

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE010715\
 Data File : BE089346.D
 Acq On : 8 Jan 2015 1:25
 Operator : TP/IZ
 Sample : G1001-05
 Misc : LOD-WATER-0.5PPM-SIM
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 LOD-WATER2015-01

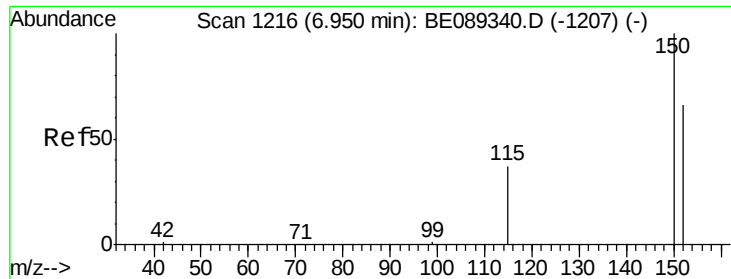
Quant Time: Jan 08 15:37:26 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BASE-BE010715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 08 15:21:44 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.95	152	18164	5.00	ng	0.00
2) Naphthalene-d8	8.51	136	71299	5.00	ng	0.00
6) Acenaphthene-d10	10.65	164	34049	5.00	ng	0.00
11) Phenanthrene-d10	12.72	188	51426	5.00	ng	0.00
15) Chrysene-d12	18.07	240	36782	5.00	ng	0.00
21) Perylene-d12	21.12	264	33107	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene-d5	7.64	82	35880	7.24	ng	0.00
7) 2-Fluorobiphenyl	9.85	172	59885	6.45	ng	0.00
17) Terphenyl-d14	15.85	244	46138	7.08	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	8.53	128	1218	0.08	ng	# 91
5) 2-Methylnaphthalene	9.39	142	745	0.07	ng	# 95
8) Acenaphthylene	10.48	152	4227	0.07	ng	# 85
9) Acenaphthene	10.69	154	777	0.09	ng	# 89
10) Fluorene	11.34	166	722	0.07	ng	# 99
12) Phenanthrene	12.75	178	4230	0.08	ng	# 90
13) Anthracene	12.84	178	3846	0.07	ng	# 85
14) Fluoranthene	14.96	202	887	0.07	ng	# 85
16) Pyrene	15.41	202	919	0.08	ng	# 87
18) Benzo(a)anthracene	18.05	228	3204	0.09	ng	# 85
19) Chrysene	18.12	228	3006	0.08	ng	# 84
20) Indeno(1,2,3-cd)pyrene	23.24	276	2502	0.07	ng	# 76
22) Benzo(b)fluoranthene	20.38	252	527	0.07	ng	# 50
23) Benzo(k)fluoranthene	20.43	252	735	0.08	ng	# 65
24) Benzo(a)pyrene	21.01	252	532	0.07	ng	# 65
25) Dibenzo(a,h)anthracene	23.31	278	449	0.07	ng	# 46
26) Benzo(g,h,i)perylene	23.82	276	2318	0.07	ng	# 62

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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.95 min Scan# 1216

Delta R.T. -0.00 min

Lab File: BE089346.D

Acq: 8 Jan 2015 1:25

Instrument :

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ClientSampleId :

LOD-WATER2015-01

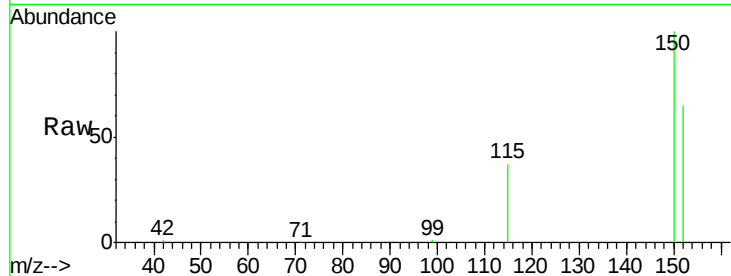
Tgt Ion:152 Resp: 18164

Ion Ratio Lower Upper

152 100

150 152.9 121.5 182.3

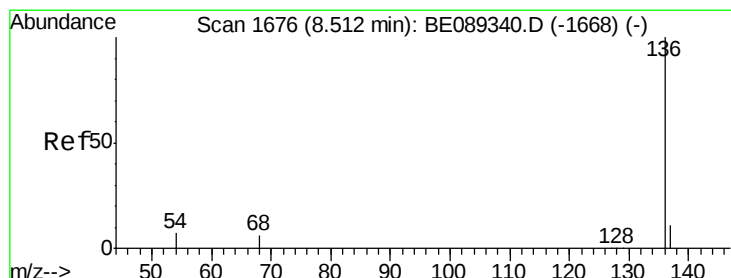
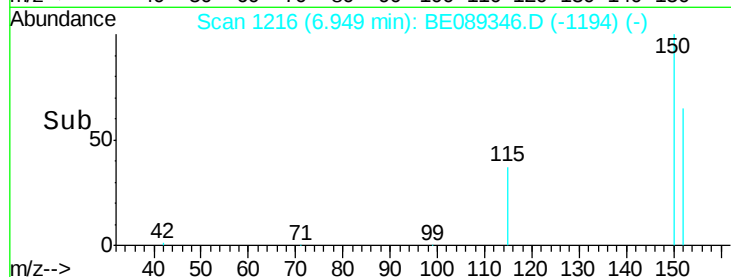
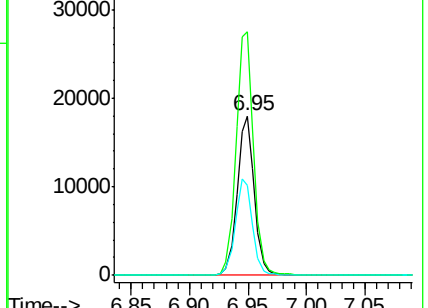
115 56.7 45.2 67.8



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 8.51 min Scan# 1675

Delta R.T. -0.00 min

Lab File: BE089346.D

Acq: 8 Jan 2015 1:25

Tgt Ion:136 Resp: 71299

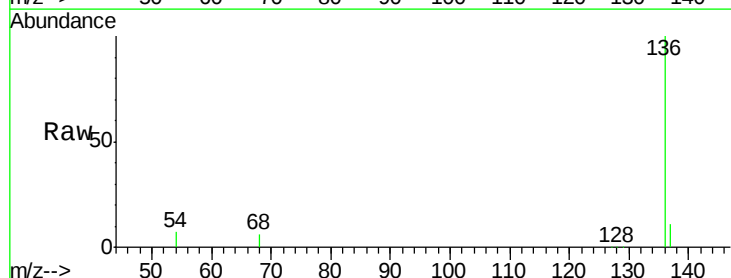
Ion Ratio Lower Upper

136 100

137 10.9 9.0 13.4

54 7.1 5.4 8.0

68 6.3 4.7 7.1

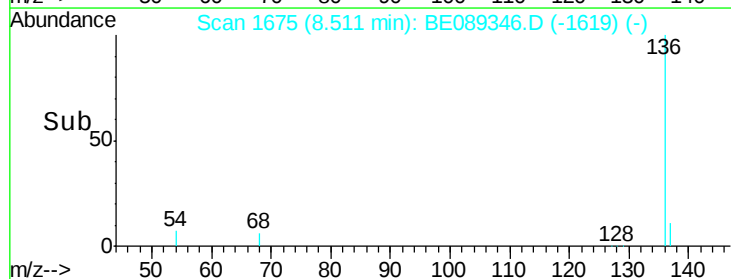
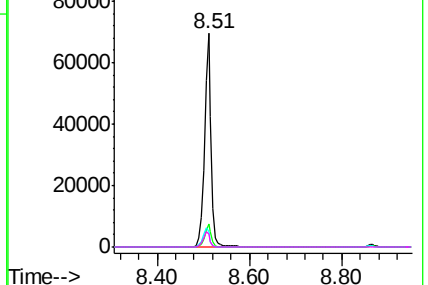


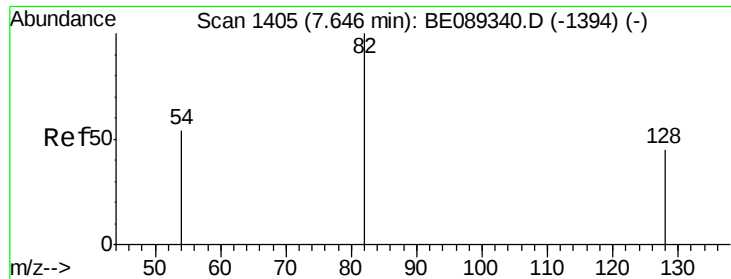
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0





#3

Nitrobenzene-d5

Concen: 7.24 ng

RT: 7.64 min Scan# 1404

Delta R.T. -0.00 min

Lab File: BE089346.D

Acq: 8 Jan 2015 1:25

Instrument :

BNA_E

ClientSampleId :

LOD-WATER2015-01

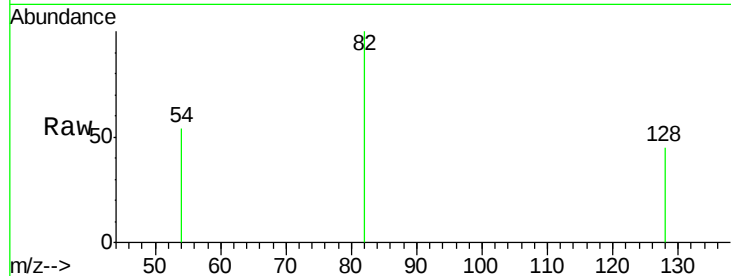
Tgt Ion: 82 Resp: 35880

Ion Ratio Lower Upper

82 100

128 45.4 36.5 54.7

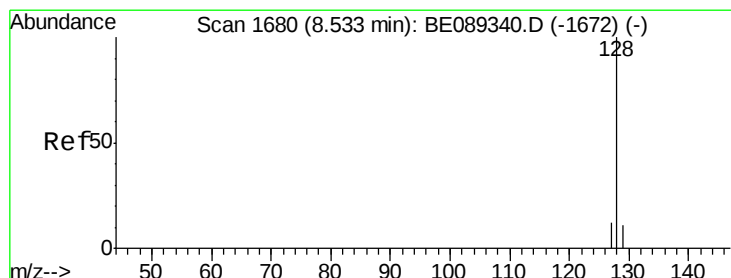
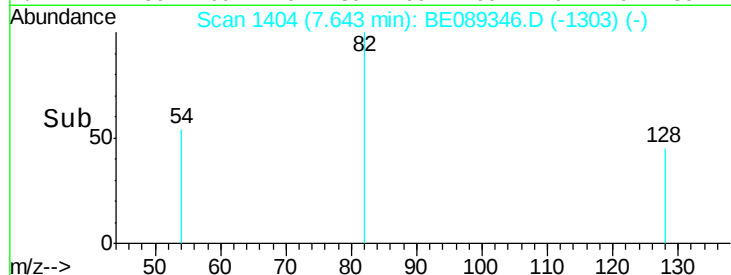
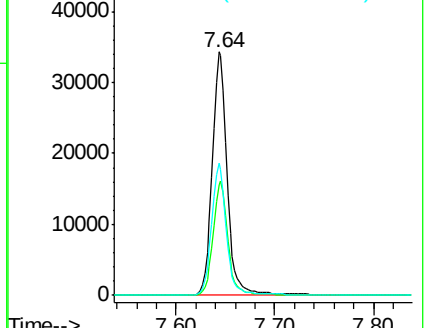
54 54.2 43.5 65.3



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#4

Naphthalene

Concen: 0.08 ng

RT: 8.53 min Scan# 1679

Delta R.T. -0.00 min

Lab File: BE089346.D

Acq: 8 Jan 2015 1:25

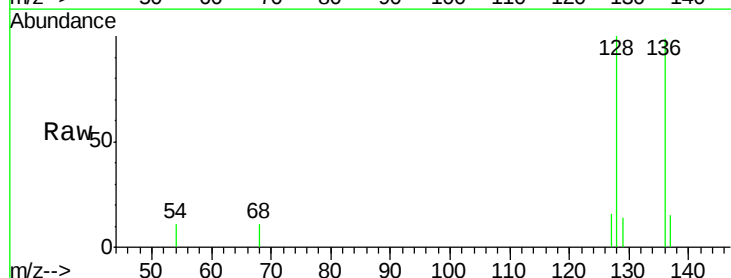
Tgt Ion: 128 Resp: 1218

Ion Ratio Lower Upper

128 100

129 14.5 8.8 13.2#

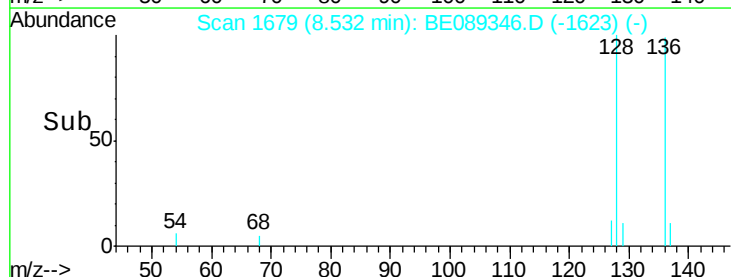
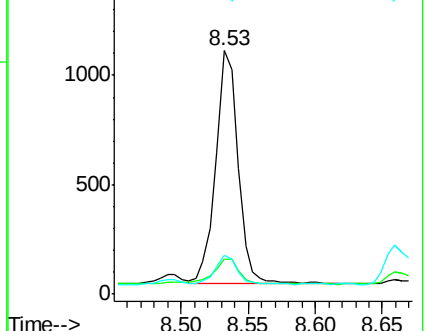
127 15.7 10.0 15.0#

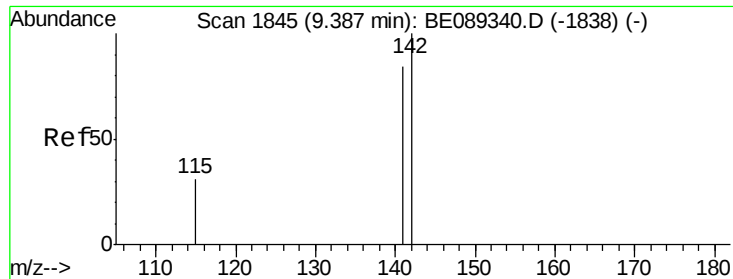


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#5

2-Methylnaphthalene

Concen: 0.07 ng

RT: 9.39 min Scan# 1844

Delta R.T. 0.00 min

Lab File: BE089346.D

Acq: 8 Jan 2015 1:25

Instrument :

BNA_E

ClientSampleId :

LOD-WATER2015-01

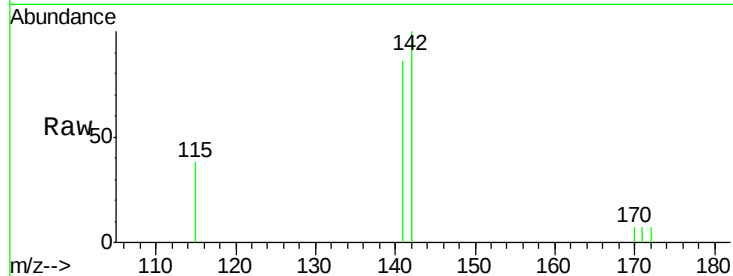
Tgt Ion:142 Resp: 745

Ion Ratio Lower Upper

142 100

141 85.9 66.3 99.5

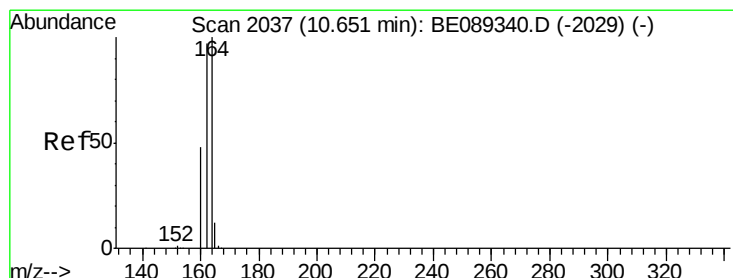
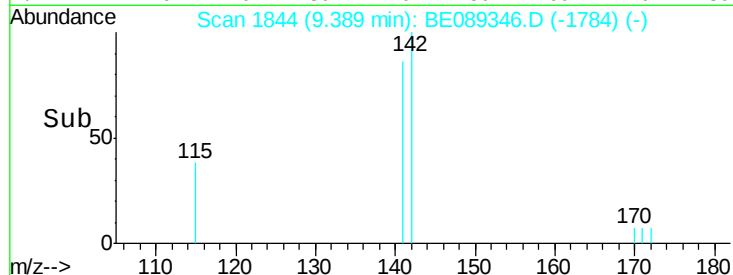
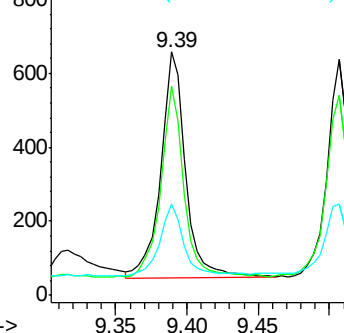
115 37.7 25.2 37.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#6

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.65 min Scan# 2035

Delta R.T. -0.00 min

Lab File: BE089346.D

Acq: 8 Jan 2015 1:25

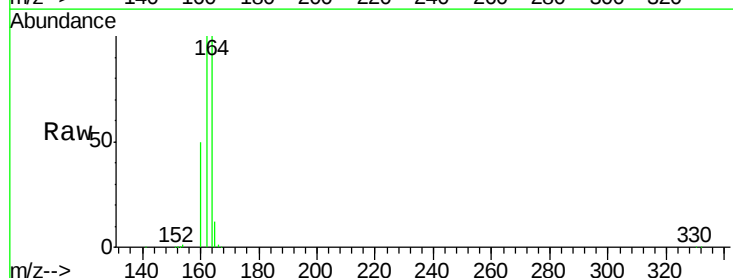
Tgt Ion:164 Resp: 34049

Ion Ratio Lower Upper

164 100

162 99.8 77.4 116.2

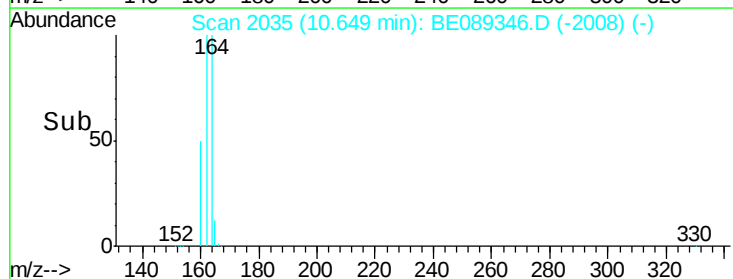
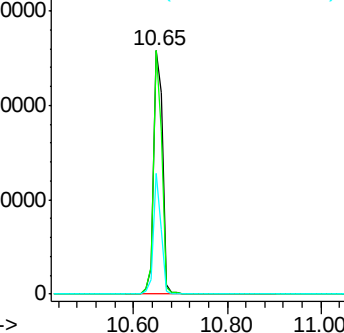
160 49.6 38.2 57.4

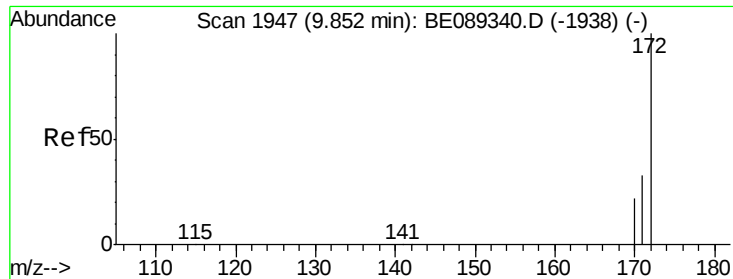


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 6.45 ng

RT: 9.85 min Scan# 1946

Delta R.T. 0.00 min

Lab File: BE089346.D

Acq: 8 Jan 2015 1:25

Instrument :

BNA_E

ClientSampleId :

LOD-WATER2015-01

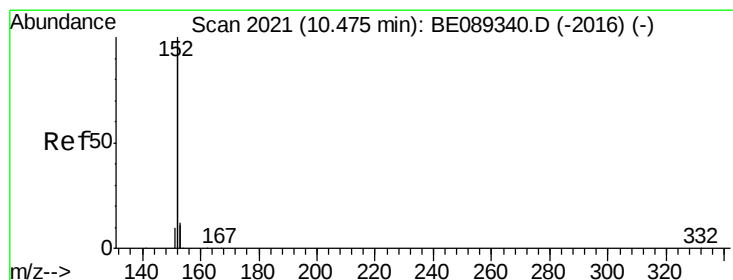
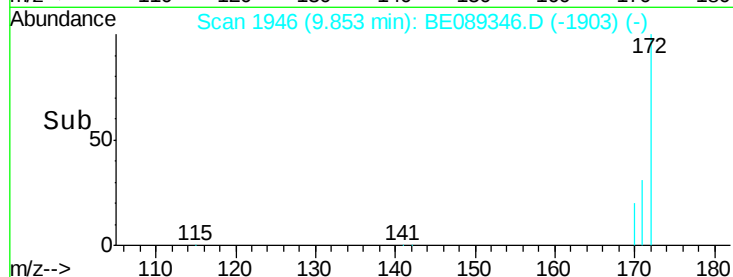
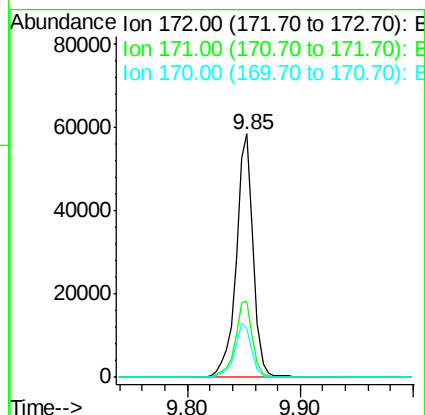
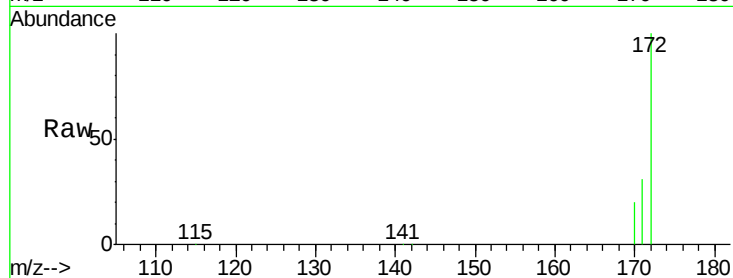
Tgt Ion:172 Resp: 59885

Ion Ratio Lower Upper

172 100

171 31.0 26.4 39.6

170 20.3 18.0 27.0



#8

Acenaphthylene

Concen: 0.07 ng

RT: 10.48 min Scan# 2020

Delta R.T. 0.01 min

Lab File: BE089346.D

Acq: 8 Jan 2015 1:25

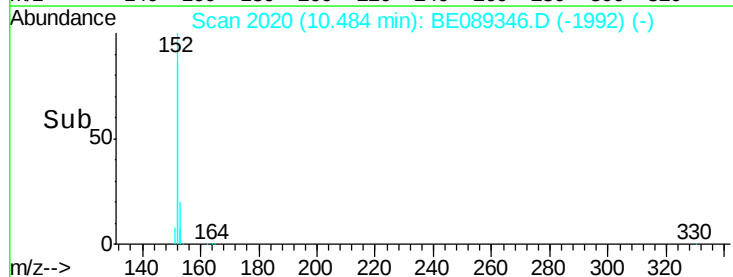
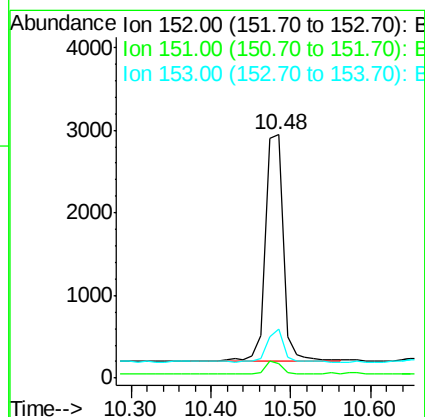
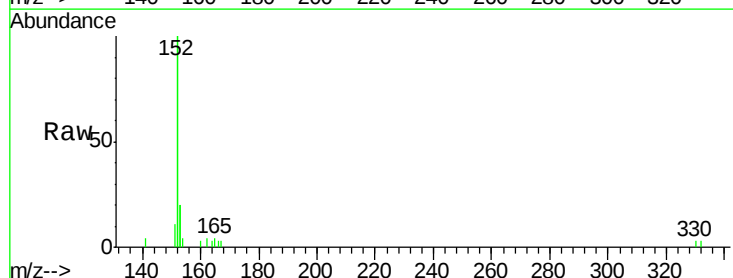
Tgt Ion:152 Resp: 4227

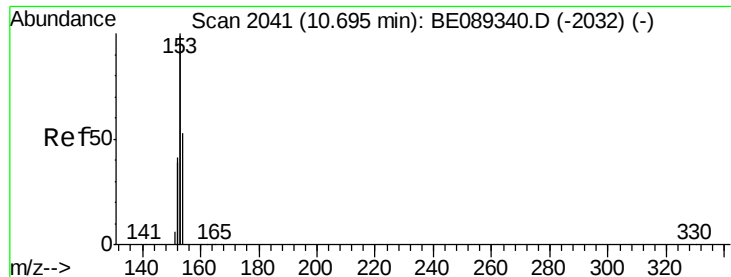
Ion Ratio Lower Upper

152 100

151 5.7 4.1 6.1

153 20.3 9.8 14.6#





#9

Acenaphthene

Concen: 0.09 ng

RT: 10.69 min Scan# 2039

Delta R.T. -0.00 min

Lab File: BE089346.D

Acq: 8 Jan 2015 1:25

Instrument :

BNA_E

ClientSampleId :

LOD-WATER2015-01

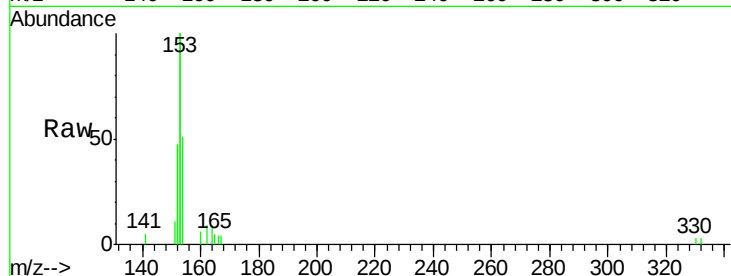
Tgt Ion:154 Resp: 777

Ion Ratio Lower Upper

154 100

153 389.8 300.6 450.8

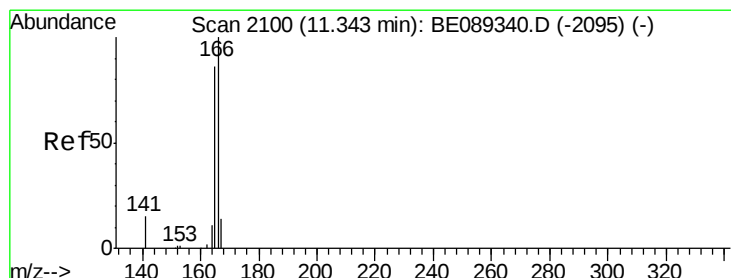
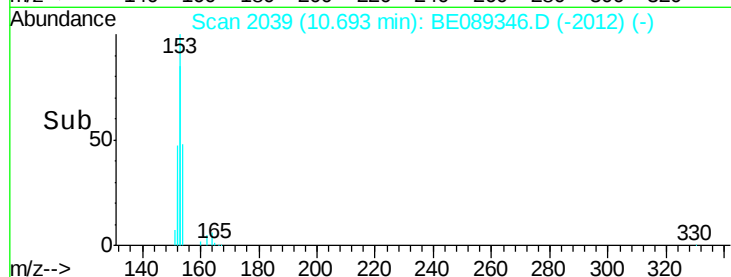
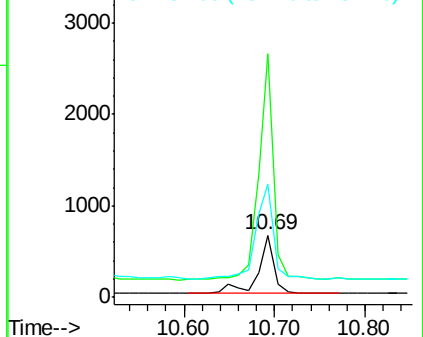
152 181.8 123.3 184.9



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#10

Fluorene

Concen: 0.07 ng

RT: 11.34 min Scan# 2098

Delta R.T. -0.00 min

Lab File: BE089346.D

Acq: 8 Jan 2015 1:25

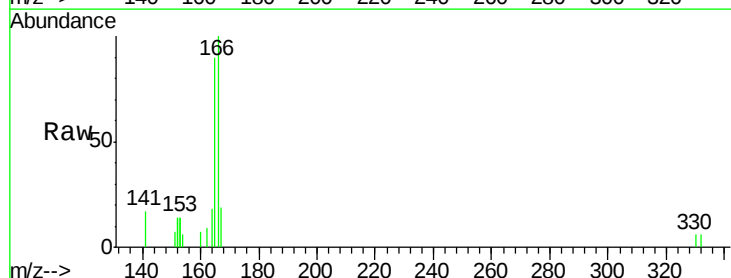
Tgt Ion:166 Resp: 722

Ion Ratio Lower Upper

166 100

165 90.6 72.1 108.1

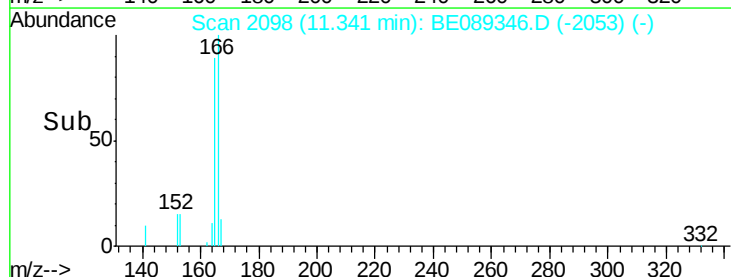
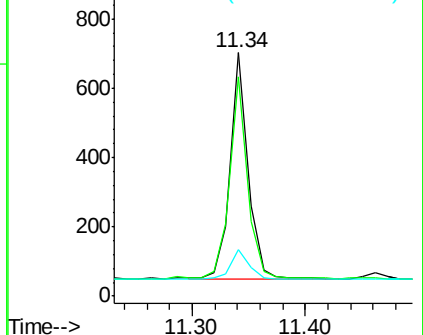
167 14.3 11.0 16.4

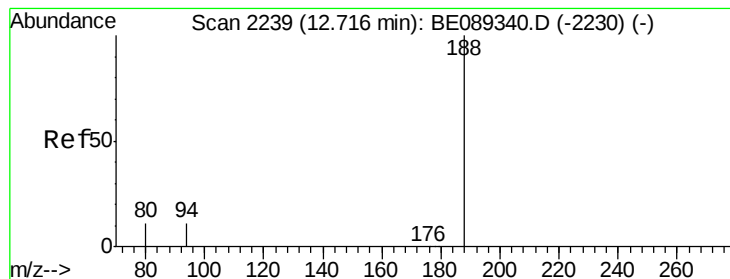


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#11

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.72 min Scan# 2238

Delta R.T. 0.00 min

Lab File: BE089346.D

Acq: 8 Jan 2015 1:25

Instrument :

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LOD-WATER2015-01

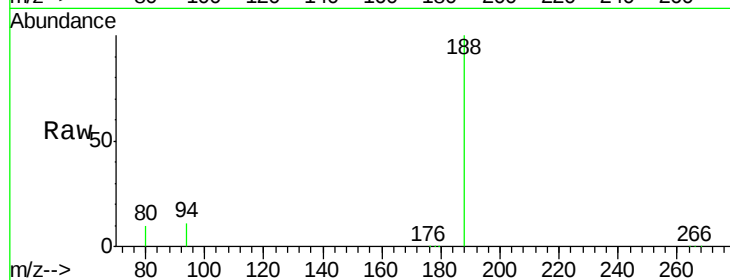
Tgt Ion:188 Resp: 51426

Ion Ratio Lower Upper

188 100

94 11.2 11.0 12.2

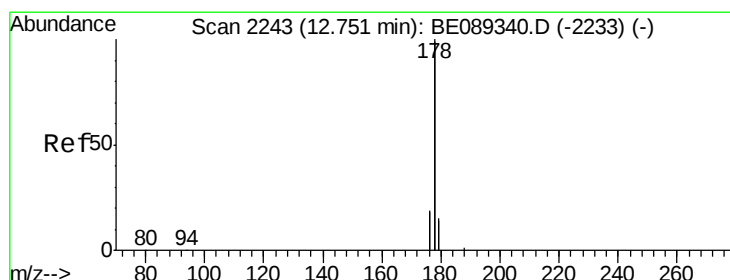
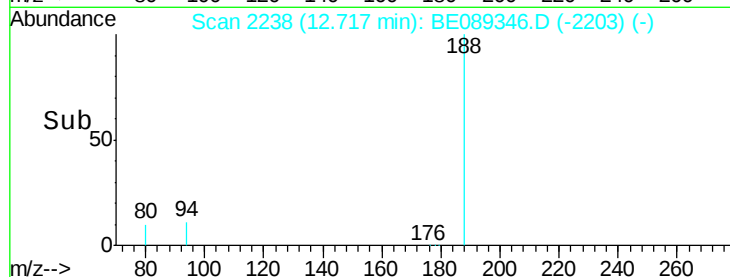
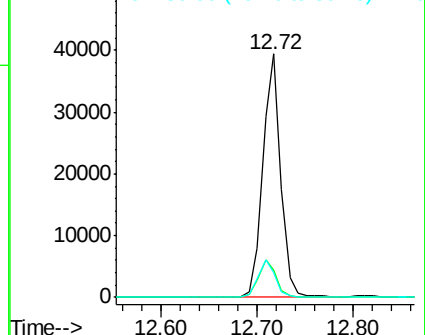
80 10.0 10.1 11.1#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#12

Phenanthrene

Concen: 0.08 ng

RT: 12.75 min Scan# 2242

Delta R.T. 0.00 min

Lab File: BE089346.D

Acq: 8 Jan 2015 1:25

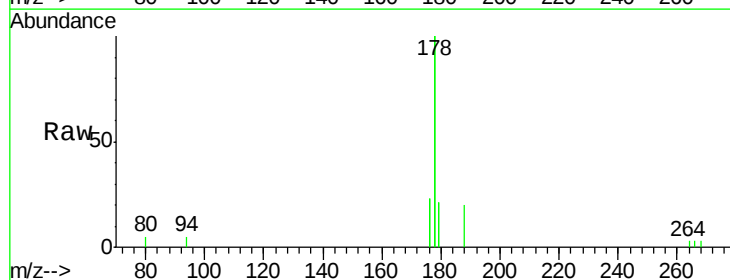
Tgt Ion:178 Resp: 4230

Ion Ratio Lower Upper

178 100

176 22.5 15.1 22.7

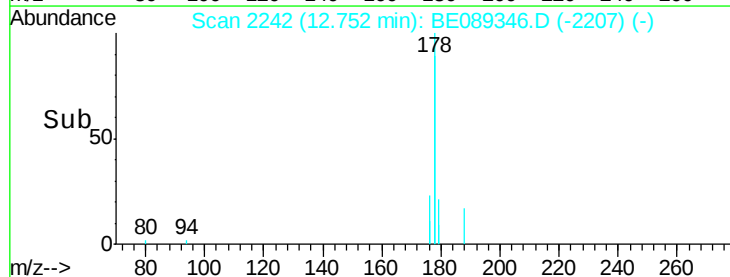
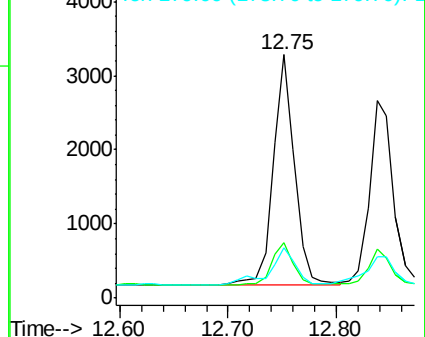
179 20.5 12.2 18.2#

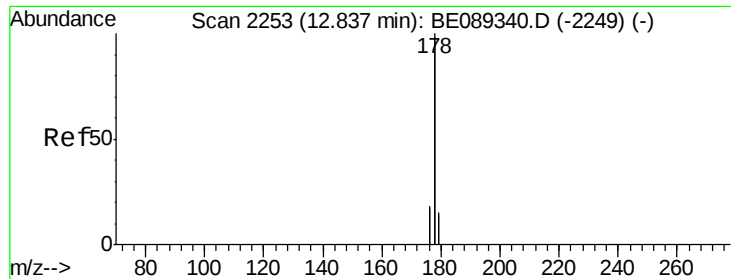


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#13

Anthracene

Concen: 0.07 ng

RT: 12.84 min Scan# 2252

Delta R.T. 0.00 min

Lab File: BE089346.D

Acq: 8 Jan 2015 1:25

Instrument :

BNA_E

ClientSampleId :

LOD-WATER2015-01

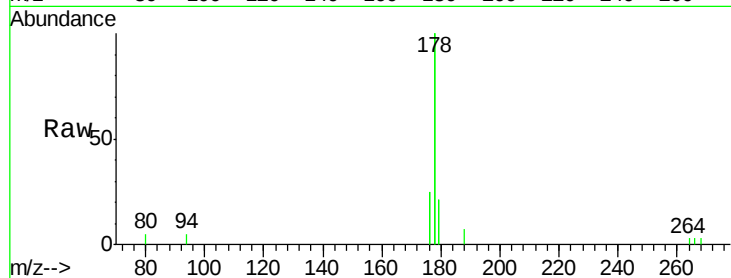
Tgt Ion:178 Resp: 3846

Ion Ratio Lower Upper

178 100

176 25.2 14.7 22.1#

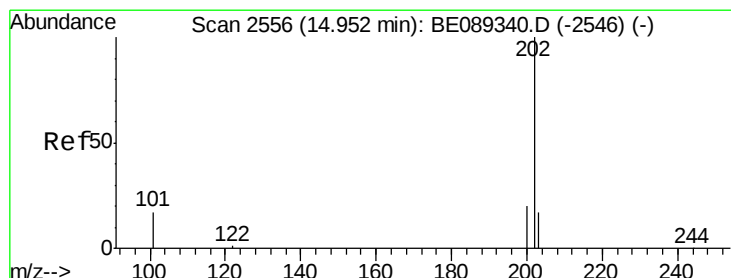
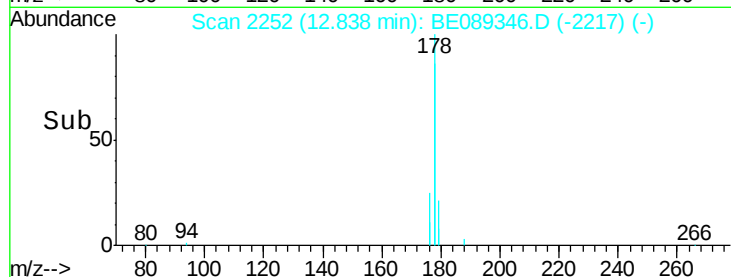
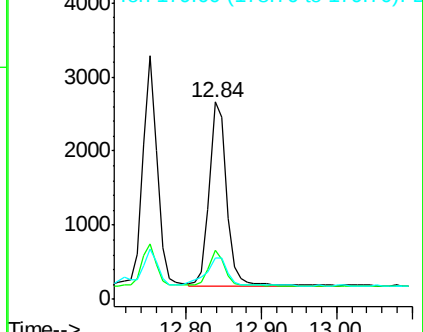
179 21.2 12.0 18.0#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#14

Fluoranthene

Concen: 0.07 ng

RT: 14.96 min Scan# 2557

Delta R.T. 0.01 min

Lab File: BE089346.D

Acq: 8 Jan 2015 1:25

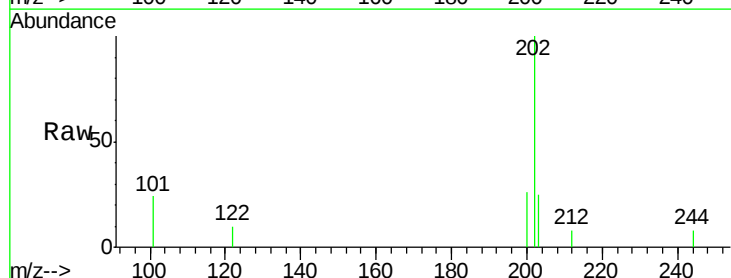
Tgt Ion:202 Resp: 887

Ion Ratio Lower Upper

202 100

101 23.9 0.0 37.9

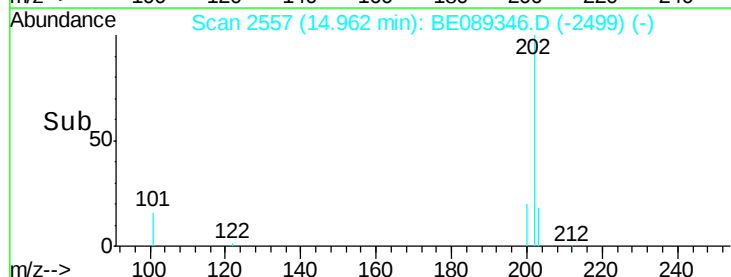
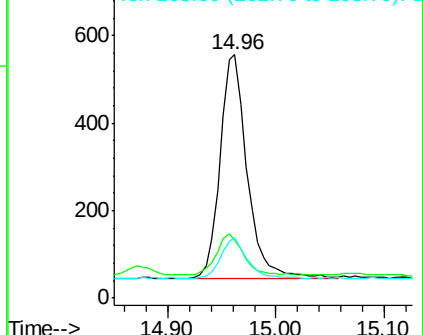
203 24.6 0.0 37.5

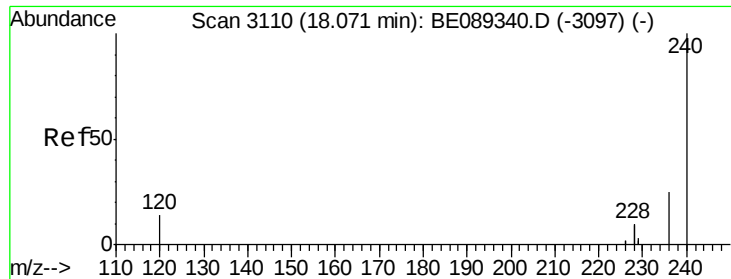


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#15

Chrysene-d12

Concen: 5.00 ng

RT: 18.07 min Scan# 3109

Delta R.T. -0.00 min

Lab File: BE089346.D

Acq: 8 Jan 2015 1:25

Instrument :

BNA_E

ClientSampleId :

LOD-WATER2015-01

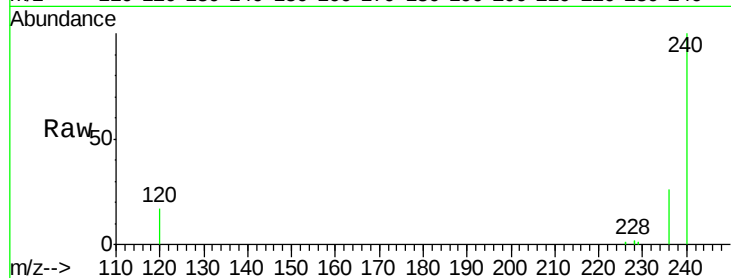
Tgt Ion:240 Resp: 36782

Ion Ratio Lower Upper

240 100

120 16.8 11.8 17.6

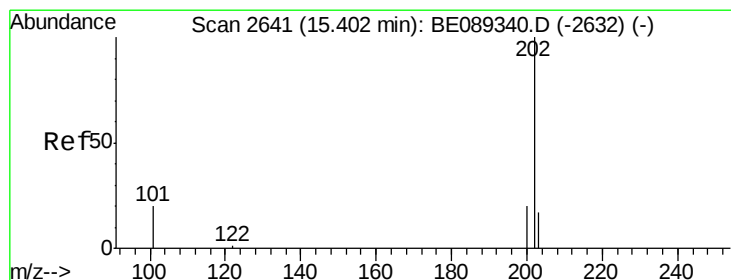
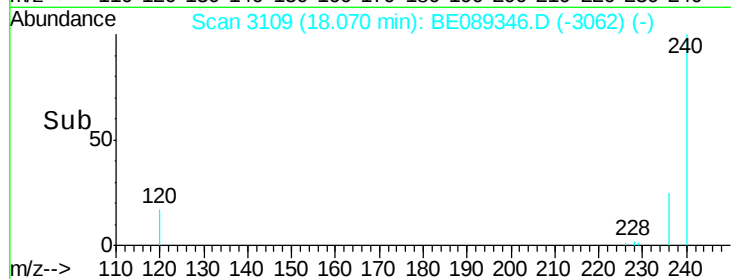
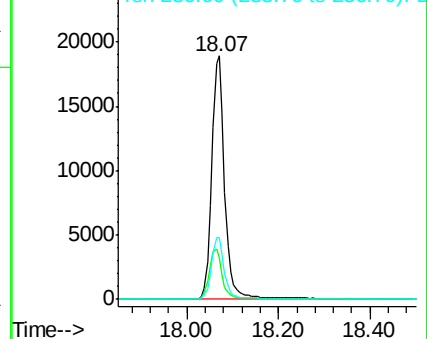
236 25.5 20.0 30.0



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#16

Pyrene

Concen: 0.08 ng

RT: 15.41 min Scan# 2641

Delta R.T. 0.00 min

Lab File: BE089346.D

Acq: 8 Jan 2015 1:25

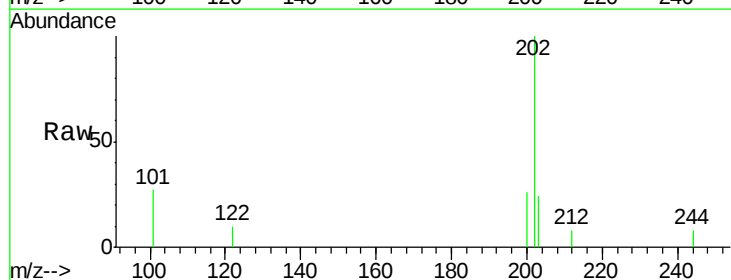
Tgt Ion:202 Resp: 919

Ion Ratio Lower Upper

202 100

200 26.2 16.8 25.2#

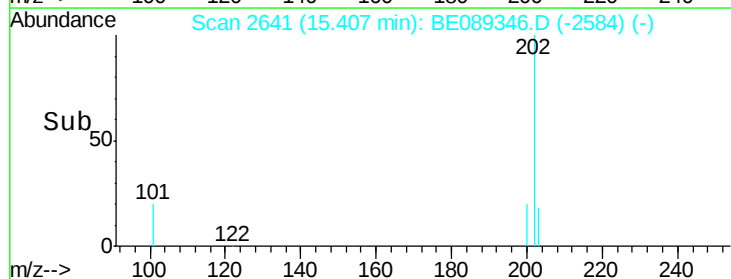
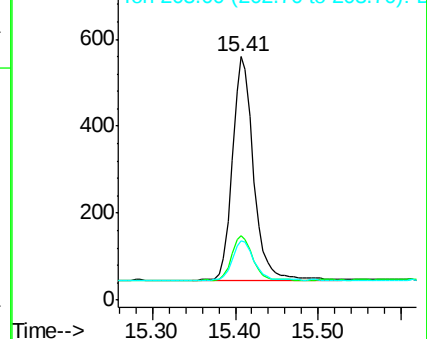
203 24.5 14.0 21.0#

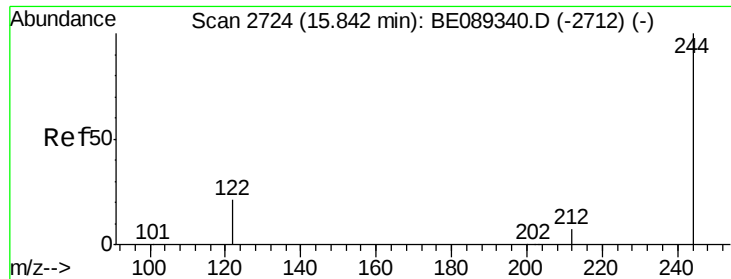


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

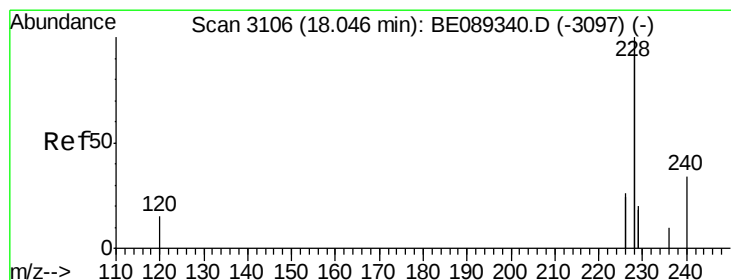
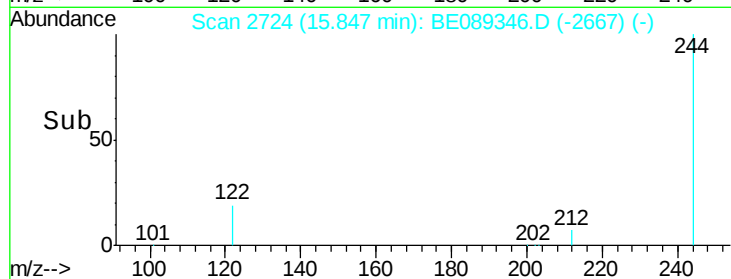
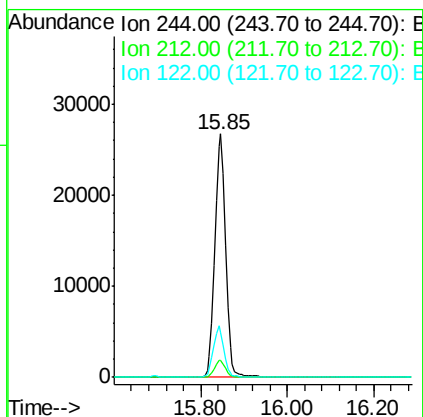
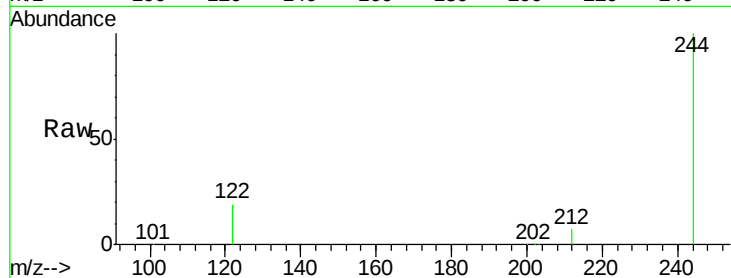




#17
 Terphenyl-d14
 Concen: 7.08 ng
 RT: 15.85 min Scan# 2724
 Delta R.T. 0.00 min
 Lab File: BE089346.D
 Acq: 8 Jan 2015 1:25

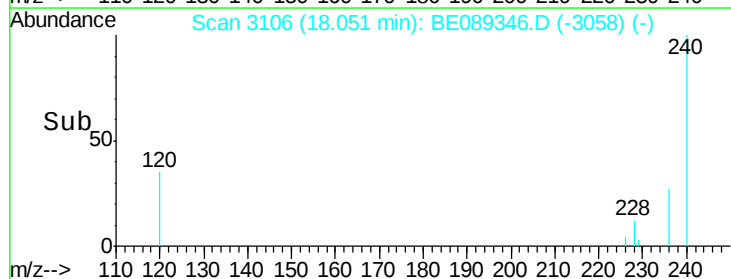
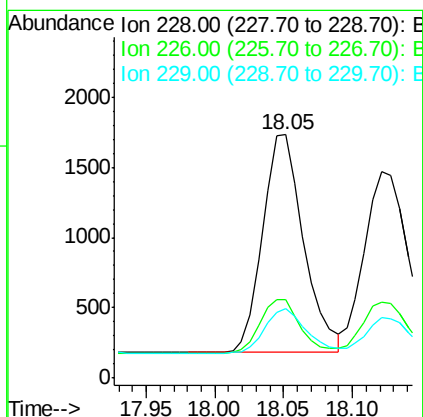
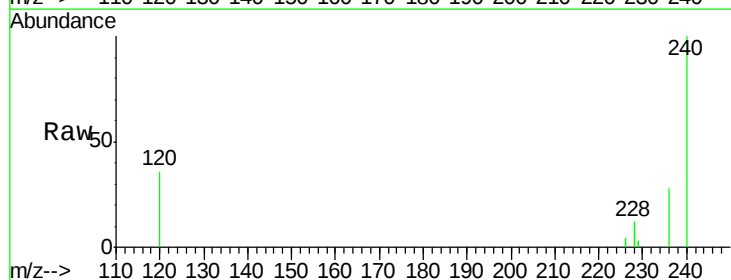
Instrument :
 BNA_E
 ClientSampleId :
 LOD-WATER2015-01

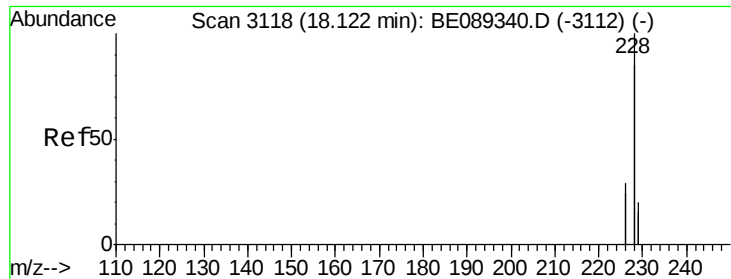
Tgt Ion: 244 Resp: 46138
 Ion Ratio Lower Upper
 244 100
 212 6.9 6.3 9.5
 122 18.8 17.7 26.5



#18
 Benzo(a)anthracene
 Concen: 0.09 ng
 RT: 18.05 min Scan# 3106
 Delta R.T. 0.01 min
 Lab File: BE089346.D
 Acq: 8 Jan 2015 1:25

Tgt Ion: 228 Resp: 3204
 Ion Ratio Lower Upper
 228 100
 226 32.1 21.0 31.6#
 229 28.6 16.0 24.0#





#19

Chrysene

Concen: 0.08 ng

RT: 18.12 min Scan# 3117

Delta R.T. -0.00 min

Lab File: BE089346.D

Acq: 8 Jan 2015 1:25

Instrument :

BNA_E

ClientSampleId :

LOD-WATER2015-01

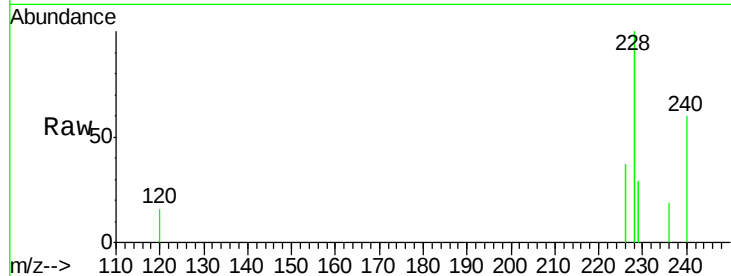
Tgt Ion:228 Resp: 3006

Ion Ratio Lower Upper

228 100

226 37.0 23.5 35.3#

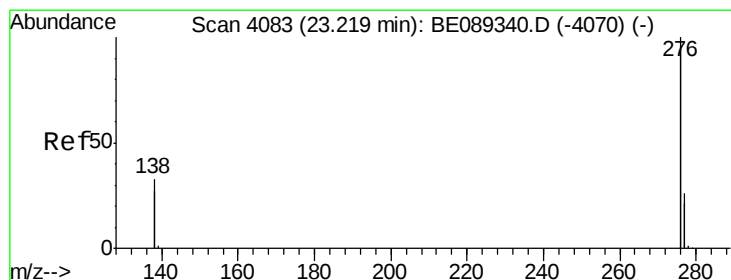
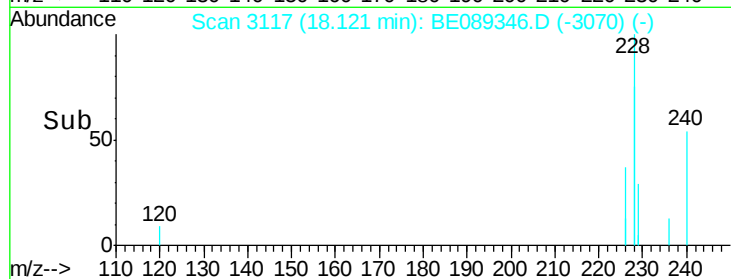
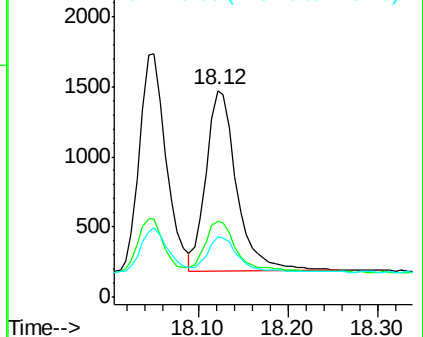
229 29.3 16.1 24.1#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#20

Indeno(1,2,3-cd)pyrene

Concen: 0.07 ng

RT: 23.24 min Scan# 4085

Delta R.T. 0.02 min

Lab File: BE089346.D

Acq: 8 Jan 2015 1:25

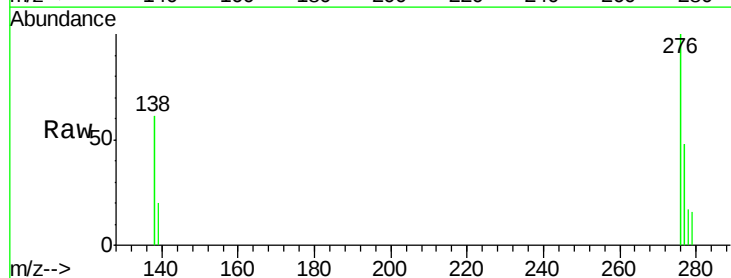
Tgt Ion:276 Resp: 2502

Ion Ratio Lower Upper

276 100

138 14.8 23.8 35.8#

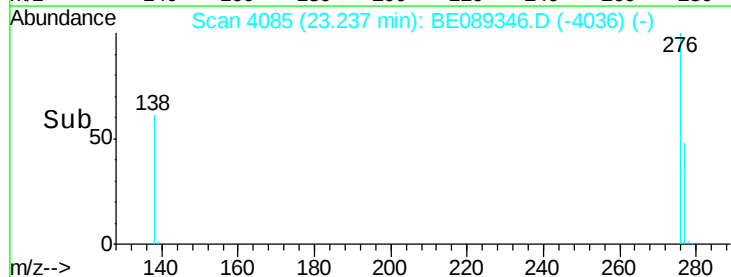
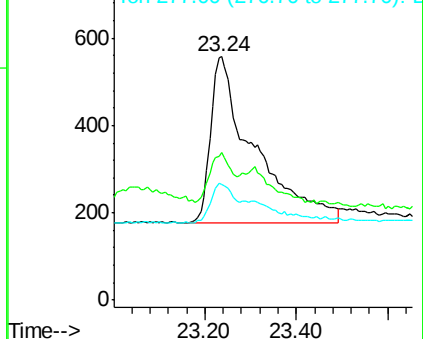
277 13.1 18.2 27.4#

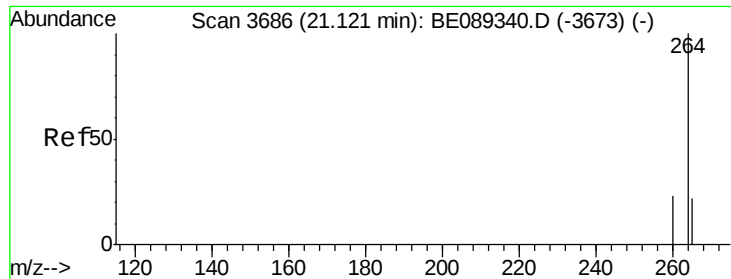


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



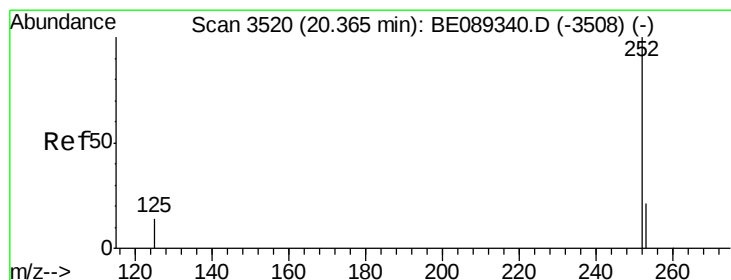
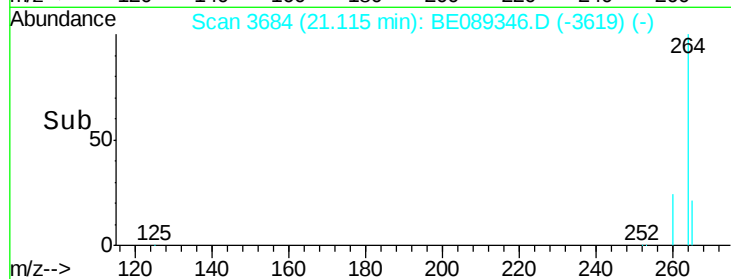
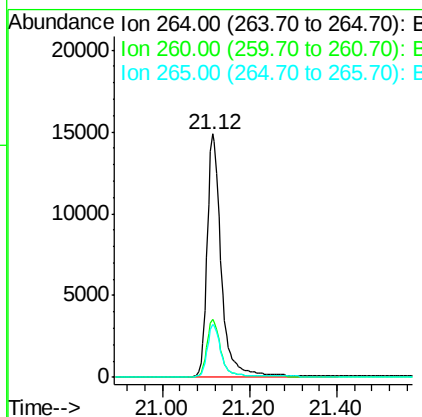
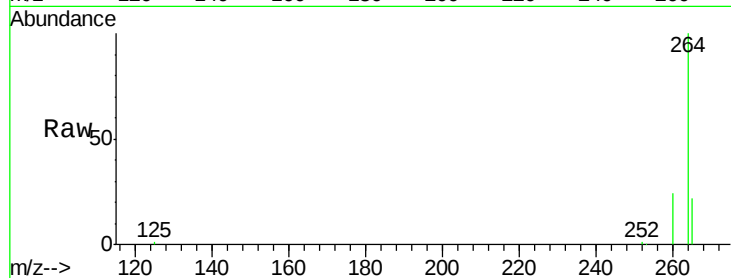


#21
Perylene-d12
Concen: 5.00 ng
RT: 21.12 min Scan# 3684
Delta R.T. -0.01 min
Lab File: BE089346.D
Acq: 8 Jan 2015 1:25

Instrument :
BNA_E
ClientSampleId :
LOD-WATER2015-01

Tgt Ion: 264 Resp: 33107

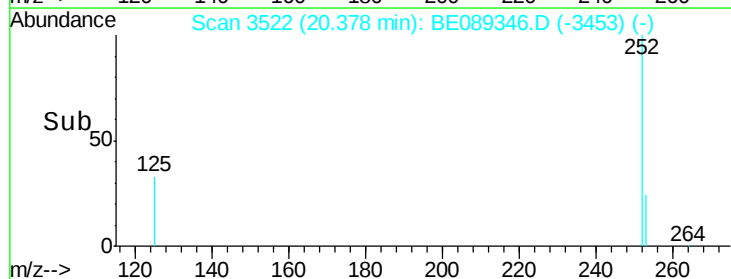
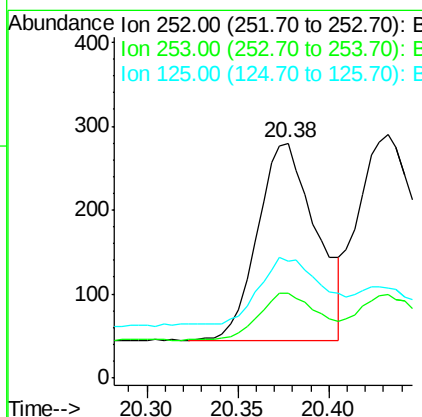
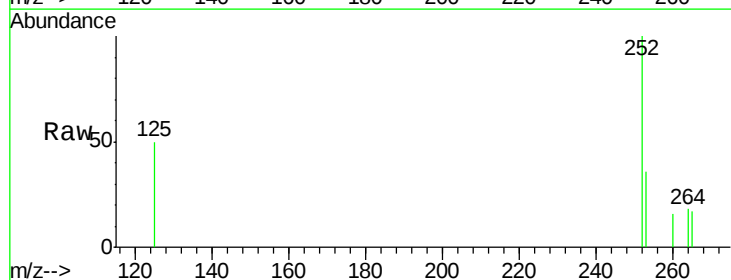
Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.9	28.3
265	21.7	17.4	26.2

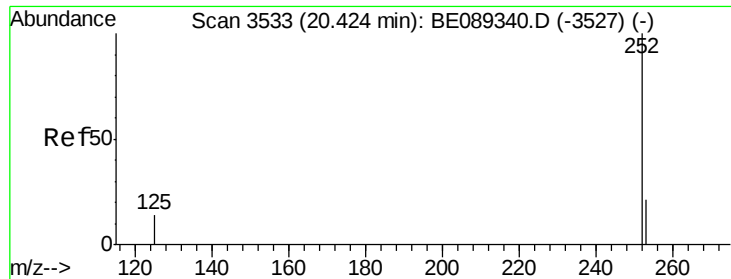


#22
Benzo(b)fluoranthene
Concen: 0.07 ng
RT: 20.38 min Scan# 3522
Delta R.T. 0.01 min
Lab File: BE089346.D
Acq: 8 Jan 2015 1:25

Tgt Ion: 252 Resp: 527

Ion	Ratio	Lower	Upper
252	100		
253	36.1	17.8	26.6#
125	49.6	12.6	18.8#





#23

Benzo(k)fluoranthene

Concen: 0.08 ng

RT: 20.43 min Scan# 3534

Delta R.T. 0.01 min

Lab File: BE089346.D

Acq: 8 Jan 2015 1:25

Instrument :

BNA_E

ClientSampleId :

LOD-WATER2015-01

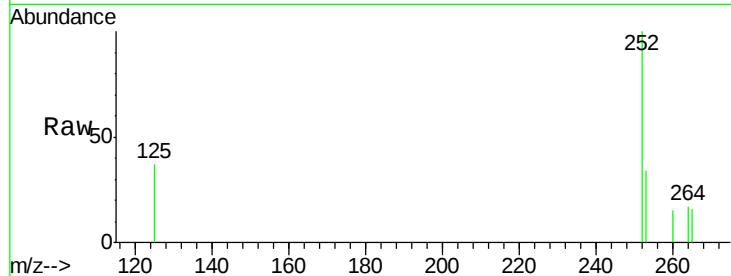
Tgt Ion:252 Resp: 735

Ion Ratio Lower Upper

252 100

253 34.1 18.0 27.0#

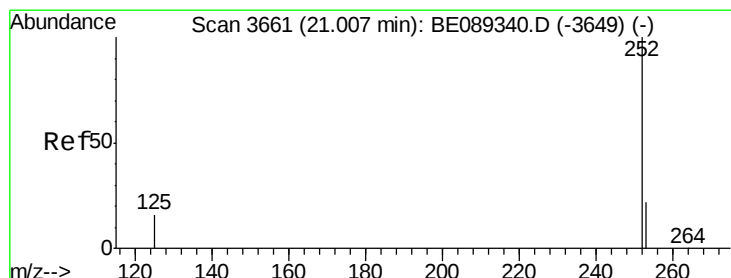
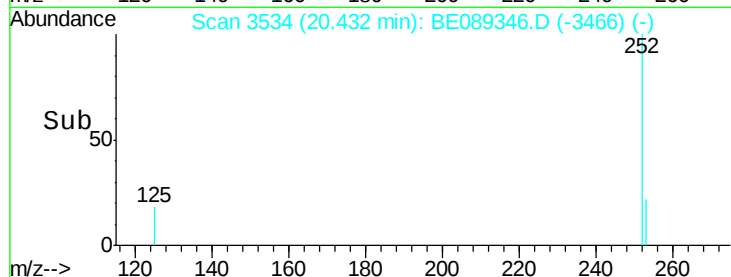
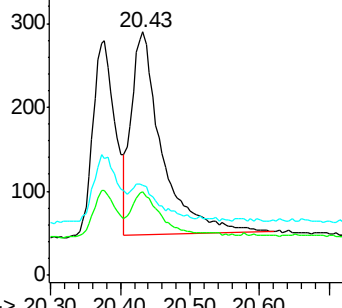
125 36.9 12.4 18.6#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#24

Benzo(a)pyrene

Concen: 0.07 ng

RT: 21.01 min Scan# 3661

Delta R.T. 0.00 min

Lab File: BE089346.D

Acq: 8 Jan 2015 1:25

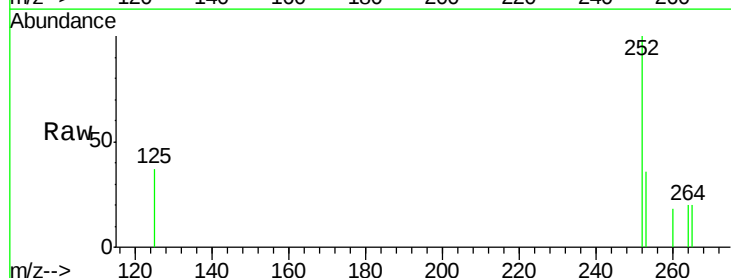
Tgt Ion:252 Resp: 532

Ion Ratio Lower Upper

252 100

253 35.6 18.3 27.5#

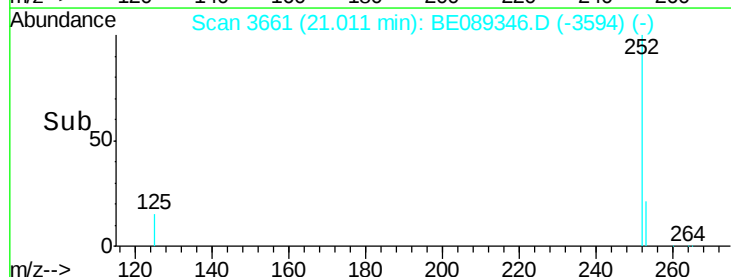
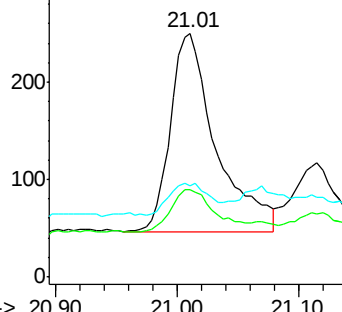
125 37.2 13.8 20.8#

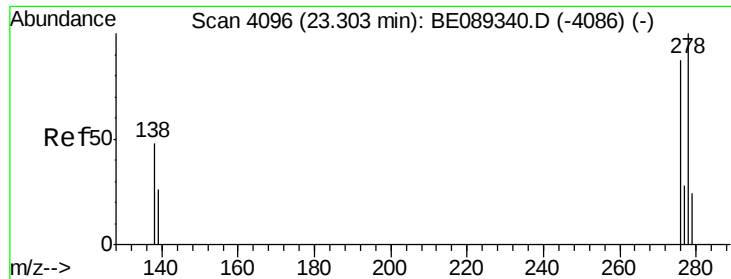


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

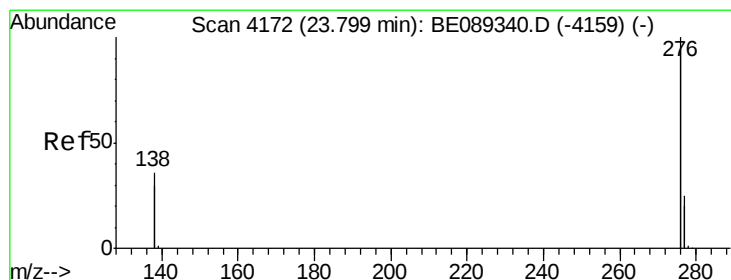
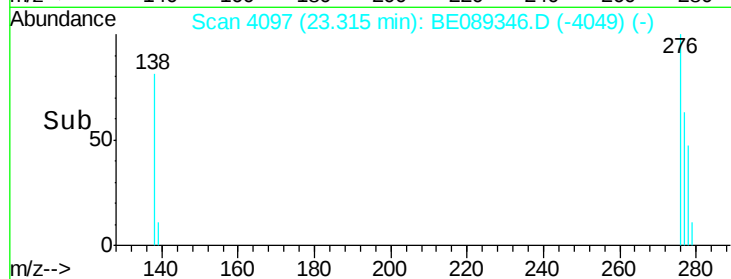
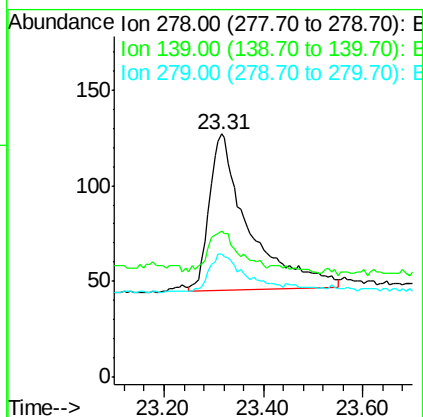
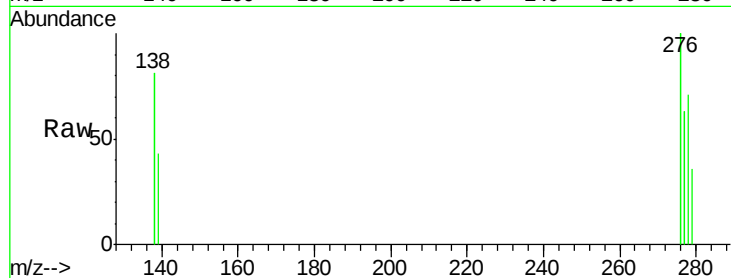




#25
Dibenzo(a,h)anthracene
Concen: 0.07 ng
RT: 23.31 min Scan# 4097
Delta R.T. 0.01 min
Lab File: BE089346.D
Acq: 8 Jan 2015 1:25

Instrument :
BNA_E
ClientSampleId :
LOD-WATER2015-01

Tgt Ion: 278 Resp: 449
Ion Ratio Lower Upper
278 100
139 59.8 22.9 34.3#
279 50.4 20.8 31.2#



#26
Benzo(g,h,i)perylene
Concen: 0.07 ng
RT: 23.82 min Scan# 4174
Delta R.T. 0.02 min
Lab File: BE089346.D
Acq: 8 Jan 2015 1:25

Tgt Ion: 276 Resp: 2318
Ion Ratio Lower Upper
276 100
277 43.7 20.0 30.0#
138 57.9 28.5 42.7#

