

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032415\
 Data File : BE089835.D
 Acq On : 25 Mar 2015 6:56
 Operator : TP/JJ
 Sample : G1575-12
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MW-14

Quant Time: Mar 25 17:06:42 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE032415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 25 16:20:31 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.50	152	216909	5.00	ng	0.00
4) Naphthalene-d8	10.26	136	868009	5.00	ng	0.00
8) Acenaphthene-d10	14.40	164	378123	5.00	ng	0.01
13) Phenanthrene-d10	17.93	188	631846	5.00	ng	0.00
19) Chrysene-d12	24.27	240	597970	5.00	ng	0.00
25) Perylene-d12	27.42	264	568244	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.68	82	472704	7.50	ng	0.00
9) 2-Fluorobiphenyl	12.85	172	728376	8.23	ng	0.00
21) Terphenyl-d14	21.87	244	741490	8.40	ng	0.00

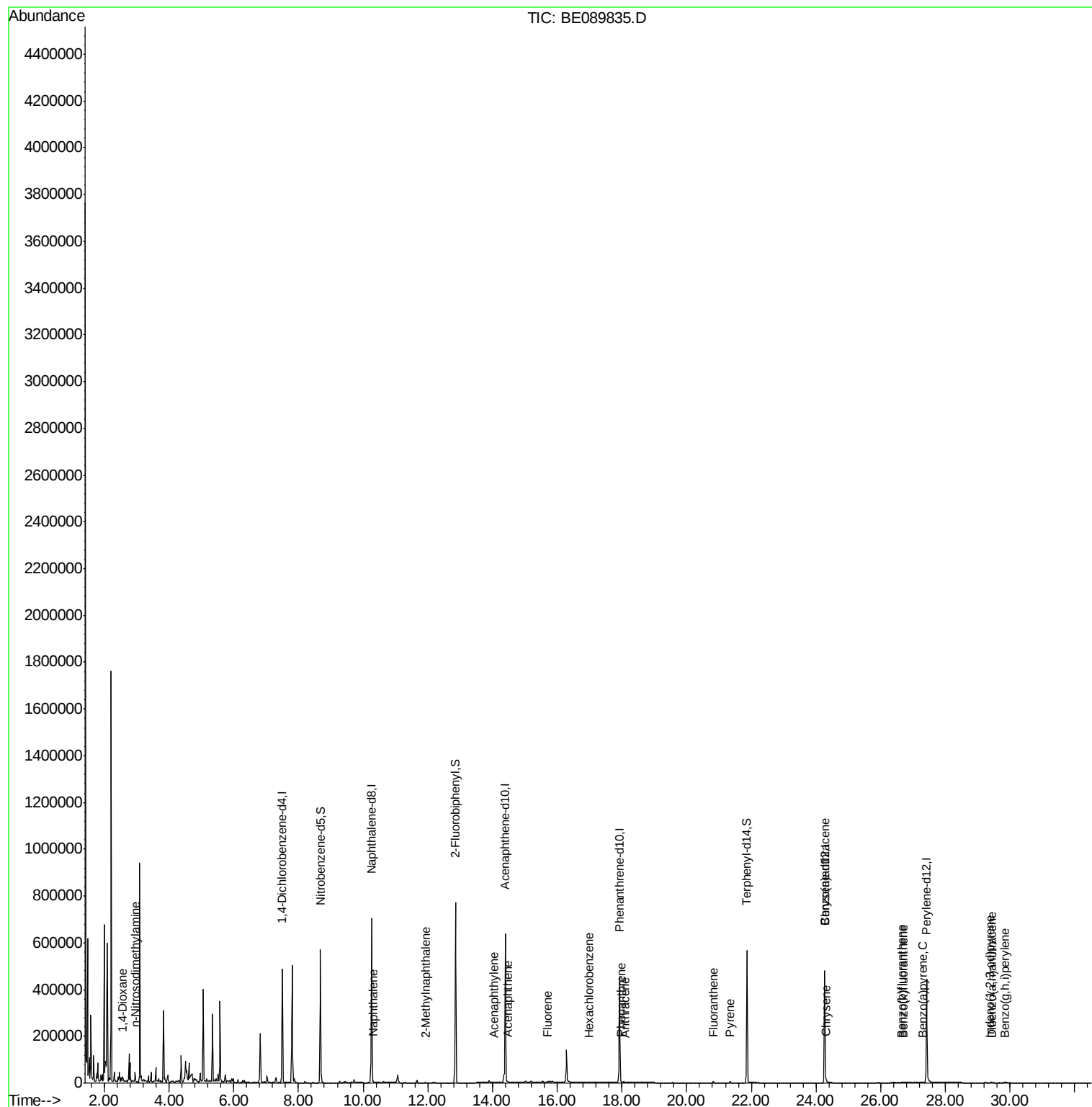
Target Compounds						Qvalue
2) 1,4-Dioxane	2.57	88	5101	0.18	ng	# 74
3) n-Nitrosodimethylamine	2.96	42	2931	0.07	ng	# 19
6) Naphthalene	10.31	128	10553	0.06	ng	# 93
7) 2-Methylnaphthalene	11.94	142	2012	0.02	ng	# 78
10) Acenaphthylene	14.04	152	1263	0.00	ng	# 71
11) Acenaphthene	14.47	154	960	0.01	ng	# 63
12) Fluorene	15.71	166	1820	0.02	ng	# 23
14) Hexachlorobenzene	16.99	284	550	0.03	ng	# 77
15) Pentachlorophenol	17.50	266	1005	Below Cal		99
16) Phenanthrene	17.97	178	3169	0.02	ng	# 87
17) Anthracene	18.10	178	1554	0.01	ng	# 73
18) Fluoranthene	20.82	202	5698	0.05	ng	# 90
20) Pyrene	21.35	202	5204	0.03	ng	# 89
22) Benzo(a)anthracene	24.26	228	2329	0.02	ng	# 67
23) Chrysene	24.32	228	2424	0.02	ng	# 64
24) Indeno(1,2,3-cd)pyrene	29.39	276	1027	0.43	ng	# 85
26) Benzo(b)fluoranthene	26.64	252	2982	0.33	ng	# 21
27) Benzo(k)fluoranthene	26.70	252	1221	0.01	ng	# 1
28) Benzo(a)pyrene	27.30	252	1070	0.30	ng	# 1
29) Dibenzo(a,h)anthracene	29.44	278	292	0.26	ng	# 1
30) Benzo(g,h,i)perylene	29.84	276	1531	0.26	ng	# 47

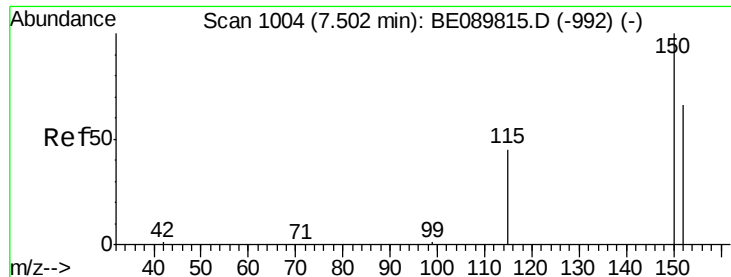
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.50 min Scan# 1004

Delta R.T. 0.00 min

Lab File: BE089835.D

Acq: 25 Mar 2015 6:56

Instrument :

BNA_E

ClientSampleId :

MW-14

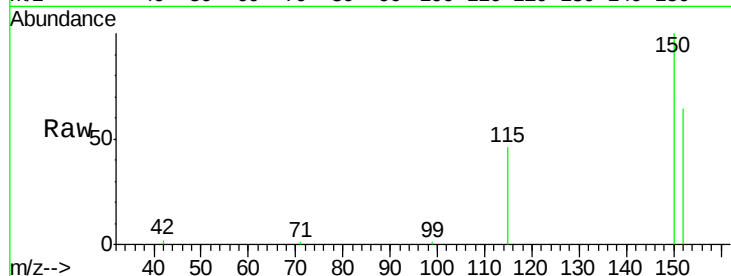
Tgt Ion:152 Resp: 216909

Ion Ratio Lower Upper

152 100

150 155.9 125.5 188.3

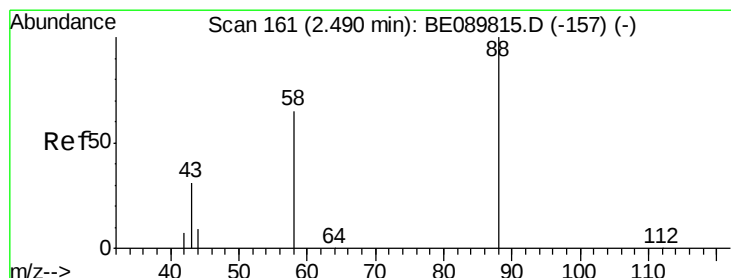
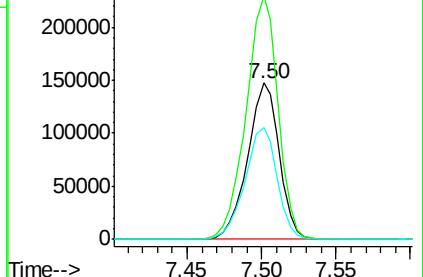
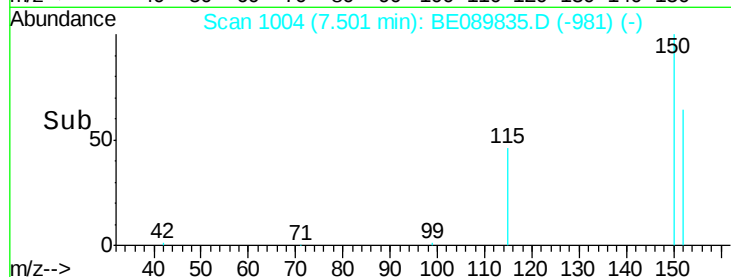
115 71.6 58.0 87.0



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

1,4-Dioxane

Concen: 0.18 ng

RT: 2.57 min Scan# 173

Delta R.T. 0.05 min

Lab File: BE089835.D

Acq: 25 Mar 2015 6:56

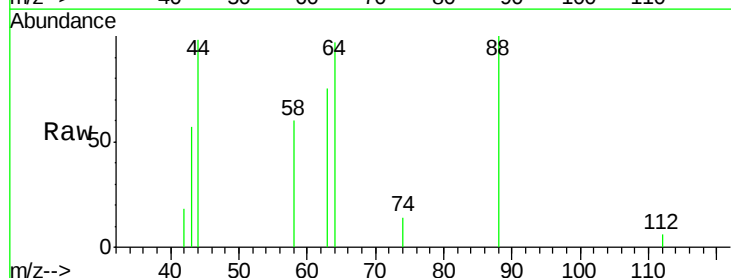
Tgt Ion: 88 Resp: 5101

Ion Ratio Lower Upper

88 100

58 64.7 48.6 72.8

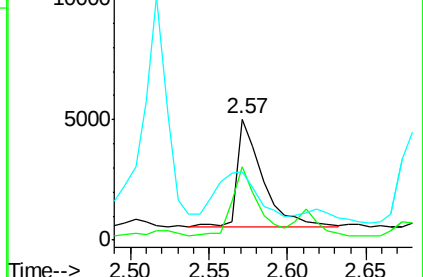
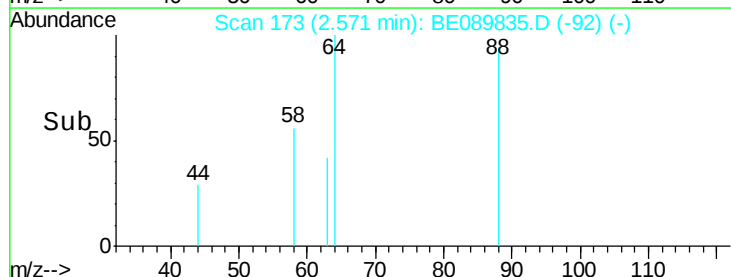
43 0.0 28.6 43.0#

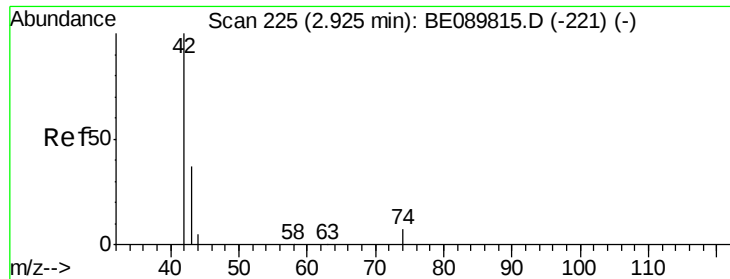


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.07 ng

RT: 2.96 min Scan# 230

Delta R.T. -0.03 min

Lab File: BE089835.D

Acq: 25 Mar 2015 6:56

Instrument :

BNA_E

ClientSampleId :

MW-14

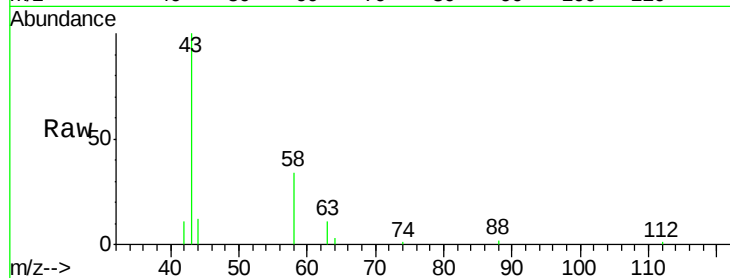
Tgt Ion: 42 Resp: 2931

Ion Ratio Lower Upper

42 100

74 6.5 68.7 103.1#

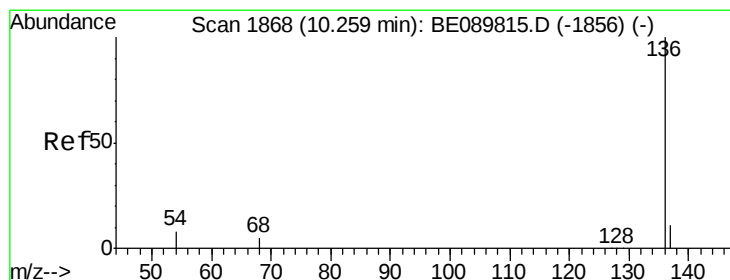
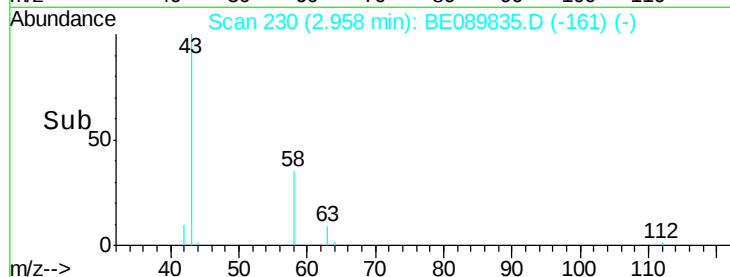
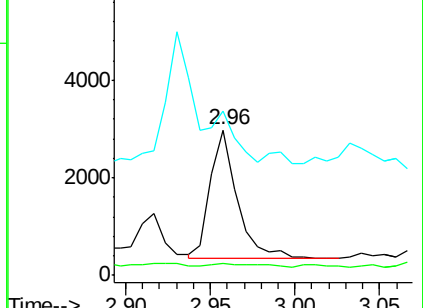
44 0.0 6.2 9.4#



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: 10.26 min Scan# 1869

Delta R.T. 0.01 min

Lab File: BE089835.D

Acq: 25 Mar 2015 6:56

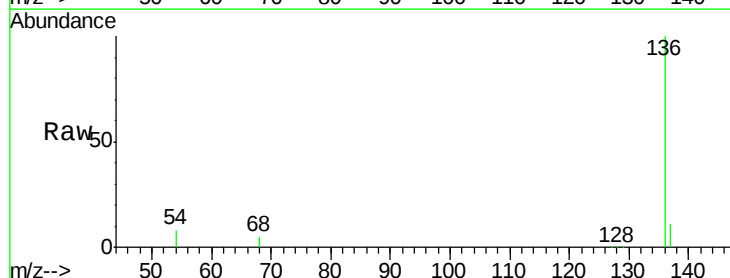
Tgt Ion: 136 Resp: 868009

Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

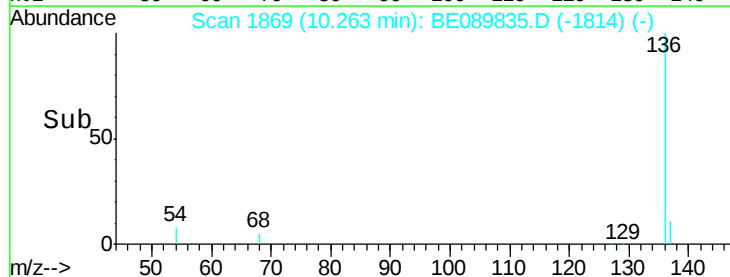
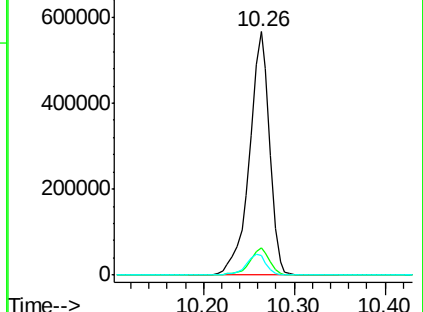
54 7.9 7.0 10.4

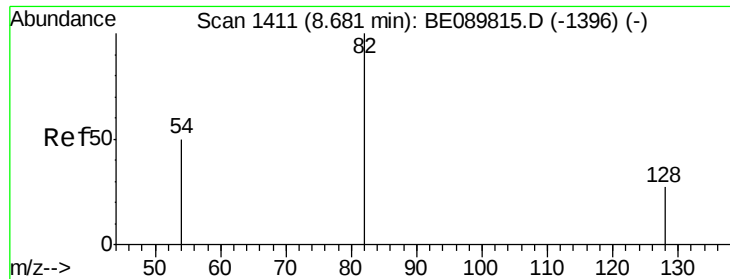


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 7.50 ng

RT: 8.68 min Scan# 1412

Delta R.T. 0.00 min

Lab File: BE089835.D

Acq: 25 Mar 2015 6:56

Instrument :

BNA_E

ClientSampleId :

MW-14

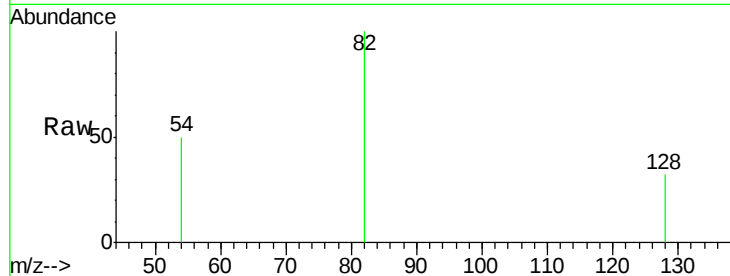
Tgt Ion: 82 Resp: 472704

Ion Ratio Lower Upper

82 100

128 31.9 24.6 37.0

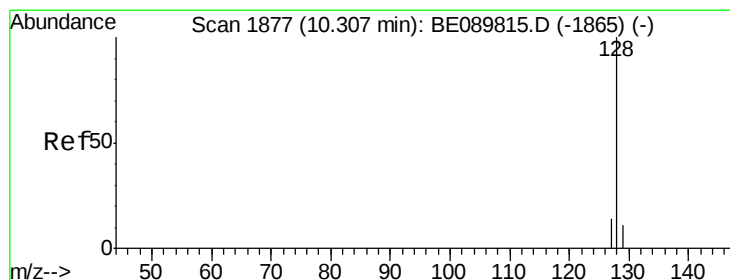
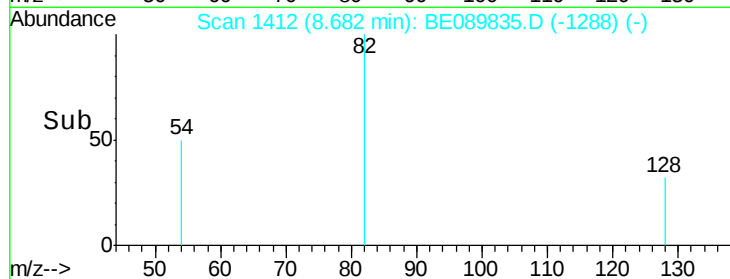
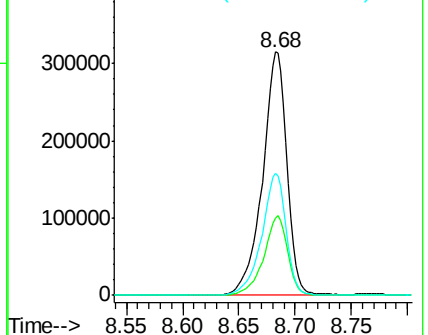
54 49.9 43.0 64.6



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: 0.06 ng

RT: 10.31 min Scan# 1878

Delta R.T. 0.01 min

Lab File: BE089835.D

Acq: 25 Mar 2015 6:56

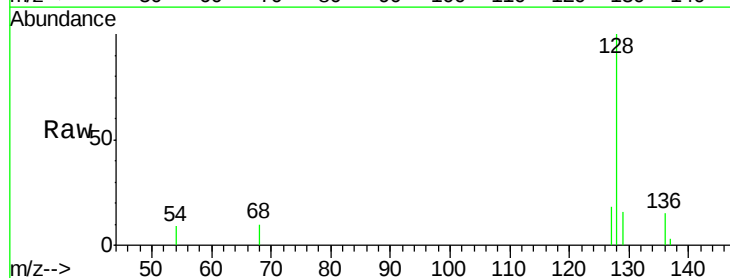
Tgt Ion: 128 Resp: 10553

Ion Ratio Lower Upper

128 100

129 15.7 10.0 15.0#

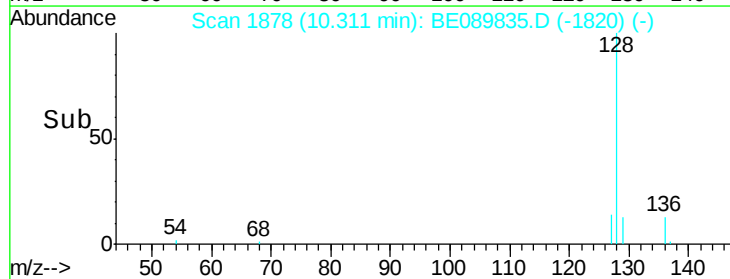
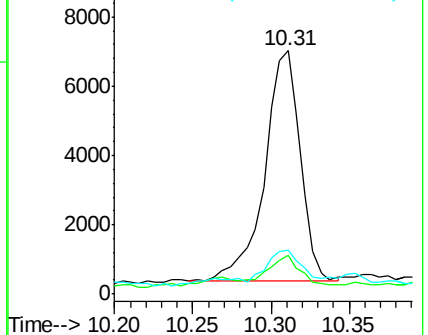
127 18.3 12.5 18.7

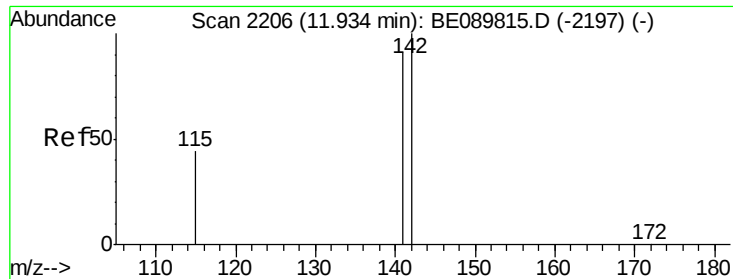


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 0.02 ng

RT: 11.94 min Scan# 2207

Delta R.T. -0.00 min

Lab File: BE089835.D

Acq: 25 Mar 2015 6:56

Instrument :

BNA_E

ClientSampleId :

MW-14

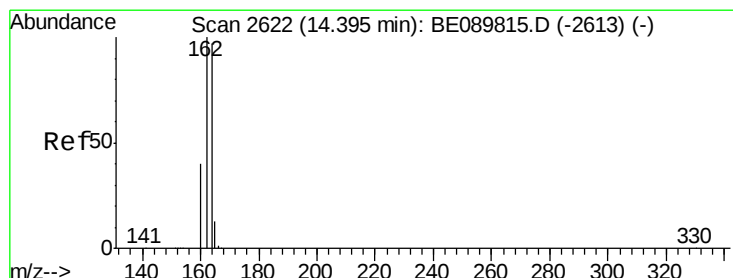
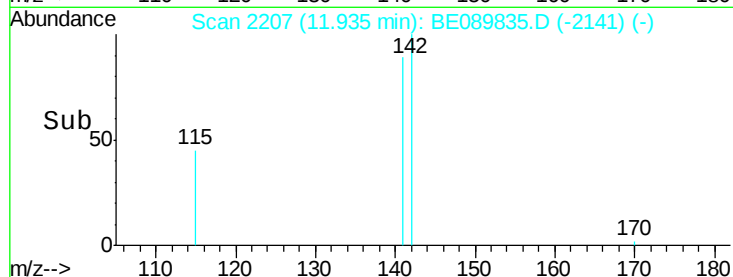
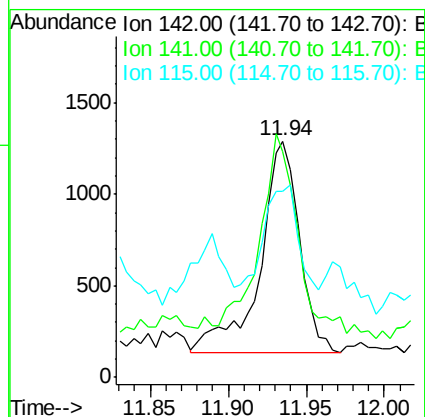
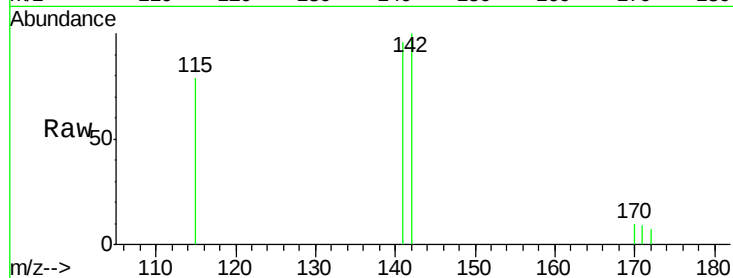
Tgt Ion:142 Resp: 2012

Ion Ratio Lower Upper

142 100

141 95.6 72.8 109.2

115 78.9 32.9 49.3#



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.40 min Scan# 2623

Delta R.T. 0.01 min

Lab File: BE089835.D

Acq: 25 Mar 2015 6:56

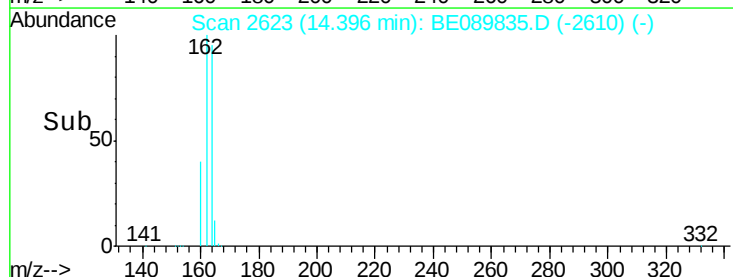
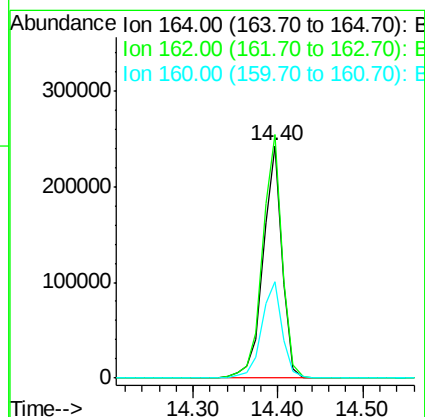
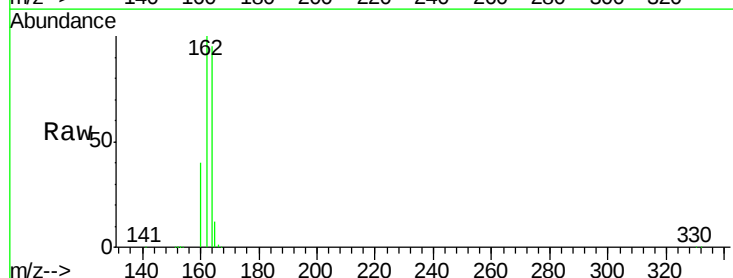
Tgt Ion:164 Resp: 378123

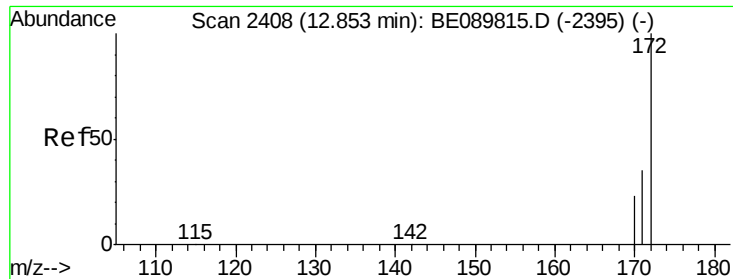
Ion Ratio Lower Upper

164 100

162 104.8 87.6 131.4

160 41.8 36.7 55.1





#9

2-Fluorobiphenyl

Concen: 8.23 ng

RT: 12.85 min Scan# 2409

Delta R.T. 0.00 min

Lab File: BE089835.D

Acq: 25 Mar 2015 6:56

Instrument :

BNA_E

ClientSampleId :

MW-14

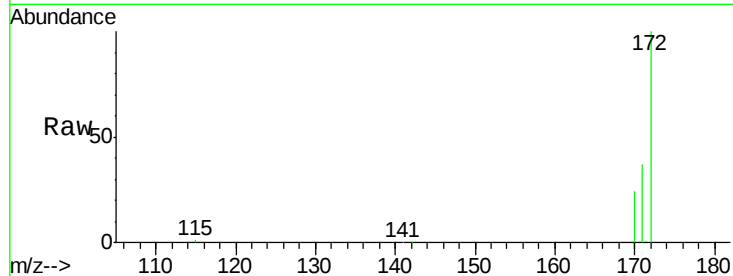
Tgt Ion:172 Resp: 728376

Ion Ratio Lower Upper

172 100

171 37.0 30.8 46.2

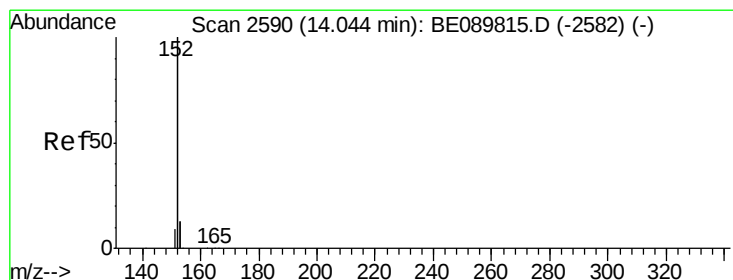
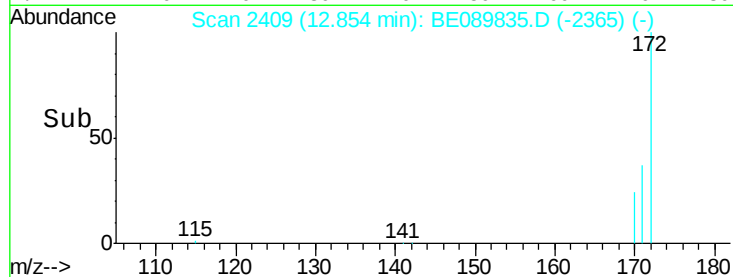
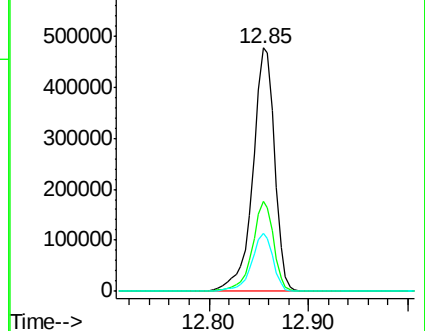
170 24.1 21.0 31.4



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: 0.00 ng

RT: 14.04 min Scan# 2591

Delta R.T. -0.00 min

Lab File: BE089835.D

Acq: 25 Mar 2015 6:56

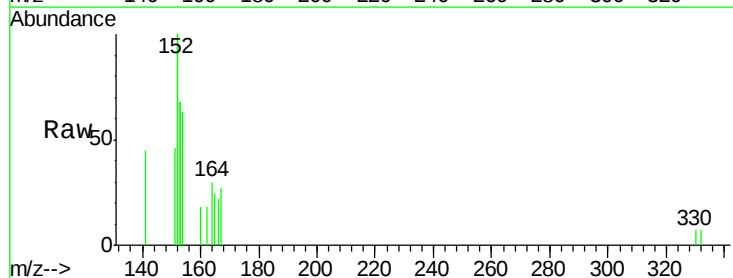
Tgt Ion:152 Resp: 1263

Ion Ratio Lower Upper

152 100

151 0.0 3.9 5.9#

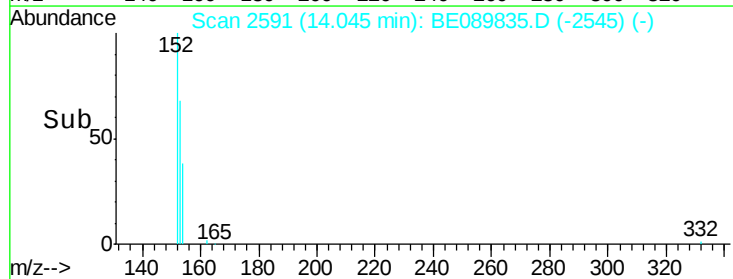
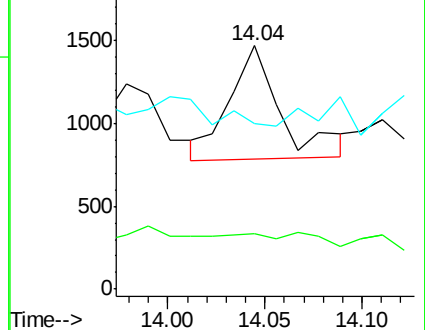
153 0.0 11.0 16.4#

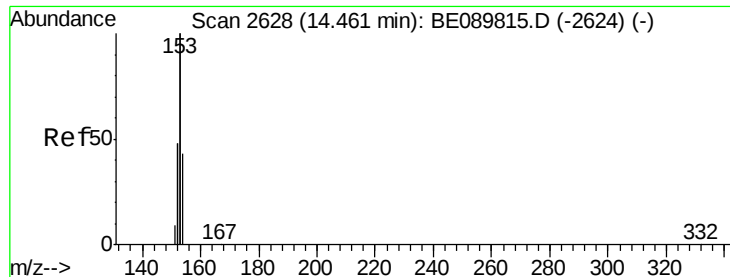


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.01 ng

RT: 14.47 min Scan# 2630

Delta R.T. 0.01 min

Lab File: BE089835.D

Acq: 25 Mar 2015 6:56

Instrument :

BNA_E

ClientSampleId :

MW-14

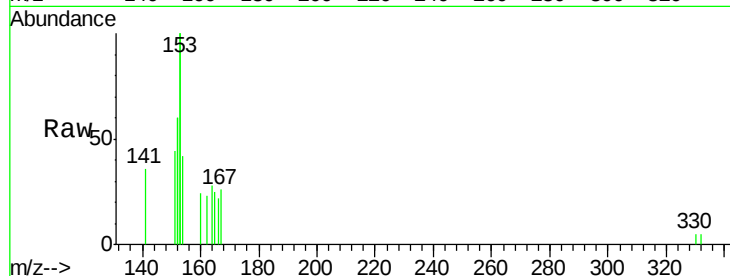
Tgt Ion:154 Resp: 960

Ion Ratio Lower Upper

154 100

153 355.4 401.5 602.3#

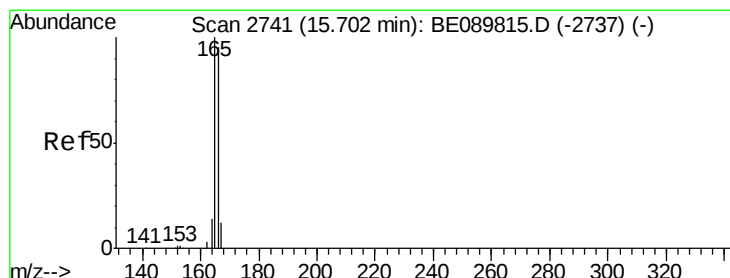
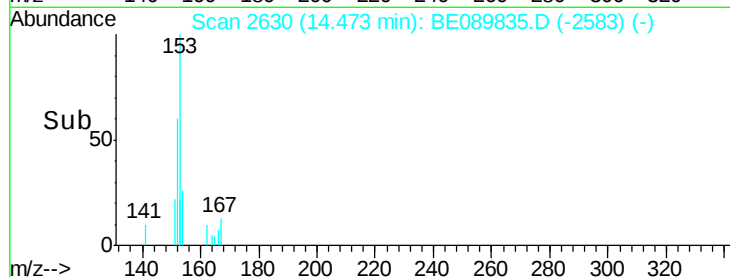
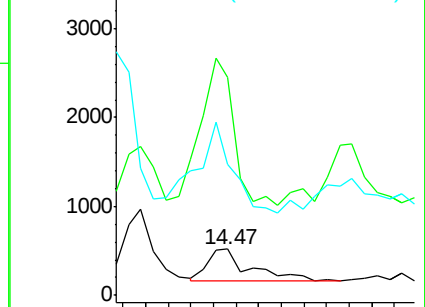
152 239.1 198.6 298.0



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: 0.02 ng

RT: 15.71 min Scan# 2743

Delta R.T. -0.00 min

Lab File: BE089835.D

Acq: 25 Mar 2015 6:56

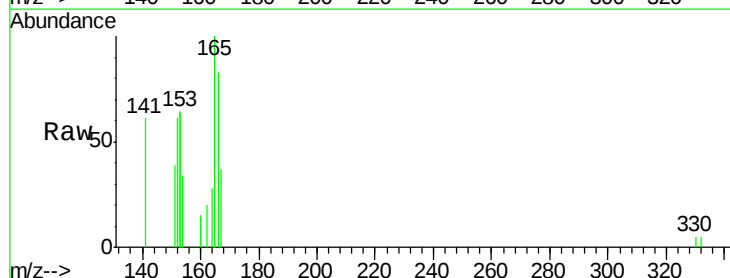
Tgt Ion:166 Resp: 1820

Ion Ratio Lower Upper

166 100

165 187.0 85.1 127.7#

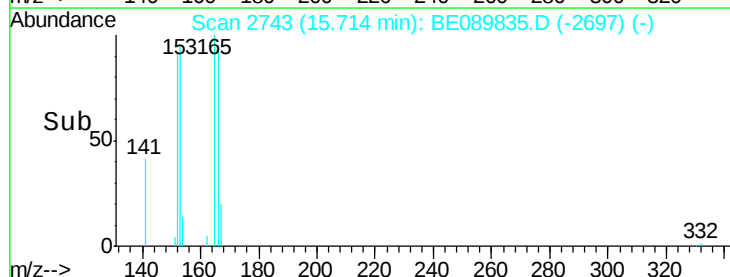
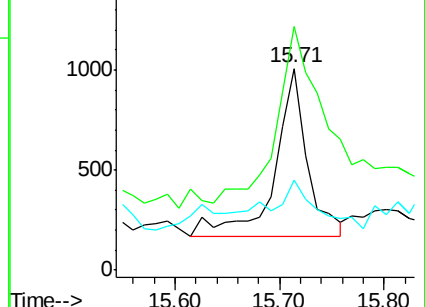
167 43.7 12.2 18.4#

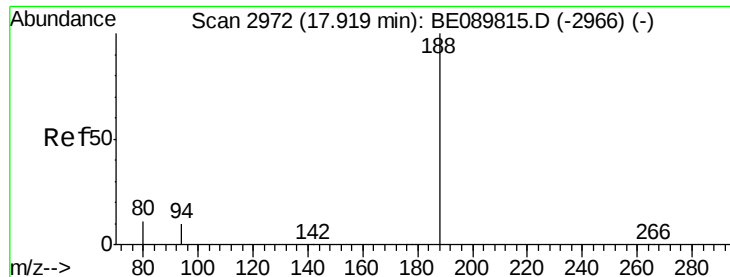


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.93 min Scan# 2974

Delta R.T. 0.01 min

Lab File: BE089835.D

Acq: 25 Mar 2015 6:56

Instrument :

BNA_E

ClientSampled :

MW-14

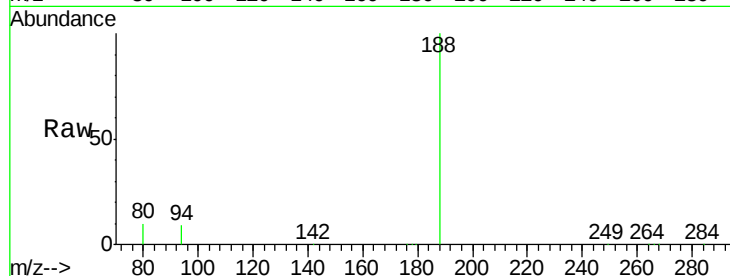
Tgt Ion:188 Resp: 631846

Ion Ratio Lower Upper

188 100

94 9.2 8.5 12.7

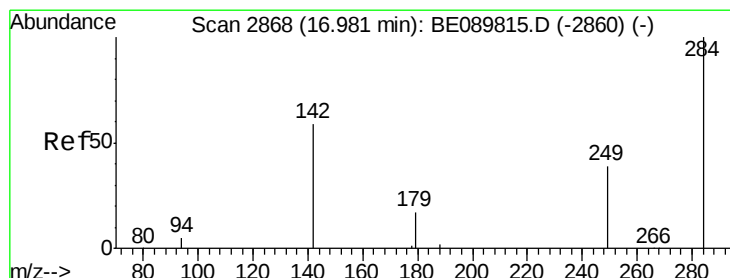
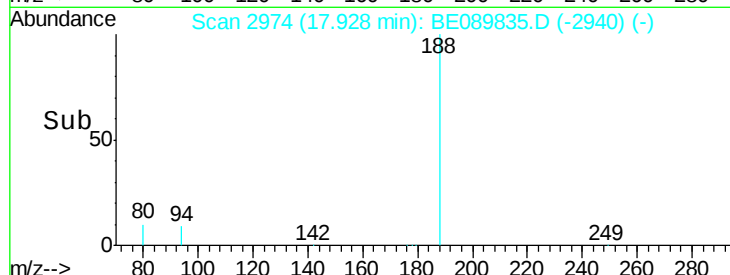
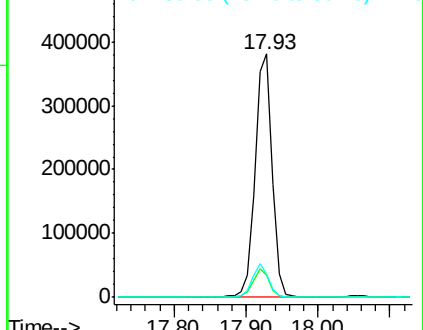
80 9.9 10.0 15.0#



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: 0.03 ng

RT: 16.99 min Scan# 2870

Delta R.T. 0.01 min

Lab File: BE089835.D

Acq: 25 Mar 2015 6:56

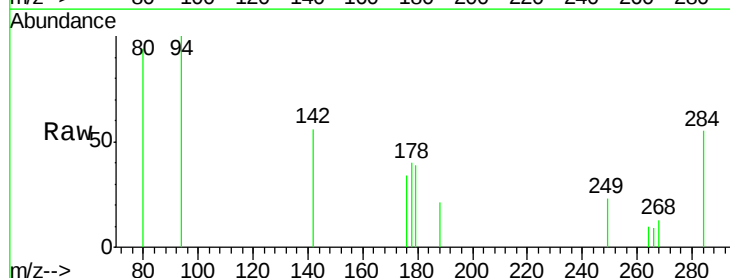
Tgt Ion:284 Resp: 550

Ion Ratio Lower Upper

284 100

142 94.5 53.3 79.9#

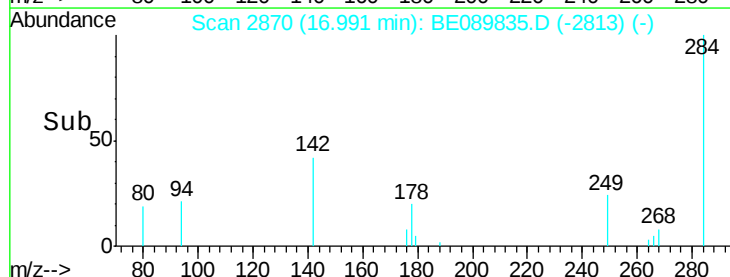
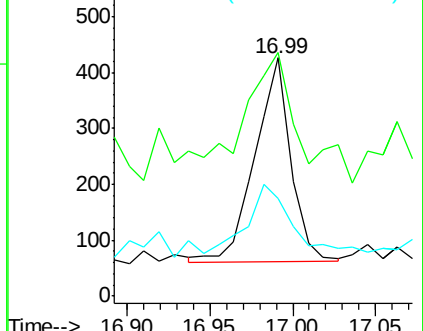
249 40.5 31.1 46.7

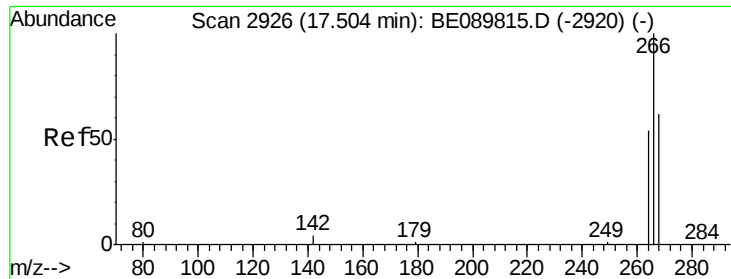


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

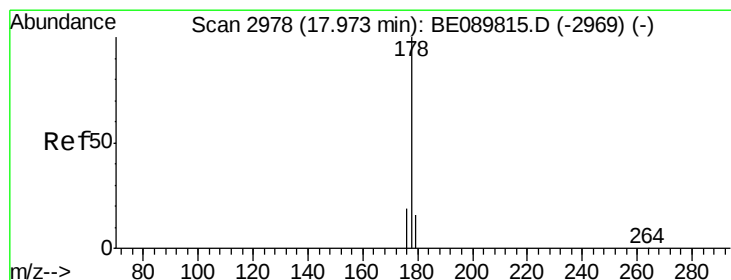
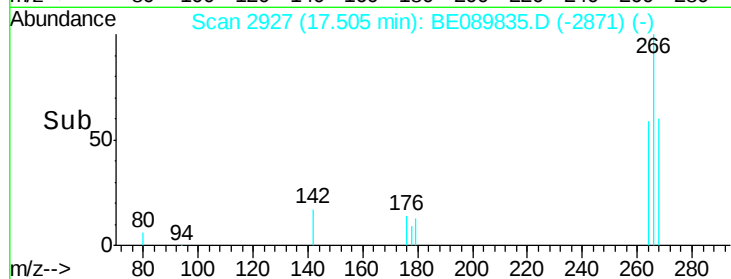
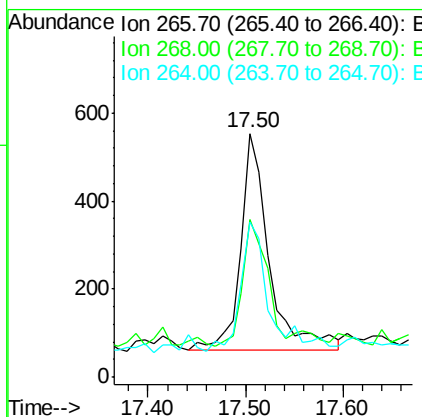
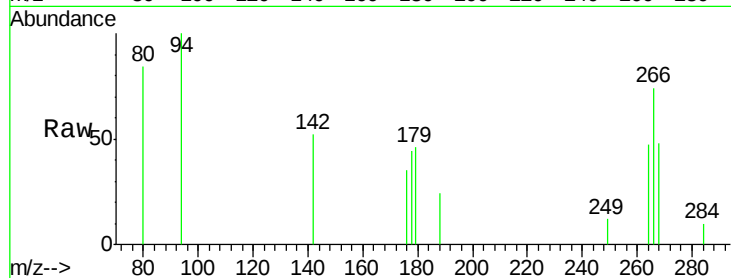




#15
 Pentachlorophenol
 Concen: Below Cal
 RT: 17.50 min Scan# 2927
 Delta R.T. 0.00 min
 Lab File: BE089835.D
 Acq: 25 Mar 2015 6:56

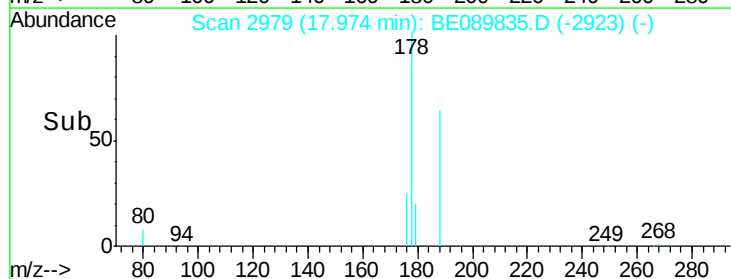
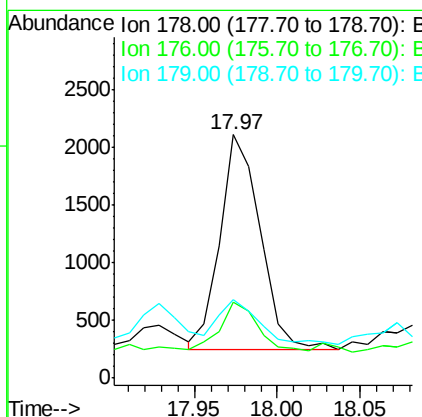
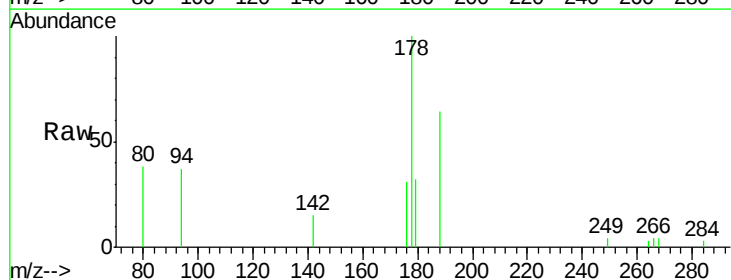
Instrument :
 BNA_E
 ClientSampleId :
 MW-14

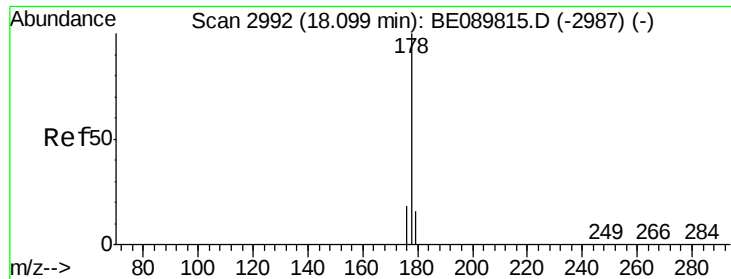
Tgt Ion: 266 Resp: 1005
 Ion Ratio Lower Upper
 266 100
 268 64.9 51.6 77.4
 264 63.7 50.2 75.2



#16
 Phenanthrene
 Concen: 0.02 ng
 RT: 17.97 min Scan# 2979
 Delta R.T. 0.00 min
 Lab File: BE089835.D
 Acq: 25 Mar 2015 6:56

Tgt Ion: 178 Resp: 3169
 Ion Ratio Lower Upper
 178 100
 176 25.2 15.4 23.0#
 179 20.7 12.2 18.4#

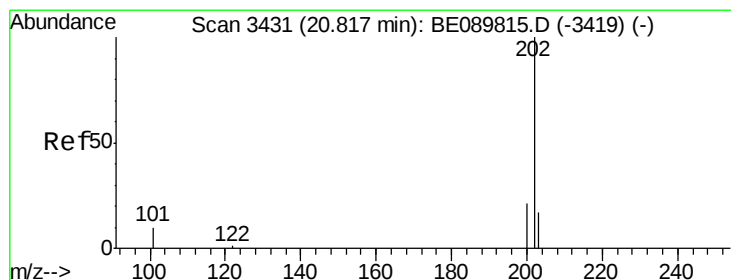
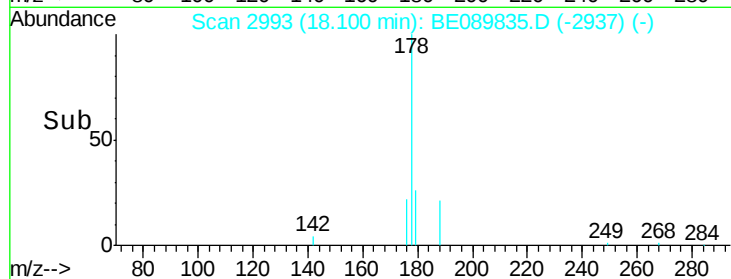
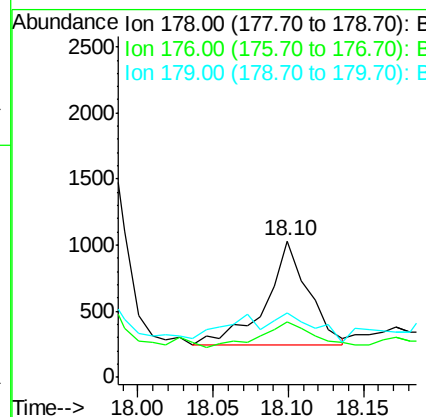
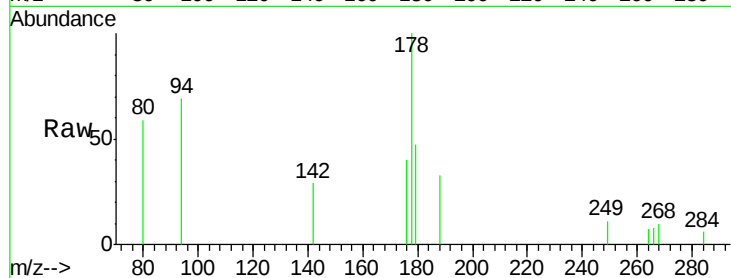




#17
 Anthracene
 Concen: 0.01 ng
 RT: 18.10 min Scan# 2993
 Delta R.T. 0.00 min
 Lab File: BE089835.D
 Acq: 25 Mar 2015 6:56

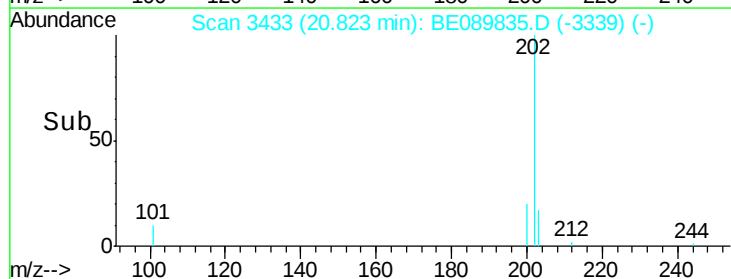
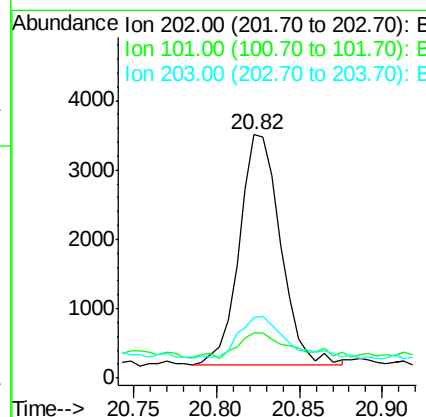
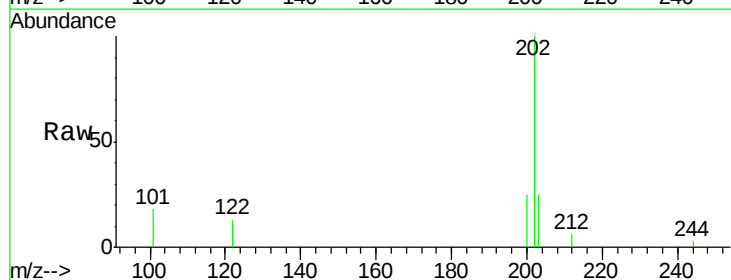
Instrument :
 BNA_E
 ClientSampled :
 MW-14

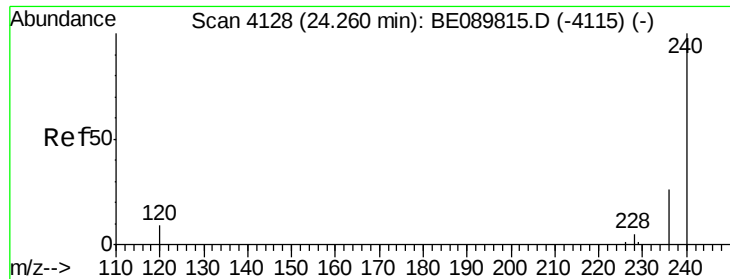
Tgt Ion:178 Resp: 1554
 Ion Ratio Lower Upper
 178 100
 176 29.7 14.6 21.8#
 179 26.8 12.1 18.1#



#18
 Fluoranthene
 Concen: 0.05 ng
 RT: 20.82 min Scan# 3433
 Delta R.T. 0.00 min
 Lab File: BE089835.D
 Acq: 25 Mar 2015 6:56

Tgt Ion:202 Resp: 5698
 Ion Ratio Lower Upper
 202 100
 101 13.3 8.2 12.2#
 203 22.8 14.2 21.4#





#19

Chrysene-d12

Concen: 5.00 ng

RT: 24.27 min Scan# 4130

Delta R.T. 0.00 min

Lab File: BE089835.D

Acq: 25 Mar 2015 6:56

Instrument :

BNA_E

ClientSampleId :

MW-14

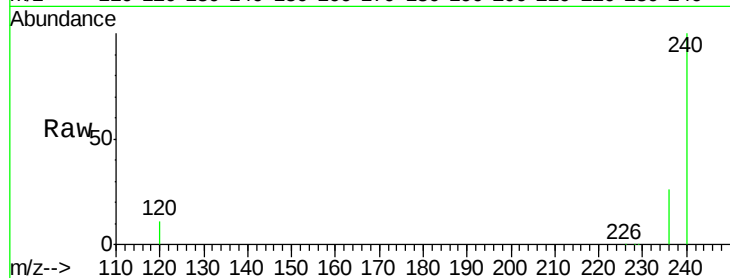
Tgt Ion:240 Resp: 597970

Ion Ratio Lower Upper

240 100

120 10.8 7.5 11.3

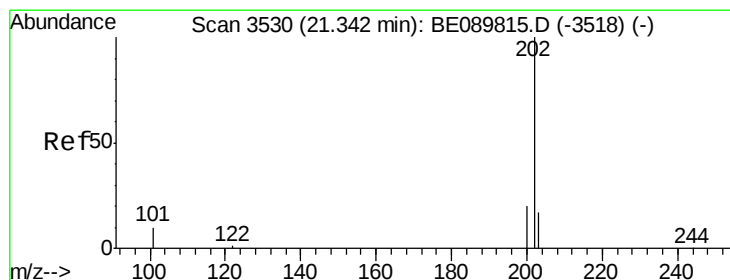
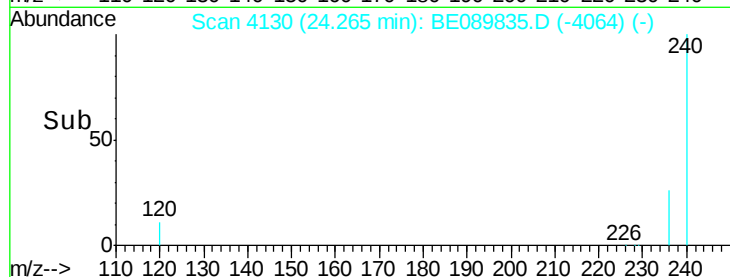
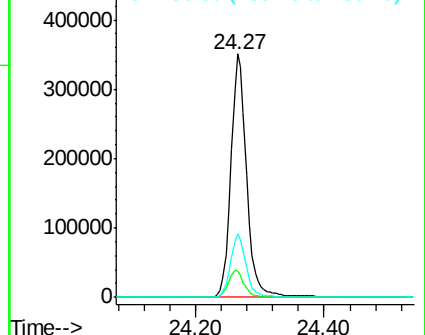
236 25.9 20.5 30.7



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: 0.03 ng

RT: 21.35 min Scan# 3532

Delta R.T. 0.00 min

Lab File: BE089835.D

Acq: 25 Mar 2015 6:56

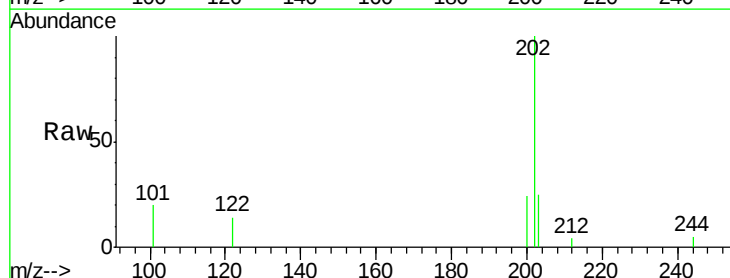
Tgt Ion:202 Resp: 5204

Ion Ratio Lower Upper

202 100

200 23.7 15.9 23.9

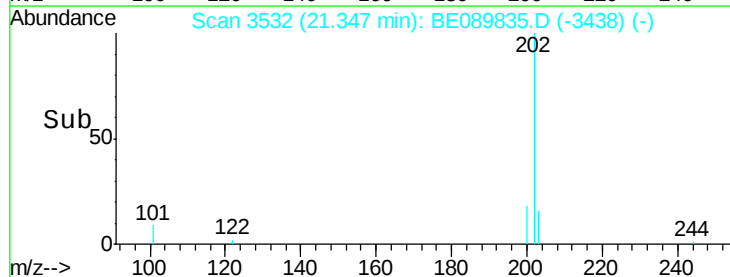
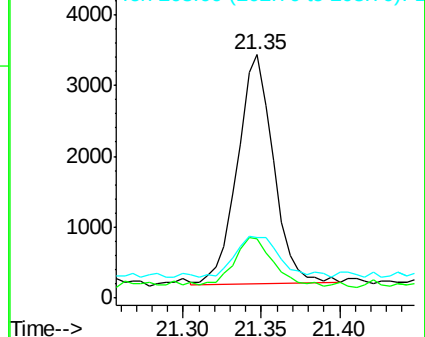
203 22.9 13.6 20.4#

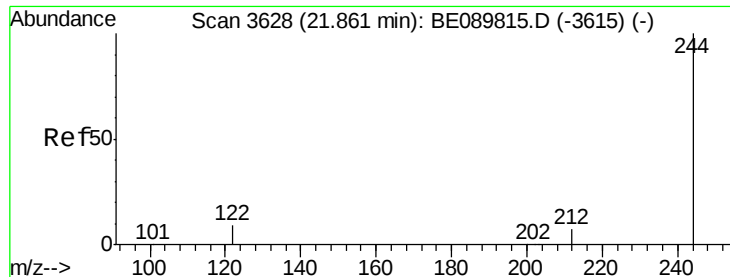


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 8.40 ng

RT: 21.87 min Scan# 3630

Delta R.T. 0.01 min

Lab File: BE089835.D

Acq: 25 Mar 2015 6:56

Instrument :

BNA_E

ClientSampleId :

MW-14

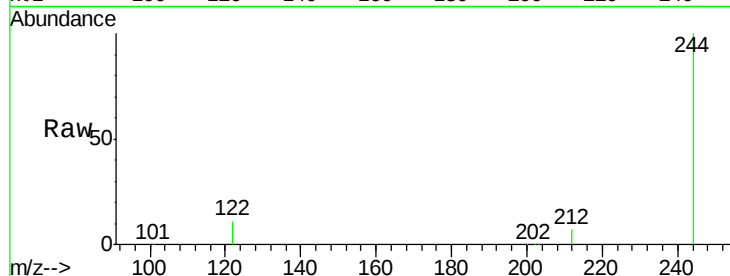
Tgt Ion:244 Resp: 741490

Ion Ratio Lower Upper

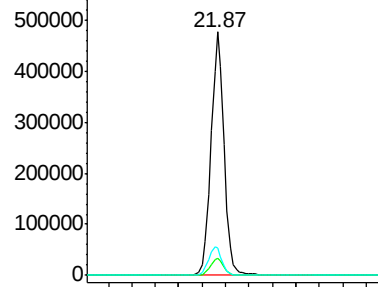
244 100

212 7.0 7.3 10.9#

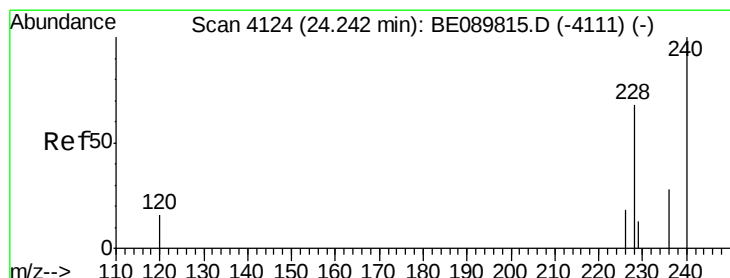
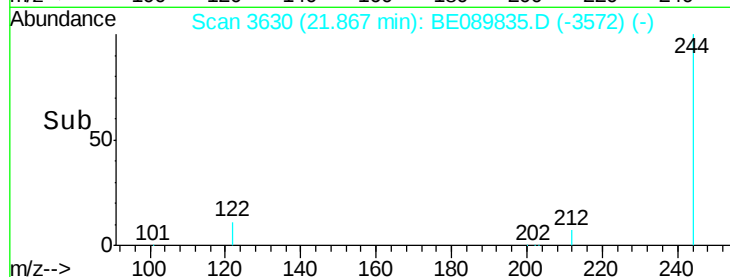
122 11.3 10.5 15.7



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



Time-->



#22

Benzo(a)anthracene

Concen: 0.02 ng

RT: 24.26 min Scan# 4129

Delta R.T. 0.01 min

Lab File: BE089835.D

Acq: 25 Mar 2015 6:56

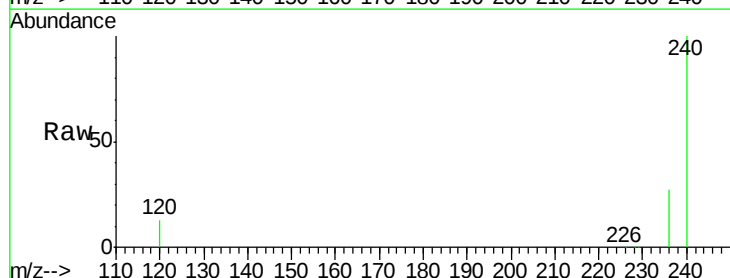
Tgt Ion:228 Resp: 2329

Ion Ratio Lower Upper

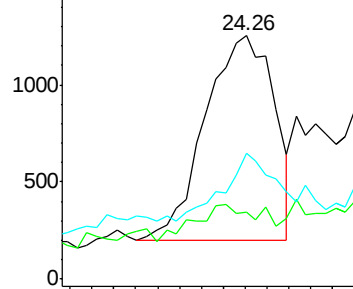
228 100

226 27.3 19.8 29.8

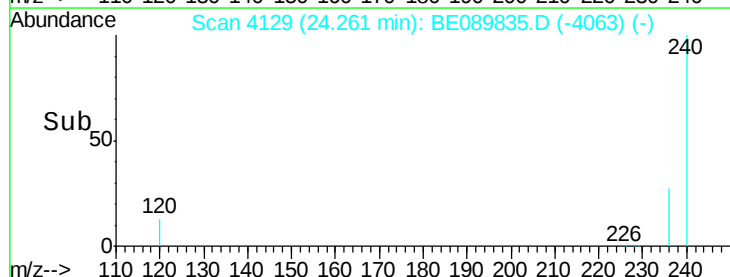
229 51.5 16.3 24.5#

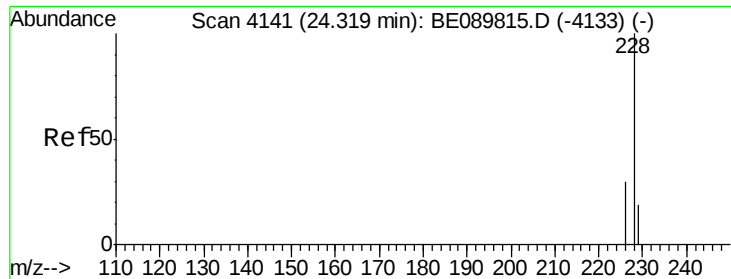


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



Time-->





#23

Chrysene

Concen: 0.02 ng

RT: 24.32 min Scan# 4143

Delta R.T. 0.01 min

Lab File: BE089835.D

Acq: 25 Mar 2015 6:56

Instrument :

BNA_E

ClientSampleId :

MW-14

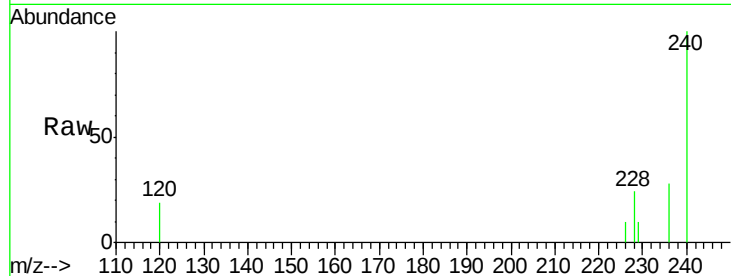
Tgt Ion: 228 Resp: 2424

Ion Ratio Lower Upper

228 100

226 42.6 23.0 34.4#

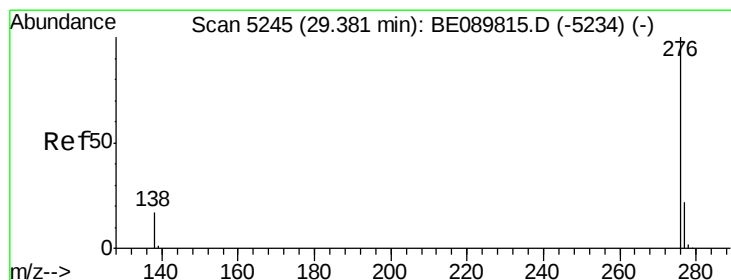
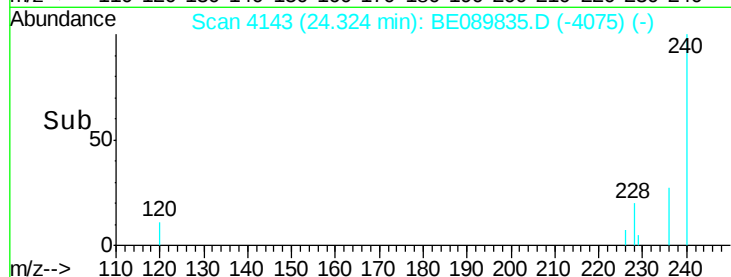
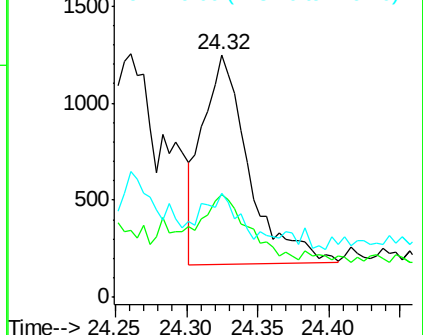
229 43.1 15.8 23.6#



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.43 ng

RT: 29.39 min Scan# 5248

Delta R.T. 0.01 min

Lab File: BE089835.D

Acq: 25 Mar 2015 6:56

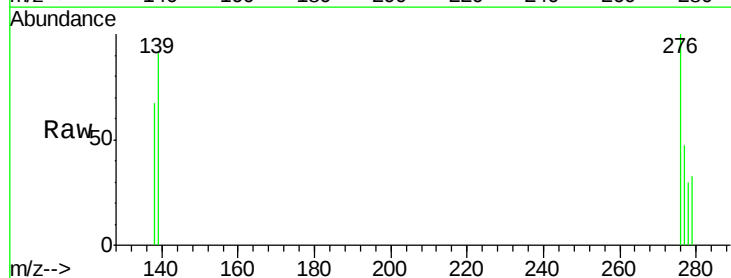
Tgt Ion: 276 Resp: 1027

Ion Ratio Lower Upper

276 100

138 0.0 4.3 6.5#

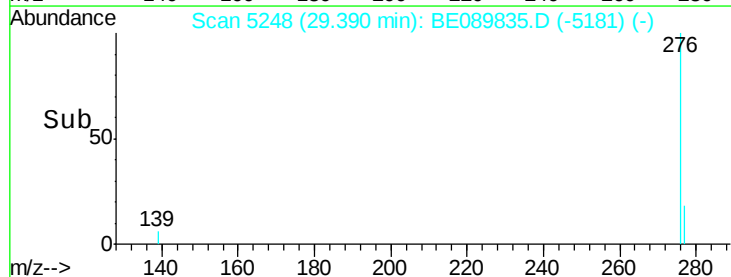
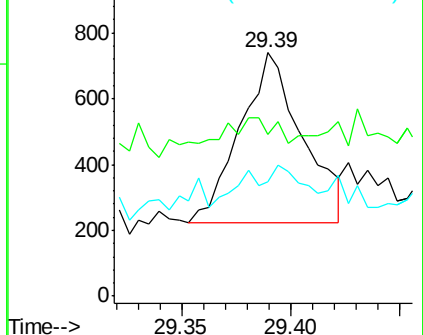
277 5.9 9.0 13.4#

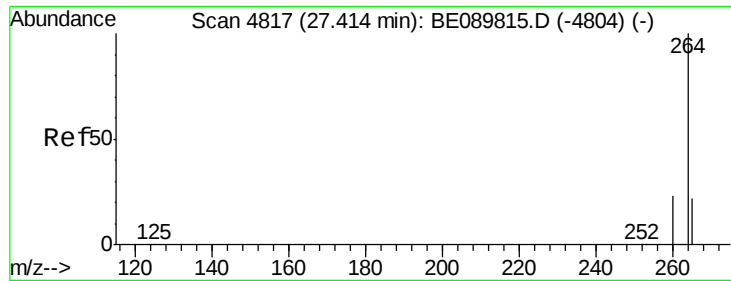


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

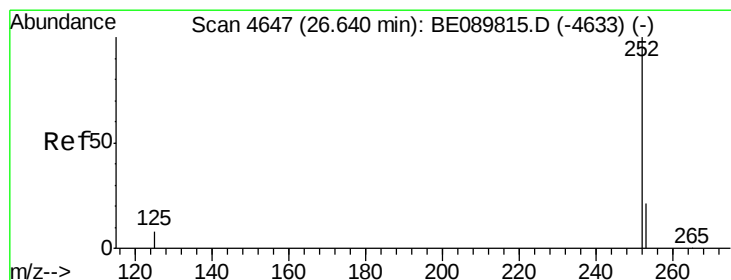
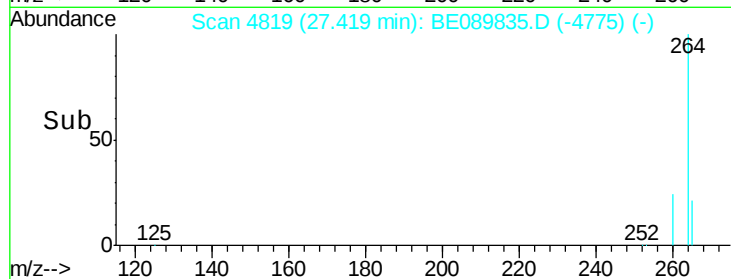
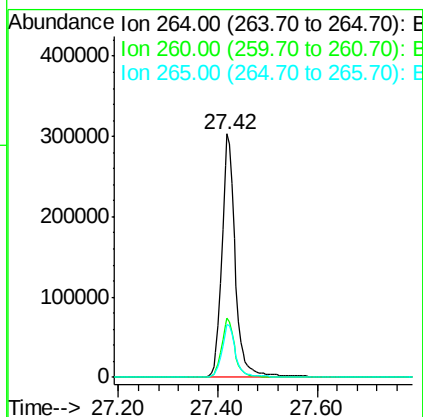
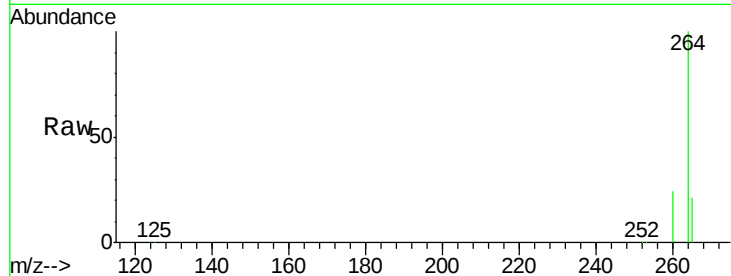




#25
Perylene-d12
Concen: 5.00 ng
RT: 27.42 min Scan# 4819
Delta R.T. 0.00 min
Lab File: BE089835.D
Acq: 25 Mar 2015 6:56

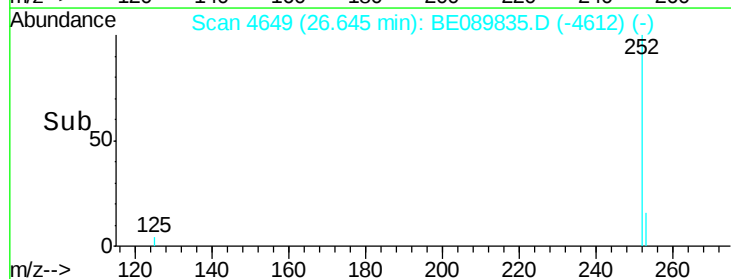
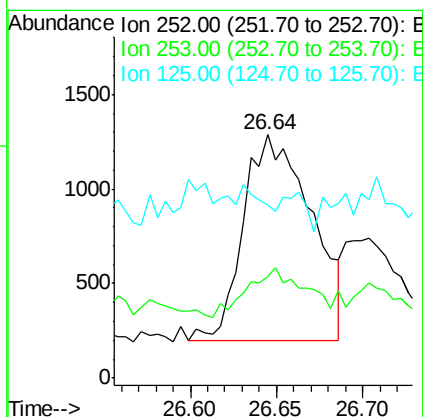
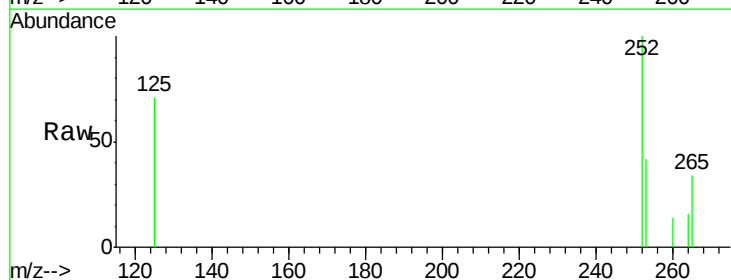
Instrument :
BNA_E
ClientSampleId :
MW-14

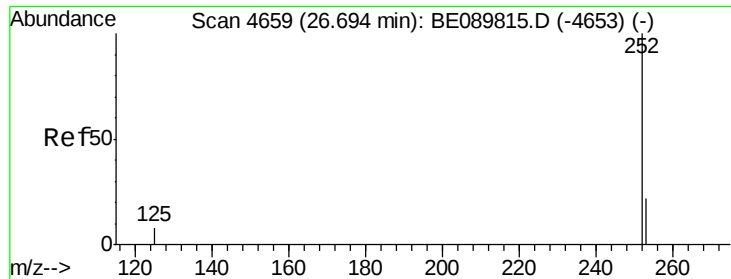
Tgt Ion: 264 Resp: 568244
Ion Ratio Lower Upper
264 100
260 24.3 18.2 27.2
265 21.5 17.3 25.9



#26
Benzo(b)fluoranthene
Concen: 0.33 ng
RT: 26.64 min Scan# 4649
Delta R.T. 0.01 min
Lab File: BE089835.D
Acq: 25 Mar 2015 6:56

Tgt Ion: 252 Resp: 2982
Ion Ratio Lower Upper
252 100
253 41.6 17.8 26.6#
125 70.9 8.7 13.1#





#27

Benzo(k)fluoranthene

Concen: 0.01 ng

RT: 26.70 min Scan# 4662

Delta R.T. 0.00 min

Lab File: BE089835.D

Acq: 25 Mar 2015 6:56

Instrument :

BNA_E

ClientSampleId :

MW-14

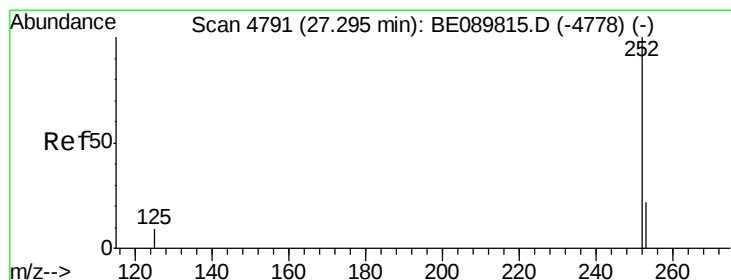
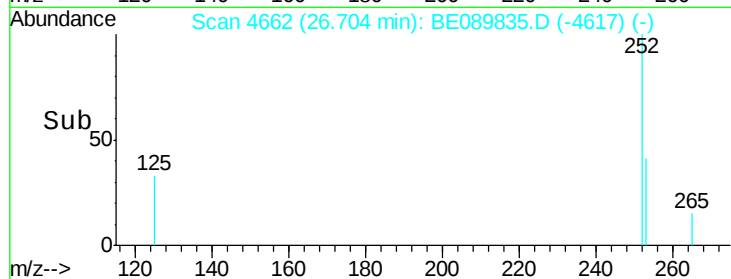
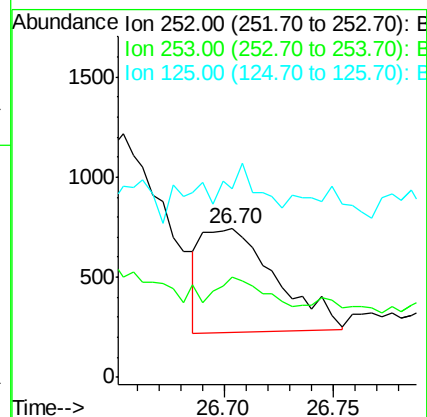
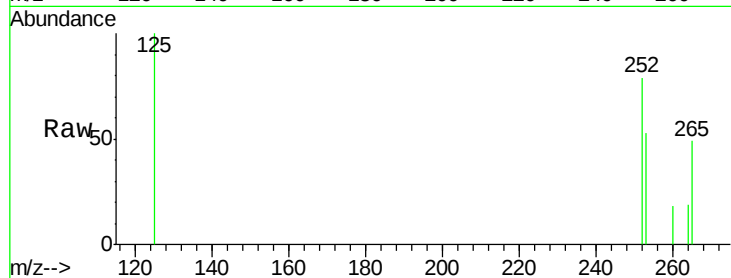
Tgt Ion:252 Resp: 1221

Ion Ratio Lower Upper

252 100

253 67.4 18.6 28.0#

125 126.5 10.8 16.2#



#28

Benzo(a)pyrene

Concen: 0.30 ng

RT: 27.30 min Scan# 4793

Delta R.T. 0.00 min

Lab File: BE089835.D

Acq: 25 Mar 2015 6:56

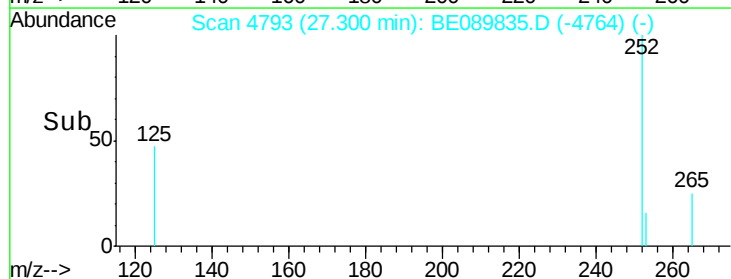
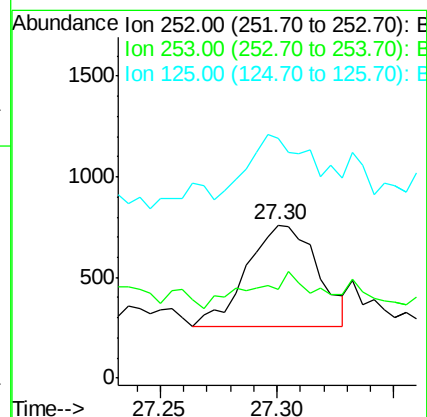
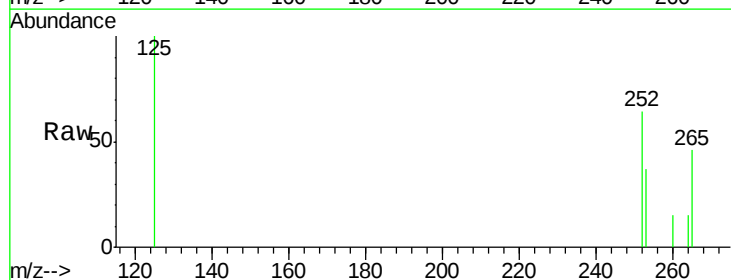
Tgt Ion:252 Resp: 1070

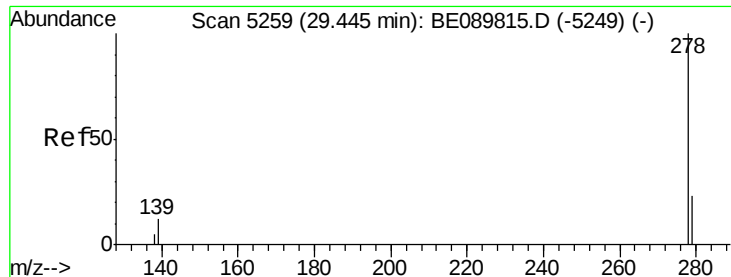
Ion Ratio Lower Upper

252 100

253 58.3 21.0 31.4#

125 156.4 13.3 19.9#





#29

Dibenzo(a,h)anthracene

Concen: 0.26 ng

RT: 29.44 min Scan# 5260

Delta R.T. 0.00 min

Lab File: BE089835.D

Acq: 25 Mar 2015 6:56

Instrument :

BNA_E

ClientSampleId :

MW-14

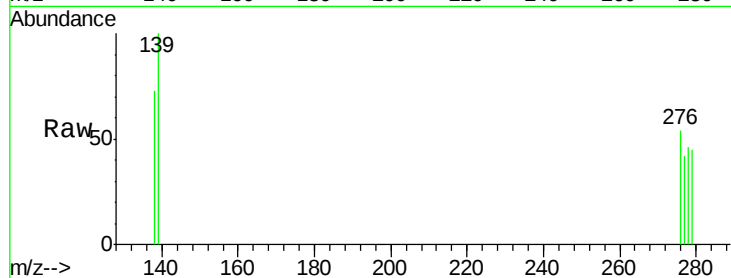
Tgt Ion: 278 Resp: 292

Ion Ratio Lower Upper

278 100

139 217.0 20.0 30.0#

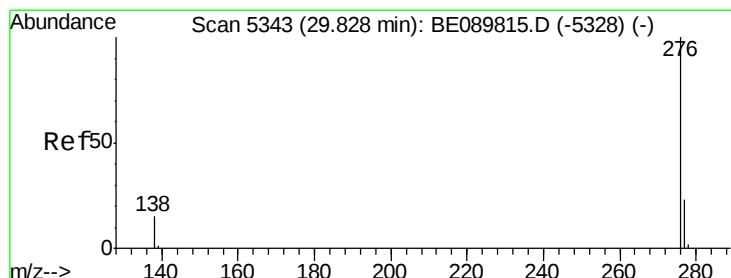
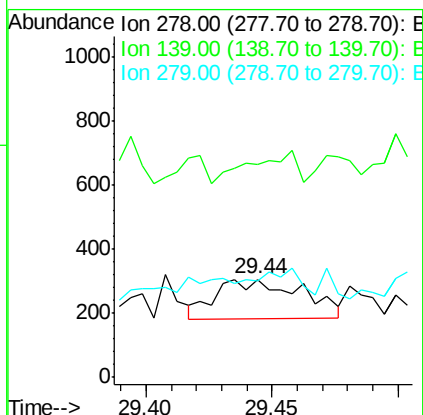
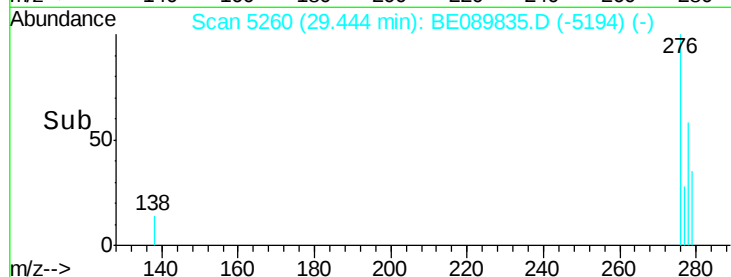
279 98.0 28.9 43.3#



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: 0.26 ng

RT: 29.84 min Scan# 5346

Delta R.T. 0.02 min

Lab File: BE089835.D

Acq: 25 Mar 2015 6:56

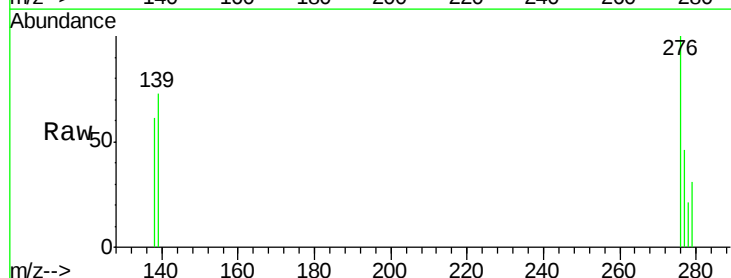
Tgt Ion: 276 Resp: 1531

Ion Ratio Lower Upper

276 100

277 46.2 19.2 28.8#

138 60.6 22.9 34.3#



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

