

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE032515\  
 Data File : BE089853.D  
 Acq On : 26 Mar 2015 1:31  
 Operator : TP/JJ  
 Sample : G1589-02  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 MW-2

Quant Time: Mar 26 07:10:31 2015  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SIMPAH-BE032415.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 25 16:20:31 2015  
 Response via : Initial Calibration

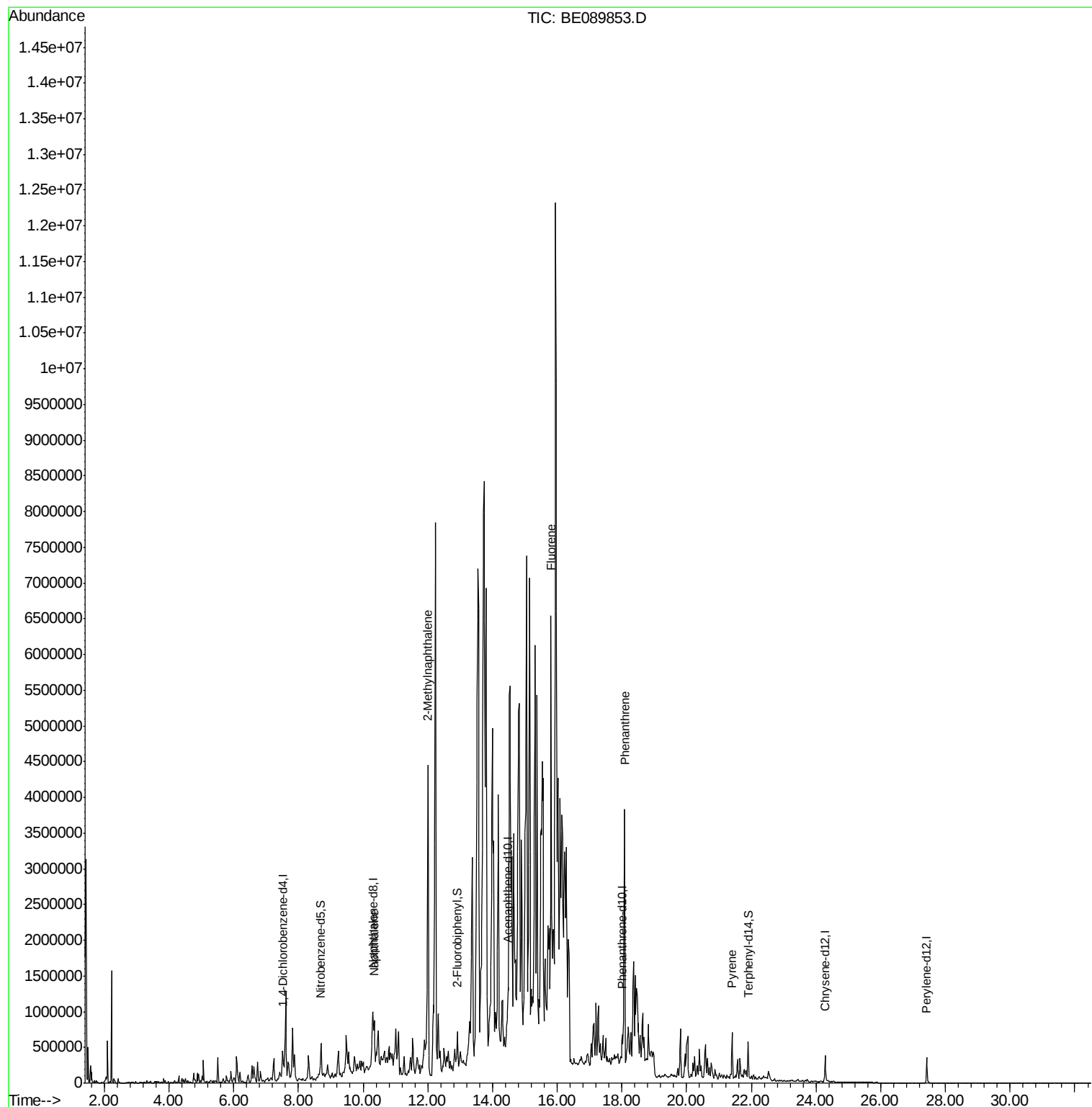
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.52  | 152  | 185782   | 5.00  | ng    | 0.02     |
| 4) Naphthalene-d8           | 10.30 | 136  | 737587   | 5.00  | ng    | 0.04     |
| 8) Acenaphthene-d10         | 14.48 | 164  | 289034   | 5.00  | ng    | 0.10     |
| 13) Phenanthrene-d10        | 18.01 | 188  | 480608   | 5.00  | ng    | 0.09     |
| 19) Chrysene-d12            | 24.28 | 240  | 474055   | 5.00  | ng    | 0.02     |
| 25) Perylene-d12            | 27.42 | 264  | 450042   | 5.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) Nitrobenzene-d5          | 8.70  | 82   | 465743   | 8.65  | ng    | 0.02     |
| 9) 2-Fluorobiphenyl         | 12.91 | 172  | 590512   | 8.73  | ng    | 0.06     |
| 21) Terphenyl-d14           | 21.90 | 244  | 619608   | 8.86  | ng    | 0.04     |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 6) Naphthalene              | 10.34 | 128  | 736139m  | 5.05  | ng    |          |
| 7) 2-Methylnaphthalene      | 12.01 | 142  | 4321476  | 53.35 | ng    | # 88     |
| 12) Fluorene                | 15.81 | 166  | 2411832  | 31.41 | ng    | # 80     |
| 16) Phenanthrene            | 18.08 | 178  | 5222009  | 49.43 | ng    | # 94     |
| 20) Pyrene                  | 21.40 | 202  | 621511m  | 5.17  | ng    |          |

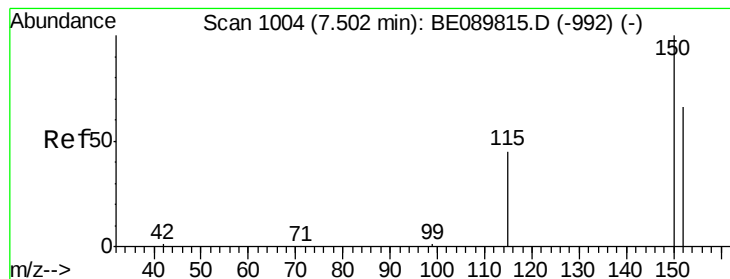
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.52 min Scan# 1007

Delta R.T. 0.02 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

Instrument :

BNA\_E

ClientSampleId :

MW-2

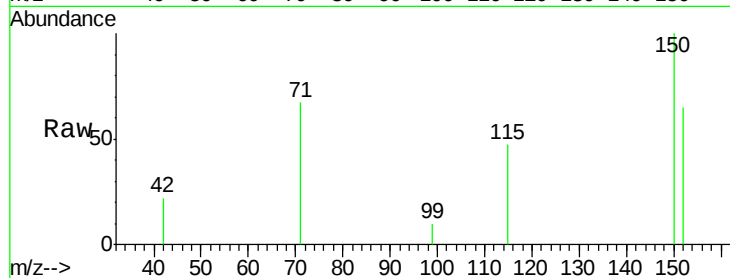
Tgt Ion:152 Resp: 185782

Ion Ratio Lower Upper

152 100

150 154.6 125.5 188.3

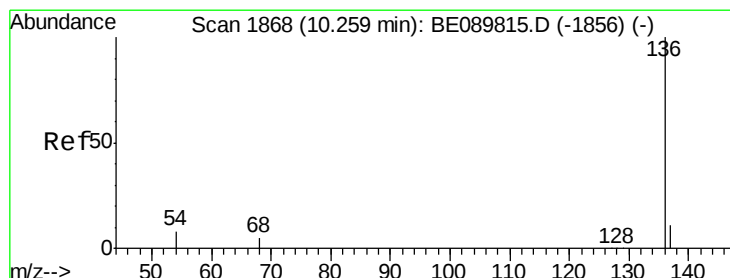
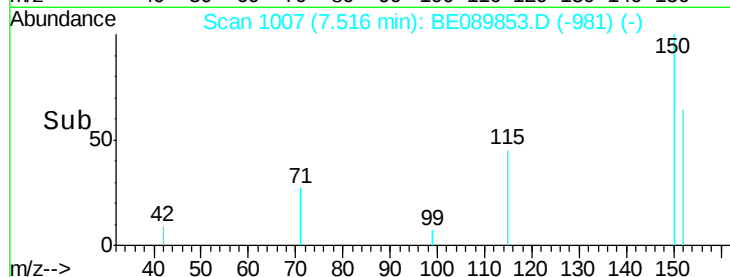
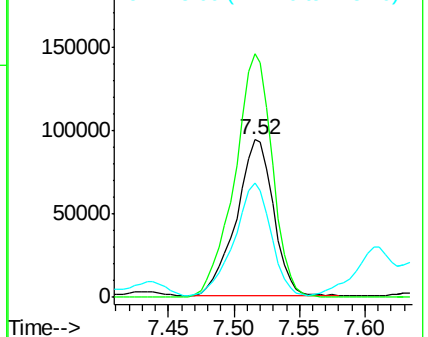
115 72.2 58.0 87.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 10.30 min Scan# 1876

Delta R.T. 0.04 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

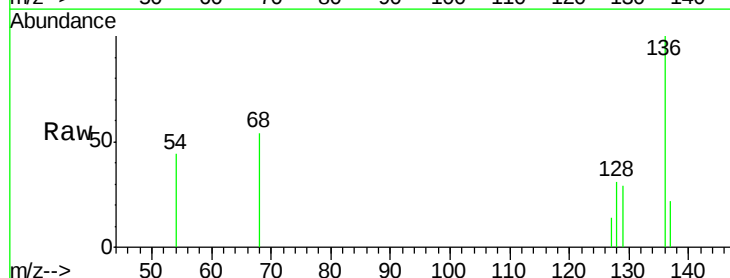
Tgt Ion:136 Resp: 737587

Ion Ratio Lower Upper

136 100

137 22.0 8.8 13.2#

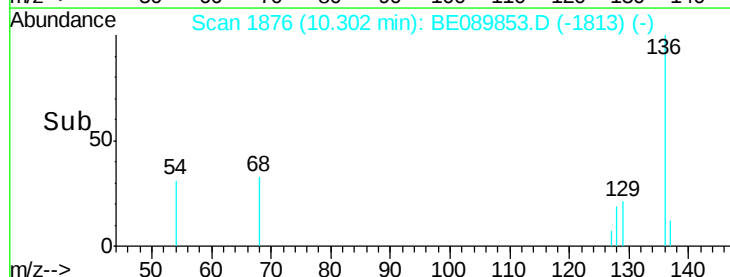
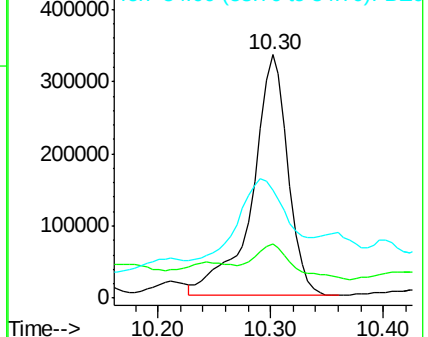
54 44.2 7.0 10.4#

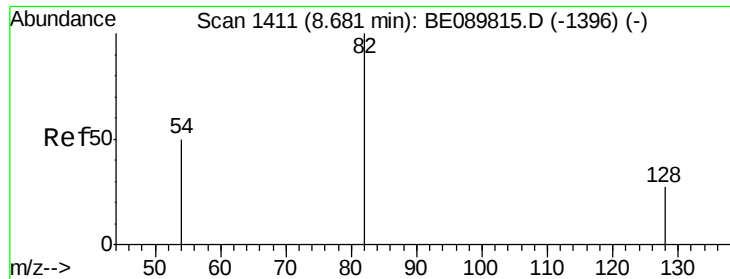


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 8.65 ng

RT: 8.70 min Scan# 1420

Delta R.T. 0.02 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

Instrument :

BNA\_E

ClientSampleId :

MW-2

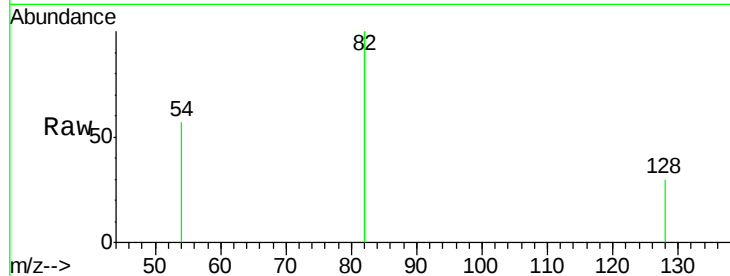
Tgt Ion: 82 Resp: 465743

Ion Ratio Lower Upper

82 100

128 29.7 24.6 37.0

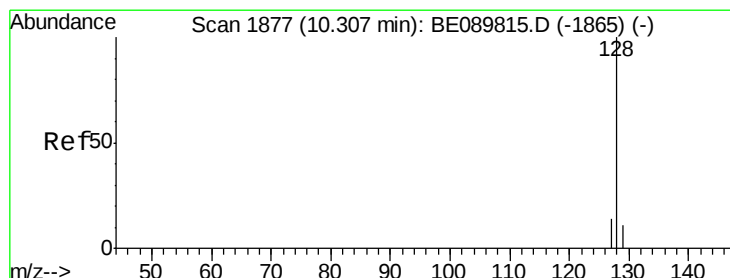
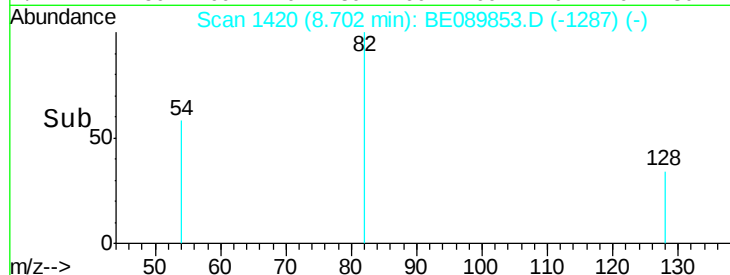
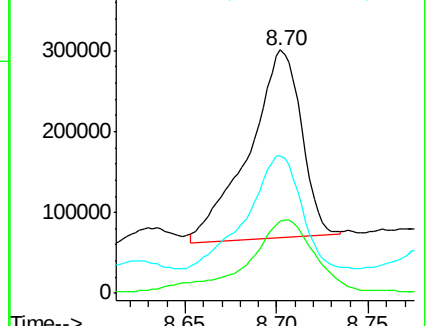
54 56.6 43.0 64.6



Abundance Ion 82.00 (81.70 to 82.70): BE089815.D (-1396) (-)

Ion 128.00 (127.70 to 128.70): BE089815.D (-1396) (-)

Ion 54.00 (53.70 to 54.70): BE089815.D (-1396) (-)



#6

Naphthalene

Concen: 5.05 ng m

RT: 10.34 min Scan# 1884

Delta R.T. 0.04 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

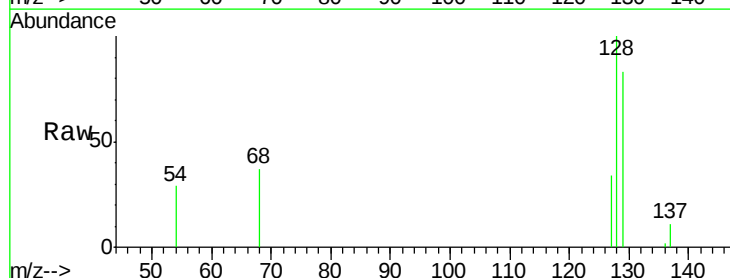
Tgt Ion: 128 Resp: 736139

Ion Ratio Lower Upper

128 100

129 82.7 10.0 15.0#

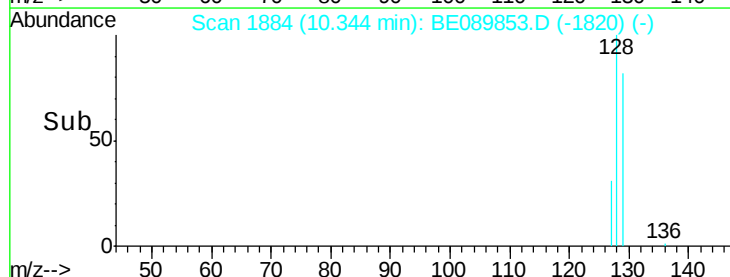
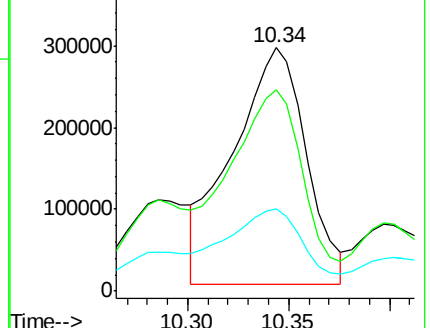
127 34.1 12.5 18.7#

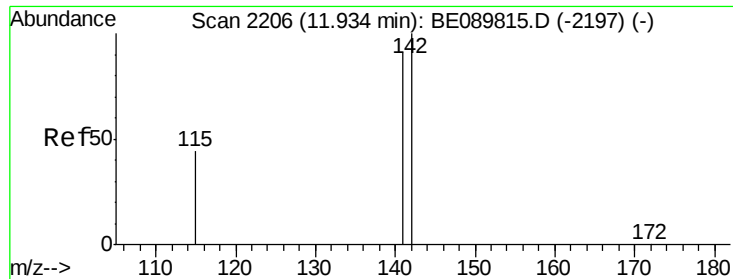


Abundance Ion 128.00 (127.70 to 128.70): BE089815.D (-1865) (-)

Ion 129.00 (128.70 to 129.70): BE089815.D (-1865) (-)

Ion 127.00 (126.70 to 127.70): BE089815.D (-1865) (-)





#7

2-Methylnaphthalene

Concen: 53.35 ng

RT: 12.01 min Scan# 2222

Delta R.T. 0.07 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

Instrument :

BNA\_E

ClientSampleId :

MW-2

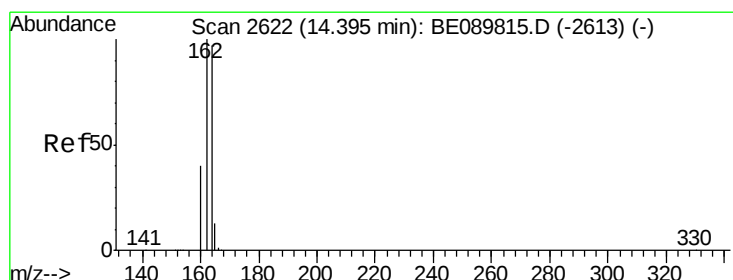
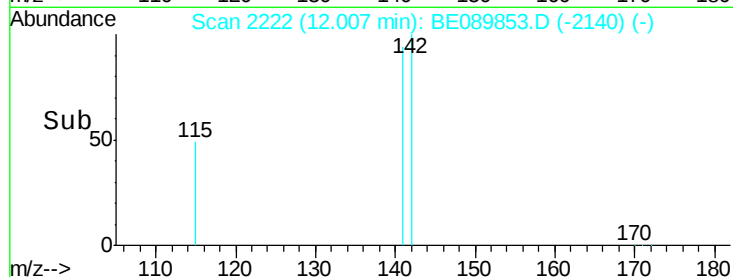
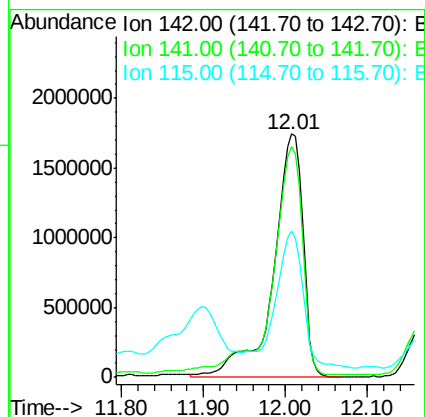
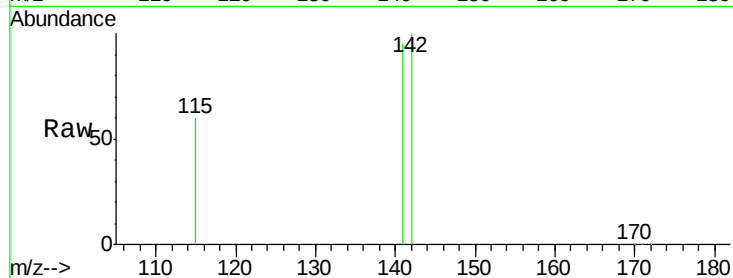
Tgt Ion:142 Resp: 4321476

Ion Ratio Lower Upper

142 100

141 94.7 72.8 109.2

115 59.9 32.9 49.3#



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.48 min Scan# 2630

Delta R.T. 0.10 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

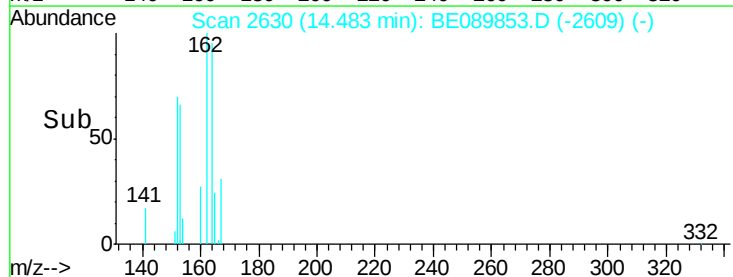
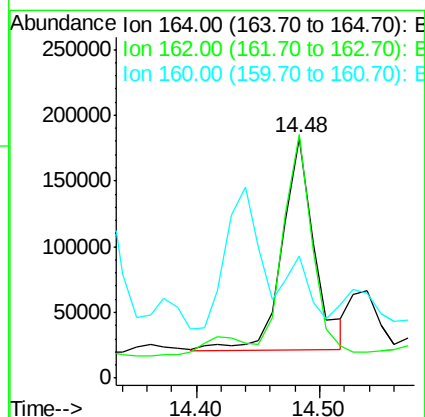
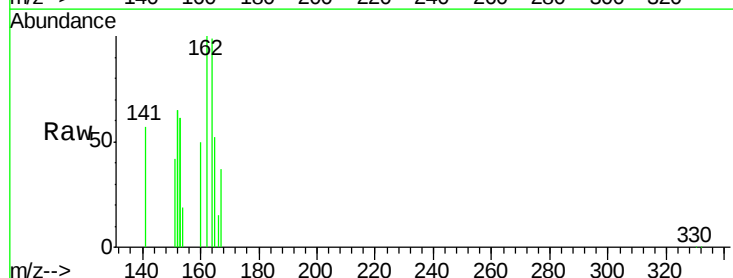
Tgt Ion:164 Resp: 289034

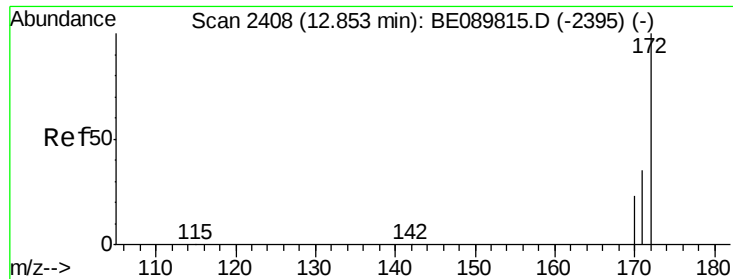
Ion Ratio Lower Upper

164 100

162 101.4 87.6 131.4

160 50.9 36.7 55.1





#9

2-Fluorobiphenyl

Concen: 8.73 ng

RT: 12.91 min Scan# 2421

Delta R.T. 0.06 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

Instrument :

BNA\_E

ClientSampleId :

MW-2

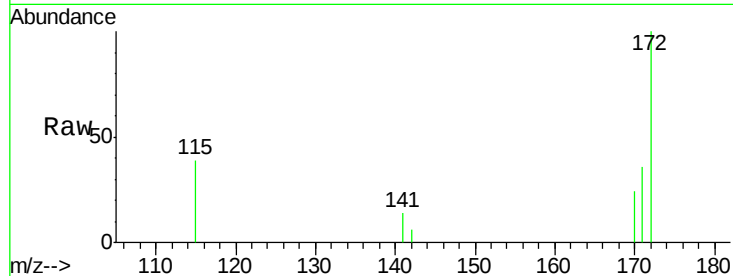
Tgt Ion:172 Resp: 590512

Ion Ratio Lower Upper

172 100

171 36.3 30.8 46.2

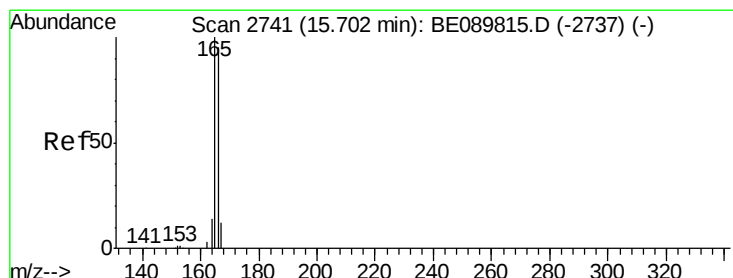
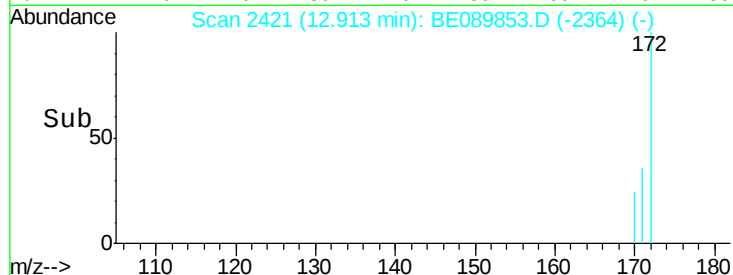
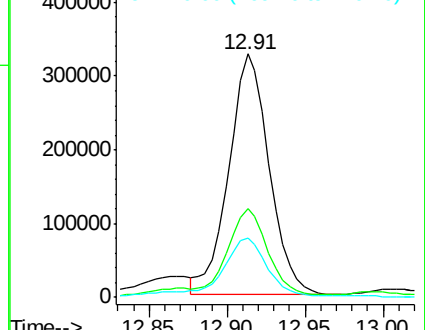
170 24.3 21.0 31.4



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#12

Fluorene

Concen: 31.41 ng

RT: 15.81 min Scan# 2751

Delta R.T. 0.10 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

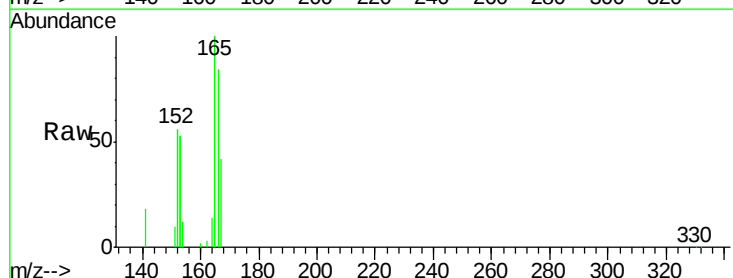
Tgt Ion:166 Resp: 2411832

Ion Ratio Lower Upper

166 100

165 122.7 85.1 127.7

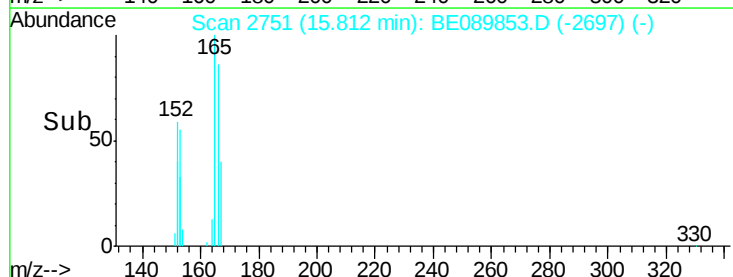
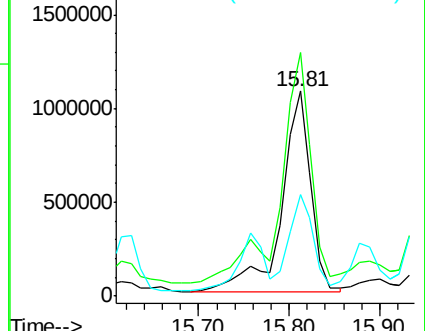
167 35.3 12.2 18.4#

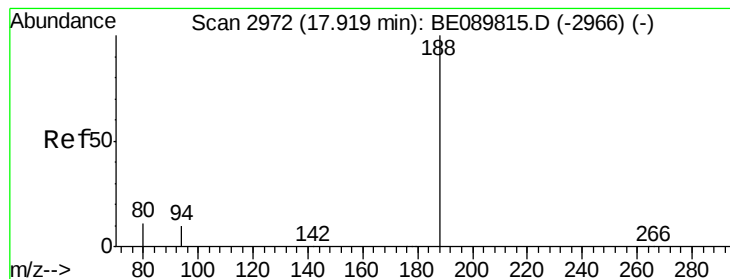


Abundance Ion 166.00 (165.70 to 166.70): E

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: 18.01 min Scan# 2982

Delta R.T. 0.09 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

Instrument :

BNA\_E

ClientSampleId :

MW-2

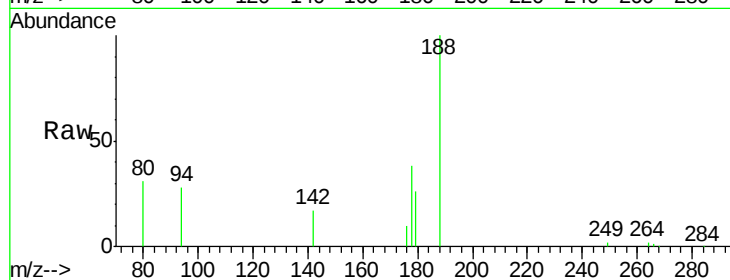
Tgt Ion:188 Resp: 480608

Ion Ratio Lower Upper

188 100

94 28.2 8.5 12.7#

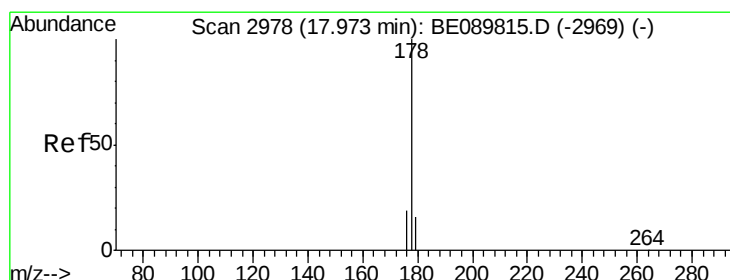
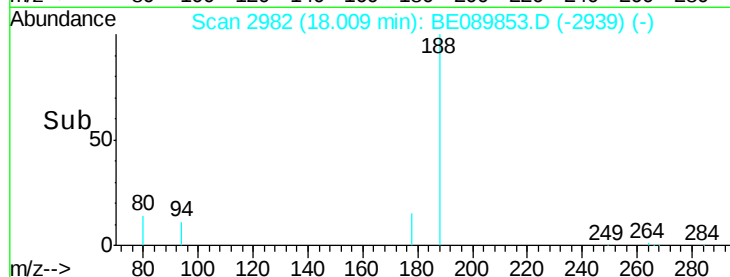
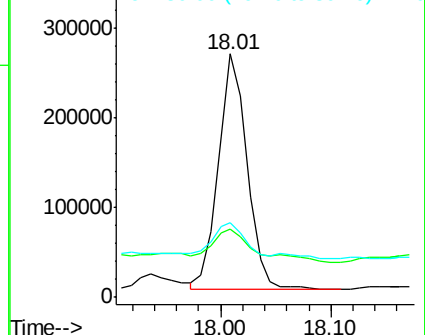
80 30.8 10.0 15.0#



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



#16

Phenanthrene

Concen: 49.43 ng

RT: 18.08 min Scan# 2990

Delta R.T. 0.11 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

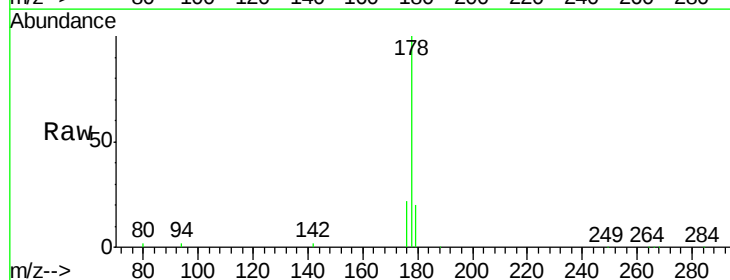
Tgt Ion:178 Resp: 5222009

Ion Ratio Lower Upper

178 100

176 20.8 15.4 23.0

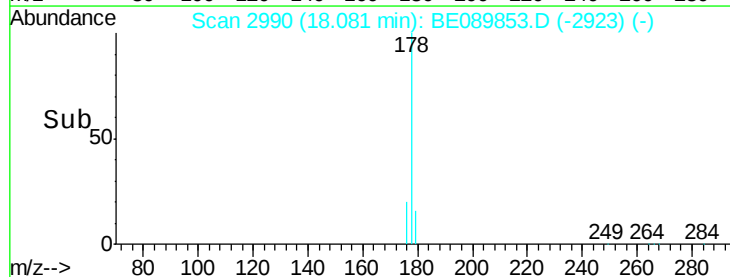
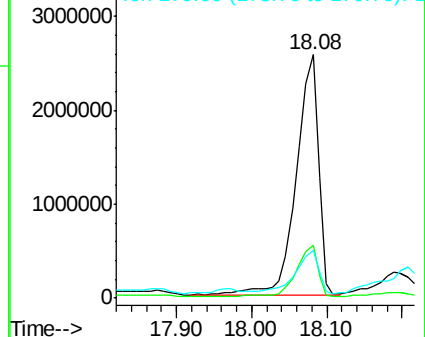
179 18.6 12.2 18.4#

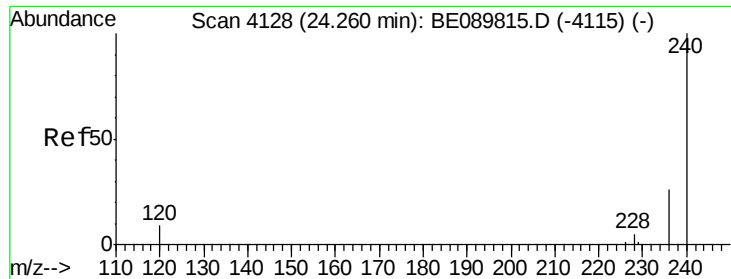


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#19

Chrysene-d12

Concen: 5.00 ng

RT: 24.28 min Scan# 4133

Delta R.T. 0.02 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

Instrument :

BNA\_E

ClientSampleId :

MW-2

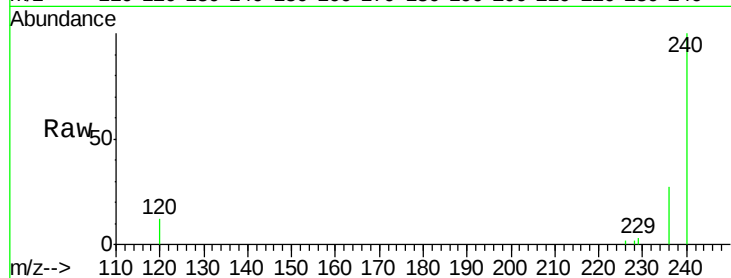
Tgt Ion:240 Resp: 474055

Ion Ratio Lower Upper

240 100

120 12.0 7.5 11.3#

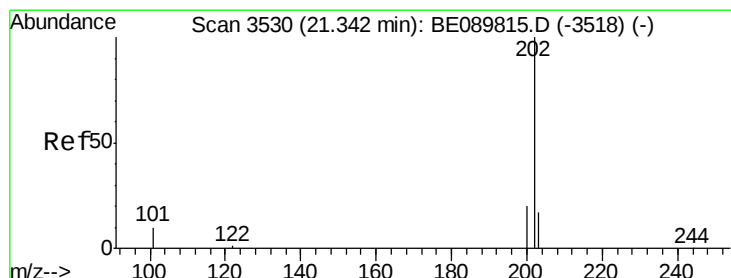
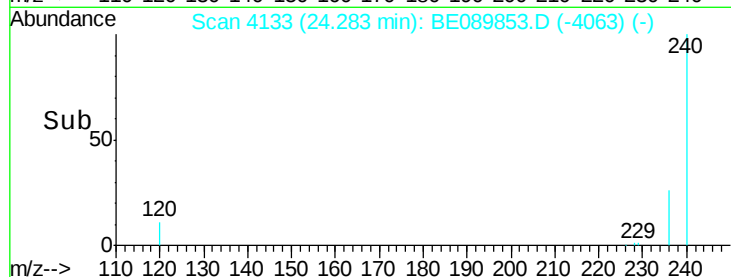
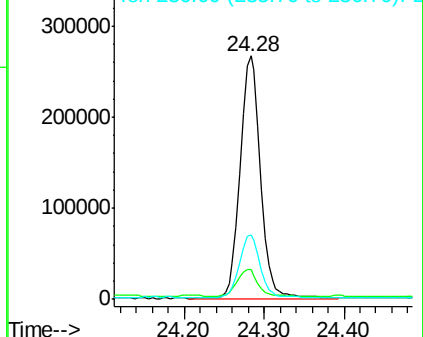
236 26.7 20.5 30.7



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: 5.17 ng m

RT: 21.40 min Scan# 3542

Delta R.T. 0.06 min

Lab File: BE089853.D

Acq: 26 Mar 2015 1:31

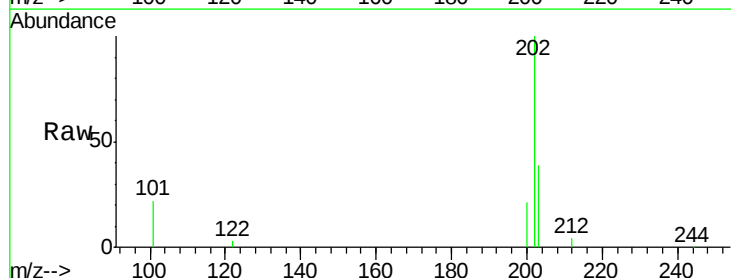
Tgt Ion:202 Resp: 621511

Ion Ratio Lower Upper

202 100

200 1.1 15.9 23.9#

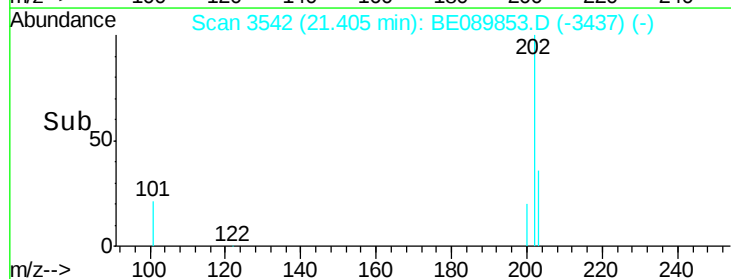
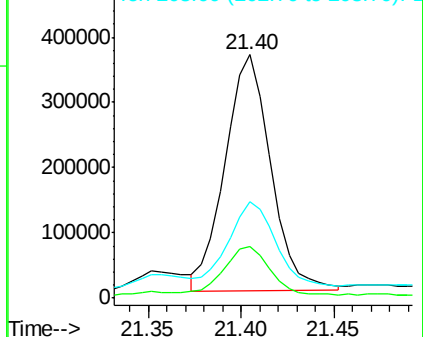
203 6.7 13.6 20.4#

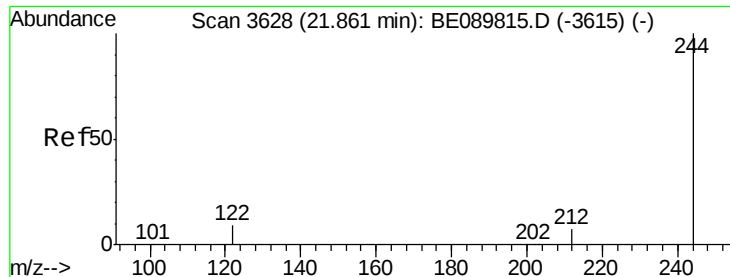


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

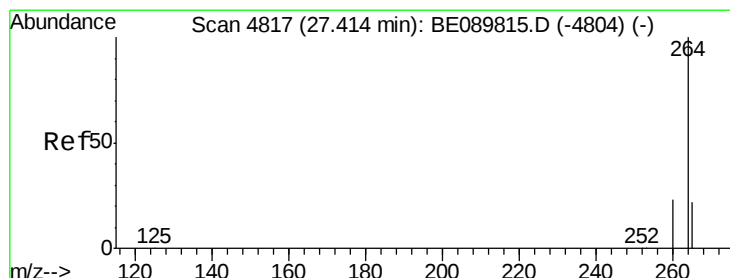
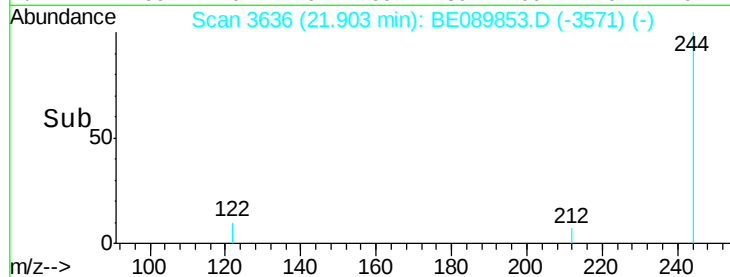
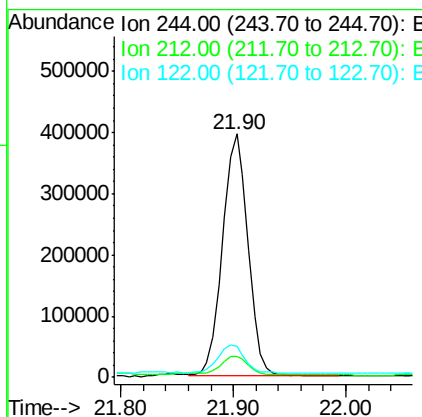
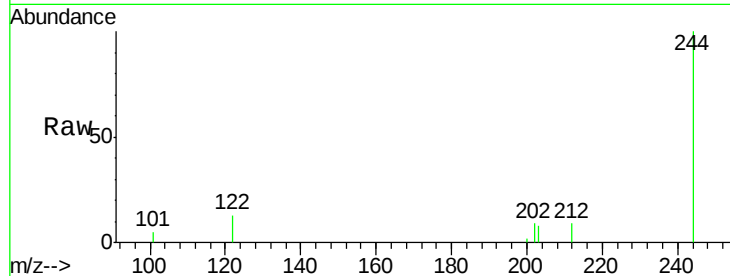




#21  
 Terphenyl-d14  
 Concen: 8.86 ng  
 RT: 21.90 min Scan# 3636  
 Delta R.T. 0.04 min  
 Lab File: BE089853.D  
 Acq: 26 Mar 2015 1:31

Instrument :  
 BNA\_E  
 ClientSampleId :  
 MW-2

Tgt Ion: 244 Resp: 619608  
 Ion Ratio Lower Upper  
 244 100  
 212 8.7 7.3 10.9  
 122 12.6 10.5 15.7



#25  
 Perylene-d12  
 Concen: 5.00 ng  
 RT: 27.42 min Scan# 4819  
 Delta R.T. 0.01 min  
 Lab File: BE089853.D  
 Acq: 26 Mar 2015 1:31

Tgt Ion: 264 Resp: 450042  
 Ion Ratio Lower Upper  
 264 100  
 260 23.8 18.2 27.2  
 265 21.8 17.3 25.9

