

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE013015\  
 Data File : BE089450.D  
 Acq On : 30 Jan 2015 22:36  
 Operator : TP/IZ  
 Sample : PB81559BL  
 Misc : 4 TIME INT STD  
 ALS Vial : 17 Sample Multiplier: 4

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB81559BL

Quant Time: Feb 02 01:14:17 2015  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SIMPAH-BE013015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Jan 31 05:05:18 2015  
 Response via : Initial Calibration

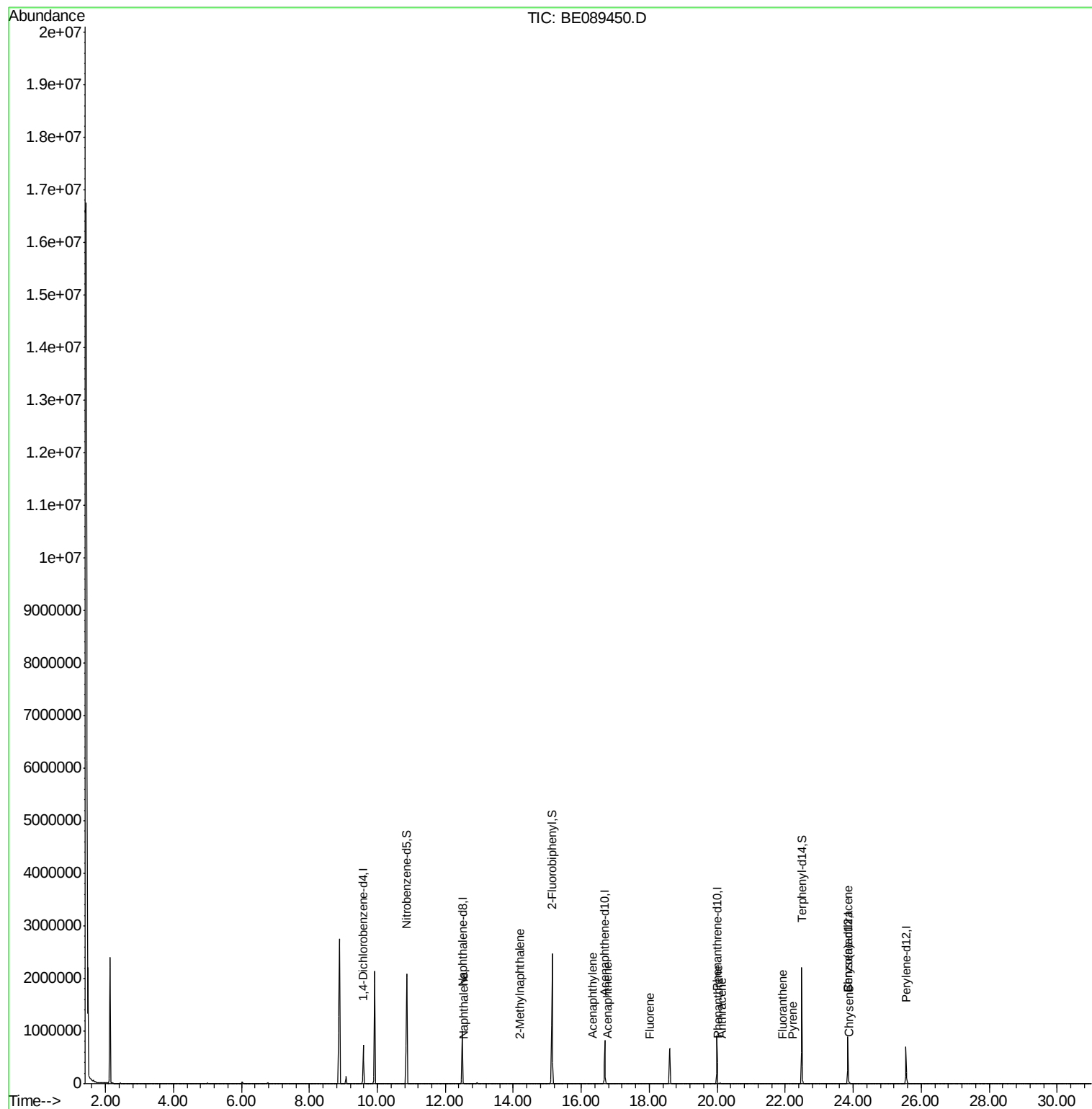
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 9.59  | 152  | 308948   | 5.00  | ng    | 0.00     |
| 2) Naphthalene-d8           | 12.50 | 136  | 1189383  | 5.00  | ng    | 0.00     |
| 6) Acenaphthene-d10         | 16.69 | 164  | 526684   | 5.00  | ng    | -0.01    |
| 11) Phenanthrene-d10        | 19.99 | 188  | 900937   | 5.00  | ng    | 0.00     |
| 16) Chrysene-d12            | 23.84 | 240  | 702590   | 5.00  | ng    | 0.00     |
| 22) Perylene-d12            | 25.56 | 264  | 653953   | 5.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 3) Nitrobenzene-d5          | 10.87 | 82   | 1853741  | 94.15 | ng    | 0.01     |
| 7) 2-Fluorobiphenyl         | 15.14 | 172  | 2562901  | 73.88 | ng    | 0.00     |
| 18) Terphenyl-d14           | 22.49 | 244  | 2075081  | 78.90 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 4) Naphthalene              | 12.55 | 128  | 1156     | 0.02  | ng    | # 83     |
| 5) 2-Methylnaphthalene      | 14.20 | 142  | 890m     | 0.02  | ng    |          |
| 8) Acenaphthylene           | 16.34 | 152  | 5952     | 0.03  | ng    | 98       |
| 9) Acenaphthene             | 16.76 | 154  | 1005     | 0.03  | ng    | # 78     |
| 10) Fluorene                | 18.02 | 166  | 1057     | 0.03  | ng    | 98       |
| 13) Phenanthrene            | 20.03 | 178  | 7066     | 0.03  | ng    | 95       |
| 14) Anthracene              | 20.12 | 178  | 5809m    | 0.03  | ng    |          |
| 15) Fluoranthene            | 21.91 | 202  | 1232     | 0.03  | ng    | 94       |
| 17) Pyrene                  | 22.23 | 202  | 1303m    | 0.03  | ng    |          |
| 19) Benzo(a)anthracene      | 23.84 | 228  | 11283    | 0.08  | ng    | # 83     |
| 20) Chrysene                | 23.87 | 228  | 5545     | 0.03  | ng    | # 93     |

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.59 min Scan# 1795

Delta R.T. -0.00 min

Lab File: BE089450.D

Acq: 30 Jan 2015 22:36

Instrument :

BNA\_E

ClientSampleId :

PB81559BL

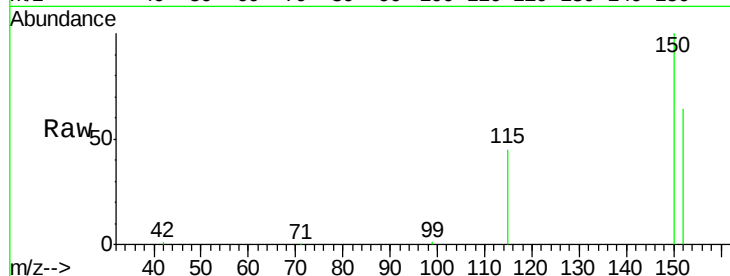
Tgt Ion:152 Resp: 308948

Ion Ratio Lower Upper

152 100

150 157.4 127.2 190.8

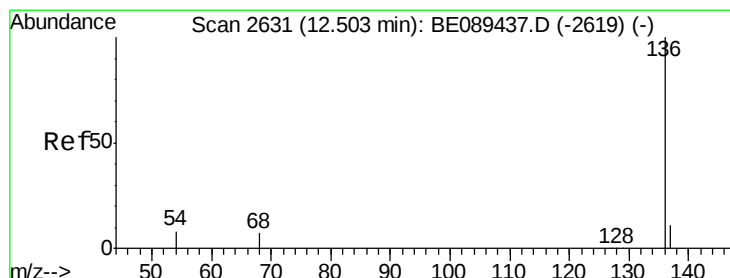
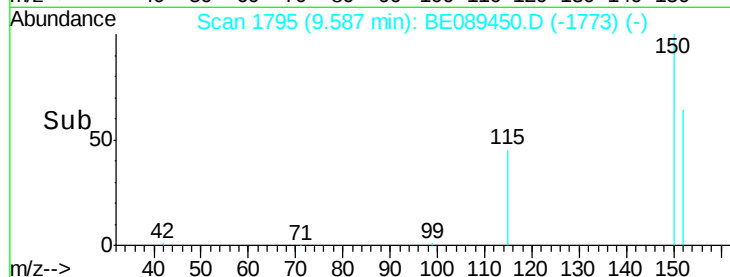
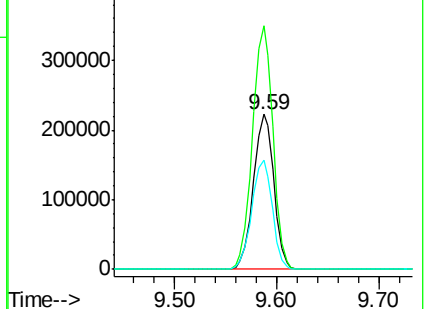
115 70.7 57.5 86.3



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: 12.50 min Scan# 2630

Delta R.T. -0.00 min

Lab File: BE089450.D

Acq: 30 Jan 2015 22:36

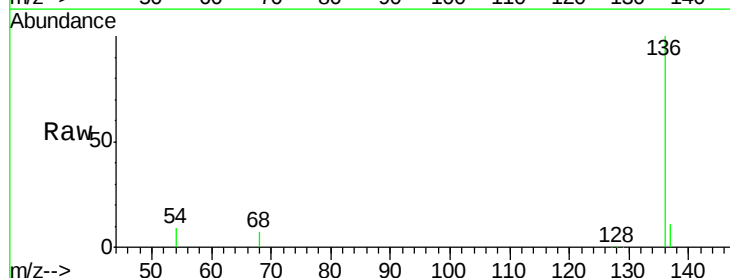
Tgt Ion:136 Resp: 1189383

Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

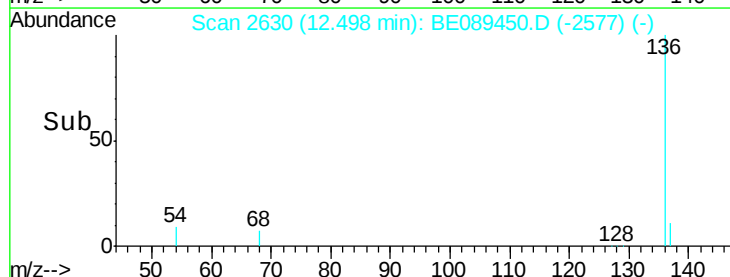
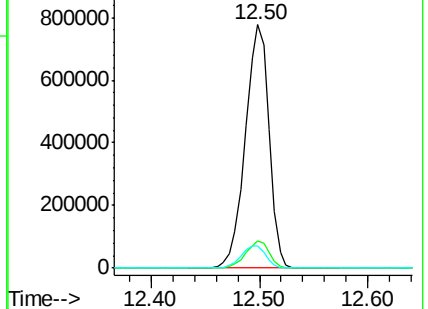
54 9.2 6.6 10.0

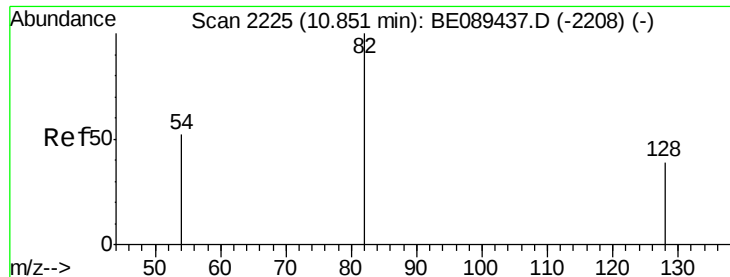


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#3

Nitrobenzene-d5

Concen: 94.15 ng

RT: 10.87 min Scan# 2231

Delta R.T. 0.01 min

Lab File: BE089450.D

Acq: 30 Jan 2015 22:36

Instrument :

BNA\_E

ClientSampleId :

PB81559BL

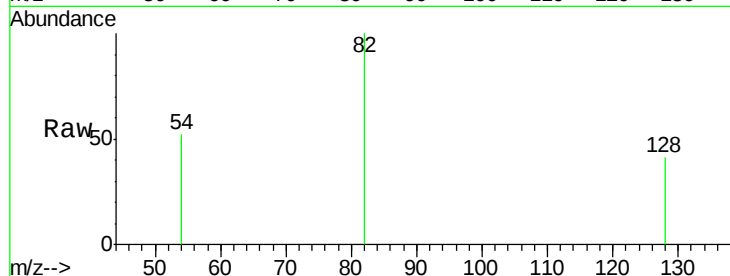
Tgt Ion: 82 Resp: 1853741

Ion Ratio Lower Upper

82 100

128 41.1 31.2 46.8

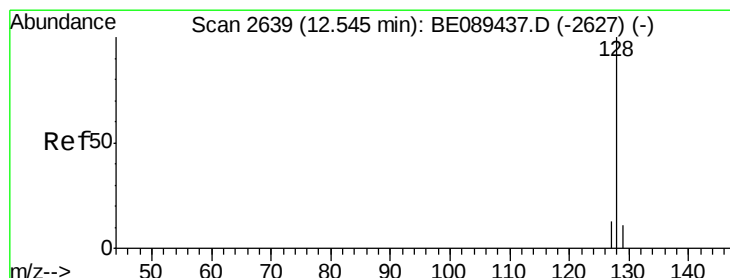
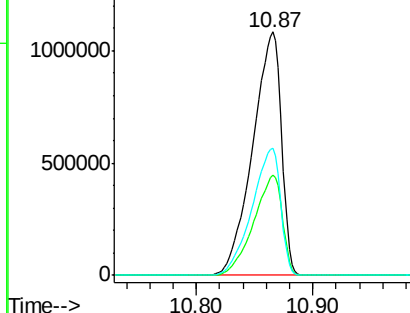
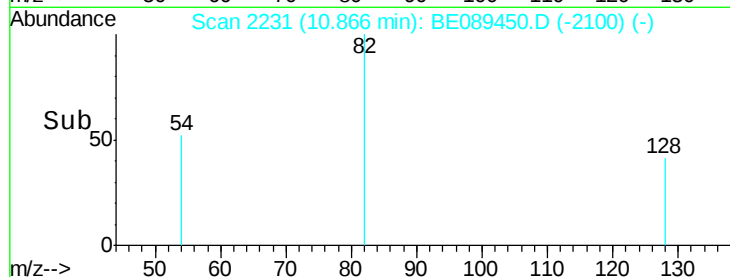
54 52.1 41.9 62.9



Abundance Ion 82.00 (81.70 to 82.70): BE089450.D (-2100) (-)

Ion 128.00 (127.70 to 128.70): BE089450.D (-2100) (-)

Ion 54.00 (53.70 to 54.70): BE089450.D (-2100) (-)



#4

Naphthalene

Concen: 0.02 ng

RT: 12.55 min Scan# 2639

Delta R.T. 0.00 min

Lab File: BE089450.D

Acq: 30 Jan 2015 22:36

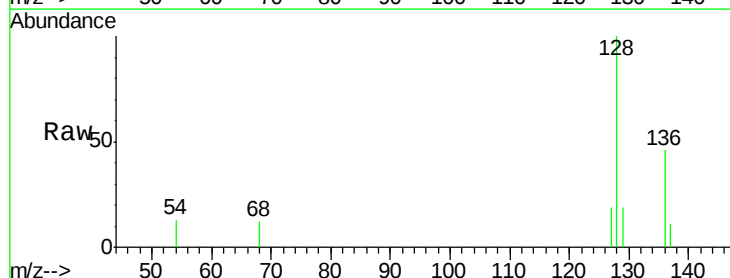
Tgt Ion: 128 Resp: 1156

Ion Ratio Lower Upper

128 100

129 19.3 8.8 13.2#

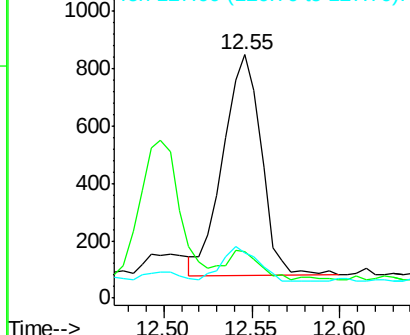
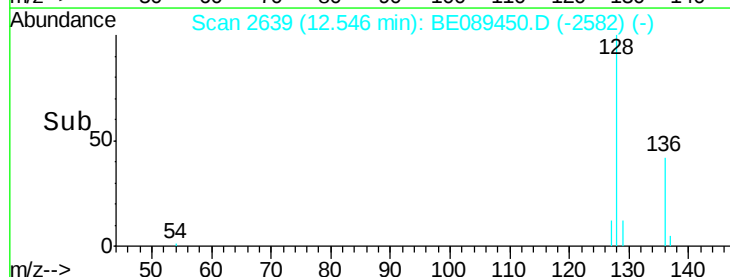
127 18.5 10.6 16.0#



Abundance Ion 128.00 (127.70 to 128.70): BE089450.D (-2582) (-)

Ion 129.00 (128.70 to 129.70): BE089450.D (-2582) (-)

Ion 127.00 (126.70 to 127.70): BE089450.D (-2582) (-)





#5

2-Methylnaphthalene

Concen: 0.02 ng m

RT: 14.20 min Scan# 2976

Delta R.T. -0.01 min

Lab File: BE089450.D

Acq: 30 Jan 2015 22:36

Instrument :

BNA\_E

ClientSampleId :

PB81559BL

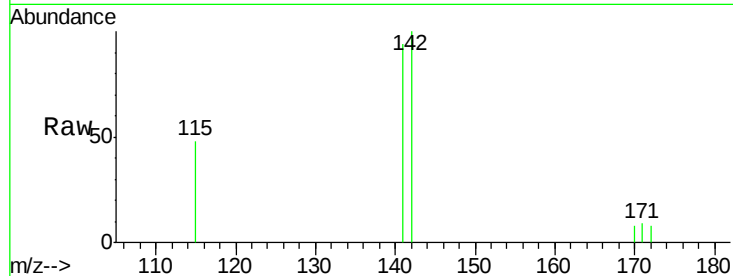
Tgt Ion:142 Resp: 890

Ion Ratio Lower Upper

142 100

141 93.7 66.1 99.1

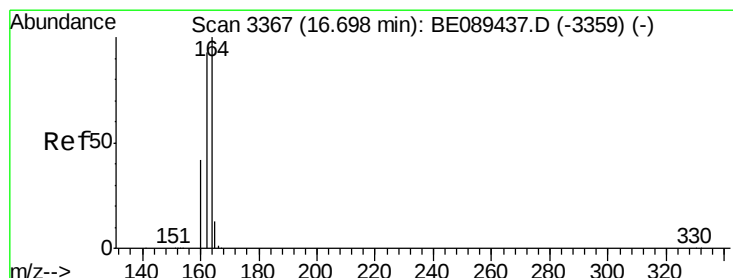
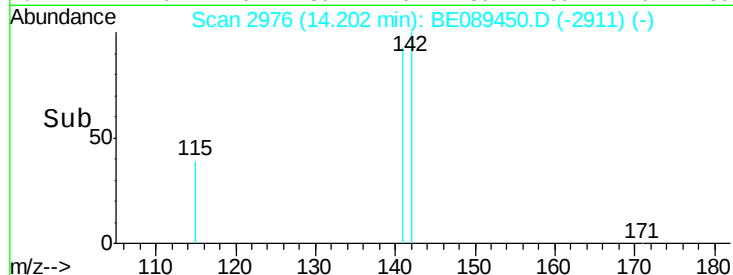
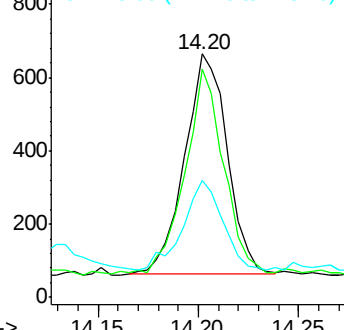
115 48.1 29.9 44.9#



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: 16.69 min Scan# 3366

Delta R.T. -0.01 min

Lab File: BE089450.D

Acq: 30 Jan 2015 22:36

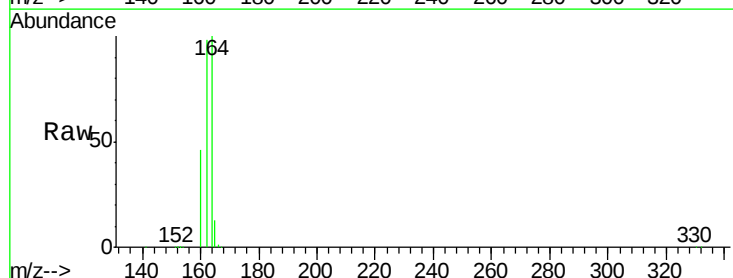
Tgt Ion:164 Resp: 526684

Ion Ratio Lower Upper

164 100

162 97.8 74.7 112.1

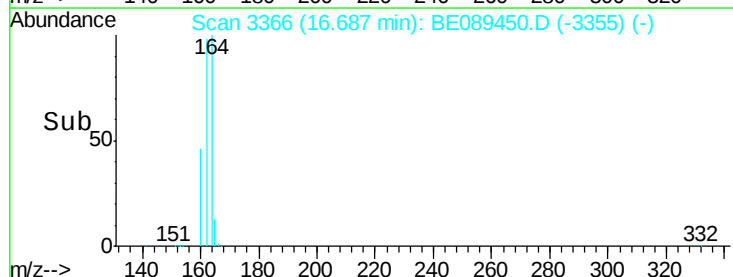
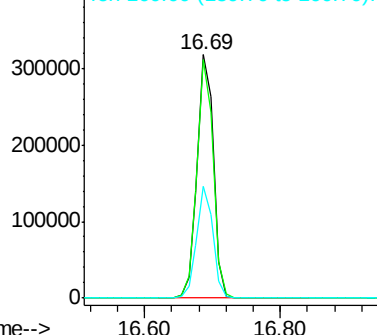
160 45.7 33.4 50.0



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: 73.88 ng

RT: 15.14 min Scan# 3183

Delta R.T. 0.01 min

Lab File: BE089450.D

Acq: 30 Jan 2015 22:36

Instrument :

BNA\_E

ClientSampleId :

PB81559BL

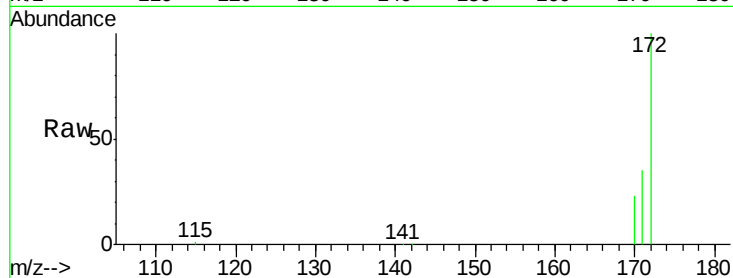
Tgt Ion:172 Resp: 2562901

Ion Ratio Lower Upper

172 100

171 35.1 26.2 39.4

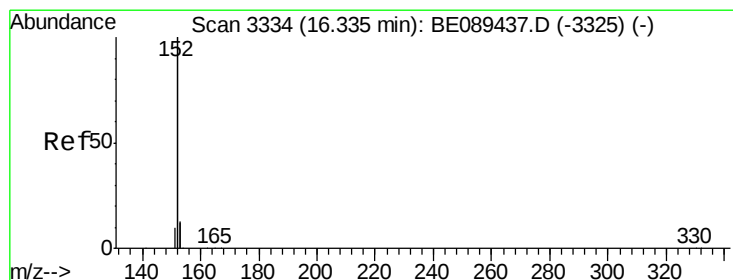
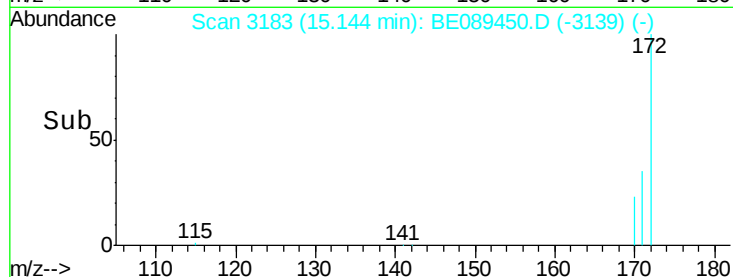
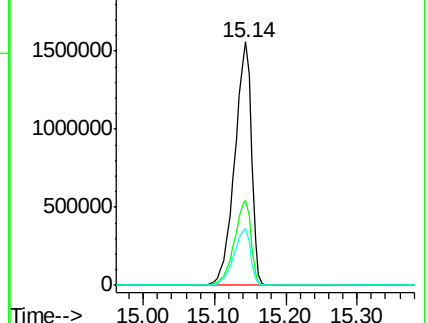
170 23.1 16.5 24.7



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#8

Acenaphthylene

Concen: 0.03 ng

RT: 16.34 min Scan# 3334

Delta R.T. 0.00 min

Lab File: BE089450.D

Acq: 30 Jan 2015 22:36

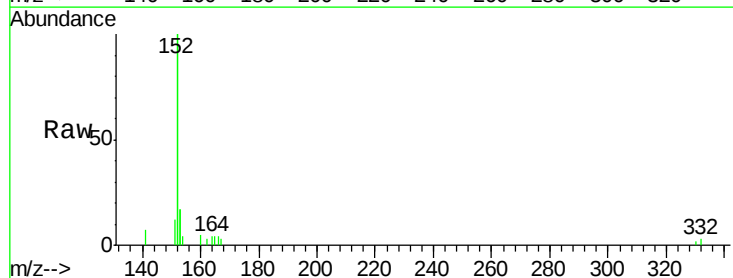
Tgt Ion:152 Resp: 5952

Ion Ratio Lower Upper

152 100

151 5.2 3.9 5.9

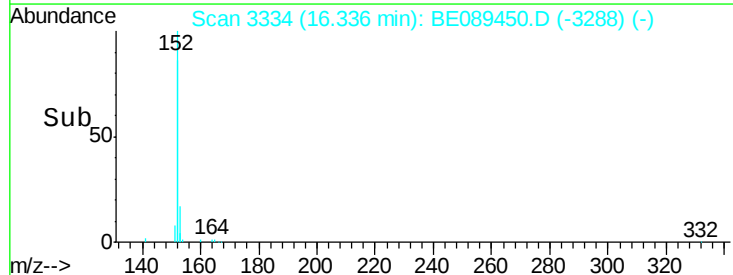
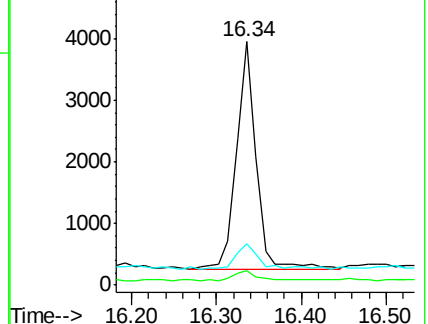
153 12.1 10.3 15.5



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: 0.03 ng

RT: 16.76 min Scan# 3373

Delta R.T. 0.00 min

Lab File: BE089450.D

Acq: 30 Jan 2015 22:36

Instrument :

BNA\_E

ClientSampleId :

PB81559BL

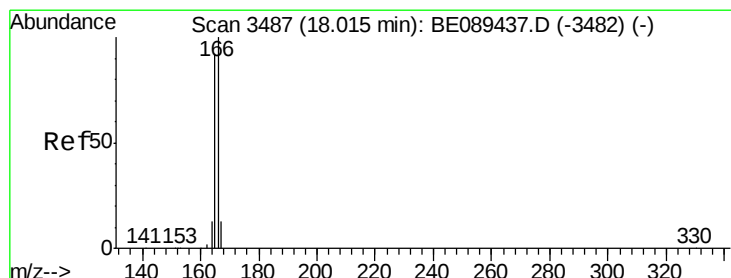
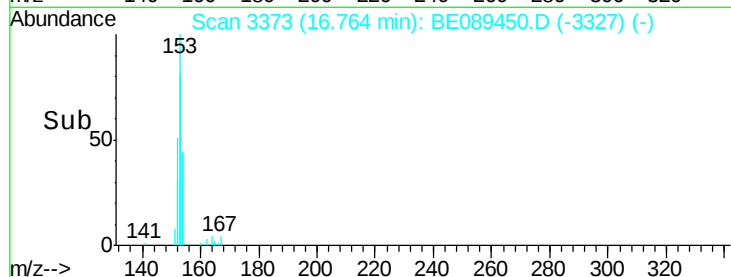
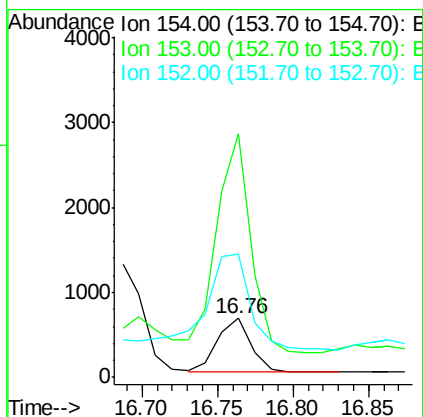
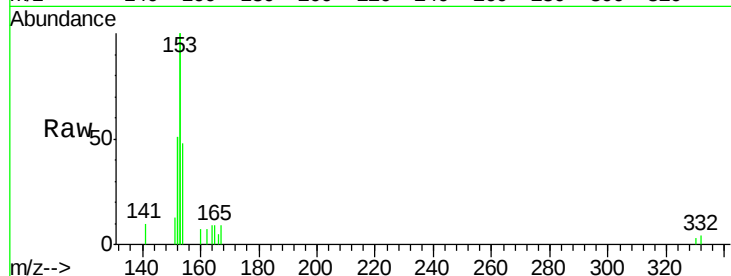
Tgt Ion:154 Resp: 1005

Ion Ratio Lower Upper

154 100

153 408.6 342.3 513.5

152 286.4 165.5 248.3#



#10

Fluorene

Concen: 0.03 ng

RT: 18.02 min Scan# 3487

Delta R.T. 0.00 min

Lab File: BE089450.D

Acq: 30 Jan 2015 22:36

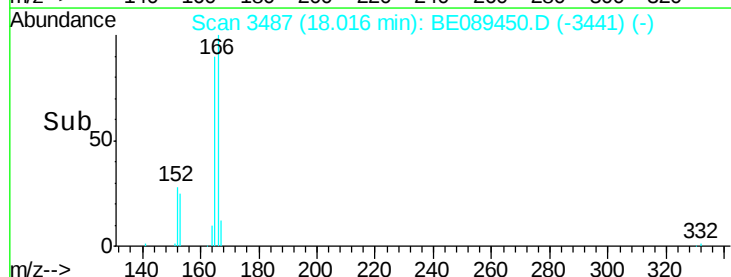
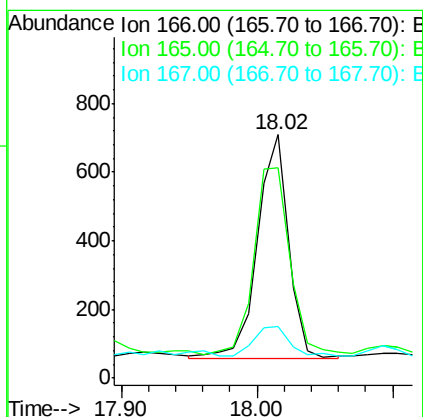
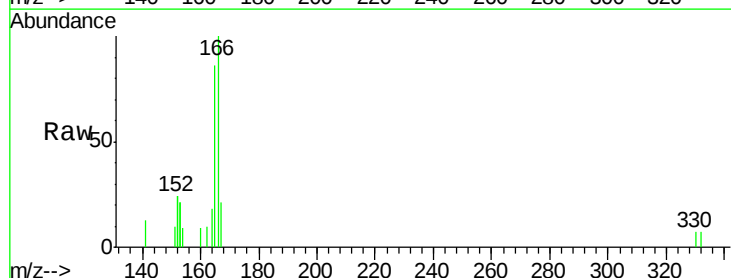
Tgt Ion:166 Resp: 1057

Ion Ratio Lower Upper

166 100

165 94.1 74.4 111.6

167 15.0 10.6 15.8

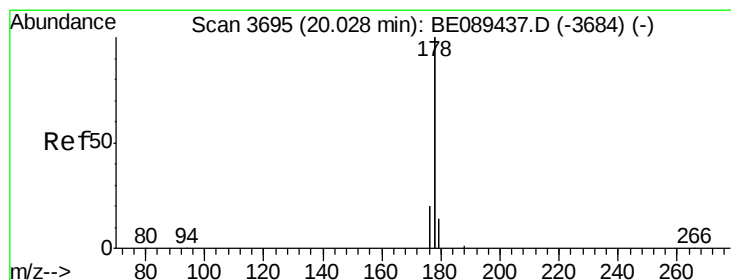
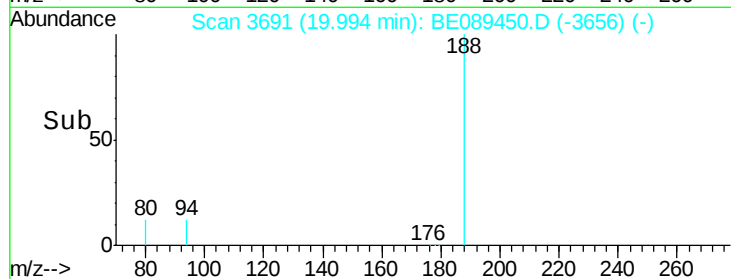
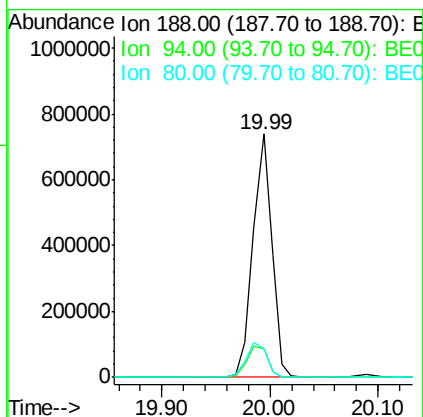
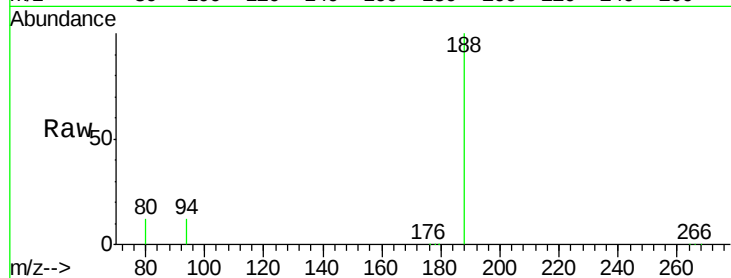




#11  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 19.99 min Scan# 3691  
Delta R.T. 0.00 min  
Lab File: BE089450.D  
Acq: 30 Jan 2015 22:36

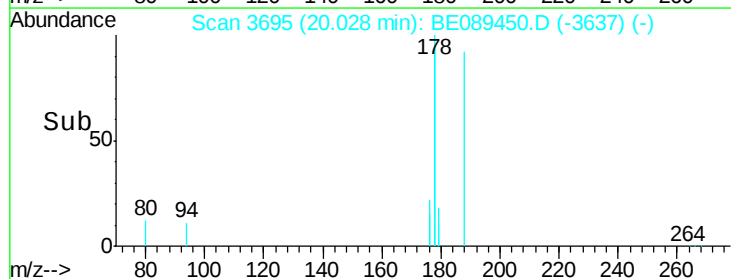
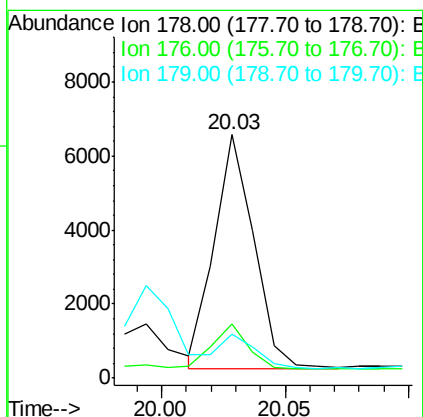
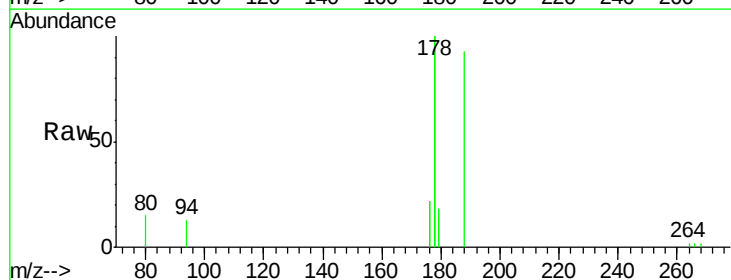
Instrument :  
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PB81559BL

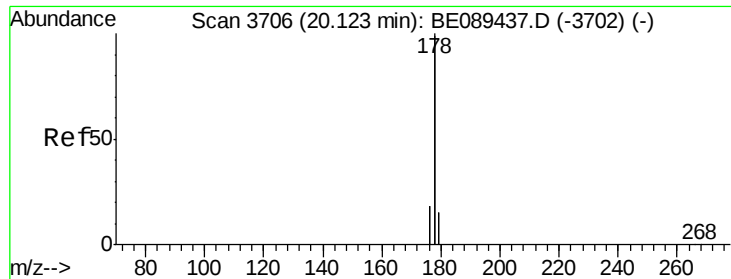
Tgt Ion:188 Resp: 900937  
Ion Ratio Lower Upper  
188 100  
94 11.8 9.4 14.0  
80 11.9 9.3 13.9



#13  
Phenanthrene  
Concen: 0.03 ng  
RT: 20.03 min Scan# 3695  
Delta R.T. 0.00 min  
Lab File: BE089450.D  
Acq: 30 Jan 2015 22:36

Tgt Ion:178 Resp: 7066  
Ion Ratio Lower Upper  
178 100  
176 20.3 15.1 22.7  
179 12.7 12.3 18.5





#14

Anthracene

Concen: 0.03 ng m

RT: 20.12 min Scan# 3706

Delta R.T. 0.00 min

Lab File: BE089450.D

Acq: 30 Jan 2015 22:36

Instrument :

BNA\_E

ClientSampleId :

PB81559BL

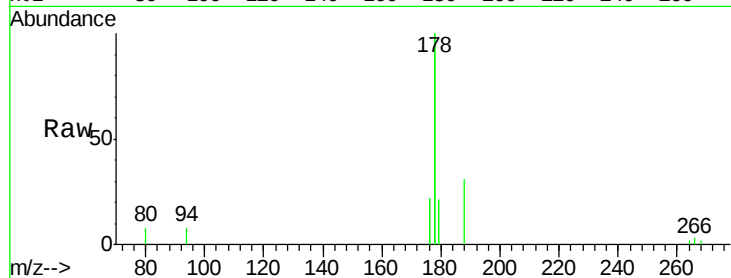
Tgt Ion:178 Resp: 5809

Ion Ratio Lower Upper

178 100

176 24.7 14.6 22.0#

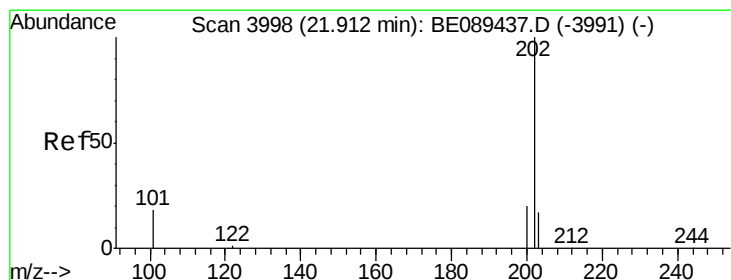
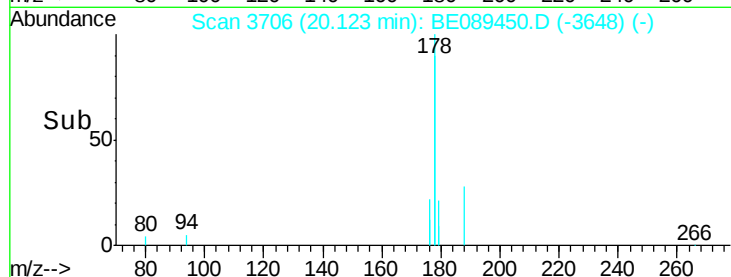
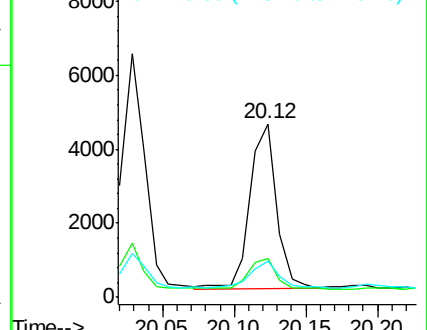
179 15.5 12.2 18.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#15

Fluoranthene

Concen: 0.03 ng

RT: 21.91 min Scan# 3998

Delta R.T. 0.00 min

Lab File: BE089450.D

Acq: 30 Jan 2015 22:36

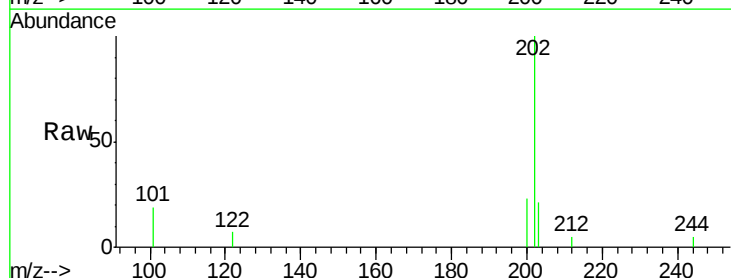
Tgt Ion:202 Resp: 1232

Ion Ratio Lower Upper

202 100

101 19.6 13.6 20.4

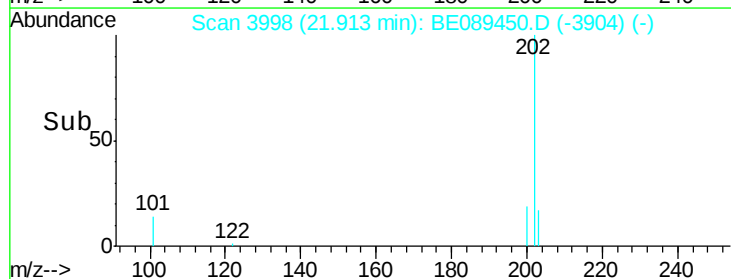
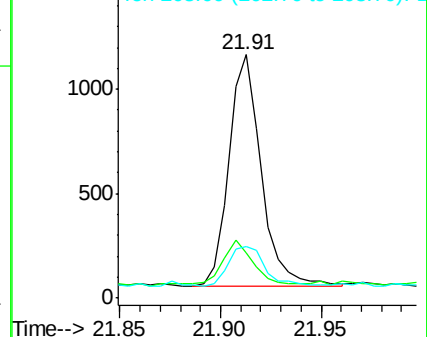
203 19.9 13.8 20.6

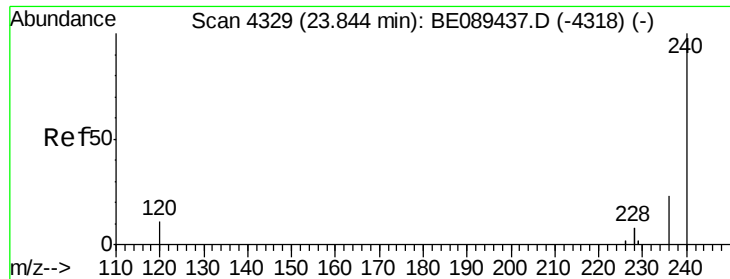


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#16

Chrysene-d12

Concen: 5.00 ng

RT: 23.84 min Scan# 4329

Delta R.T. 0.00 min

Lab File: BE089450.D

Acq: 30 Jan 2015 22:36

Instrument :

BNA\_E

ClientSampleId :

PB81559BL

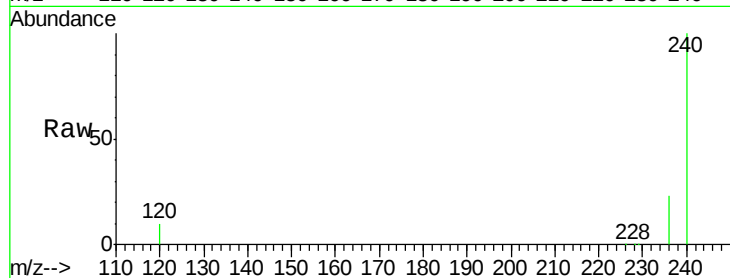
Tgt Ion:240 Resp: 702590

Ion Ratio Lower Upper

240 100

120 9.7 8.6 13.0

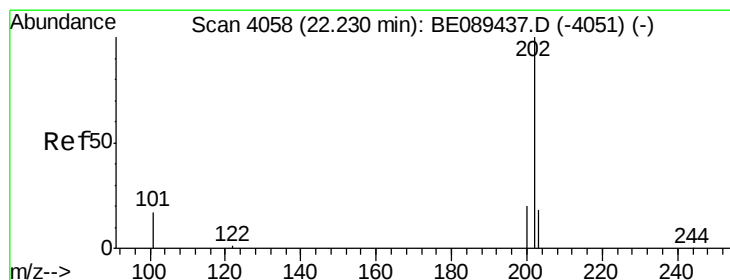
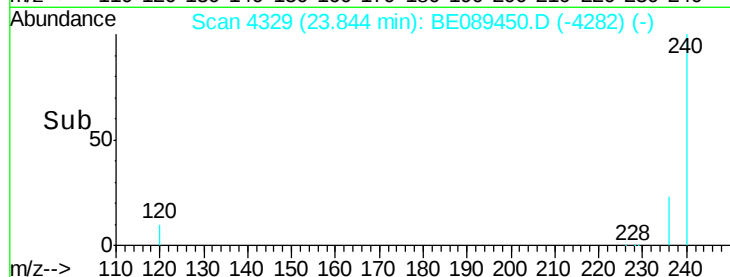
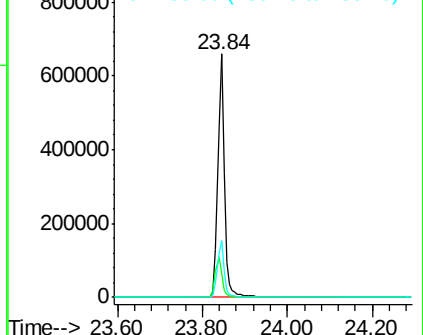
236 23.5 18.7 28.1



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



#17

Pyrene

Concen: 0.03 ng m

RT: 22.23 min Scan# 4057

Delta R.T. -0.00 min

Lab File: BE089450.D

Acq: 30 Jan 2015 22:36

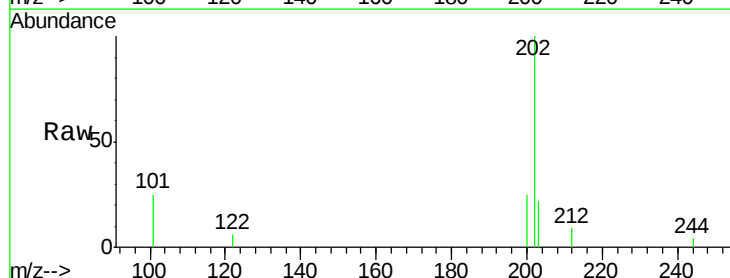
Tgt Ion:202 Resp: 1303

Ion Ratio Lower Upper

202 100

200 20.5 16.2 24.4

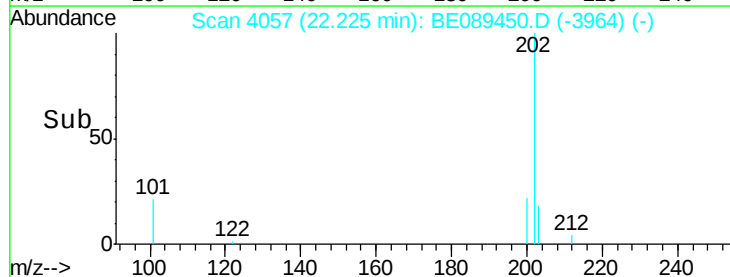
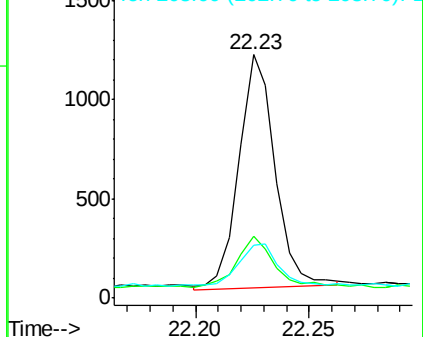
203 18.8 13.8 20.8

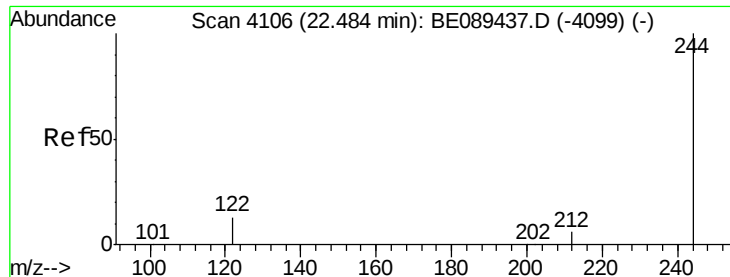


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#18

Terphenyl-d14

Concen: 78.90 ng

RT: 22.49 min Scan# 4107

Delta R.T. 0.01 min

Lab File: BE089450.D

Acq: 30 Jan 2015 22:36

Instrument :

BNA\_E

ClientSampleId :

PB81559BL

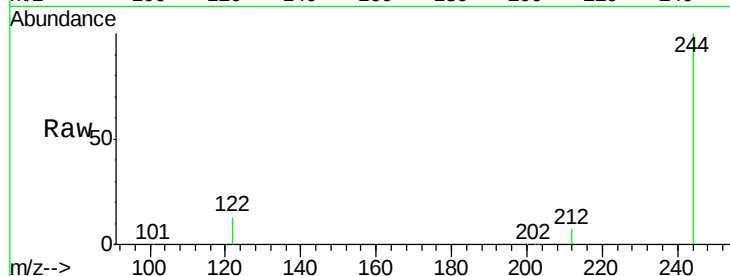
Tgt Ion:244 Resp: 2075081

Ion Ratio Lower Upper

244 100

212 6.9 5.0 7.6

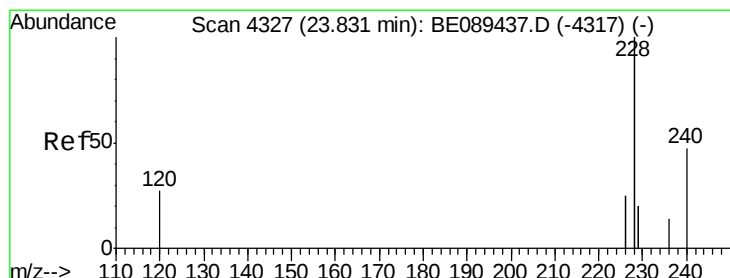
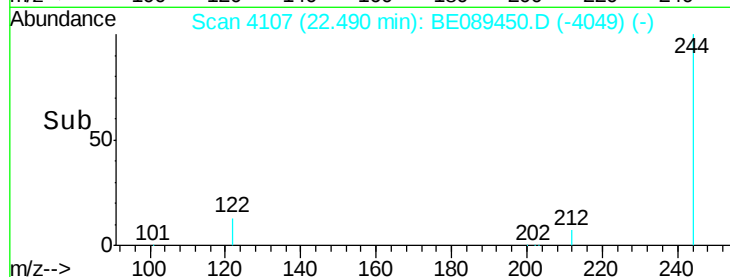
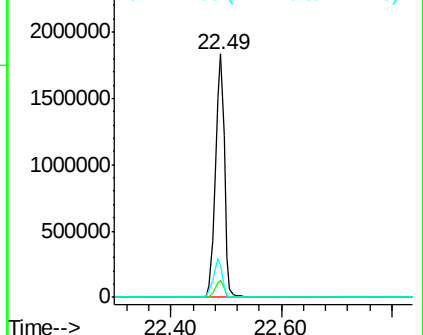
122 13.3 10.2 15.4



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



#19

Benzo(a)anthracene

Concen: 0.08 ng

RT: 23.84 min Scan# 4328

Delta R.T. 0.01 min

Lab File: BE089450.D

Acq: 30 Jan 2015 22:36

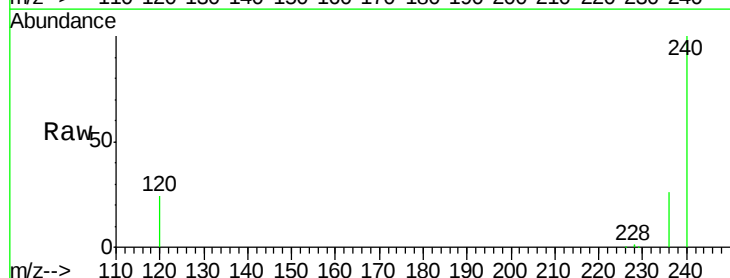
Tgt Ion:228 Resp: 11283

Ion Ratio Lower Upper

228 100

226 16.4 20.0 30.0#

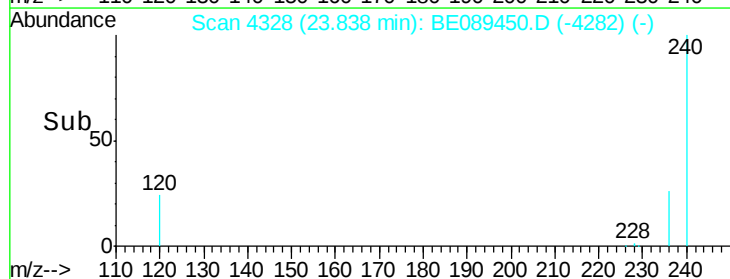
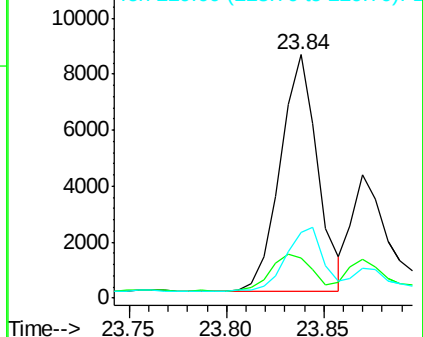
229 27.2 16.0 24.0#

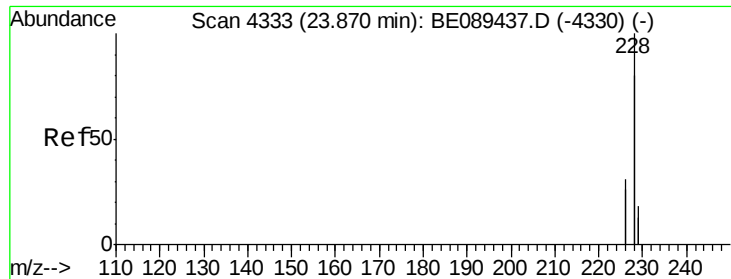


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#20

Chrysene

Concen: 0.03 ng

RT: 23.87 min Scan# 4333

Delta R.T. 0.00 min

Lab File: BE089450.D

Acq: 30 Jan 2015 22:36

Instrument :

BNA\_E

ClientSampleId :

PB81559BL

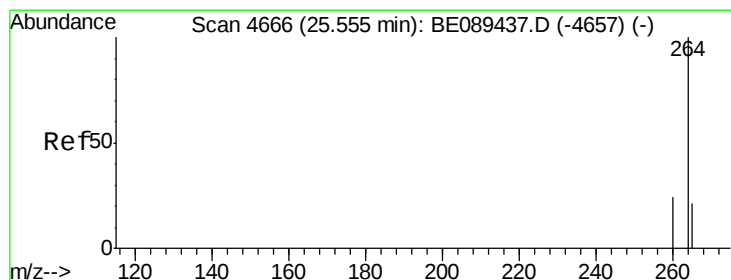
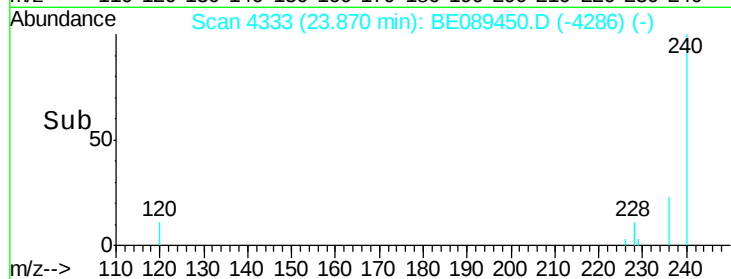
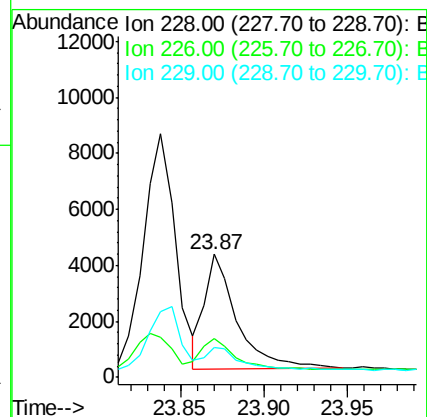
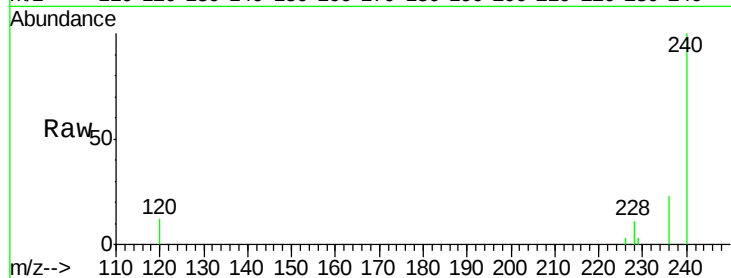
Tgt Ion:228 Resp: 5545

Ion Ratio Lower Upper

228 100

226 31.7 24.5 36.7

229 24.1 14.1 21.1#



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.56 min Scan# 4666

Delta R.T. 0.00 min

Lab File: BE089450.D

Acq: 30 Jan 2015 22:36

Tgt Ion:264 Resp: 653953

Ion Ratio Lower Upper

264 100

260 23.9 19.4 29.0

265 21.3 17.0 25.6

