

Data Path : Z:\HPCHEM1\BNA_E\Data\BE022615\
 Data File : BE089693.D
 Acq On : 26 Feb 2015 14:50
 Operator : TP/JJ
 Sample : PB81861BS
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81860BS

Quant Time: Feb 27 15:28:45 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 14:06:35 2015
 Response via : Initial Calibration

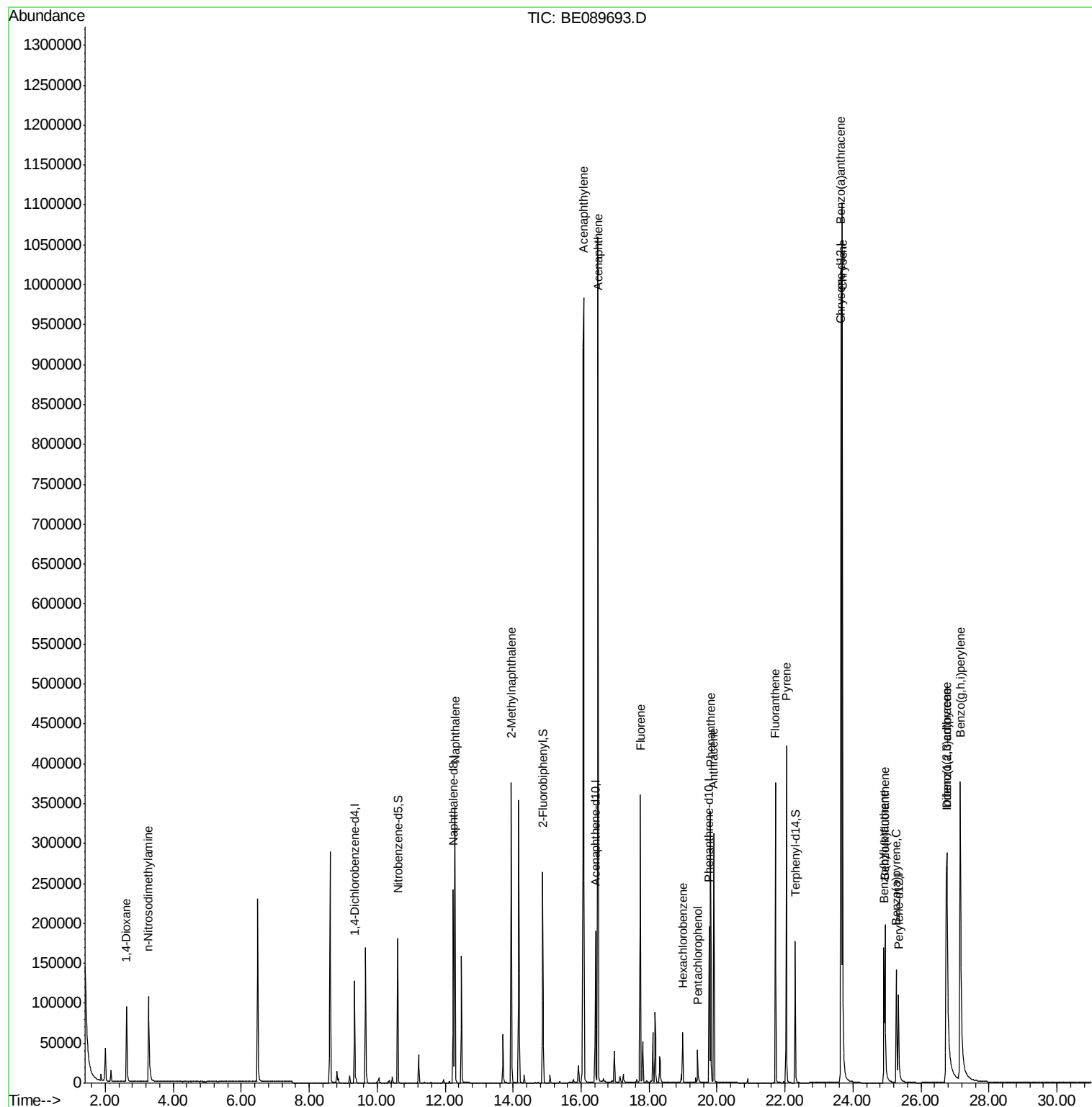
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	53498	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	255229	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	122525	5.00	ng	0.00
13) Phenanthrene-d10	19.76	188	186446	5.00	ng	0.00
19) Chrysene-d12	23.65	240	134543	5.00	ng	0.00
25) Perylene-d12	25.34	264	110004	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.60	82	121643	8.05	ng	0.00
9) 2-Fluorobiphenyl	14.87	172	230393	8.46	ng	0.00
21) Terphenyl-d14	22.29	244	145269	9.20	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.63	88	58426	8.71	ng	98
3) n-Nitrosodimethylamine	3.27	42	75211	8.41	ng	# 86
6) Naphthalene	12.29	128	380411	7.70	ng	100
7) 2-Methylnaphthalene	13.94	142	240772	8.58	ng	97
10) Acenaphthylene	16.07	152	1390966	7.91	ng	100
11) Acenaphthene	16.49	154	205379	7.37	ng	98
12) Fluorene	17.74	166	229944	7.44	ng	100
14) Hexachlorobenzene	18.99	284	39349	8.15	ng	98
15) Pentachlorophenol	19.43	266	27196	12.78	ng	94
16) Phenanthrene	19.81	178	293726	7.38	ng	100
17) Anthracene	19.90	178	293148	8.66	ng	100
18) Fluoranthene	21.72	202	251736	7.58	ng	100
20) Pyrene	22.04	202	274449	8.44	ng	99
22) Benzo(a)anthracene	23.64	228	794748	8.98	ng	96
23) Chrysene	23.68	228	903985	7.41	ng	99
24) Indeno(1,2,3-cd)pyrene	26.74	276	689132	7.53	ng	# 46
26) Benzo(b)fluoranthene	24.91	252	131008	7.21	ng	96
27) Benzo(k)fluoranthene	24.94	252	236986	8.58	ng	98
28) Benzo(a)pyrene	25.27	252	150544	7.00	ng	95
29) Dibenzo(a,h)anthracene	26.77	278	139680	7.23	ng	# 87
30) Benzo(g,h,i)perylene	27.15	276	639076	12.14	ng	95

(#) = 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: BE089693.D

Acq: 26 Feb 2015 14:50

Instrument :

BNA_E

ClientSampleId :

PB81860BS

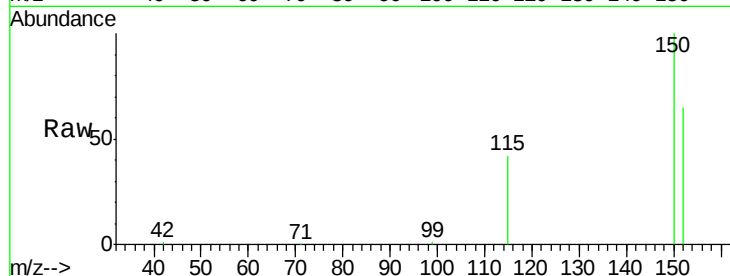
Tgt Ion:152 Resp: 53498

Ion Ratio Lower Upper

152 100

150 152.7 123.4 185.0

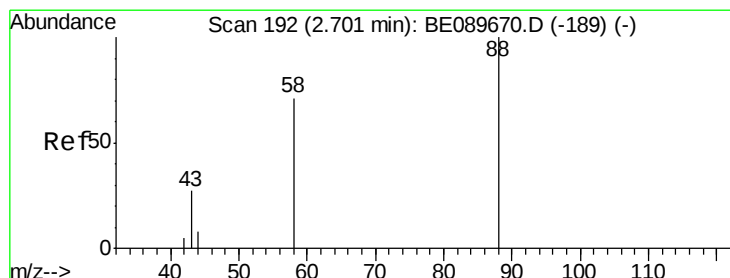
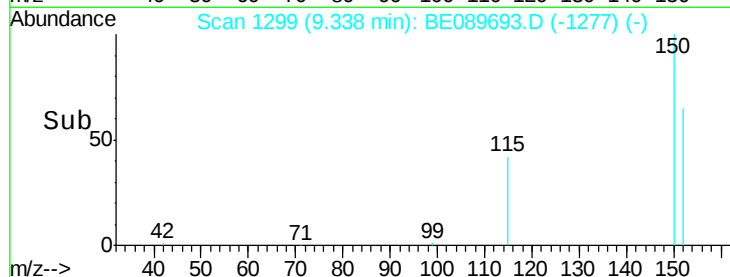
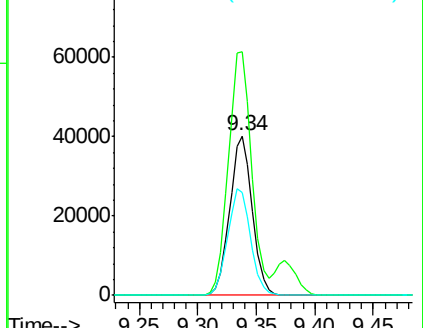
115 64.2 50.8 76.2



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: 8.71 ng

RT: 2.63 min Scan# 181

Delta R.T. -0.07 min

Lab File: BE089693.D

Acq: 26 Feb 2015 14:50

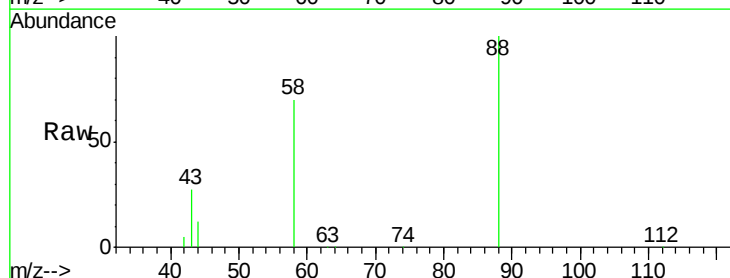
Tgt Ion: 88 Resp: 58426

Ion Ratio Lower Upper

88 100

58 80.1 62.4 93.6

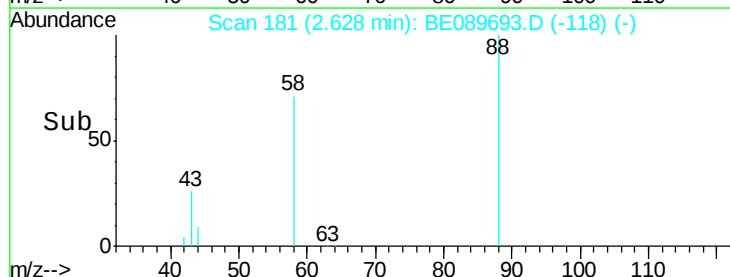
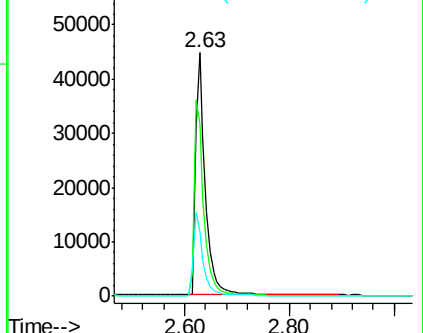
43 32.9 26.6 40.0

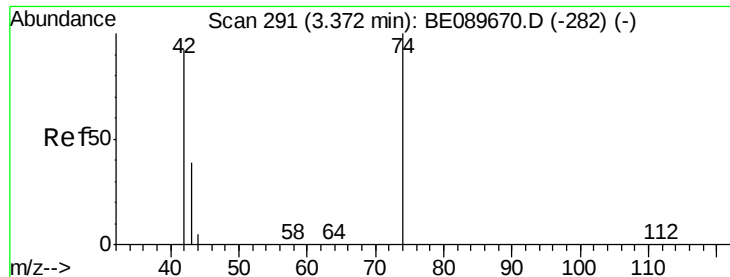


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



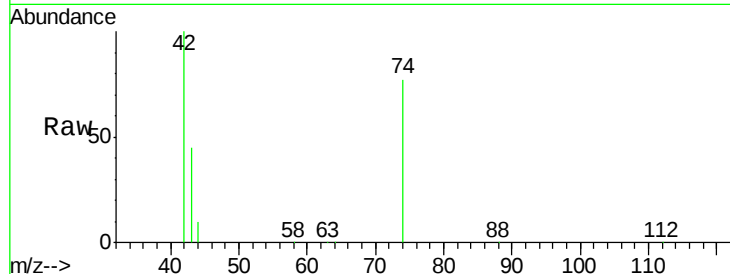


#3

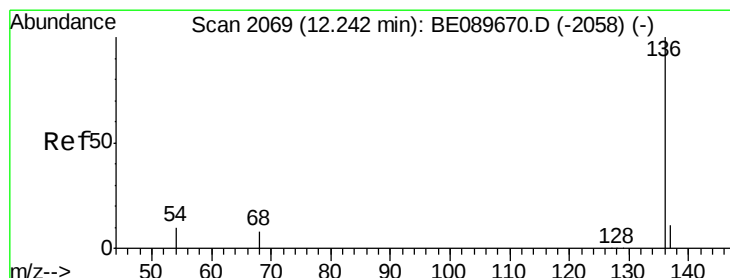
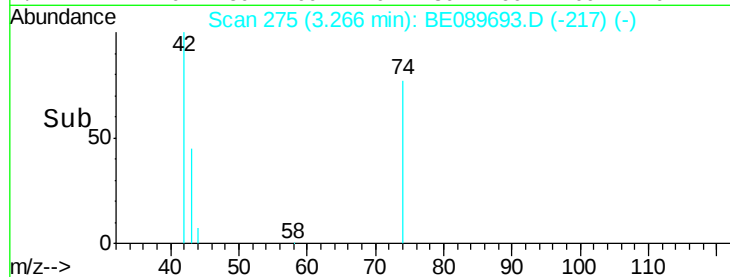
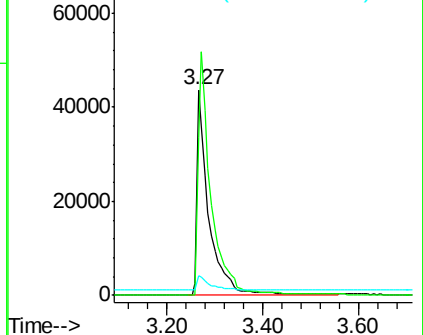
n-Nitrosodimethylamine
 Concen: 8.41 ng
 RT: 3.27 min Scan# 275
 Delta R.T. -0.11 min
 Lab File: BE089693.D
 Acq: 26 Feb 2015 14:50

Instrument :
 BNA_E
 ClientSampleId :
 PB81860BS

Tgt Ion: 42 Resp: 75211
 Ion Ratio Lower Upper
 42 100
 74 129.7 91.1 136.7
 44 7.3 4.7 7.1#



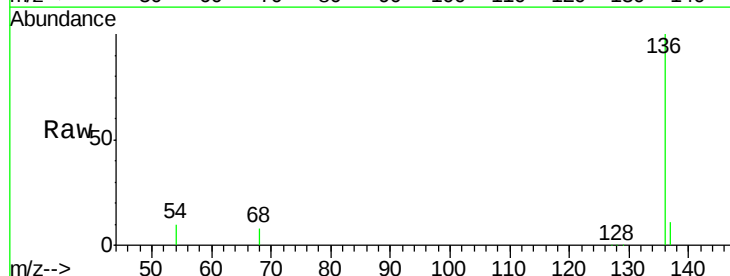
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



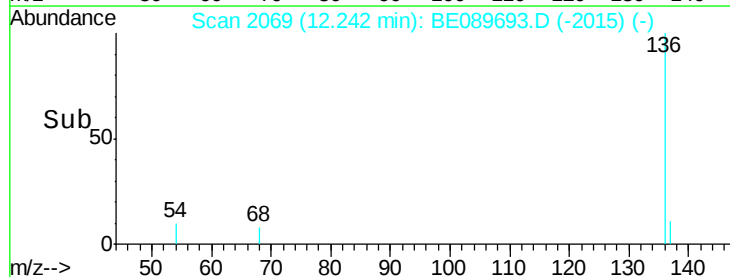
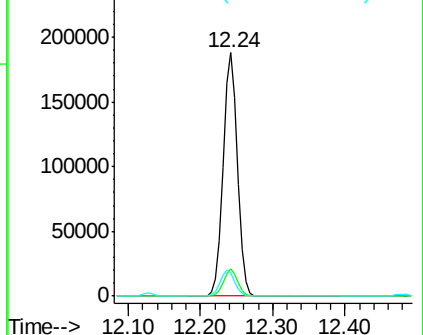
#4

Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.24 min Scan# 2069
 Delta R.T. -0.00 min
 Lab File: BE089693.D
 Acq: 26 Feb 2015 14:50

Tgt Ion: 136 Resp: 255229
 Ion Ratio Lower Upper
 136 100
 137 11.0 8.7 13.1
 54 9.8 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: 8.05 ng

RT: 10.60 min Scan# 1667

Delta R.T. 0.00 min

Lab File: BE089693.D

Acq: 26 Feb 2015 14:50

Instrument :

BNA_E

ClientSampleId :

PB81860BS

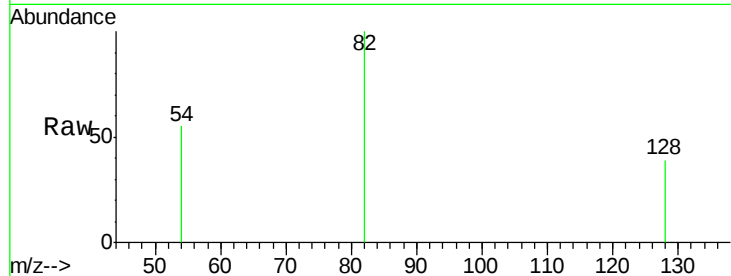
Tgt Ion: 82 Resp: 121643

Ion Ratio Lower Upper

82 100

128 38.8 30.6 46.0

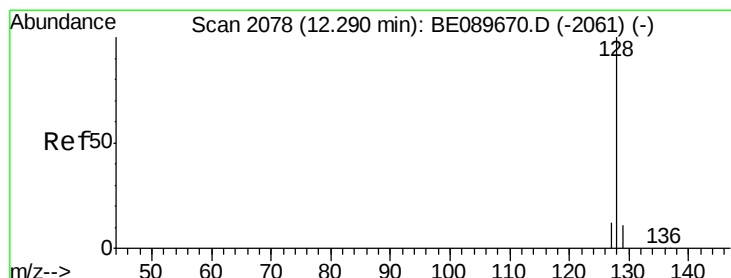
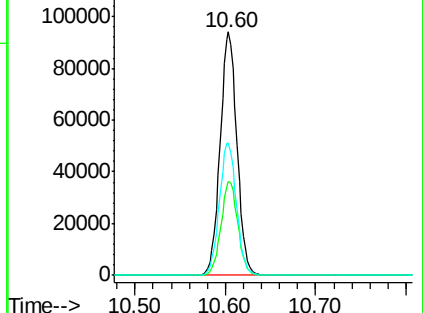
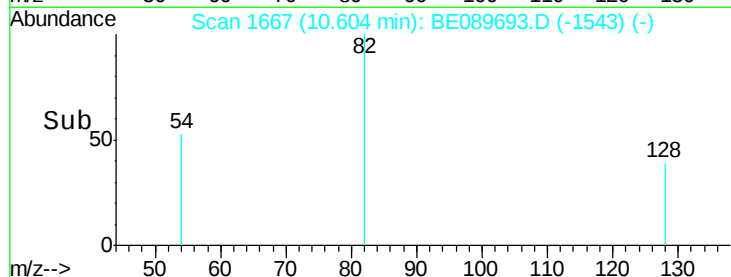
54 54.5 43.6 65.4



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: 7.70 ng

RT: 12.29 min Scan# 2078

Delta R.T. -0.00 min

Lab File: BE089693.D

Acq: 26 Feb 2015 14:50

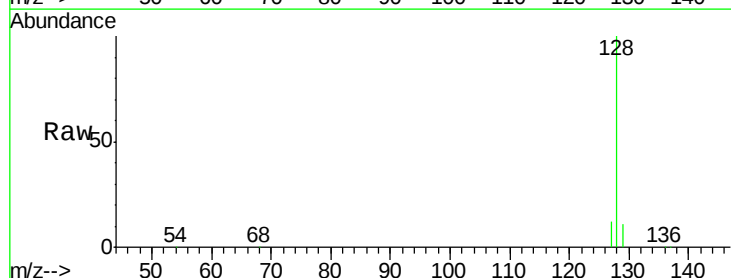
Tgt Ion: 128 Resp: 380411

Ion Ratio Lower Upper

128 100

129 11.1 8.9 13.3

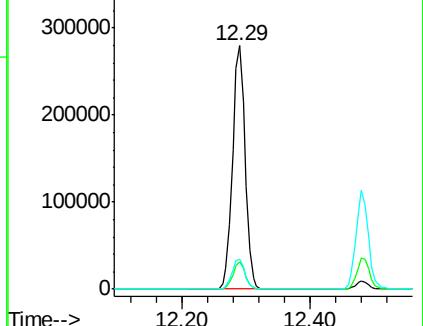
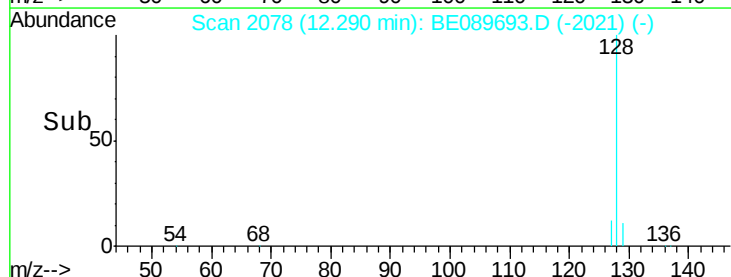
127 12.2 9.7 14.5



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: 8.58 ng

RT: 13.94 min Scan# 2416

Delta R.T. -0.00 min

Lab File: BE089693.D

Acq: 26 Feb 2015 14:50

Instrument :

BNA_E

ClientSampleId :

PB81860BS

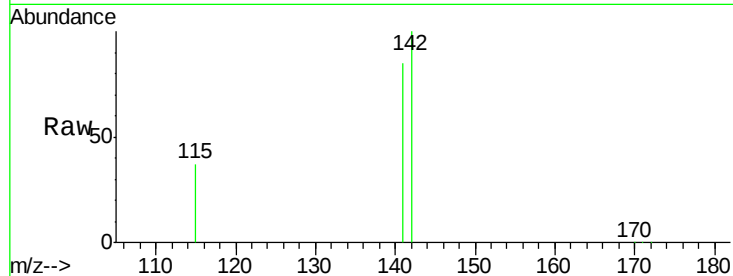
Tgt Ion:142 Resp: 240772

Ion Ratio Lower Upper

142 100

141 84.6 66.0 99.0

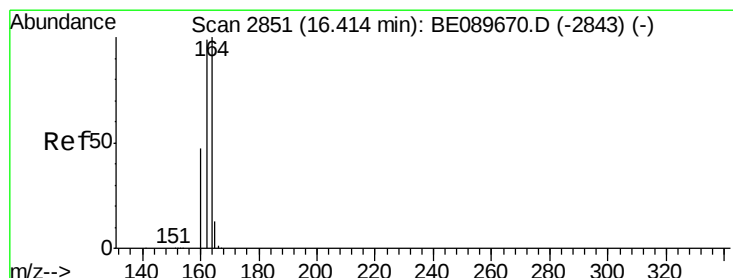
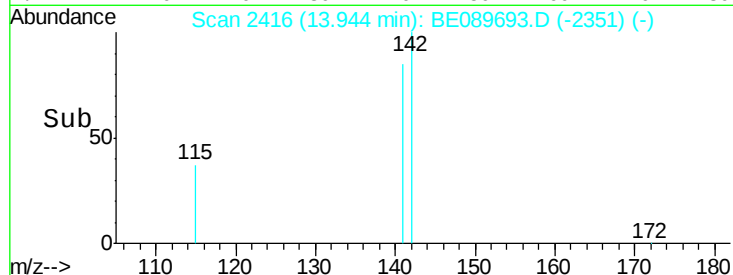
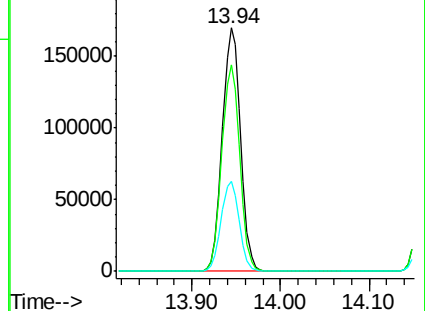
115 37.0 27.4 41.0



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: 16.42 min Scan# 2851

Delta R.T. 0.01 min

Lab File: BE089693.D

Acq: 26 Feb 2015 14:50

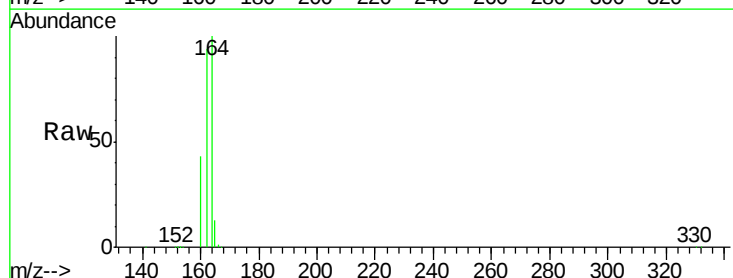
Tgt Ion:164 Resp: 122525

Ion Ratio Lower Upper

164 100

162 94.3 79.4 119.2

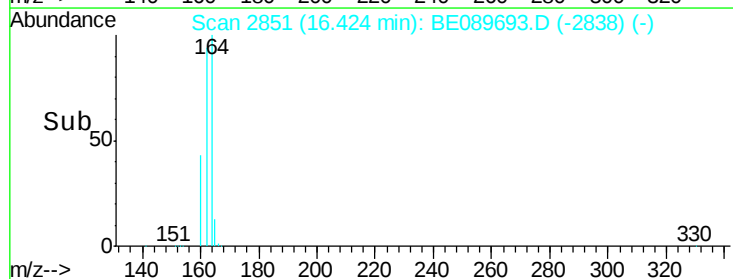
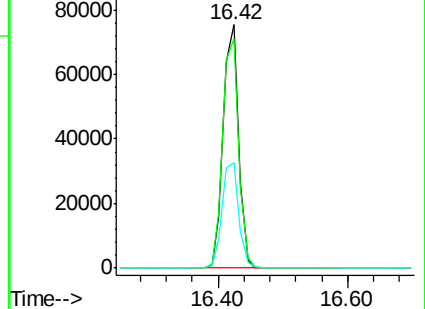
160 43.1 37.6 56.4



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

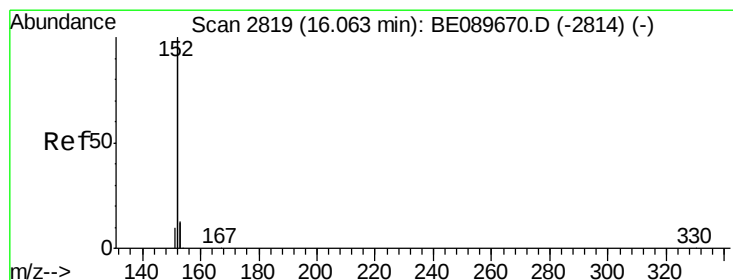
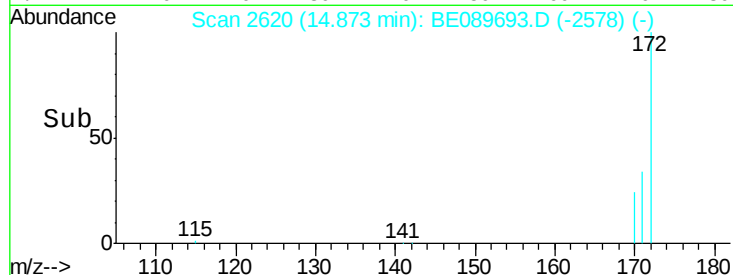
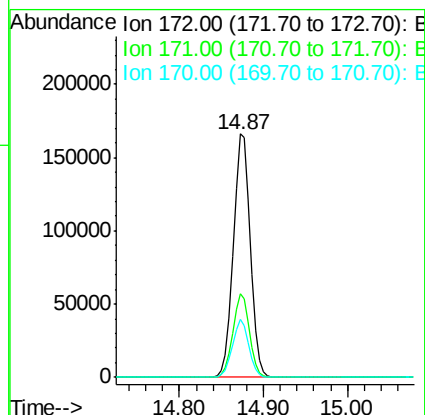
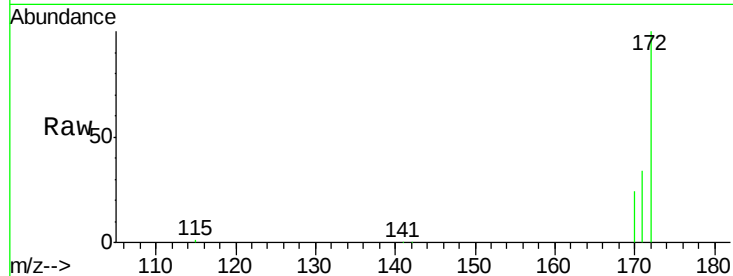




#9
 2-Fluorobiphenyl
 Concen: 8.46 ng
 RT: 14.87 min Scan# 2620
 Delta R.T. -0.00 min
 Lab File: BE089693.D
 Acq: 26 Feb 2015 14:50

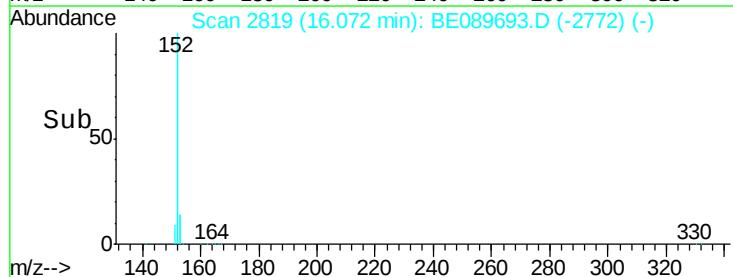
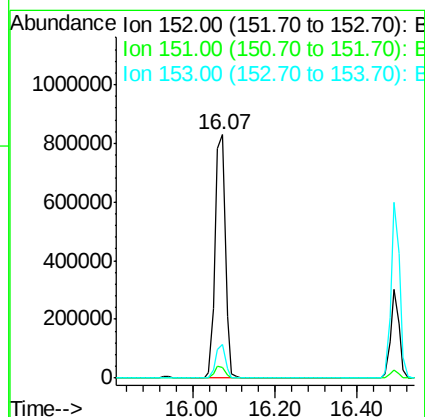
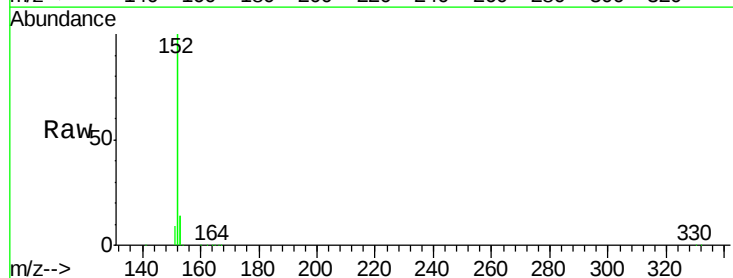
Instrument :
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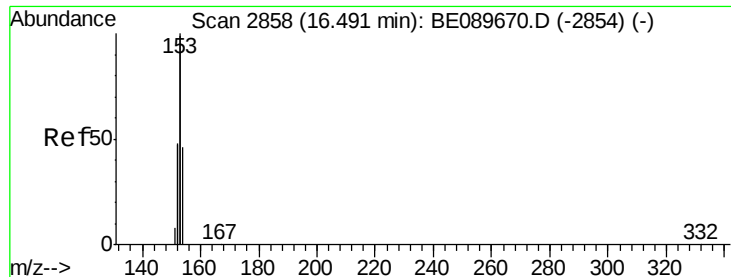
Tgt Ion:172 Resp: 230393
 Ion Ratio Lower Upper
 172 100
 171 34.4 27.3 40.9
 170 23.7 18.5 27.7



#10
 Acenaphthylene
 Concen: 7.91 ng
 RT: 16.07 min Scan# 2819
 Delta R.T. 0.01 min
 Lab File: BE089693.D
 Acq: 26 Feb 2015 14:50

Tgt Ion:152 Resp: 1390966
 Ion Ratio Lower Upper
 152 100
 151 4.8 3.8 5.6
 153 13.2 10.4 15.6





#11

Acenaphthene

Concen: 7.37 ng

RT: 16.49 min Scan# 2857

Delta R.T. -0.00 min

Lab File: BE089693.D

Acq: 26 Feb 2015 14:50

Instrument :

BNA_E

ClientSampleId :

PB81860BS

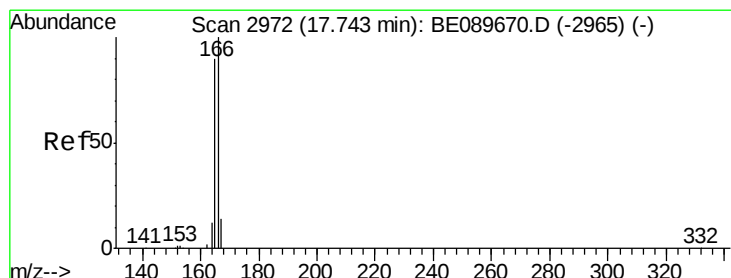
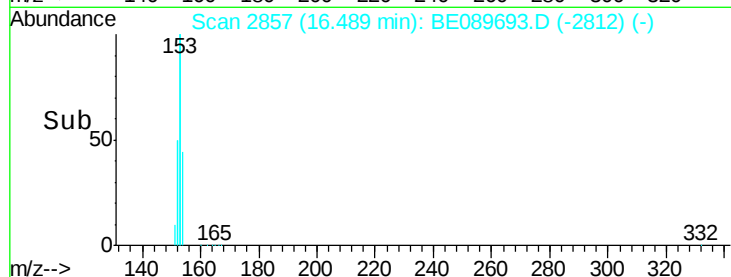
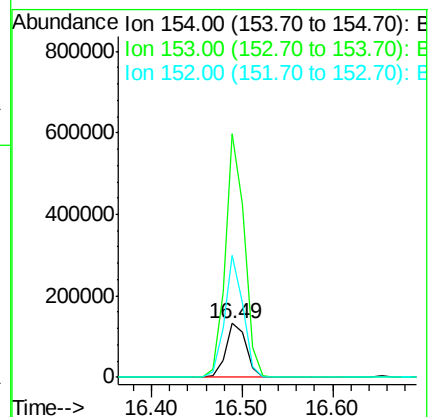
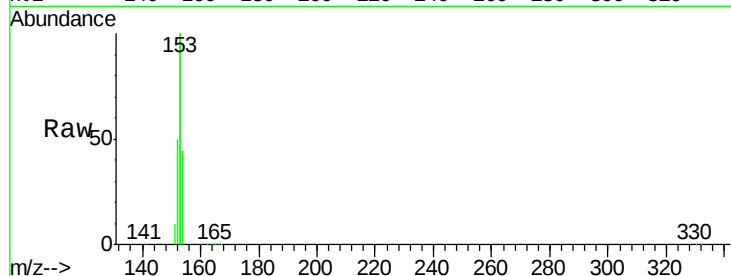
Tgt Ion:154 Resp: 205379

Ion Ratio Lower Upper

154 100

153 427.1 345.8 518.8

152 207.8 168.6 252.8



#12

Fluorene

Concen: 7.44 ng

RT: 17.74 min Scan# 2971

Delta R.T. -0.00 min

Lab File: BE089693.D

Acq: 26 Feb 2015 14:50

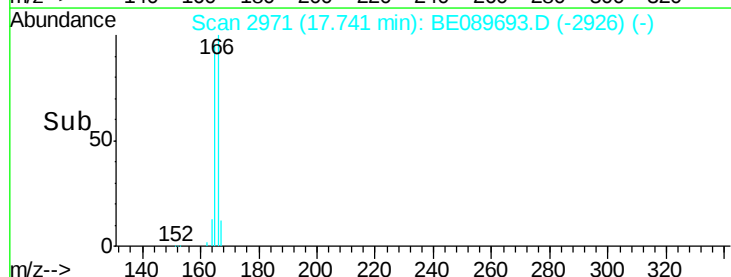
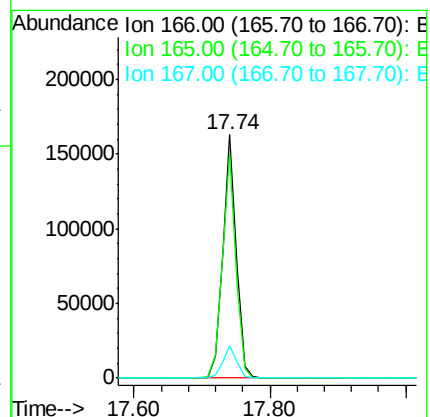
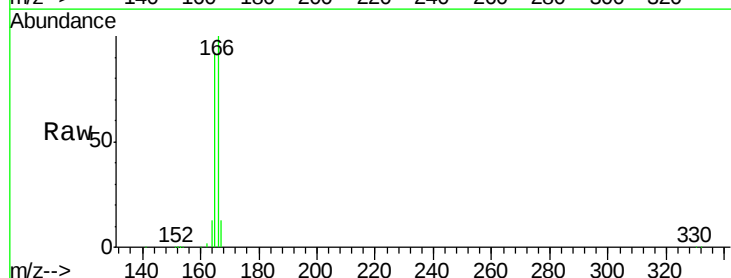
Tgt Ion:166 Resp: 229944

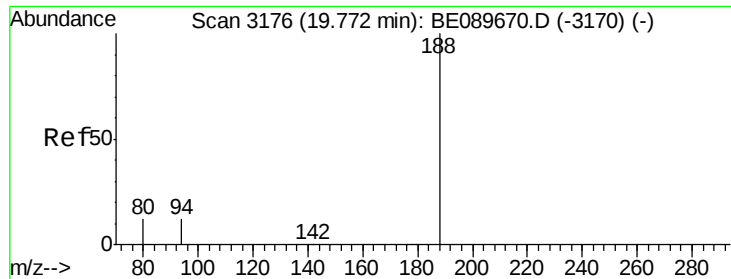
Ion Ratio Lower Upper

166 100

165 92.0 73.6 110.4

167 13.3 10.6 16.0

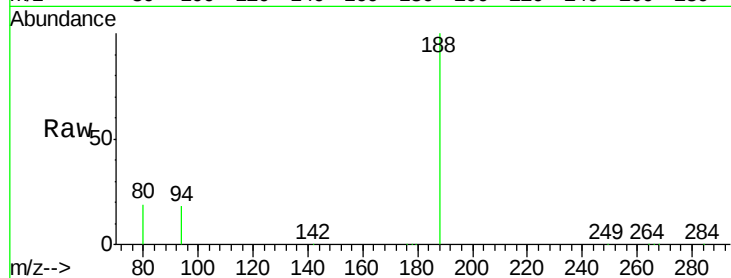




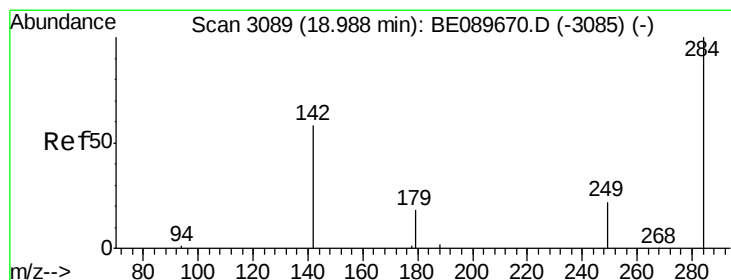
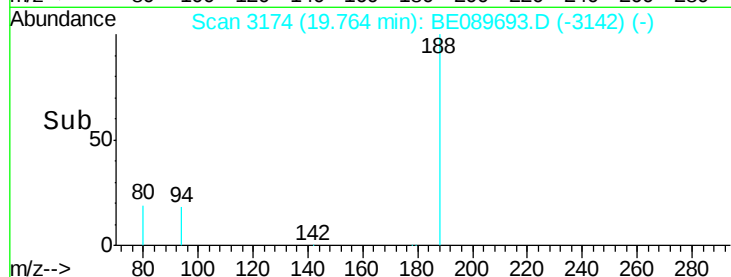
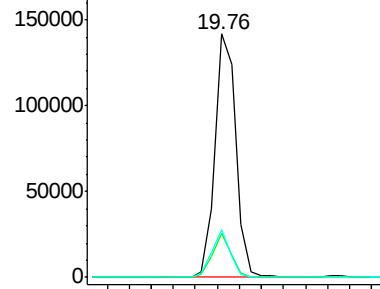
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.76 min Scan# 3174
Delta R.T. -0.01 min
Lab File: BE089693.D
Acq: 26 Feb 2015 14:50

Instrument :
BNA_E
ClientSampleId :
PB81860BS

Tgt Ion:188 Resp: 186446
Ion Ratio Lower Upper
188 100
94 18.2 9.4 14.2#
80 19.4 9.5 14.3#

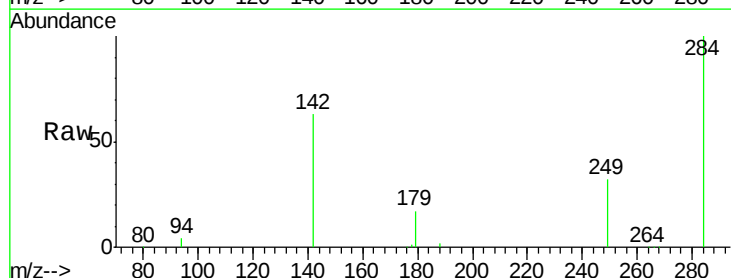


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

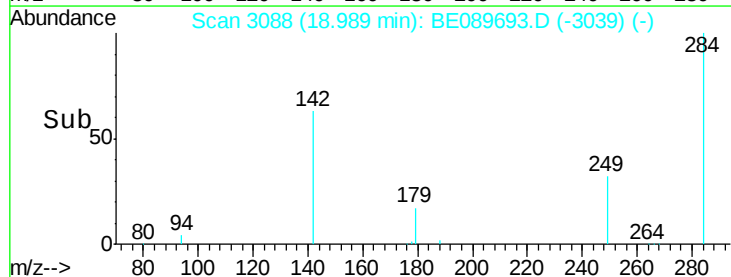
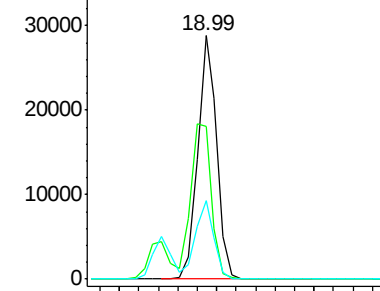


#14
Hexachlorobenzene
Concen: 8.15 ng
RT: 18.99 min Scan# 3088
Delta R.T. 0.00 min
Lab File: BE089693.D
Acq: 26 Feb 2015 14:50

Tgt Ion:284 Resp: 39349
Ion Ratio Lower Upper
284 100
142 69.1 55.4 83.2
249 31.5 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

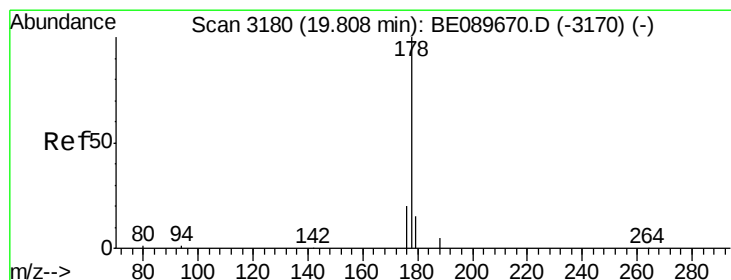
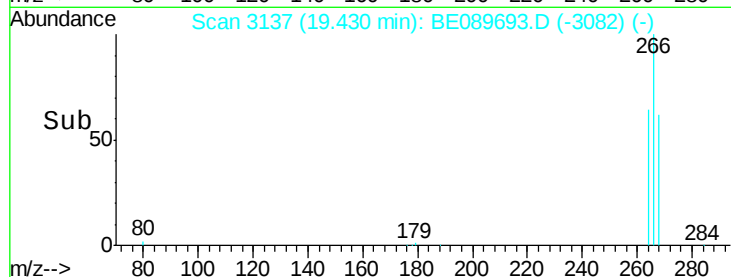
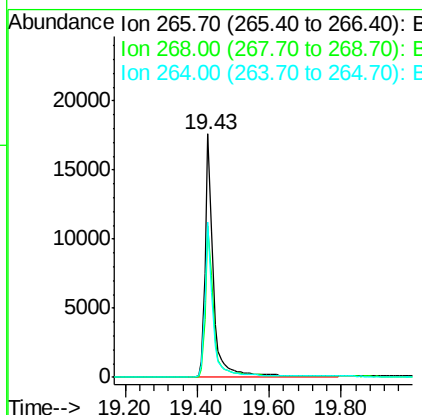
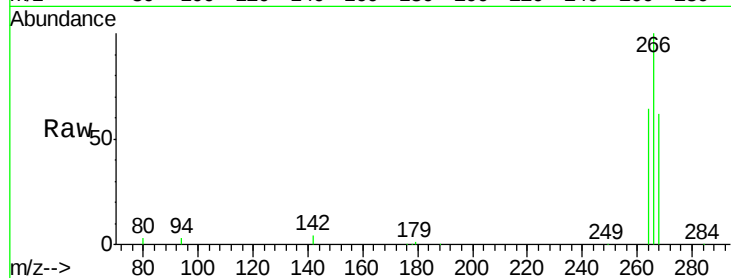




#15
 Pentachlorophenol
 Concen: 12.78 ng
 RT: 19.43 min Scan# 3137
 Delta R.T. -0.01 min
 Lab File: BE089693.D
 Acq: 26 Feb 2015 14:50

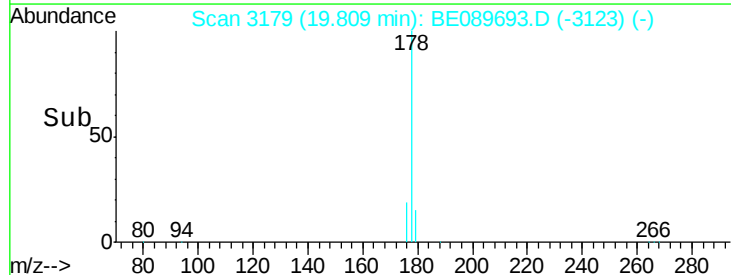
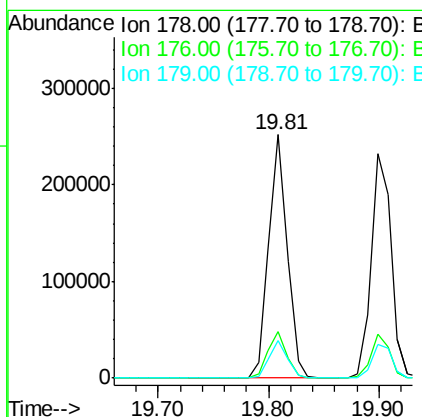
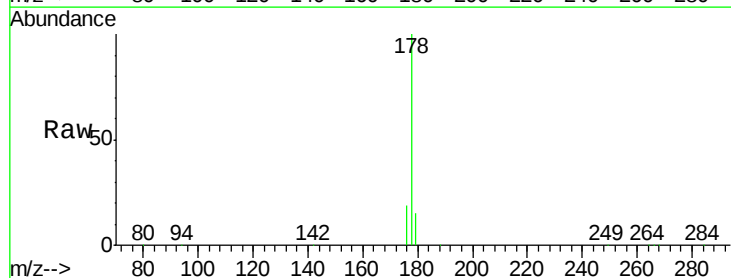
Instrument :
 BNA_E
 ClientSampleId :
 PB81860BS

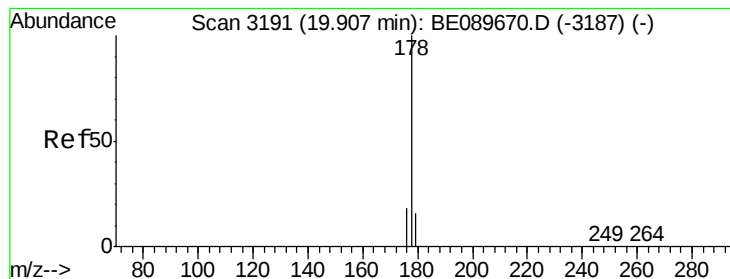
Tgt Ion: 266 Resp: 27196
 Ion Ratio Lower Upper
 266 100
 268 62.2 56.3 84.5
 264 64.0 51.8 77.8



#16
 Phenanthrene
 Concen: 7.38 ng
 RT: 19.81 min Scan# 3179
 Delta R.T. 0.00 min
 Lab File: BE089693.D
 Acq: 26 Feb 2015 14:50

Tgt Ion: 178 Resp: 293726
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.3 22.9
 179 15.3 12.5 18.7





#17

Anthracene

Concen: 8.66 ng

RT: 19.90 min Scan# 3189

Delta R.T. -0.01 min

Lab File: BE089693.D

Acq: 26 Feb 2015 14:50

Instrument :

BNA_E

ClientSampleId :

PB81860BS

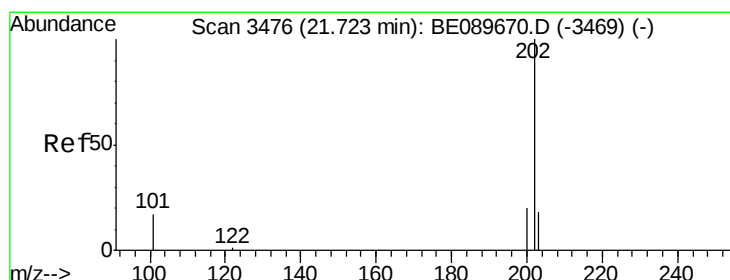
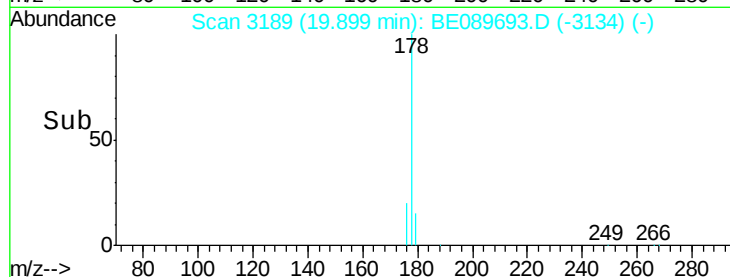
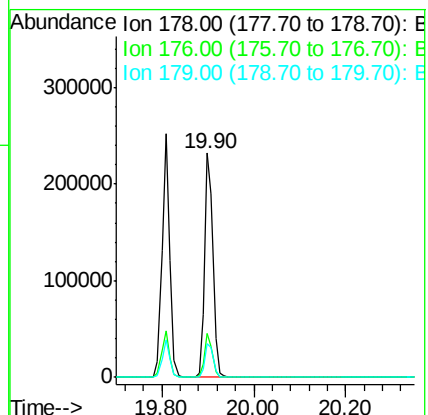
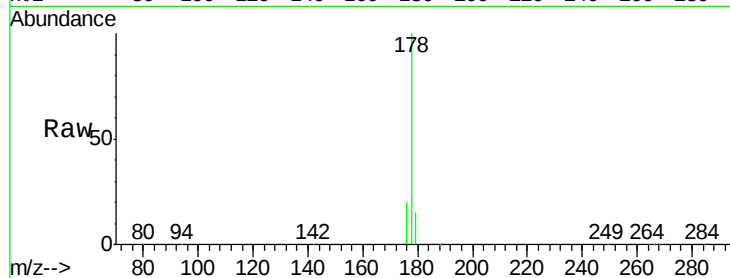
Tgt Ion:178 Resp: 293148

Ion Ratio Lower Upper

178 100

176 18.7 14.8 22.2

179 15.3 12.2 18.2



#18

Fluoranthene

Concen: 7.58 ng

RT: 21.72 min Scan# 3473

Delta R.T. -0.01 min

Lab File: BE089693.D

Acq: 26 Feb 2015 14:50

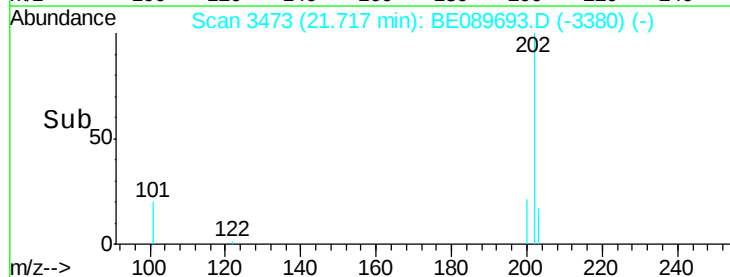
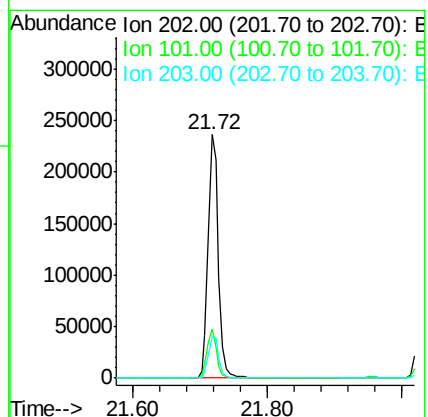
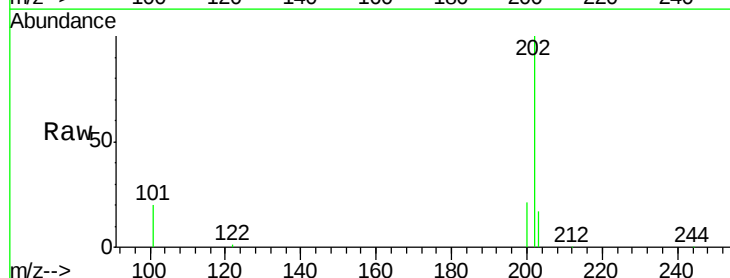
Tgt Ion:202 Resp: 251736

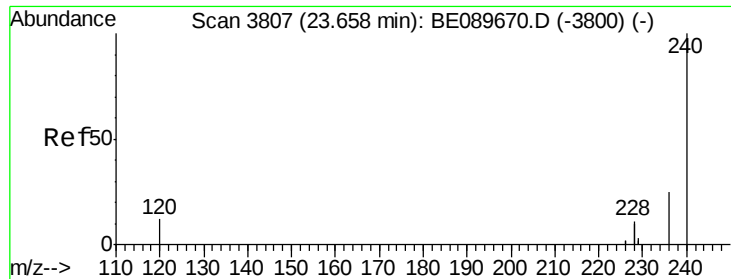
Ion Ratio Lower Upper

202 100

101 18.8 14.9 22.3

203 17.4 13.8 20.6





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.65 min Scan# 3804

Delta R.T. -0.01 min

Lab File: BE089693.D

Acq: 26 Feb 2015 14:50

Instrument :

BNA_E

ClientSampleId :

PB81860BS

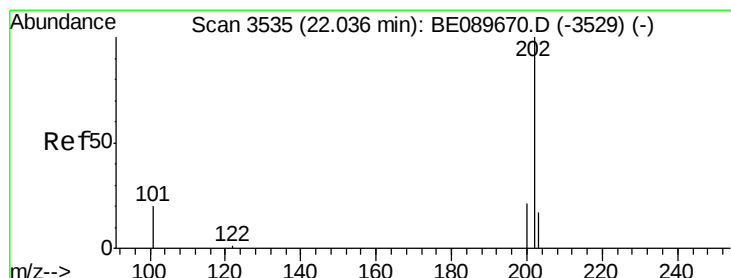
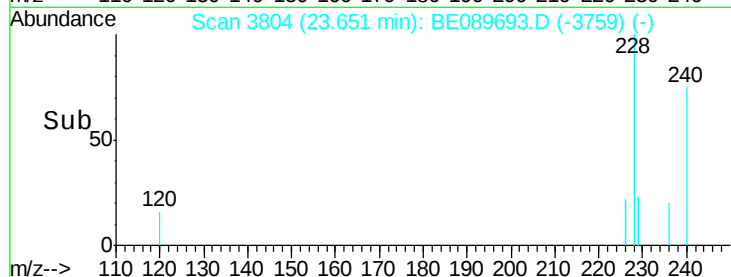
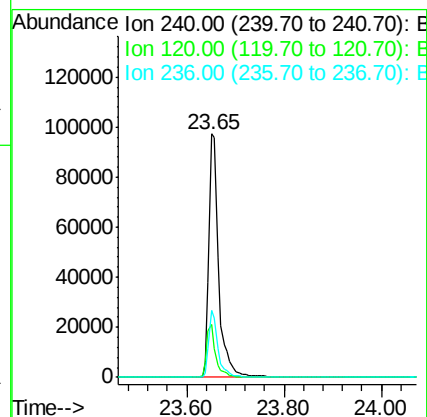
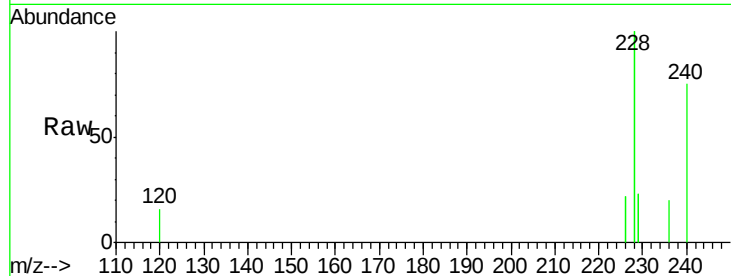
Tgt Ion:240 Resp: 134543

Ion Ratio Lower Upper

240 100

120 21.9 9.4 14.0#

236 27.3 19.9 29.9



#20

Pyrene

Concen: 8.44 ng

RT: 22.04 min Scan# 3533

Delta R.T. -0.00 min

Lab File: BE089693.D

Acq: 26 Feb 2015 14:50

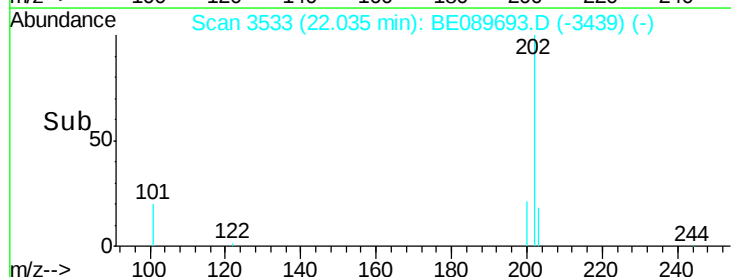
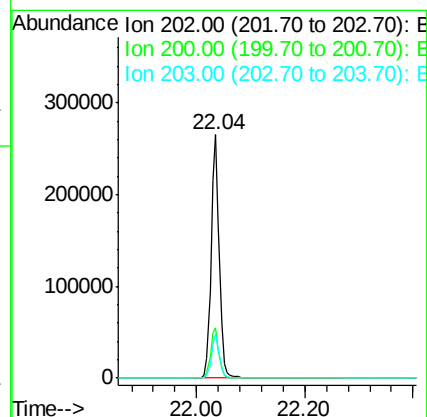
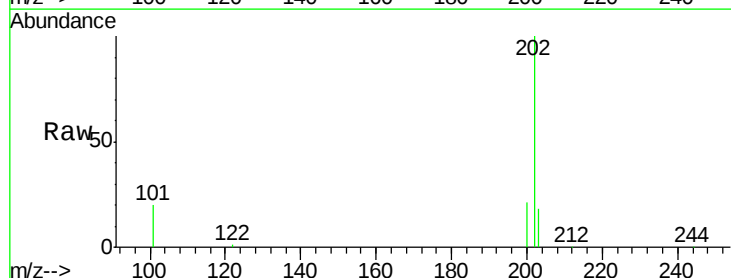
Tgt Ion:202 Resp: 274449

Ion Ratio Lower Upper

202 100

200 20.9 16.4 24.6

203 17.9 13.9 20.9





#21

Terphenyl-d14

Concen: 9.20 ng

RT: 22.29 min Scan# 3582

Delta R.T. -0.01 min

Lab File: BE089693.D

Acq: 26 Feb 2015 14:50

Instrument :

BNA_E

ClientSampleId :

PB81860BS

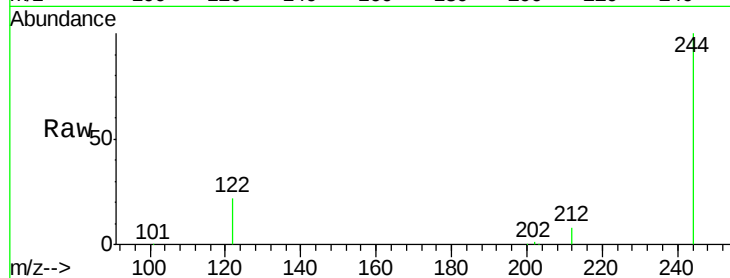
Tgt Ion:244 Resp: 145269

Ion Ratio Lower Upper

244 100

212 8.5 7.0 10.6

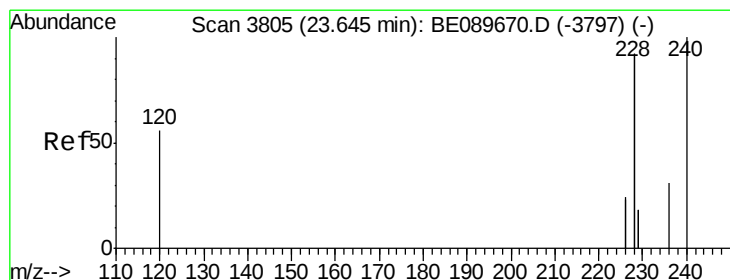
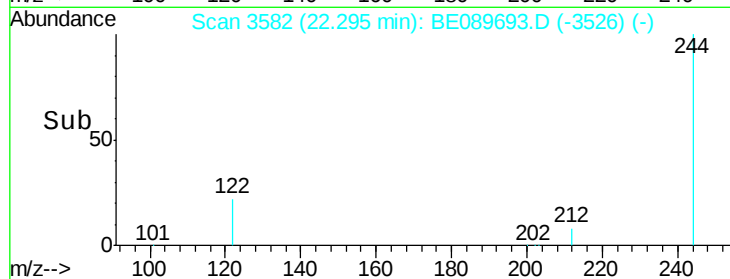
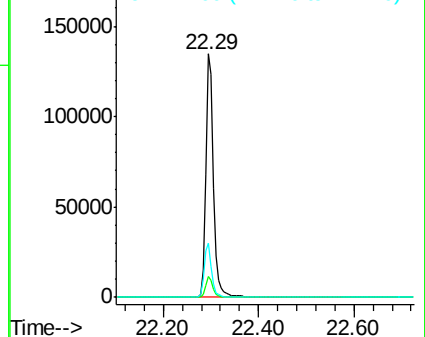
122 22.1 15.4 23.0



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: 8.98 ng

RT: 23.64 min Scan# 3802

Delta R.T. -0.01 min

Lab File: BE089693.D

Acq: 26 Feb 2015 14:50

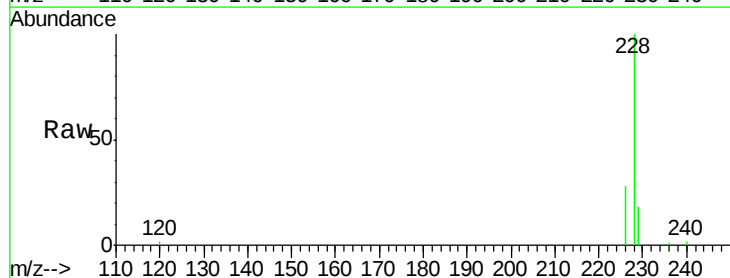
Tgt Ion:228 Resp: 794748

Ion Ratio Lower Upper

228 100

226 27.9 20.6 31.0

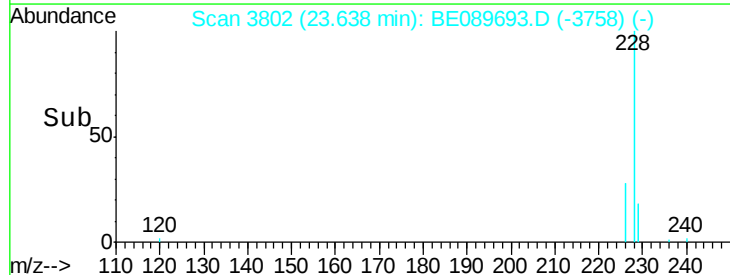
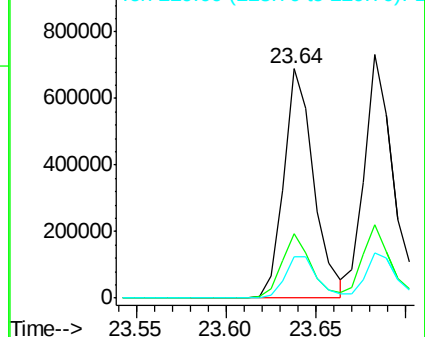
229 18.3 15.8 23.6



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: 7.41 ng

RT: 23.68 min Scan# 3809

Delta R.T. -0.00 min

Lab File: BE089693.D

Acq: 26 Feb 2015 14:50

Instrument :

BNA_E

ClientSampleId :

PB81860BS

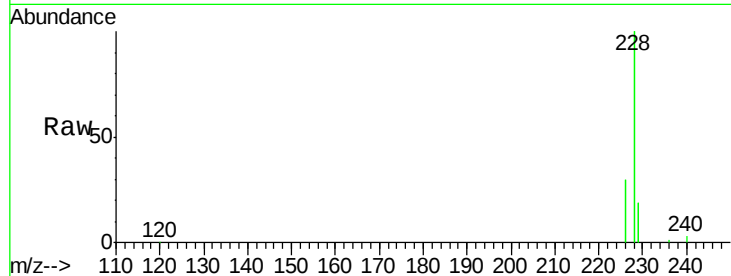
Tgt Ion:228 Resp: 903985

Ion Ratio Lower Upper

228 100

226 30.1 23.6 35.4

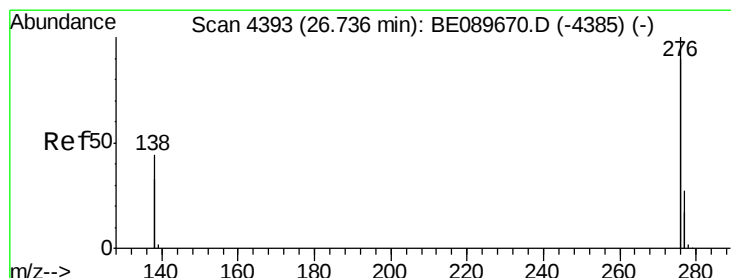
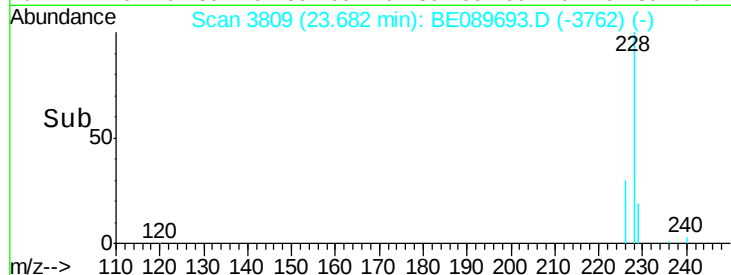
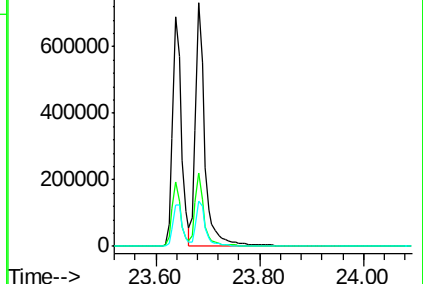
229 18.6 15.3 22.9



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: 7.53 ng

RT: 26.74 min Scan# 4393

Delta R.T. 0.01 min

Lab File: BE089693.D

Acq: 26 Feb 2015 14:50

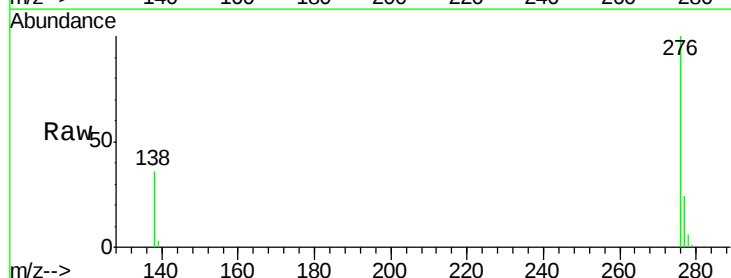
Tgt Ion:276 Resp: 689132

Ion Ratio Lower Upper

276 100

138 42.8 0.0 0.0#

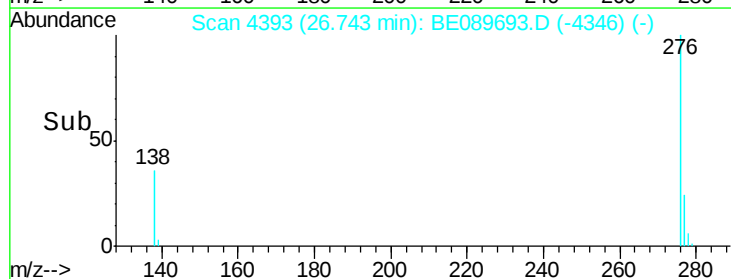
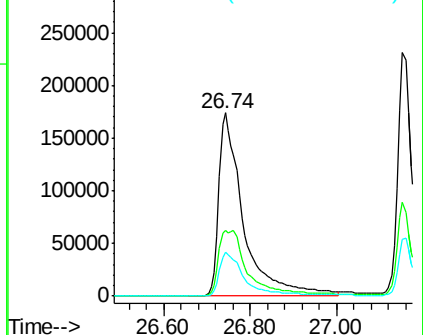
277 25.0 5.2 7.8#

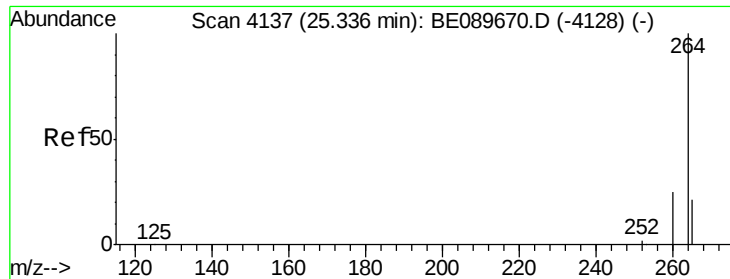


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



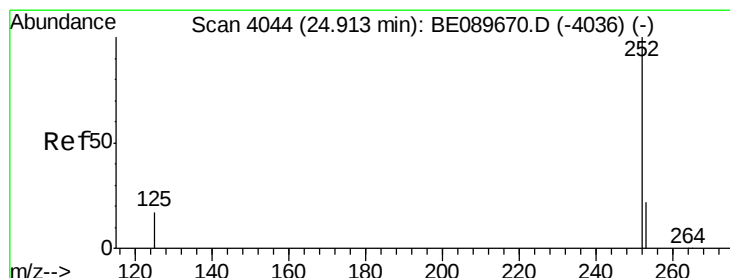
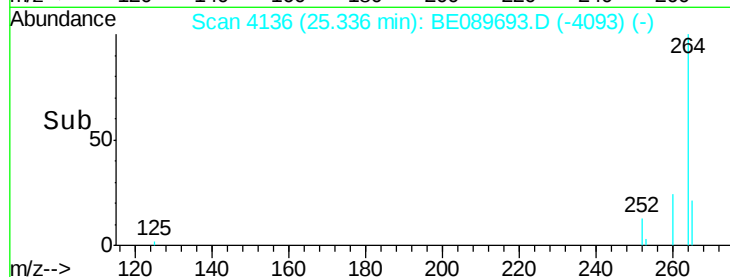
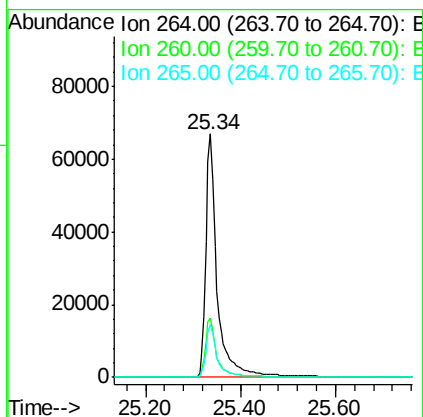
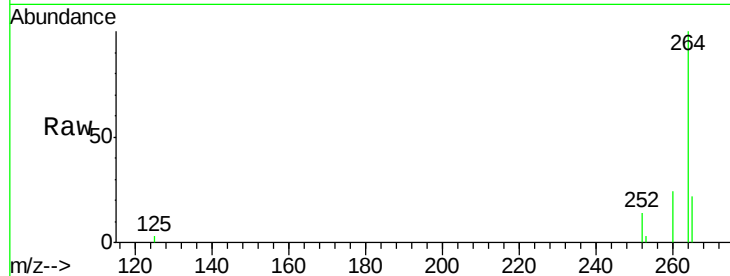


#25
Perylene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4136
Delta R.T. 0.00 min
Lab File: BE089693.D
Acq: 26 Feb 2015 14:50

Instrument :
BNA_E
ClientSampleId :
PB81860BS

Tgt Ion: 264 Resp: 110004

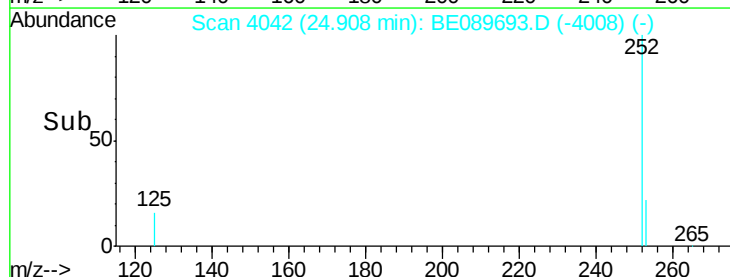
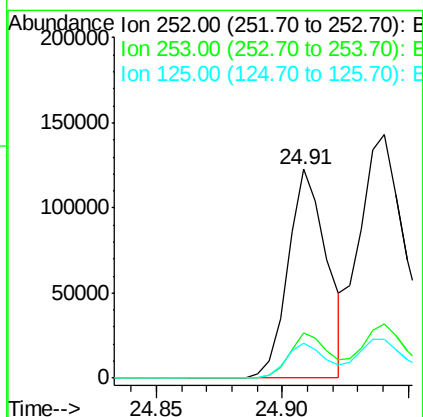
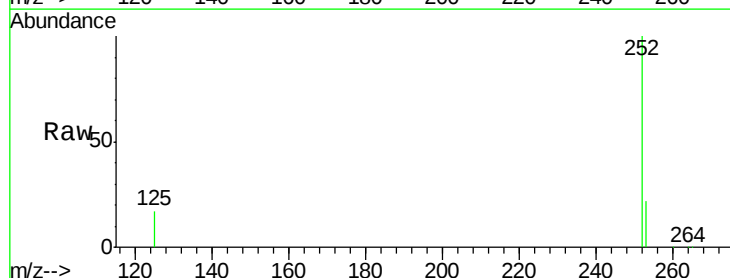
Ion	Ratio	Lower	Upper
264	100		
260	24.3	20.2	30.4
265	21.6	17.0	25.4



#26
Benzo(b)fluoranthene
Concen: 7.21 ng
RT: 24.91 min Scan# 4042
Delta R.T. -0.00 min
Lab File: BE089693.D
Acq: 26 Feb 2015 14:50

Tgt Ion: 252 Resp: 131008

Ion	Ratio	Lower	Upper
252	100		
253	21.6	18.6	27.8
125	16.5	15.0	22.6

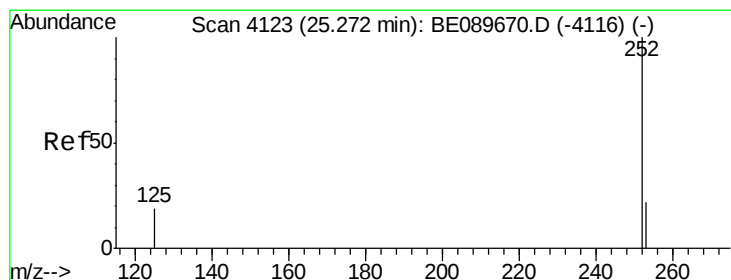
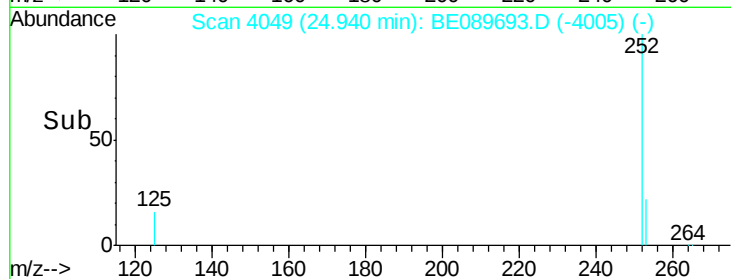
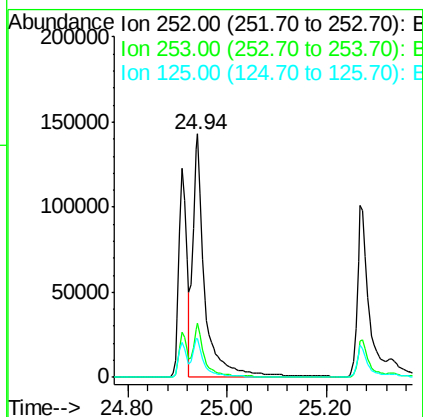
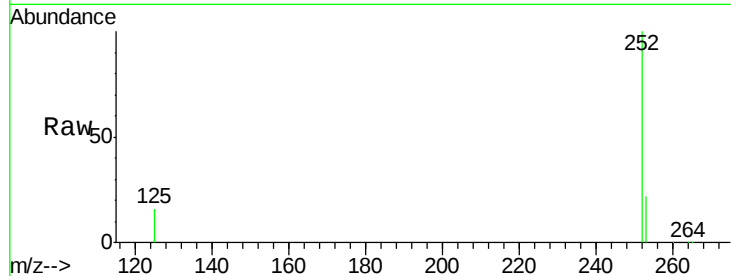




#27
Benzo(k)fluoranthene
Concen: 8.58 ng
RT: 24.94 min Scan# 4049
Delta R.T. 0.00 min
Lab File: BE089693.D
Acq: 26 Feb 2015 14:50

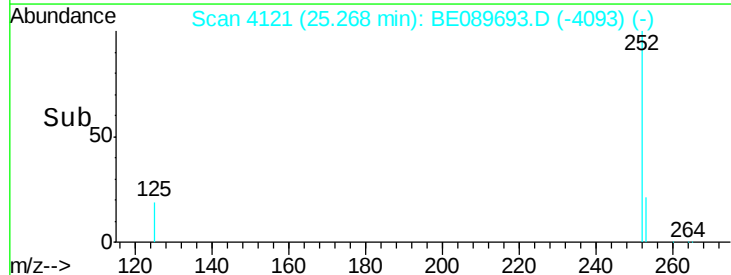
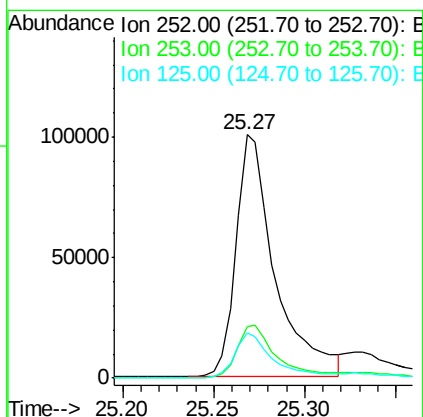
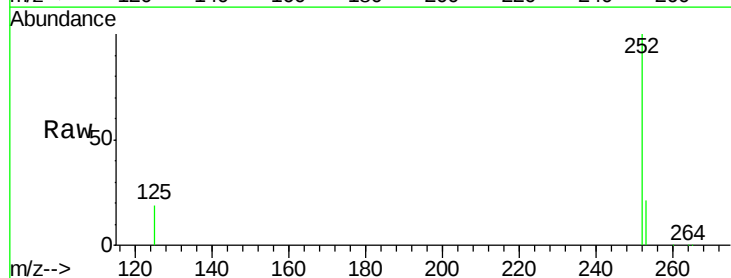
Instrument :
BNA_E
ClientSampleId :
PB81860BS

Tgt Ion:252 Resp: 236986
Ion Ratio Lower Upper
252 100
253 22.3 18.0 27.0
125 16.2 14.3 21.5



#28
Benzo(a)pyrene
Concen: 7.00 ng
RT: 25.27 min Scan# 4121
Delta R.T. -0.00 min
Lab File: BE089693.D
Acq: 26 Feb 2015 14:50

Tgt Ion:252 Resp: 150544
Ion Ratio Lower Upper
252 100
253 21.2 18.8 28.2
125 18.7 16.6 24.8





#29

Dibenzo(a,h)anthracene

Concen: 7.23 ng

RT: 26.77 min Scan# 4397

Delta R.T. 0.00 min

Lab File: BE089693.D

Acq: 26 Feb 2015 14:50

Instrument :

BNA_E

ClientSampleId :

PB81860BS

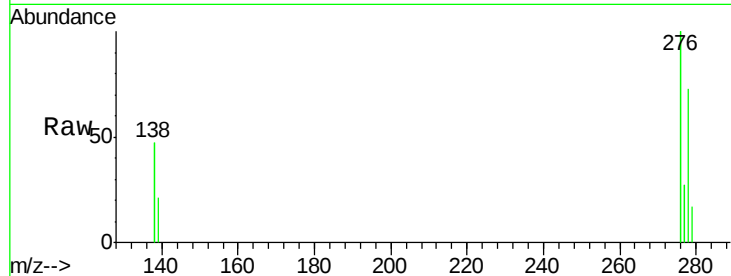
Tgt Ion:278 Resp: 139680

Ion Ratio Lower Upper

278 100

139 28.1 30.4 45.6#

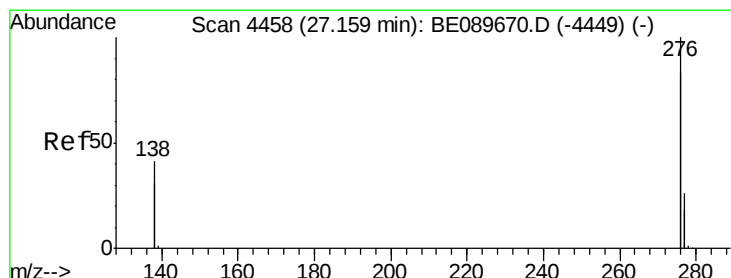
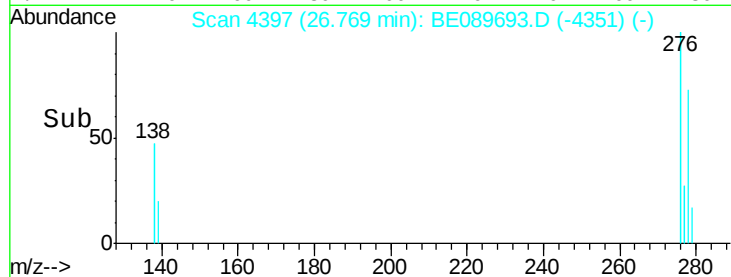
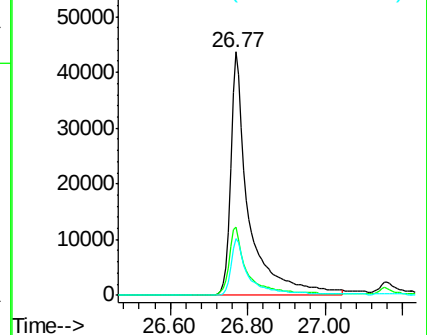
279 23.5 22.0 33.0



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: 12.14 ng

RT: 27.15 min Scan# 4456

Delta R.T. -0.01 min

Lab File: BE089693.D

Acq: 26 Feb 2015 14:50

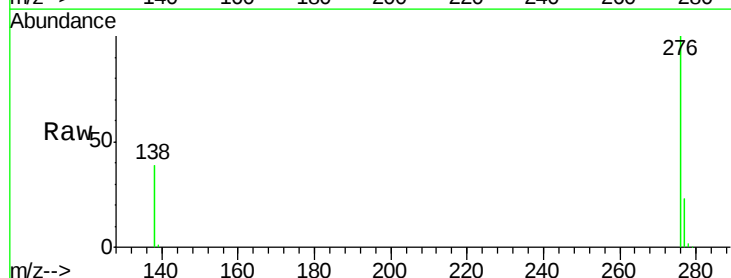
Tgt Ion:276 Resp: 639076

Ion Ratio Lower Upper

276 100

277 23.1 21.0 31.6

138 38.6 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

