

Data Path : Z:\HPCHEM1\BNA E\DATA\BE082615\  
 Data File : BE090637.D  
 Acq On : 26 Aug 2015 15:03  
 Operator : UM/IZ  
 Sample : PB85188BS  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB85188BS

Quant Time: Aug 26 23:49:04 2015  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE081415.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 26 23:44:39 2015  
 Response via : Initial Calibration

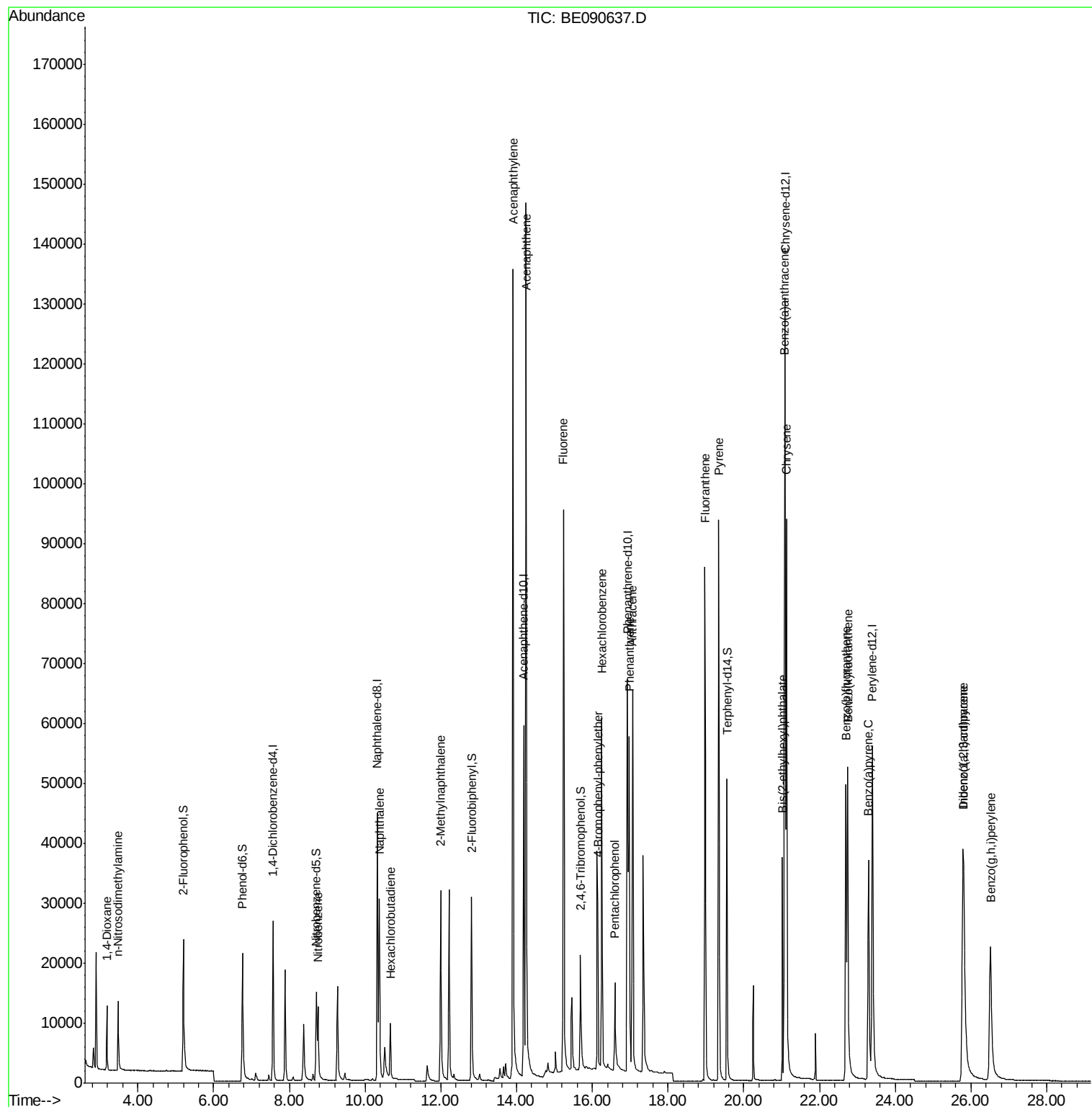
| Internal Standards             | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.57  | 152  | 13630    | 5.00 | ng    | 0.00     |
| 6) Naphthalene-d8              | 10.32 | 136  | 64543    | 5.00 | ng    | 0.00     |
| 12) Acenaphthene-d10           | 14.19 | 164  | 37092    | 5.00 | ng    | 0.00     |
| 18) Phenanthrene-d10           | 16.93 | 188  | 91786    | 5.00 | ng    | -0.02    |
| 25) Chrysene-d12               | 21.09 | 240  | 110033   | 5.00 | ng    | 0.00     |
| 32) Perylene-d12               | 23.40 | 264  | 91536    | 5.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |      |       |          |
| 4) 2-Fluorophenol              | 5.20  | 112  | 21154    | 5.37 | ng    | 0.00     |
| 5) Phenol-d6                   | 6.76  | 99   | 31607    | 5.46 | ng    | -0.01    |
| 7) Nitrobenzene-d5             | 8.72  | 82   | 16843    | 3.27 | ng    | 0.00     |
| 13) 2,4,6-Tribromophenol       | 15.69 | 330  | 10154    | 7.11 | ng    | -0.02    |
| 14) 2-Fluorobiphenyl           | 12.81 | 172  | 35993    | 3.25 | ng    | -0.01    |
| 27) Terphenyl-d14              | 19.55 | 244  | 62404    | 3.10 | ng    | 0.00     |
| Target Compounds               |       |      |          |      |       | Qvalue   |
| 2) 1,4-Dioxane                 | 3.18  | 88   | 5924     | 3.82 | ng    | 99       |
| 3) n-Nitrosodimethylamine      | 3.48  | 42   | 7543     | 3.21 | ng    | # 84     |
| 8) Nitrobenzene                | 8.76  | 77   | 16273    | 3.05 | ng    | 97       |
| 9) Naphthalene                 | 10.38 | 128  | 43526    | 2.97 | ng    | 98       |
| 10) Hexachlorobutadiene        | 10.67 | 225  | 6674     | 3.10 | ng    | 99       |
| 11) 2-Methylnaphthalene        | 12.00 | 142  | 29081    | 3.04 | ng    | 98       |
| 15) Acenaphthylene             | 13.91 | 152  | 203048   | 3.00 | ng    | 100      |
| 16) Acenaphthene               | 14.25 | 154  | 30775    | 3.02 | ng    | 86       |
| 17) Fluorene                   | 15.24 | 166  | 43679    | 3.50 | ng    | 97       |
| 19) 4-Bromophenyl-phenylether  | 16.14 | 248  | 11417    | 3.04 | ng    | # 76     |
| 20) Hexachlorobenzene          | 16.25 | 284  | 54159    | 3.26 | ng    | 97       |
| 21) Pentachlorophenol          | 16.60 | 266  | 9073     | 4.58 | ng    | 93       |
| 22) Phenanthrene               | 16.98 | 178  | 76953    | 3.19 | ng    | 100      |
| 23) Anthracene                 | 17.07 | 178  | 74782    | 3.37 | ng    | 100      |
| 24) Fluoranthene               | 18.98 | 202  | 86558    | 3.38 | ng    | 99       |
| 26) Pyrene                     | 19.34 | 202  | 94634    | 3.01 | ng    | 99       |
| 28) Benzo(a)anthracene         | 21.07 | 228  | 84241    | 2.91 | ng    | 99       |
| 29) Chrysene                   | 21.13 | 228  | 92240    | 3.12 | ng    | 99       |
| 30) Bis(2-ethylhexyl)phthalate | 21.02 | 149  | 31202    | 1.89 | ng    | 99       |
| 31) Indeno(1,2,3-cd)pyrene     | 25.78 | 276  | 74460    | 2.67 | ng    | # 92     |
| 33) Benzo(b)fluoranthene       | 22.70 | 252  | 71634    | 3.30 | ng    | 99       |
| 34) Benzo(k)fluoranthene       | 22.74 | 252  | 84354    | 3.43 | ng    | 99       |
| 35) Benzo(a)pyrene             | 23.29 | 252  | 70576    | 3.48 | ng    | 98       |
| 36) Dibenzo(a,h)anthracene     | 25.81 | 278  | 58666    | 3.00 | ng    | 97       |
| 37) Benzo(g,h,i)perylene       | 26.52 | 276  | 66244    | 3.10 | ng    | 96       |

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

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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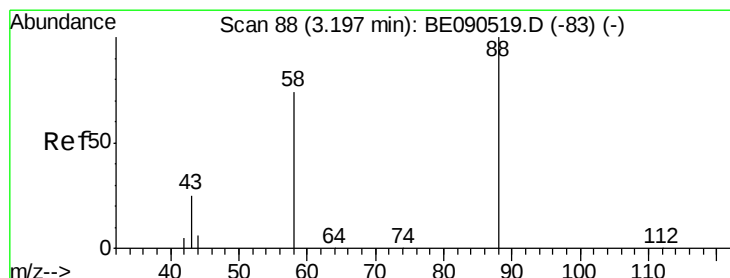
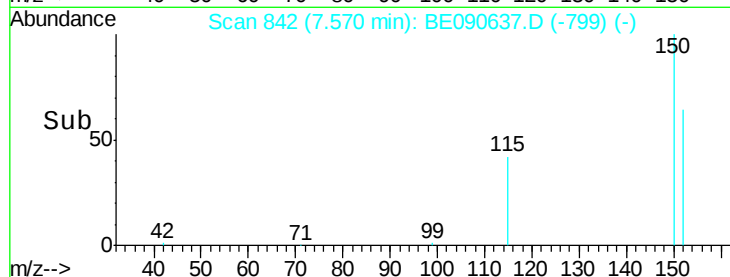
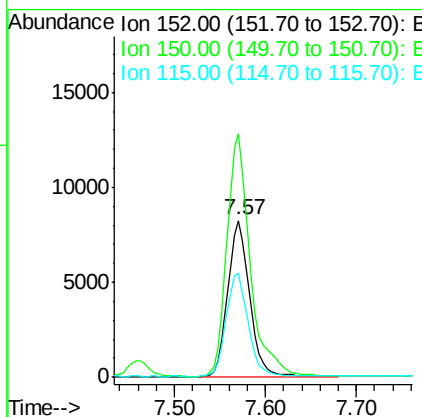
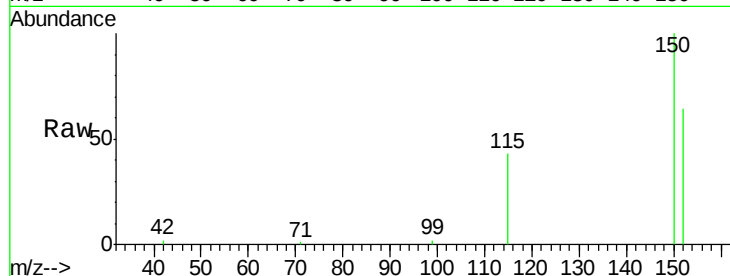




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 5.00 ng  
 RT: 7.57 min Scan# 842  
 Delta R.T. -0.00 min  
 Lab File: BE090637.D  
 Acq: 26 Aug 2015 15:03

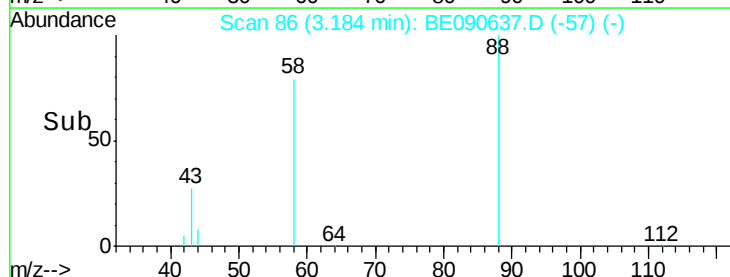
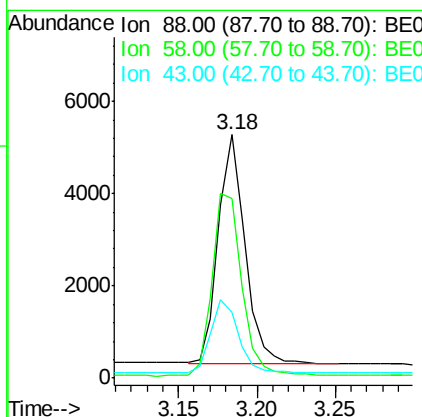
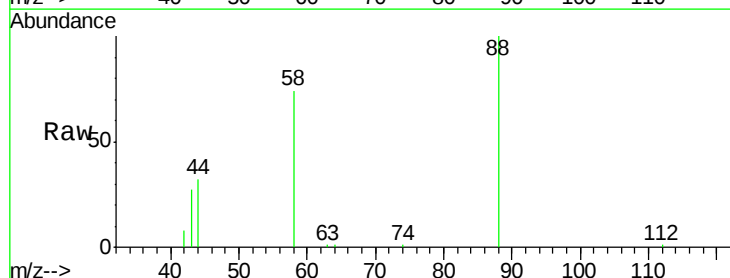
Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB85188BS

Tot Ion:152 Resp: 13630  
 Ion Ratio Lower Upper  
 152 100  
 150 155.3 123.0 184.4  
 115 66.3 48.9 73.3



#2  
 1,4-Dioxane  
 Concen: 3.82 ng  
 RT: 3.18 min Scan# 86  
 Delta R.T. -0.01 min  
 Lab File: BE090637.D  
 Acq: 26 Aug 2015 15:03

Tgt Ion: 88 Resp: 5924  
 Ion Ratio Lower Upper  
 88 100  
 58 87.8 70.0 105.0  
 43 33.6 28.4 42.6





#3

n-Nitrosodimethylamine

Concen: 3.21 ng

RT: 3.48 min Scan# 129

Delta R.T. -0.01 min

Lab File: BE090637.D

Acq: 26 Aug 2015 15:03

Instrument :

BNA\_E

ClientSampleId :

PB85188BS

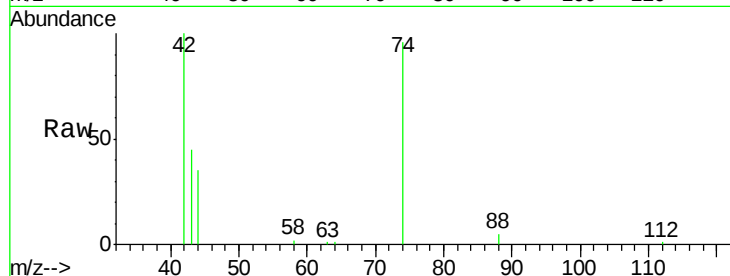
Tot Ion: 42 Resp: 7543

Ion Ratio Lower Upper

42 100

74 110.8 75.2 112.8

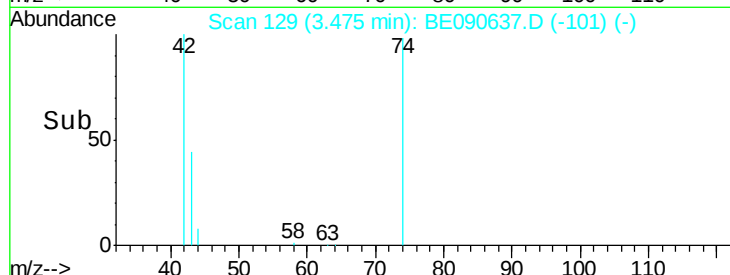
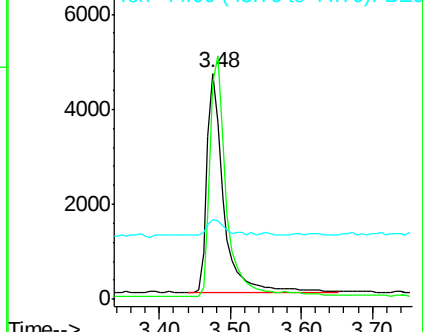
44 8.6 8.7 13.1#



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 5.37 ng

RT: 5.20 min Scan# 384

Delta R.T. -0.01 min

Lab File: BE090637.D

Acq: 26 Aug 2015 15:03

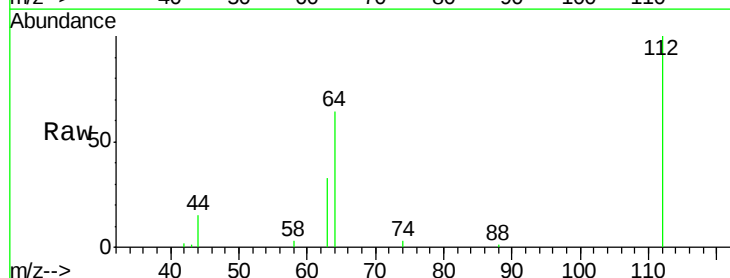
Tgt Ion: 112 Resp: 21154

Ion Ratio Lower Upper

112 100

64 70.5 37.1 55.7#

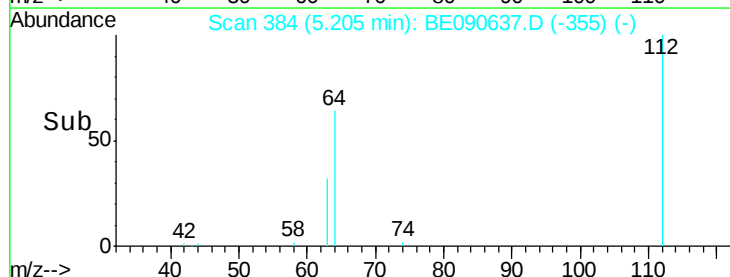
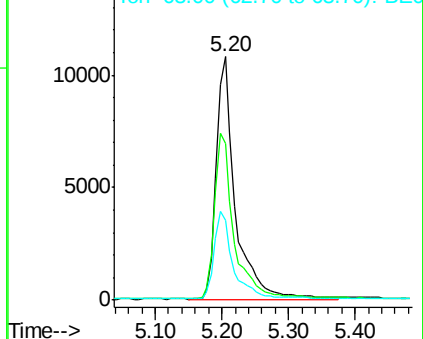
63 36.5 19.5 29.3#

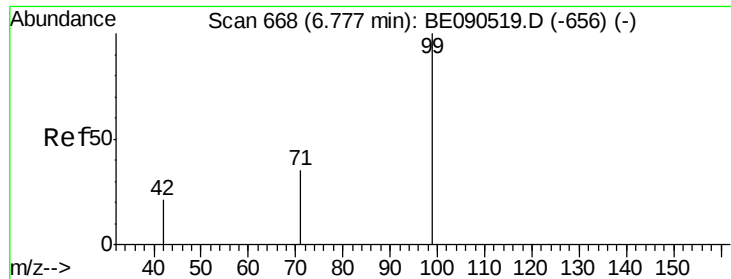


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 5.46 ng

RT: 6.76 min Scan# 664

Delta R.T. -0.01 min

Lab File: BE090637.D

Acq: 26 Aug 2015 15:03

Instrument :

BNA\_E

ClientSampleId :

PB85188BS

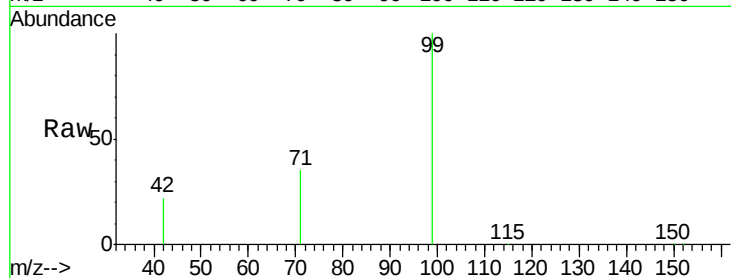
Tot Ion: 99 Resp: 31607

Ion Ratio Lower Upper

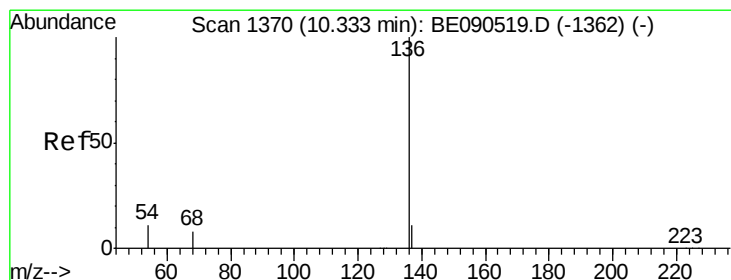
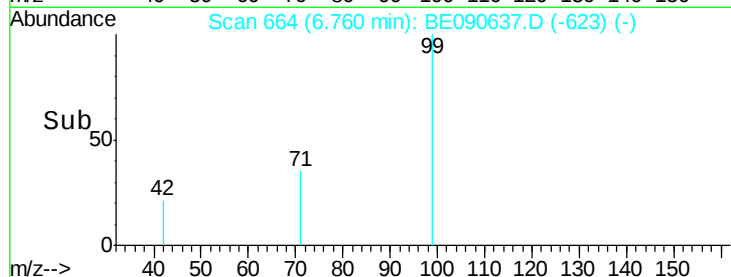
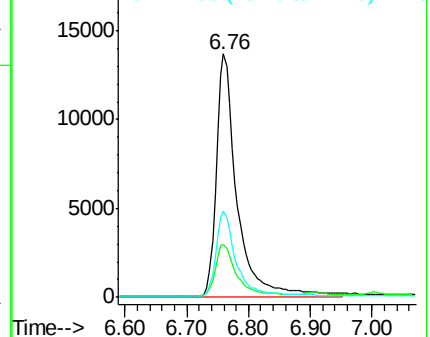
99 100

42 21.2 18.2 27.4

71 34.5 27.4 41.0



Abundance Ion 99.00 (98.70 to 99.70): BE0  
Ion 42.00 (41.70 to 42.70): BE0  
Ion 71.00 (70.70 to 71.70): BE0



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.32 min Scan# 1369

Delta R.T. -0.01 min

Lab File: BE090637.D

Acq: 26 Aug 2015 15:03

Tgt Ion: 136 Resp: 64543

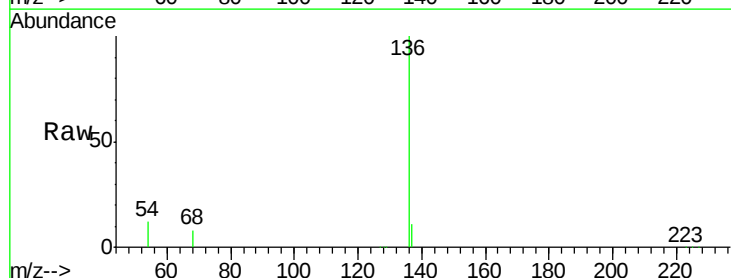
Ion Ratio Lower Upper

136 100

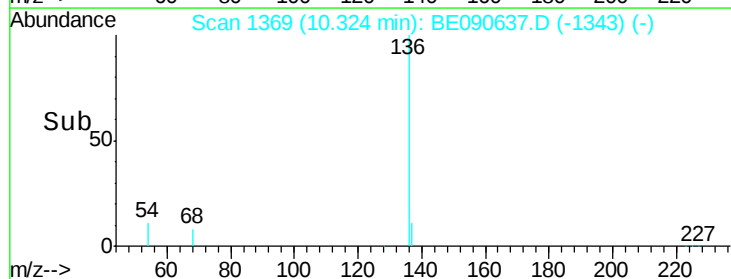
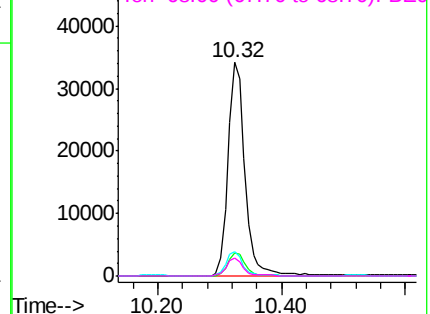
137 10.9 8.7 13.1

54 11.6 9.4 14.0

68 8.3 6.5 9.7



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





#7

Nitrobenzene-d5

Concen: 3.27 ng

RT: 8.72 min Scan# 1090

Delta R.T. -0.01 min

Lab File: BE090637.D

Acq: 26 Aug 2015 15:03

Instrument :

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ClientSampleId :

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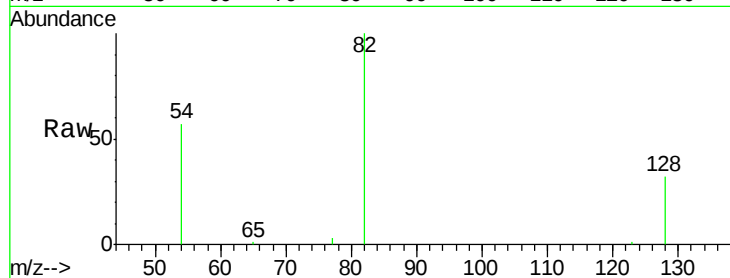
Tot Ion: 82 Resp: 16843

Ion Ratio Lower Upper

82 100

128 32.3 25.0 37.6

54 57.2 48.8 73.2



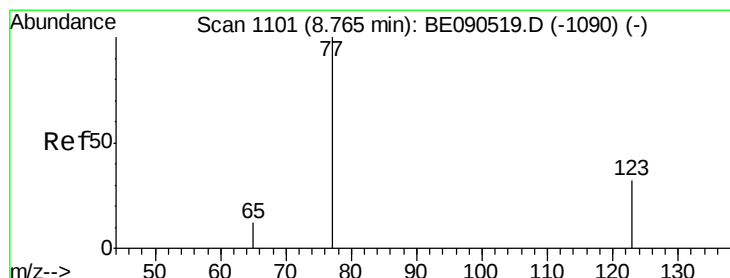
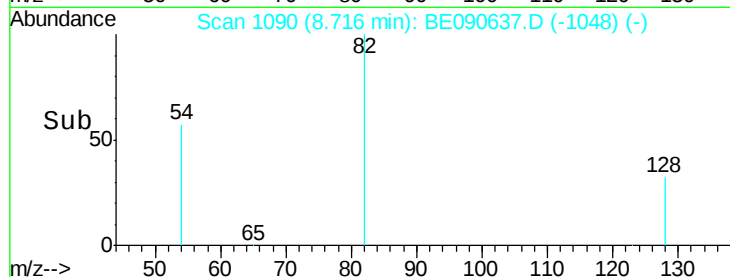
Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0

8.72

Time-->



#8

Nitrobenzene

Concen: 3.05 ng

RT: 8.76 min Scan# 1099

Delta R.T. -0.01 min

Lab File: BE090637.D

Acq: 26 Aug 2015 15:03

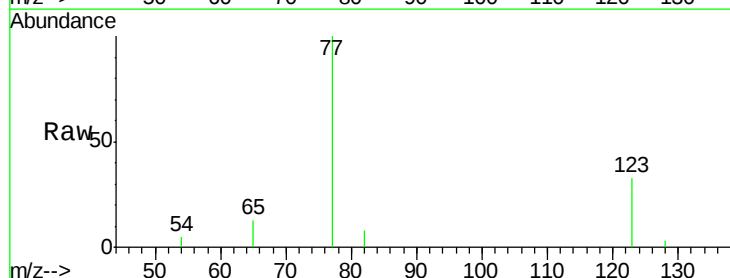
Tgt Ion: 77 Resp: 16273

Ion Ratio Lower Upper

77 100

123 33.0 25.1 37.7

65 12.5 9.3 13.9



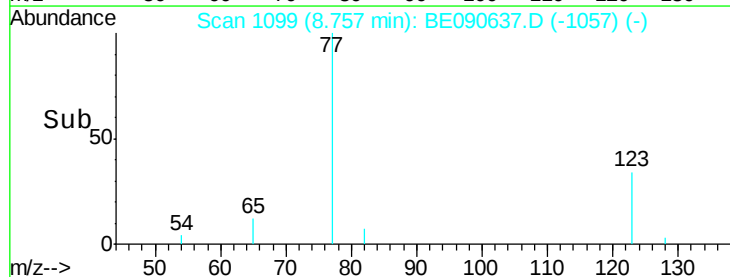
Abundance Ion 77.00 (76.70 to 77.70): BE0

Ion 123.00 (122.70 to 123.70): BE0

Ion 65.00 (64.70 to 65.70): BE0

8.76

Time-->





#9

Naphthalene

Concen: 2.97 ng

RT: 10.38 min Scan# 1376

Delta R.T. 0.00 min

Lab File: BE090637.D

Acq: 26 Aug 2015 15:03

Instrument :

BNA\_E

ClientSampleId :

PB85188BS

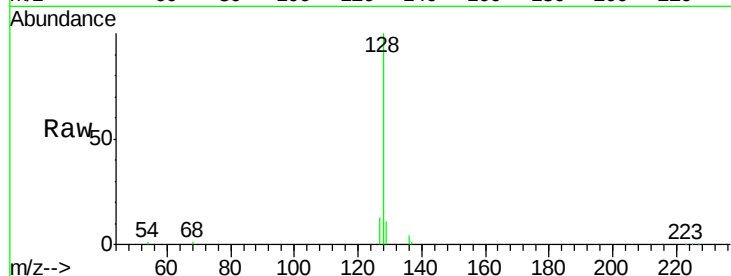
Tot Ion:128 Resp: 43526

Ion Ratio Lower Upper

128 100

129 11.2 9.8 14.6

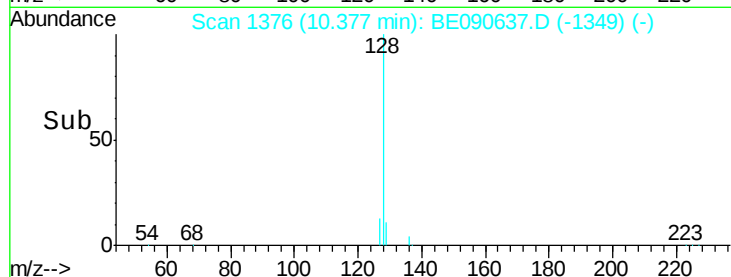
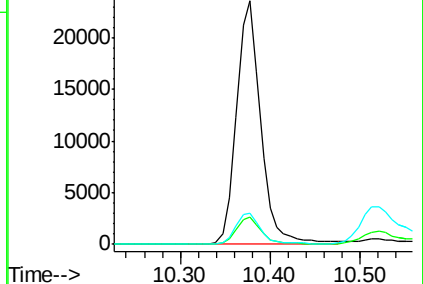
127 13.0 10.6 16.0



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



#10

Hexachlorobutadiene

Concen: 3.10 ng

RT: 10.67 min Scan# 1415

Delta R.T. 0.00 min

Lab File: BE090637.D

Acq: 26 Aug 2015 15:03

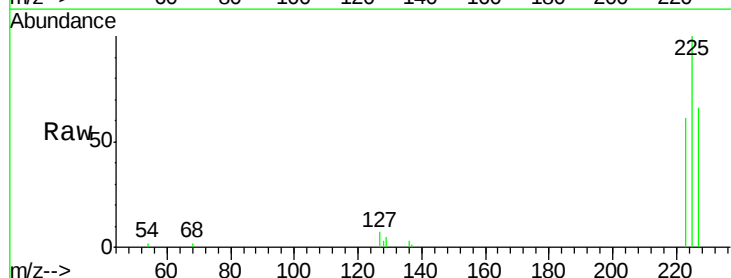
Tgt Ion:225 Resp: 6674

Ion Ratio Lower Upper

225 100

223 62.8 50.6 75.8

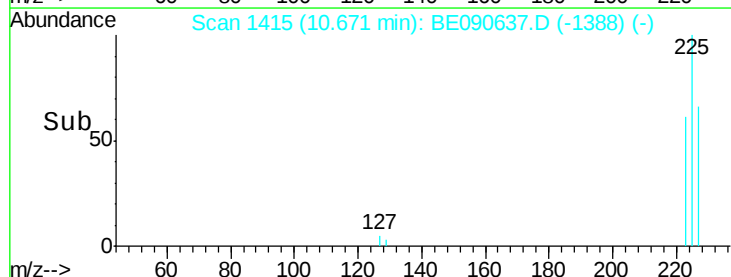
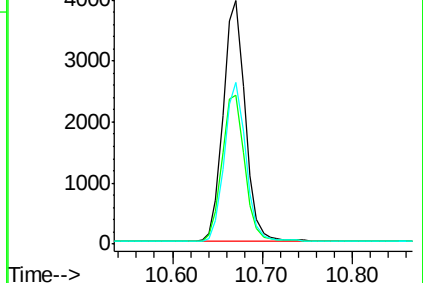
227 64.7 50.7 76.1



Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene

Concen: 3.04 ng

RT: 12.00 min Scan# 1647

Delta R.T. -0.01 min

Lab File: BE090637.D

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Instrument :

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ClientSampleId :

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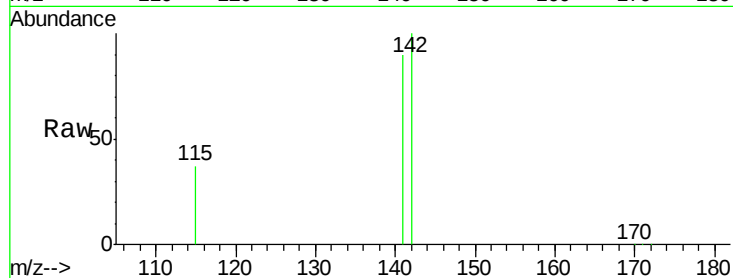
Tot Ion:142 Resp: 29081

Ion Ratio Lower Upper

142 100

141 89.8 72.6 109.0

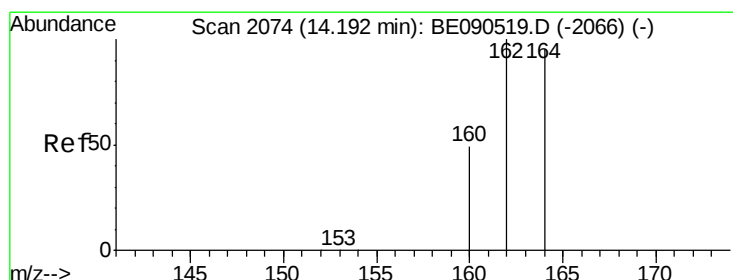
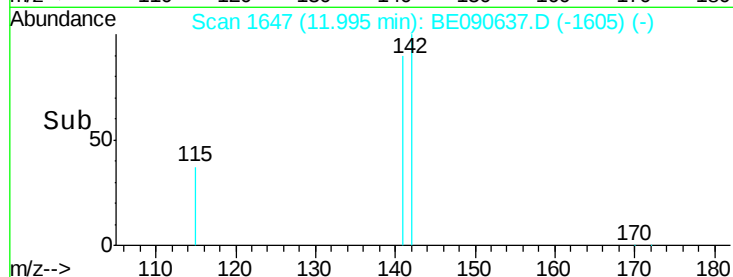
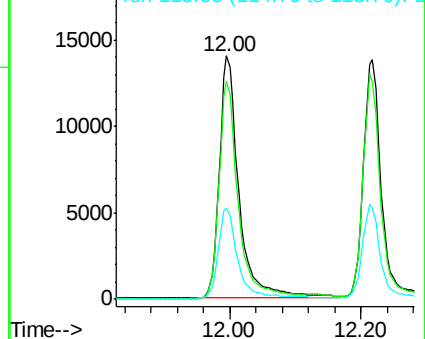
115 37.4 31.6 47.4



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



#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.19 min Scan# 2073

Delta R.T. -0.01 min

Lab File: BE090637.D

Acq: 26 Aug 2015 15:03

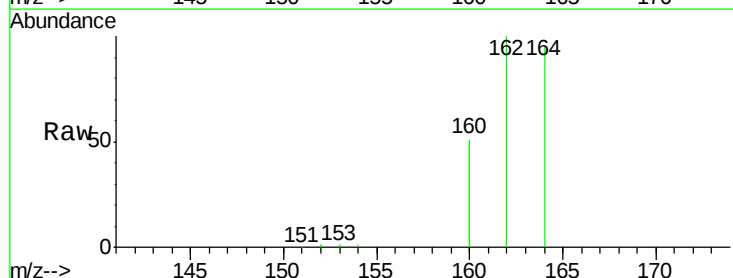
Tgt Ion:164 Resp: 37092

Ion Ratio Lower Upper

164 100

162 104.9 81.8 122.8

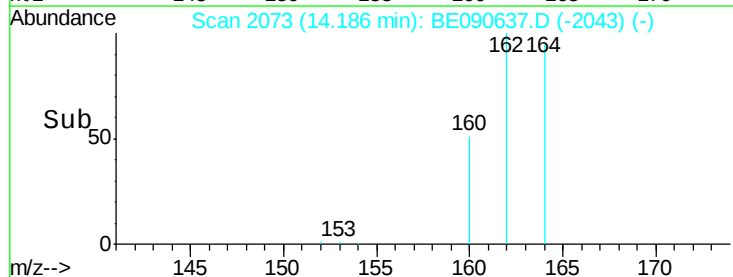
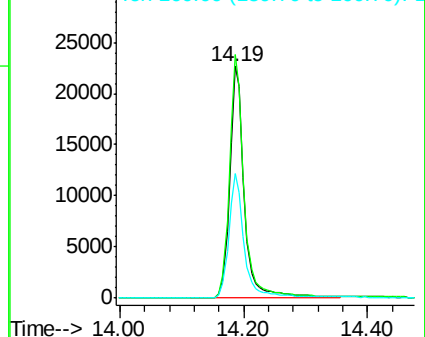
160 53.7 44.2 66.4



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

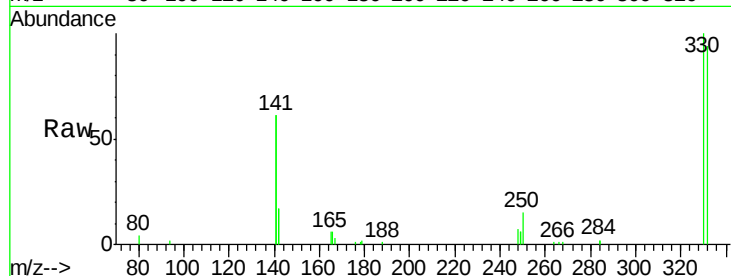




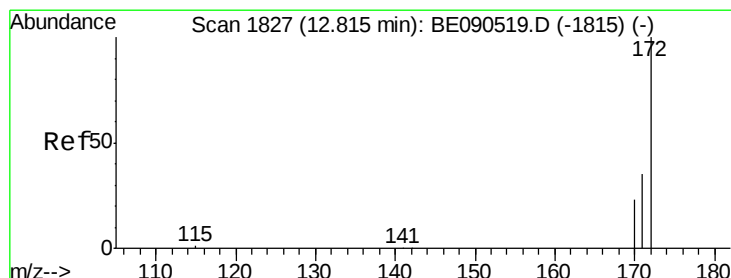
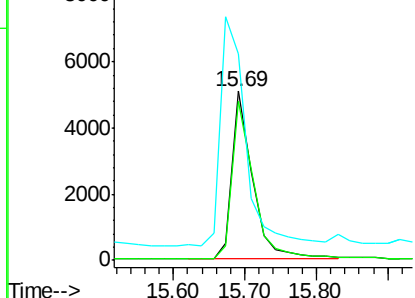
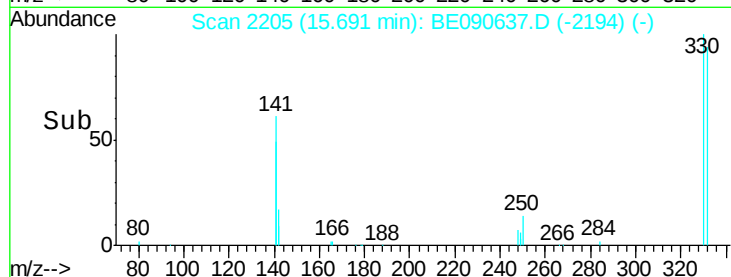
#13  
 2,4,6-Tribromophenol  
 Concen: 7.11 ng  
 RT: 15.69 min Scan# 2205  
 Delta R.T. -0.02 min  
 Lab File: BE090637.D  
 Acq: 26 Aug 2015 15:03

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB85188BS

Tot Ion:330 Resp: 10154  
 Ion Ratio Lower Upper  
 330 100  
 332 96.5 75.8 113.6  
 141 168.2 114.4 171.6

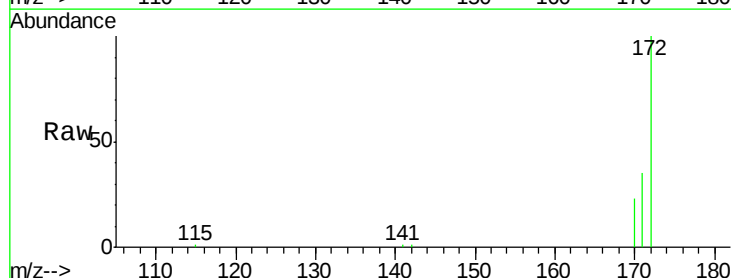


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

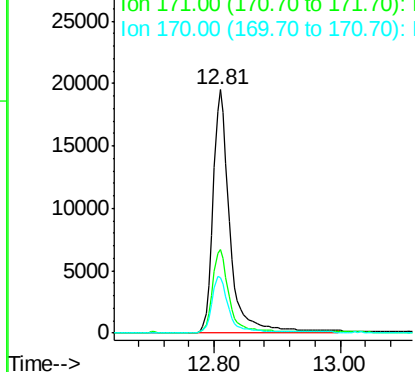
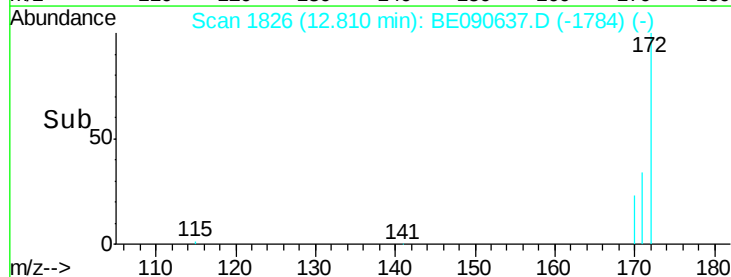


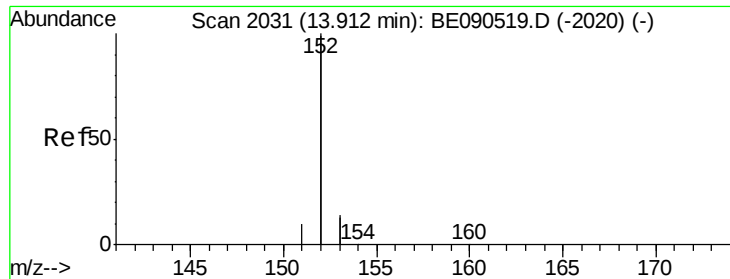
#14  
 2-Fluorobiphenyl  
 Concen: 3.25 ng  
 RT: 12.81 min Scan# 1826  
 Delta R.T. -0.01 min  
 Lab File: BE090637.D  
 Acq: 26 Aug 2015 15:03

Tgt Ion:172 Resp: 35993  
 Ion Ratio Lower Upper  
 172 100  
 171 34.5 28.5 42.7  
 170 22.9 19.8 29.8



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





#15

Acenaphthylene

Concen: 3.00 ng

RT: 13.91 min Scan# 2030

Delta R.T. -0.01 min

Lab File: BE090637.D

Acq: 26 Aug 2015 15:03

Instrument :

BNA\_E

ClientSampleId :

PB85188BS

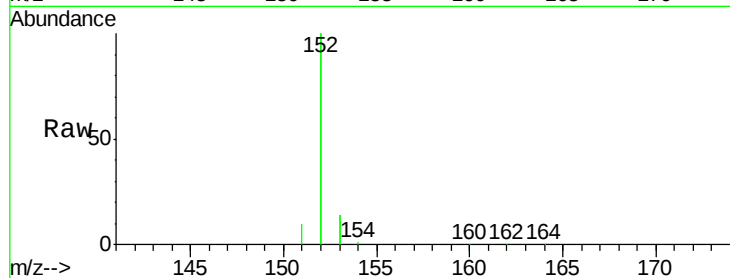
Tot Ion:152 Resp: 203048

Ion Ratio Lower Upper

152 100

151 4.8 3.8 5.8

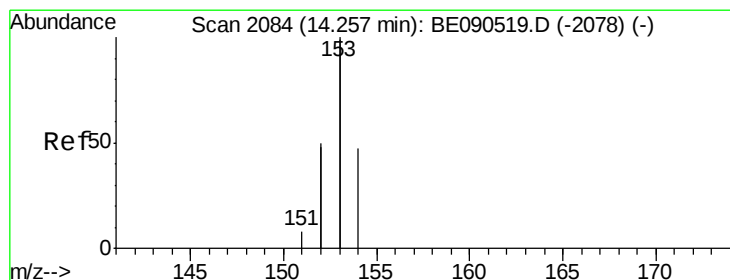
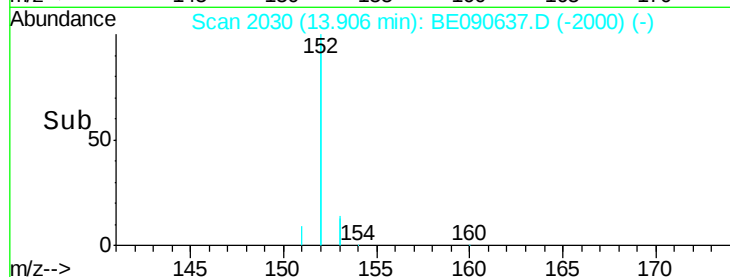
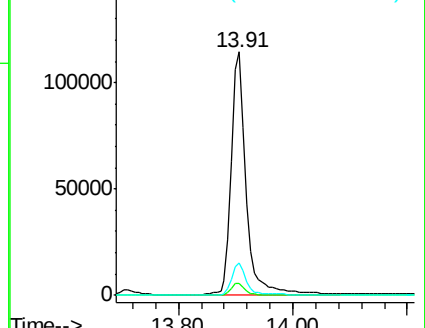
153 13.0 10.3 15.5



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



#16

Acenaphthene

Concen: 3.02 ng

RT: 14.25 min Scan# 2083

Delta R.T. -0.01 min

Lab File: BE090637.D

Acq: 26 Aug 2015 15:03

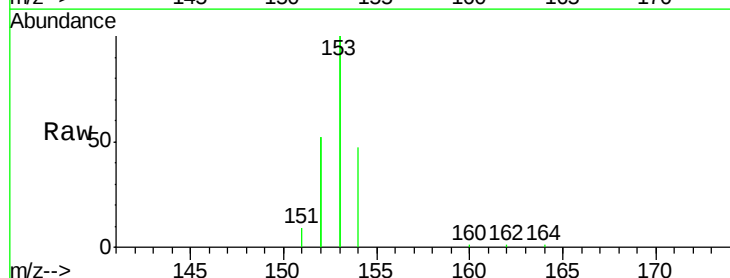
Tgt Ion:154 Resp: 30775

Ion Ratio Lower Upper

154 100

153 453.0 376.2 564.2

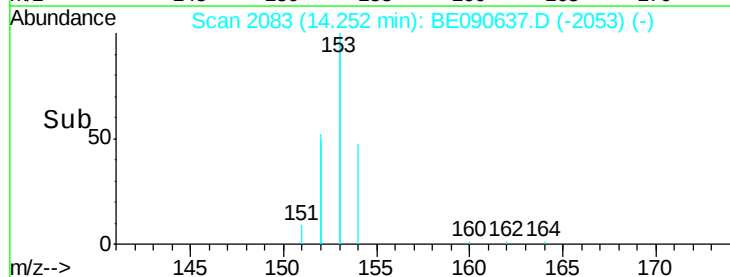
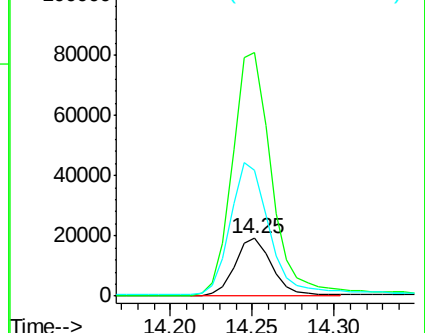
152 243.8 235.0 352.4

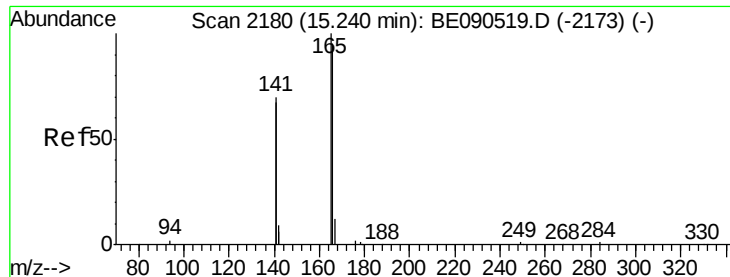


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

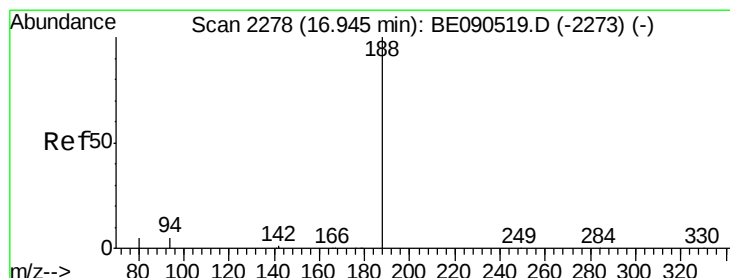
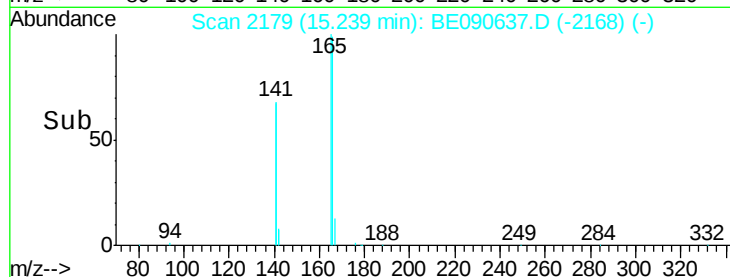
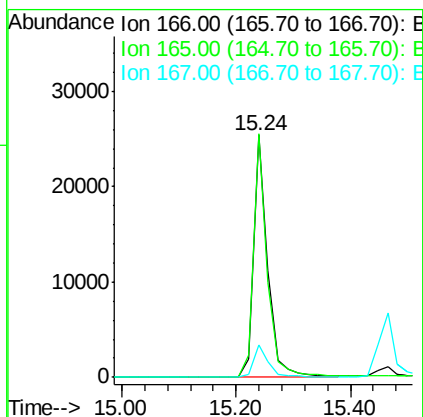
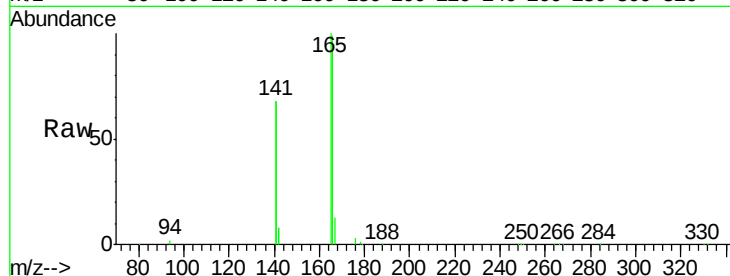




#17  
**Fluorene**  
 Concen: 3.50 ng  
 RT: 15.24 min Scan# 2179  
 Delta R.T. -0.02 min  
 Lab File: BE090637.D  
 Acq: 26 Aug 2015 15:03

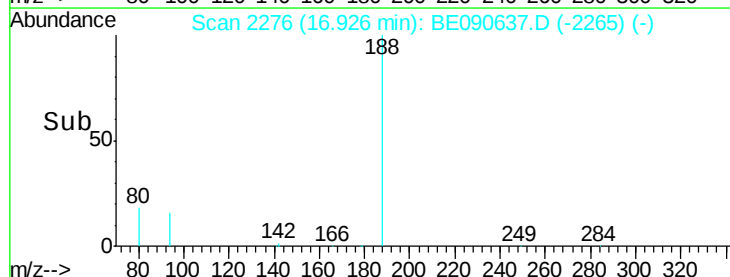
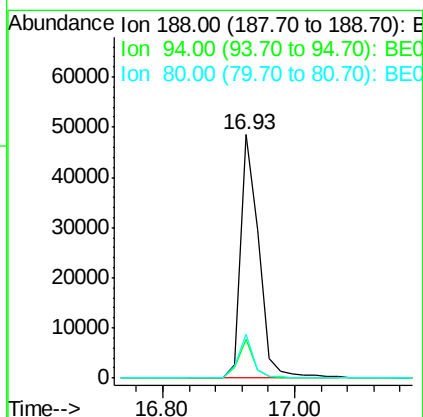
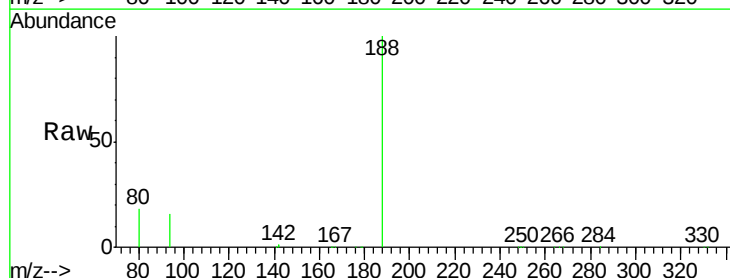
Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB85188BS

Tot Ion:166 Resp: 43679  
 Ion Ratio Lower Upper  
 166 100  
 165 98.7 81.5 122.3  
 167 13.7 11.4 17.0



#18  
**Phenanthrene-d10**  
 Concen: 5.00 ng  
 RT: 16.93 min Scan# 2276  
 Delta R.T. -0.02 min  
 Lab File: BE090637.D  
 Acq: 26 Aug 2015 15:03

Tgt Ion:188 Resp: 91786  
 Ion Ratio Lower Upper  
 188 100  
 94 16.0 5.7 8.5#  
 80 17.8 5.8 8.8#





#19

4-Bromophenyl-phenylether

Concen: 3.04 ng

RT: 16.14 min Scan# 2231

Delta R.T. 0.00 min

Lab File: BE090637.D

Acq: 26 Aug 2015 15:03

Instrument :

BNA\_E

ClientSampleId :

PB85188BS

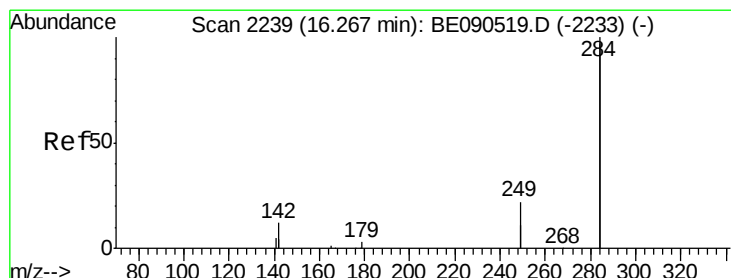
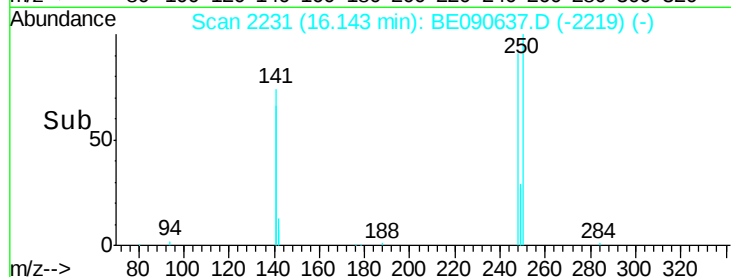
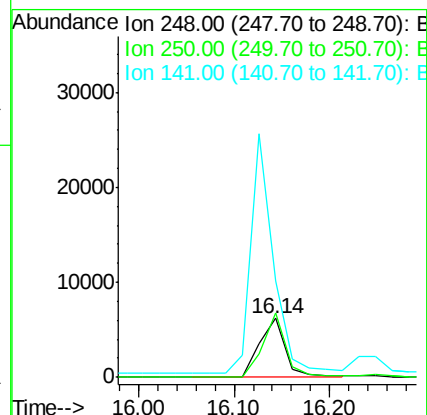
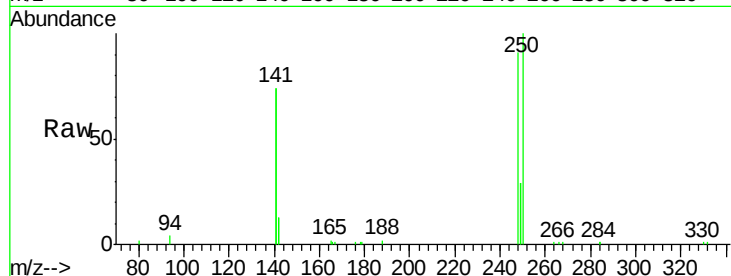
Tot Ion:248 Resp: 11417

Ion Ratio Lower Upper

248 100

250 98.7 79.0 118.6

141 362.7 239.5 359.3#



#20

Hexachlorobenzene

Concen: 3.26 ng

RT: 16.25 min Scan# 2237

Delta R.T. 0.00 min

Lab File: BE090637.D

Acq: 26 Aug 2015 15:03

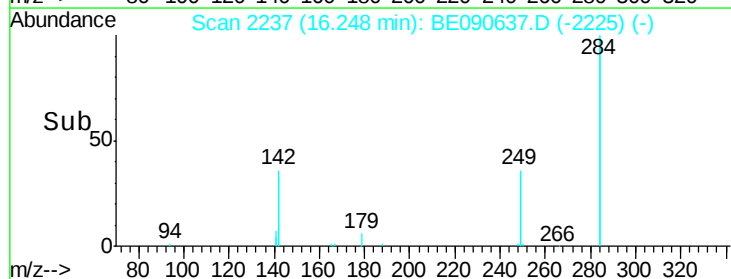
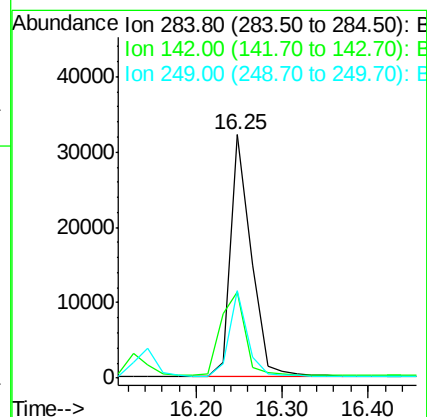
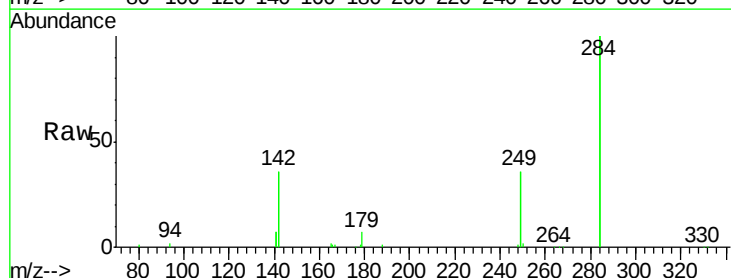
Tgt Ion:284 Resp: 54159

Ion Ratio Lower Upper

284 100

142 40.5 30.1 45.1

249 31.4 25.7 38.5

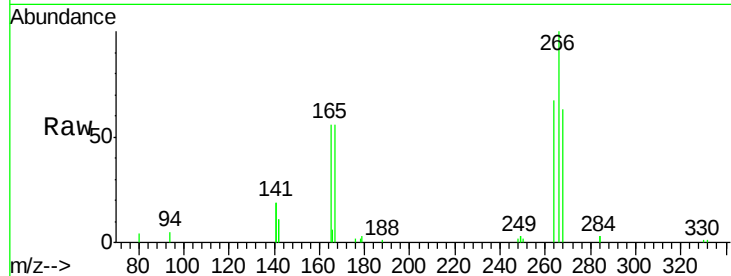




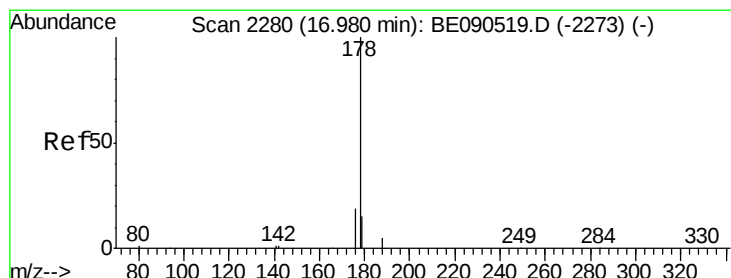
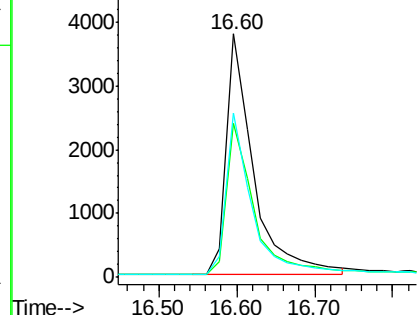
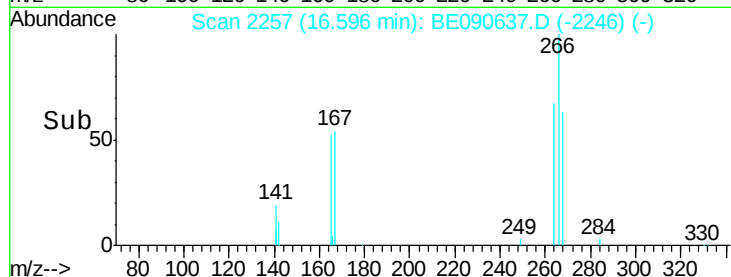
#21  
 Pentachlorophenol  
 Concen: 4.58 ng  
 RT: 16.60 min Scan# 2257  
 Delta R.T. -0.02 min  
 Lab File: BE090637.D  
 Acq: 26 Aug 2015 15:03

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB85188BS

Tot Ion:266 Resp: 9073  
 Ion Ratio Lower Upper  
 266 100  
 268 63.3 58.5 87.7  
 264 67.4 56.0 84.0

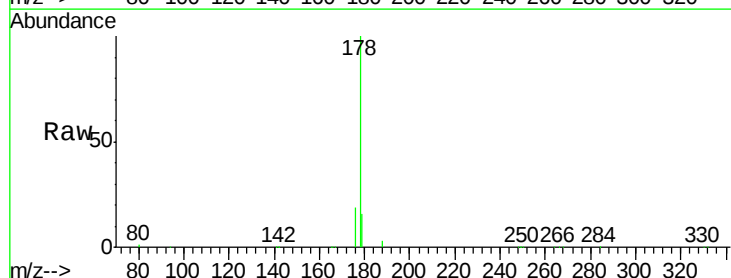


Abundance Ion 265.70 (265.40 to 266.40): E  
 Ion 268.00 (267.70 to 268.70): E  
 Ion 264.00 (263.70 to 264.70): E

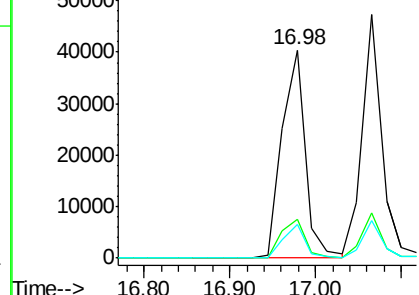
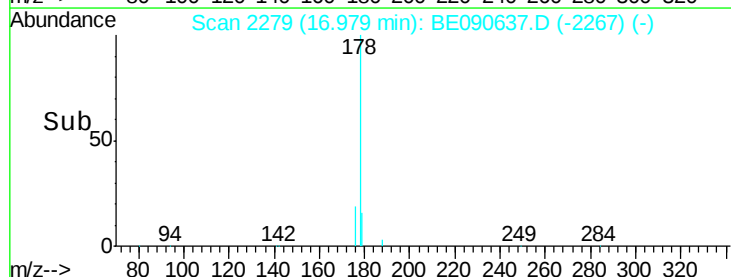


#22  
 Phenanthrene  
 Concen: 3.19 ng  
 RT: 16.98 min Scan# 2279  
 Delta R.T. 0.00 min  
 Lab File: BE090637.D  
 Acq: 26 Aug 2015 15:03

Tgt Ion:178 Resp: 76953  
 Ion Ratio Lower Upper  
 178 100  
 176 19.5 15.4 23.2  
 179 15.4 12.5 18.7



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





#23

Anthracene

Concen: 3.37 ng

RT: 17.07 min Scan# 2284

Delta R.T. 0.00 min

Lab File: BE090637.D

Acq: 26 Aug 2015 15:03

Instrument :

BNA\_E

ClientSampleId :

PB85188BS

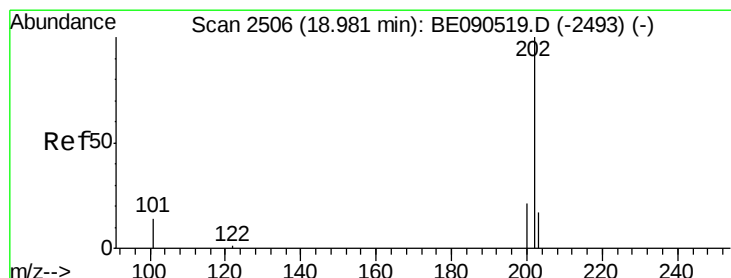
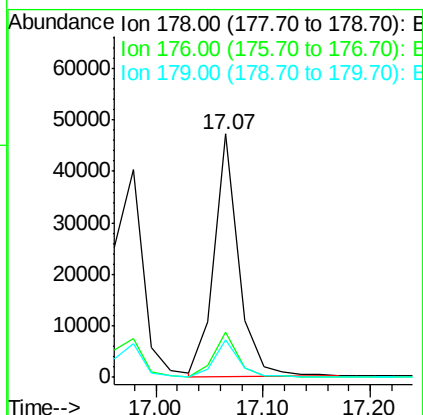
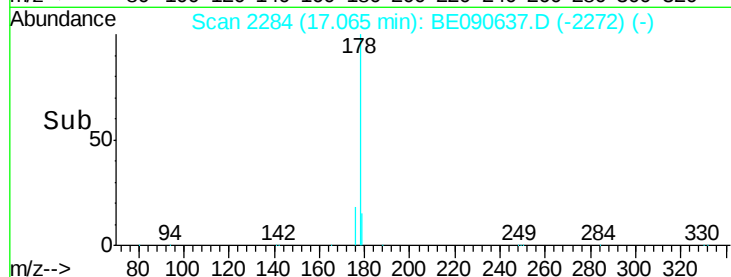
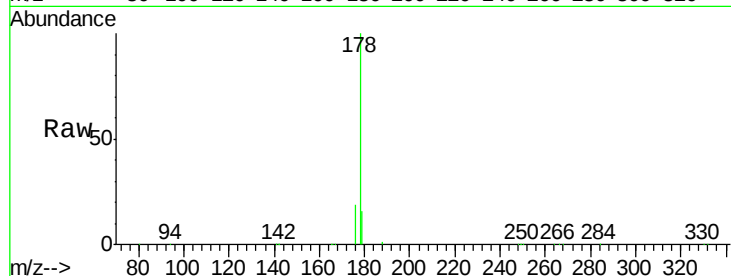
Tot Ion:178 Resp: 74782

Ion Ratio Lower Upper

178 100

176 18.6 14.9 22.3

179 15.3 12.2 18.4



#24

Fluoranthene

Concen: 3.38 ng

RT: 18.98 min Scan# 2504

Delta R.T. -0.01 min

Lab File: BE090637.D

Acq: 26 Aug 2015 15:03

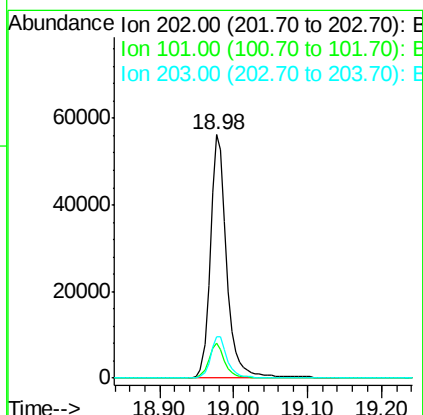
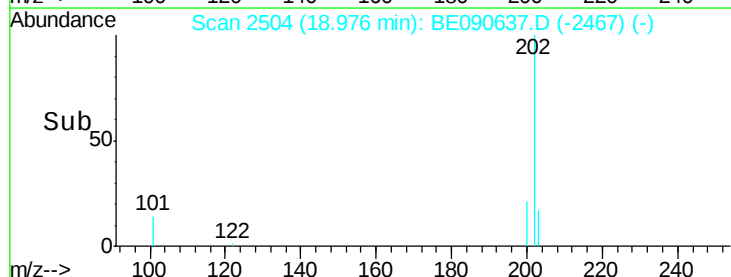
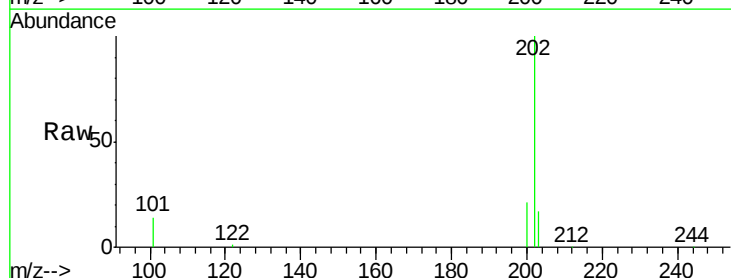
Tgt Ion:202 Resp: 86558

Ion Ratio Lower Upper

202 100

101 13.8 10.3 15.5

203 17.2 13.7 20.5





#25

Chrysene-d12

Concen: 5.00 ng

RT: 21.09 min Scan# 2864

Delta R.T. 0.00 min

Lab File: BE090637.D

Acq: 26 Aug 2015 15:03

Instrument :

BNA\_E

ClientSampleId :

PB85188BS

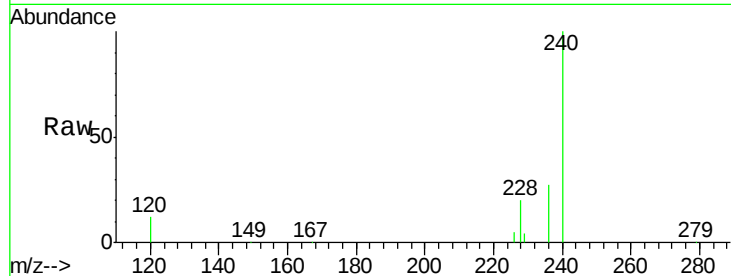
Tot Ion:240 Resp: 110033

Ion Ratio Lower Upper

240 100

120 12.0 8.3 12.5

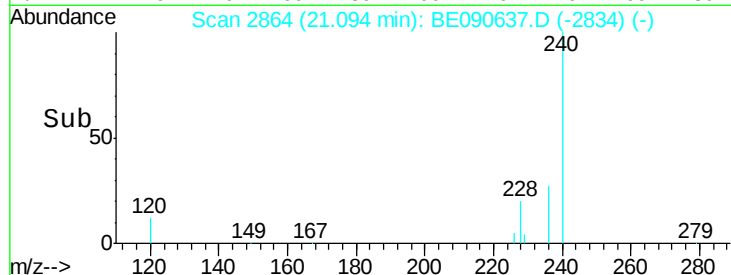
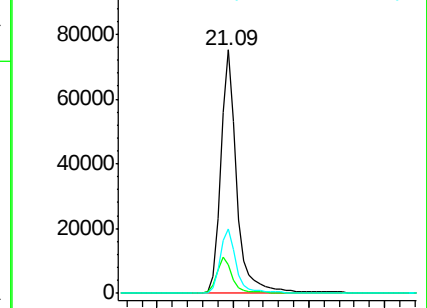
236 26.7 21.0 31.4



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



#26

Pyrene

Concen: 3.01 ng

RT: 19.34 min Scan# 2573

Delta R.T. 0.00 min

Lab File: BE090637.D

Acq: 26 Aug 2015 15:03

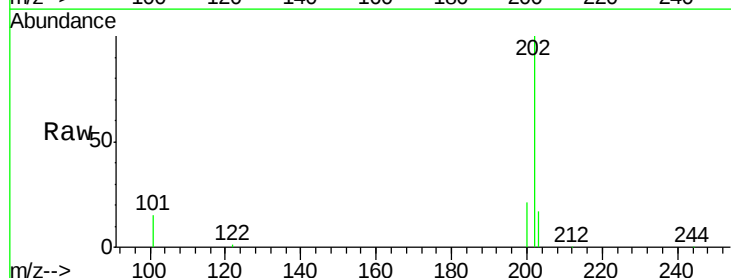
Tgt Ion:202 Resp: 94634

Ion Ratio Lower Upper

202 100

200 21.2 16.7 25.1

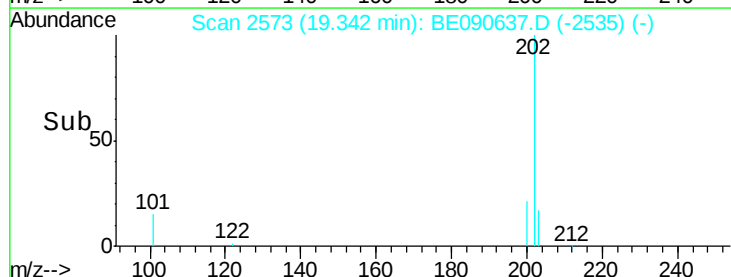
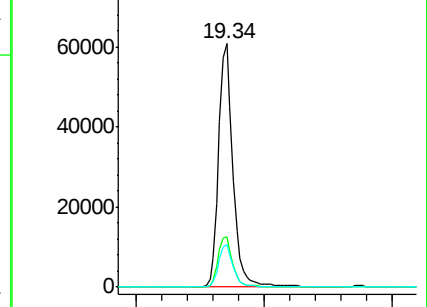
203 17.7 13.8 20.8

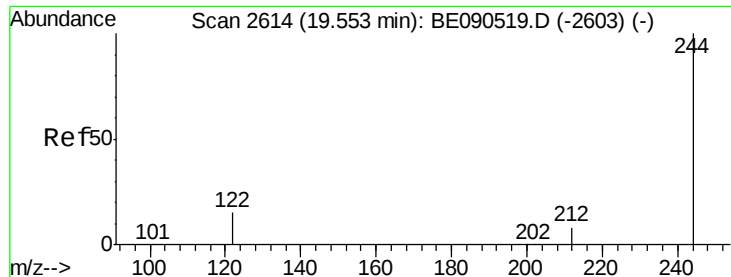


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#27

Terphenyl-d14

Concen: 3.10 ng

RT: 19.55 min Scan# 2613

Delta R.T. 0.00 min

Lab File: BE090637.D

Acq: 26 Aug 2015 15:03

Instrument :

BNA\_E

ClientSampled :

PB85188BS

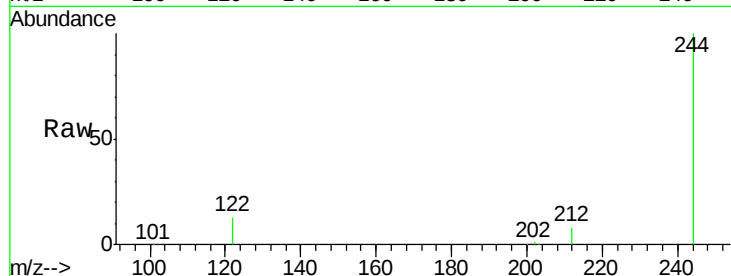
Tot Ion:244 Resp: 62404

Ion Ratio Lower Upper

244 100

212 8.2 6.6 9.8

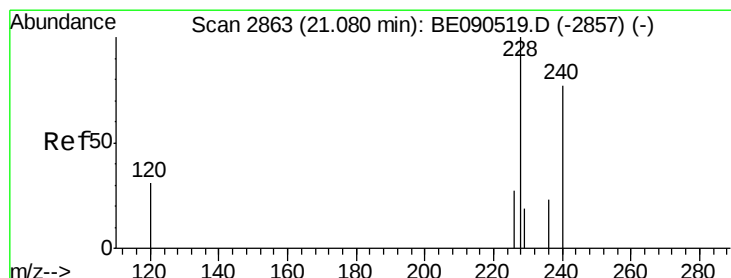
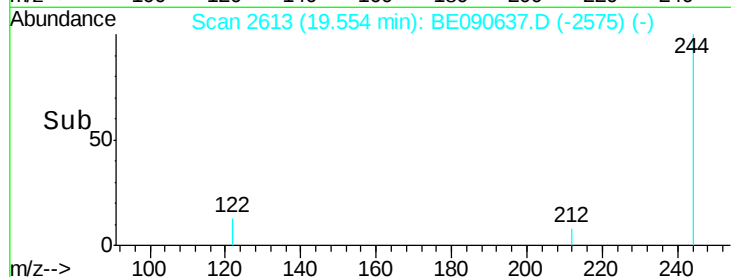
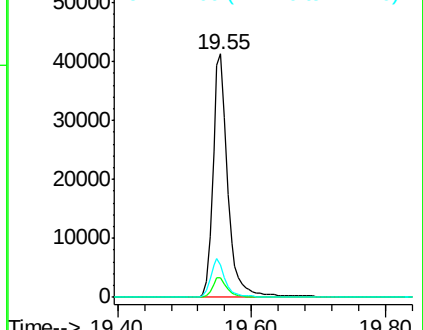
122 13.1 10.2 15.4



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



#28

Benzo(a)anthracene

Concen: 2.91 ng

RT: 21.07 min Scan# 2861

Delta R.T. -0.01 min

Lab File: BE090637.D

Acq: 26 Aug 2015 15:03

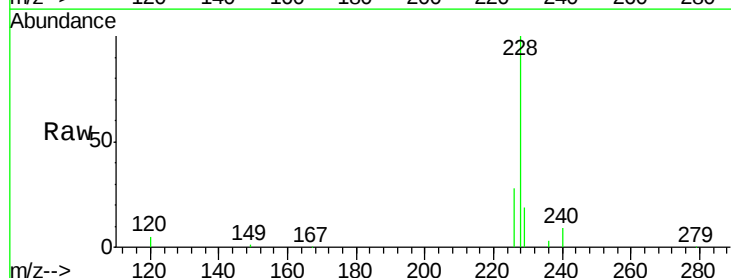
Tgt Ion:228 Resp: 84241

Ion Ratio Lower Upper

228 100

226 28.0 21.9 32.9

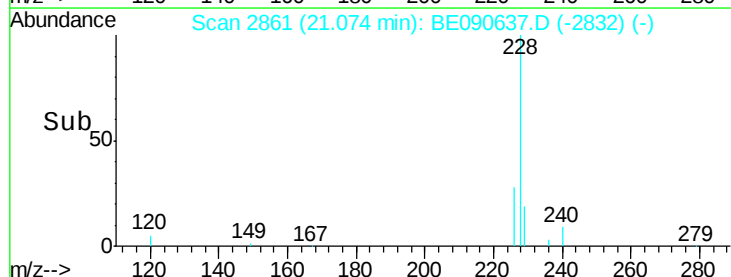
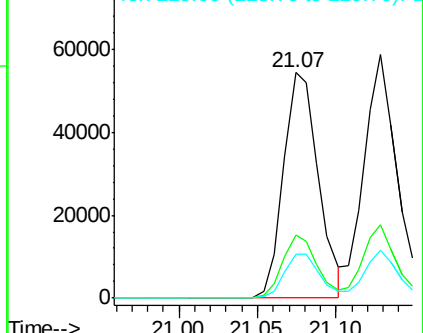
229 19.4 15.4 23.0



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





#29

Chrysene

Concen: 3.12 ng

RT: 21.13 min Scan# 2869

Delta R.T. 0.00 min

Lab File: BE090637.D

Acq: 26 Aug 2015 15:03

Instrument :

BNA\_E

ClientSampleId :

PB85188BS

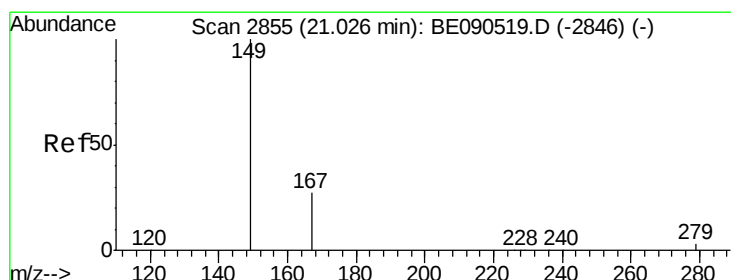
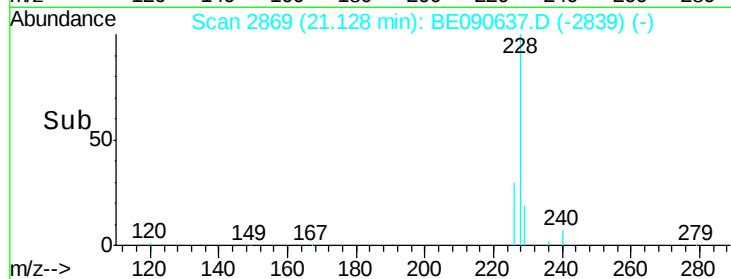
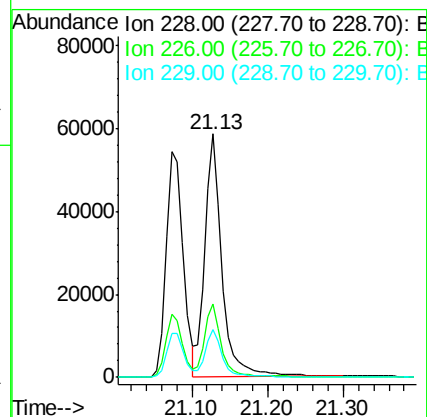
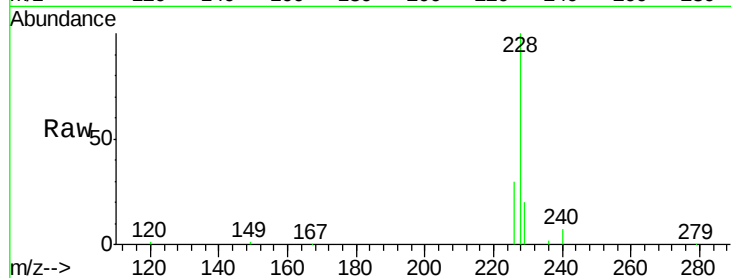
Tot Ion:228 Resp: 92240

Ion Ratio Lower Upper

228 100

226 30.0 23.1 34.7

229 19.5 15.8 23.8



#30

Bis(2-ethylhexyl)phthalate

Concen: 1.89 ng

RT: 21.02 min Scan# 2853

Delta R.T. 0.00 min

Lab File: BE090637.D

Acq: 26 Aug 2015 15:03

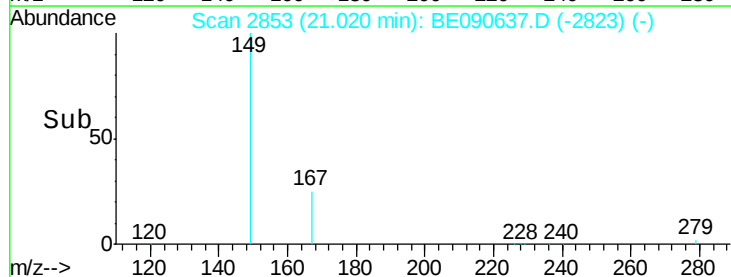
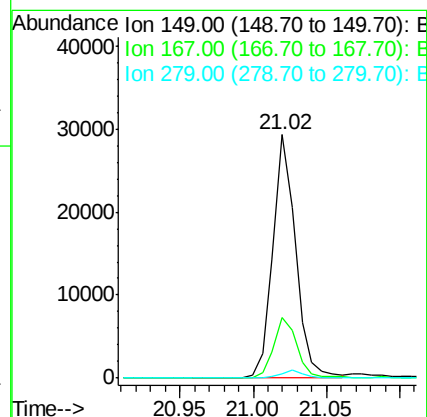
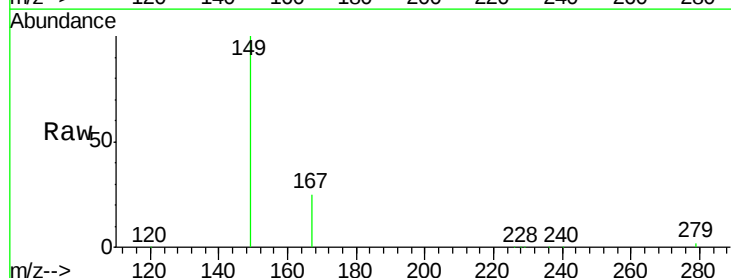
Tgt Ion:149 Resp: 31202

Ion Ratio Lower Upper

149 100

167 25.6 19.8 29.8

279 3.0 2.4 3.6

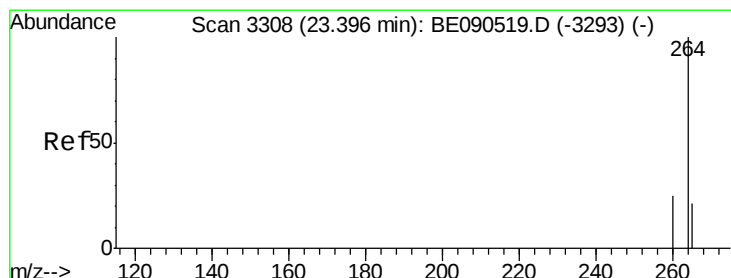
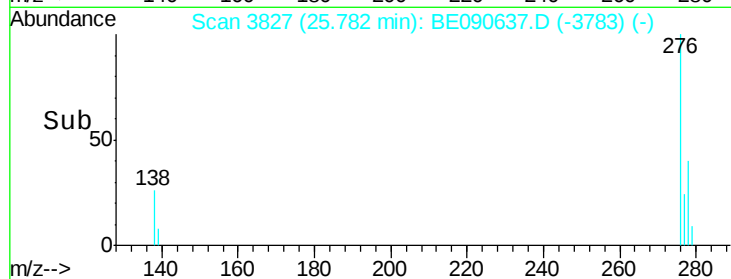
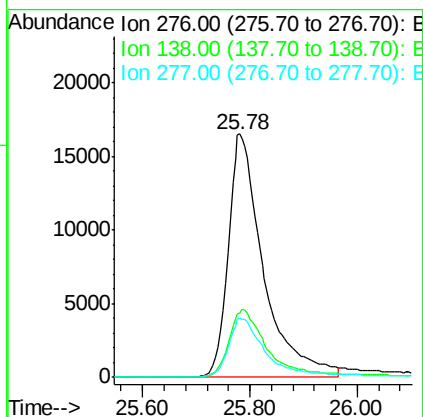
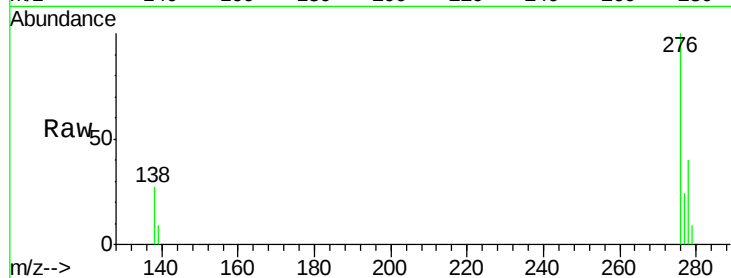




#31  
Indeno(1,2,3-cd)pyrene  
Concen: 2.67 ng  
RT: 25.78 min Scan# 3827  
Delta R.T. 0.00 min  
Lab File: BE090637.D  
Acq: 26 Aug 2015 15:03

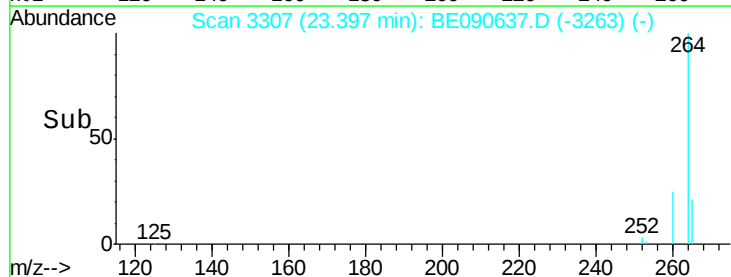
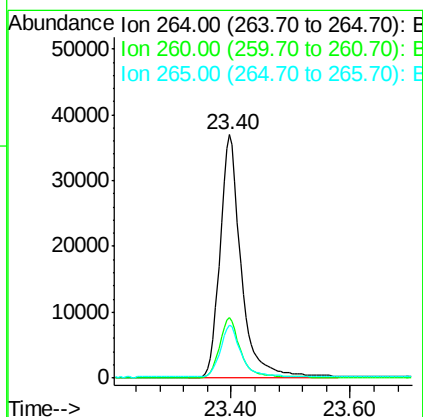
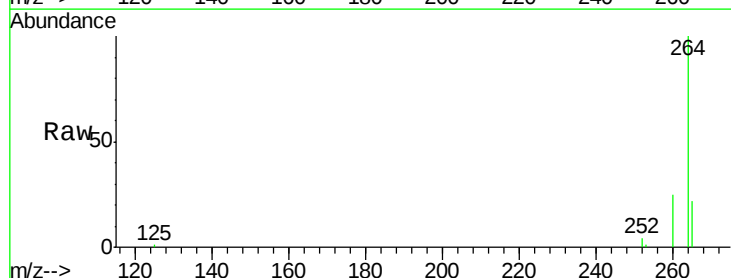
Instrument :  
BNA\_E  
ClientSampleId :  
PB85188BS

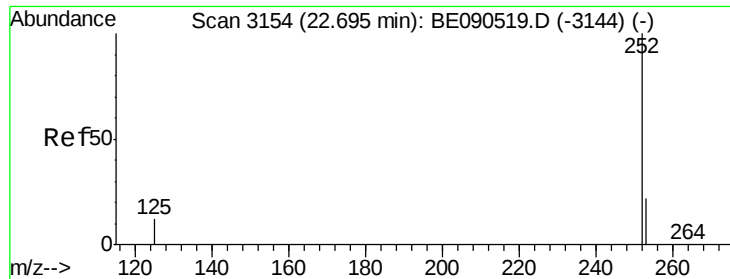
Tot Ion:276 Resp: 74460  
Ion Ratio Lower Upper  
276 100  
138 29.4 18.8 28.2#  
277 24.9 18.2 27.4



#32  
Perylene-d12  
Concen: 5.00 ng  
RT: 23.40 min Scan# 3307  
Delta R.T. 0.00 min  
Lab File: BE090637.D  
Acq: 26 Aug 2015 15:03

Tgt Ion:264 Resp: 91536  
Ion Ratio Lower Upper  
264 100  
260 25.0 20.1 30.1  
265 21.6 17.2 25.8





#33

Benzo(b)fluoranthene

Concen: 3.30 ng

RT: 22.70 min Scan# 3153

Delta R.T. 0.00 min

Lab File: BE090637.D

Acq: 26 Aug 2015 15:03

Instrument :

BNA\_E

ClientSampleId :

PB85188BS

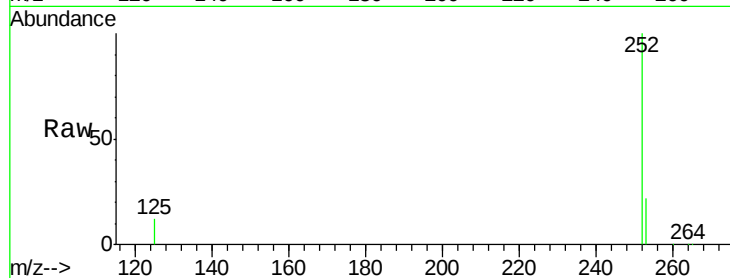
Tot Ion:252 Resp: 71634

Ion Ratio Lower Upper

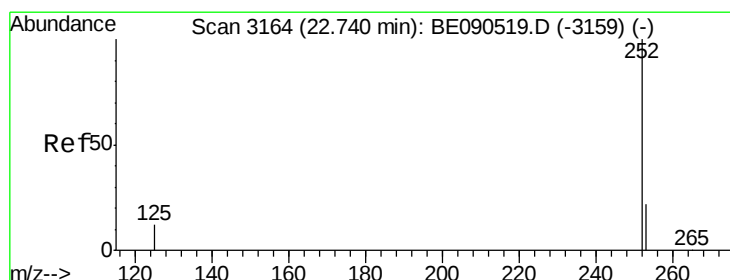
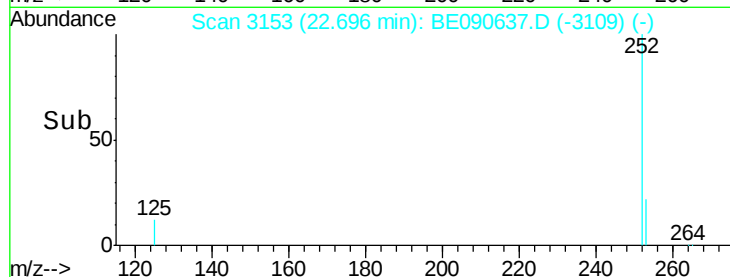
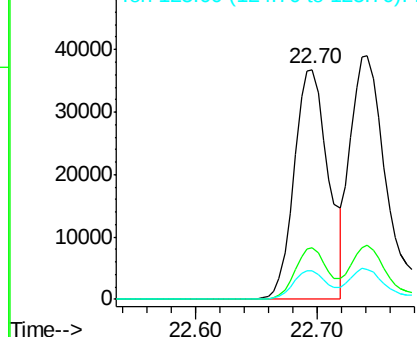
252 100

253 22.5 18.1 27.1

125 12.4 9.4 14.2



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



#34

Benzo(k)fluoranthene

Concen: 3.43 ng

RT: 22.74 min Scan# 3163

Delta R.T. 0.01 min

Lab File: BE090637.D

Acq: 26 Aug 2015 15:03

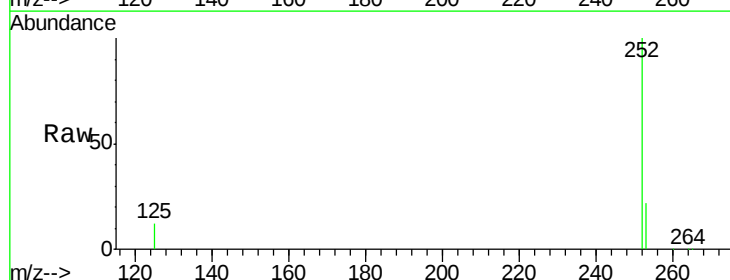
Tgt Ion:252 Resp: 84354

Ion Ratio Lower Upper

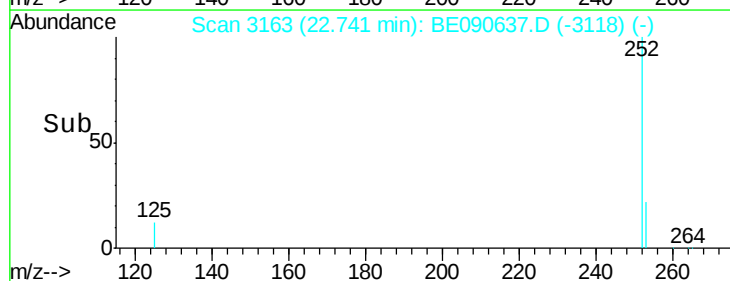
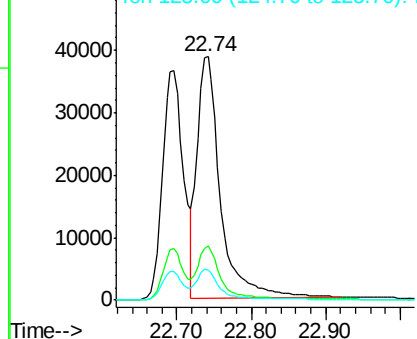
252 100

253 22.2 18.1 27.1

125 12.4 9.1 13.7



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

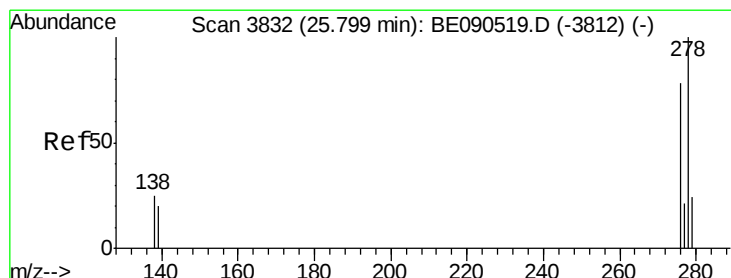
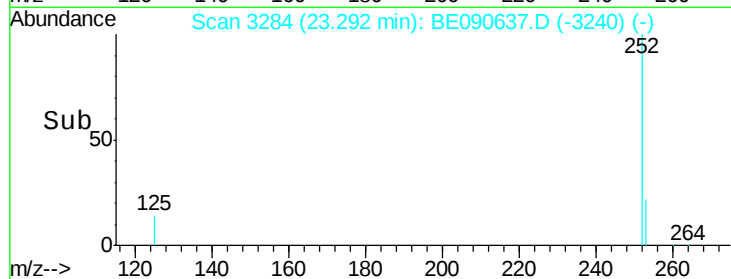
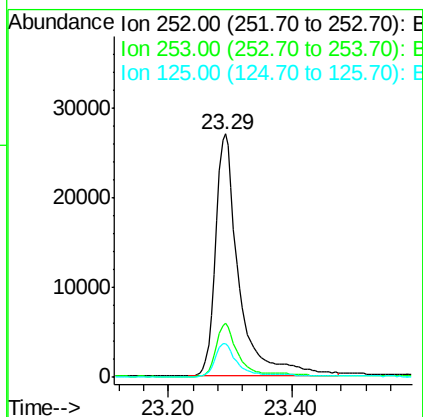
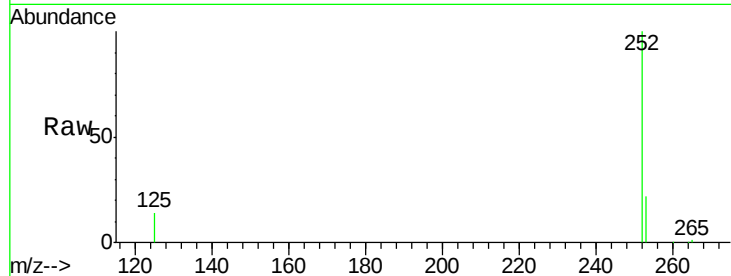




#35  
Benzo(a)pyrene  
Concen: 3.48 ng  
RT: 23.29 min Scan# 3284  
Delta R.T. 0.00 min  
Lab File: BE090637.D  
Acq: 26 Aug 2015 15:03

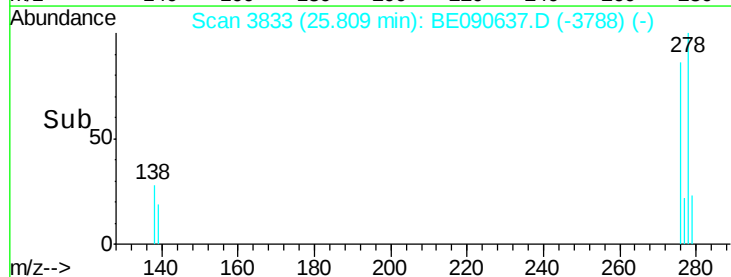
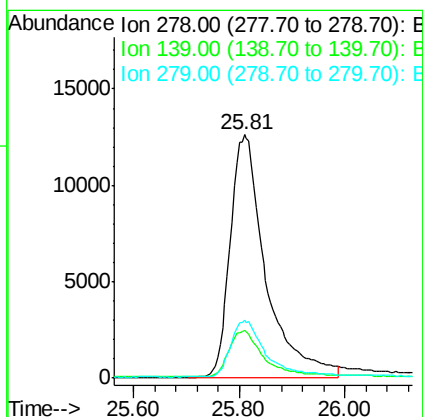
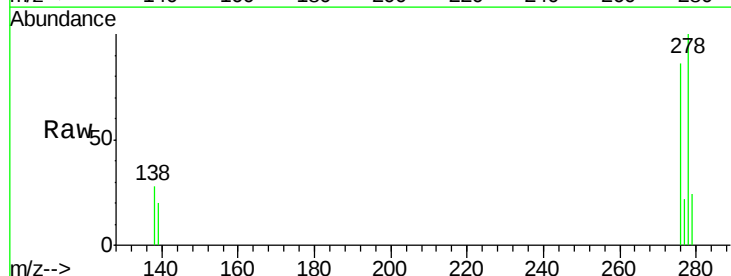
Instrument :  
BNA\_E  
ClientSampleId :  
PB85188BS

Tot Ion:252 Resp: 70576  
Ion Ratio Lower Upper  
252 100  
253 22.2 17.6 26.4  
125 14.1 9.8 14.6



#36  
Dibenzo(a,h)anthracene  
Concen: 3.00 ng  
RT: 25.81 min Scan# 3833  
Delta R.T. 0.00 min  
Lab File: BE090637.D  
Acq: 26 Aug 2015 15:03

Tgt Ion:278 Resp: 58666  
Ion Ratio Lower Upper  
278 100  
139 19.6 14.2 21.4  
279 23.8 20.1 30.1





#37

Benzo(a,h,i)perylene

Concen: 3.10 ng

RT: 26.52 min Scan# 3988

Delta R.T. 0.00 min

Lab File: BE090637.D

Acq: 26 Aug 2015 15:03

Instrument :

BNA\_E

ClientSampleId :

PB85188BS

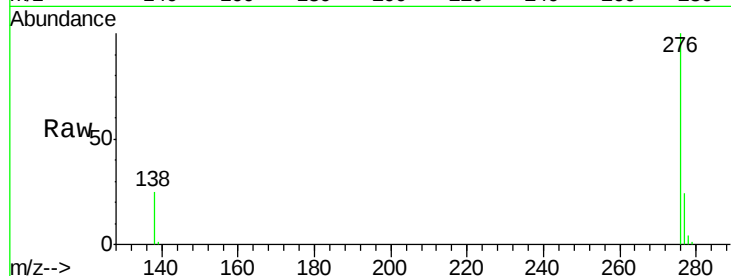
Tot Ion: 276 Resp: 66244

Ion Ratio Lower Upper

276 100

277 24.1 20.1 30.1

138 25.3 18.1 27.1



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

