

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032415\
 Data File : BE089821.D
 Acq On : 24 Mar 2015 19:32
 Operator : TP/JJ
 Sample : PB82216BSD
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB82216BSD

Quant Time: Mar 25 02:29:53 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE032415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 24 18:03:12 2015
 Response via : Initial Calibration

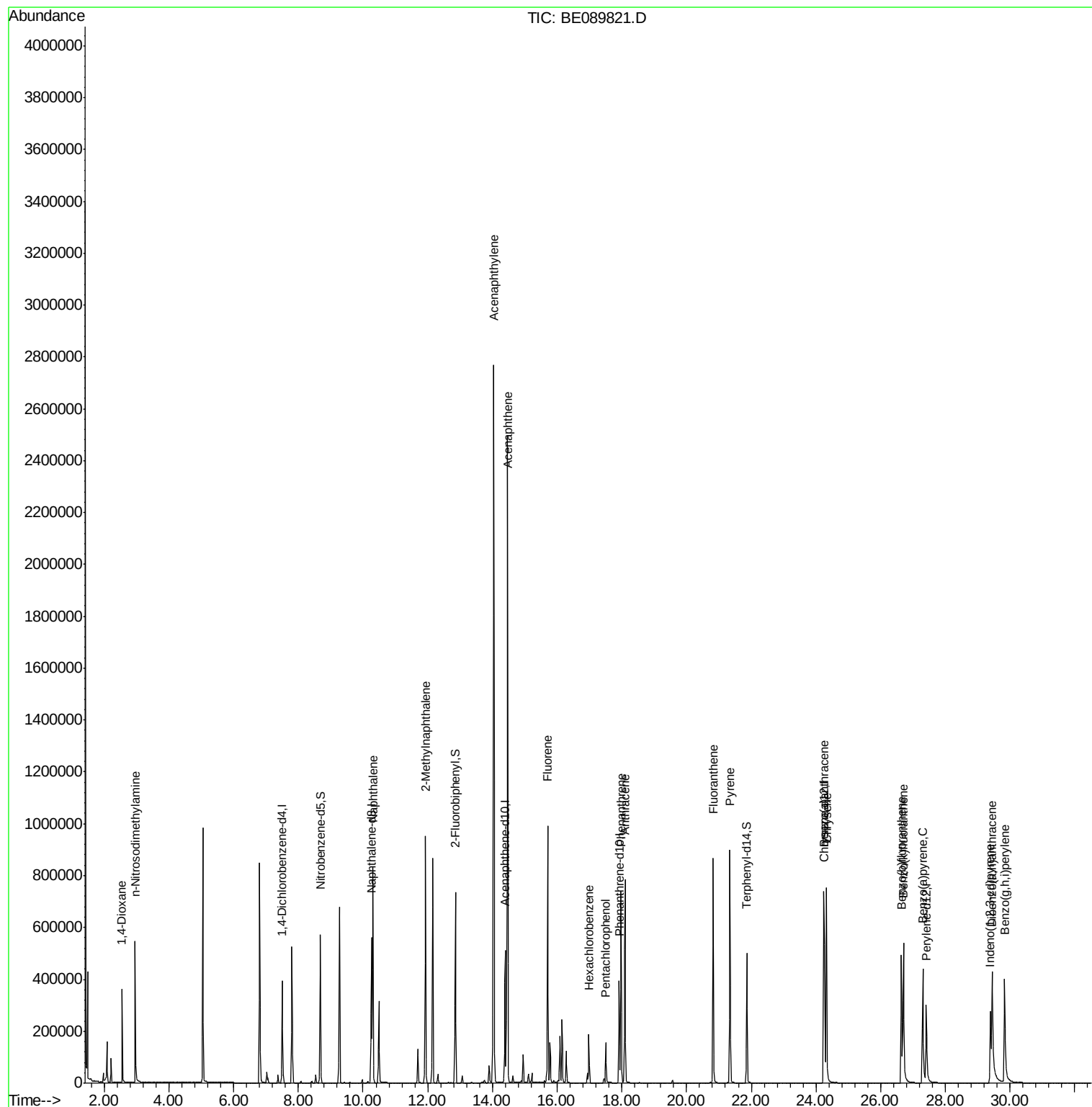
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.50	152	173302	5.00	ng	0.00
4) Naphthalene-d8	10.26	136	720331	5.00	ng	0.00
8) Acenaphthene-d10	14.40	164	318580	5.00	ng	0.00
13) Phenanthrene-d10	17.92	188	527260	5.00	ng	0.00
19) Chrysene-d12	24.26	240	493412	5.00	ng	0.00
25) Perylene-d12	27.41	264	412392	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	8.68	82	482376	9.16	ng	0.00
9) 2-Fluorobiphenyl	12.85	172	709211	9.51	ng	0.00
21) Terphenyl-d14	21.86	244	658844	9.05	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.55	88	180716	8.12	ng	91
3) n-Nitrosodimethylamine	2.95	42	263764	8.00	ng	# 77
6) Naphthalene	10.31	128	1055583	7.41	ng	96
7) 2-Methylnaphthalene	11.93	142	637842	8.06	ng	99
10) Acenaphthylene	14.04	152	3708577	8.14	ng	99
11) Acenaphthene	14.47	154	534586	7.66	ng	84
12) Fluorene	15.71	166	674606	7.97	ng	93
14) Hexachlorobenzene	16.99	284	139525	7.96	ng	94
15) Pentachlorophenol	17.50	266	111648	13.37	ng	99
16) Phenanthrene	17.97	178	906212	7.82	ng	100
17) Anthracene	18.10	178	920750	8.89	ng	99
18) Fluoranthene	20.82	202	937936	8.98	ng	99
20) Pyrene	21.34	202	987770	7.89	ng	97
22) Benzo(a)anthracene	24.25	228	819735	8.88	ng	97
23) Chrysene	24.32	228	870499	8.64	ng	99
24) Indeno(1,2,3-cd)pyrene	29.39	276	406740	4.21	ng	# 68
26) Benzo(b)fluoranthene	26.64	252	682785	7.69	ng	98
27) Benzo(k)fluoranthene	26.70	252	904856	10.71	ng	# 95
28) Benzo(a)pyrene	27.30	252	678575	8.14	ng	# 90
29) Dibenzo(a,h)anthracene	29.44	278	574908	7.33	ng	# 78
30) Benzo(g,h,i)perylene	29.83	276	694434	7.98	ng	# 89

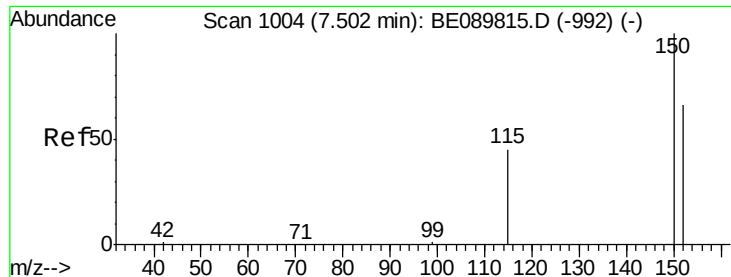
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE089821.D

Acq: 24 Mar 2015 19:32

Instrument :

BNA_E

ClientSampleId :

PB82216BSD

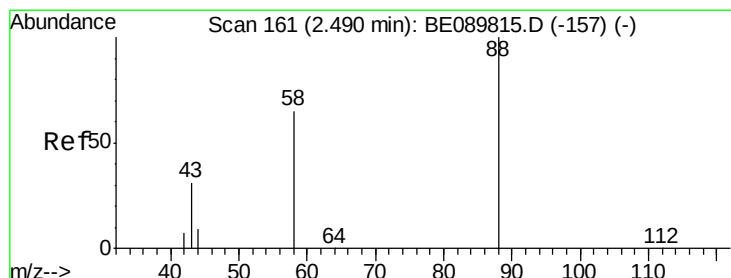
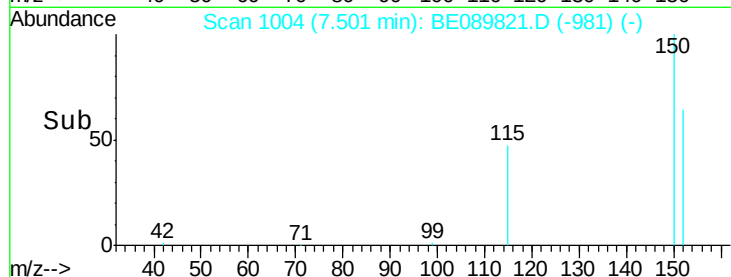
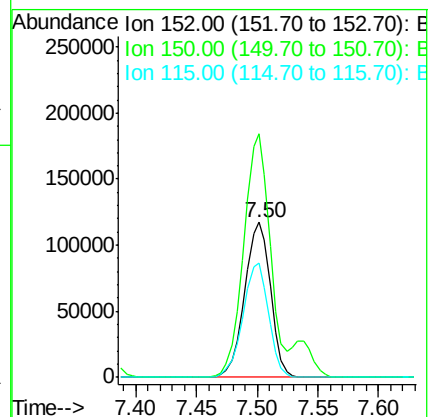
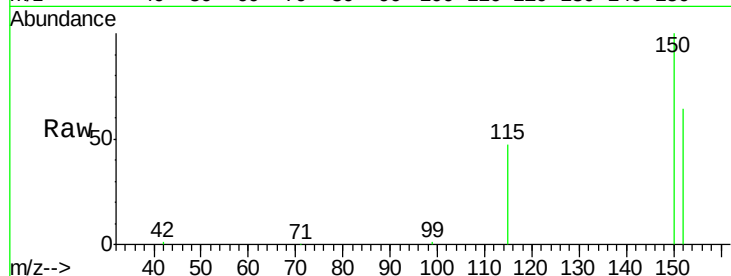
Tgt Ion:152 Resp: 173302

Ion Ratio Lower Upper

152 100

150 157.0 125.5 188.3

115 73.5 58.0 87.0



#2

1,4-Dioxane

Concen: 8.12 ng

RT: 2.55 min Scan# 170

Delta R.T. 0.03 min

Lab File: BE089821.D

Acq: 24 Mar 2015 19:32

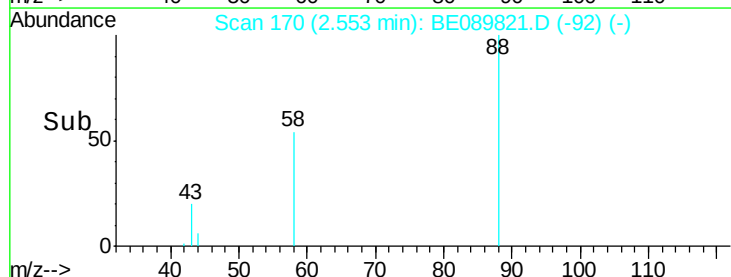
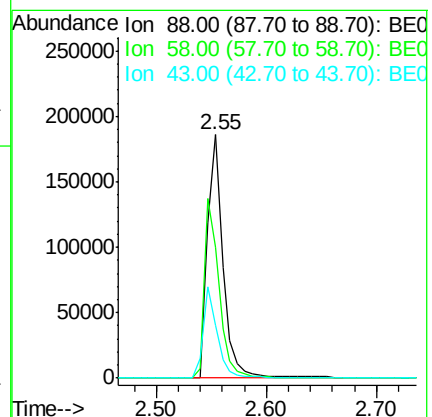
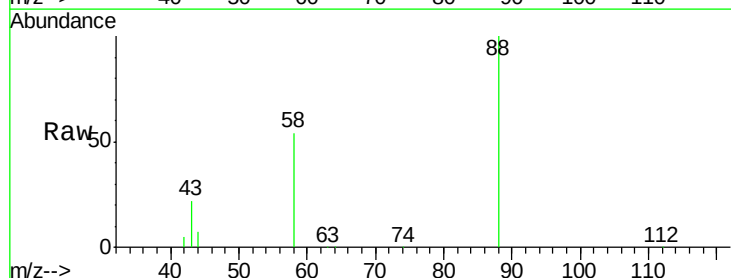
Tgt Ion: 88 Resp: 180716

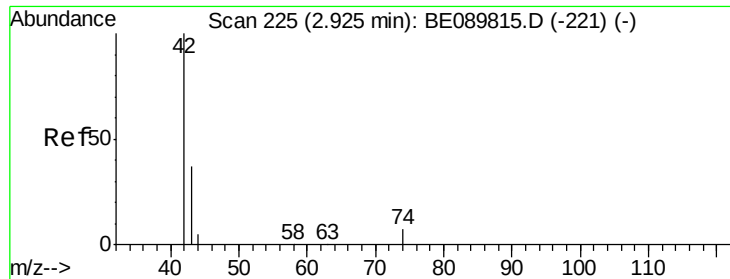
Ion Ratio Lower Upper

88 100

58 69.9 48.6 72.8

43 33.4 28.6 43.0





#3

n-Nitrosodimethylamine

Concen: 8.00 ng

RT: 2.95 min Scan# 229

Delta R.T. -0.04 min

Lab File: BE089821.D

Acq: 24 Mar 2015 19:32

Instrument :

BNA_E

ClientSampleId :

PB82216BSD

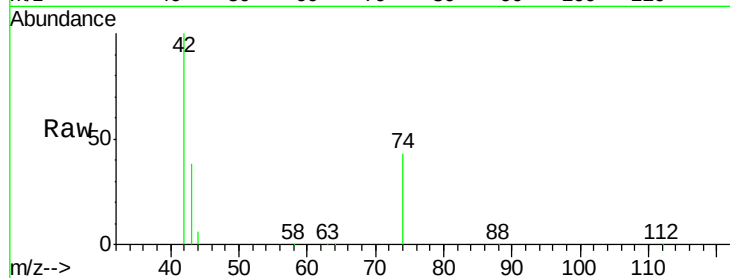
Tgt Ion: 42 Resp: 263764

Ion Ratio Lower Upper

42 100

74 108.2 68.7 103.1#

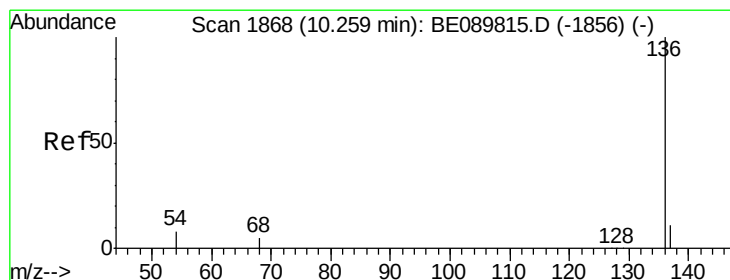
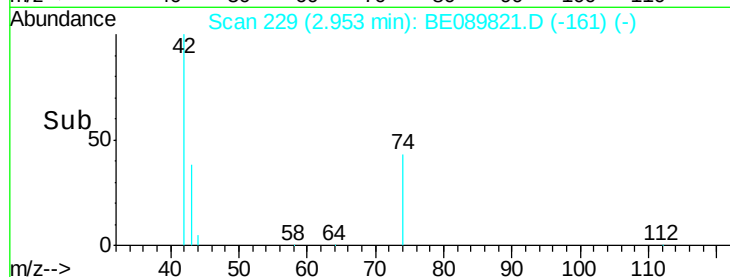
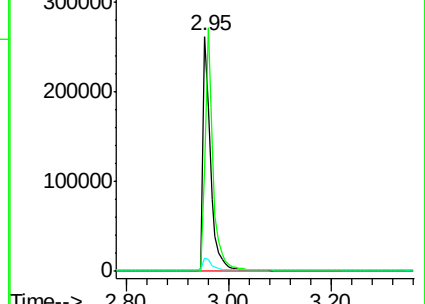
44 5.5 6.2 9.4#



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: BE089821.D

Acq: 24 Mar 2015 19:32

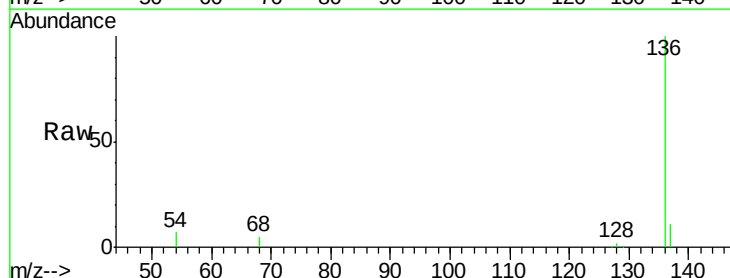
Tgt Ion: 136 Resp: 720331

Ion Ratio Lower Upper

136 100

137 11.2 8.8 13.2

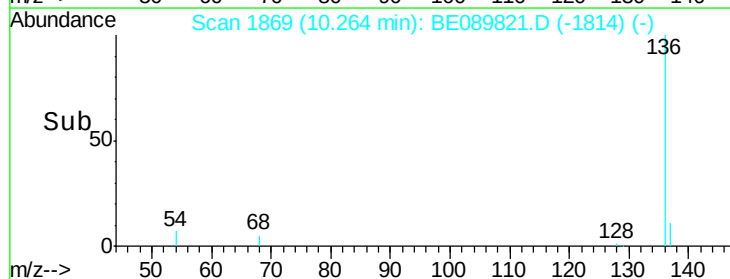
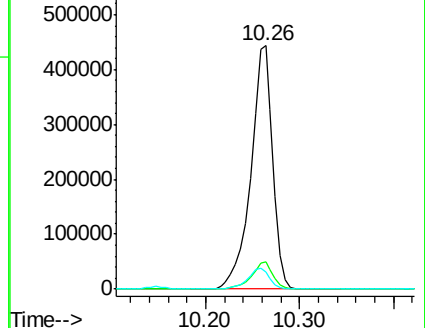
54 7.3 7.0 10.4

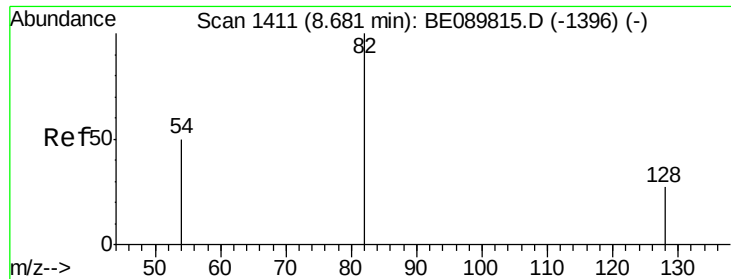


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 9.16 ng

RT: 8.68 min Scan# 1412

Delta R.T. 0.00 min

Lab File: BE089821.D

Acq: 24 Mar 2015 19:32

Instrument :

BNA_E

ClientSampleId :

PB82216BSD

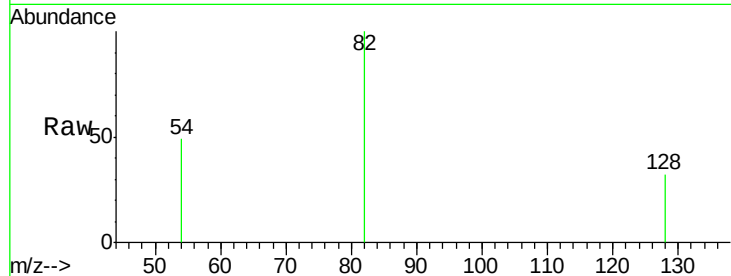
Tgt Ion: 82 Resp: 482376

Ion Ratio Lower Upper

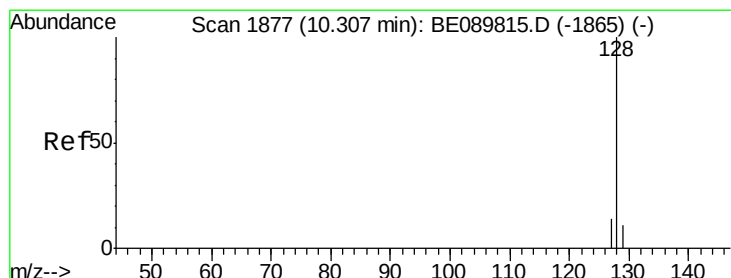
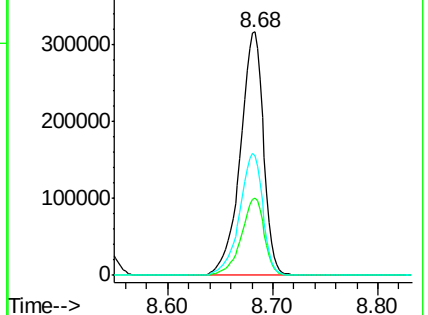
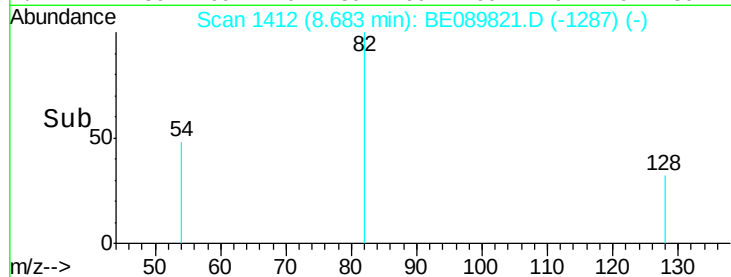
82 100

128 31.9 24.6 37.0

54 49.0 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: 7.41 ng

RT: 10.31 min Scan# 1877

Delta R.T. 0.00 min

Lab File: BE089821.D

Acq: 24 Mar 2015 19:32

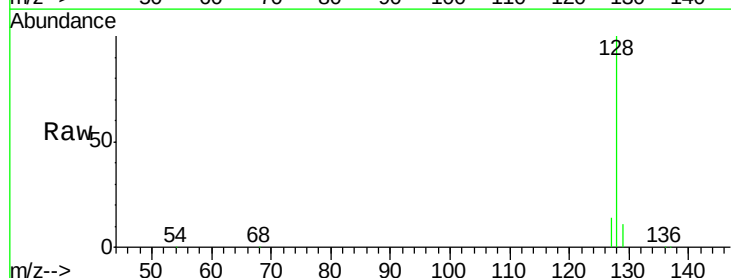
Tgt Ion: 128 Resp: 1055583

Ion Ratio Lower Upper

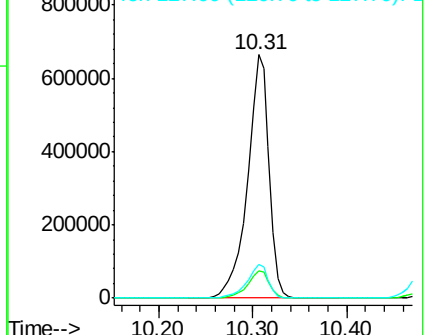
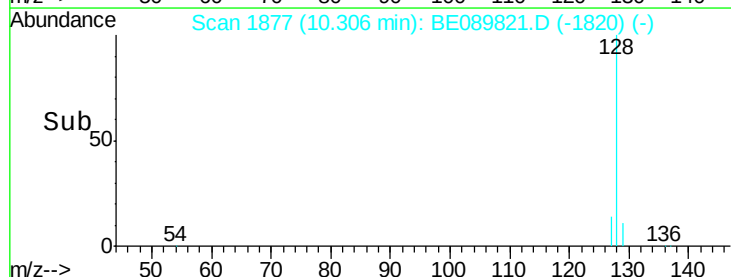
128 100

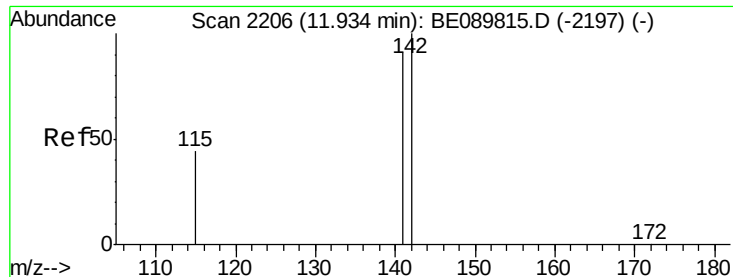
129 11.1 10.0 15.0

127 14.0 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: 8.06 ng

RT: 11.93 min Scan# 2207

Delta R.T. -0.00 min

Lab File: BE089821.D

Acq: 24 Mar 2015 19:32

Instrument :

BNA_E

ClientSampleId :

PB82216BSD

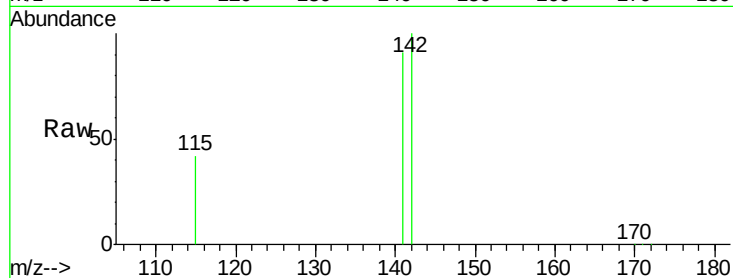
Tgt Ion:142 Resp: 637842

Ion Ratio Lower Upper

142 100

141 91.2 72.8 109.2

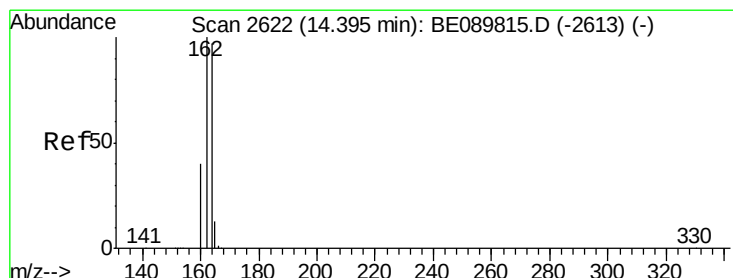
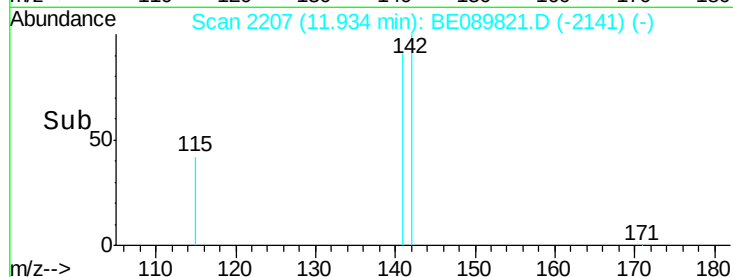
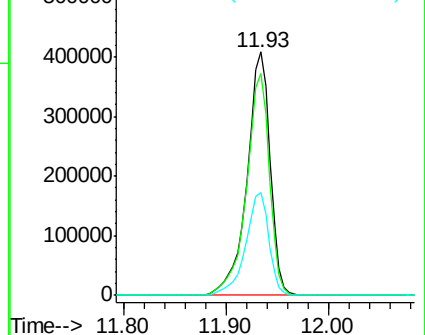
115 42.3 32.9 49.3



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: 14.40 min Scan# 2623

Delta R.T. 0.01 min

Lab File: BE089821.D

Acq: 24 Mar 2015 19:32

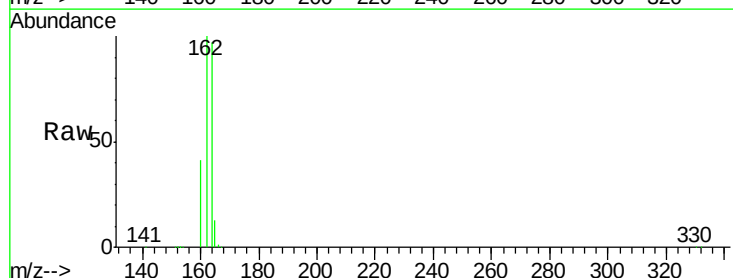
Tgt Ion:164 Resp: 318580

Ion Ratio Lower Upper

164 100

162 103.2 87.6 131.4

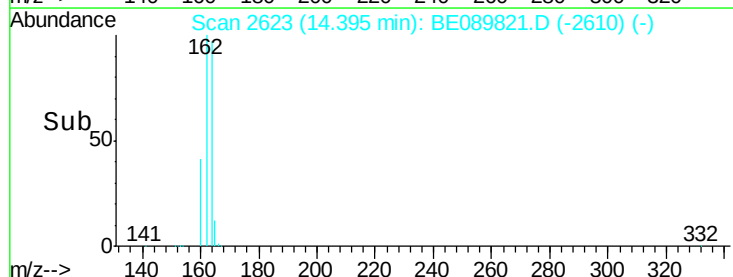
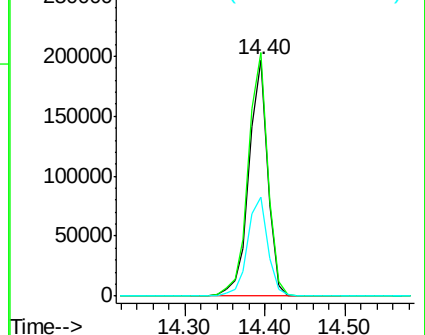
160 41.8 36.7 55.1

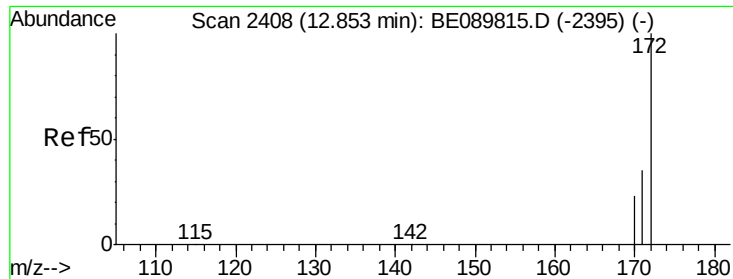


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

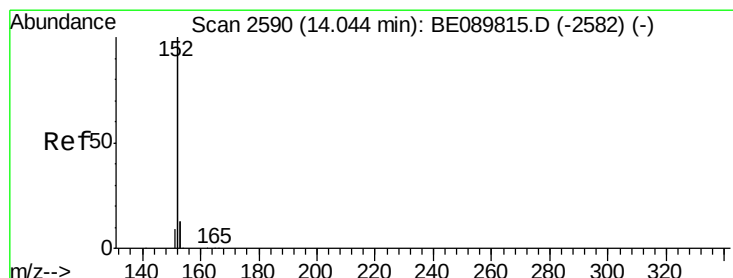
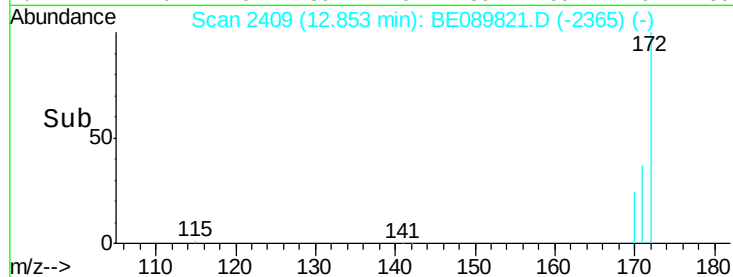
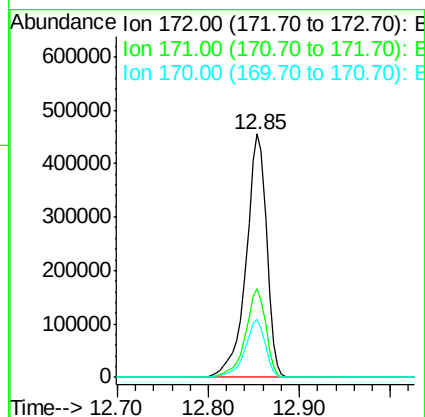
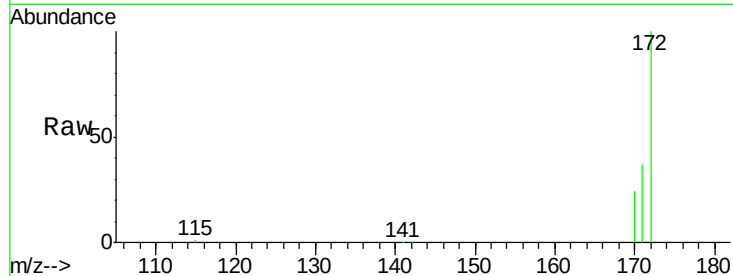




#9
2-Fluorobiphenyl
Concen: 9.51 ng
RT: 12.85 min Scan# 2409
Delta R.T. 0.00 min
Lab File: BE089821.D
Acq: 24 Mar 2015 19:32

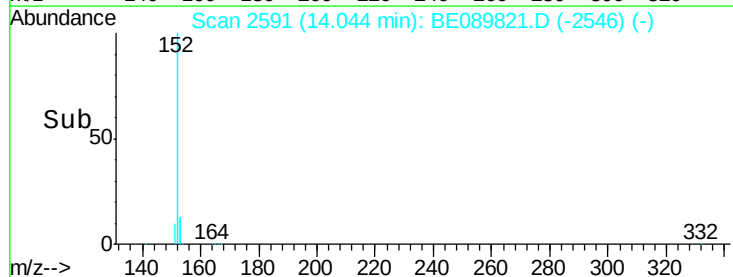
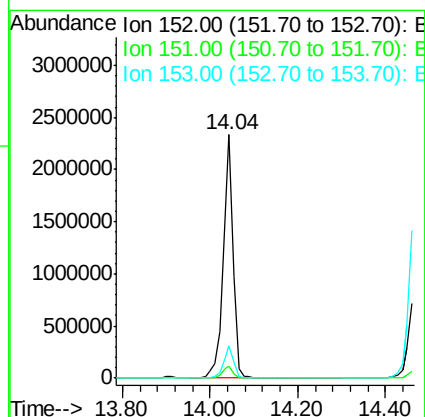
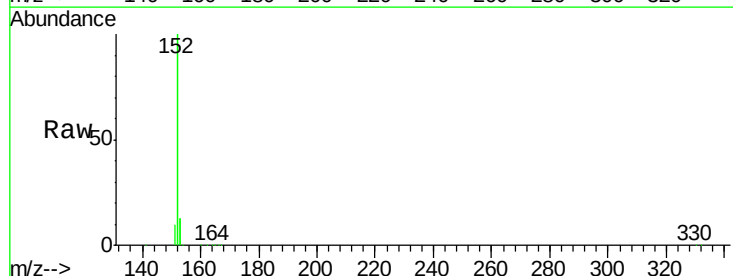
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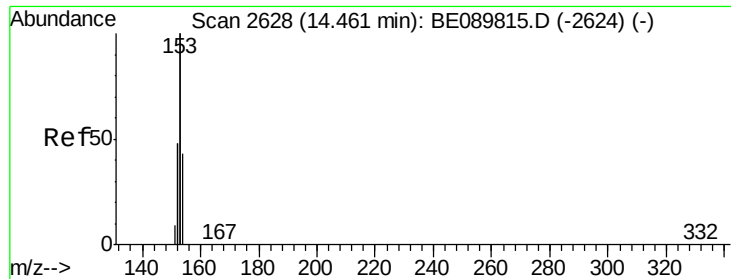
Tgt Ion:172 Resp: 709211
Ion Ratio Lower Upper
172 100
171 36.6 30.8 46.2
170 23.9 21.0 31.4



#10
Acenaphthylene
Concen: 8.14 ng
RT: 14.04 min Scan# 2591
Delta R.T. -0.00 min
Lab File: BE089821.D
Acq: 24 Mar 2015 19:32

Tgt Ion:152 Resp: 3708577
Ion Ratio Lower Upper
152 100
151 5.1 3.9 5.9
153 13.1 11.0 16.4





#11

Acenaphthene

Concen: 7.66 ng

RT: 14.47 min Scan# 2630

Delta R.T. 0.01 min

Lab File: BE089821.D

Acq: 24 Mar 2015 19:32

Instrument :

BNA_E

ClientSampleId :

PB82216BSD

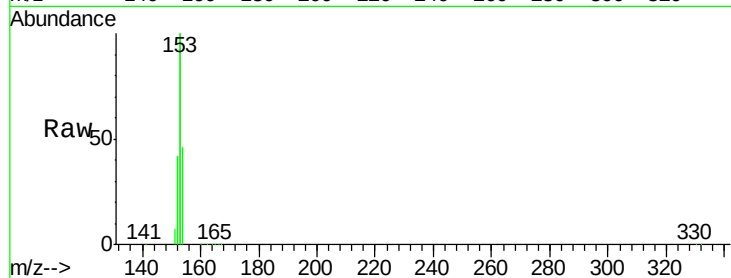
Tgt Ion:154 Resp: 534586

Ion Ratio Lower Upper

154 100

153 461.1 401.5 602.3

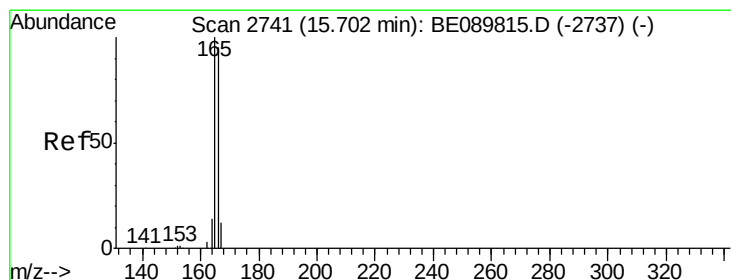
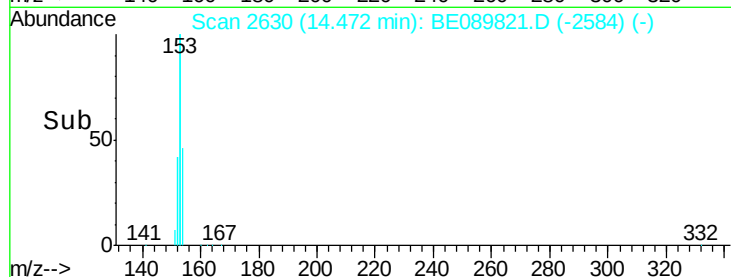
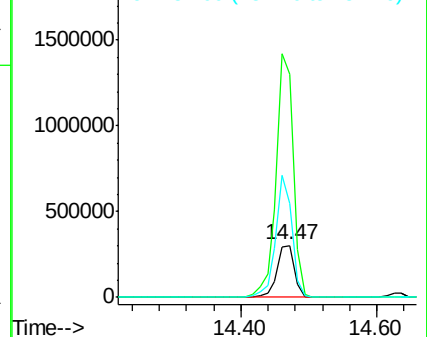
152 218.4 198.6 298.0



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: 7.97 ng

RT: 15.71 min Scan# 2743

Delta R.T. -0.00 min

Lab File: BE089821.D

Acq: 24 Mar 2015 19:32

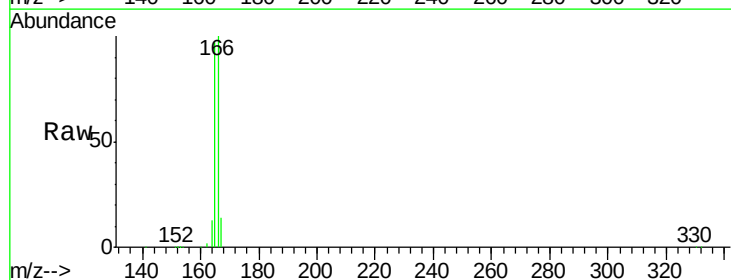
Tgt Ion:166 Resp: 674606

Ion Ratio Lower Upper

166 100

165 99.4 85.1 127.7

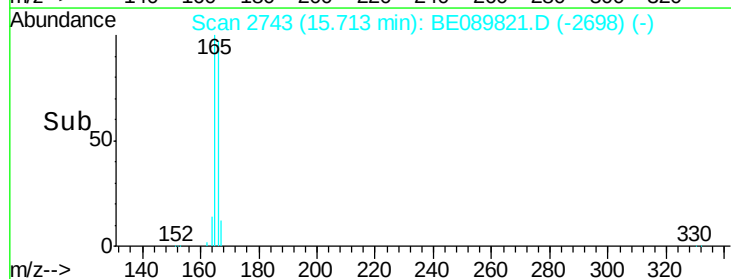
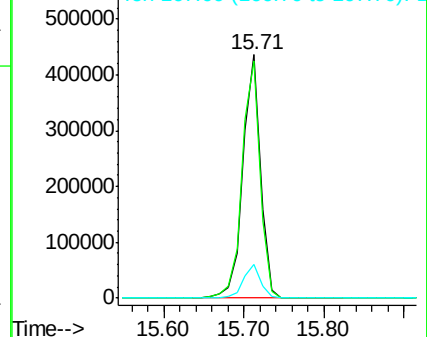
167 13.4 12.2 18.4

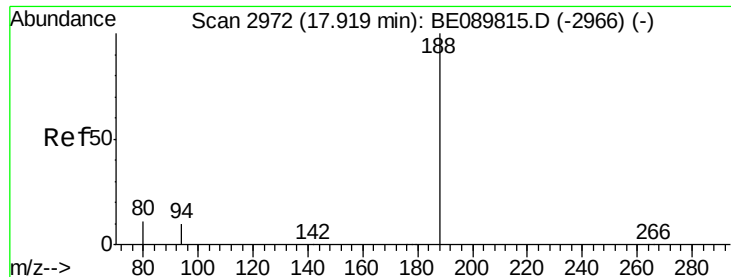


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

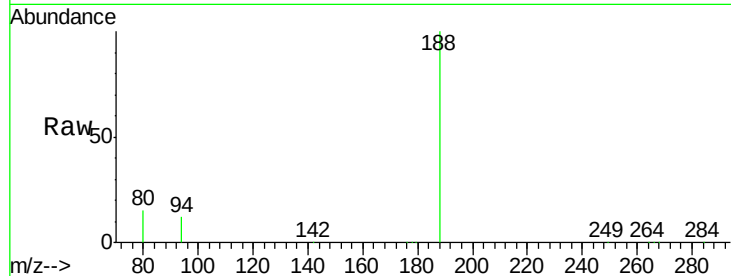




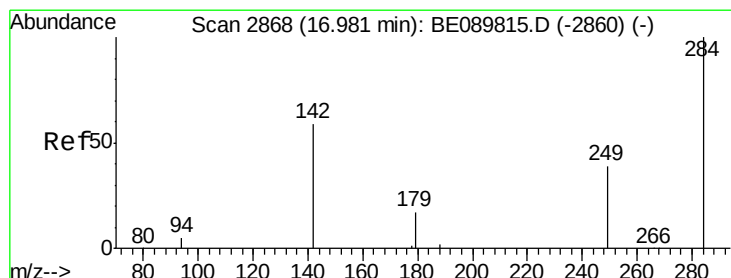
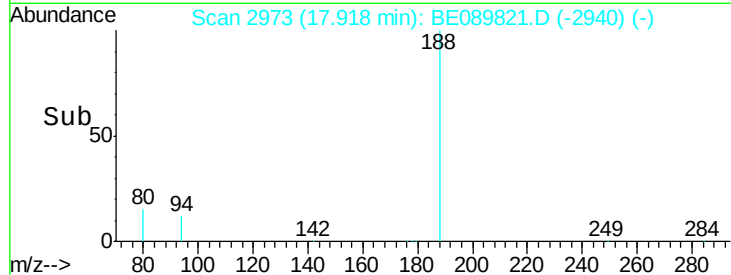
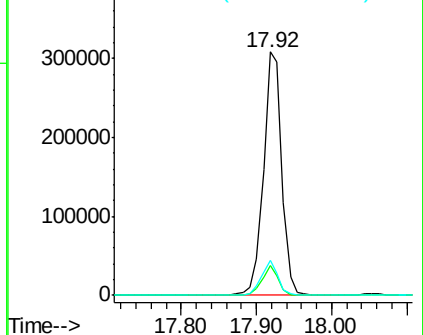
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.92 min Scan# 2973
Delta R.T. -0.00 min
Lab File: BE089821.D
Acq: 24 Mar 2015 19:32

Instrument :
BNA_E
ClientSampleId :
PB82216BSD

Tgt Ion:188 Resp: 527260
Ion Ratio Lower Upper
188 100
94 12.0 8.5 12.7
80 14.6 10.0 15.0

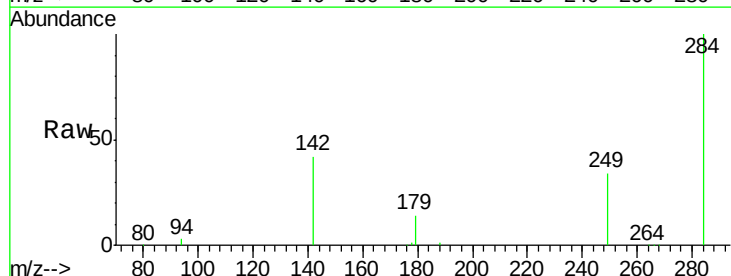


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

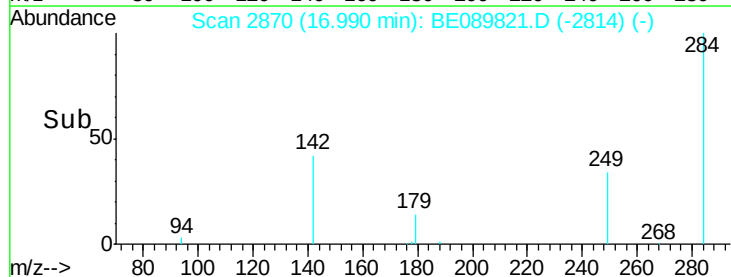
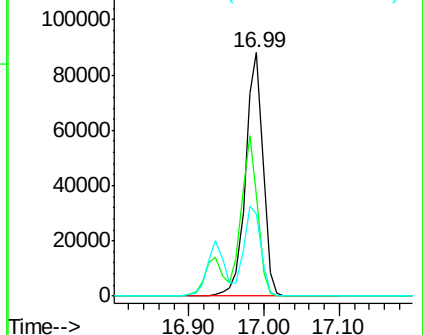


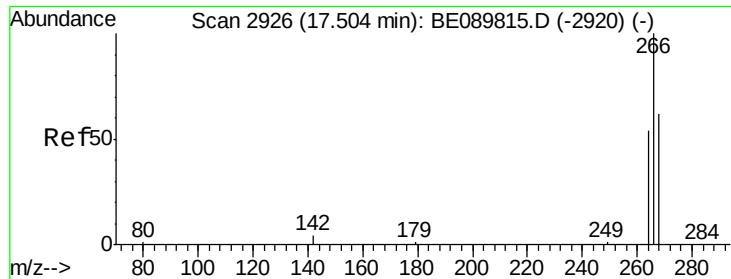
#14
Hexachlorobenzene
Concen: 7.96 ng
RT: 16.99 min Scan# 2870
Delta R.T. 0.01 min
Lab File: BE089821.D
Acq: 24 Mar 2015 19:32

Tgt Ion:284 Resp: 139525
Ion Ratio Lower Upper
284 100
142 60.5 53.3 79.9
249 37.2 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

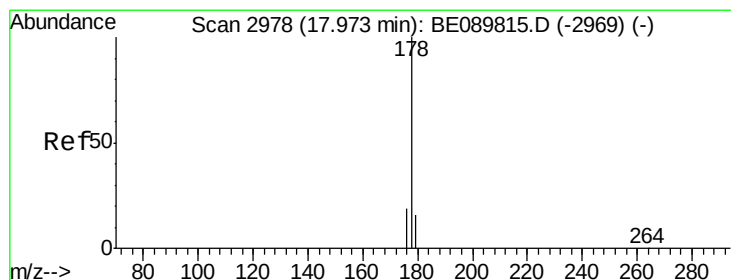
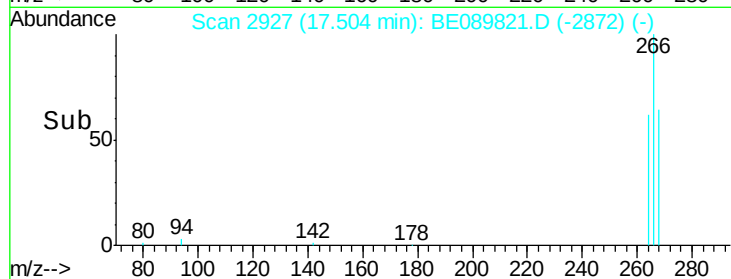
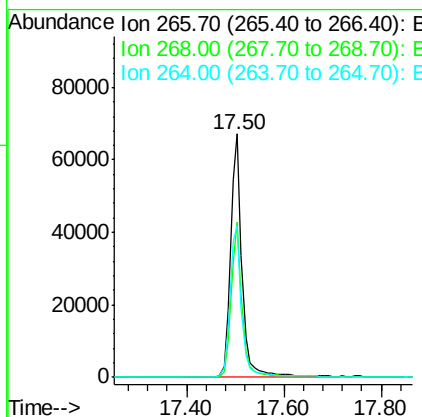
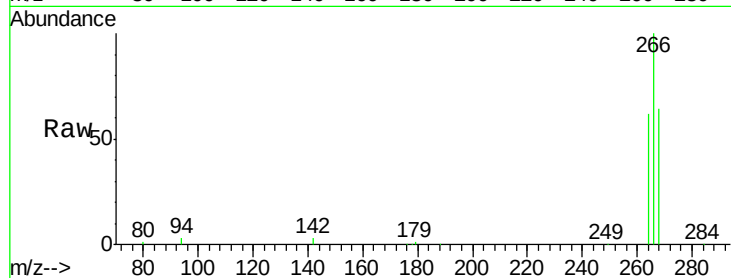




#15
 Pentachlorophenol
 Concen: 13.37 ng
 RT: 17.50 min Scan# 2927
 Delta R.T. -0.00 min
 Lab File: BE089821.D
 Acq: 24 Mar 2015 19:32

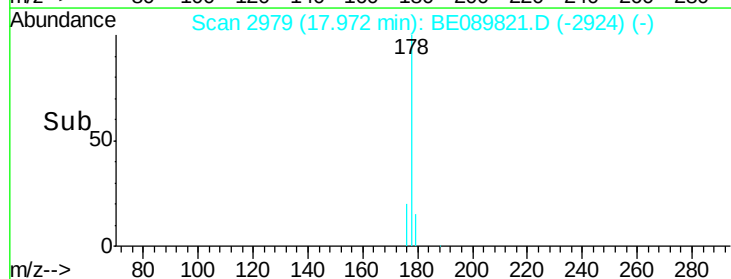
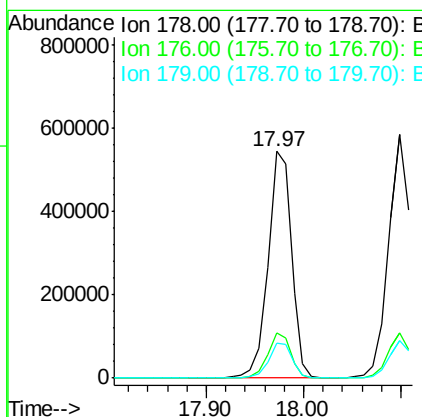
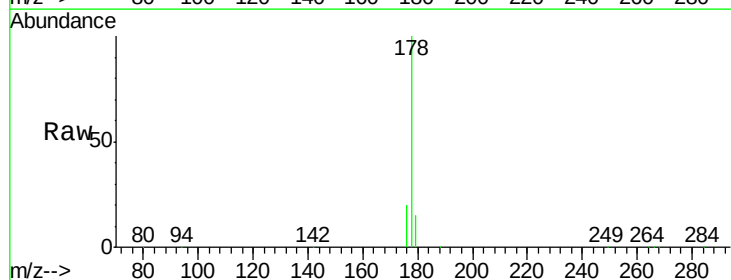
Instrument :
 BNA_E
 ClientSampleId :
 PB82216BSD

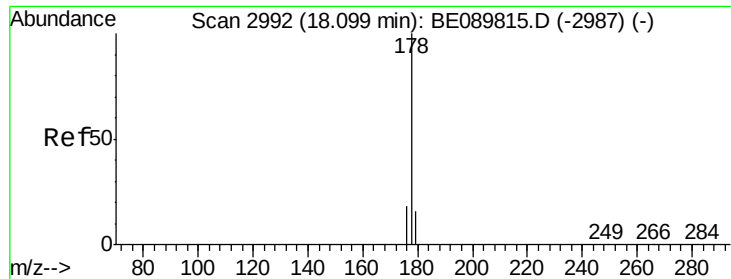
Tgt Ion: 266 Resp: 111648
 Ion Ratio Lower Upper
 266 100
 268 63.9 51.6 77.4
 264 62.4 50.2 75.2



#16
 Phenanthrene
 Concen: 7.82 ng
 RT: 17.97 min Scan# 2979
 Delta R.T. -0.00 min
 Lab File: BE089821.D
 Acq: 24 Mar 2015 19:32

Tgt Ion: 178 Resp: 906212
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.4 23.0
 179 15.6 12.2 18.4





#17

Anthracene

Concen: 8.89 ng

RT: 18.10 min Scan# 2993

Delta R.T. -0.00 min

Lab File: BE089821.D

Acq: 24 Mar 2015 19:32

Instrument :

BNA_E

ClientSampleId :

PB82216BSD

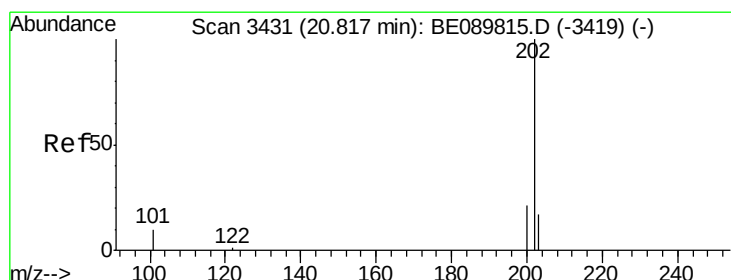
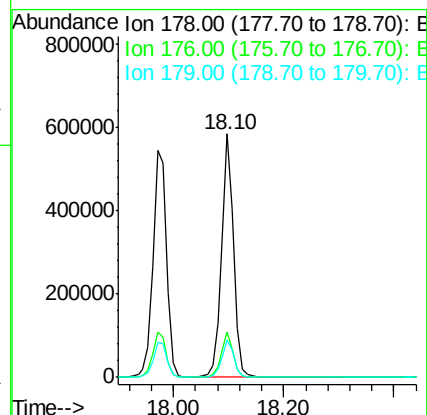
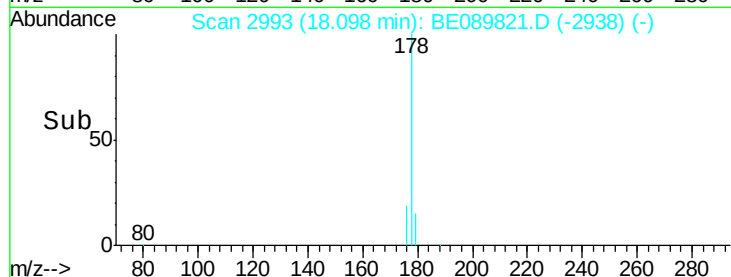
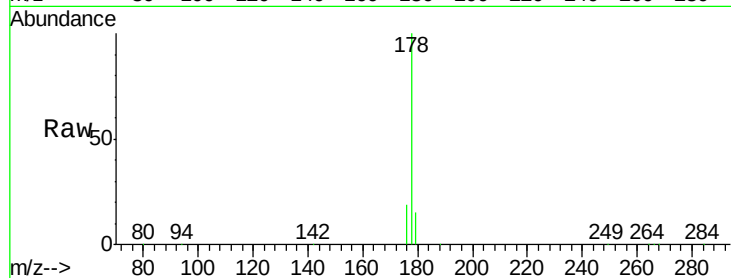
Tgt Ion:178 Resp: 920750

Ion Ratio Lower Upper

178 100

176 18.6 14.6 21.8

179 15.3 12.1 18.1



#18

Fluoranthene

Concen: 8.98 ng

RT: 20.82 min Scan# 3433

Delta R.T. 0.00 min

Lab File: BE089821.D

Acq: 24 Mar 2015 19:32

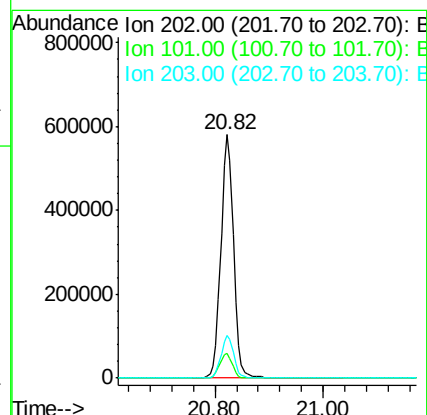
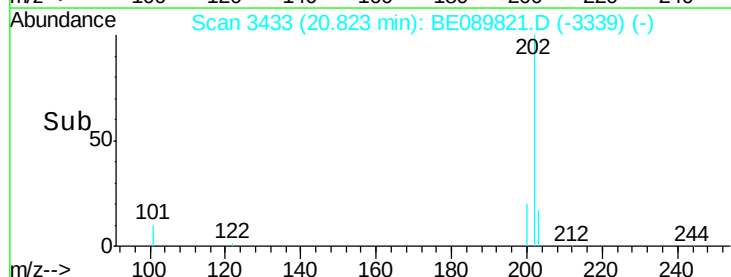
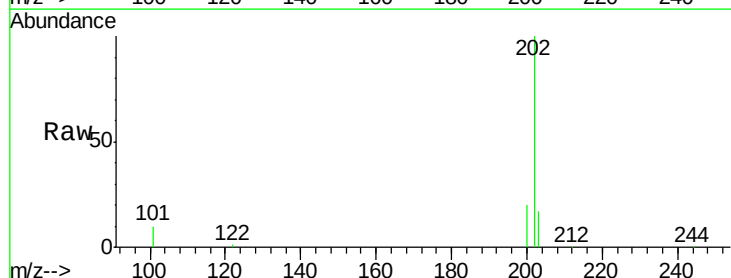
Tgt Ion:202 Resp: 937936

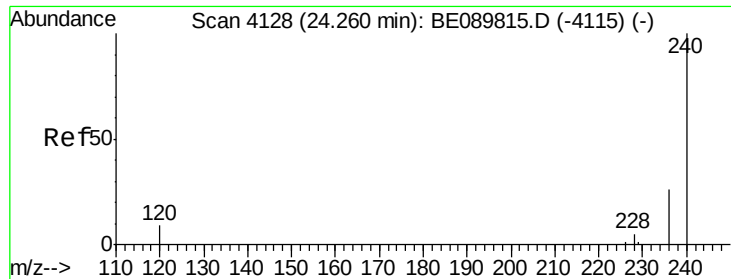
Ion Ratio Lower Upper

202 100

101 10.3 8.2 12.2

203 17.4 14.2 21.4





#19

Chrysene-d12

Concen: 5.00 ng

RT: 24.26 min Scan# 4130

Delta R.T. 0.00 min

Lab File: BE089821.D

Acq: 24 Mar 2015 19:32

Instrument :

BNA_E

ClientSampleId :

PB82216BSD

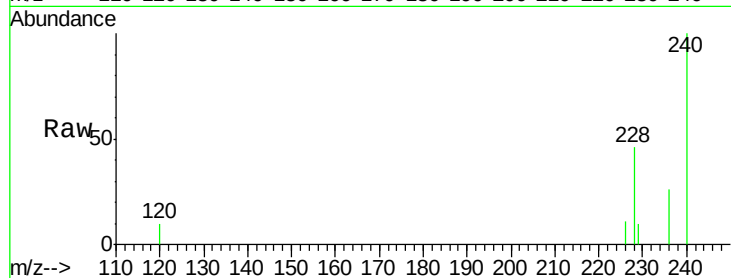
Tgt Ion:240 Resp: 493412

Ion Ratio Lower Upper

240 100

120 10.3 7.5 11.3

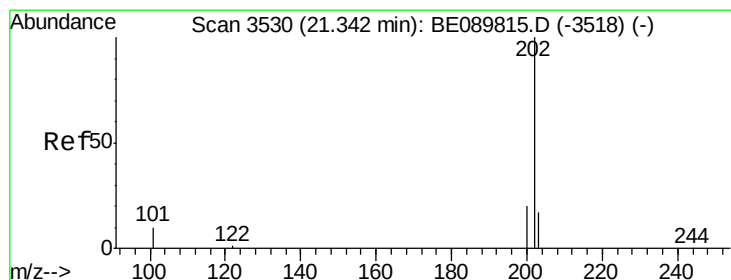
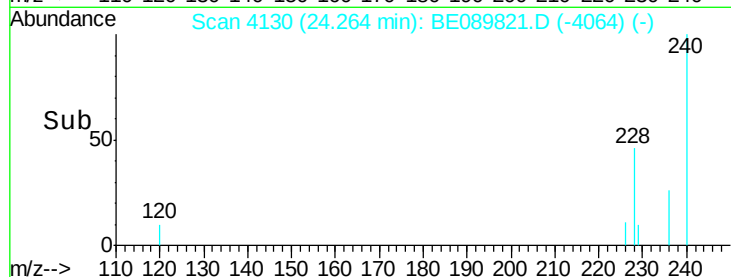
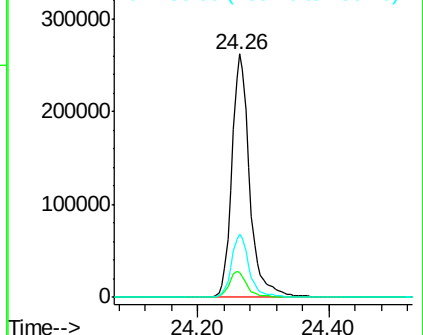
236 26.2 20.5 30.7



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: 7.89 ng

RT: 21.34 min Scan# 3531

Delta R.T. -0.00 min

Lab File: BE089821.D

Acq: 24 Mar 2015 19:32

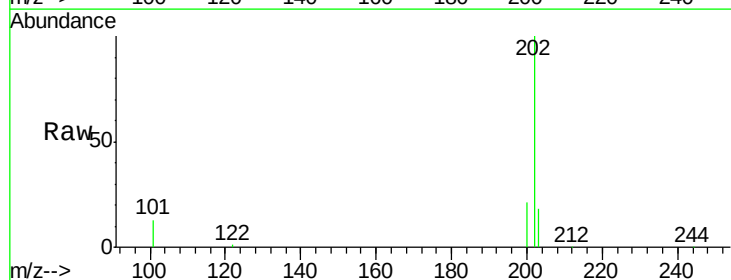
Tgt Ion:202 Resp: 987770

Ion Ratio Lower Upper

202 100

200 21.0 15.9 23.9

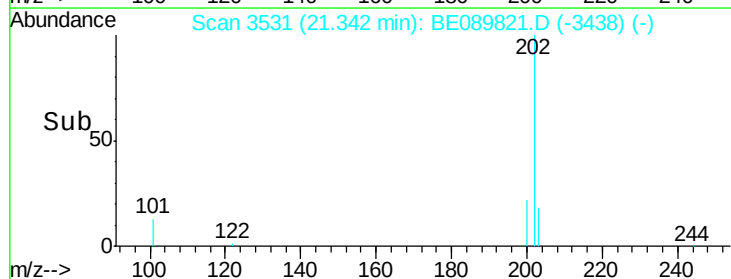
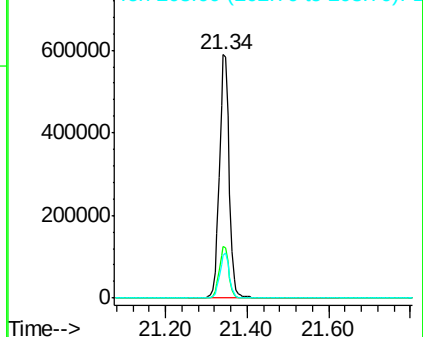
203 18.1 13.6 20.4

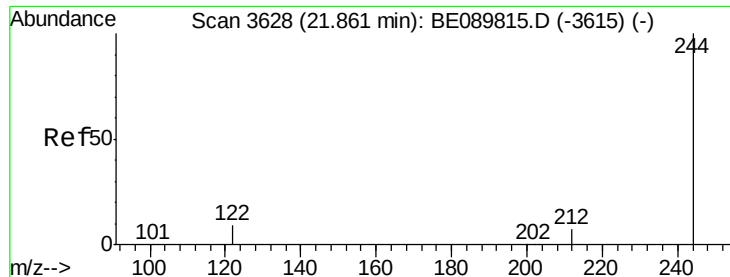


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 9.05 ng

RT: 21.86 min Scan# 3629

Delta R.T. 0.00 min

Lab File: BE089821.D

Acq: 24 Mar 2015 19:32

Instrument :

BNA_E

ClientSampleId :

PB82216BSD

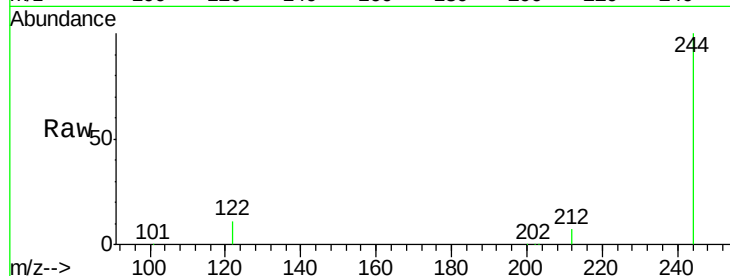
Tgt Ion:244 Resp: 658844

Ion Ratio Lower Upper

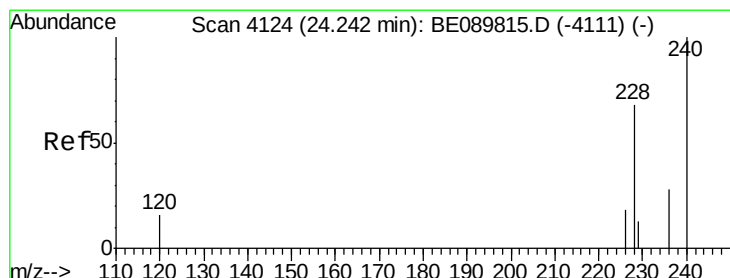
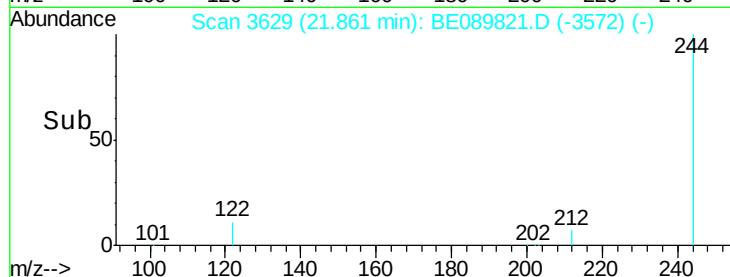
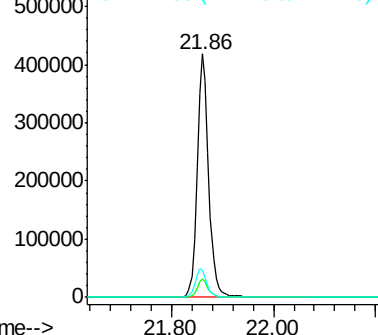
244 100

212 7.4 7.3 10.9

122 11.4 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



#22

Benzo(a)anthracene

Concen: 8.88 ng

RT: 24.25 min Scan# 4126

Delta R.T. -0.00 min

Lab File: BE089821.D

Acq: 24 Mar 2015 19:32

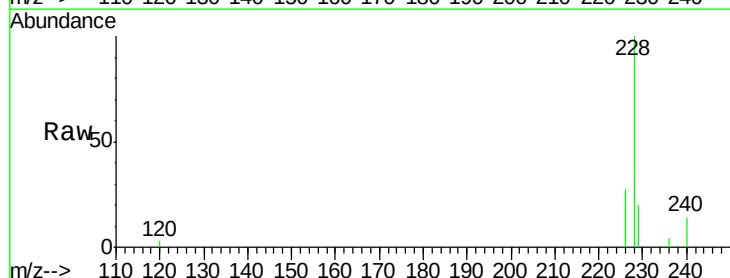
Tgt Ion:228 Resp: 819735

Ion Ratio Lower Upper

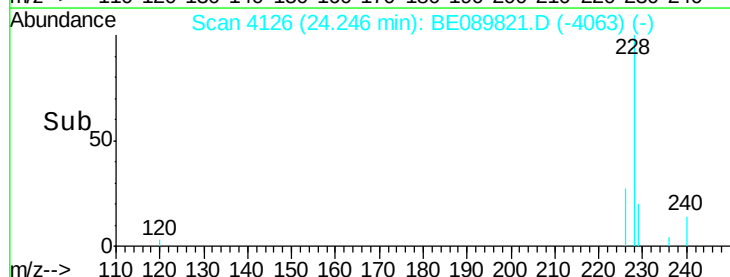
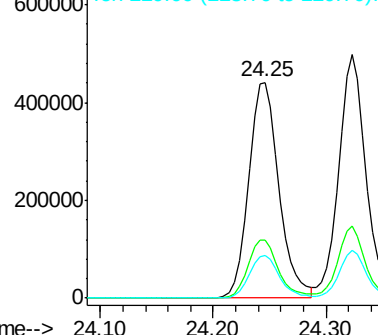
228 100

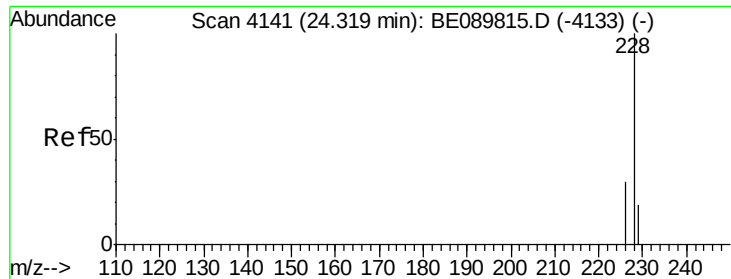
226 26.9 19.8 29.8

229 20.1 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





#23

Chrysene

Concen: 8.64 ng

RT: 24.32 min Scan# 4143

Delta R.T. 0.01 min

Lab File: BE089821.D

Acq: 24 Mar 2015 19:32

Instrument :

BNA_E

ClientSampleId :

PB82216BSD

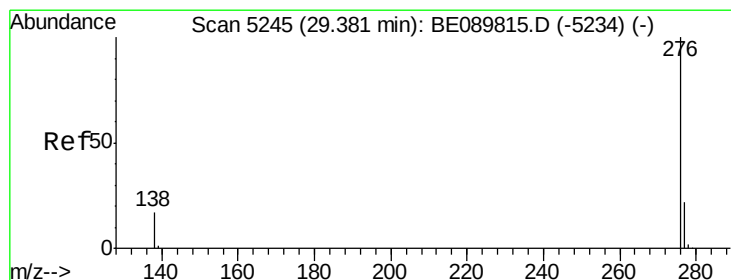
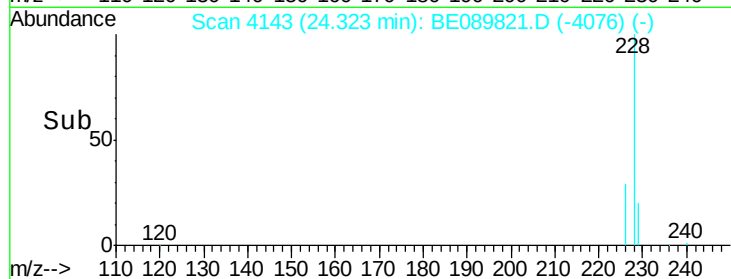
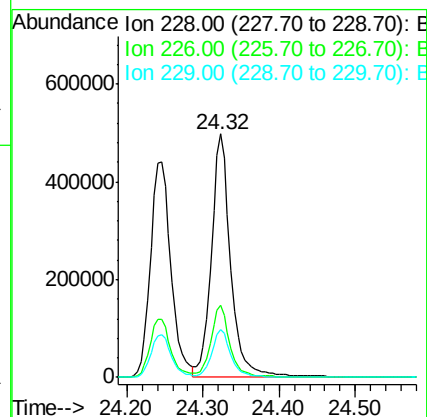
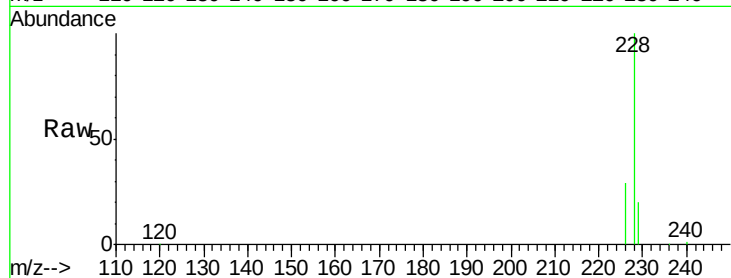
Tgt Ion:228 Resp: 870499

Ion Ratio Lower Upper

228 100

226 29.5 23.0 34.4

229 19.7 15.8 23.6



#24

Indeno(1,2,3-cd)pyrene

Concen: 4.21 ng

RT: 29.39 min Scan# 5248

Delta R.T. 0.01 min

Lab File: BE089821.D

Acq: 24 Mar 2015 19:32

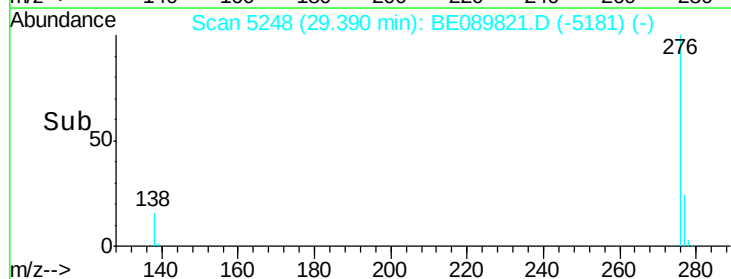
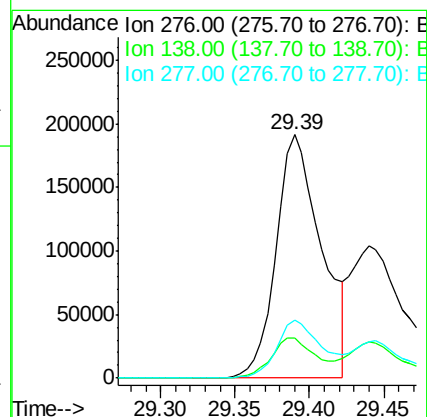
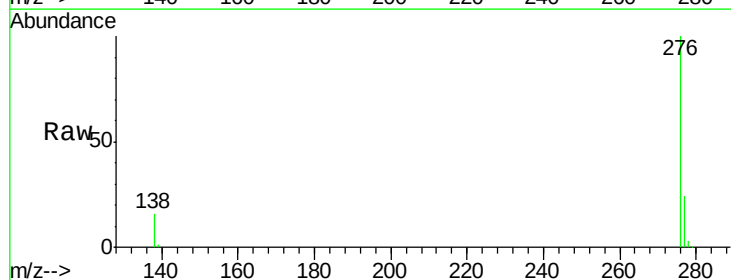
Tgt Ion:276 Resp: 406740

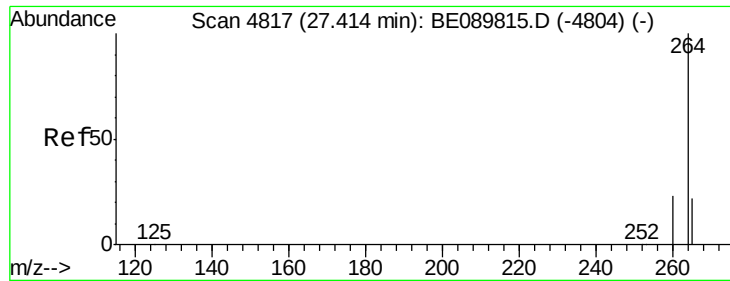
Ion Ratio Lower Upper

276 100

138 15.8 4.3 6.5#

277 23.7 9.0 13.4#

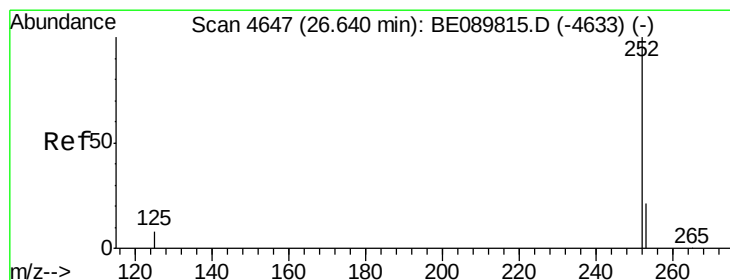
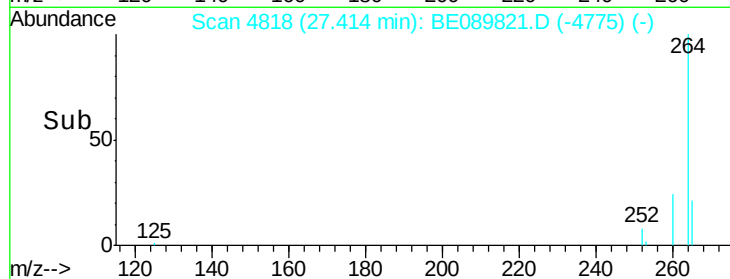
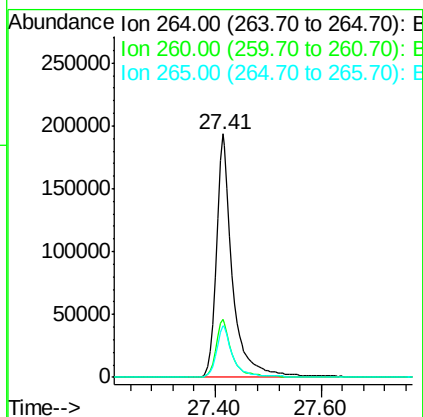
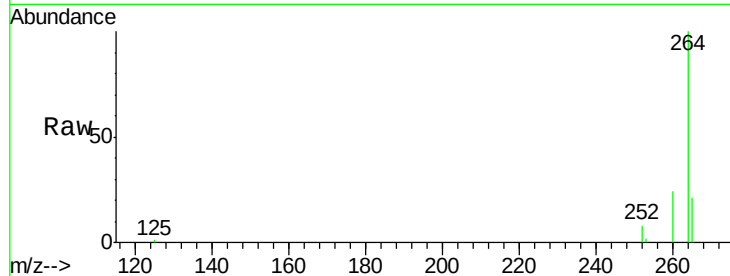




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 27.41 min Scan# 4818
 Delta R.T. -0.00 min
 Lab File: BE089821.D
 Acq: 24 Mar 2015 19:32

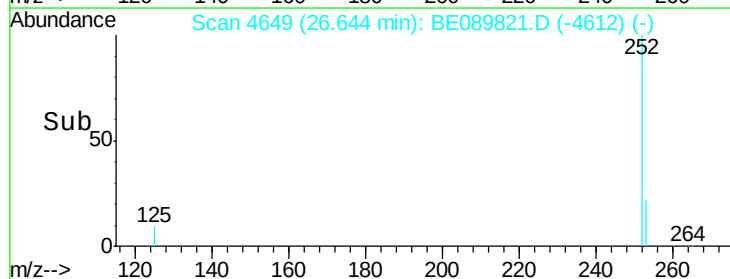
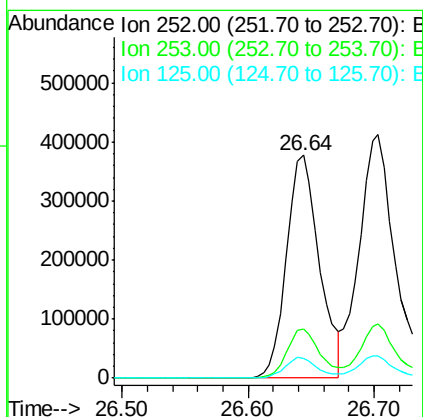
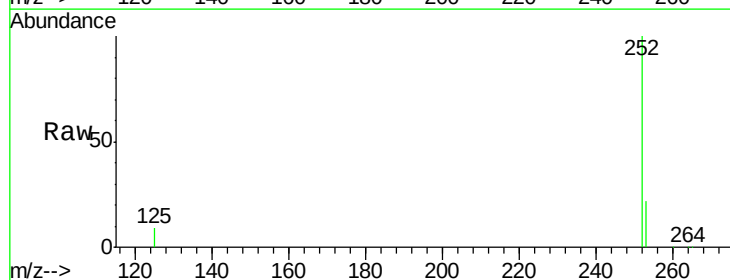
Instrument :
 BNA_E
 ClientSampleId :
 PB82216BSD

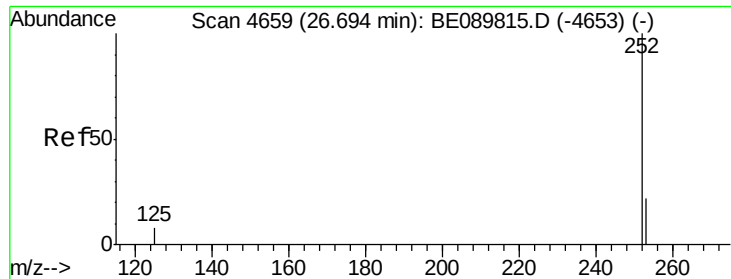
Tgt Ion: 264 Resp: 412392
 Ion Ratio Lower Upper
 264 100
 260 23.9 18.2 27.2
 265 21.3 17.3 25.9



#26
 Benzo(b)fluoranthene
 Concen: 7.69 ng
 RT: 26.64 min Scan# 4649
 Delta R.T. 0.01 min
 Lab File: BE089821.D
 Acq: 24 Mar 2015 19:32

Tgt Ion: 252 Resp: 682785
 Ion Ratio Lower Upper
 252 100
 253 22.3 17.8 26.6
 125 9.1 8.7 13.1





#27

Benzo(k)fluoranthene

Concen: 10.71 ng

RT: 26.70 min Scan# 4662

Delta R.T. 0.00 min

Lab File: BE089821.D

Acq: 24 Mar 2015 19:32

Instrument :

BNA_E

ClientSampleId :

PB82216BSD

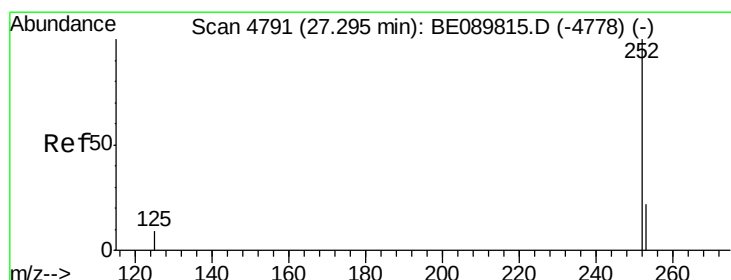
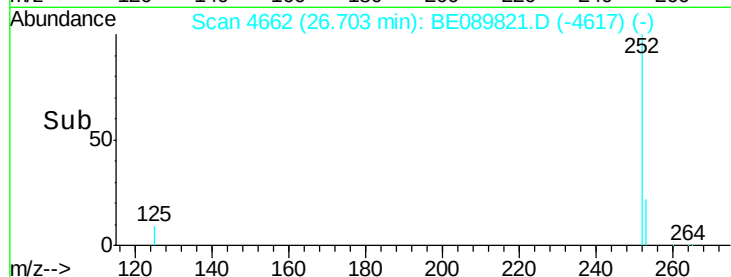
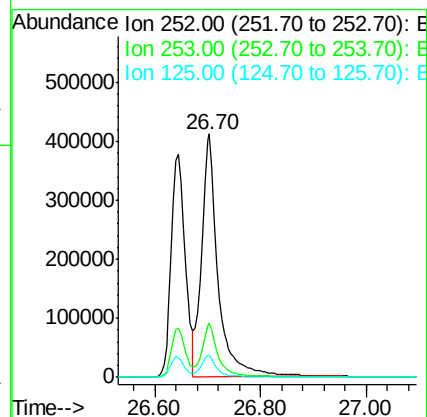
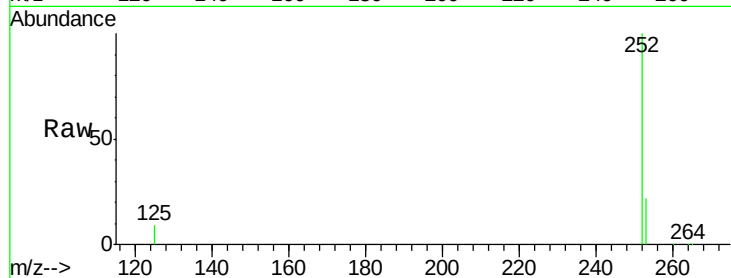
Tgt Ion:252 Resp: 904856

Ion Ratio Lower Upper

252 100

253 22.4 18.6 28.0

125 8.9 10.8 16.2#



#28

Benzo(a)pyrene

Concen: 8.14 ng

RT: 27.30 min Scan# 4793

Delta R.T. -0.00 min

Lab File: BE089821.D

Acq: 24 Mar 2015 19:32

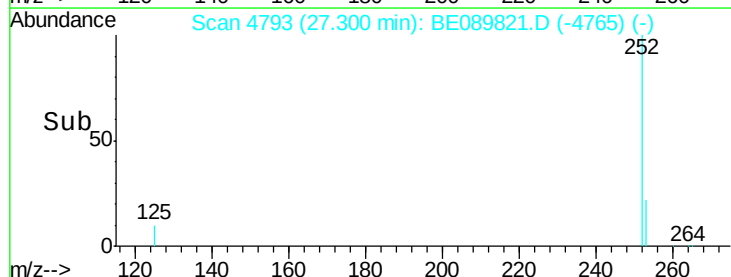
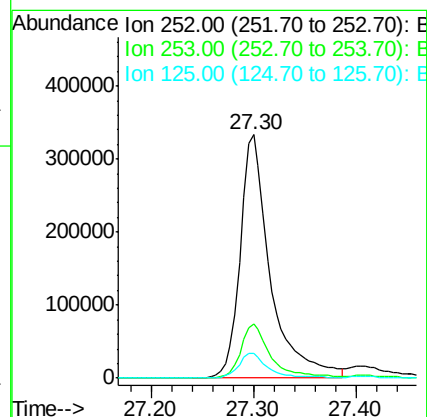
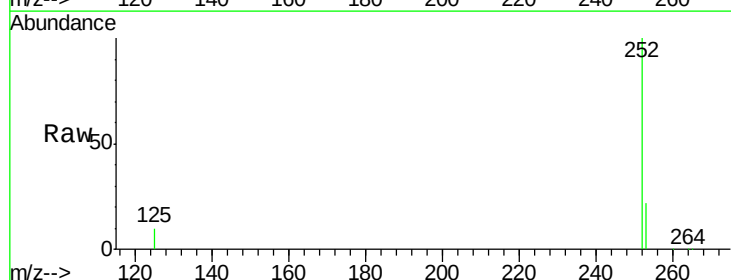
Tgt Ion:252 Resp: 678575

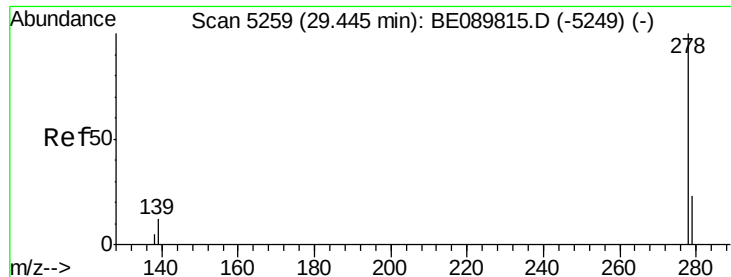
Ion Ratio Lower Upper

252 100

253 22.5 21.0 31.4

125 10.1 13.3 19.9#





#29

Dibenzo(a,h)anthracene

Concen: 7.33 ng

RT: 29.44 min Scan# 5260

Delta R.T. 0.00 min

Lab File: BE089821.D

Acq: 24 Mar 2015 19:32

Instrument :

BNA_E

ClientSampleId :

PB82216BSD

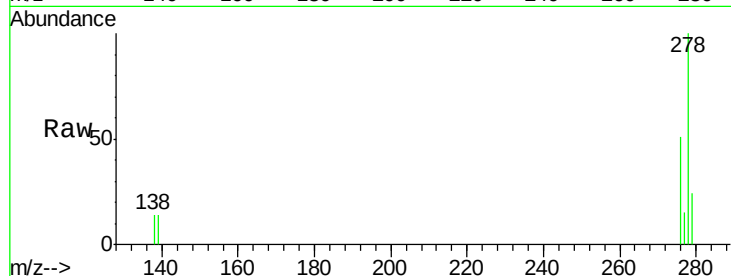
Tgt Ion: 278 Resp: 574908

Ion Ratio Lower Upper

278 100

139 13.7 20.0 30.0#

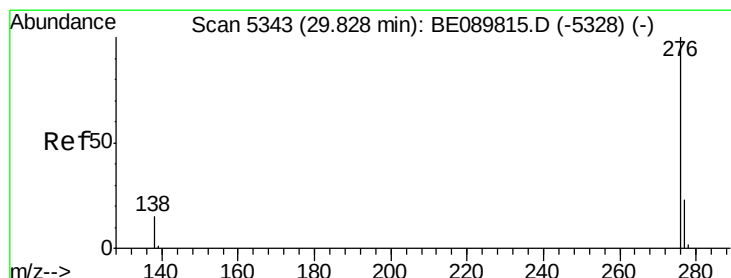
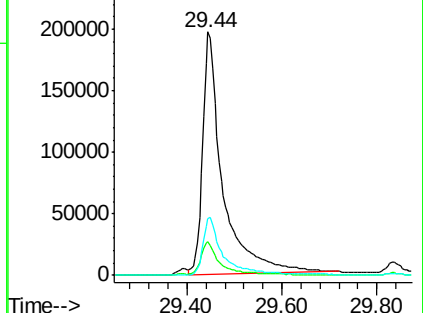
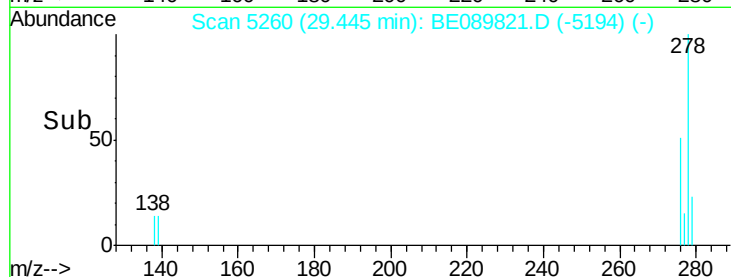
279 23.5 28.9 43.3#



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: 7.98 ng

RT: 29.83 min Scan# 5345

Delta R.T. 0.01 min

Lab File: BE089821.D

Acq: 24 Mar 2015 19:32

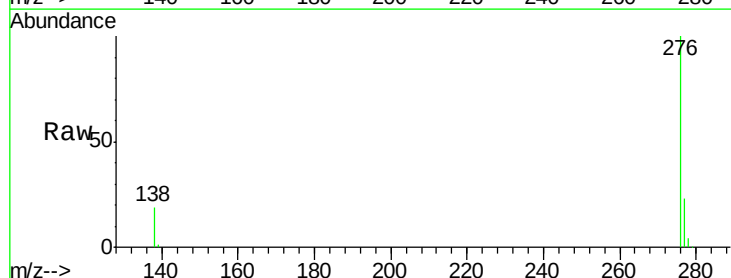
Tgt Ion: 276 Resp: 694434

Ion Ratio Lower Upper

276 100

277 23.5 19.2 28.8

138 18.6 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

