

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE020515\  
 Data File : BE089519.D  
 Acq On : 6 Feb 2015 2:53  
 Operator : TP/IZ  
 Sample : G1210-06  
 Misc : 4 TIME INT STD  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 YT-MW-07

Quant Time: Feb 06 04:32:47 2015  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SIMPAH-BE020515.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 06 03:21:38 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 9.49  | 152  | 126429   | 5.00 | ng    | 0.00     |
| 2) Naphthalene-d8         | 12.40 | 136  | 524203   | 5.00 | ng    | 0.00     |
| 6) Acenaphthene-d10       | 16.59 | 164  | 240911   | 5.00 | ng    | 0.00     |
| 11) Phenanthrene-d10      | 19.91 | 188  | 468285   | 5.00 | ng    | 0.00     |
| 16) Chrysene-d12          | 23.77 | 240  | 514182   | 5.00 | ng    | 0.00     |
| 22) Perylene-d12          | 25.46 | 264  | 496217   | 5.00 | ng    | 0.00     |

|                             |       |     |        |      |    |      |
|-----------------------------|-------|-----|--------|------|----|------|
| System Monitoring Compounds |       |     |        |      |    |      |
| 3) Nitrobenzene-d5          | 10.76 | 82  | 54973  | 1.37 | ng | 0.00 |
| 7) 2-Fluorobiphenyl         | 15.03 | 172 | 105532 | 1.39 | ng | 0.00 |
| 18) Terphenyl-d14           | 22.41 | 244 | 147515 | 1.65 | ng | 0.00 |

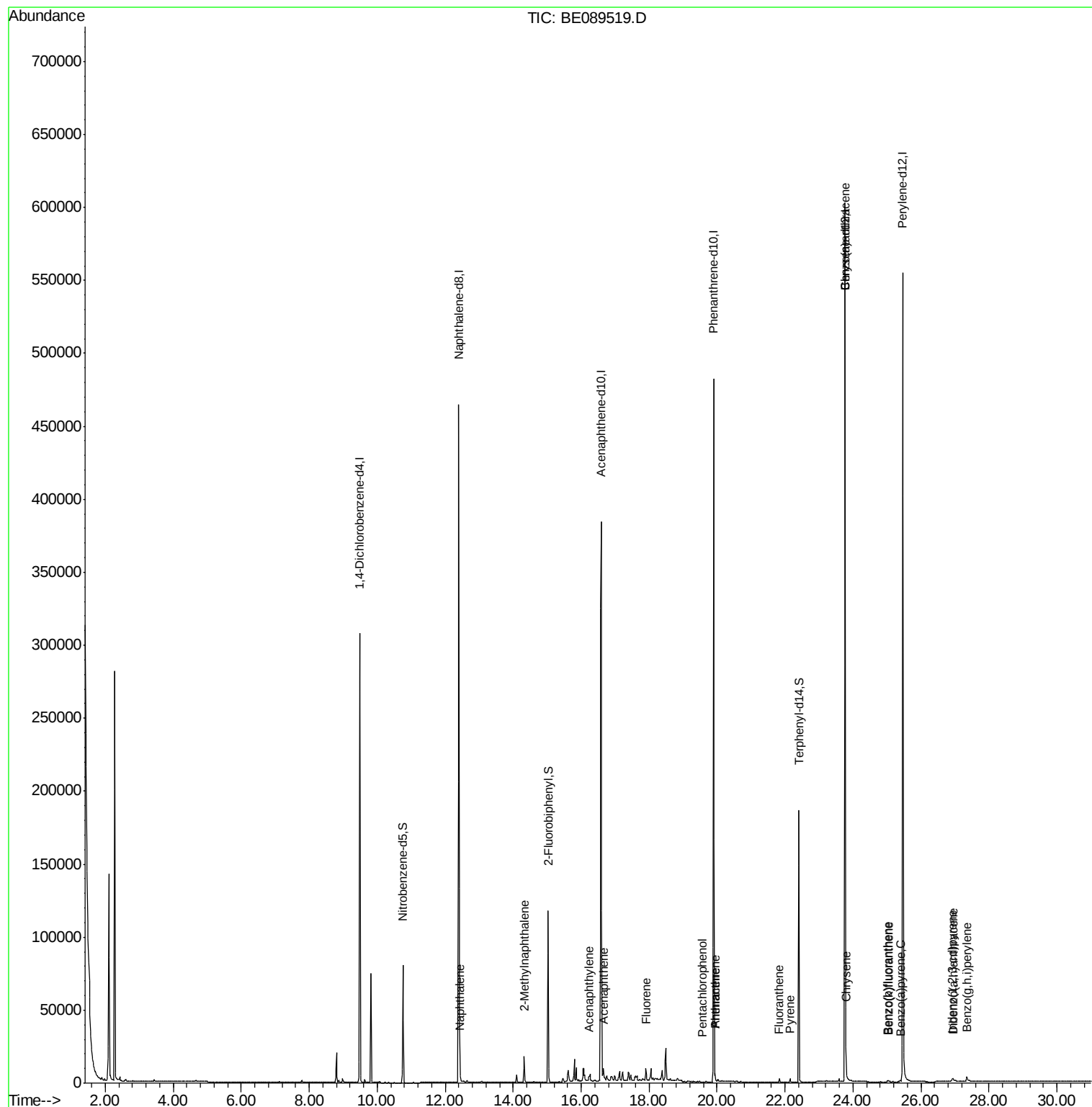
|                            |       |     |       |      |    |        |
|----------------------------|-------|-----|-------|------|----|--------|
| Target Compounds           |       |     |       |      |    | Qvalue |
| 4) Naphthalene             | 12.45 | 128 | 4174  | 0.03 | ng | # 91   |
| 5) 2-Methylnaphthalene     | 14.33 | 142 | 11330 | 0.13 | ng | # 93   |
| 8) Acenaphthylene          | 16.23 | 152 | 6118  | 0.01 | ng | # 74   |
| 9) Acenaphthene            | 16.65 | 154 | 1542  | 0.02 | ng | # 46   |
| 10) Fluorene               | 17.91 | 166 | 2785  | 0.07 | ng | # 95   |
| 12) Pentachlorophenol      | 19.58 | 266 | 10    | 0.00 | ng | # 62   |
| 13) Phenanthrene           | 19.94 | 178 | 4565  | 0.03 | ng | 100    |
| 14) Anthracene             | 19.94 | 178 | 4565  | 0.09 | ng | 98     |
| 15) Fluoranthene           | 21.83 | 202 | 1829  | 0.07 | ng | # 97   |
| 17) Pyrene                 | 22.15 | 202 | 1996  | 0.01 | ng | 96     |
| 19) Benzo(a)anthracene     | 23.75 | 228 | 11272 | 0.05 | ng | # 89   |
| 20) Chrysene               | 23.79 | 228 | 5975  | 0.02 | ng | # 90   |
| 21) Indeno(1,2,3-cd)pyrene | 26.92 | 276 | 5083  | 0.07 | ng | # 98   |
| 23) Benzo(b)fluoranthene   | 25.02 | 252 | 1153  | 0.12 | ng | # 57   |
| 24) Benzo(k)fluoranthene   | 25.04 | 252 | 1543  | 0.01 | ng | # 66   |
| 25) Benzo(a)pyrene         | 25.39 | 252 | 1082  | 0.11 | ng | # 56   |
| 26) Dibenzo(a,h)anthracene | 26.95 | 278 | 1006  | 0.07 | ng | # 57   |
| 27) Benzo(g,h,i)perylene   | 27.35 | 276 | 5253  | 0.04 | ng | # 74   |

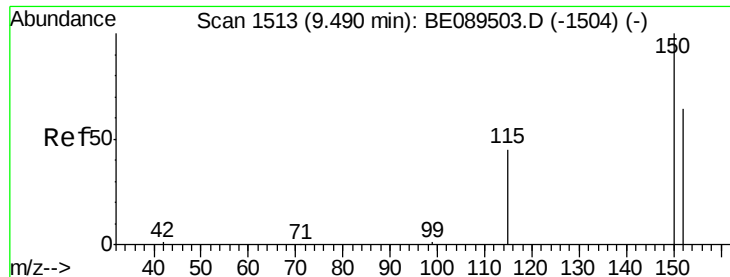
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Feb 06 03:21:38 2015  
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.49 min Scan# 1513

Delta R.T. -0.00 min

Lab File: BE089519.D

Acq: 6 Feb 2015 2:53

Instrument :

BNA\_E

ClientSampleId :

YT-MW-07

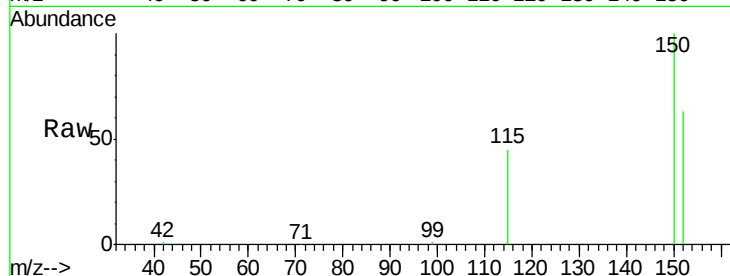
Tgt Ion:152 Resp: 126429

Ion Ratio Lower Upper

152 100

150 159.4 125.0 187.6

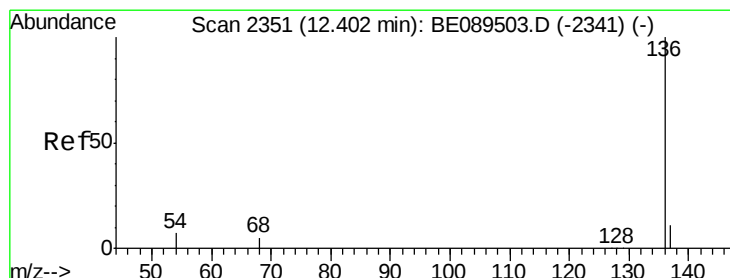
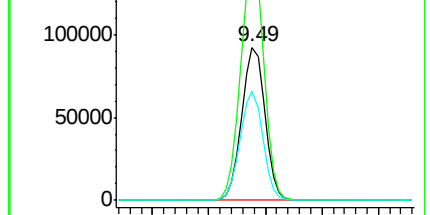
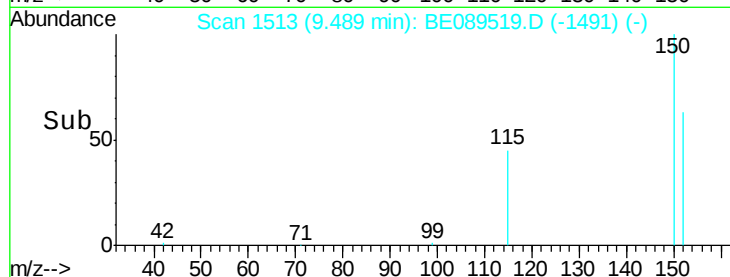
115 71.4 56.6 85.0



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



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.40 min Scan# 2351

Delta R.T. -0.00 min

Lab File: BE089519.D

Acq: 6 Feb 2015 2:53

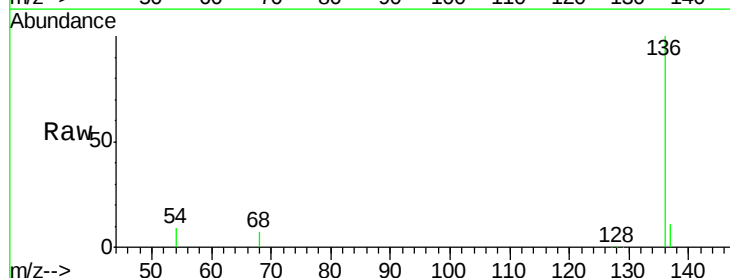
Tgt Ion:136 Resp: 524203

Ion Ratio Lower Upper

136 100

137 10.8 8.6 12.8

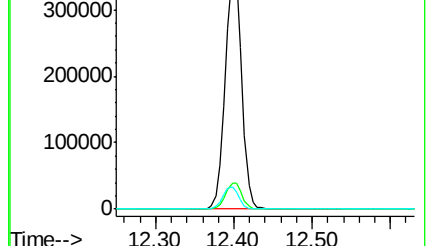
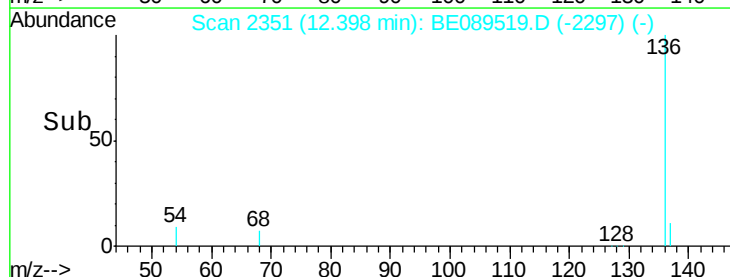
54 9.1 6.0 9.0#

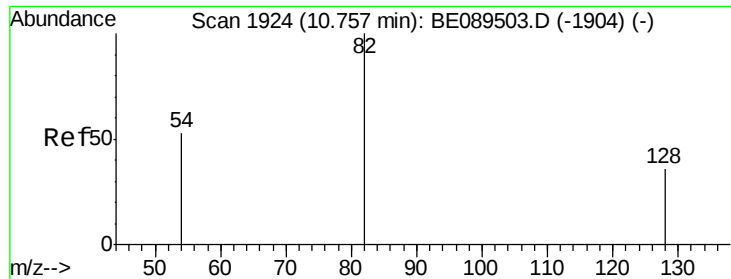


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#3

Nitrobenzene-d5

Concen: 1.37 ng

RT: 10.76 min Scan# 1924

Delta R.T. -0.00 min

Lab File: BE089519.D

Acq: 6 Feb 2015 2:53

Instrument :

BNA\_E

ClientSampleId :

YT-MW-07

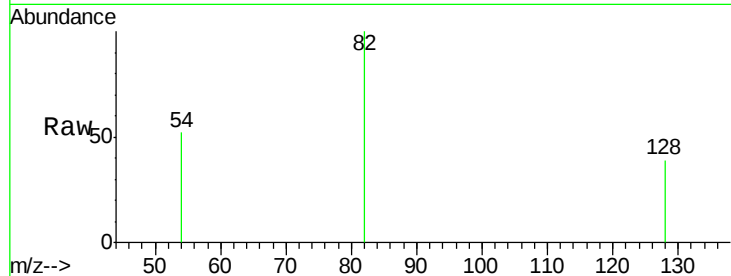
Tgt Ion: 82 Resp: 54973

Ion Ratio Lower Upper

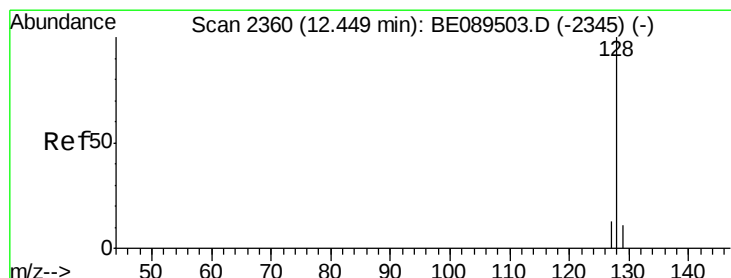
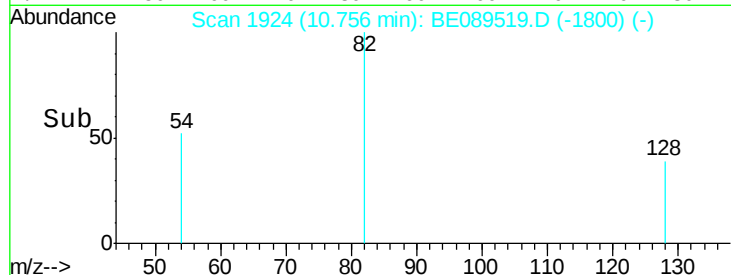
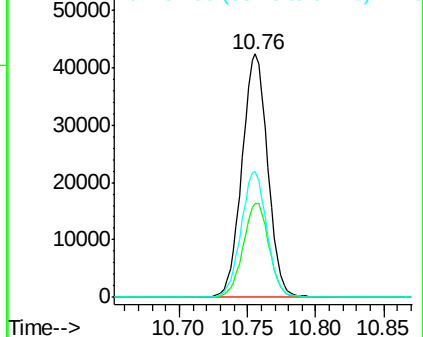
82 100

128 38.8 29.3 43.9

54 51.7 42.6 64.0



Abundance Ion 82.00 (81.70 to 82.70): BE0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BE0



#4

Naphthalene

Concen: 0.03 ng

RT: 12.45 min Scan# 2360

Delta R.T. -0.00 min

Lab File: BE089519.D

Acq: 6 Feb 2015 2:53

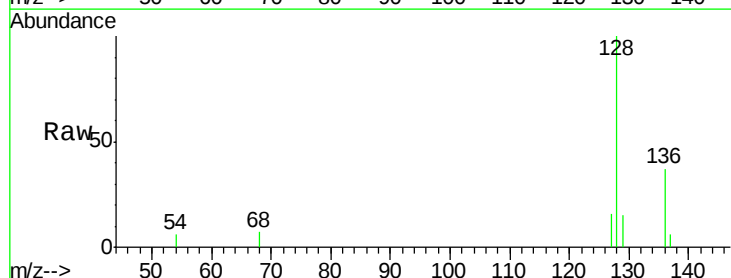
Tgt Ion: 128 Resp: 4174

Ion Ratio Lower Upper

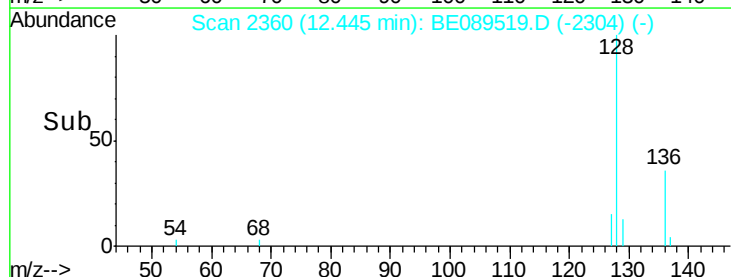
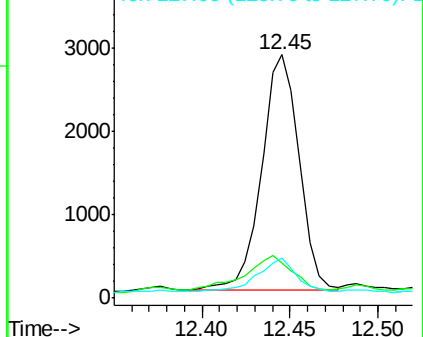
128 100

129 14.5 8.8 13.2#

127 16.4 10.3 15.5#



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





#5

2-Methylnaphthalene

Concen: 0.13 ng

RT: 14.33 min Scan# 2743

Delta R.T. 0.22 min

Lab File: BE089519.D

Acq: 6 Feb 2015 2:53

Instrument :

BNA\_E

ClientSampleId :

YT-MW-07

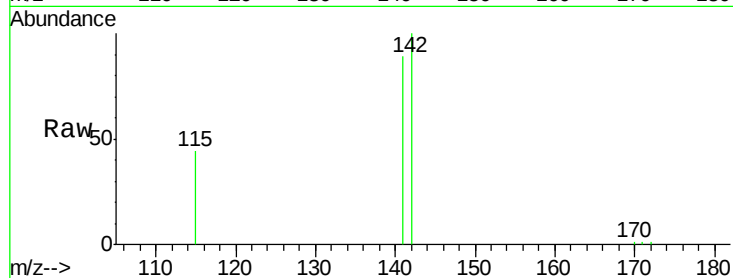
Tgt Ion:142 Resp: 11330

Ion Ratio Lower Upper

142 100

141 89.1 66.3 99.5

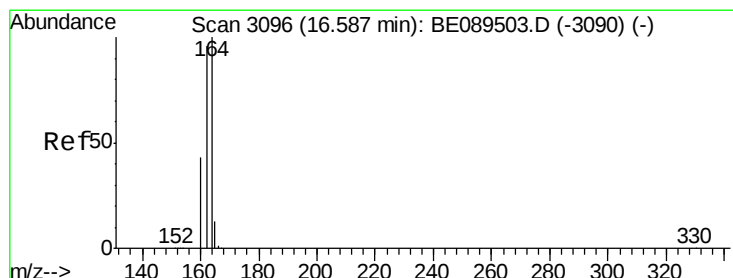
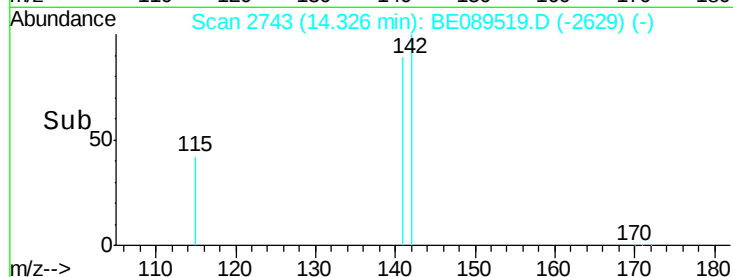
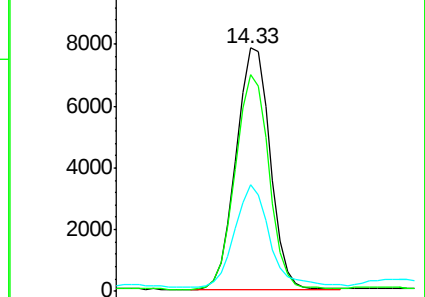
115 43.9 31.1 46.7



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: 16.59 min Scan# 3097

Delta R.T. 0.00 min

Lab File: BE089519.D

Acq: 6 Feb 2015 2:53

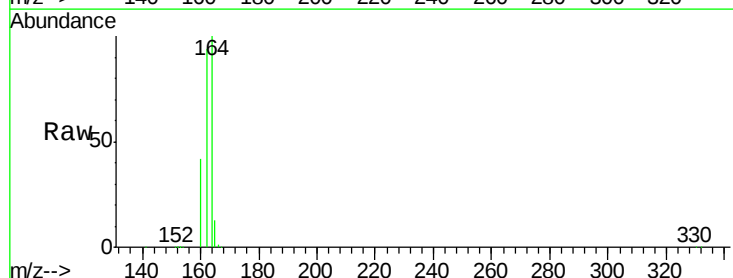
Tgt Ion:164 Resp: 240911

Ion Ratio Lower Upper

164 100

162 93.6 76.6 115.0

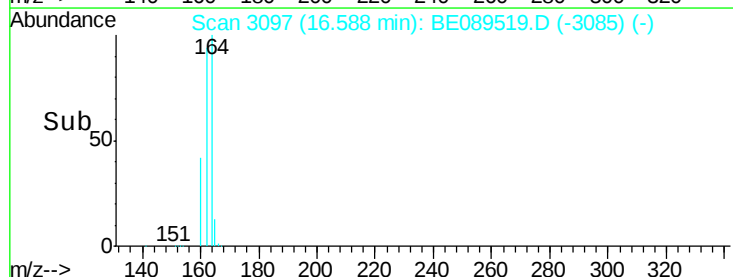
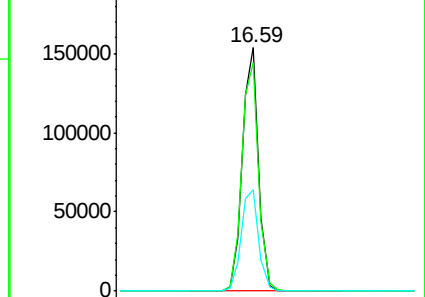
160 41.8 34.6 52.0



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: 1.39 ng

RT: 15.03 min Scan# 2898

Delta R.T. 0.00 min

Lab File: BE089519.D

Acq: 6 Feb 2015 2:53

Instrument :

BNA\_E

ClientSampleId :

YT-MW-07

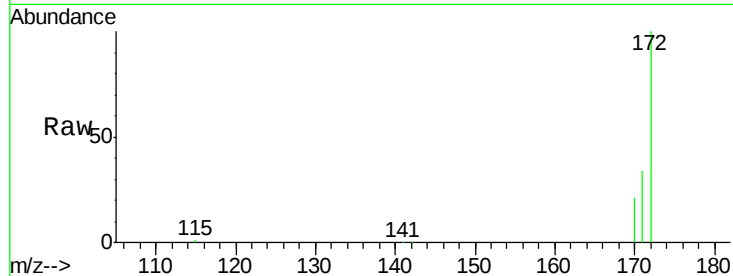
Tgt Ion:172 Resp: 105532

Ion Ratio Lower Upper

172 100

171 33.5 27.4 41.0

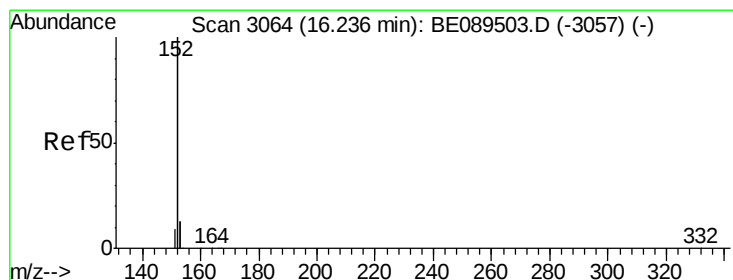
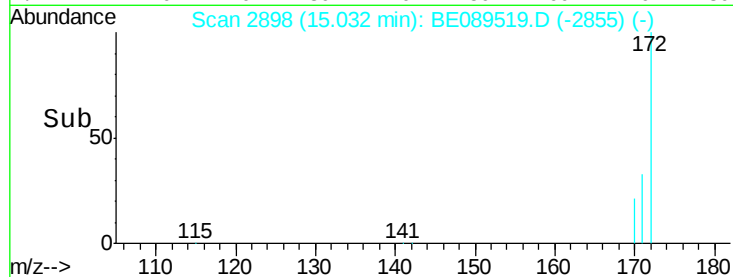
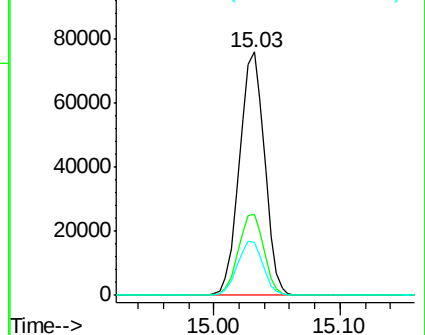
170 21.5 18.4 27.6



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: 0.01 ng

RT: 16.23 min Scan# 3064

Delta R.T. -0.01 min

Lab File: BE089519.D

Acq: 6 Feb 2015 2:53

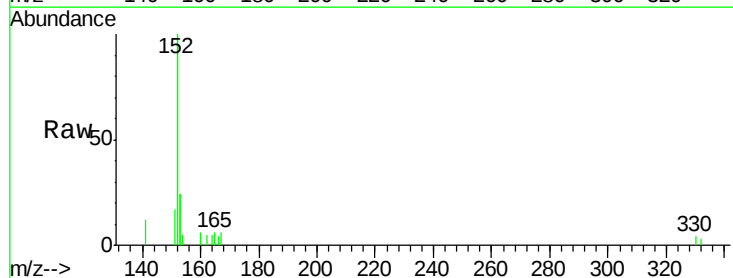
Tgt Ion:152 Resp: 6118

Ion Ratio Lower Upper

152 100

151 8.1 3.9 5.9#

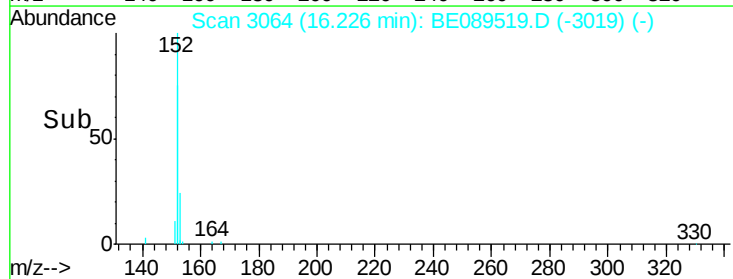
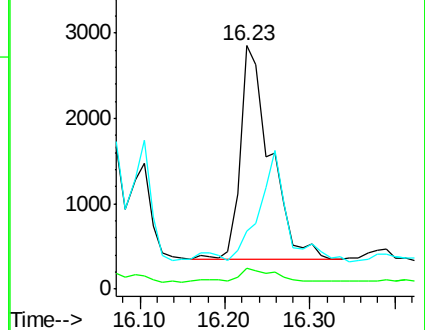
153 0.0 10.4 15.6#

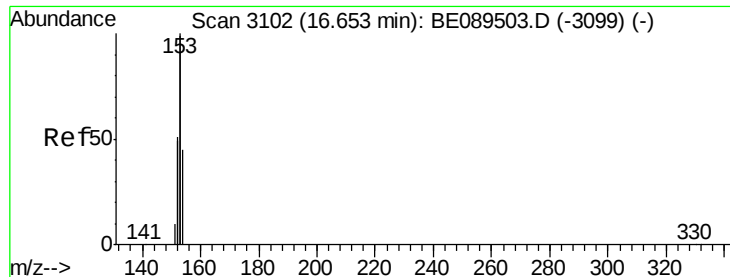


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 0.02 ng

RT: 16.65 min Scan# 3103

Delta R.T. 0.00 min

Lab File: BE089519.D

Acq: 6 Feb 2015 2:53

Instrument :

BNA\_E

ClientSampleId :

YT-MW-07

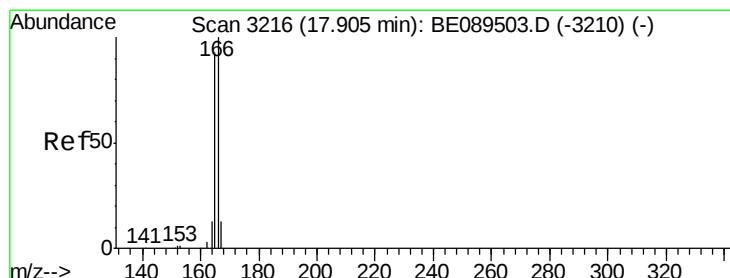
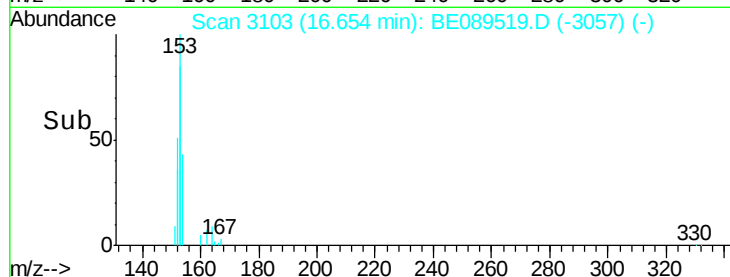
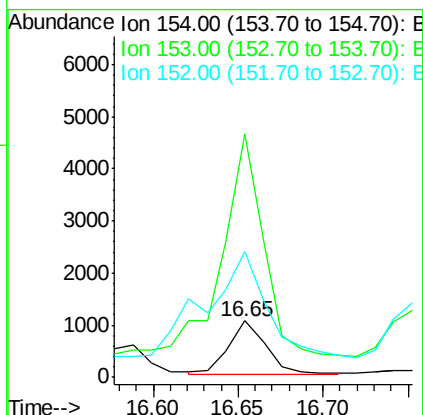
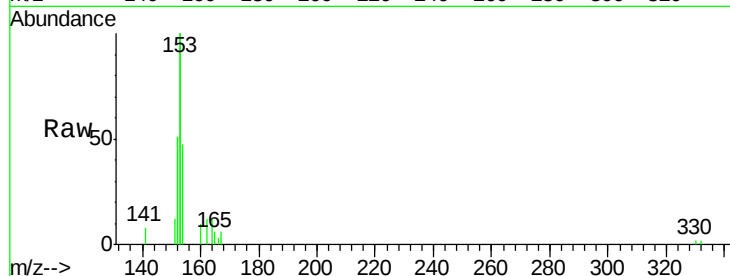
Tgt Ion:154 Resp: 1542

Ion Ratio Lower Upper

154 100

153 519.5 341.5 512.3#

152 344.8 166.6 249.8#



#10

Fluorene

Concen: 0.07 ng

RT: 17.91 min Scan# 3217

Delta R.T. 0.00 min

Lab File: BE089519.D

Acq: 6 Feb 2015 2:53

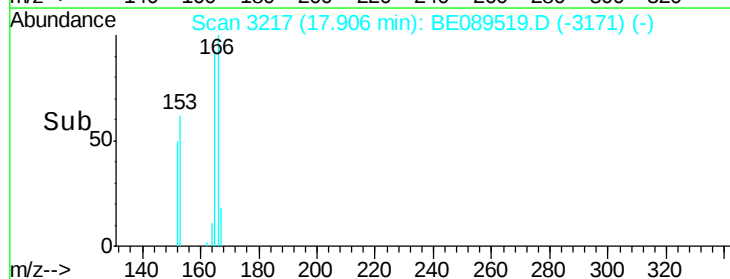
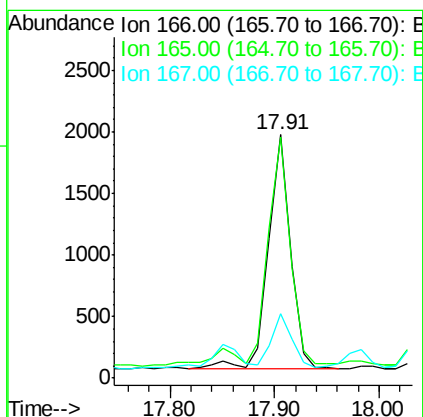
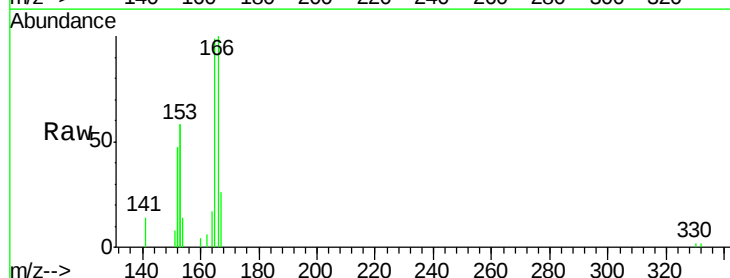
Tgt Ion:166 Resp: 2785

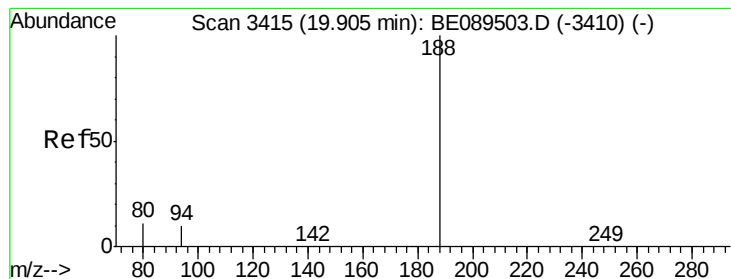
Ion Ratio Lower Upper

166 100

165 95.0 73.6 110.4

167 20.7 10.6 15.8#





#11

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.91 min Scan# 3416

Delta R.T. 0.00 min

Lab File: BE089519.D

Acq: 6 Feb 2015 2:53

Instrument :

BNA\_E

ClientSampleId :

YT-MW-07

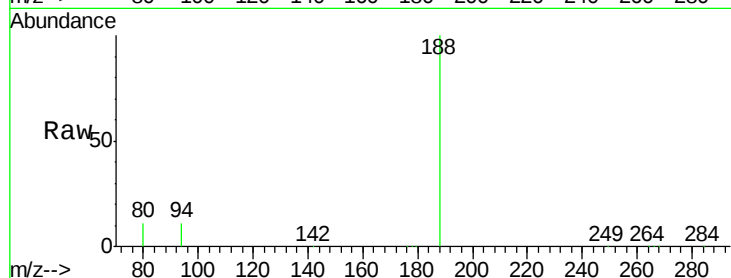
Tgt Ion:188 Resp: 468285

Ion Ratio Lower Upper

188 100

94 11.2 8.2 12.4

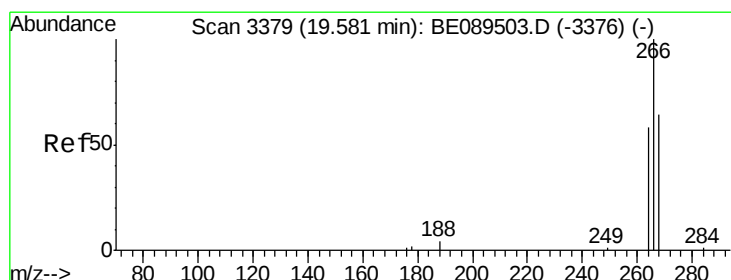
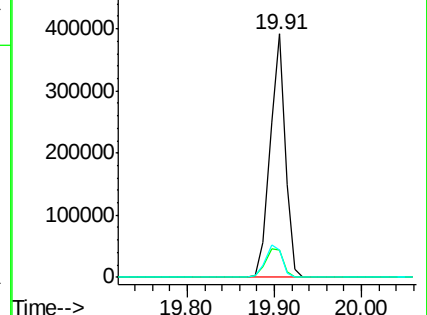
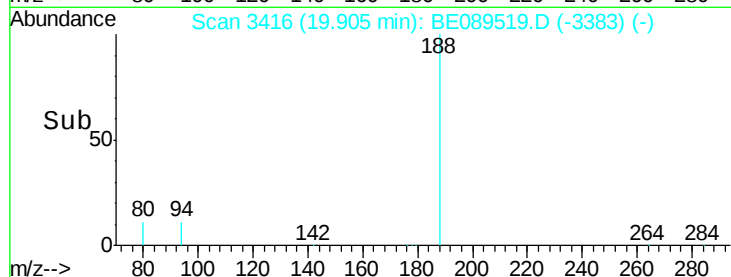
80 11.5 8.7 13.1



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



#12

Pentachlorophenol

Concen: 0.00 ng

RT: 19.58 min Scan# 3380

Delta R.T. 0.00 min

Lab File: BE089519.D

Acq: 6 Feb 2015 2:53

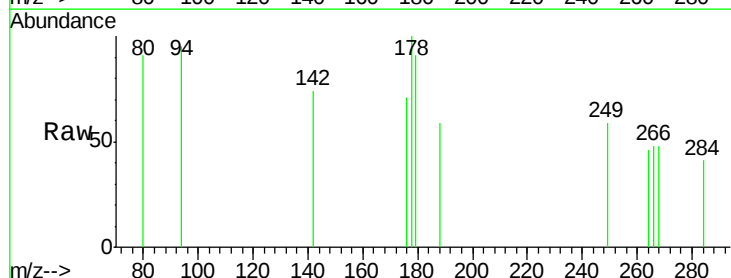
Tgt Ion:266 Resp: 10

Ion Ratio Lower Upper

266 100

268 100.0 56.7 85.1#

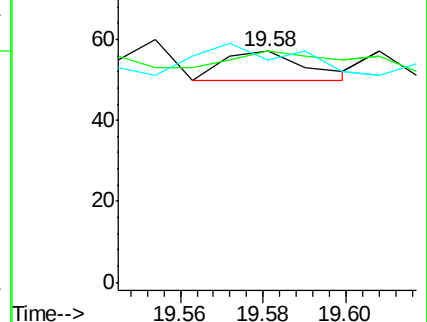
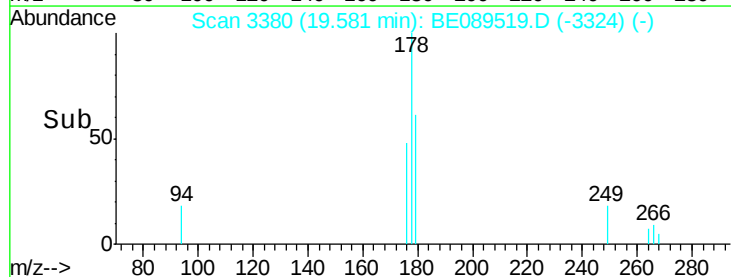
264 96.5 51.9 77.9#

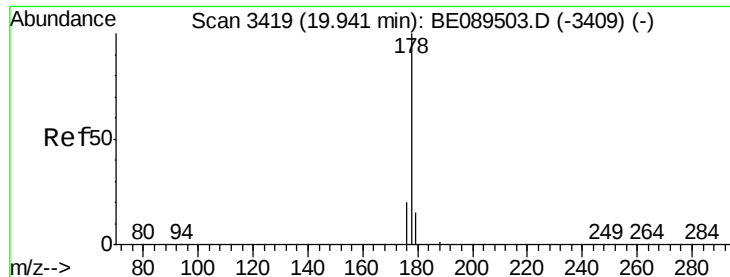


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#13

Phenanthrene

Concen: 0.03 ng

RT: 19.94 min Scan# 3420

Delta R.T. 0.00 min

Lab File: BE089519.D

Acq: 6 Feb 2015 2:53

Instrument :

BNA\_E

ClientSampleId :

YT-MW-07

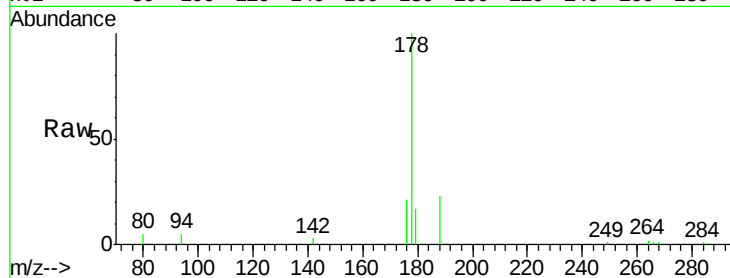
Tgt Ion:178 Resp: 4565

Ion Ratio Lower Upper

178 100

176 19.1 15.4 23.0

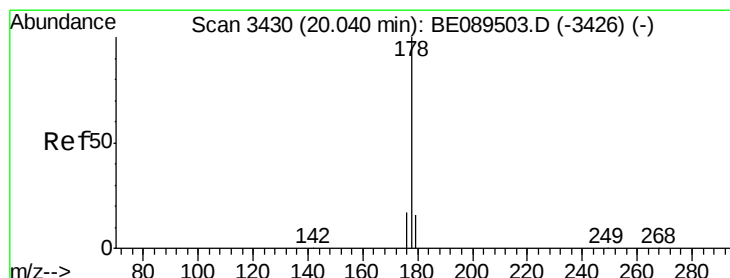
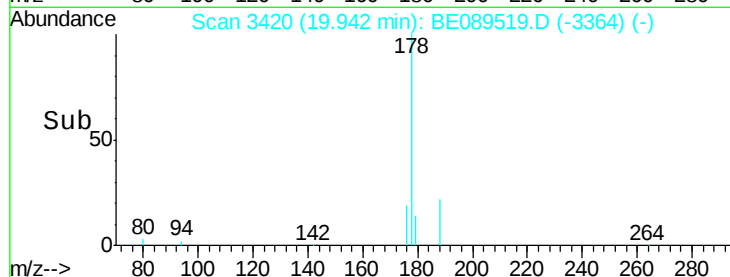
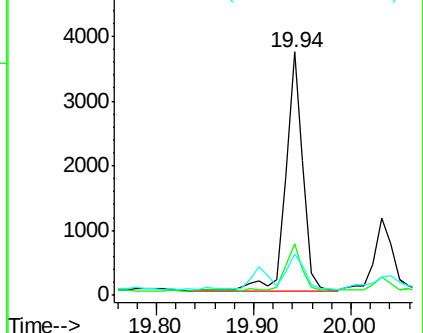
179 15.2 12.4 18.6



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

Anthracene

Concen: 0.09 ng

RT: 19.94 min Scan# 3420

Delta R.T. -0.10 min

Lab File: BE089519.D

Acq: 6 Feb 2015 2:53

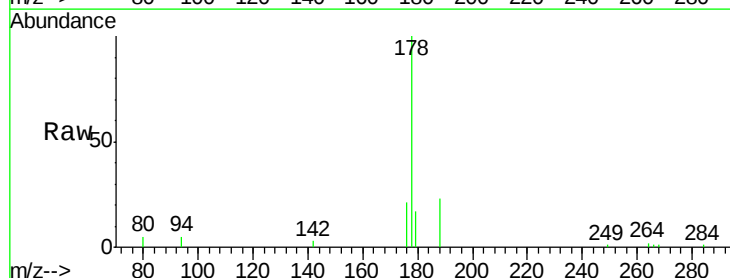
Tgt Ion:178 Resp: 4565

Ion Ratio Lower Upper

178 100

176 19.1 14.6 22.0

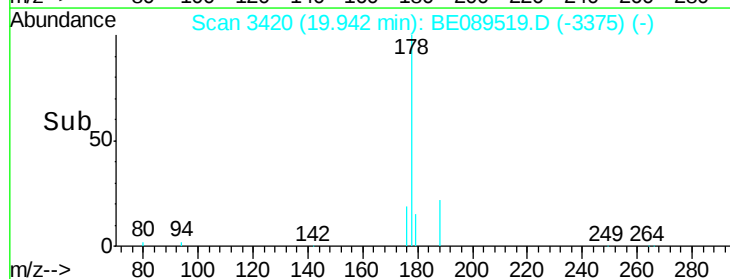
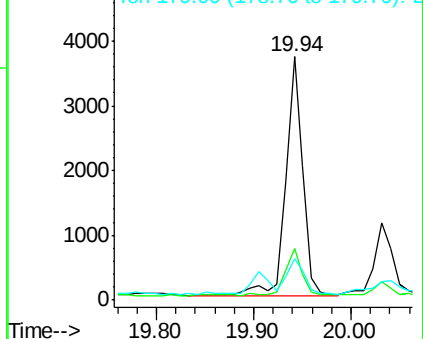
179 16.0 12.1 18.1

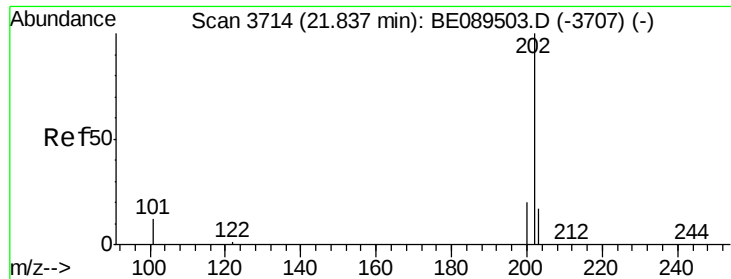


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

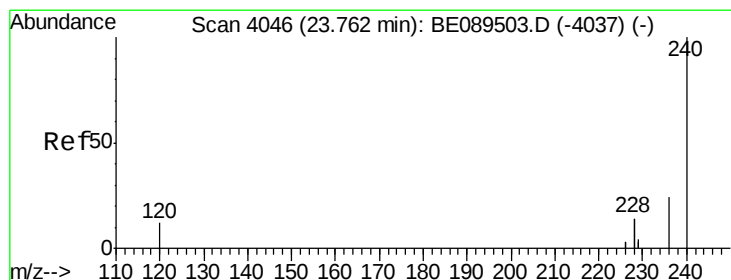
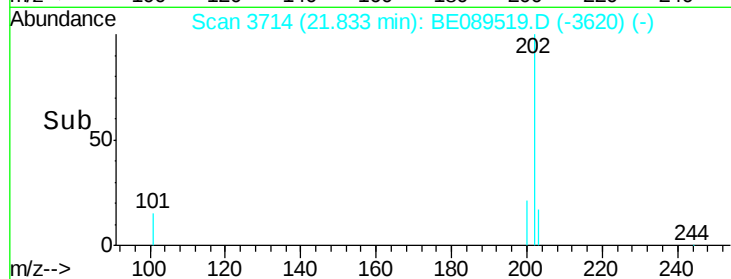
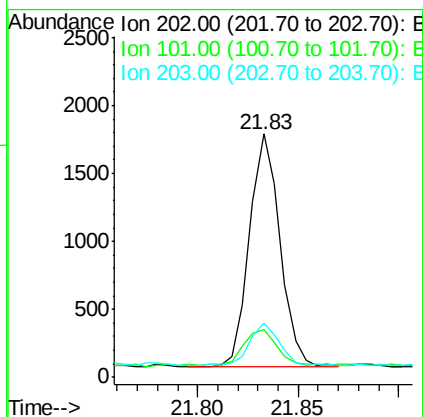
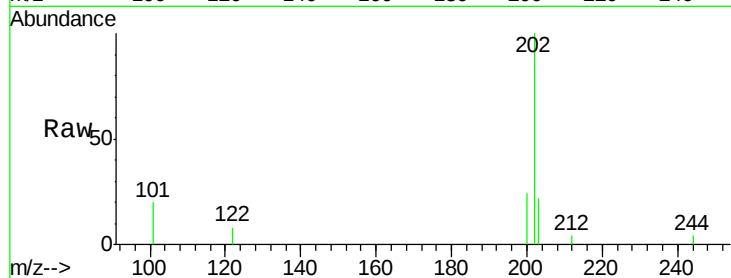




#15  
Fluoranthene  
Concen: 0.07 ng  
RT: 21.83 min Scan# 3714  
Delta R.T. -0.00 min  
Lab File: BE089519.D  
Acq: 6 Feb 2015 2:53

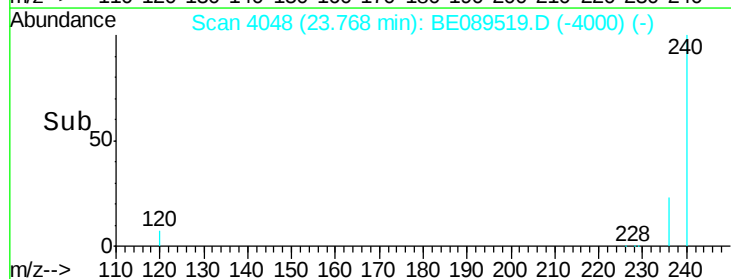
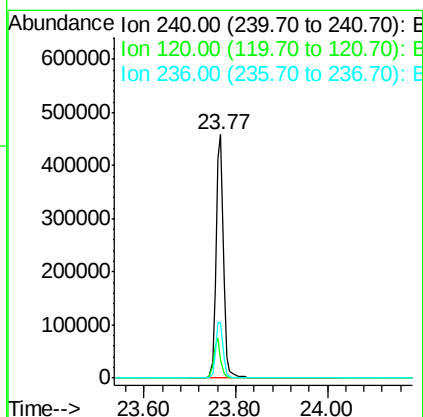
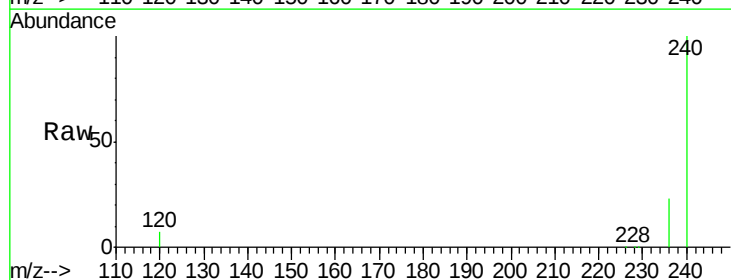
Instrument :  
BNA\_E  
ClientSampleId :  
YT-MW-07

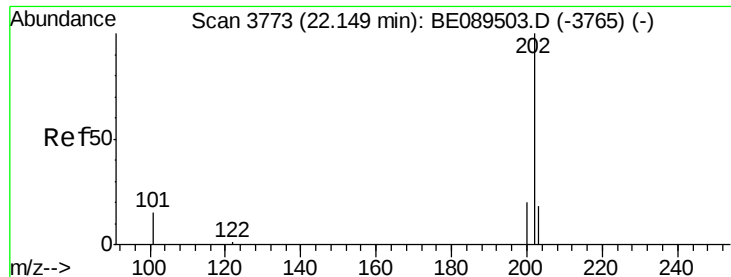
Tgt Ion: 202 Resp: 1829  
Ion Ratio Lower Upper  
202 100  
101 17.0 11.3 16.9#  
203 17.2 13.8 20.6



#16  
Chrysene-d12  
Concen: 5.00 ng  
RT: 23.77 min Scan# 4048  
Delta R.T. 0.01 min  
Lab File: BE089519.D  
Acq: 6 Feb 2015 2:53

Tgt Ion: 240 Resp: 514182  
Ion Ratio Lower Upper  
240 100  
120 7.5 9.6 14.4#  
236 22.6 19.4 29.2

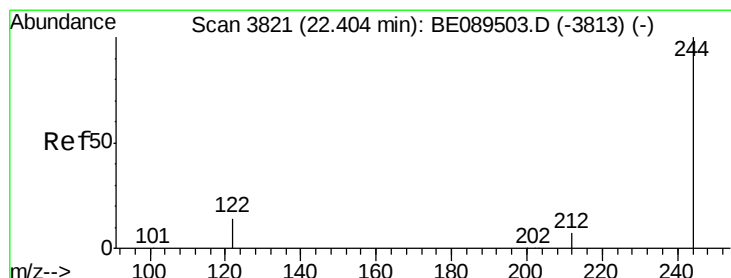
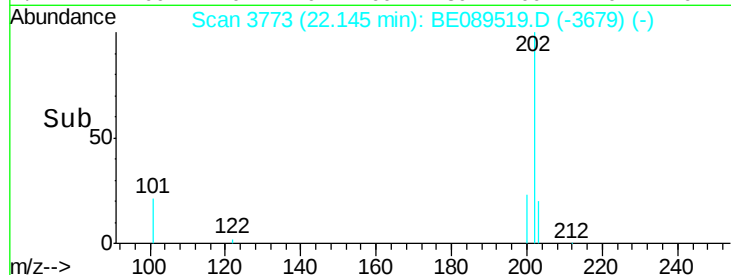
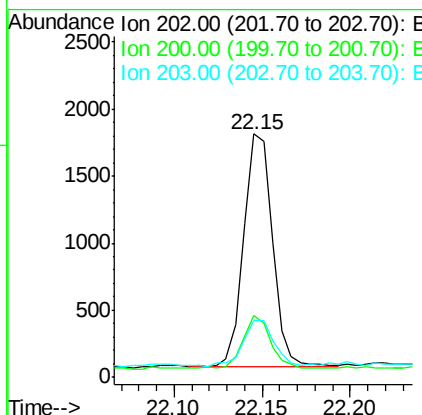
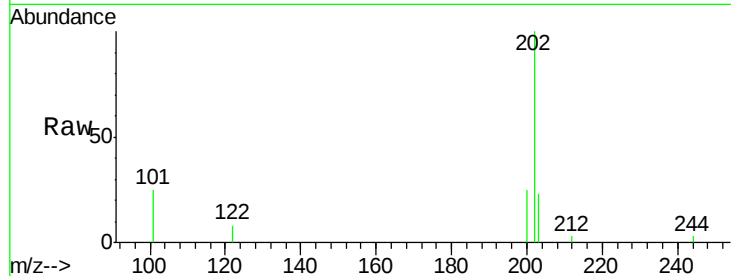




#17  
 Pyrene  
 Concen: 0.01 ng  
 RT: 22.15 min Scan# 3773  
 Delta R.T. -0.00 min  
 Lab File: BE089519.D  
 Acq: 6 Feb 2015 2:53

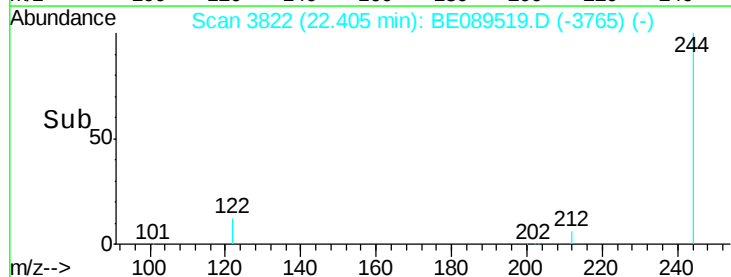
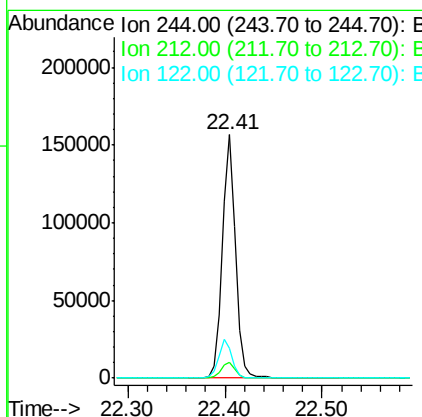
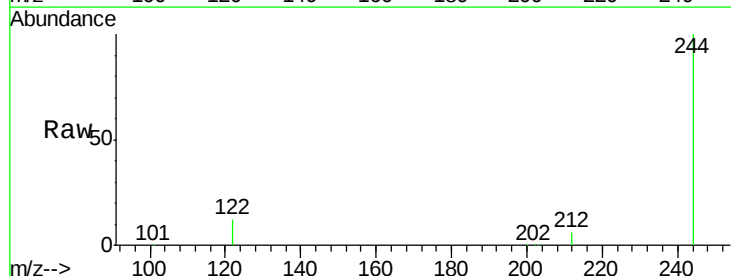
Instrument :  
 BNA\_E  
 ClientSampleId :  
 YT-MW-07

Tgt Ion: 202 Resp: 1996  
 Ion Ratio Lower Upper  
 202 100  
 200 21.6 16.5 24.7  
 203 19.9 14.0 21.0



#18  
 Terphenyl-d14  
 Concen: 1.65 ng  
 RT: 22.41 min Scan# 3822  
 Delta R.T. 0.00 min  
 Lab File: BE089519.D  
 Acq: 6 Feb 2015 2:53

Tgt Ion: 244 Resp: 147515  
 Ion Ratio Lower Upper  
 244 100  
 212 6.4 5.5 8.3  
 122 12.3 11.1 16.7





#19

Benzo(a)anthracene

Concen: 0.05 ng

RT: 23.75 min Scan# 4046

Delta R.T. 0.01 min

Lab File: BE089519.D

Acq: 6 Feb 2015 2:53

Instrument :

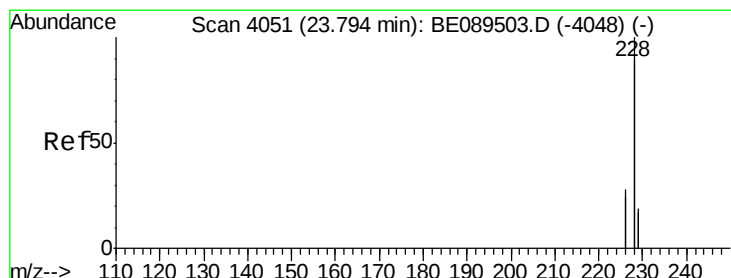
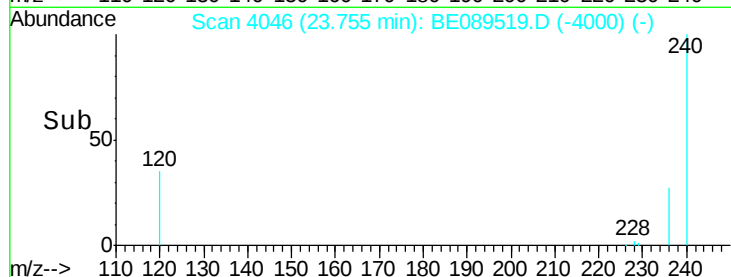
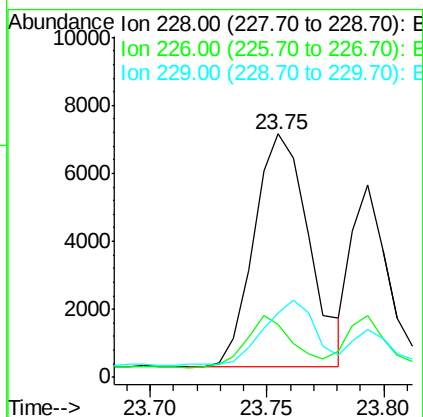
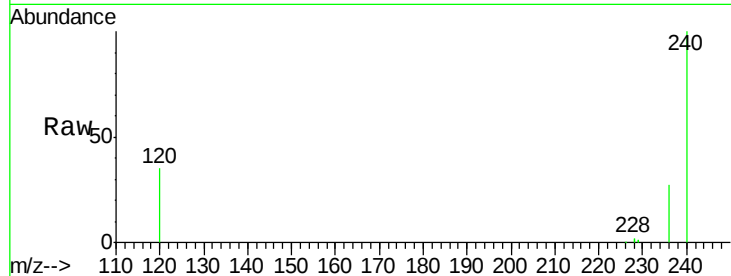
BNA\_E

ClientSampleId :

YT-MW-07

Tgt Ion:228 Resp: 11272

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 21.9  | 21.0  | 31.6  |
| 229 | 26.4  | 15.5  | 23.3# |



#20

Chrysene

Concen: 0.02 ng

RT: 23.79 min Scan# 4052

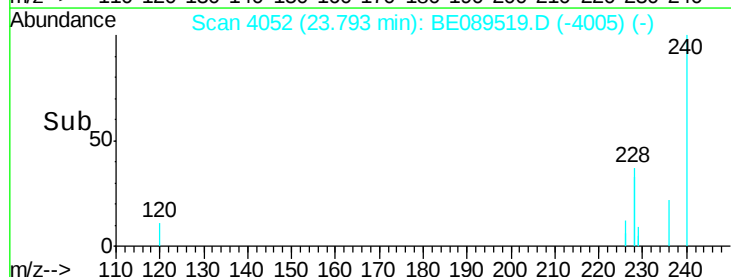
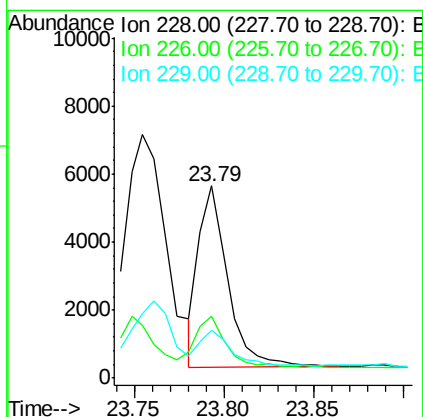
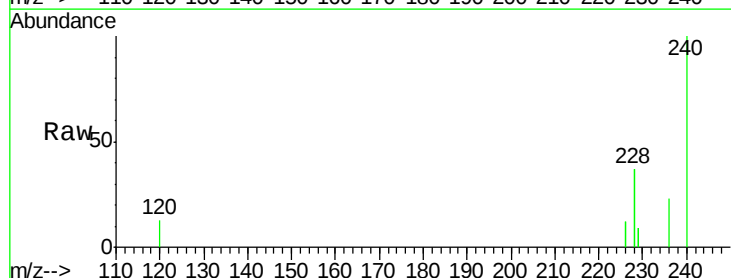
Delta R.T. 0.00 min

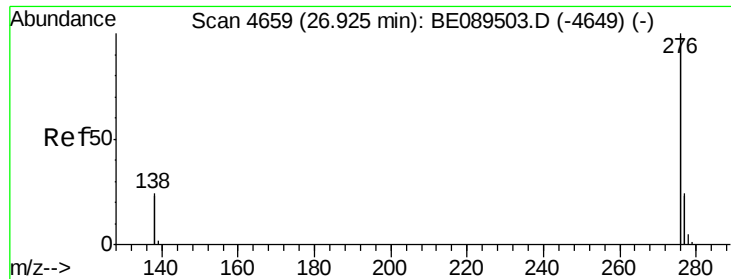
Lab File: BE089519.D

Acq: 6 Feb 2015 2:53

Tgt Ion:228 Resp: 5975

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 32.0  | 22.3  | 33.5  |
| 229 | 25.0  | 15.4  | 23.0# |





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.07 ng

RT: 26.92 min Scan# 4659

Delta R.T. -0.01 min

Lab File: BE089519.D

Acq: 6 Feb 2015 2:53

Instrument :

BNA\_E

ClientSampleId :

YT-MW-07

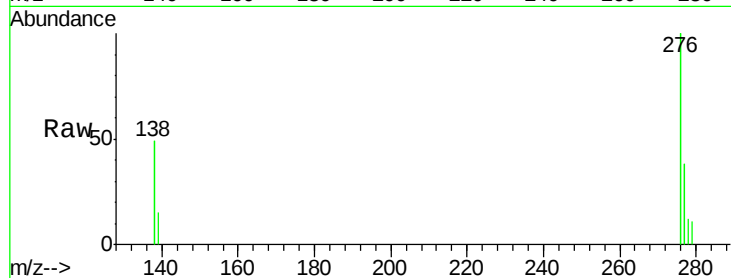
Tgt Ion:276 Resp: 5083

Ion Ratio Lower Upper

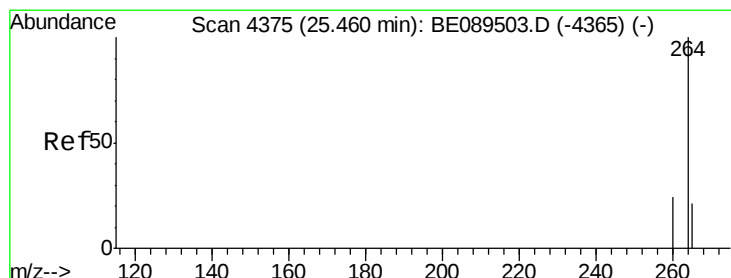
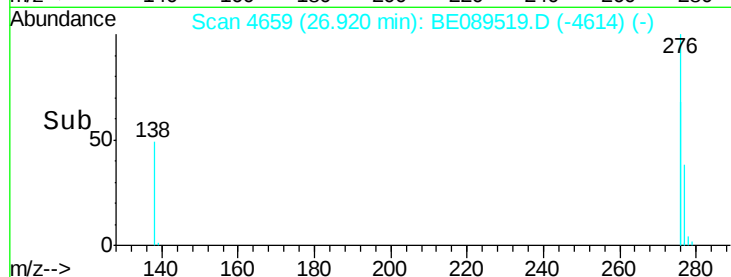
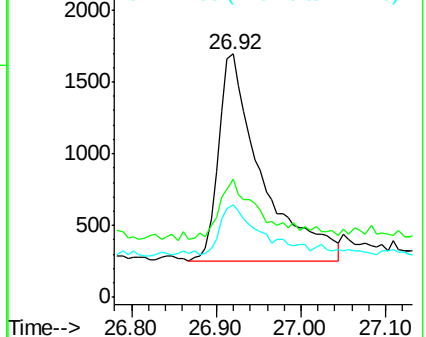
276 100

138 29.3 23.2 34.8

277 22.4 19.8 29.6



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



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.46 min Scan# 4377

Delta R.T. 0.00 min

Lab File: BE089519.D

Acq: 6 Feb 2015 2:53

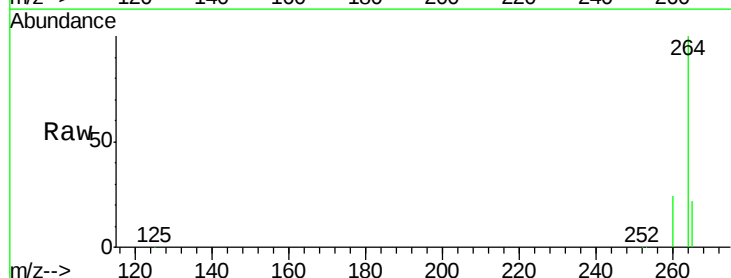
Tgt Ion:264 Resp: 496217

Ion Ratio Lower Upper

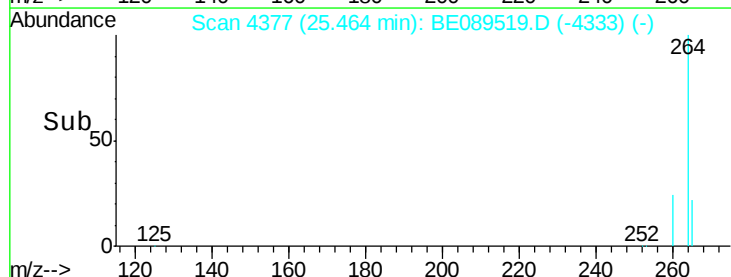
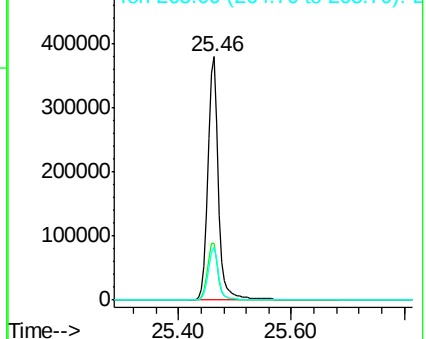
264 100

260 23.5 19.0 28.6

265 21.7 17.0 25.6



Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 0.12 ng

RT: 25.02 min Scan# 4279

Delta R.T. -0.00 min

Lab File: BE089519.D

Acq: 6 Feb 2015 2:53

Instrument :

BNA\_E

ClientSampleId :

YT-MW-07

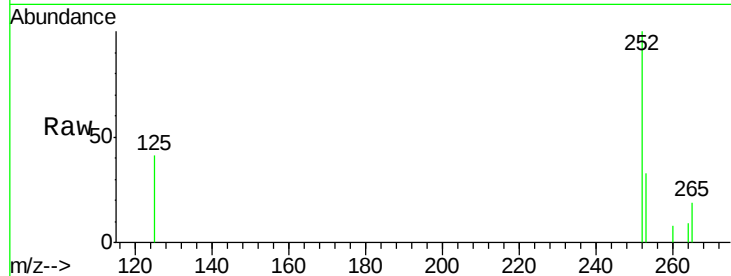
Tgt Ion:252 Resp: 1153

Ion Ratio Lower Upper

252 100

253 33.5 17.4 26.0#

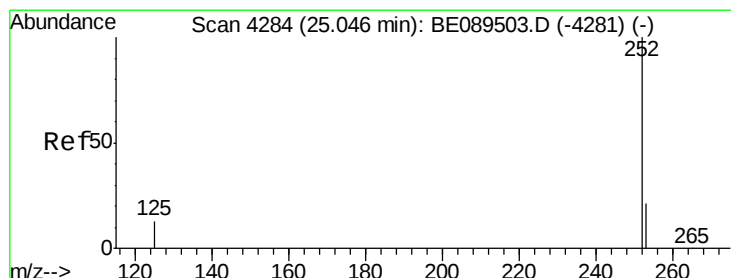
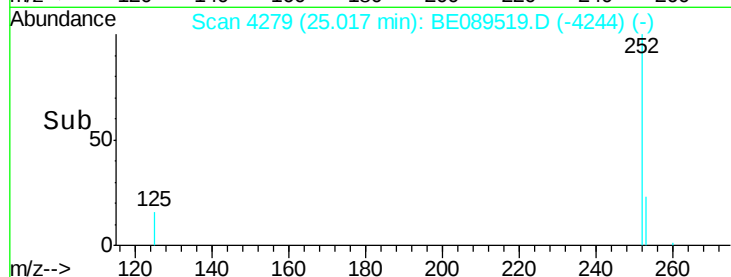
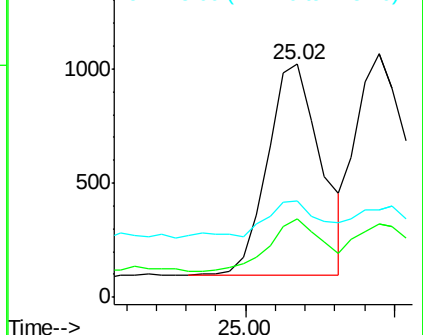
125 41.3 9.6 14.4#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#24

Benzo(k)fluoranthene

Concen: 0.01 ng

RT: 25.04 min Scan# 4285

Delta R.T. -0.00 min

Lab File: BE089519.D

Acq: 6 Feb 2015 2:53

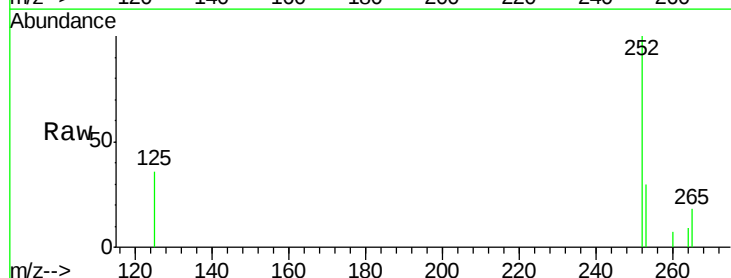
Tgt Ion:252 Resp: 1543

Ion Ratio Lower Upper

252 100

253 29.9 17.0 25.6#

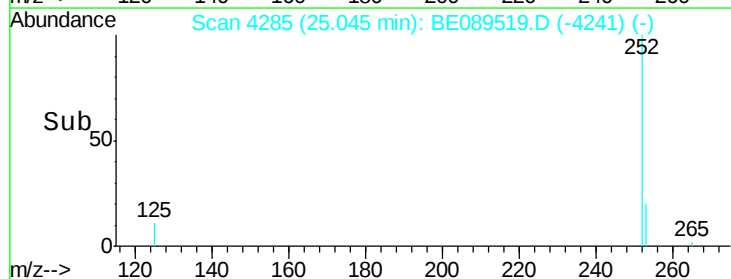
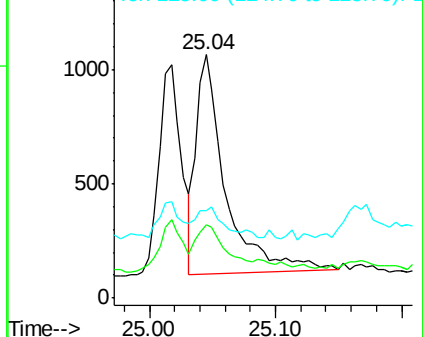
125 36.1 10.2 15.4#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 0.11 ng

RT: 25.39 min Scan# 4361

Delta R.T. -0.00 min

Lab File: BE089519.D

Acq: 6 Feb 2015 2:53

Instrument :

BNA\_E

ClientSampleId :

YT-MW-07

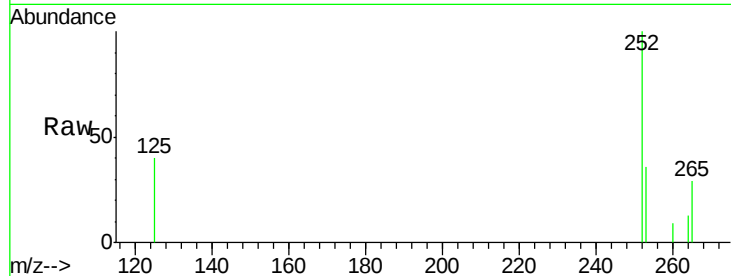
Tgt Ion: 252 Resp: 1082

Ion Ratio Lower Upper

252 100

253 36.3 17.8 26.6#

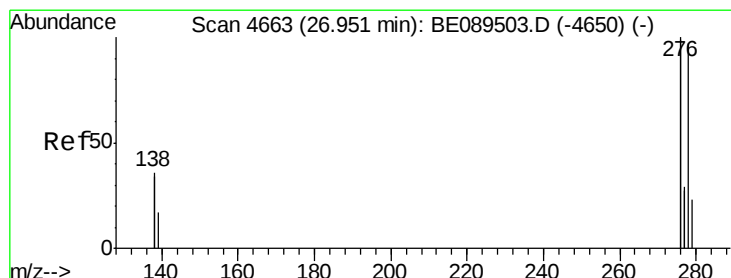
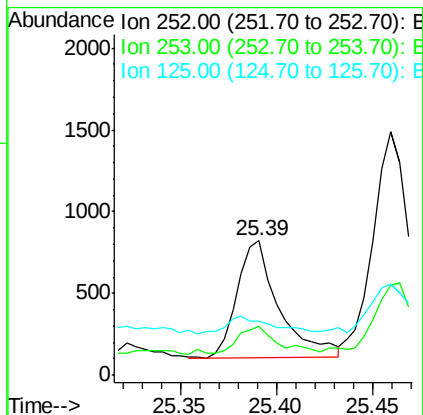
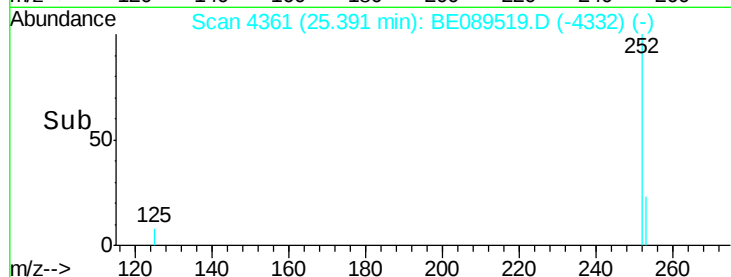
125 40.2 10.7 16.1#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#26

Dibenzo(a,h)anthracene

Concen: 0.07 ng

RT: 26.95 min Scan# 4664

Delta R.T. 0.00 min

Lab File: BE089519.D

Acq: 6 Feb 2015 2:53

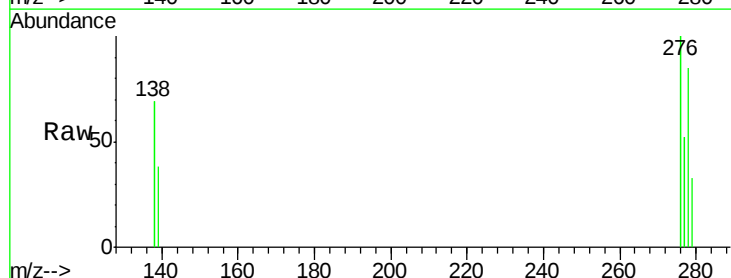
Tgt Ion: 278 Resp: 1006

Ion Ratio Lower Upper

278 100

139 44.4 14.6 22.0#

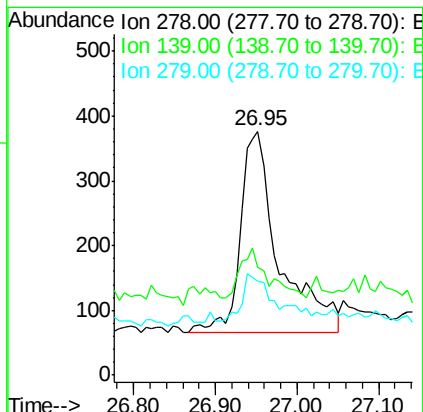
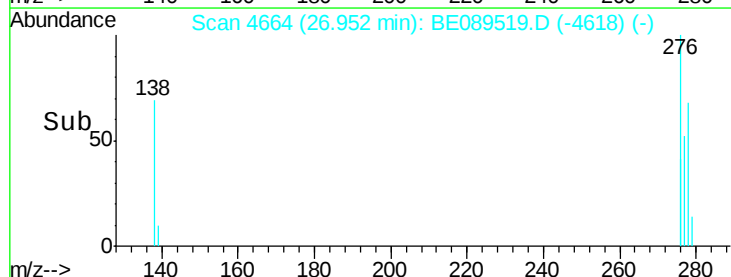
279 38.8 19.0 28.4#



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





#27

Benzo(g,h,i)perylene

Concen: 0.04 ng

RT: 27.35 min Scan# 4725

Delta R.T. -0.01 min

Lab File: BE089519.D

Acq: 6 Feb 2015 2:53

Instrument :

BNA\_E

ClientSampleId :

YT-MW-07

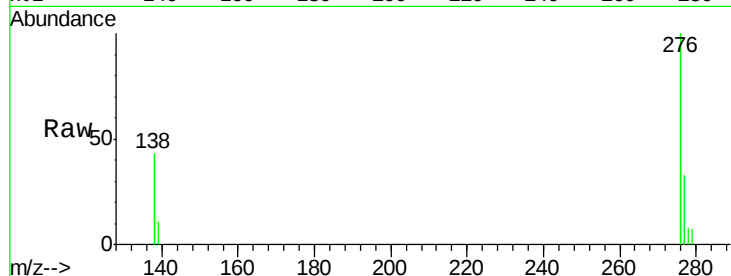
Tgt Ion: 276 Resp: 5253

Ion Ratio Lower Upper

276 100

277 32.6 18.6 28.0#

138 42.6 20.8 31.2#



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

