

Data Path : Z:\HPCHEM1\BNA_E\Data\BE010915\
 Data File : BE089388.D
 Acq On : 9 Jan 2015 19:34
 Operator : TP/IZ
 Sample : PB81206BS
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81206BS

Quant Time: Jan 10 00:38:25 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BASE-BE010715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jan 10 00:23:37 2015
 Response via : Initial Calibration

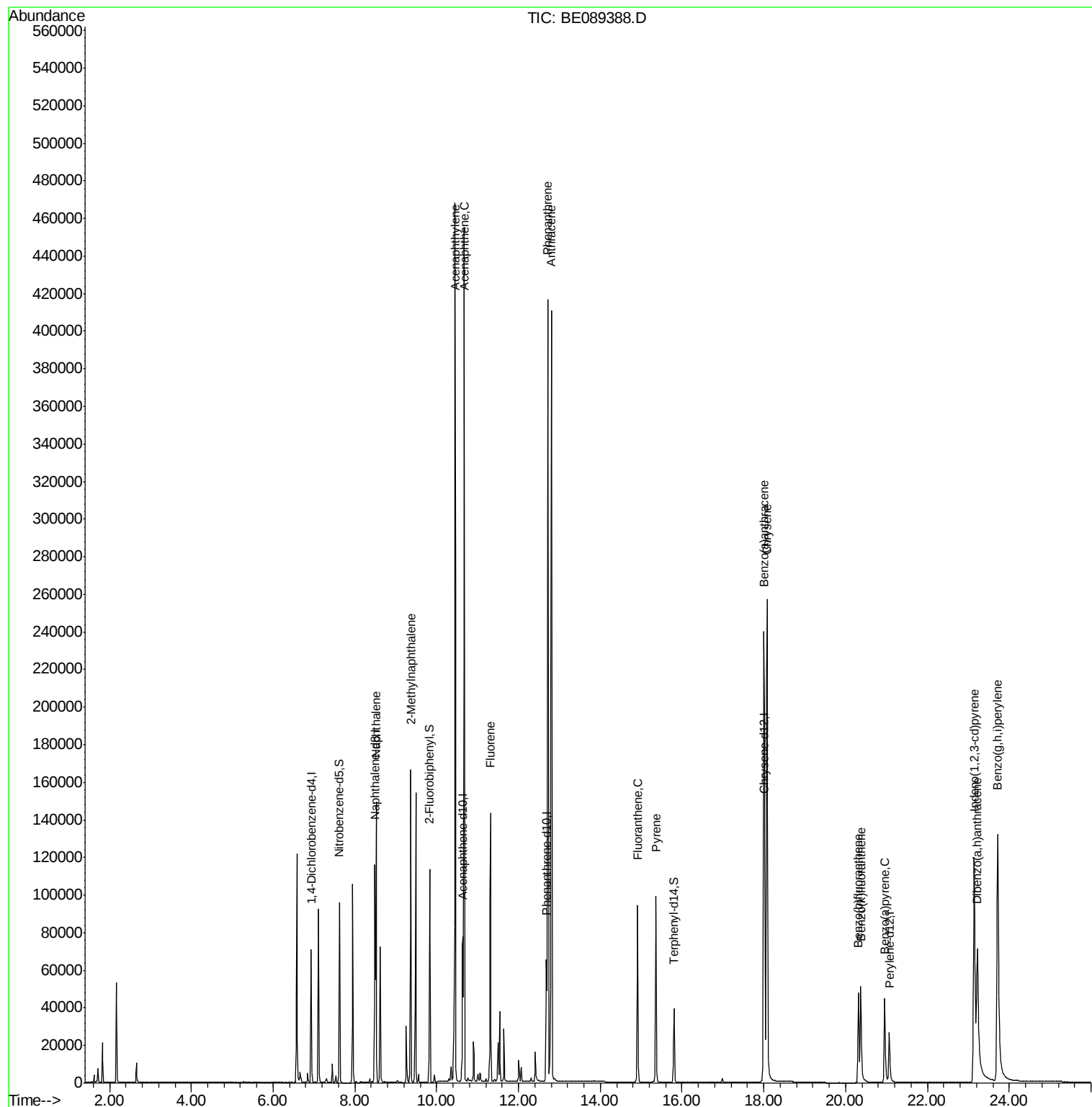
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.93	152	23170	5.00	ng	0.00
2) Naphthalene-d8	8.49	136	89118	5.00	ng	0.00
6) Acenaphthene-d10	10.63	164	39441	5.00	ng	0.00
11) Phenanthrene-d10	12.68	188	60785	5.00	ng	0.00
15) Chrysene-d12	18.03	240	44254	5.00	ng	0.00
21) Perylene-d12	21.07	264	40383	5.00	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	7.62	82	50195	8.10	ng	0.00
7) 2-Fluorobiphenyl	9.83	172	78463	7.29	ng	0.00
17) Terphenyl-d14	15.80	244	54428	6.95	ng	0.00
Target Compounds						Qvalue
4) Naphthalene	8.52	128	136767	6.82	ng	98
5) 2-Methylnaphthalene	9.37	142	83866	6.68	ng	98
8) Acenaphthylene	10.45	152	479608	7.11	ng	99
9) Acenaphthene	10.67	154	69827	6.64	ng	90
10) Fluorene	11.32	166	77721	6.90	ng	100
12) Phenanthrene	12.72	178	433100	6.83	ng	98
13) Anthracene	12.80	178	443948	7.25	ng	99
14) Fluoranthene	14.91	202	98022	6.99	ng	98
16) Pyrene	15.36	202	103221	7.11	ng	98
18) Benzo(a)anthracene	18.00	228	322865	7.19	ng	99
19) Chrysene	18.08	228	332391	7.39	ng	98
20) Indeno(1,2,3-cd)pyrene	23.15	276	210446	4.88	ng	98
22) Benzo(b)fluoranthene	20.32	252	70506	7.99	ng	98
23) Benzo(k)fluoranthene	20.37	252	84162	7.57	ng	98
24) Benzo(a)pyrene	20.96	252	70859	8.14	ng	97
25) Dibenzo(a,h)anthracene	23.23	278	59738	7.49	ng	96
26) Benzo(g,h,i)perylene	23.72	276	279643	6.96	ng	97

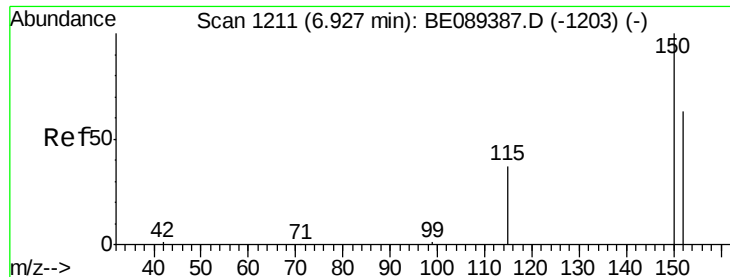
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.93 min Scan# 1211

Delta R.T. 0.00 min

Lab File: BE089388.D

Acq: 9 Jan 2015 19:34

Instrument :

BNA_E

ClientSampleId :

PB81206BS

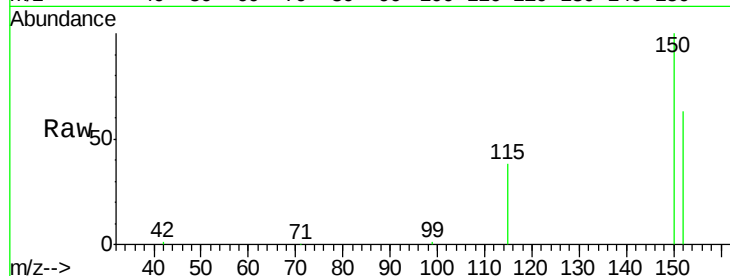
Tgt Ion:152 Resp: 23170

Ion Ratio Lower Upper

152 100

150 159.0 121.5 182.3

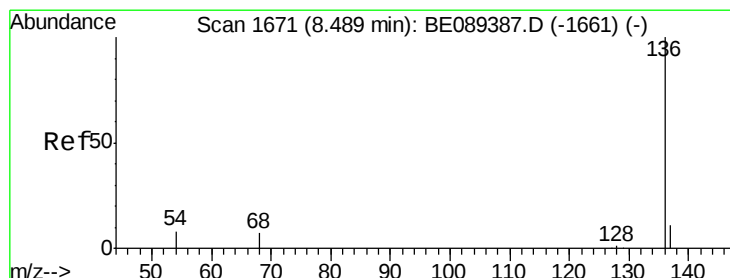
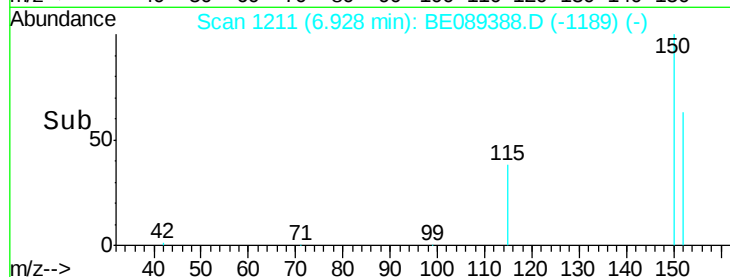
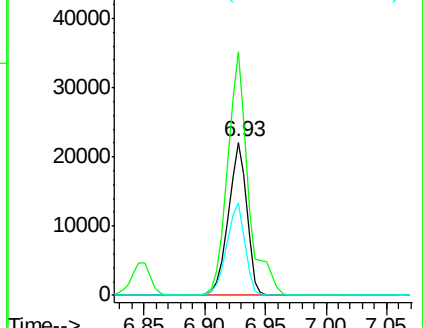
115 60.5 45.2 67.8



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 8.49 min Scan# 1671

Delta R.T. 0.00 min

Lab File: BE089388.D

Acq: 9 Jan 2015 19:34

Tgt Ion:136 Resp: 89118

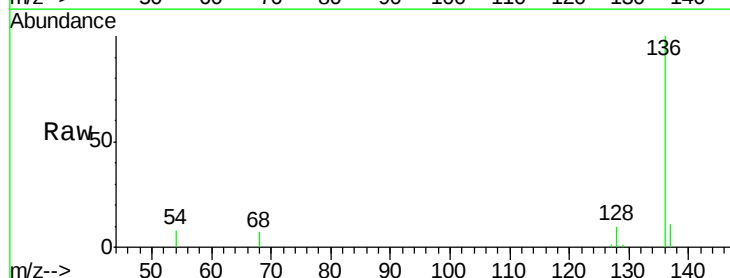
Ion Ratio Lower Upper

136 100

137 11.0 9.0 13.4

54 7.7 5.4 8.0

68 6.8 4.7 7.1

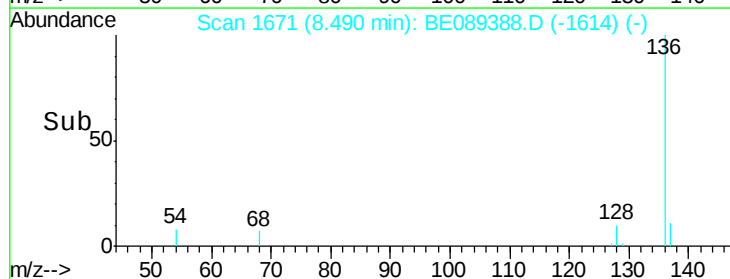
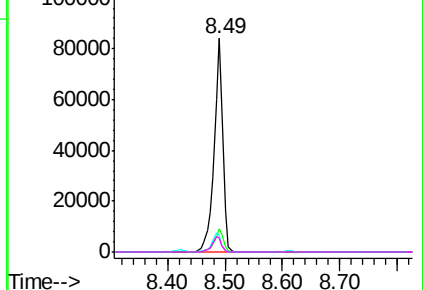


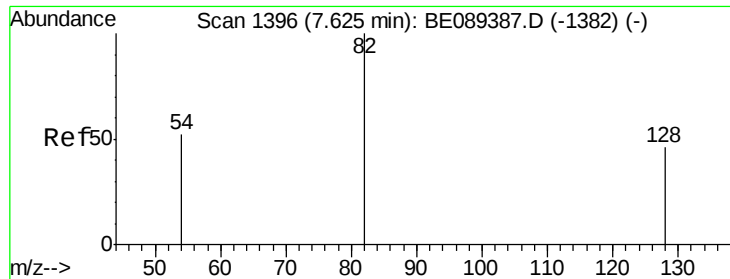
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0





#3

Nitrobenzene-d5

Concen: 8.10 ng

RT: 7.62 min Scan# 1395

Delta R.T. -0.00 min

Lab File: BE089388.D

Acq: 9 Jan 2015 19:34

Instrument :

BNA_E

ClientSampleId :

PB81206BS

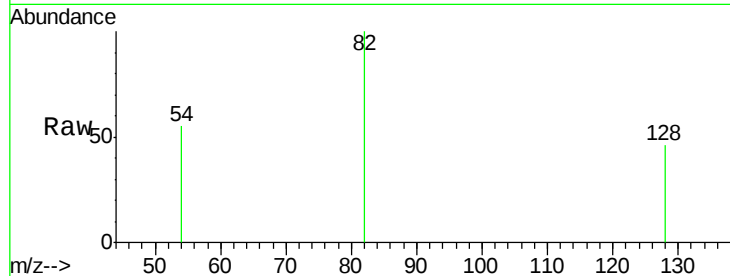
Tgt Ion: 82 Resp: 50195

Ion Ratio Lower Upper

82 100

128 45.5 36.5 54.7

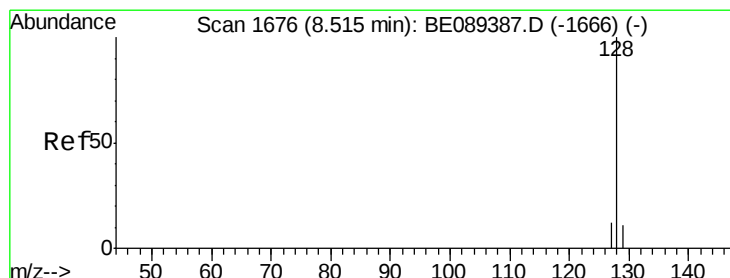
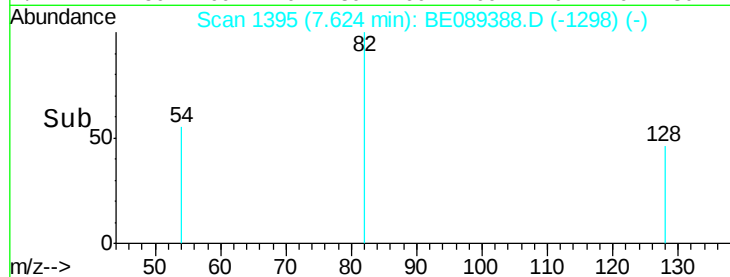
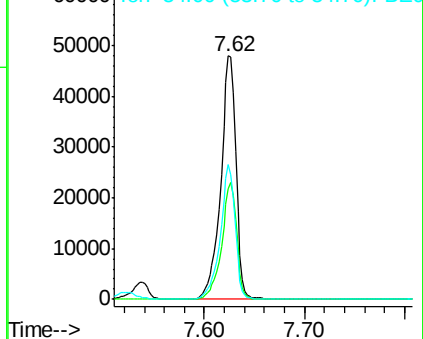
54 55.1 43.5 65.3



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#4

Naphthalene

Concen: 6.82 ng

RT: 8.52 min Scan# 1676

Delta R.T. 0.00 min

Lab File: BE089388.D

Acq: 9 Jan 2015 19:34

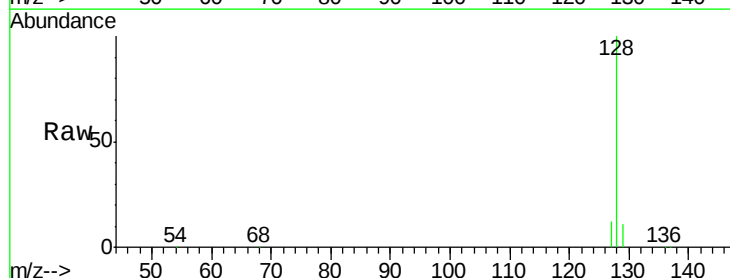
Tgt Ion: 128 Resp: 136767

Ion Ratio Lower Upper

128 100

129 11.3 8.8 13.2

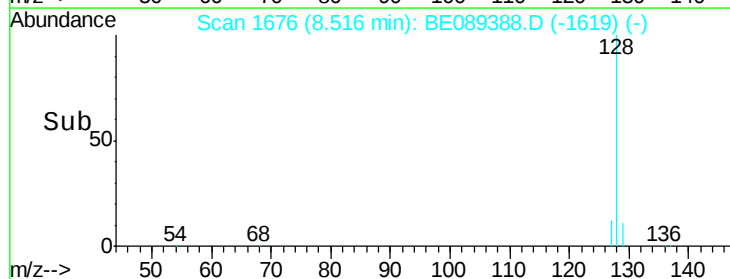
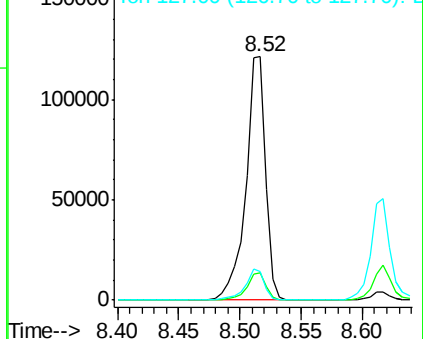
127 11.6 10.0 15.0

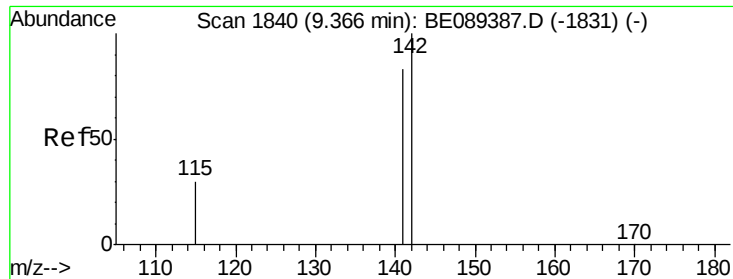


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#5

2-Methylnaphthalene

Concen: 6.68 ng

RT: 9.37 min Scan# 1839

Delta R.T. 0.00 min

Lab File: BE089388.D

Acq: 9 Jan 2015 19:34

Instrument :

BNA_E

ClientSampleId :

PB81206BS

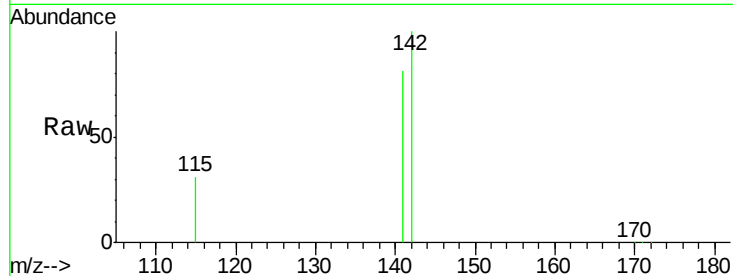
Tgt Ion:142 Resp: 83866

Ion Ratio Lower Upper

142 100

141 81.0 66.3 99.5

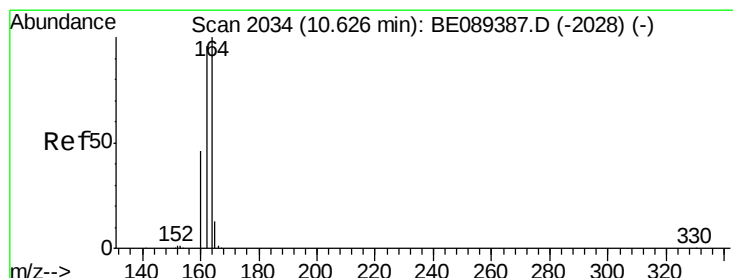
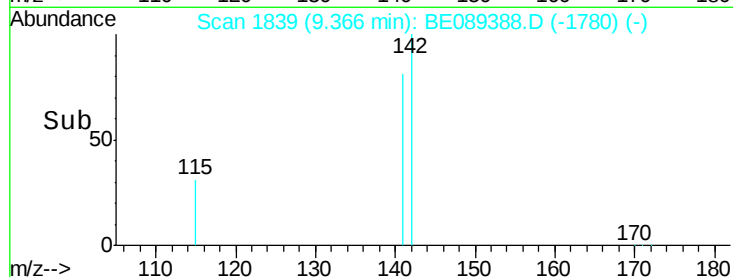
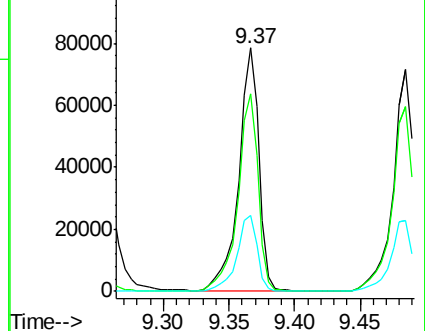
115 31.3 25.2 37.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#6

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.63 min Scan# 2033

Delta R.T. 0.00 min

Lab File: BE089388.D

Acq: 9 Jan 2015 19:34

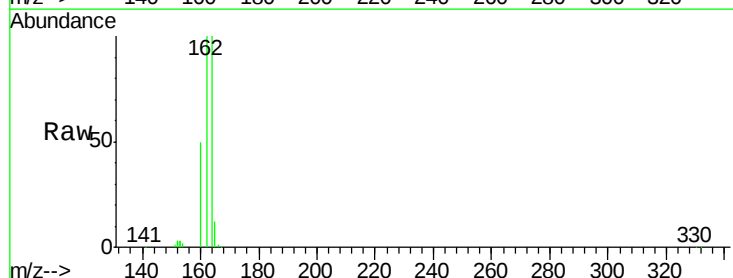
Tgt Ion:164 Resp: 39441

Ion Ratio Lower Upper

164 100

162 100.0 77.4 116.2

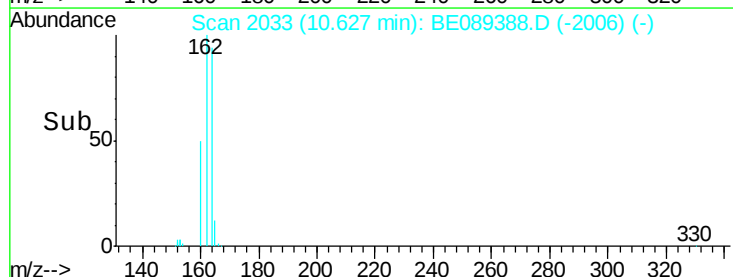
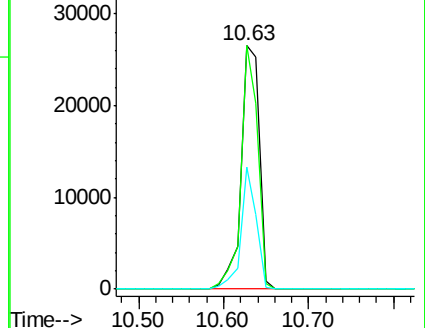
160 50.0 38.2 57.4

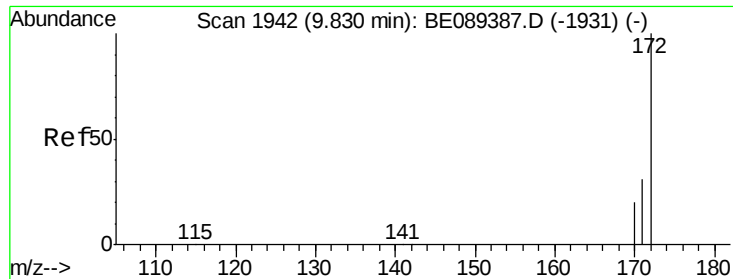


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 7.29 ng

RT: 9.83 min Scan# 1941

Delta R.T. 0.00 min

Lab File: BE089388.D

Acq: 9 Jan 2015 19:34

Instrument :

BNA_E

ClientSampleId :

PB81206BS

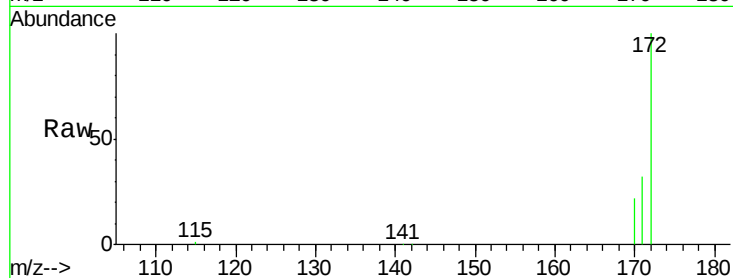
Tgt Ion:172 Resp: 78463

Ion Ratio Lower Upper

172 100

171 32.1 26.4 39.6

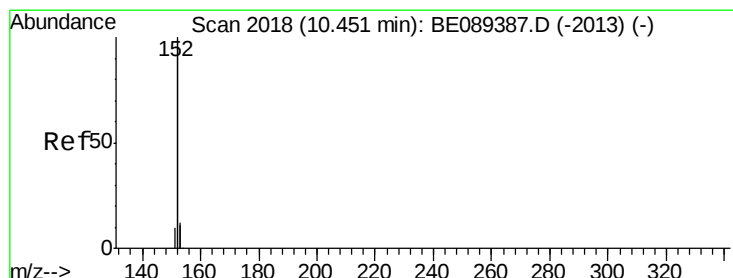
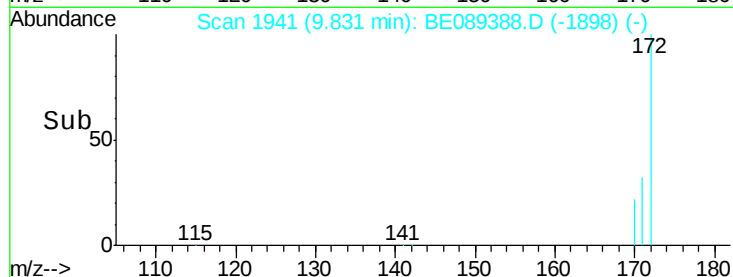
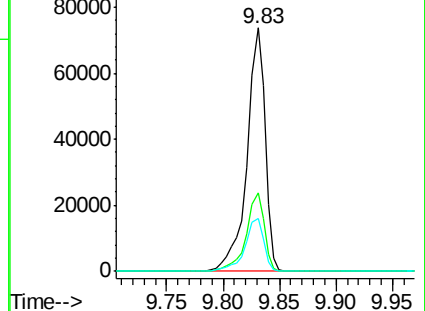
170 21.6 18.0 27.0



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



#8

Acenaphthylene

Concen: 7.11 ng

RT: 10.45 min Scan# 2017

Delta R.T. 0.00 min

Lab File: BE089388.D

Acq: 9 Jan 2015 19:34

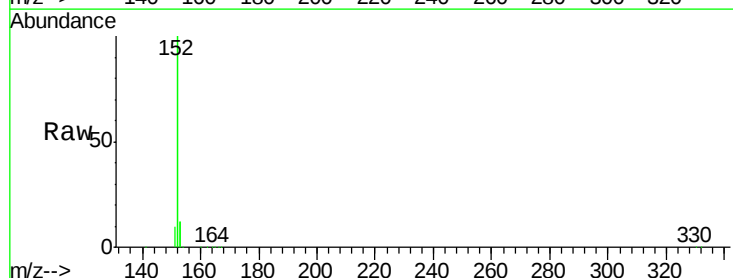
Tgt Ion:152 Resp: 479608

Ion Ratio Lower Upper

152 100

151 5.1 4.1 6.1

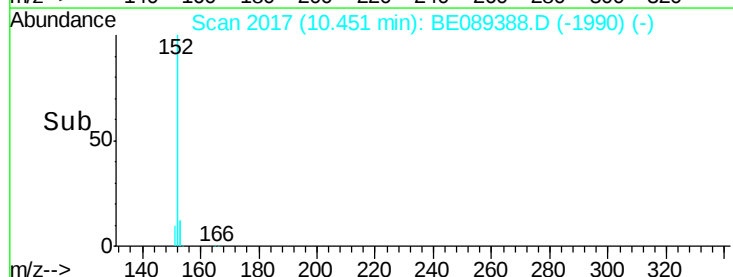
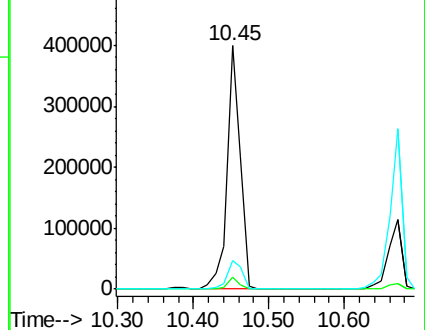
153 11.8 9.8 14.6

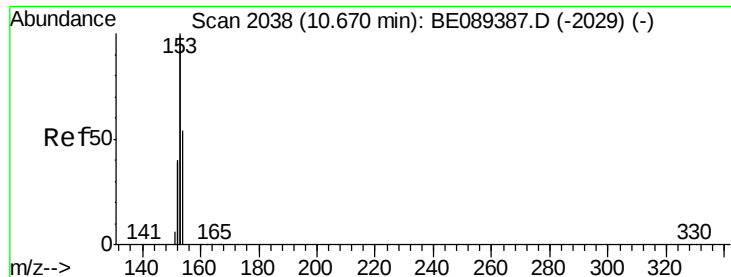


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 6.64 ng

RT: 10.67 min Scan# 2037

Delta R.T. 0.00 min

Lab File: BE089388.D

Acq: 9 Jan 2015 19:34

Instrument :

BNA_E

ClientSampleId :

PB81206BS

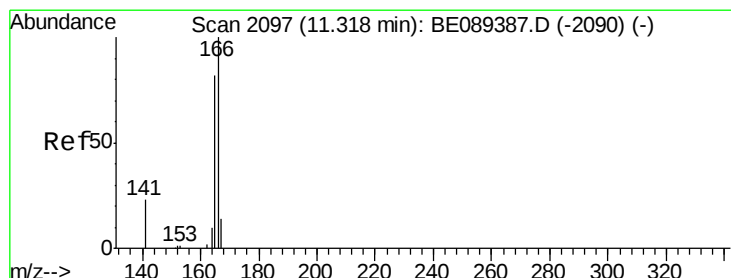
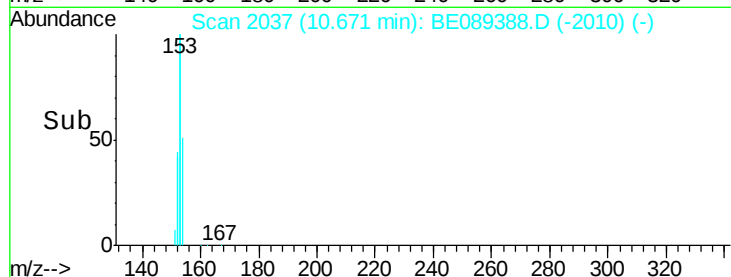
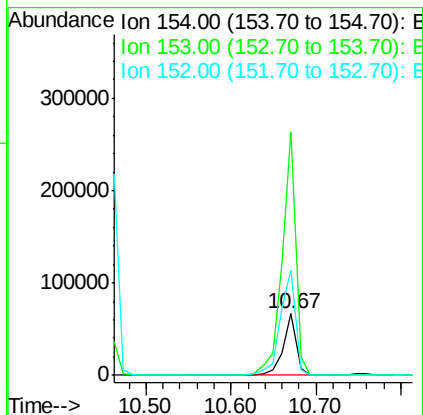
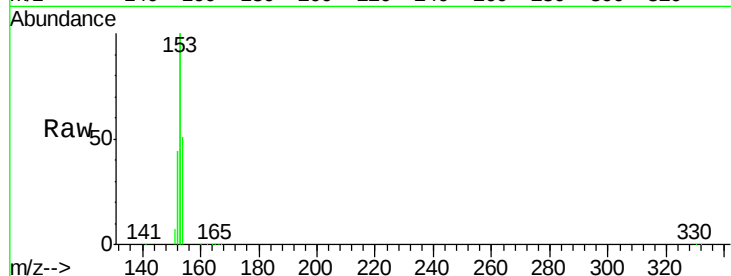
Tgt Ion:154 Resp: 69827

Ion Ratio Lower Upper

154 100

153 394.6 300.6 450.8

152 171.8 123.3 184.9



#10

Fluorene

Concen: 6.90 ng

RT: 11.32 min Scan# 2096

Delta R.T. 0.00 min

Lab File: BE089388.D

Acq: 9 Jan 2015 19:34

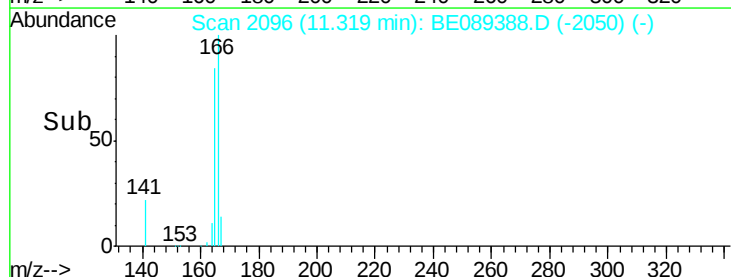
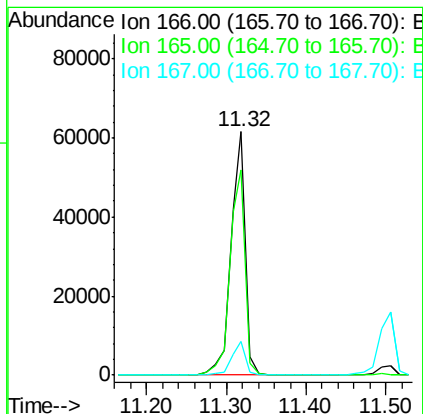
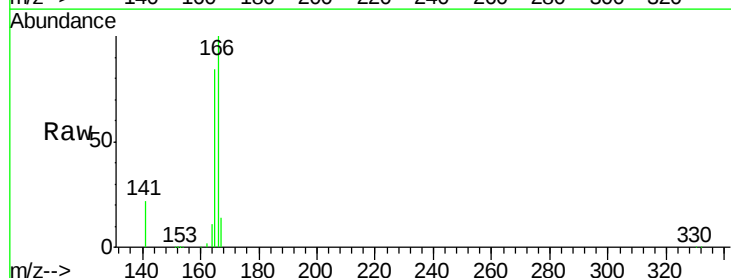
Tgt Ion:166 Resp: 77721

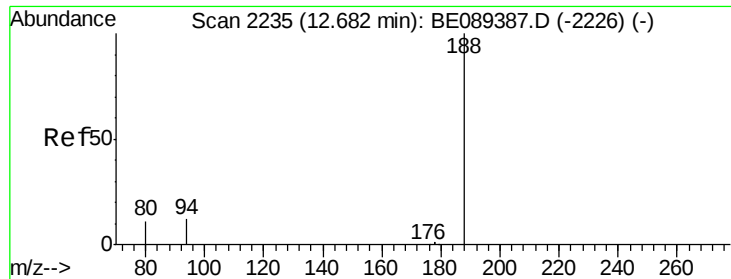
Ion Ratio Lower Upper

166 100

165 89.8 72.1 108.1

167 13.4 11.0 16.4

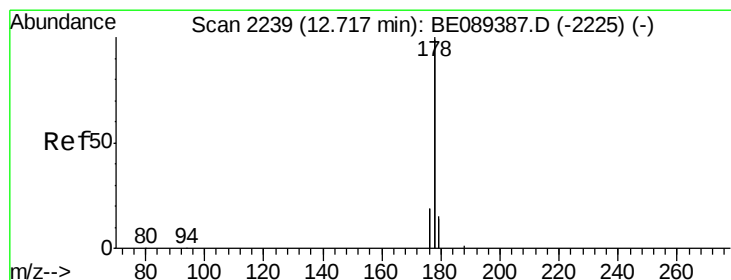
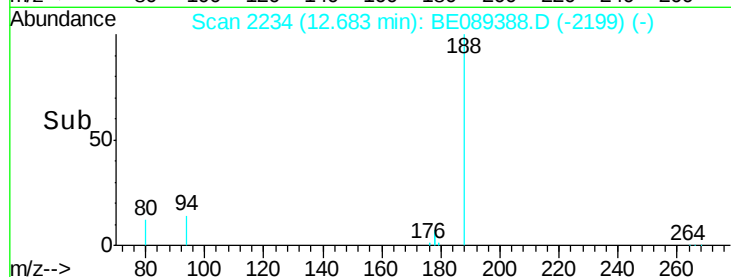
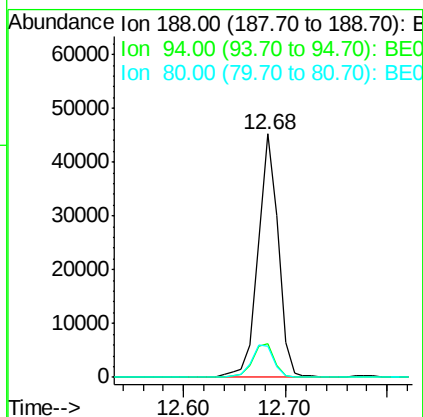
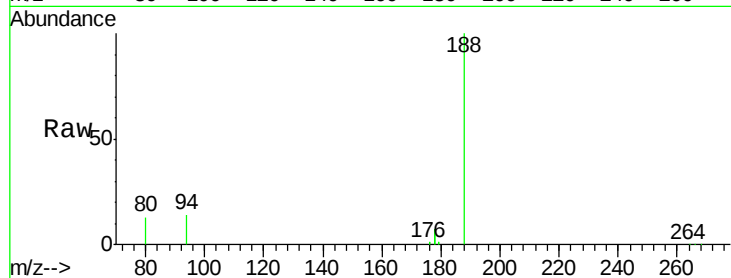




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.68 min Scan# 2234
Delta R.T. 0.00 min
Lab File: BE089388.D
Acq: 9 Jan 2015 19:34

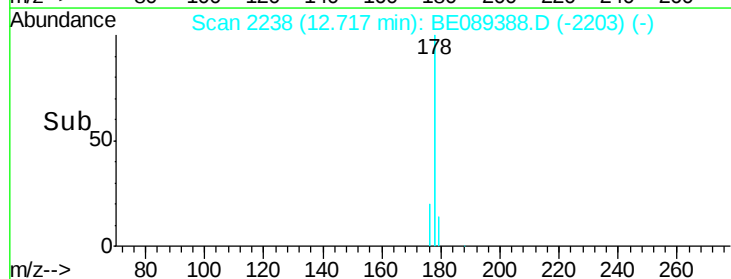
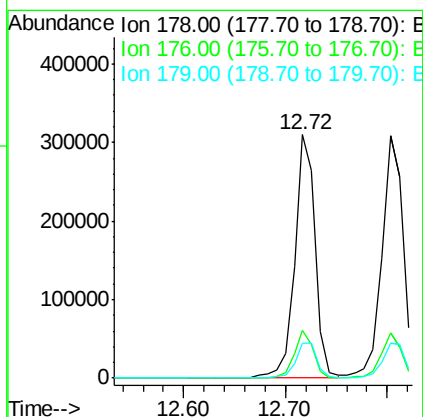
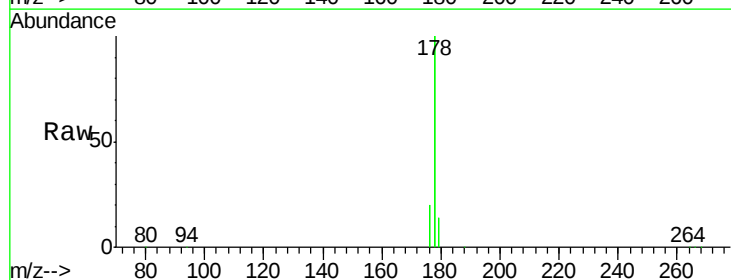
Instrument :
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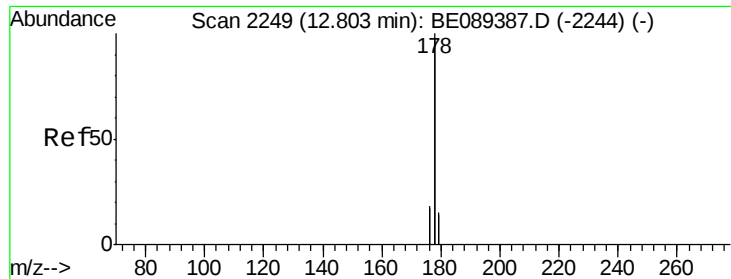
Tgt Ion:188 Resp: 60785
Ion Ratio Lower Upper
188 100
94 13.6 11.0 12.2#
80 12.6 10.1 11.1#



#12
Phenanthrene
Concen: 6.83 ng
RT: 12.72 min Scan# 2238
Delta R.T. 0.00 min
Lab File: BE089388.D
Acq: 9 Jan 2015 19:34

Tgt Ion:178 Resp: 433100
Ion Ratio Lower Upper
178 100
176 19.8 15.1 22.7
179 14.5 12.2 18.2





#13

Anthracene

Concen: 7.25 ng

RT: 12.80 min Scan# 2248

Delta R.T. 0.00 min

Lab File: BE089388.D

Acq: 9 Jan 2015 19:34

Instrument :

BNA_E

ClientSampleId :

PB81206BS

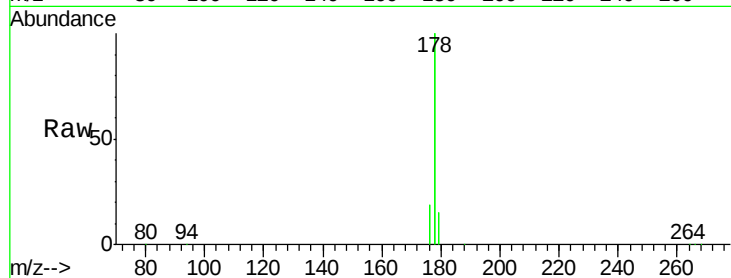
Tgt Ion:178 Resp: 443948

Ion Ratio Lower Upper

178 100

176 18.7 14.7 22.1

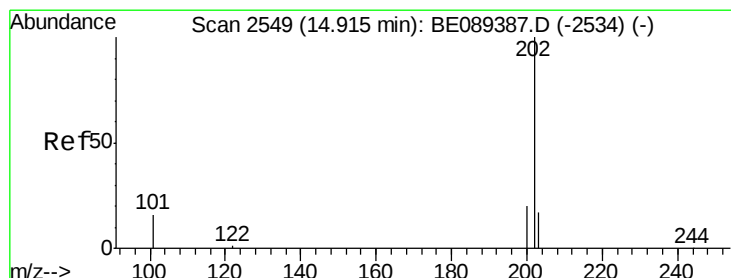
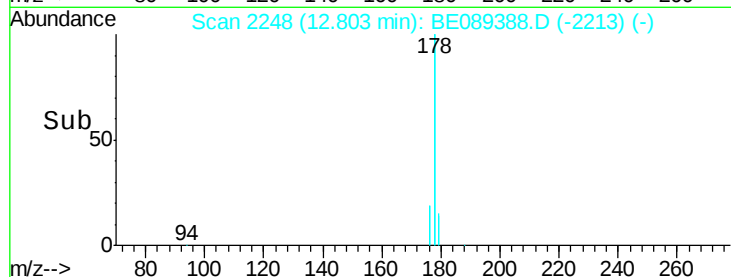
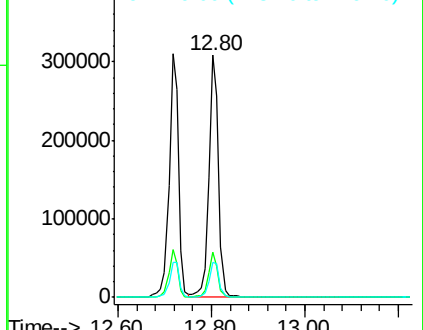
179 14.6 12.0 18.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#14

Fluoranthene

Concen: 6.99 ng

RT: 14.91 min Scan# 2548

Delta R.T. -0.00 min

Lab File: BE089388.D

Acq: 9 Jan 2015 19:34

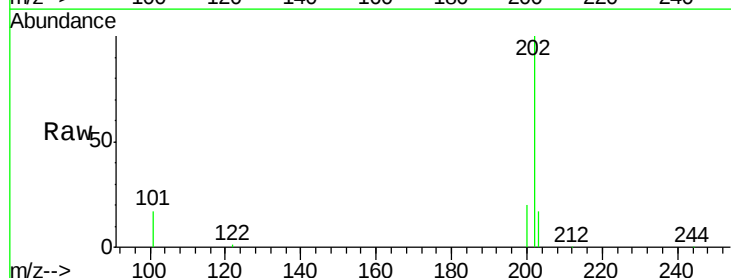
Tgt Ion:202 Resp: 98022

Ion Ratio Lower Upper

202 100

101 16.6 0.0 37.9

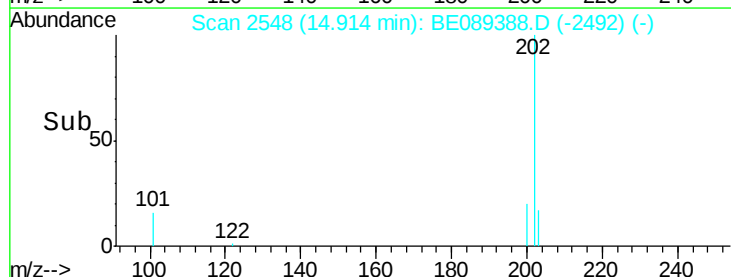
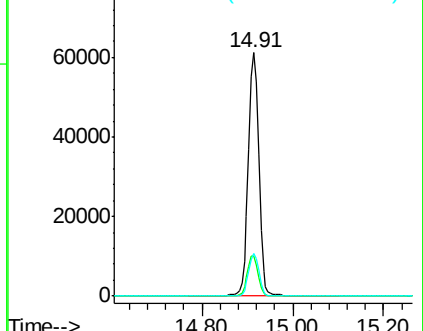
203 17.4 0.0 37.5

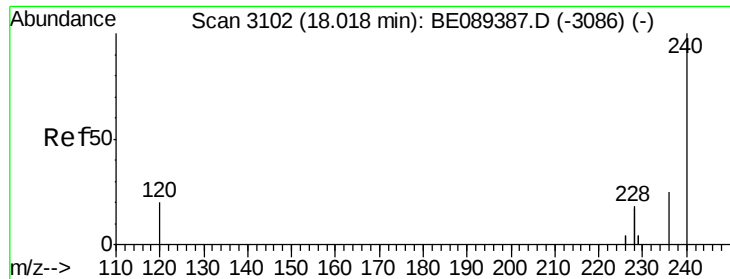


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

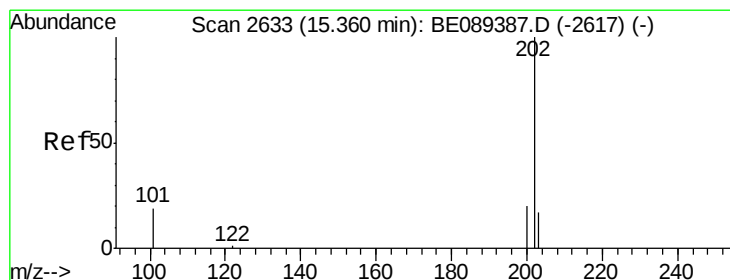
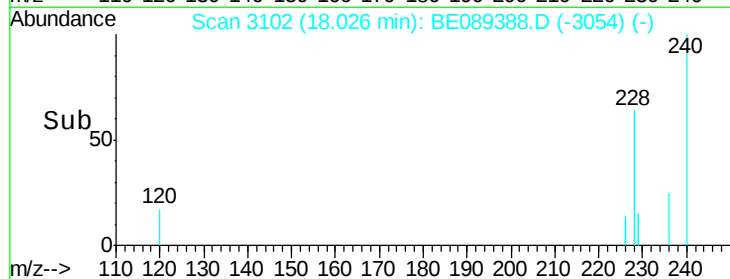
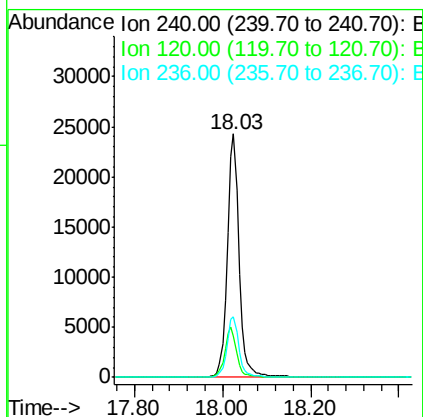
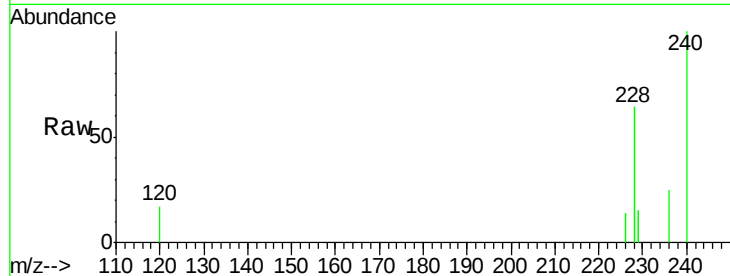




#15
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.03 min Scan# 3102
 Delta R.T. 0.01 min
 Lab File: BE089388.D
 Acq: 9 Jan 2015 19:34

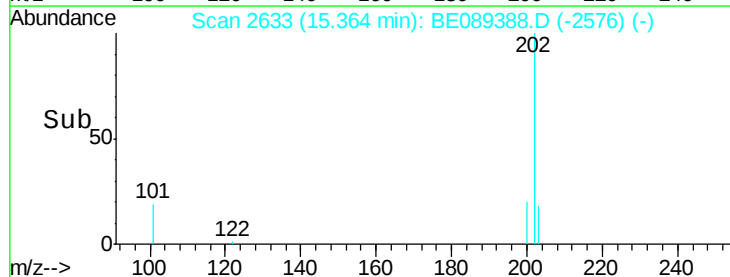
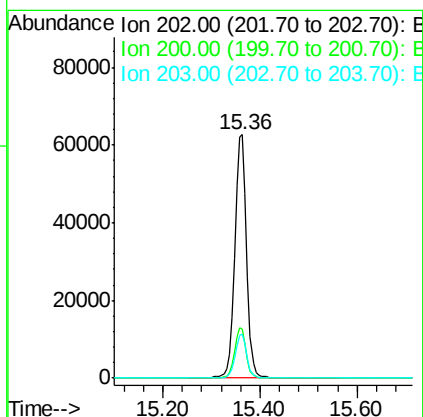
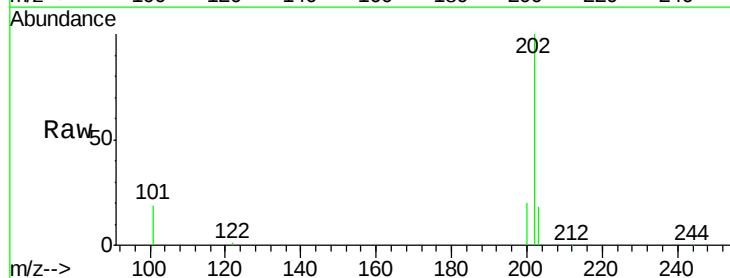
Instrument :
 BNA_E
 ClientSampleId :
 PB81206BS

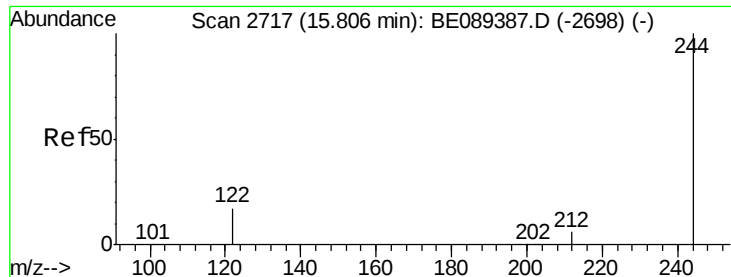
Tgt Ion:240 Resp: 44254
 Ion Ratio Lower Upper
 240 100
 120 16.8 11.8 17.6
 236 25.1 20.0 30.0



#16
 Pyrene
 Concen: 7.11 ng
 RT: 15.36 min Scan# 2633
 Delta R.T. 0.00 min
 Lab File: BE089388.D
 Acq: 9 Jan 2015 19:34

Tgt Ion:202 Resp: 103221
 Ion Ratio Lower Upper
 202 100
 200 20.1 16.8 25.2
 203 18.0 14.0 21.0

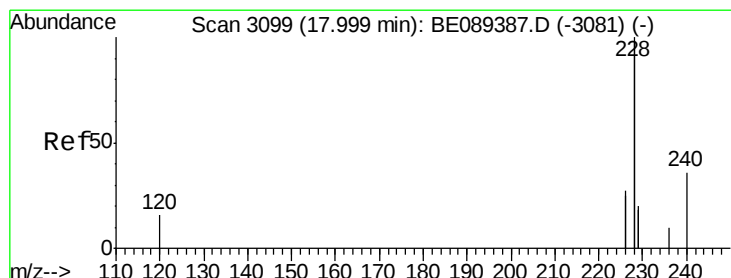
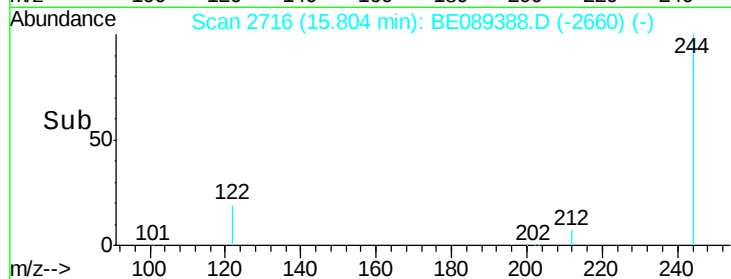
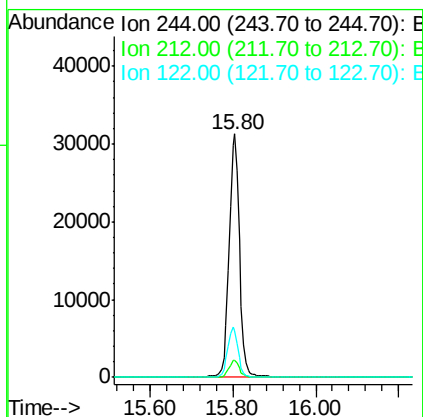
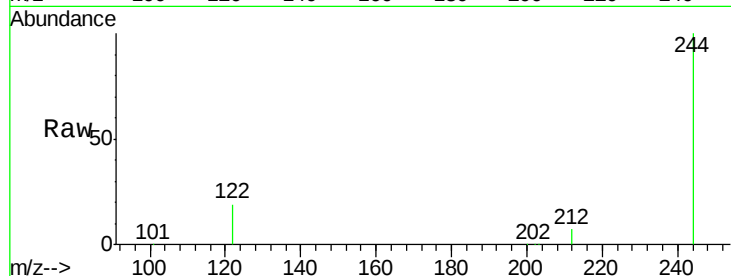




#17
 Terphenyl-d14
 Concen: 6.95 ng
 RT: 15.80 min Scan# 2716
 Delta R.T. -0.00 min
 Lab File: BE089388.D
 Acq: 9 Jan 2015 19:34

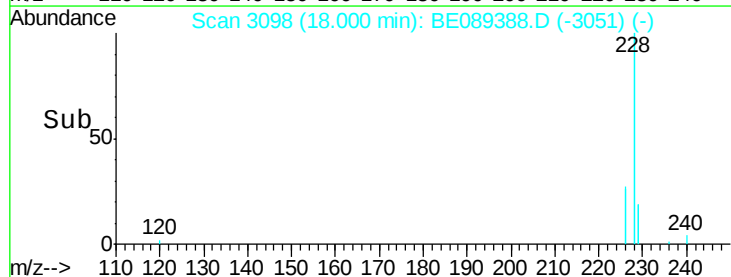
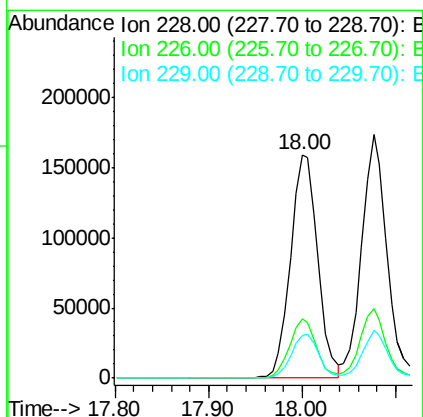
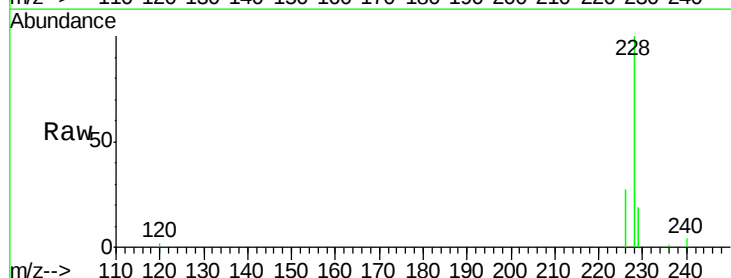
Instrument :
 BNA_E
 ClientSampleId :
 PB81206BS

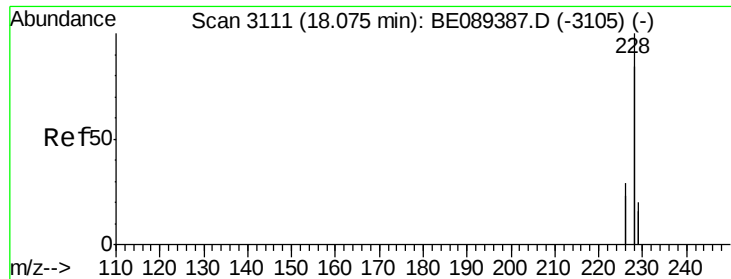
Tgt Ion: 244 Resp: 54428
 Ion Ratio Lower Upper
 244 100
 212 7.0 6.3 9.5
 122 19.1 17.7 26.5



#18
 Benzo(a)anthracene
 Concen: 7.19 ng
 RT: 18.00 min Scan# 3098
 Delta R.T. 0.00 min
 Lab File: BE089388.D
 Acq: 9 Jan 2015 19:34

Tgt Ion: 228 Resp: 322865
 Ion Ratio Lower Upper
 228 100
 226 26.5 21.0 31.6
 229 19.3 16.0 24.0





#19

Chrysene

Concen: 7.39 ng

RT: 18.08 min Scan# 3110

Delta R.T. 0.00 min

Lab File: BE089388.D

Acq: 9 Jan 2015 19:34

Instrument :

BNA_E

ClientSampleId :

PB81206BS

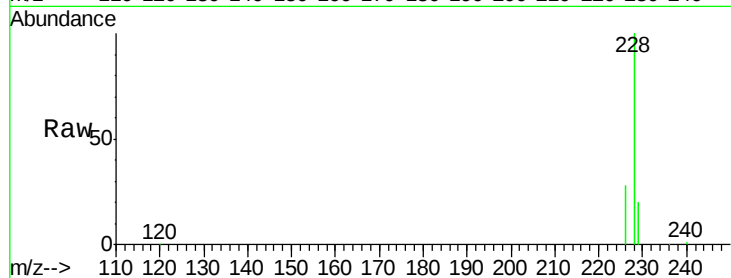
Tgt Ion:228 Resp: 332391

Ion Ratio Lower Upper

228 100

226 28.5 23.5 35.3

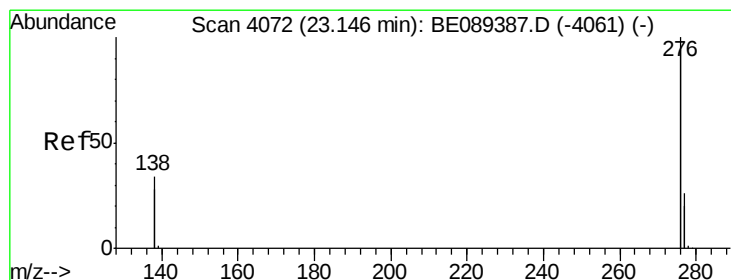
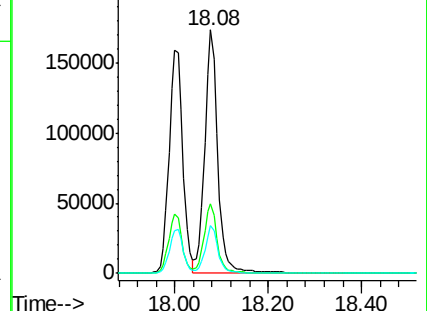
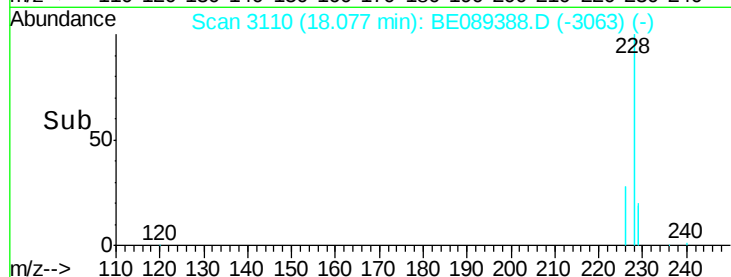
229 19.5 16.1 24.1



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#20

Indeno(1,2,3-cd)pyrene

Concen: 4.88 ng

RT: 23.15 min Scan# 4071

Delta R.T. -0.00 min

Lab File: BE089388.D

Acq: 9 Jan 2015 19:34

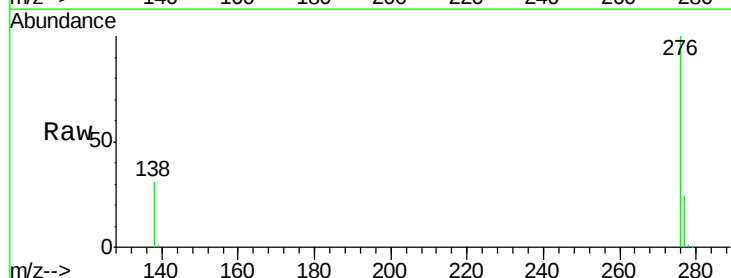
Tgt Ion:276 Resp: 210446

Ion Ratio Lower Upper

276 100

138 30.9 23.8 35.8

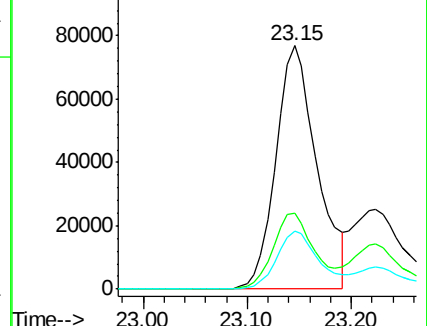
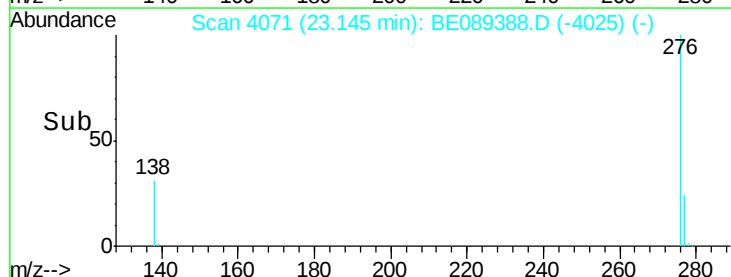
277 23.7 18.2 27.4

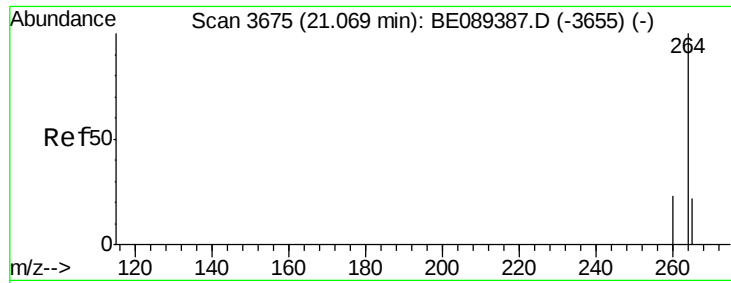


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

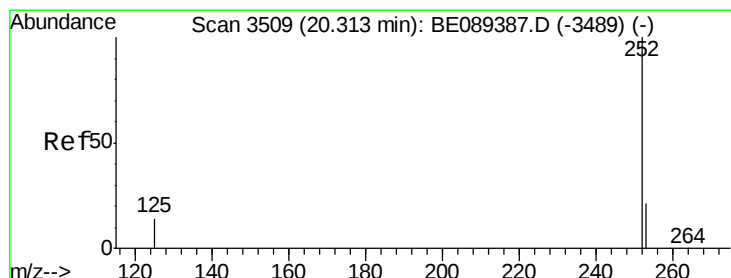
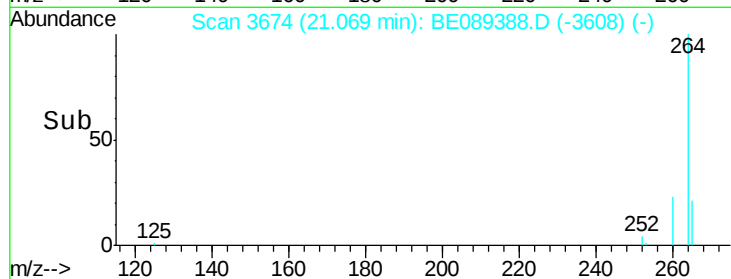
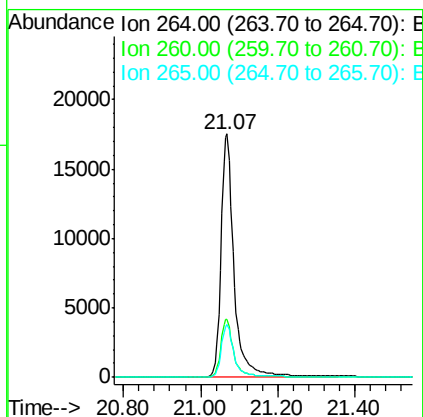
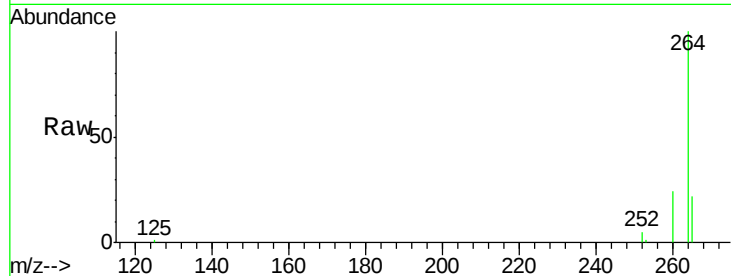




#21
Perylene-d12
 Concen: 5.00 ng
 RT: 21.07 min Scan# 3674
 Delta R.T. 0.00 min
 Lab File: BE089388.D
 Acq: 9 Jan 2015 19:34

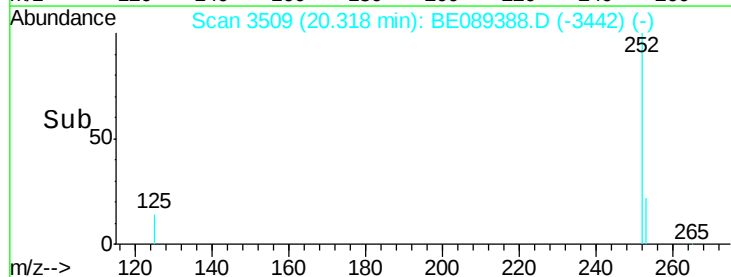
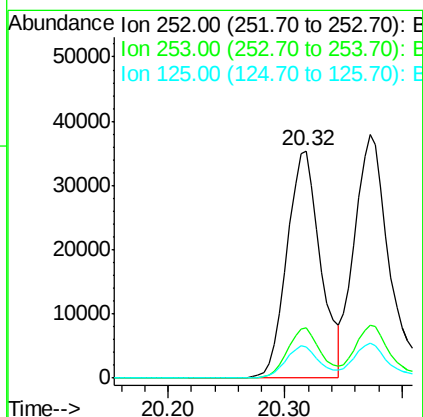
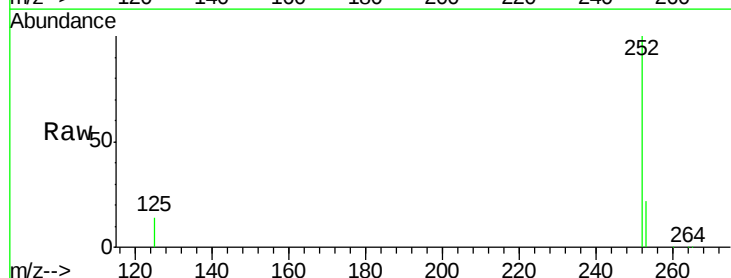
Instrument :
 BNA_E
 ClientSampleId :
 PB81206BS

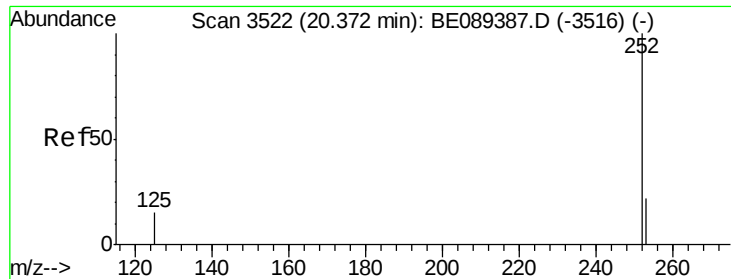
Tgt Ion: 264 Resp: 40383
 Ion Ratio Lower Upper
 264 100
 260 23.6 18.9 28.3
 265 21.6 17.4 26.2



#22
Benzo(b)fluoranthene
 Concen: 7.99 ng
 RT: 20.32 min Scan# 3509
 Delta R.T. 0.01 min
 Lab File: BE089388.D
 Acq: 9 Jan 2015 19:34

Tgt Ion: 252 Resp: 70506
 Ion Ratio Lower Upper
 252 100
 253 21.9 17.8 26.6
 125 14.0 12.6 18.8

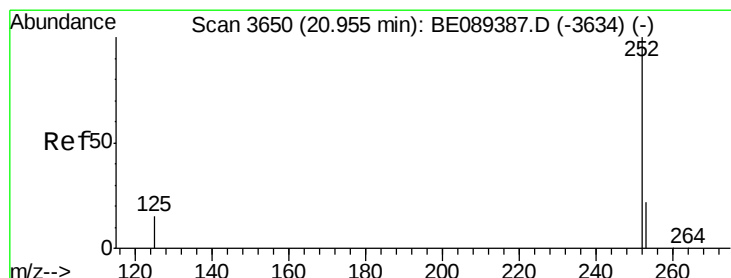
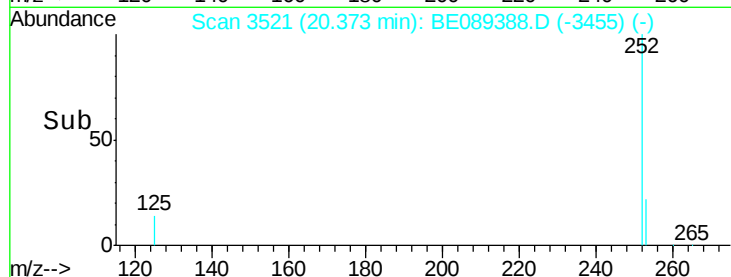
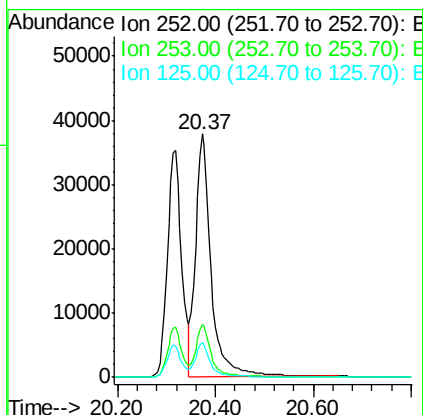
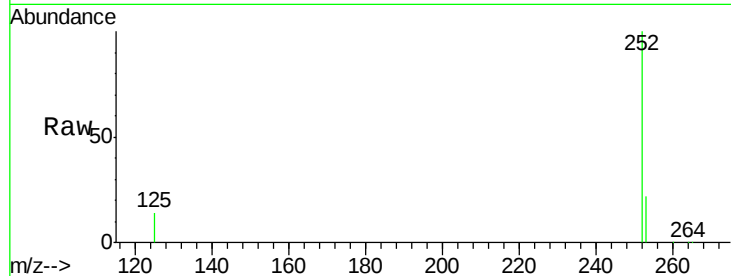




#23
Benzo(k)fluoranthene
Concen: 7.57 ng
RT: 20.37 min Scan# 3521
Delta R.T. 0.00 min
Lab File: BE089388.D
Acq: 9 Jan 2015 19:34

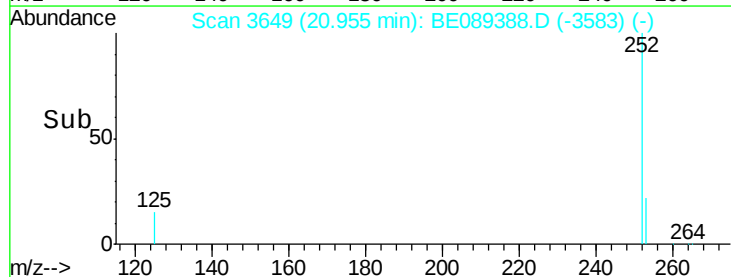
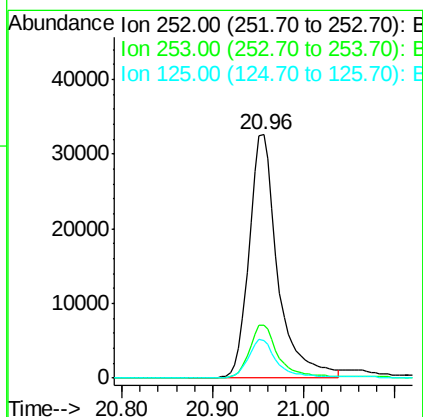
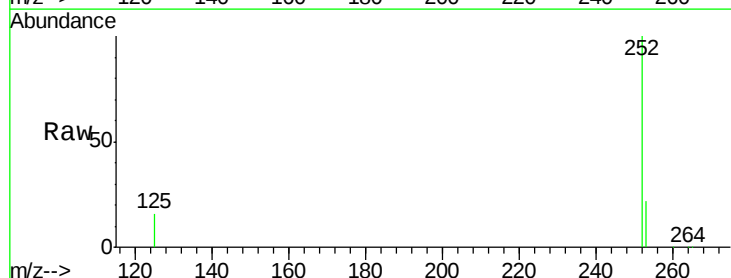
Instrument :
BNA_E
ClientSampleId :
PB81206BS

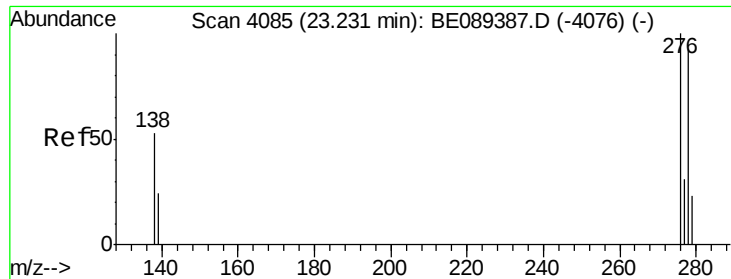
Tgt Ion: 252 Resp: 84162
Ion Ratio Lower Upper
252 100
253 21.6 18.0 27.0
125 14.3 12.4 18.6



#24
Benzo(a)pyrene
Concen: 8.14 ng
RT: 20.96 min Scan# 3649
Delta R.T. 0.00 min
Lab File: BE089388.D
Acq: 9 Jan 2015 19:34

Tgt Ion: 252 Resp: 70859
Ion Ratio Lower Upper
252 100
253 21.9 18.3 27.5
125 15.5 13.8 20.8



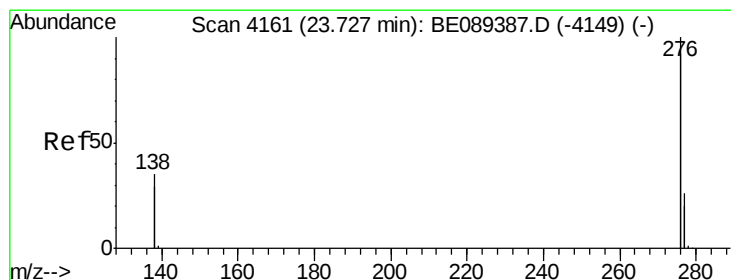
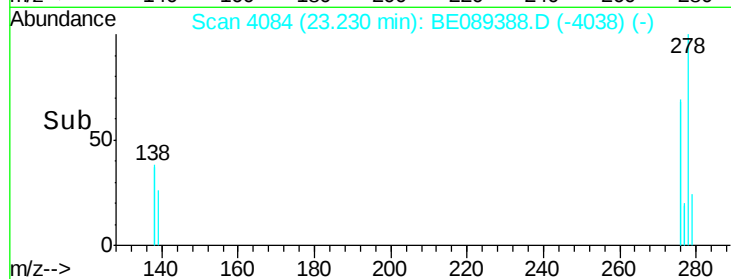
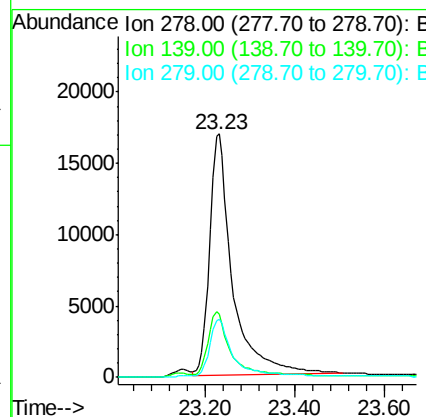
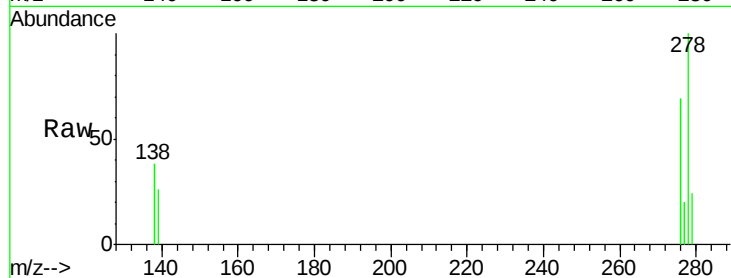


#25
Dibenzo(a,h)anthracene
Concen: 7.49 ng
RT: 23.23 min Scan# 4084
Delta R.T. -0.00 min
Lab File: BE089388.D
Acq: 9 Jan 2015 19:34

Instrument :
BNA_E
ClientSampleId :
PB81206BS

Tgt Ion: 278 Resp: 59738

Ion	Ratio	Lower	Upper
278	100		
139	26.0	22.9	34.3
279	23.9	20.8	31.2



#26
Benzo(g,h,i)perylene
Concen: 6.96 ng
RT: 23.72 min Scan# 4159
Delta R.T. -0.01 min
Lab File: BE089388.D
Acq: 9 Jan 2015 19:34

Tgt Ion: 276 Resp: 279643

Ion	Ratio	Lower	Upper
276	100		
277	23.7	20.0	30.0
138	34.1	28.5	42.7

