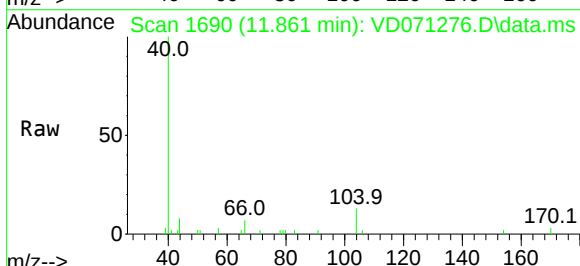
Instrument :
MSVOA_D
ClientSampleId :
P-2

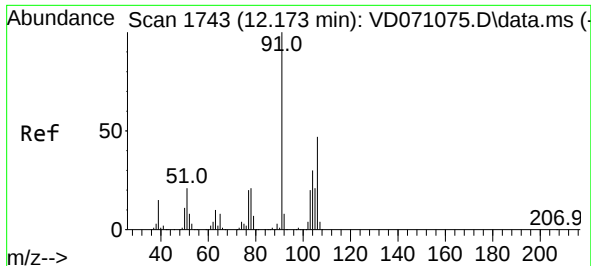
Tgt Ion: 91 Resp: 991
Ion Ratio Lower Upper
91 100
106 0.0 24.6 36.8#



#68
m/p-Xylenes
Concen: 165.954 ug/l
RT: 11.861 min Scan# 1690
Delta R.T. 0.011 min
Lab File: VD071276.D
Acq: 11 Dec 2021 18:13

Tgt Ion:106 Resp: 151
Ion Ratio Lower Upper
106 100
91 504.6 160.1 240.1#

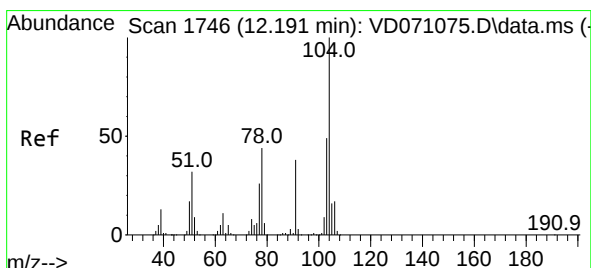
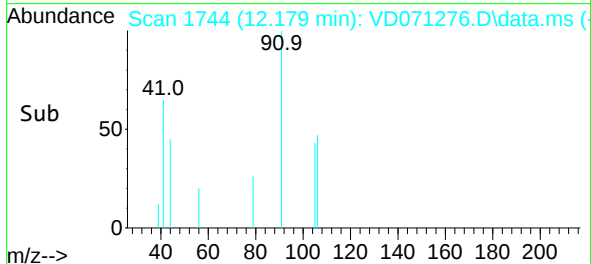
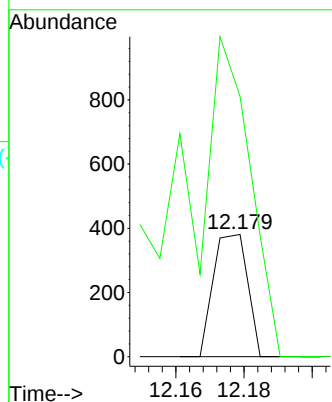
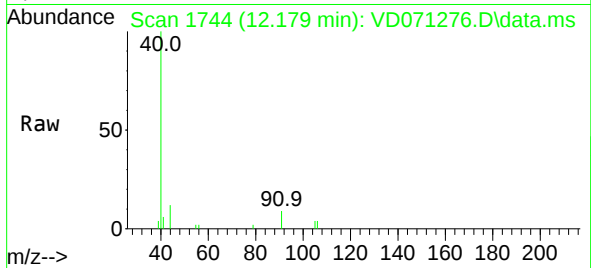




#69
o-Xylene
Concen: 309.875 ug/l
RT: 12.179 min Scan# 11
Delta R.T. 0.006 min
Lab File: VD071276.D
Acq: 11 Dec 2021 18:13

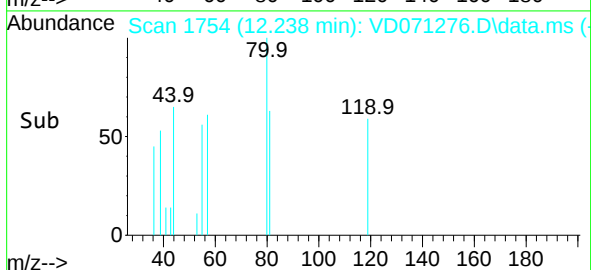
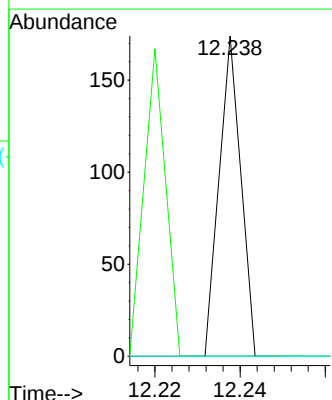
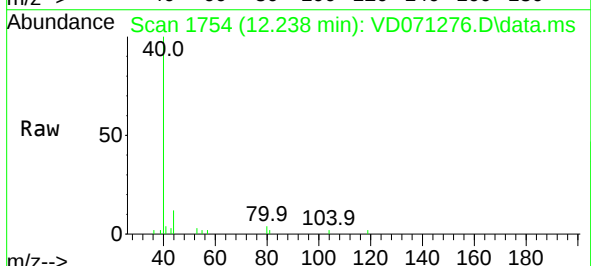
Instrument :
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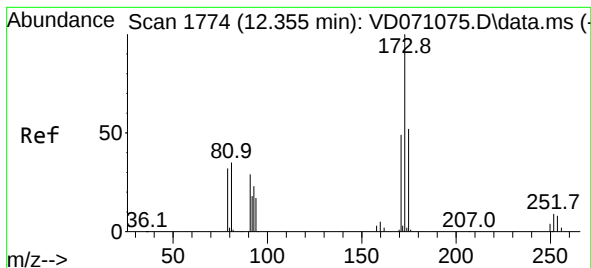
Tgt Ion:106 Resp: 265
Ion Ratio Lower Upper
106 100
91 513.2 106.3 319.0#



#70
Styrene
Concen: 42.323 ug/l
RT: 12.238 min Scan# 1754
Delta R.T. 0.047 min
Lab File: VD071276.D
Acq: 11 Dec 2021 18:13

Tgt Ion:104 Resp: 61
Ion Ratio Lower Upper
104 100
78 96.7 39.4 59.0#
103 0.0 43.4 65.0#





#71

Bromoform

Concen: 260.151 ug/l

RT: 12.202 min Scan# 1

Delta R.T. -0.153 min

Lab File: VD071276.D

Acq: 11 Dec 2021 18:13

Instrument :

MSVOA_D

ClientSampleId :

P-2

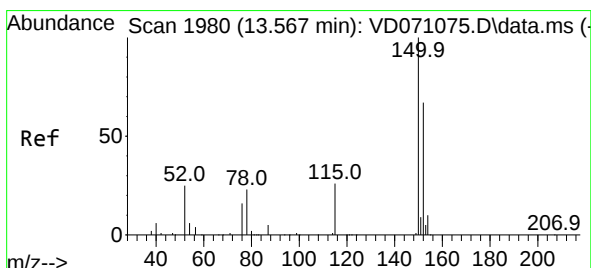
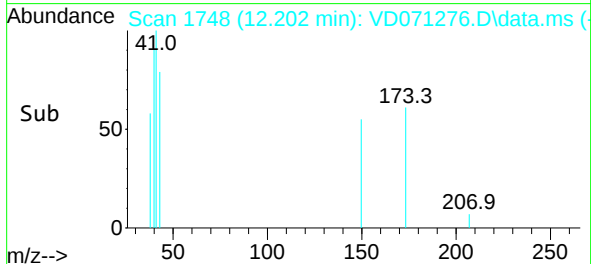
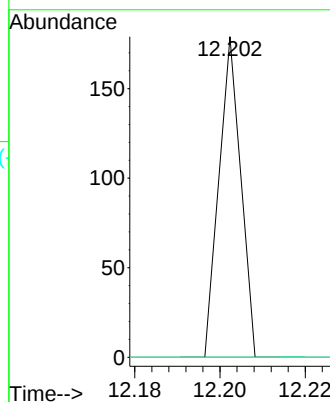
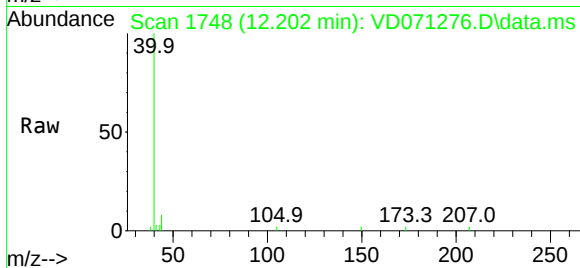
Tgt Ion:173 Resp: 63

Ion Ratio Lower Upper

173 100

175 0.0 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. -0.006 min

Lab File: VD071276.D

Acq: 11 Dec 2021 18:13

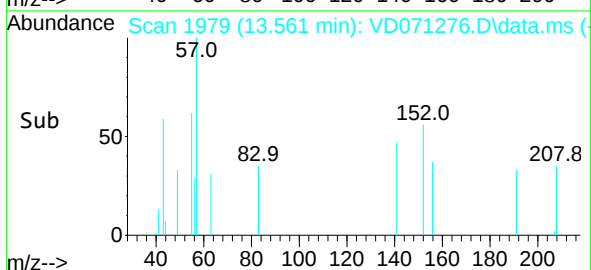
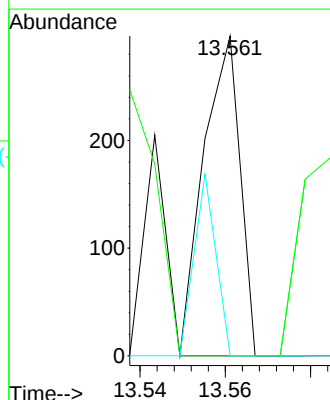
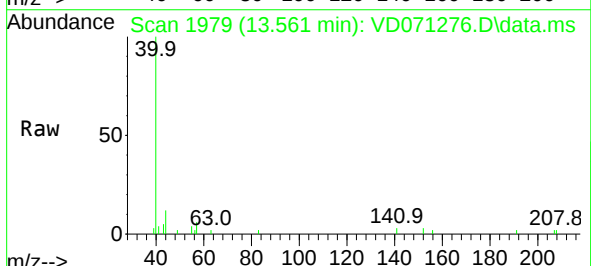
Tgt Ion:152 Resp: 176

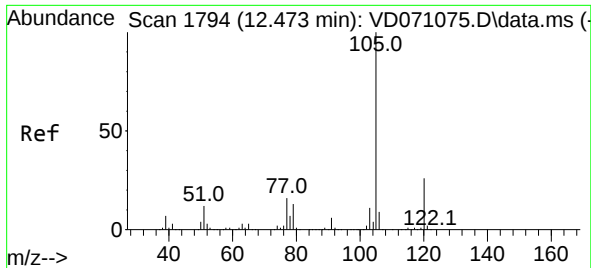
Ion Ratio Lower Upper

152 100

115 0.0 29.8 89.3#

150 34.1 0.0 349.2

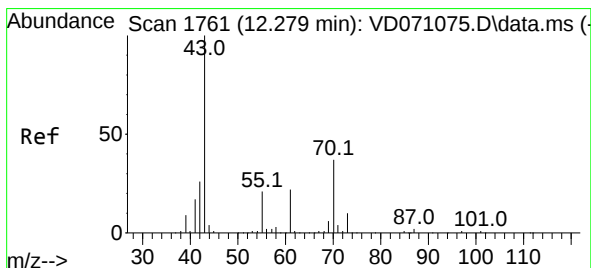
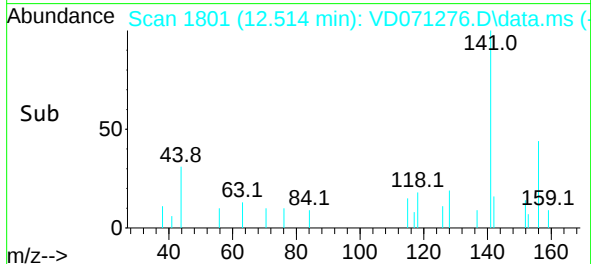
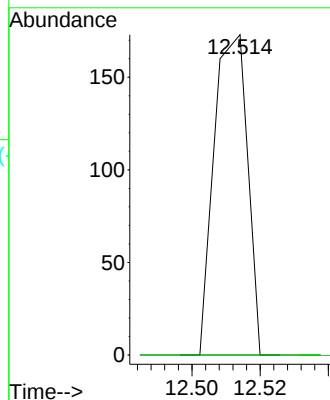
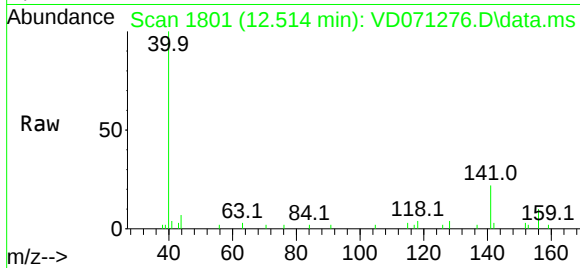




#73
Isopropylbenzene
Concen: 9.181 ug/l
RT: 12.514 min Scan# 117
Delta R.T. 0.041 min
Lab File: VD071276.D
Acq: 11 Dec 2021 18:13

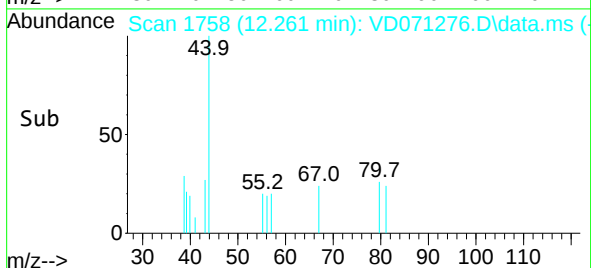
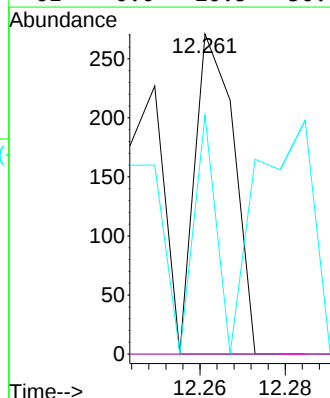
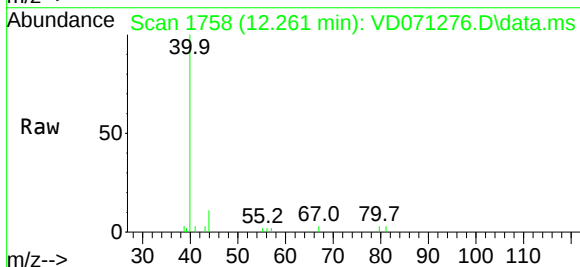
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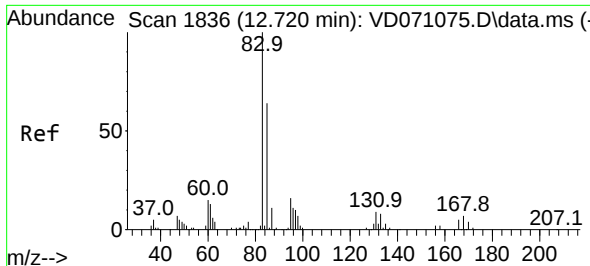
Tgt Ion:105 Resp: 117
Ion Ratio Lower Upper
105 100
120 0.0 13.2 39.5#



#74
N-ethyl acetate
Concen: 49.123 ug/l
RT: 12.261 min Scan# 1758
Delta R.T. -0.018 min
Lab File: VD071276.D
Acq: 11 Dec 2021 18:13

Tgt Ion: 43 Resp: 171
Ion Ratio Lower Upper
43 100
70 0.0 36.6 55.0#
55 41.5 22.5 33.7#
61 0.0 20.5 30.7#

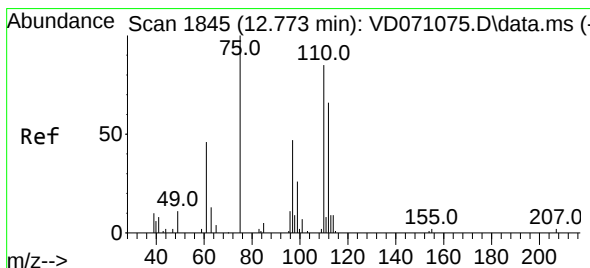
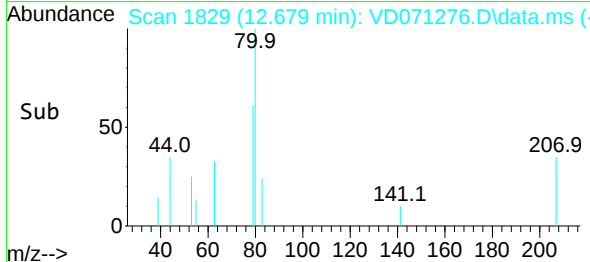
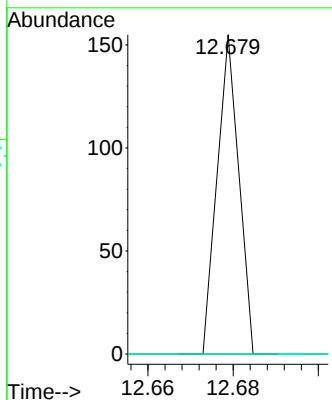
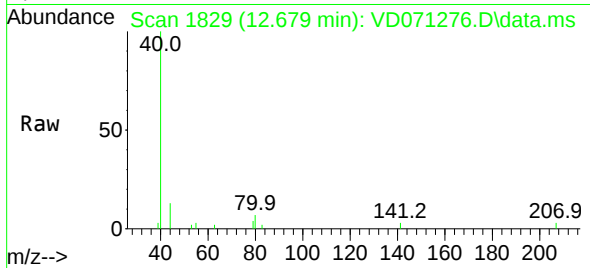




#75
 1,1,2,2-Tetrachloroethane
 Concen: 26.207 ug/l
 RT: 12.679 min Scan# 1829
 Delta R.T. -0.041 min
 Lab File: VD071276.D
 Acq: 11 Dec 2021 18:13

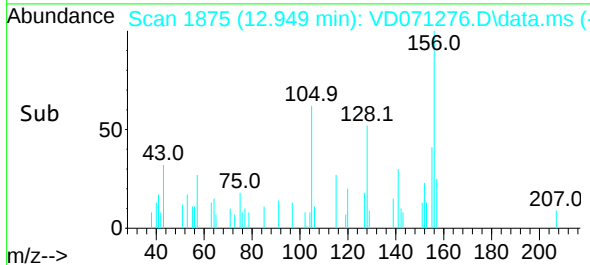
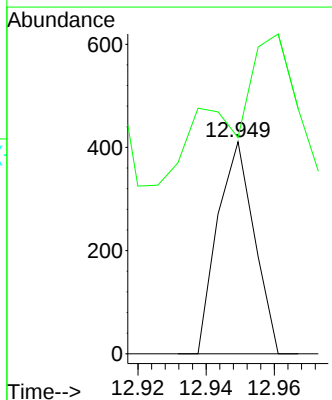
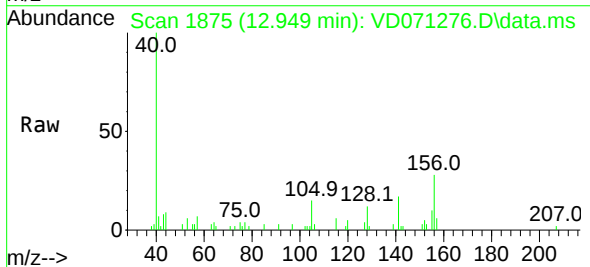
Instrument :
 MSVOA_D
 ClientSampleId :
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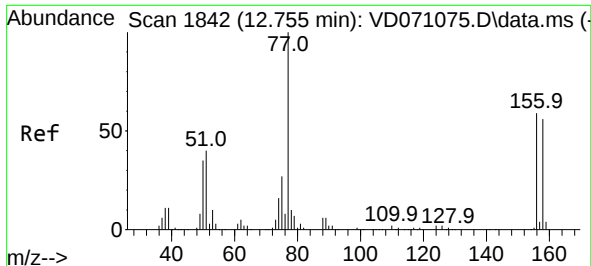
Tgt Ion: 83 Resp: 55
 Ion Ratio Lower Upper
 83 100
 131 0.0 4.9 14.7#
 85 0.0 32.0 96.2#



#76
 1,2,3-Trichloropropane
 Concen: 183.081 ug/l
 RT: 12.949 min Scan# 1875
 Delta R.T. 0.176 min
 Lab File: VD071276.D
 Acq: 11 Dec 2021 18:13

Tgt Ion: 75 Resp: 307
 Ion Ratio Lower Upper
 75 100
 77 347.2 158.4 475.3

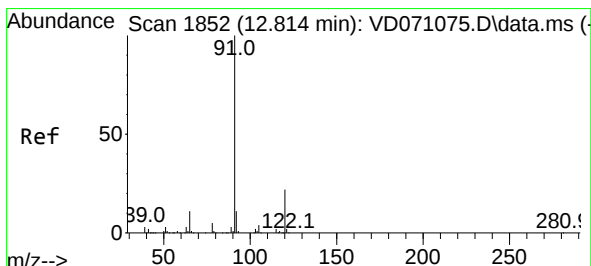
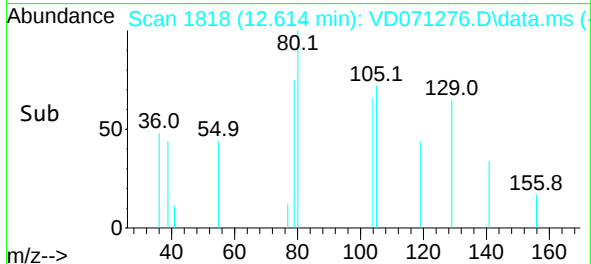
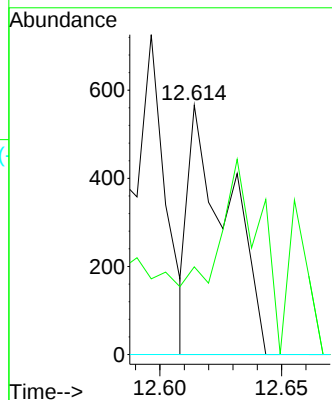
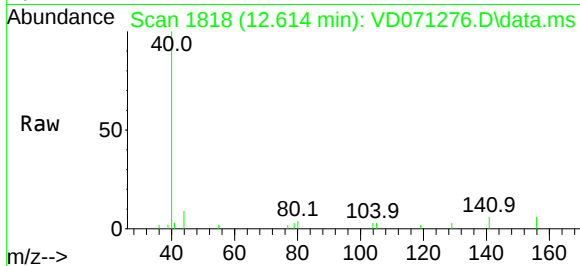




#77
Bromobenzene
Concen: 232.221 ug/l
RT: 12.614 min Scan# 1818
Delta R.T. -0.141 min
Lab File: VD071276.D
Acq: 11 Dec 2021 18:13

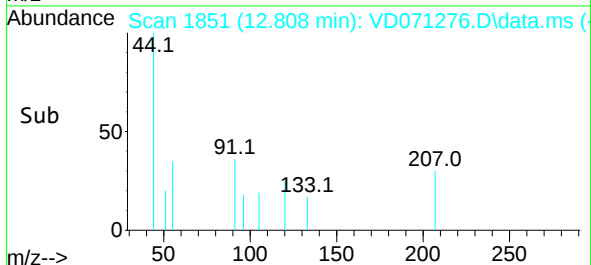
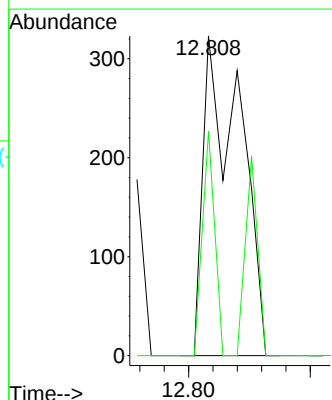
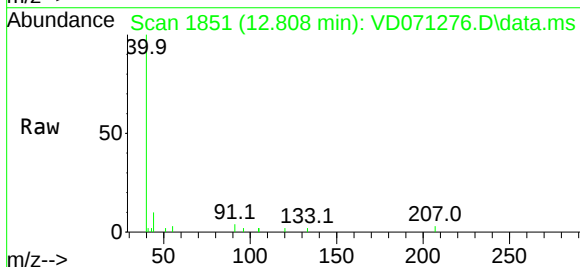
Instrument :
MSVOA_D
ClientSampleId :
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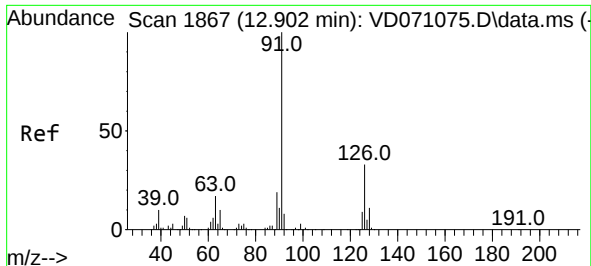
Tgt Ion:156 Resp: 641
Ion Ratio Lower Upper
156 100
77 92.5 96.6 289.8#
158 0.0 49.1 147.4#



#78
n-propylbenzene
Concen: 21.298 ug/l
RT: 12.808 min Scan# 1851
Delta R.T. -0.006 min
Lab File: VD071276.D
Acq: 11 Dec 2021 18:13

Tgt Ion: 91 Resp: 338
Ion Ratio Lower Upper
91 100
120 23.7 10.9 32.9

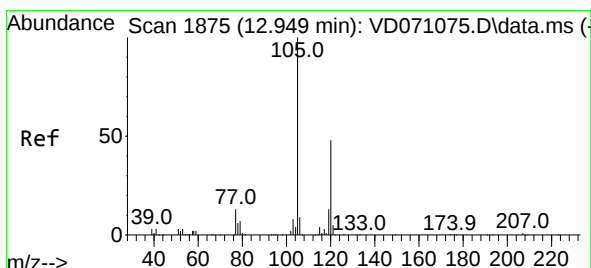
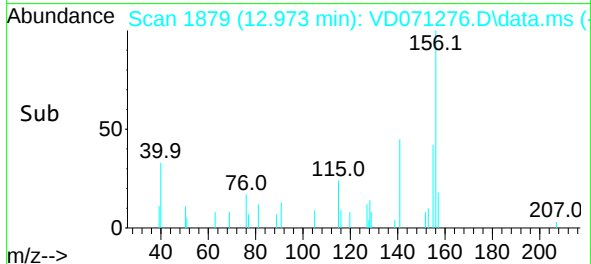
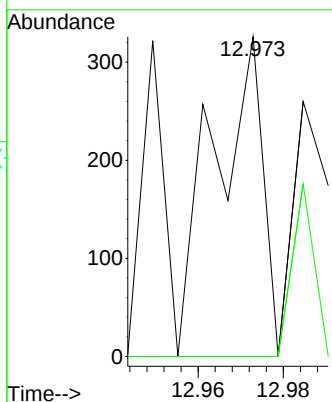
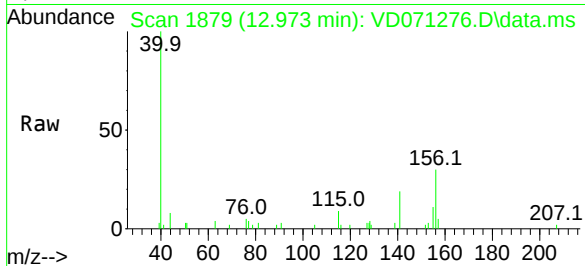




#79
2-Chlorotoluene
Concen: 29.414 ug/l
RT: 12.973 min Scan# 1879
Delta R.T. 0.071 min
Lab File: VD071276.D
Acq: 11 Dec 2021 18:13

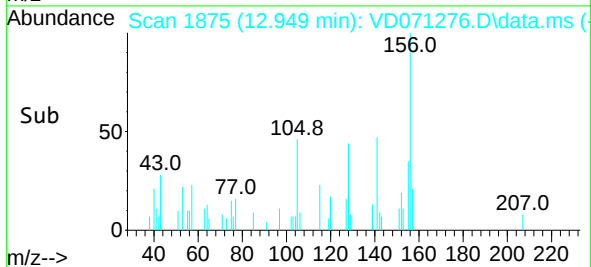
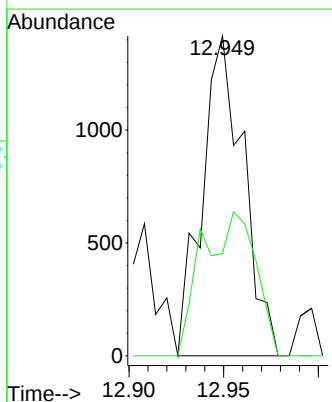
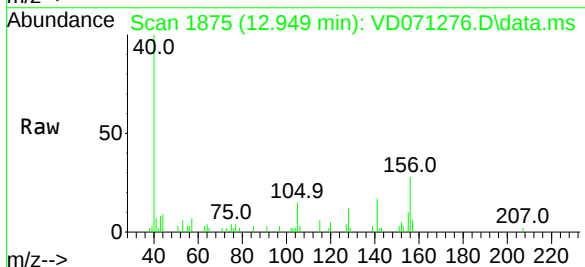
Instrument :
MSVOA_D
ClientSampleId :
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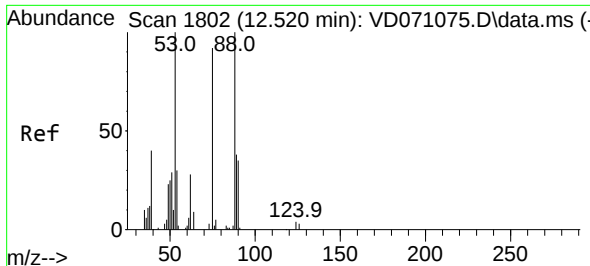
Tgt Ion: 91 Resp: 262
Ion Ratio Lower Upper
91 100
126 23.7 16.6 49.7



#80
1,3,5-Trimethylbenzene
Concen: 204.115 ug/l
RT: 12.949 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VD071276.D
Acq: 11 Dec 2021 18:13

Tgt Ion: 105 Resp: 2145
Ion Ratio Lower Upper
105 100
120 58.2 24.6 73.8

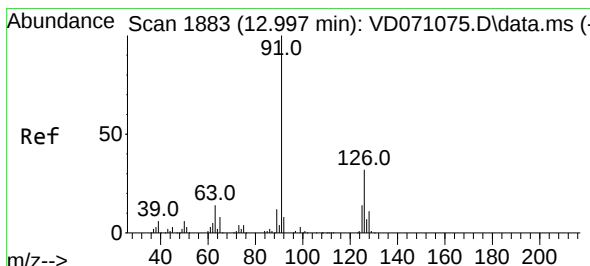
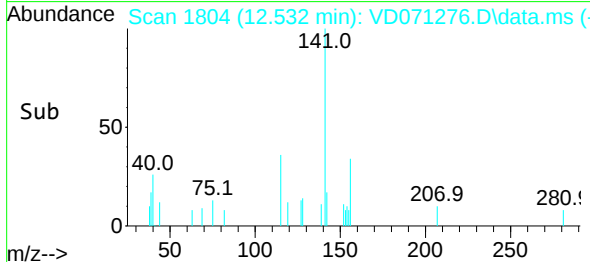
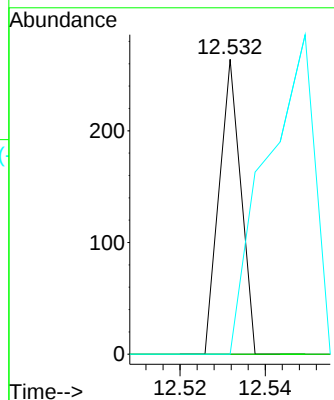
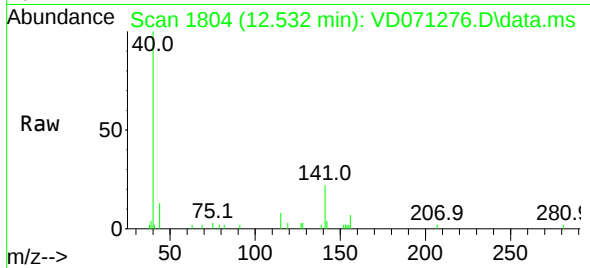




#81
trans-1,4-Dichloro-2-butene
Concen: 120.514 ug/l
RT: 12.532 min Scan# 1804
Delta R.T. 0.012 min
Lab File: VD071276.D
Acq: 11 Dec 2021 18:13

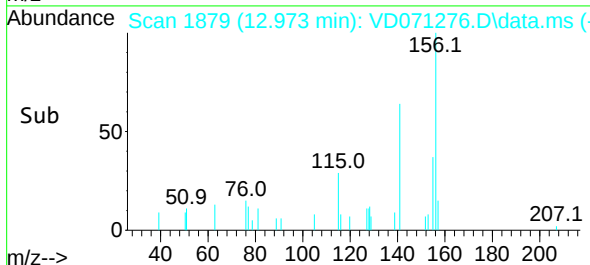
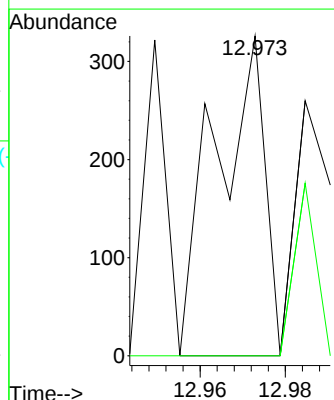
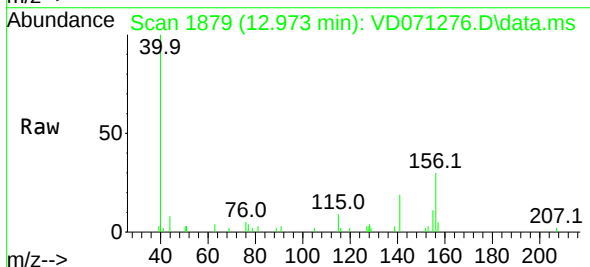
Instrument :
MSVOA_D
ClientSampleId :
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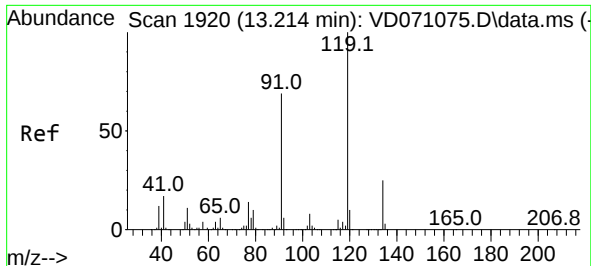
Tgt Ion: 75 Resp: 93
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 243.0 34.5 51.7#



#82
4-Chlorotoluene
Concen: 28.333 ug/l
RT: 12.973 min Scan# 1879
Delta R.T. -0.024 min
Lab File: VD071276.D
Acq: 11 Dec 2021 18:13

Tgt Ion: 91 Resp: 262
Ion Ratio Lower Upper
91 100
126 23.7 16.4 49.1

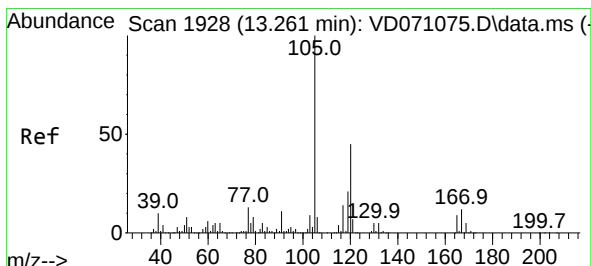
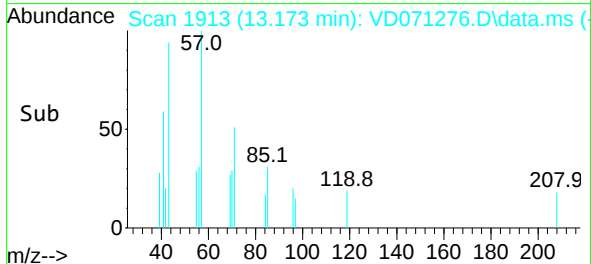
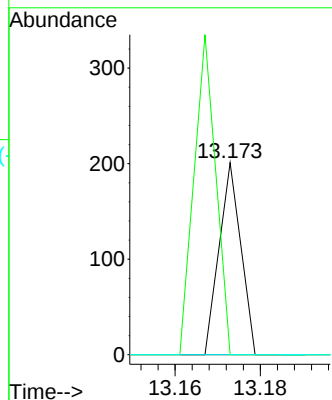
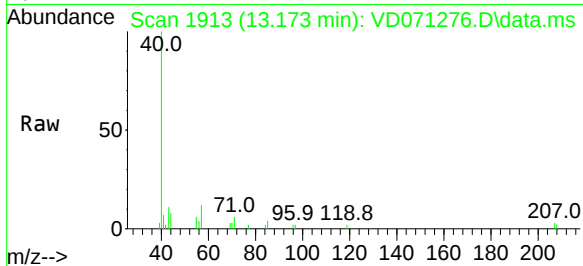




#83
tert-Butylbenzene
Concen: 7.867 ug/l
RT: 13.173 min Scan# 1913
Delta R.T. -0.041 min
Lab File: VD071276.D
Acq: 11 Dec 2021 18:13

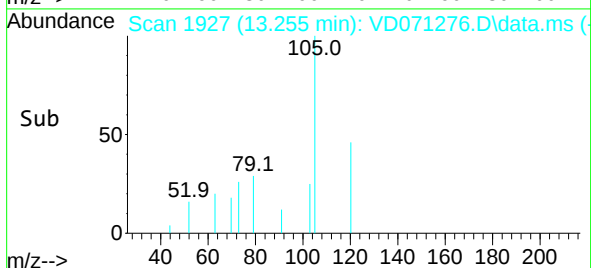
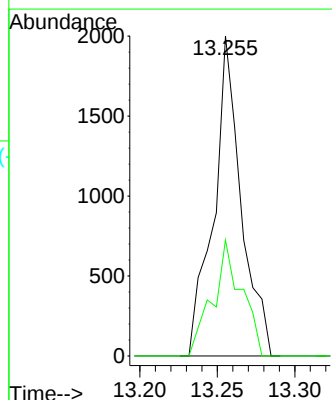
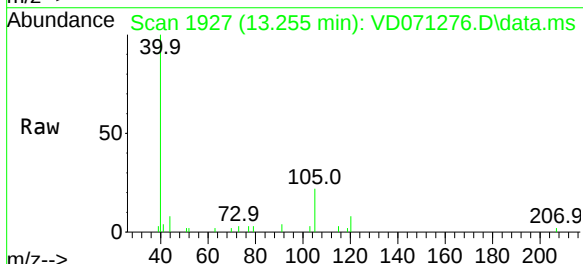
Instrument :
MSVOA_D
ClientSampleId :
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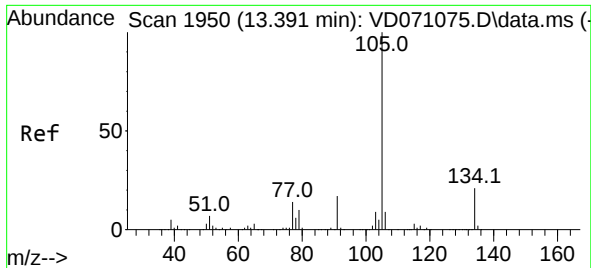
Tgt Ion:119 Resp: 71
Ion Ratio Lower Upper
119 100
91 166.2 32.5 97.5#
134 0.0 13.2 39.6#



#84
1,2,4-Trimethylbenzene
Concen: 240.258 ug/l
RT: 13.255 min Scan# 1927
Delta R.T. -0.006 min
Lab File: VD071276.D
Acq: 11 Dec 2021 18:13

Tgt Ion:105 Resp: 2465
Ion Ratio Lower Upper
105 100
120 38.1 22.9 68.7

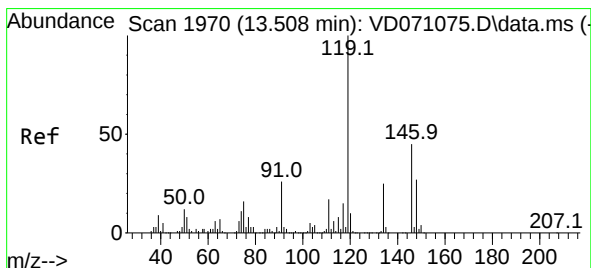
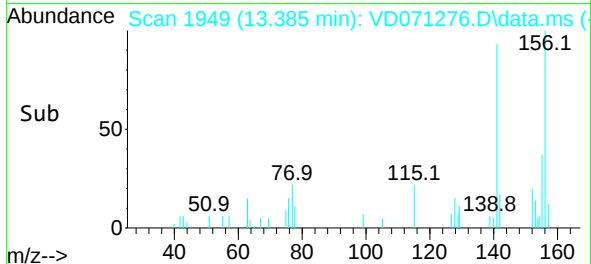
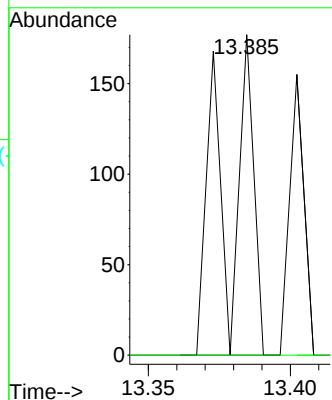
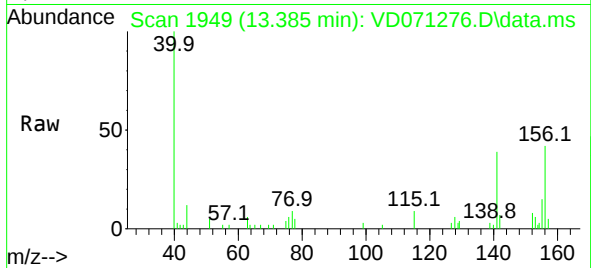




#85
 sec-Butylbenzene
 Concen: 8.851 ug/l
 RT: 13.385 min Scan# 1949
 Delta R.T. -0.006 min
 Lab File: VD071276.D
 Acq: 11 Dec 2021 18:13

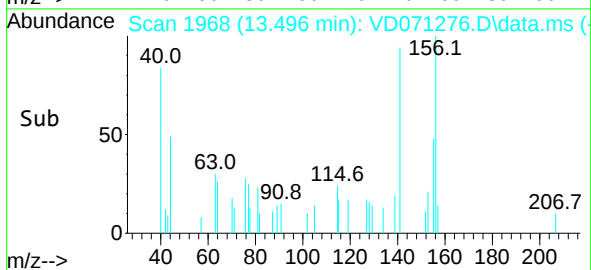
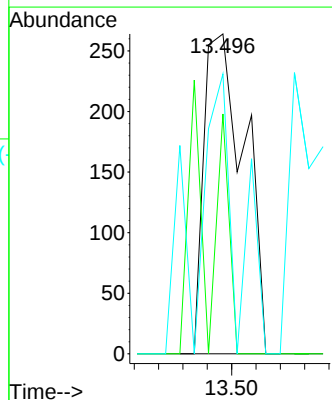
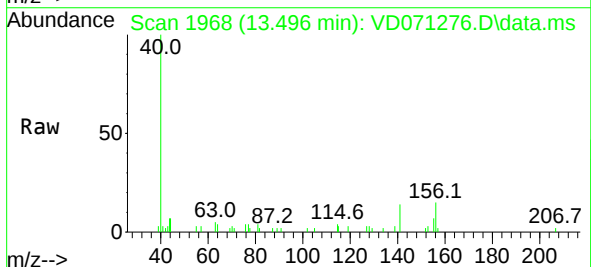
Instrument :
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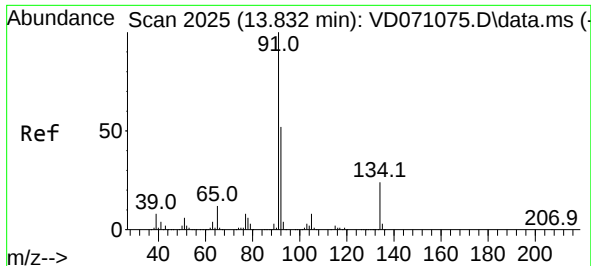
Tgt Ion:105 Resp: 122
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.7 28.9#



#86
 p-Isopropyltoluene
 Concen: 27.142 ug/l
 RT: 13.496 min Scan# 1968
 Delta R.T. -0.012 min
 Lab File: VD071276.D
 Acq: 11 Dec 2021 18:13

Tgt Ion:119 Resp: 306
 Ion Ratio Lower Upper
 119 100
 134 49.0 13.0 38.9#
 91 86.6 11.4 34.2#

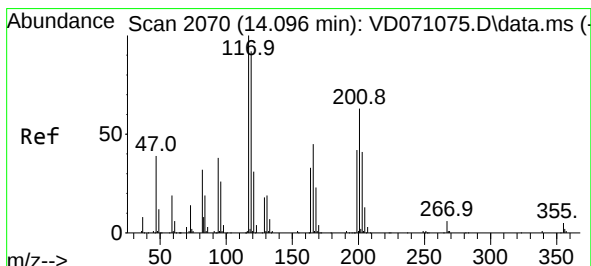
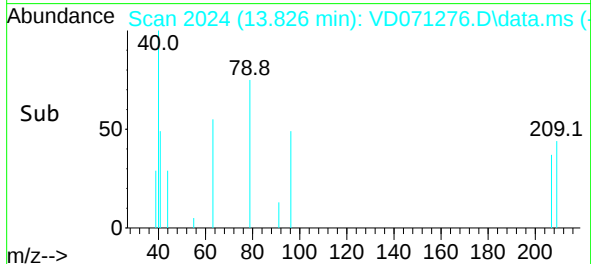
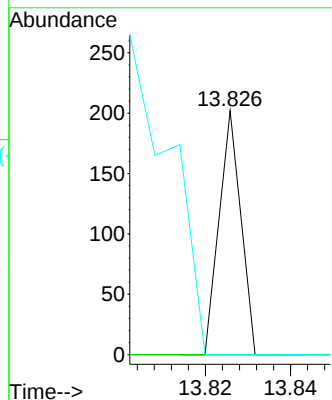
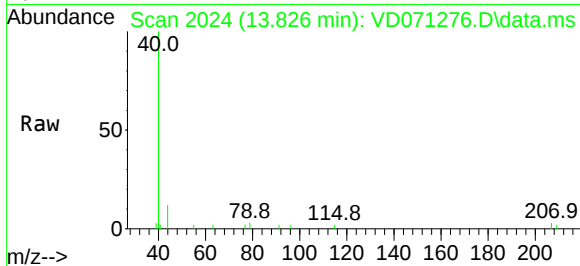




#89
n-Butylbenzene
Concen: 6.451 ug/l
RT: 13.826 min Scan# 2025
Delta R.T. -0.006 min
Lab File: VD071276.D
Acq: 11 Dec 2021 18:13

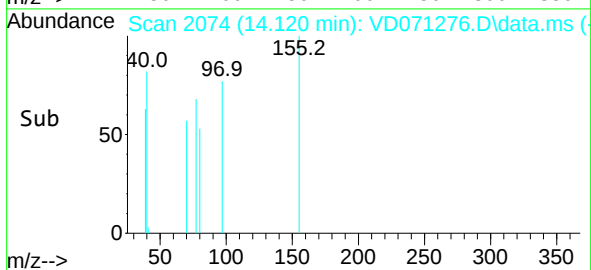
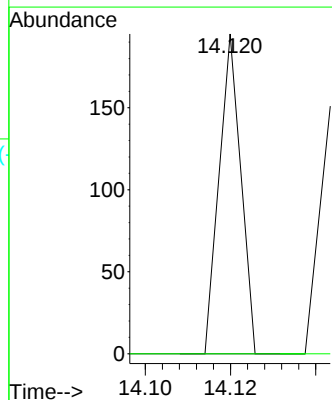
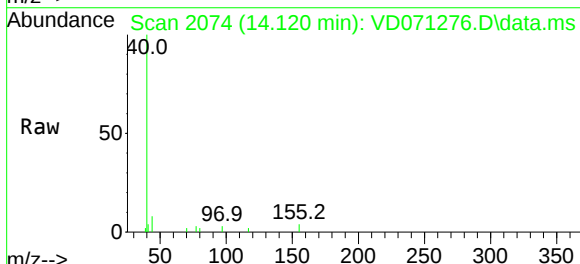
Instrument :
MSVOA_D
ClientSampleId :
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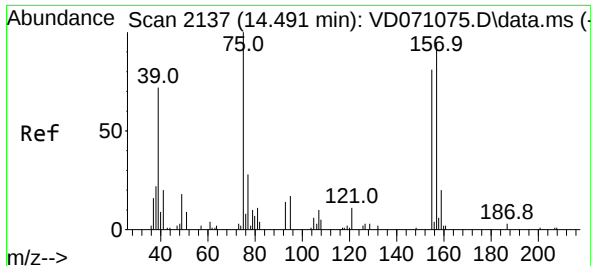
Tgt Ion: 91 Resp: 71
Ion Ratio Lower Upper
91 100
92 0.0 27.3 81.9#
134 0.0 12.3 36.9#



#90
Hexachloroethane
Concen: 32.285 ug/l
RT: 14.120 min Scan# 2074
Delta R.T. 0.024 min
Lab File: VD071276.D
Acq: 11 Dec 2021 18:13

Tgt Ion: 117 Resp: 69
Ion Ratio Lower Upper
117 100
201 0.0 36.0 108.1#





#92

1,2-Dibromo-3-Chloropropane

Concen: 494.490 ug/l

RT: 14.590 min Scan# 2137

Delta R.T. 0.099 min

Lab File: VD071276.D

Acq: 11 Dec 2021 18:13

Instrument :

MSVOA_D

ClientSampleId :

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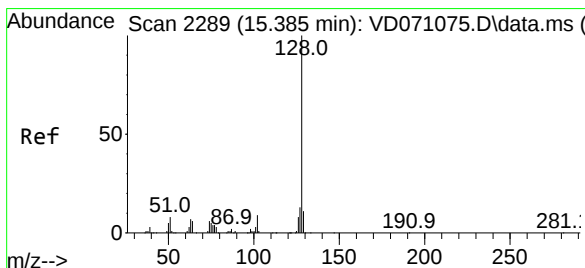
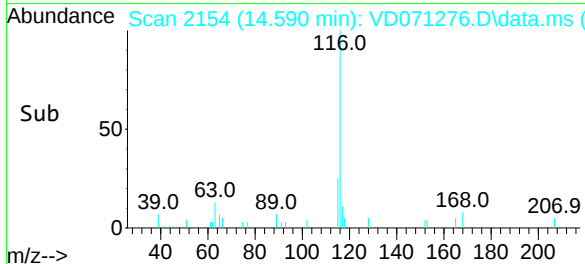
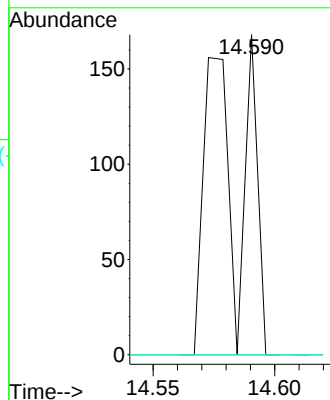
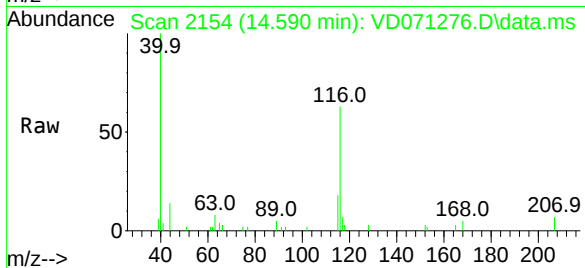
Tgt Ion: 75 Resp: 169

Ion Ratio Lower Upper

75 100

155 0.0 40.0 120.0#

157 0.0 49.8 149.3#



#95

Naphthalene

Concen: 2669.397 ug/l

RT: 15.373 min Scan# 2287

Delta R.T. -0.012 min

Lab File: VD071276.D

Acq: 11 Dec 2021 18:13

Tgt Ion: 128 Resp: 13716

Ion Ratio Lower Upper

128 100

127 17.8 10.7 16.1#

129 5.0 8.7 13.1#

