

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022415\
 Data File : BE089688.D
 Acq On : 25 Feb 2015 3:59
 Operator : TP/JJ
 Sample : G1353-01
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MW-2

Quant Time: Feb 25 06:27:17 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE022415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 25 04:05:13 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	45820	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	200154	5.00	ng	0.00
8) Acenaphthene-d10	16.41	164	89907	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	151694	5.00	ng	0.00
19) Chrysene-d12	23.66	240	109124	5.00	ng	0.00
25) Perylene-d12	25.34	264	86553	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.60	82	69153	5.88	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	162253	8.11	ng	0.00
21) Terphenyl-d14	22.30	244	143467	11.21	ng	0.00

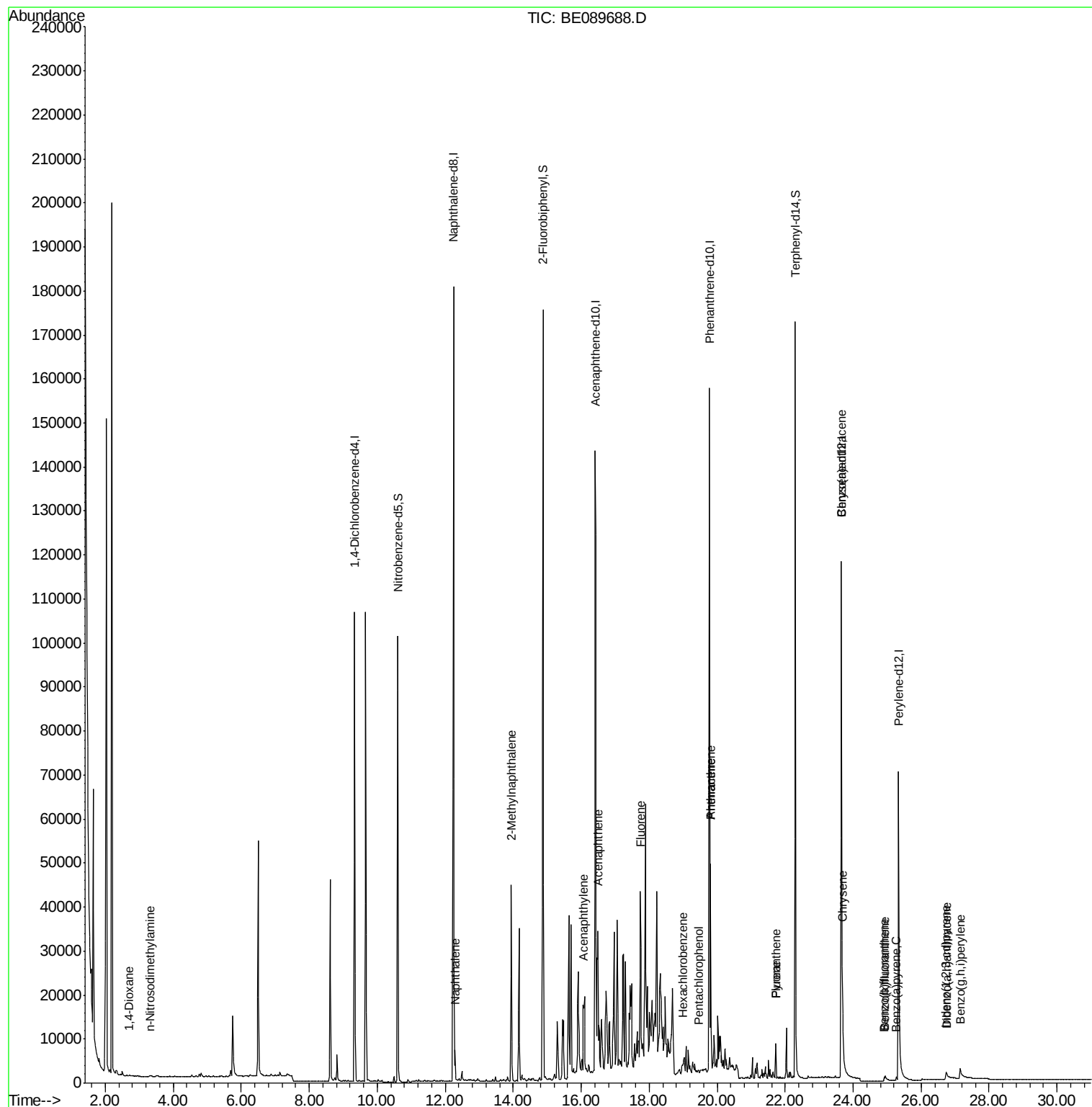
Target Compounds						Qvalue
2) 1,4-Dioxane	2.71	88	197	0.03	ng	# 71
3) n-Nitrosodimethylamine	3.31	42	15	0.07	ng	# 1
6) Naphthalene	12.28	128	8031	0.21	ng	# 92
7) 2-Methylnaphthalene	13.94	142	28852	1.31	ng	95
10) Acenaphthylene	16.06	152	28545	0.22	ng	# 75
11) Acenaphthene	16.49	154	6233	0.30	ng	# 24
12) Fluorene	17.74	166	14804	0.65	ng	# 75
14) Hexachlorobenzene	19.00	284	656	0.17	ng	# 1
15) Pentachlorophenol	19.44	266	278	0.80	ng	94
16) Phenanthrene	19.81	178	42763	1.32	ng	99
17) Anthracene	19.81	178	42763	1.55	ng	97
18) Fluoranthene	21.72	202	6176	0.23	ng	96
20) Pyrene	21.72	202	6105	0.23	ng	98
22) Benzo(a)anthracene	23.64	228	14122	0.20	ng	93
23) Chrysene	23.68	228	21442	0.22	ng	95
24) Indeno(1,2,3-cd)pyrene	26.73	276	5413	0.37	ng	# 74
26) Benzo(b)fluoranthene	24.91	252	1013	0.40	ng	# 76
27) Benzo(k)fluoranthene	24.94	252	3314	0.28	ng	# 79
28) Benzo(a)pyrene	25.27	252	1123	0.21	ng	# 77
29) Dibenzo(a,h)anthracene	26.77	278	729	0.38	ng	# 83
30) Benzo(g,h,i)perylene	27.15	276	6643	0.43	ng	90

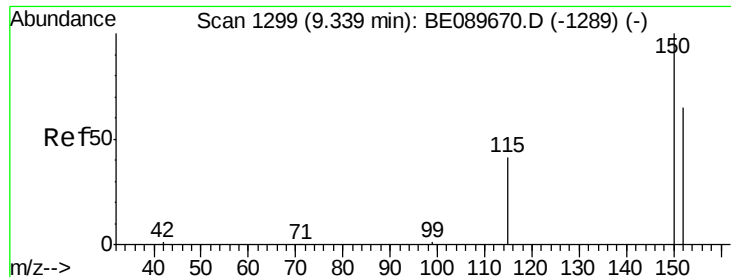
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1299

Delta R.T. -0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 3:59

Instrument :

BNA_E

ClientSampleId :

MW-2

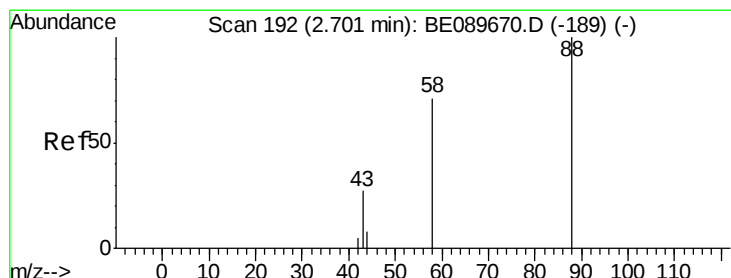
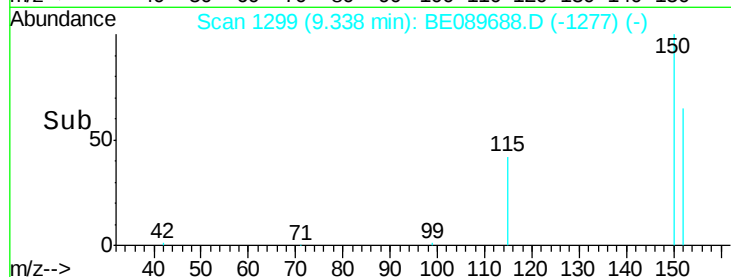
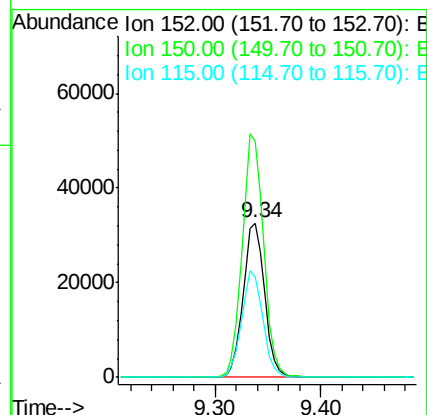
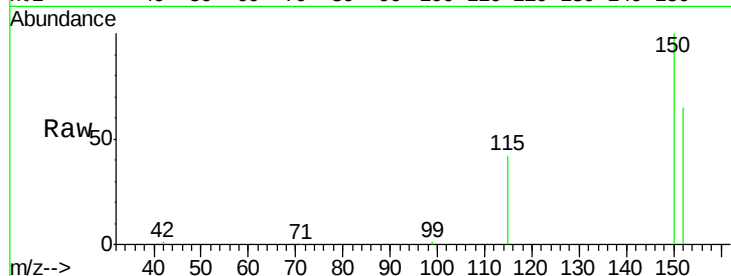
Tgt Ion: 152 Resp: 45820

Ion Ratio Lower Upper

152 100

150 153.1 123.4 185.0

115 64.9 50.8 76.2



#2

1,4-Dioxane

Concen: 0.03 ng

RT: 2.71 min Scan# 194

Delta R.T. 0.01 min

Lab File: BE089688.D

Acq: 25 Feb 2015 3:59

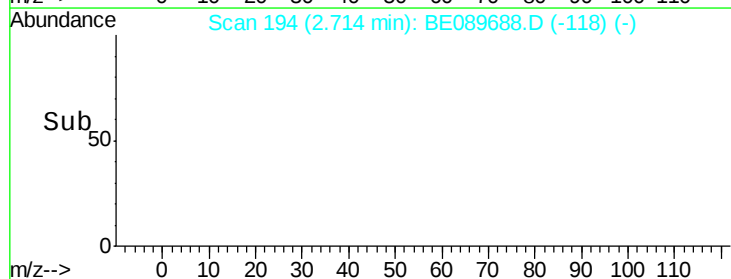
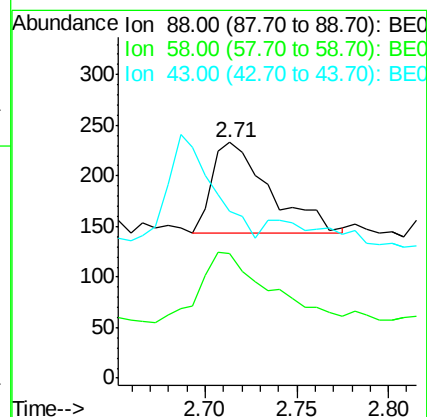
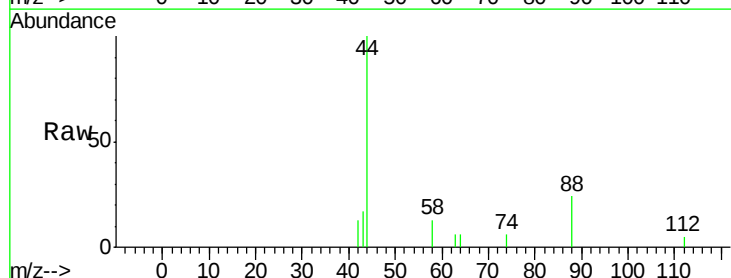
Tgt Ion: 88 Resp: 197

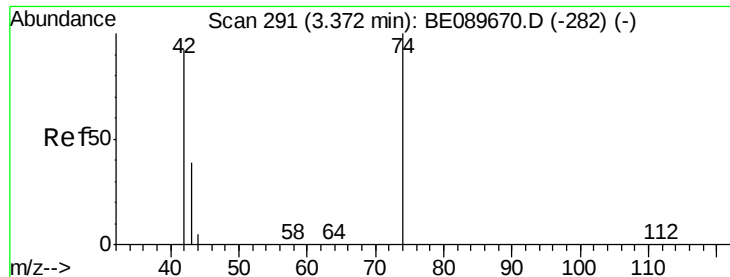
Ion Ratio Lower Upper

88 100

58 92.4 62.4 93.6

43 0.0 26.6 40.0#



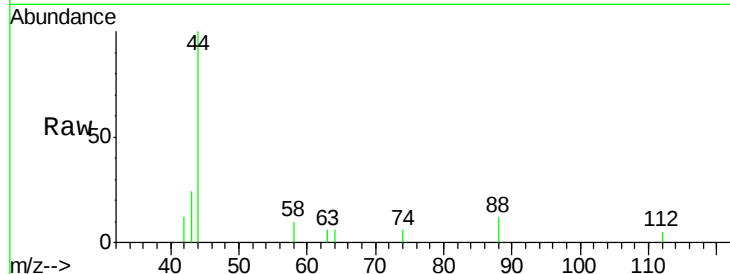


#3

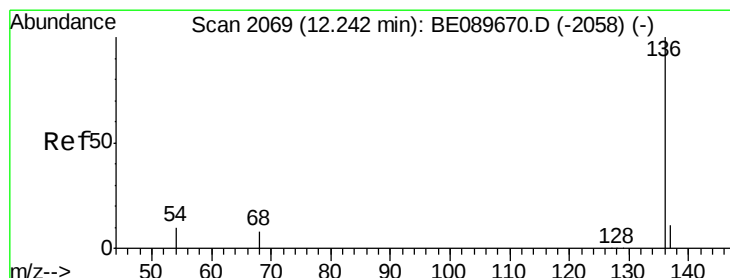
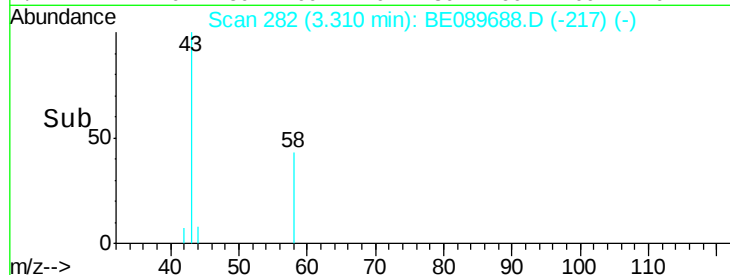
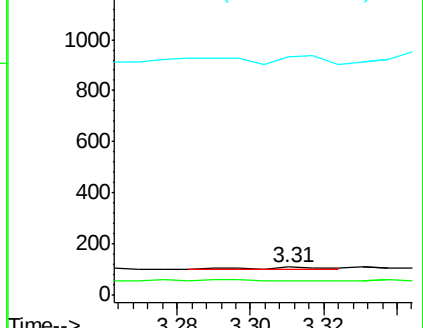
n-Nitrosodimethylamine
 Concen: 0.07 ng
 RT: 3.31 min Scan# 282
 Delta R.T. -0.06 min
 Lab File: BE089688.D
 Acq: 25 Feb 2015 3:59

Instrument :
 BNA_E
 ClientSampleId :
 MW-2

Tgt Ion: 42 Resp: 15
 Ion Ratio Lower Upper
 42 100
 74 0.0 91.1 136.7#
 44 166.7 4.7 7.1#



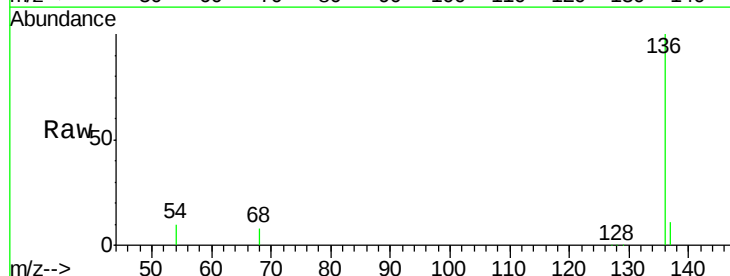
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



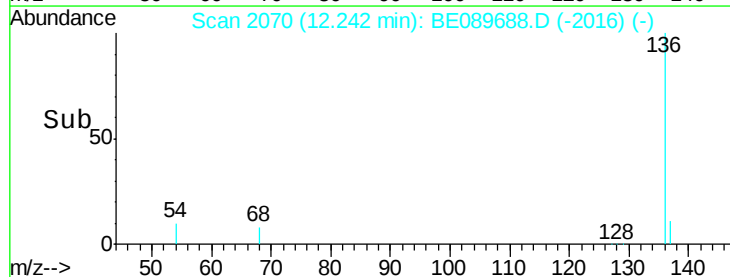
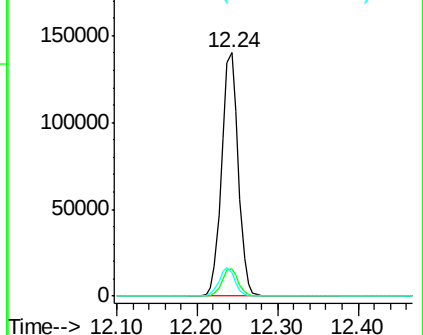
#4

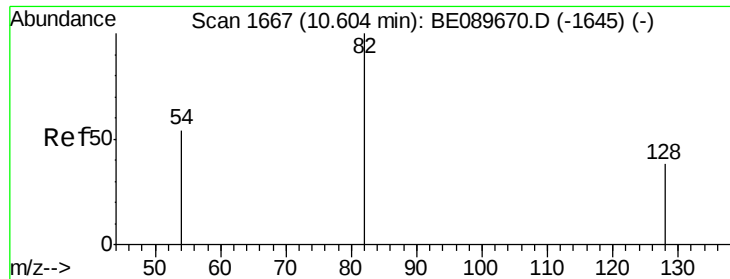
Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.24 min Scan# 2070
 Delta R.T. 0.00 min
 Lab File: BE089688.D
 Acq: 25 Feb 2015 3:59

Tgt Ion: 136 Resp: 200154
 Ion Ratio Lower Upper
 136 100
 137 11.2 8.7 13.1
 54 9.6 7.8 11.8



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





#5

Nitrobenzene-d5

Concen: 5.88 ng

RT: 10.60 min Scan# 1667

Delta R.T. -0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 3:59

Instrument :

BNA_E

ClientSampleId :

MW-2

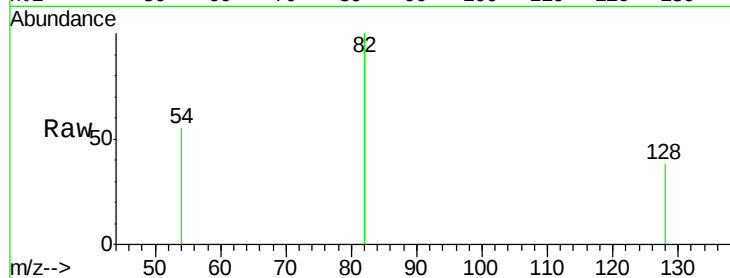
Tgt Ion: 82 Resp: 69153

Ion Ratio Lower Upper

82 100

128 37.7 30.6 46.0

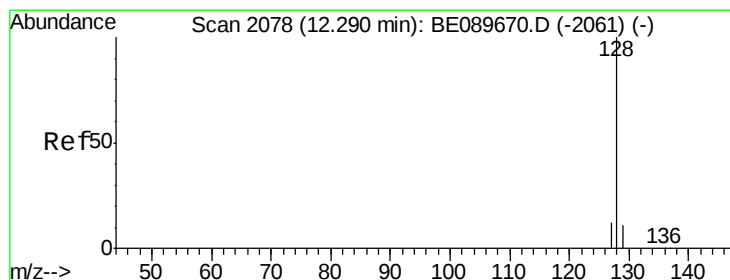
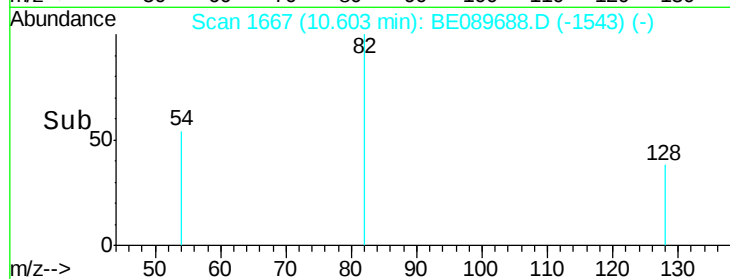
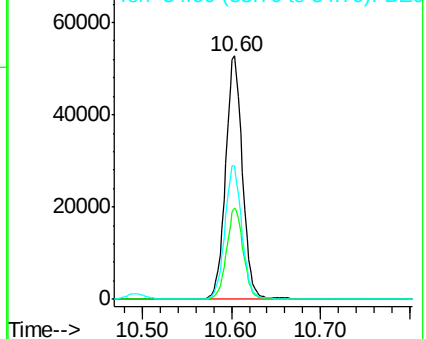
54 54.8 43.6 65.4



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



#6

Naphthalene

Concen: 0.21 ng

RT: 12.28 min Scan# 2078

Delta R.T. -0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 3:59

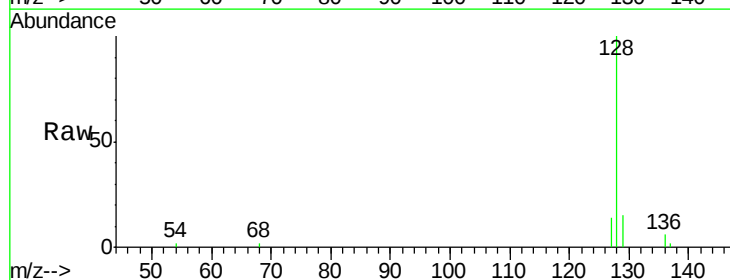
Tgt Ion: 128 Resp: 8031

Ion Ratio Lower Upper

128 100

129 15.3 8.9 13.3#

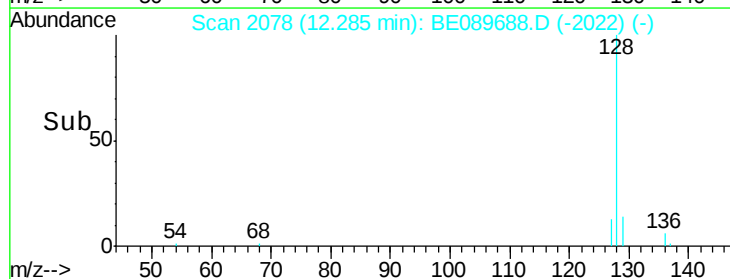
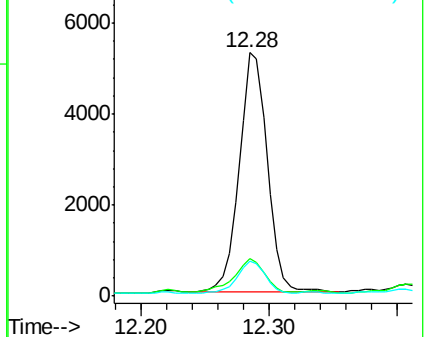
127 14.3 9.7 14.5



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





#7

2-Methylnaphthalene

Concen: 1.31 ng

RT: 13.94 min Scan# 2417

Delta R.T. -0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 3:59

Instrument :

BNA_E

ClientSampleId :

MW-2

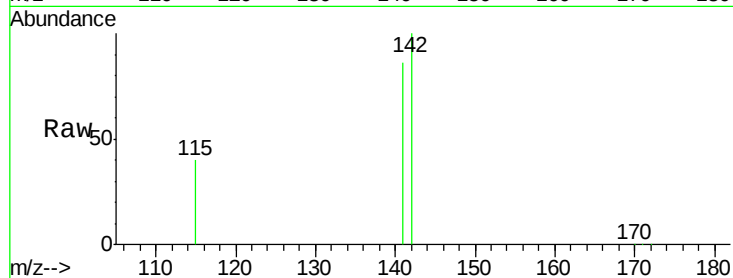
Tgt Ion:142 Resp: 28852

Ion Ratio Lower Upper

142 100

141 85.6 66.0 99.0

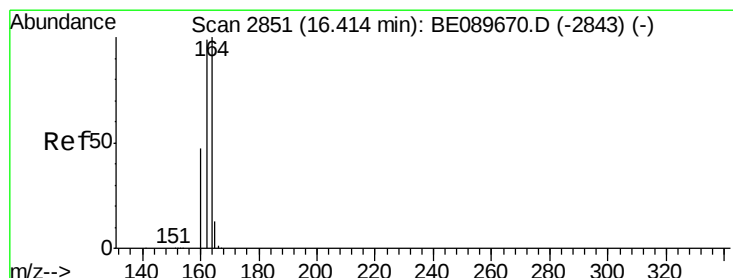
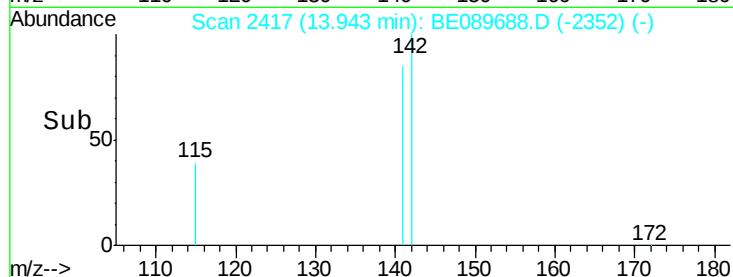
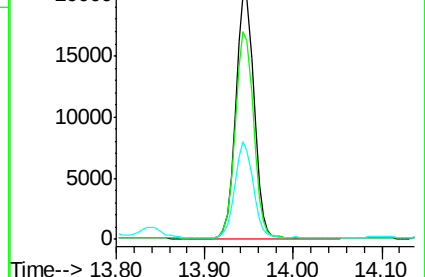
115 39.9 27.4 41.0



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



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.41 min Scan# 2852

Delta R.T. -0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 3:59

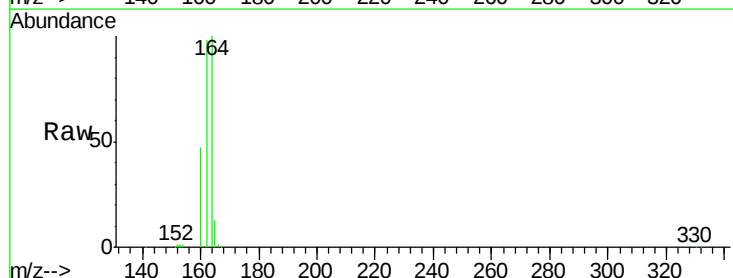
Tgt Ion:164 Resp: 89907

Ion Ratio Lower Upper

164 100

162 98.5 79.4 119.2

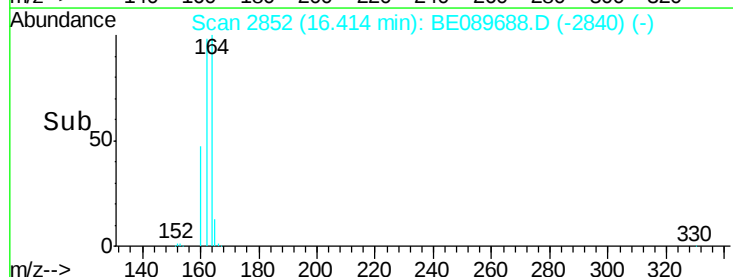
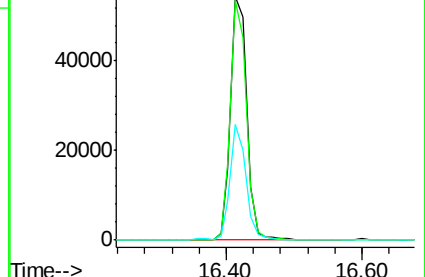
160 47.4 37.6 56.4



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





#9

2-Fluorobiphenyl

Concen: 8.11 ng

RT: 14.88 min Scan# 2622

Delta R.T. -0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 3:59

Instrument :

BNA_E

ClientSampled :

MW-2

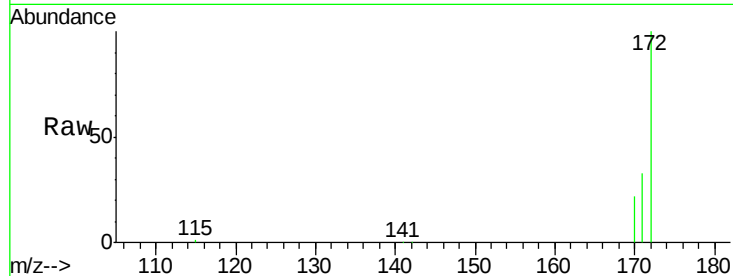
Tgt Ion:172 Resp: 162253

Ion Ratio Lower Upper

172 100

171 33.1 27.3 40.9

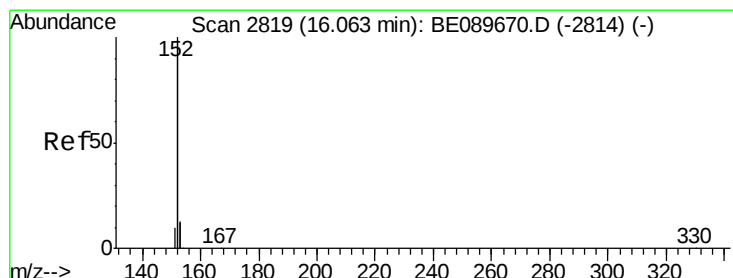
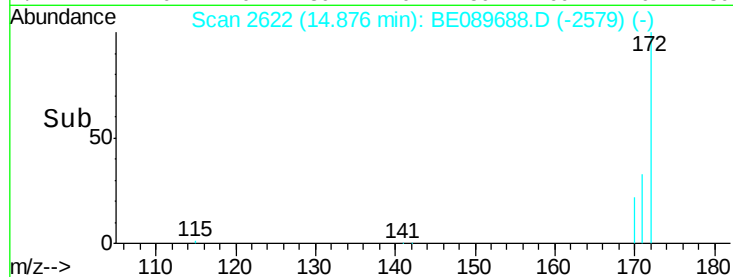
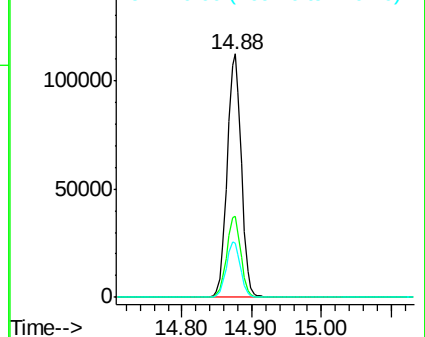
170 22.5 18.5 27.7



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#10

Acenaphthylene

Concen: 0.22 ng

RT: 16.06 min Scan# 2820

Delta R.T. -0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 3:59

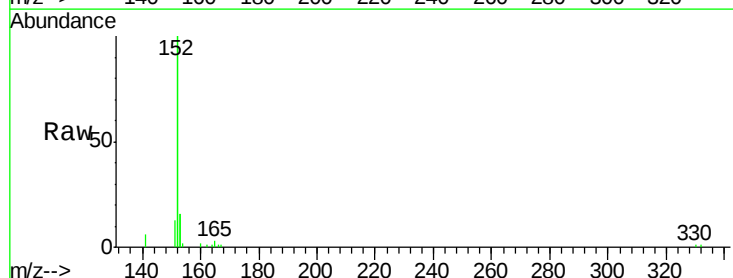
Tgt Ion:152 Resp: 28545

Ion Ratio Lower Upper

152 100

151 5.8 3.8 5.6#

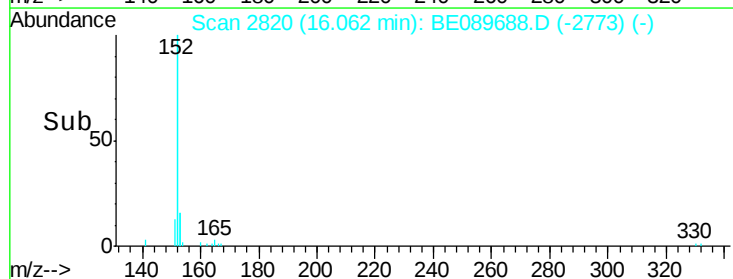
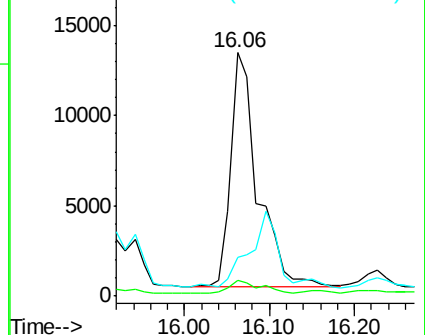
153 0.0 10.4 15.6#

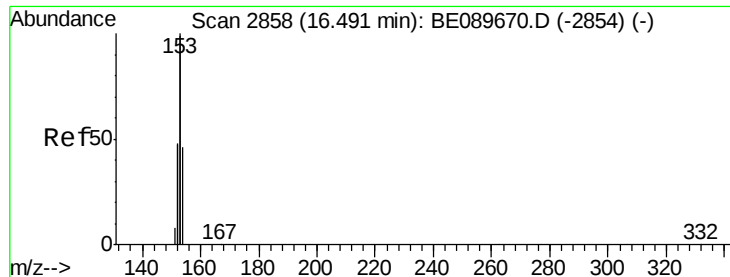


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.30 ng

RT: 16.49 min Scan# 2859

Delta R.T. -0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 3:59

Instrument :

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ClientSampleId :

MW-2

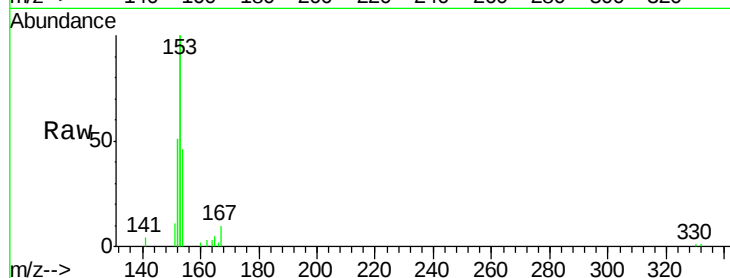
Tgt Ion:154 Resp: 6233

Ion Ratio Lower Upper

154 100

153 551.4 345.8 518.8#

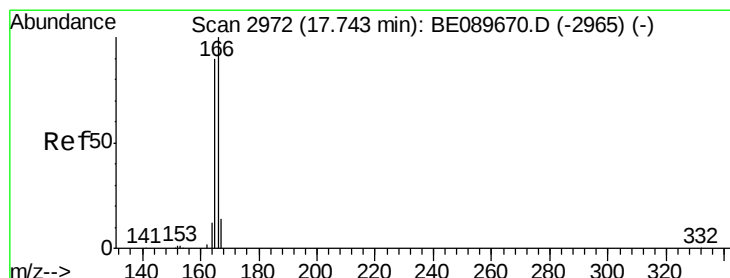
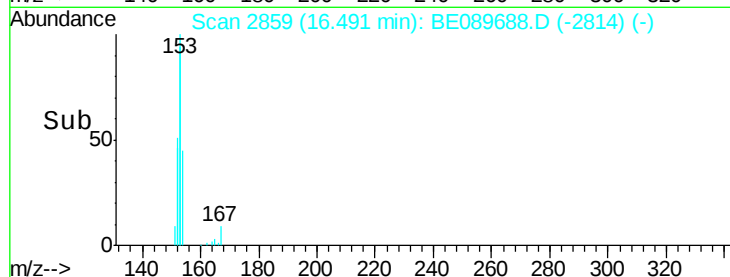
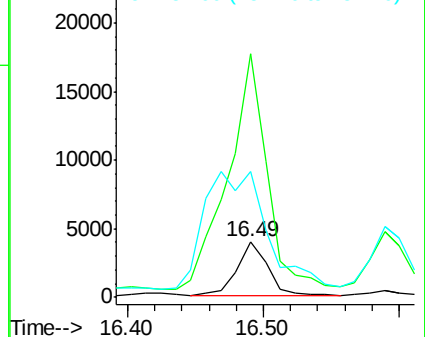
152 0.0 168.6 252.8#



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



#12

Fluorene

Concen: 0.65 ng

RT: 17.74 min Scan# 2973

Delta R.T. -0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 3:59

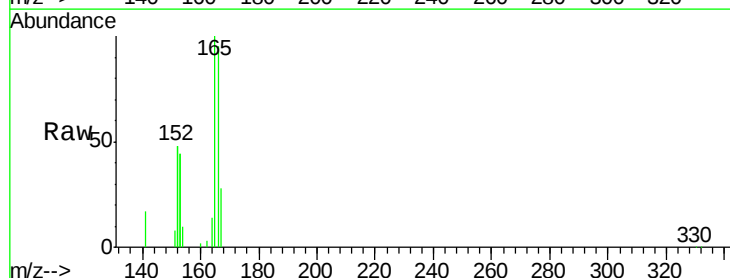
Tgt Ion:166 Resp: 14804

Ion Ratio Lower Upper

166 100

165 114.0 73.6 110.4#

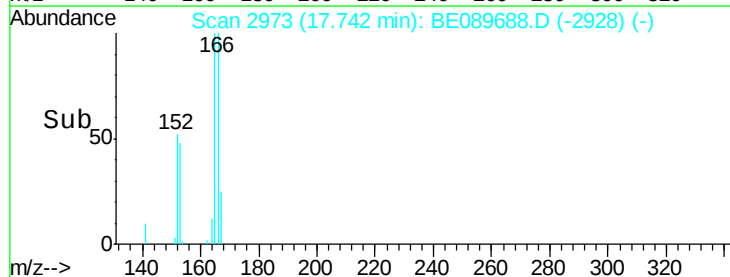
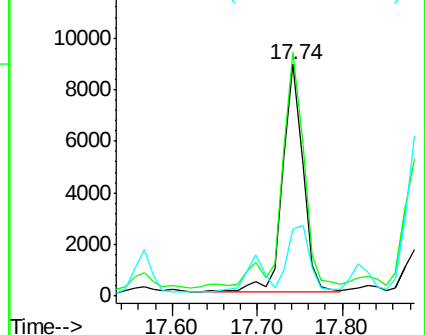
167 28.5 10.6 16.0#

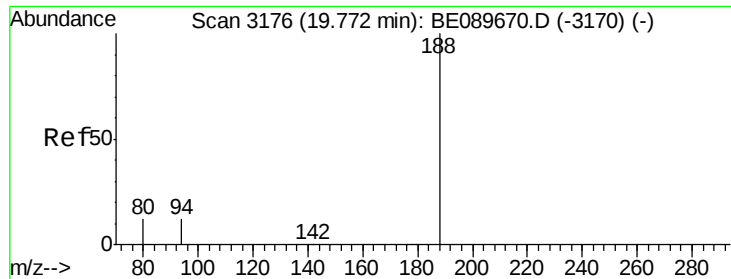


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.77 min Scan# 3177

Delta R.T. -0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 3:59

Instrument :

BNA_E

ClientSampleId :

MW-2

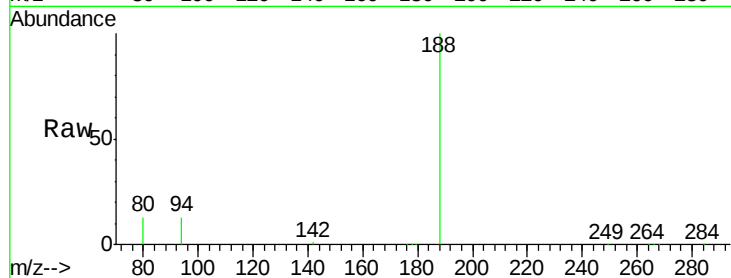
Tgt Ion:188 Resp: 151694

Ion Ratio Lower Upper

188 100

94 12.7 9.4 14.2

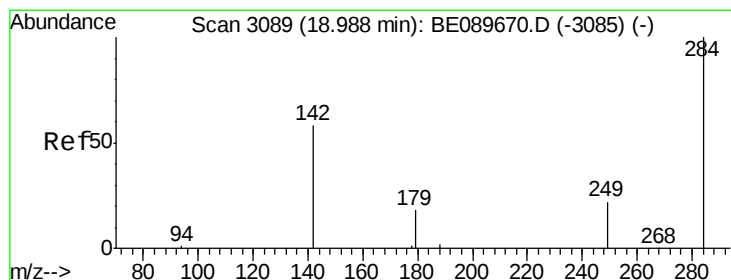
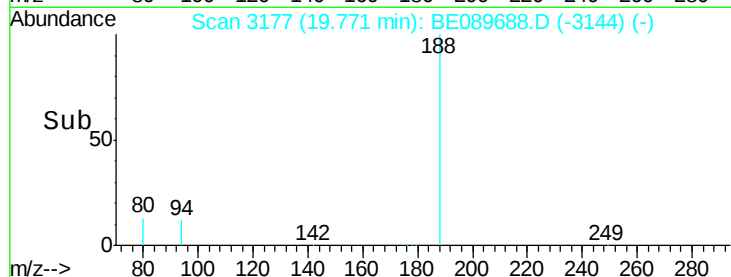
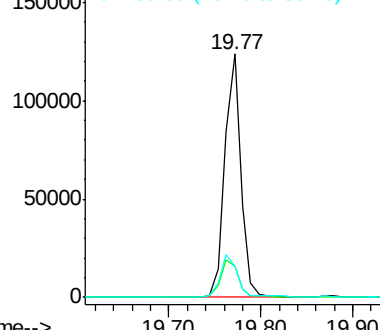
80 13.0 9.5 14.3



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



#14

Hexachlorobenzene

Concen: 0.17 ng

RT: 19.00 min Scan# 3091

Delta R.T. 0.01 min

Lab File: BE089688.D

Acq: 25 Feb 2015 3:59

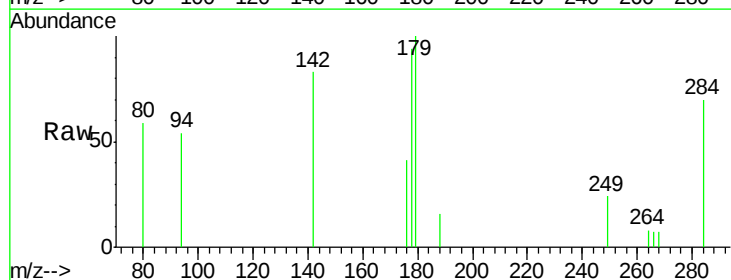
Tgt Ion:284 Resp: 656

Ion Ratio Lower Upper

284 100

142 200.5 55.4 83.2#

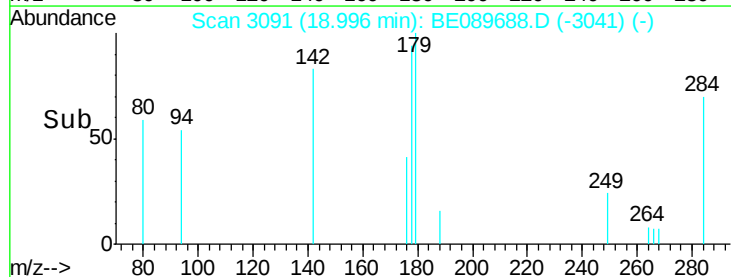
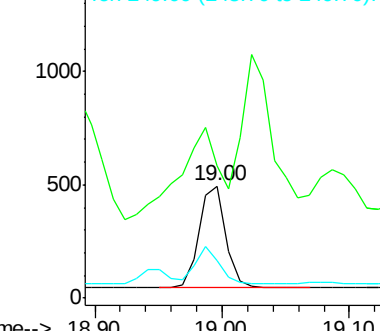
249 31.6 27.2 40.8



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

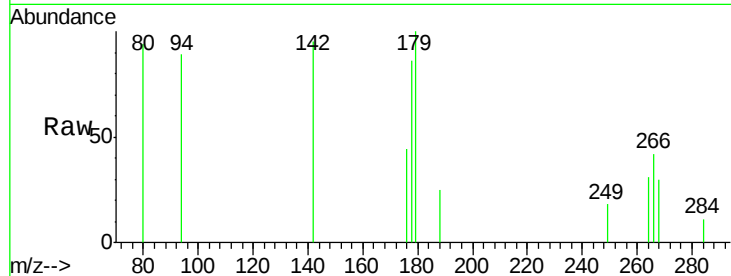




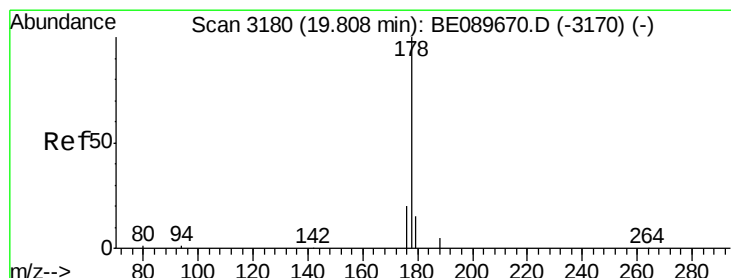
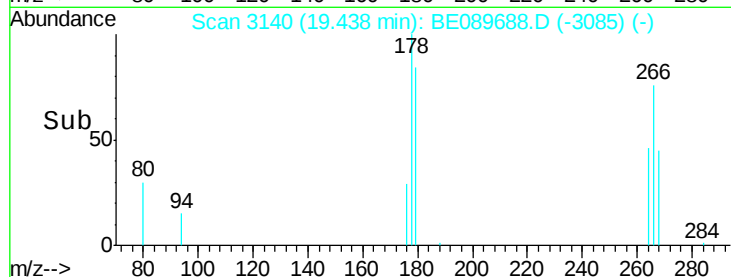
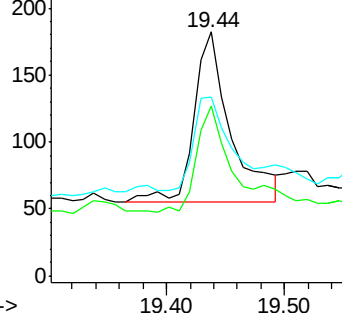
#15
 Pentachlorophenol
 Concen: 0.80 ng
 RT: 19.44 min Scan# 3140
 Delta R.T. -0.00 min
 Lab File: BE089688.D
 Acq: 25 Feb 2015 3:59

Instrument :
 BNA_E
 ClientSampleId :
 MW-2

Tgt Ion: 266 Resp: 278
 Ion Ratio Lower Upper
 266 100
 268 69.8 56.3 84.5
 264 73.6 51.8 77.8

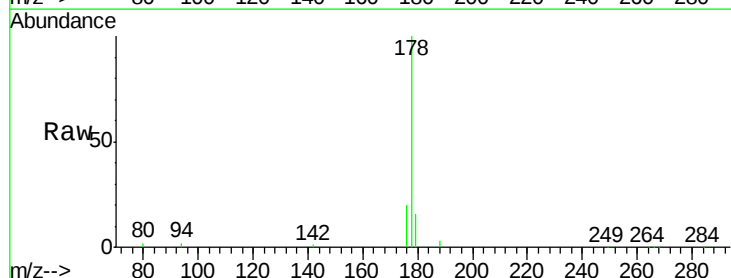


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

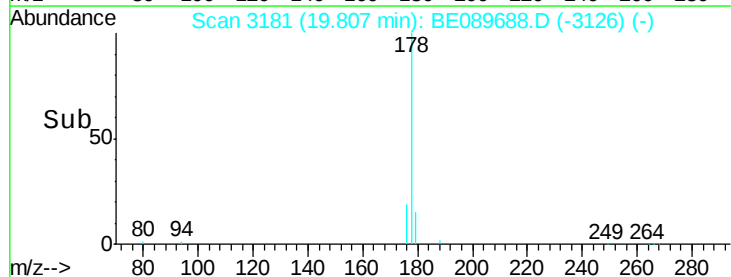
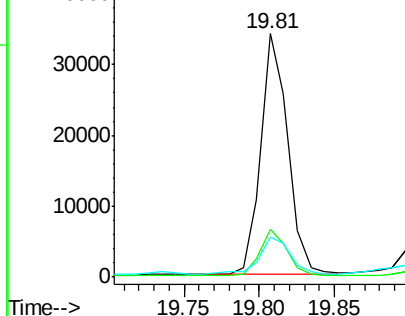


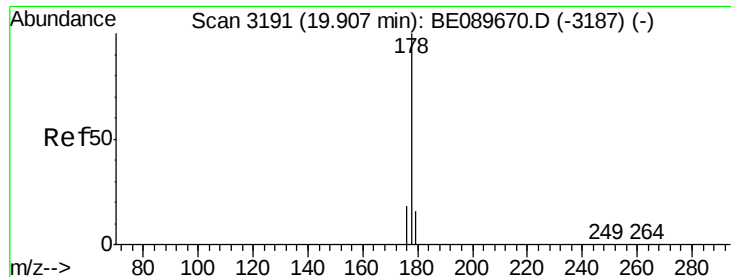
#16
 Phenanthrene
 Concen: 1.32 ng
 RT: 19.81 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: BE089688.D
 Acq: 25 Feb 2015 3:59

Tgt Ion: 178 Resp: 42763
 Ion Ratio Lower Upper
 178 100
 176 19.4 15.3 22.9
 179 16.6 12.5 18.7



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





#17

Anthracene

Concen: 1.55 ng

RT: 19.81 min Scan# 3181

Delta R.T. -0.10 min

Lab File: BE089688.D

Acq: 25 Feb 2015 3:59

Instrument :

BNA_E

ClientSampleId :

MW-2

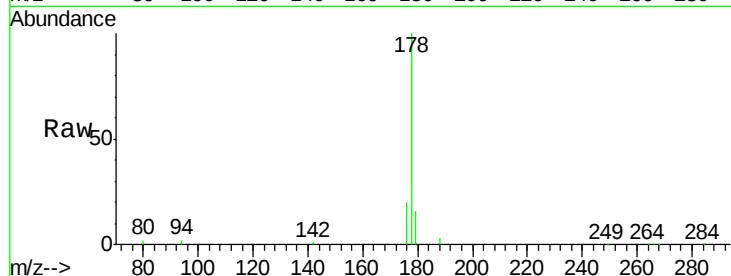
Tgt Ion:178 Resp: 42763

Ion Ratio Lower Upper

178 100

176 19.4 14.8 22.2

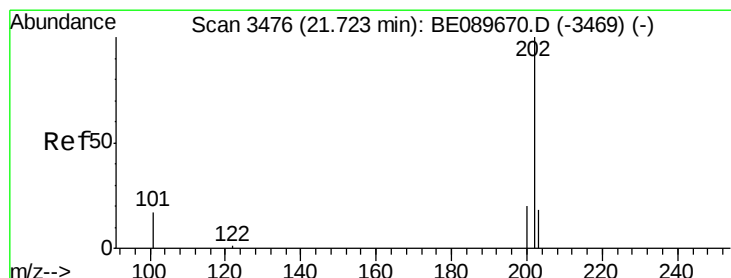
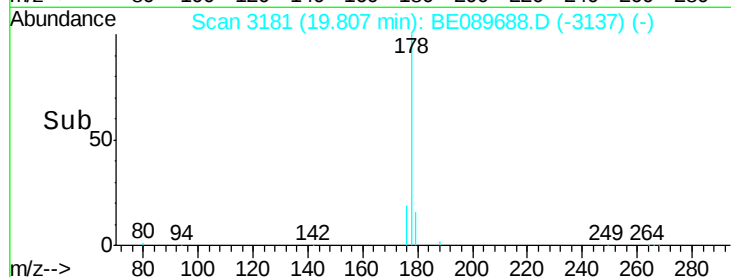
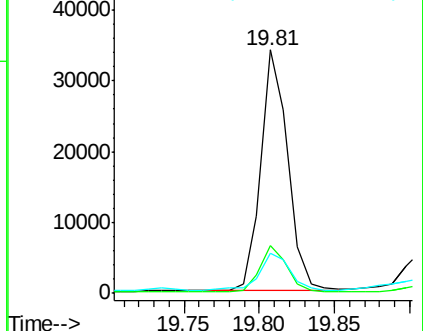
179 16.6 12.2 18.2



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



#18

Fluoranthene

Concen: 0.23 ng

RT: 21.72 min Scan# 3477

Delta R.T. -0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 3:59

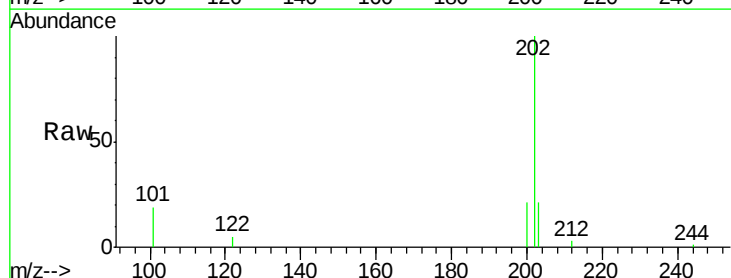
Tgt Ion:202 Resp: 6176

Ion Ratio Lower Upper

202 100

101 20.1 14.9 22.3

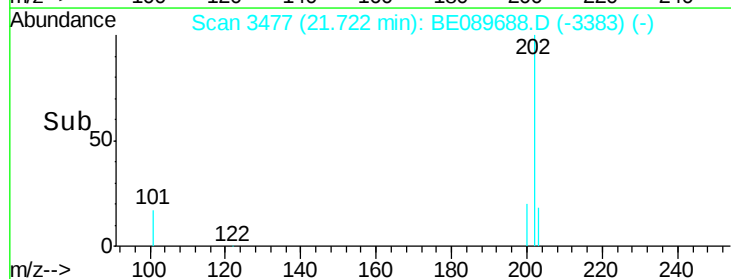
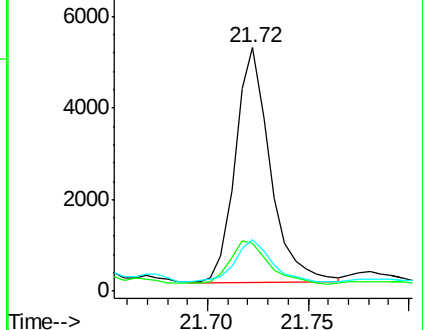
203 18.9 13.8 20.6

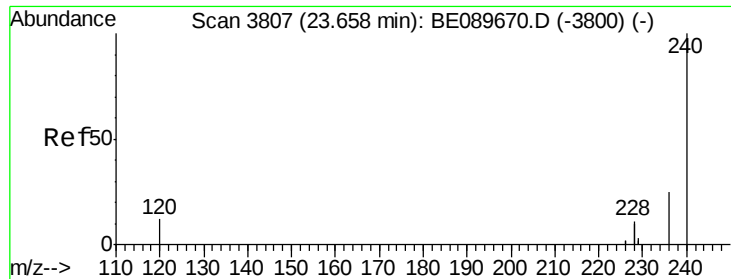


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3808

Delta R.T. -0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 3:59

Instrument :

BNA_E

ClientSampled :

MW-2

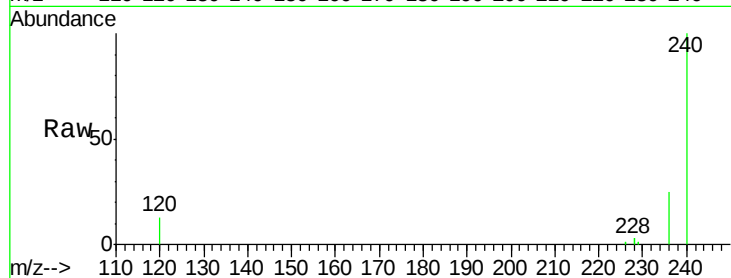
Tgt Ion:240 Resp: 109124

Ion Ratio Lower Upper

240 100

120 12.7 9.4 14.0

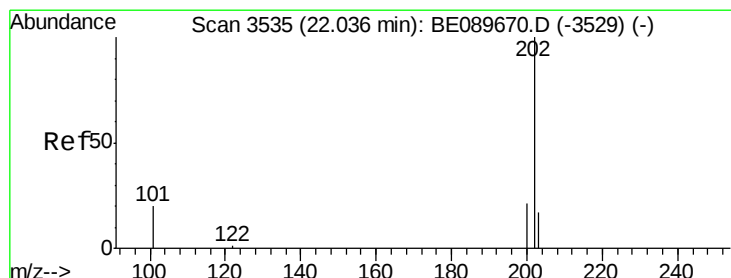
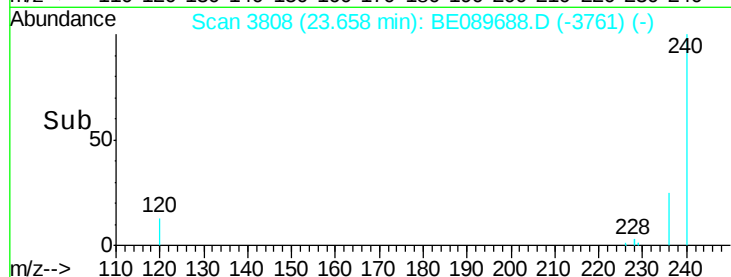
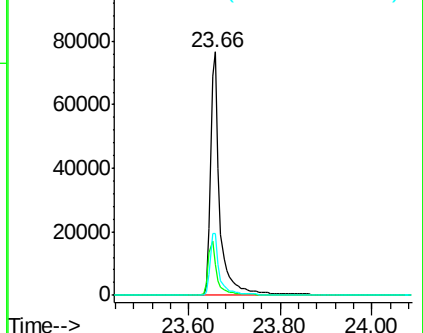
236 25.2 19.9 29.9



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



#20

Pyrene

Concen: 0.23 ng

RT: 21.72 min Scan# 3477

Delta R.T. -0.31 min

Lab File: BE089688.D

Acq: 25 Feb 2015 3:59

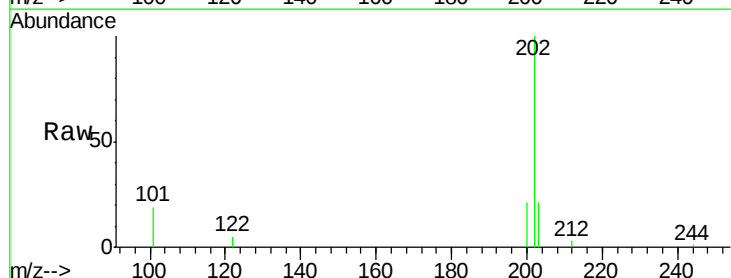
Tgt Ion:202 Resp: 6105

Ion Ratio Lower Upper

202 100

200 20.9 16.4 24.6

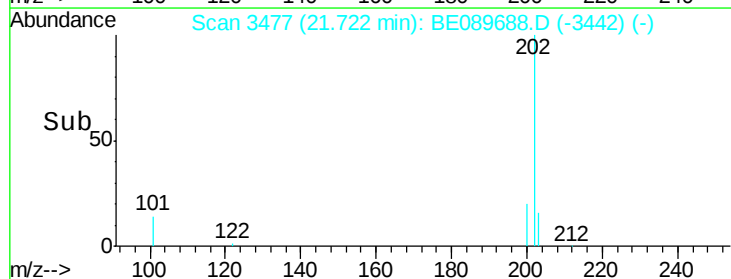
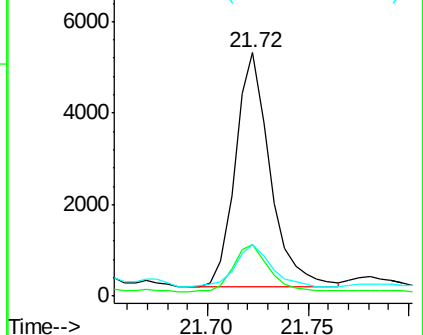
203 19.1 13.9 20.9



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





#21

Terphenyl-d14

Concen: 11.21 ng

RT: 22.30 min Scan# 3586

Delta R.T. -0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 3:59

Instrument :

BNA_E

ClientSampleId :

MW-2

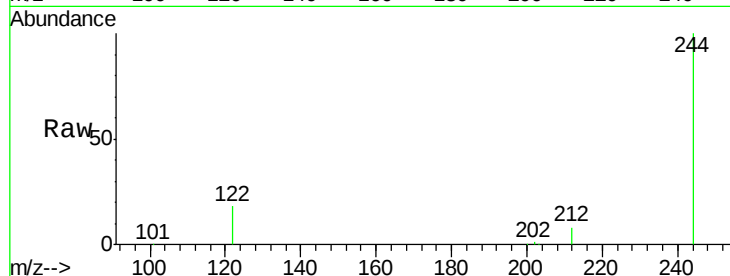
Tgt Ion:244 Resp: 143467

Ion Ratio Lower Upper

244 100

212 8.2 7.0 10.6

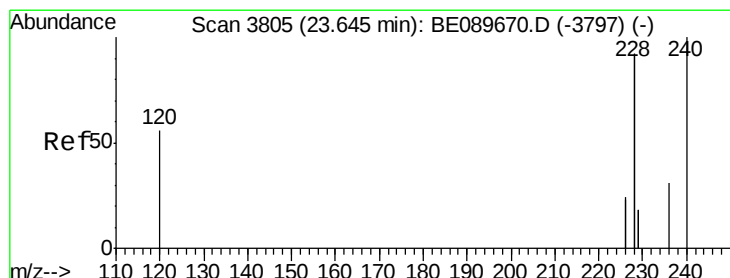
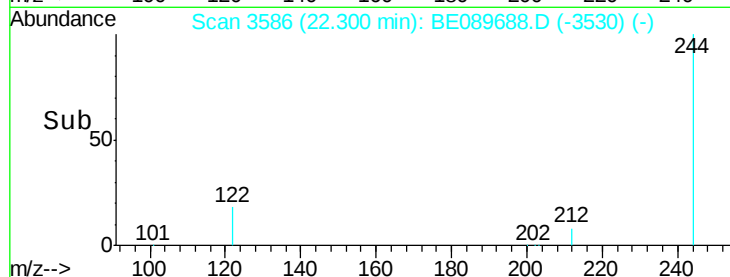
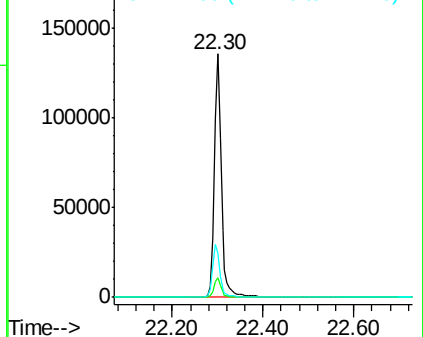
122 17.8 15.4 23.0



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#22

Benzo(a)anthracene

Concen: 0.20 ng

RT: 23.64 min Scan# 3806

Delta R.T. -0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 3:59

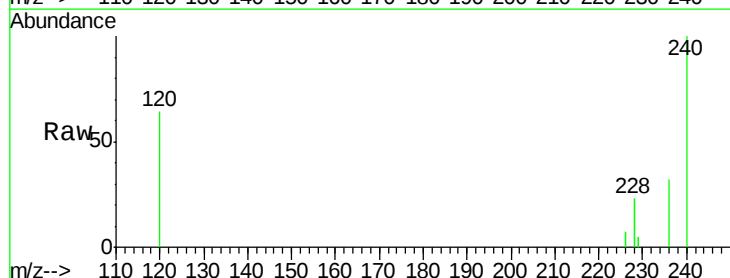
Tgt Ion:228 Resp: 14122

Ion Ratio Lower Upper

228 100

226 29.1 20.6 31.0

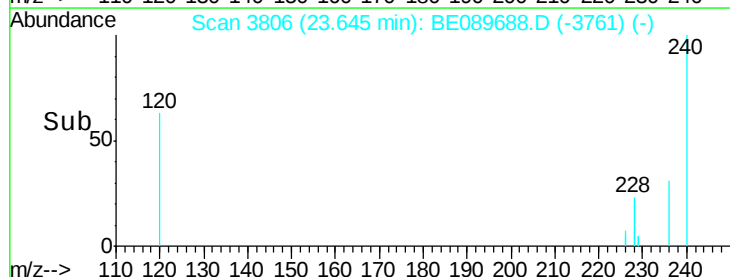
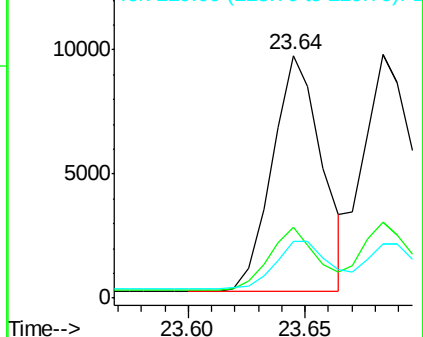
229 23.5 15.8 23.6



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





#23

Chrysene

Concen: 0.22 ng

RT: 23.68 min Scan# 3812

Delta R.T. -0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 3:59

Instrument :

BNA_E

ClientSampleId :

MW-2

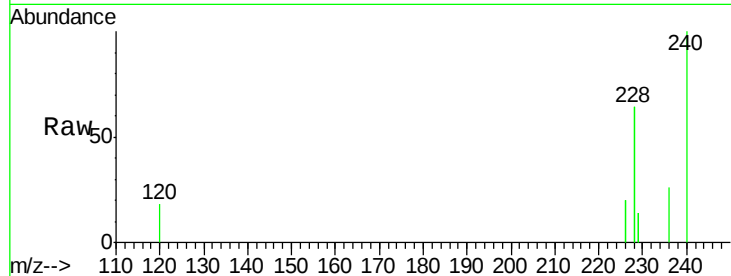
Tgt Ion:228 Resp: 21442

Ion Ratio Lower Upper

228 100

226 31.3 23.6 35.4

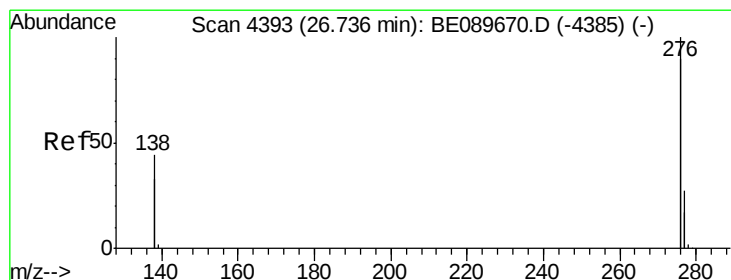
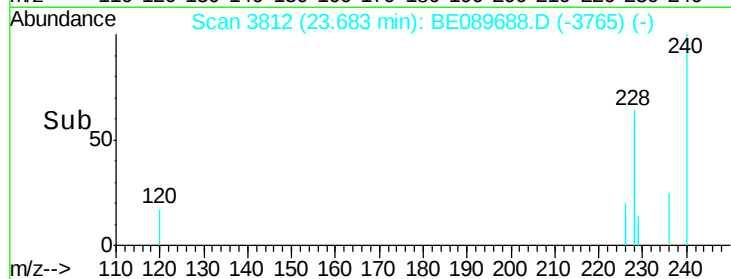
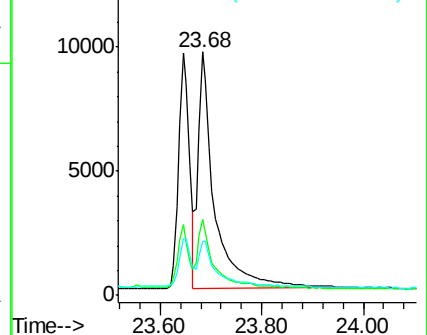
229 22.4 15.3 22.9



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.37 ng

RT: 26.73 min Scan# 4394

Delta R.T. -0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 3:59

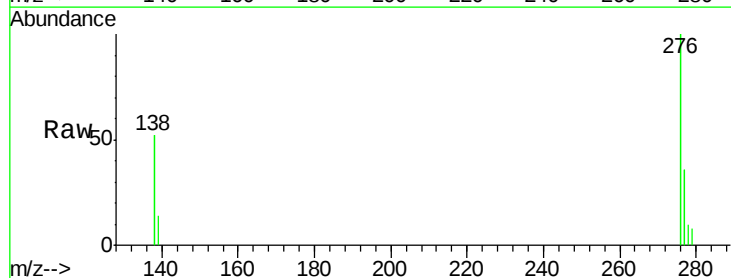
Tgt Ion:276 Resp: 5413

Ion Ratio Lower Upper

276 100

138 26.6 0.0 0.0#

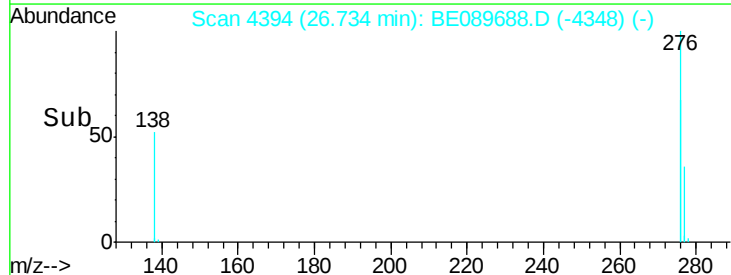
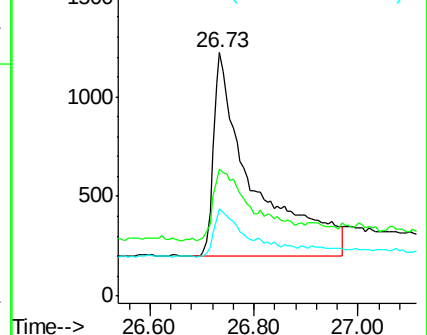
277 15.4 5.2 7.8#

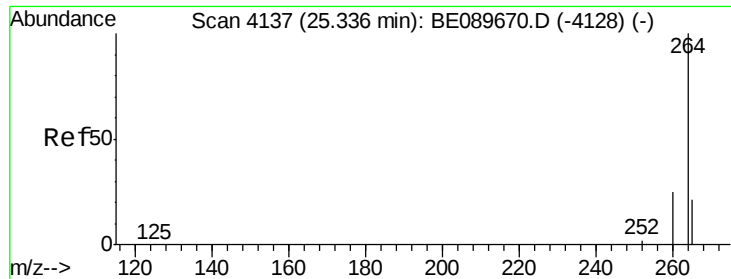


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

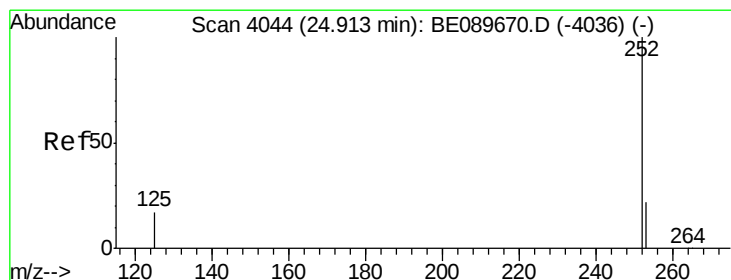
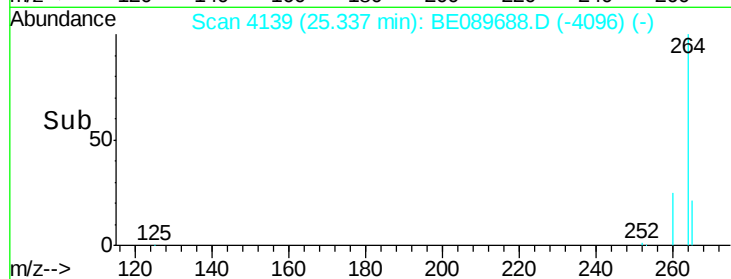
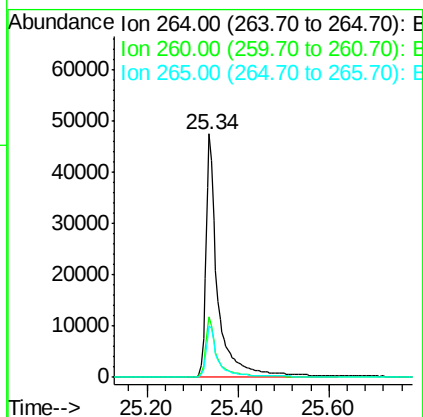
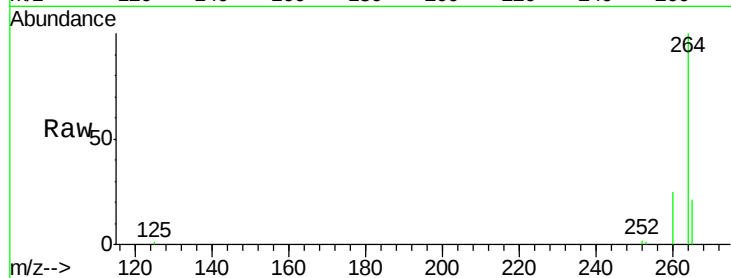




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4139
 Delta R.T. 0.00 min
 Lab File: BE089688.D
 Acq: 25 Feb 2015 3:59

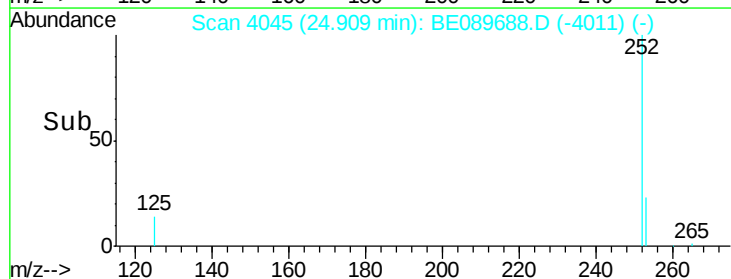
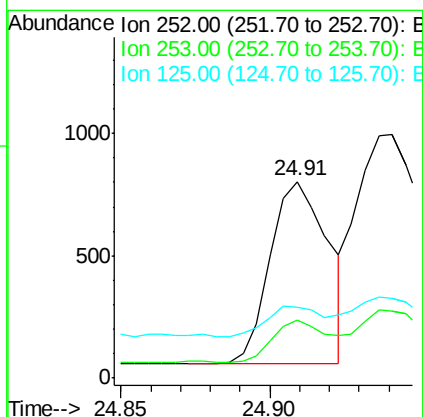
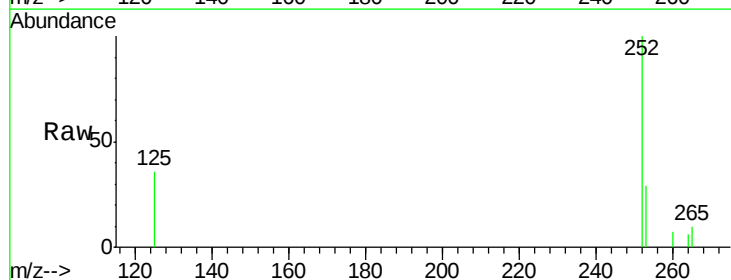
Instrument :
 BNA_E
 ClientSampleId :
 MW-2

Tgt Ion: 264 Resp: 86553
 Ion Ratio Lower Upper
 264 100
 260 25.0 20.2 30.4
 265 21.3 17.0 25.4



#26
 Benzo(b)fluoranthene
 Concen: 0.40 ng
 RT: 24.91 min Scan# 4045
 Delta R.T. -0.00 min
 Lab File: BE089688.D
 Acq: 25 Feb 2015 3:59

Tgt Ion: 252 Resp: 1013
 Ion Ratio Lower Upper
 252 100
 253 29.3 18.6 27.8#
 125 35.9 15.0 22.6#





#27

Benzo(k)fluoranthene

Concen: 0.28 ng

RT: 24.94 min Scan# 4052

Delta R.T. 0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 3:59

Instrument :

BNA_E

ClientSampleId :

MW-2

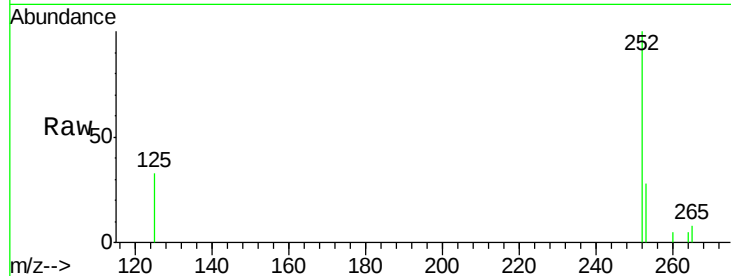
Tgt Ion:252 Resp: 3314

Ion Ratio Lower Upper

252 100

253 27.6 18.0 27.0#

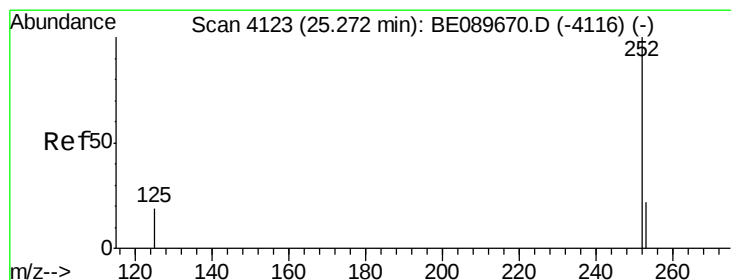
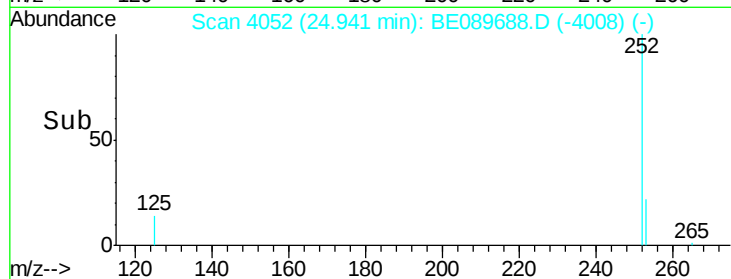
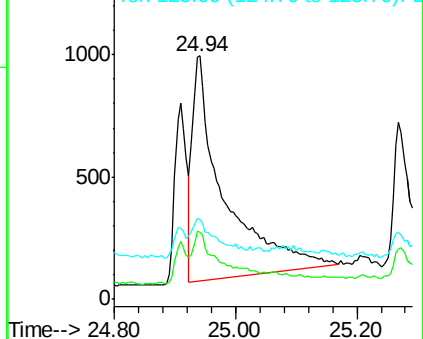
125 32.5 14.3 21.5#



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



#28

Benzo(a)pyrene

Concen: 0.21 ng

RT: 25.27 min Scan# 4124

Delta R.T. -0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 3:59

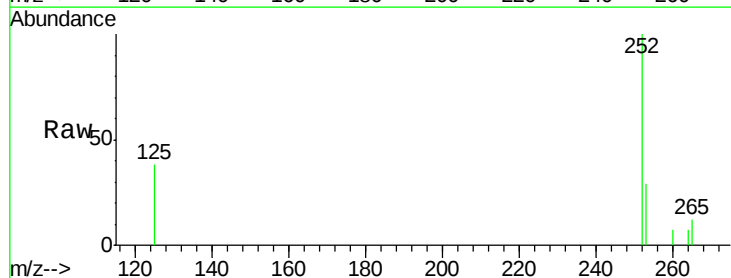
Tgt Ion:252 Resp: 1123

Ion Ratio Lower Upper

252 100

253 28.8 18.8 28.2#

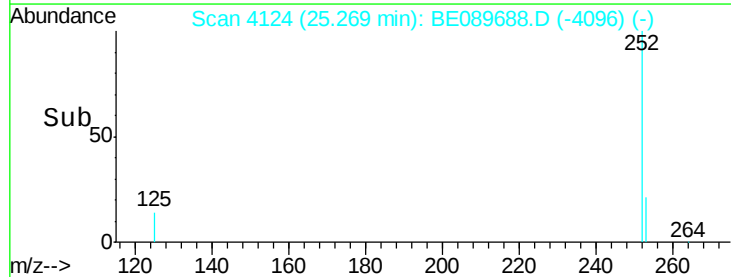
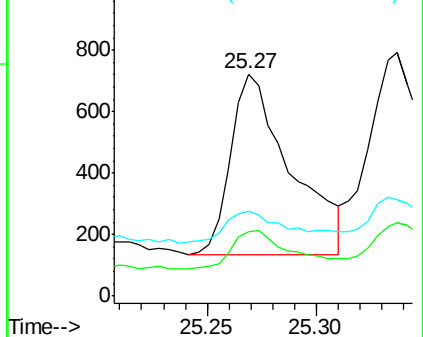
125 38.2 16.6 24.8#



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





#29

Dibenzo(a,h)anthracene

Concen: 0.38 ng

RT: 26.77 min Scan# 4399

Delta R.T. -0.00 min

Lab File: BE089688.D

Acq: 25 Feb 2015 3:59

Instrument :

BNA_E

ClientSampleId :

MW-2

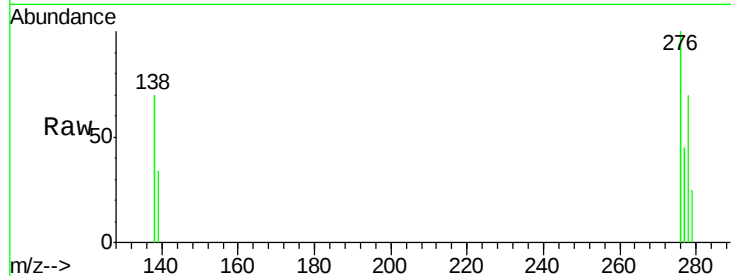
Tgt Ion: 278 Resp: 729

Ion Ratio Lower Upper

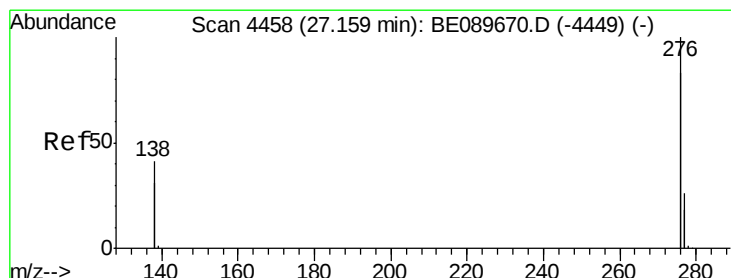
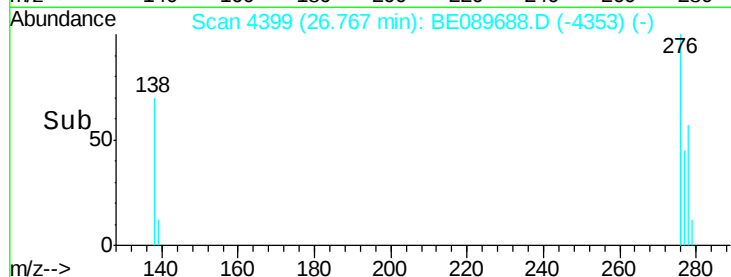
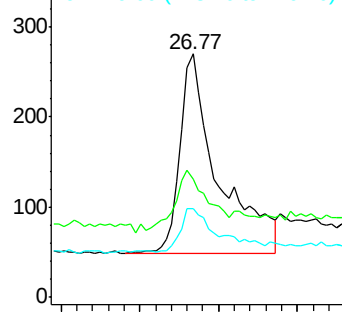
278 100

139 48.5 30.4 45.6#

279 36.3 22.0 33.0#



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#30

Benzo(g,h,i)perylene

Concen: 0.43 ng

RT: 27.15 min Scan# 4458

Delta R.T. -0.01 min

Lab File: BE089688.D

Acq: 25 Feb 2015 3:59

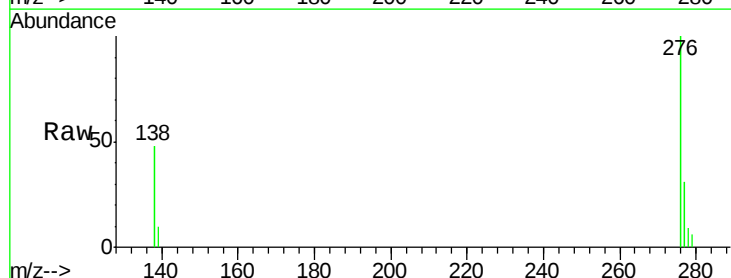
Tgt Ion: 276 Resp: 6643

Ion Ratio Lower Upper

276 100

277 31.4 21.0 31.6

138 48.0 33.0 49.4



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

