

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE102114\  
 Data File : BE088143.D  
 Acq On : 21 Oct 2014 15:45  
 Operator : TP/JJ  
 Sample : PB79627BL  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB79627BL

Quant Time: Oct 22 04:37:18 2014  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SIM-PAH-BE102014.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 21 02:11:14 2014  
 Response via : Initial Calibration

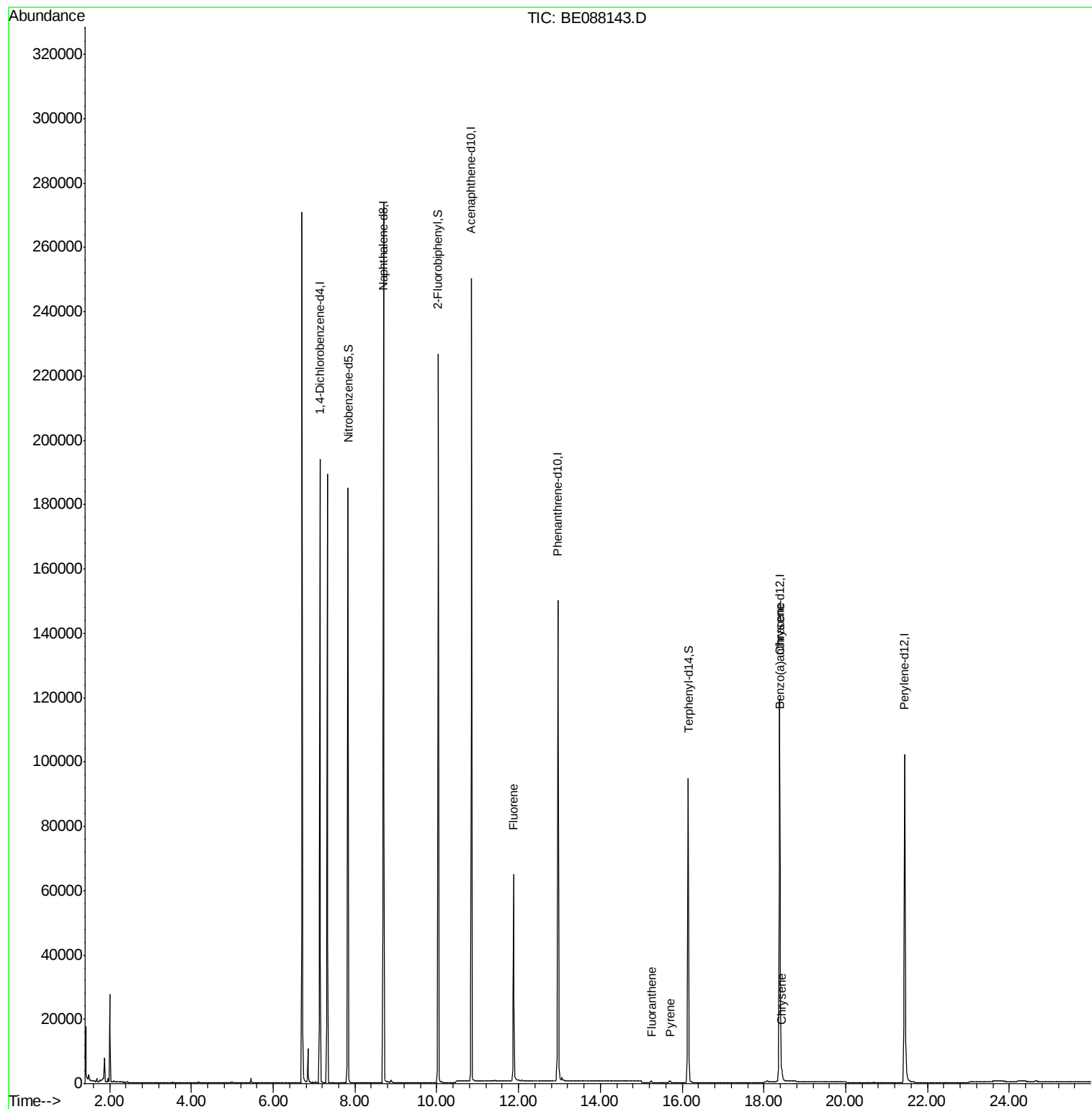
| Internal Standards          | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.14  | 152  | 64958    | 5.00      | ng    | 0.00     |
| 3) Naphthalene-d8           | 8.70  | 136  | 242224   | 5.00      | ng    | 0.00     |
| 7) Acenaphthene-d10         | 10.85 | 164  | 109484   | 5.00      | ng    | 0.00     |
| 12) Phenanthrene-d10        | 12.96 | 188  | 200514   | 5.00      | ng    | 0.00     |
| 16) Chrysene-d12            | 18.38 | 240  | 145151   | 5.00      | ng    | 0.00     |
| 22) Perylene-d12            | 21.44 | 264  | 139423   | 5.00      | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |           |       |          |
| 4) Nitrobenzene-d5          | 7.83  | 82   | 94939    | 5.44      | ng    | 0.00     |
| 8) 2-Fluorobiphenyl         | 10.04 | 172  | 151577   | 5.01      | ng    | 0.00     |
| 18) Terphenyl-d14           | 16.15 | 244  | 122357   | 5.24      | ng    | 0.00     |
| Target Compounds            |       |      |          |           |       | Qvalue   |
| 11) Fluorene                | 11.88 | 166  | 1780     | 0.07      | ng    | # 80     |
| 13) Phenanthrene            | 13.01 | 178  | 2500     | Below Cal |       | # 75     |
| 15) Fluoranthene            | 15.25 | 202  | 828      | 0.02      | ng    | 95       |
| 17) Pyrene                  | 15.70 | 202  | 852      | 0.02      | ng    | 99       |
| 19) Benzo(a)anthracene      | 18.37 | 228  | 3758     | 0.03      | ng    | # 88     |
| 20) Chrysene                | 18.43 | 228  | 3887     | 0.03      | ng    | # 86     |

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

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Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1258

Delta R.T. 0.00 min

Lab File: BE088143.D

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BNA\_E

ClientSampleId :

PB79627BL

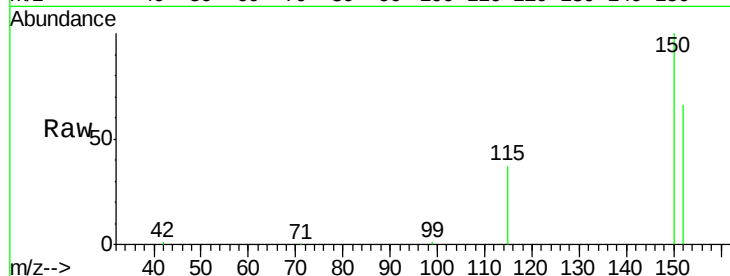
Tgt Ion:152 Resp: 64958

Ion Ratio Lower Upper

152 100

150 150.4 129.2 193.8

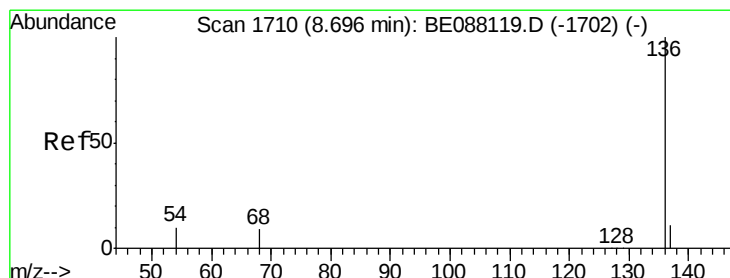
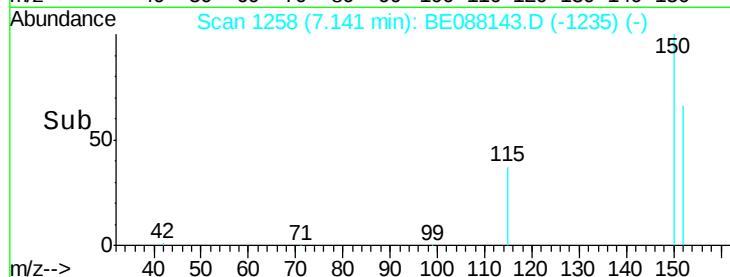
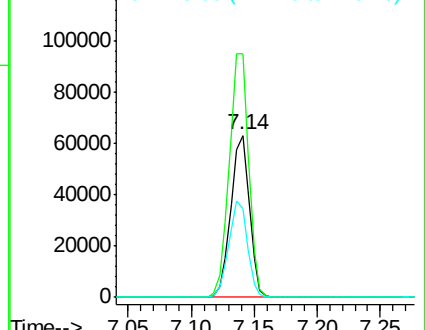
115 55.0 49.3 73.9



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



#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.70 min Scan# 1711

Delta R.T. 0.00 min

Lab File: BE088143.D

Acq: 21 Oct 2014 15:45

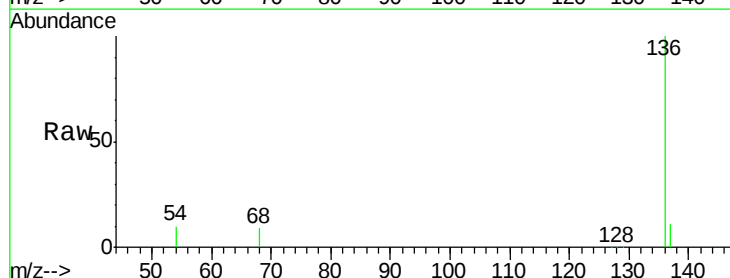
Tgt Ion:136 Resp: 242224

Ion Ratio Lower Upper

136 100

137 10.8 8.6 12.8

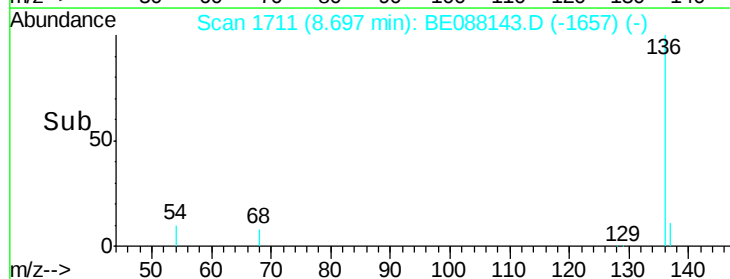
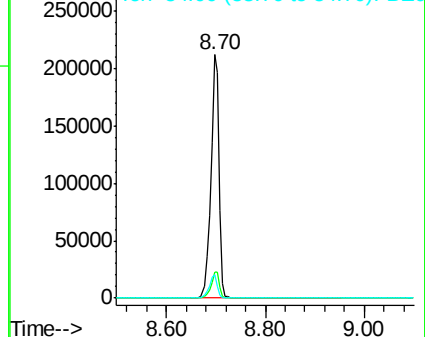
54 9.7 7.7 11.5

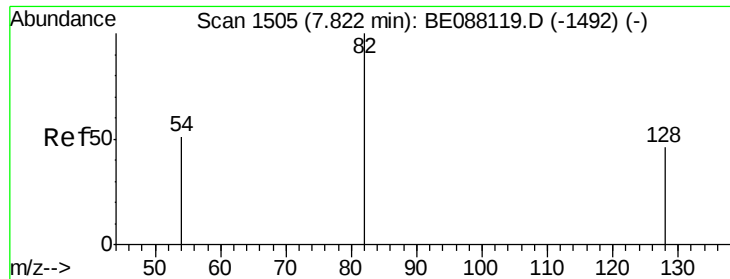


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#4

Nitrobenzene-d5

Concen: 5.44 ng

RT: 7.83 min Scan# 1507

Delta R.T. 0.00 min

Lab File: BE088143.D

Acq: 21 Oct 2014 15:45

Instrument :

BNA\_E

ClientSampleId :

PB79627BL

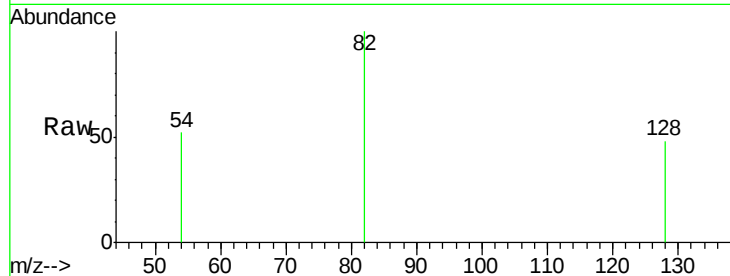
Tgt Ion: 82 Resp: 94939

Ion Ratio Lower Upper

82 100

128 47.6 37.1 55.7

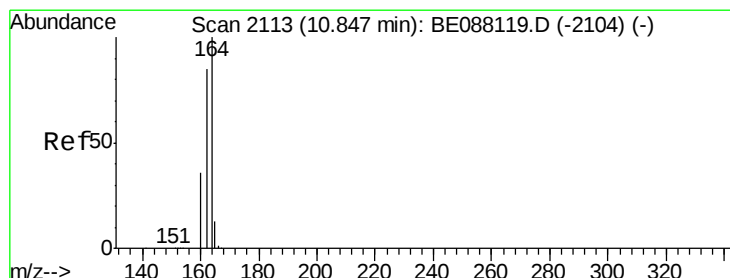
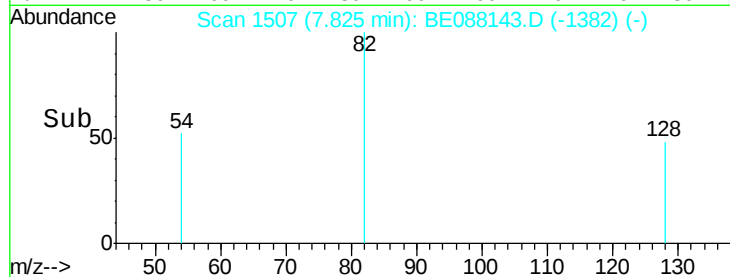
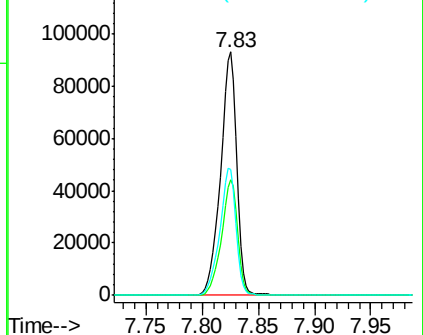
54 51.5 41.1 61.7



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



#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.85 min Scan# 2114

Delta R.T. -0.00 min

Lab File: BE088143.D

Acq: 21 Oct 2014 15:45

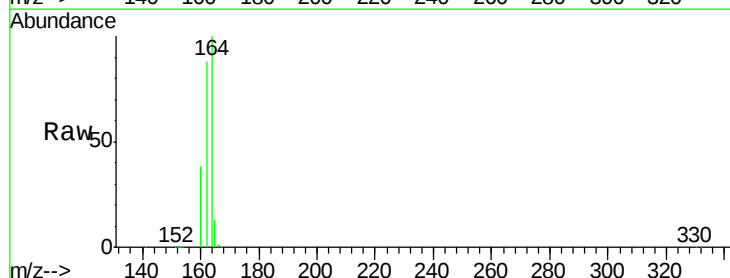
Tgt Ion: 164 Resp: 109484

Ion Ratio Lower Upper

164 100

162 87.7 68.3 102.5

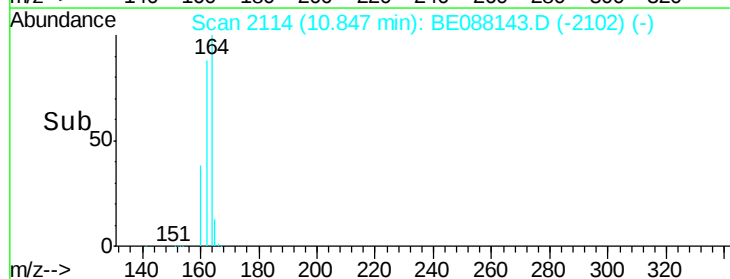
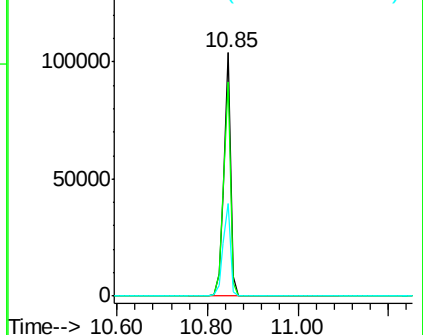
160 38.2 28.7 43.1

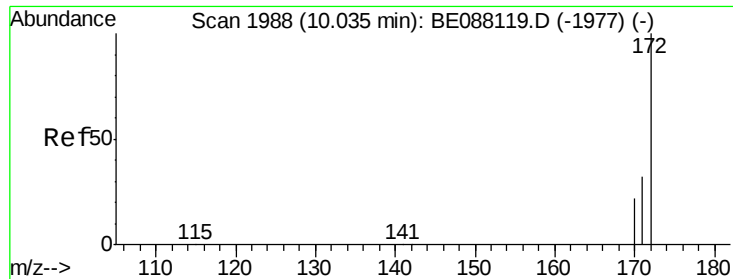


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#8

2-Fluorobiphenyl

Concen: 5.01 ng

RT: 10.04 min Scan# 1989

Delta R.T. 0.00 min

Lab File: BE088143.D

Acq: 21 Oct 2014 15:45

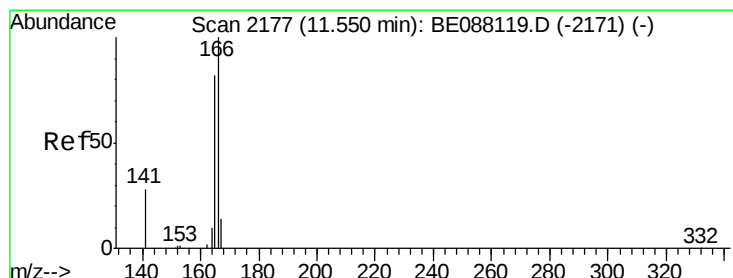
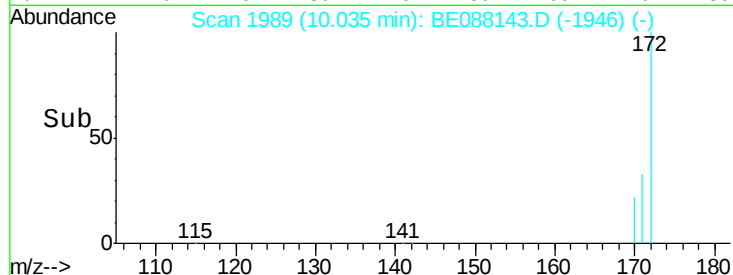
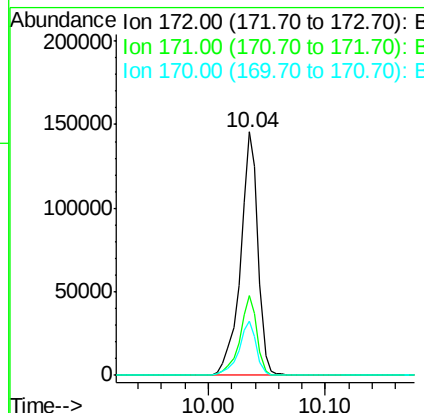
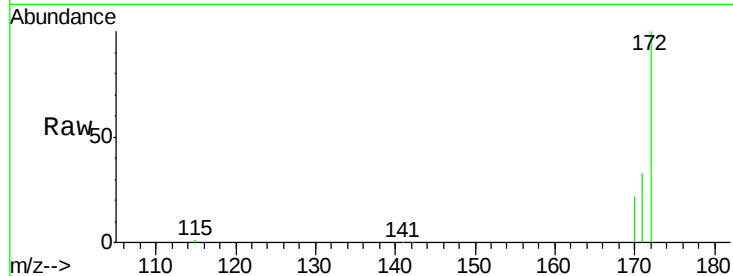
Instrument :

BNA\_E

ClientSampleId :

PB79627BL

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 172   | Resp: | 151577 |
| Ion      | Ratio | Lower | Upper  |
| 172      | 100   |       |        |
| 171      | 32.7  | 25.4  | 38.2   |
| 170      | 22.4  | 17.4  | 26.2   |



#11

Fluorene

Concen: 0.07 ng

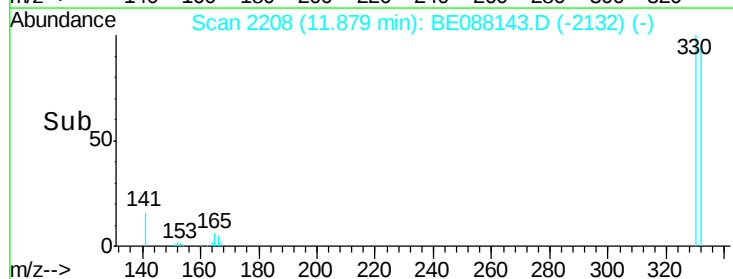
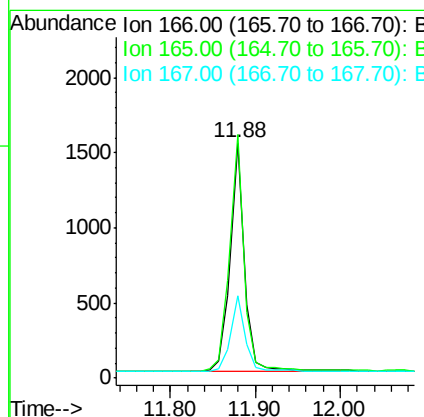
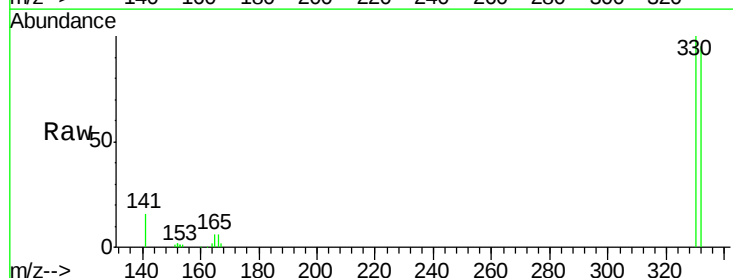
RT: 11.88 min Scan# 2208

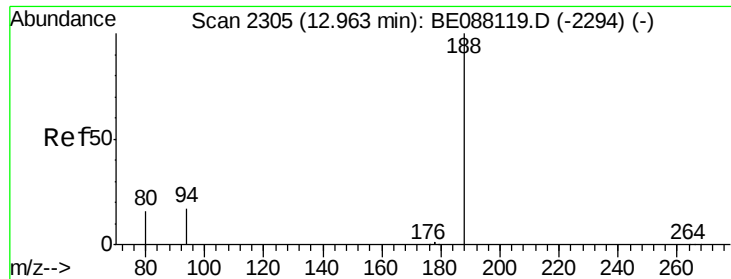
Delta R.T. 0.33 min

Lab File: BE088143.D

Acq: 21 Oct 2014 15:45

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 166   | Resp: | 1780  |
| Ion      | Ratio | Lower | Upper |
| 166      | 100   |       |       |
| 165      | 103.9 | 71.4  | 107.2 |
| 167      | 33.5  | 10.6  | 16.0  |

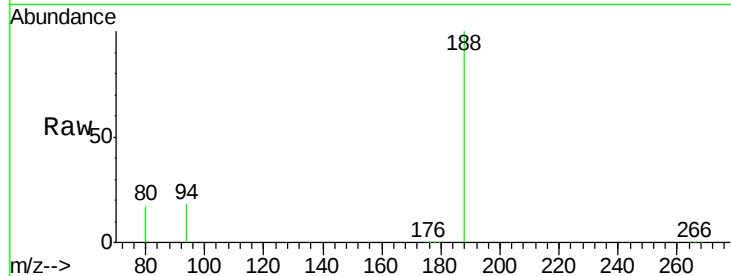




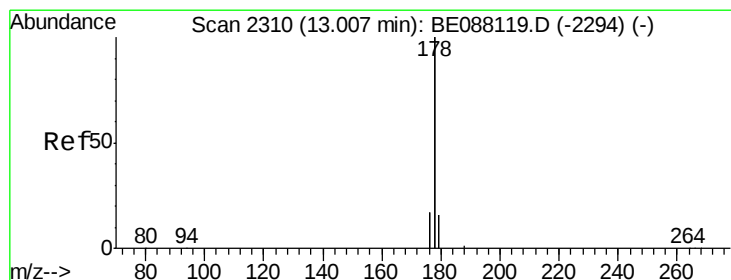
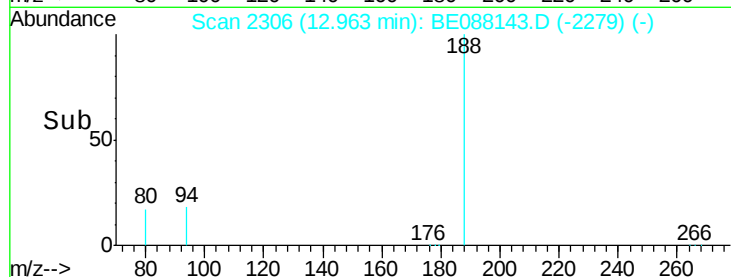
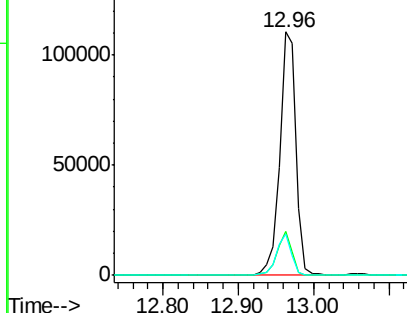
#12  
 Phenanthrene-d10  
 Concen: 5.00 ng  
 RT: 12.96 min Scan# 2306  
 Delta R.T. -0.00 min  
 Lab File: BE088143.D  
 Acq: 21 Oct 2014 15:45

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 ClientSampleId :  
 PB79627BL

Tgt Ion:188 Resp: 200514  
 Ion Ratio Lower Upper  
 188 100  
 94 17.8 13.9 20.9  
 80 17.1 12.9 19.3

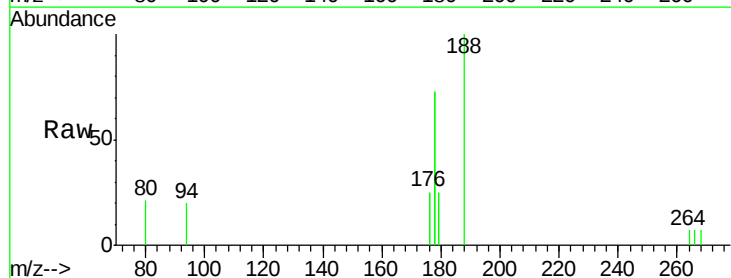


Abundance Ion 188.00 (187.70 to 188.70): E  
 150000  
 Ion 94.00 (93.70 to 94.70): BE0  
 Ion 80.00 (79.70 to 80.70): BE0

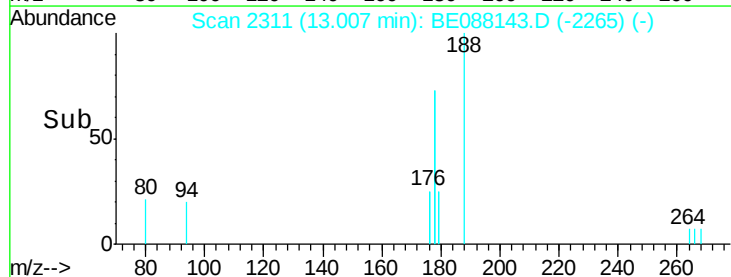
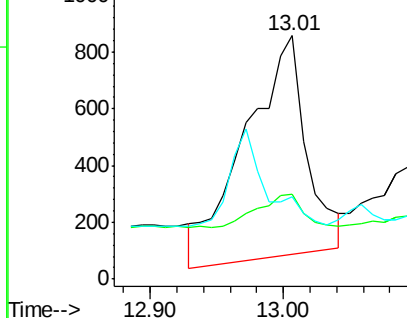


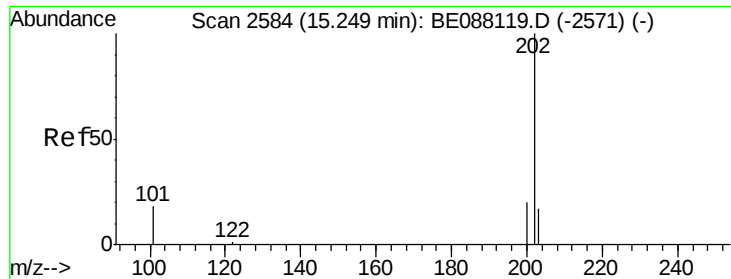
#13  
 Phenanthrene  
 Concen: Below Cal  
 RT: 13.01 min Scan# 2311  
 Delta R.T. 0.00 min  
 Lab File: BE088143.D  
 Acq: 21 Oct 2014 15:45

Tgt Ion:178 Resp: 2500  
 Ion Ratio Lower Upper  
 178 100  
 176 19.4 12.5 18.7#  
 179 0.0 13.5 20.3#



Abundance Ion 178.00 (177.70 to 178.70): E  
 1200  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

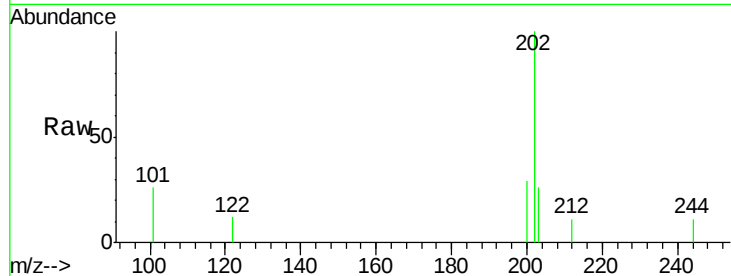




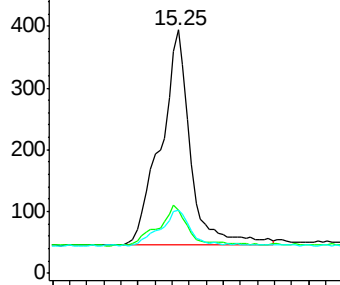
#15  
 Fluoranthene  
 Concen: 0.02 ng  
 RT: 15.25 min Scan# 2585  
 Delta R.T. -0.00 min  
 Lab File: BE088143.D  
 Acq: 21 Oct 2014 15:45

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PB79627BL

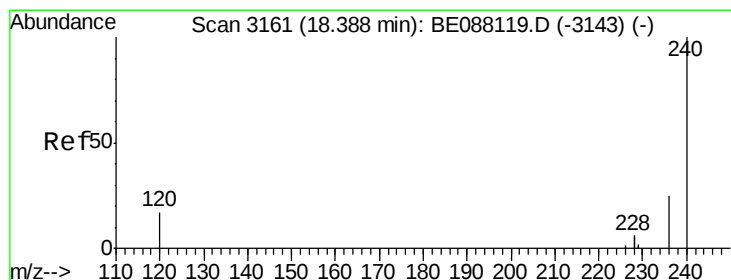
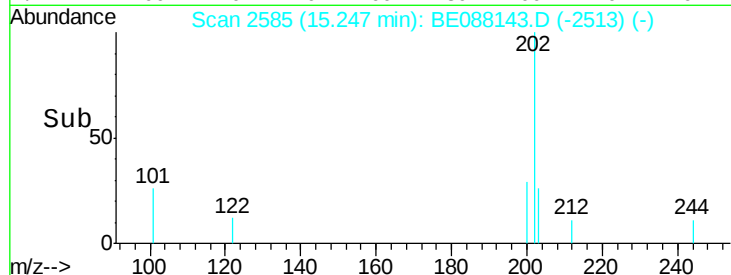
Tgt Ion: 202 Resp: 828  
 Ion Ratio Lower Upper  
 202 100  
 101 16.1 14.8 22.2  
 203 15.0 13.5 20.3



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

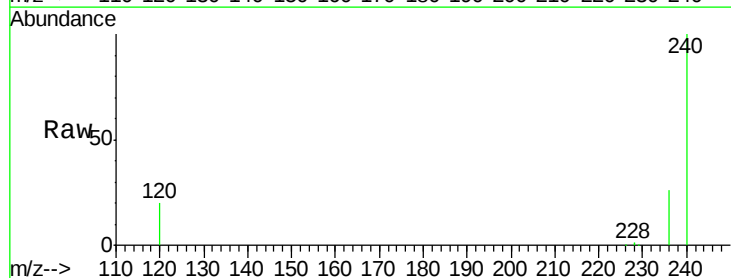


Time--> 15.10 15.20 15.30 15.40

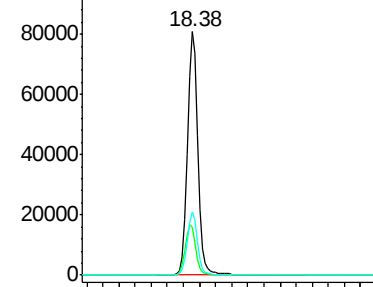


#16  
 Chrysene-d12  
 Concen: 5.00 ng  
 RT: 18.38 min Scan# 3161  
 Delta R.T. -0.00 min  
 Lab File: BE088143.D  
 Acq: 21 Oct 2014 15:45

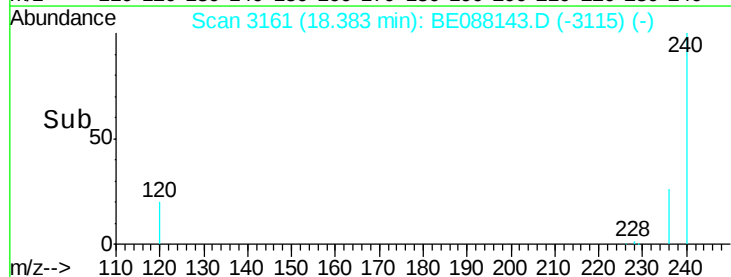
Tgt Ion: 240 Resp: 145151  
 Ion Ratio Lower Upper  
 240 100  
 120 19.6 13.9 20.9  
 236 25.7 19.9 29.9

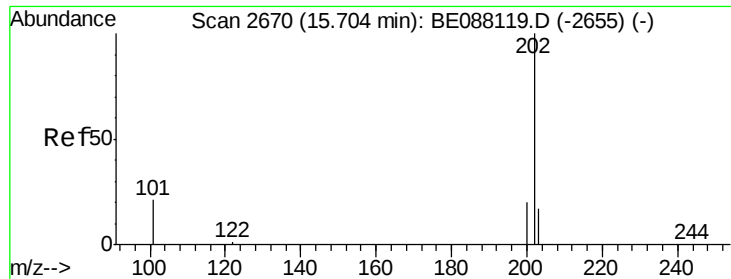


Abundance Ion 240.00 (239.70 to 240.70): E  
 Ion 120.00 (119.70 to 120.70): E  
 Ion 236.00 (235.70 to 236.70): E



Time--> 18.20 18.40 18.60

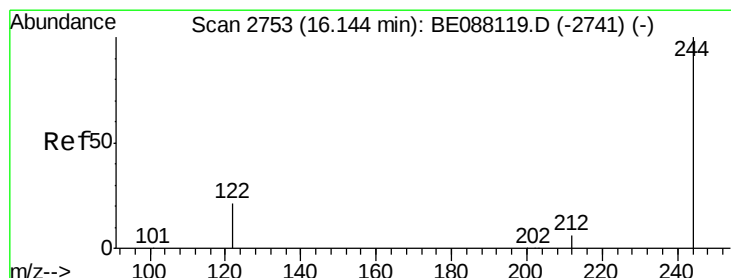
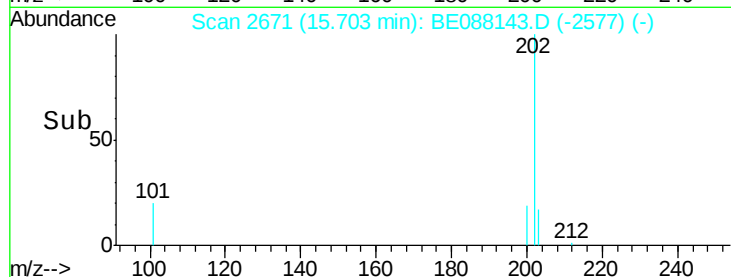
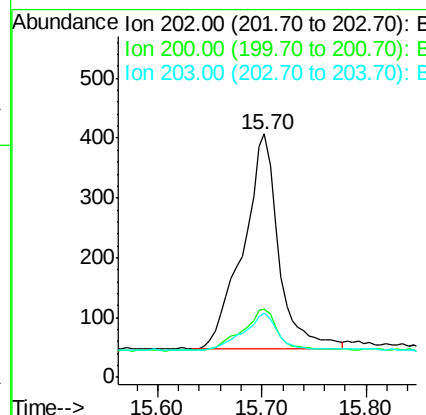
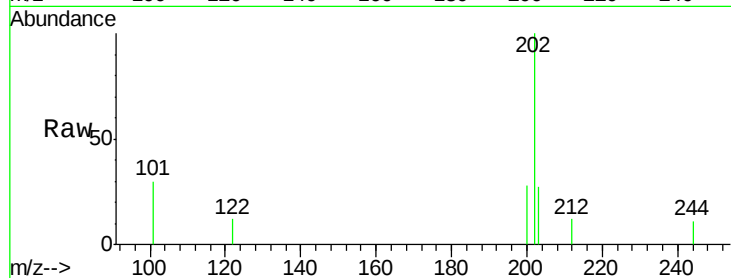




#17  
 Pyrene  
 Concen: 0.02 ng  
 RT: 15.70 min Scan# 2671  
 Delta R.T. -0.00 min  
 Lab File: BE088143.D  
 Acq: 21 Oct 2014 15:45

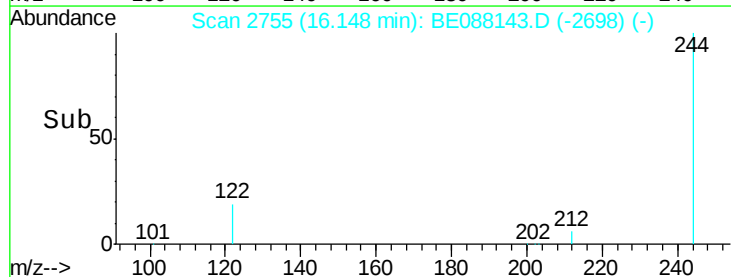
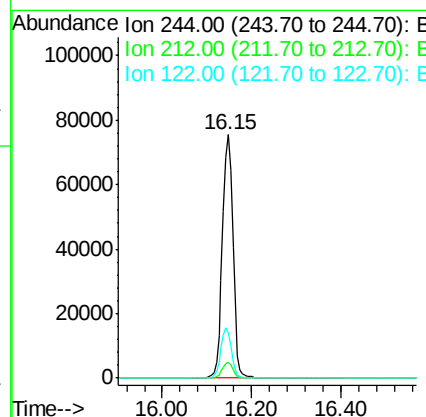
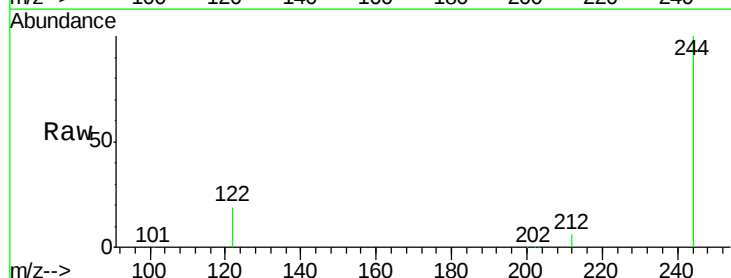
Instrument :  
 BNA\_E  
 ClientSampled :  
 PB79627BL

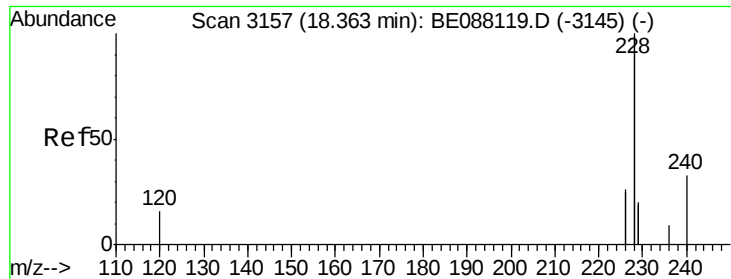
Tgt Ion: 202 Resp: 852  
 Ion Ratio Lower Upper  
 202 100  
 200 20.4 16.1 24.1  
 203 17.6 13.9 20.9



#18  
 Terphenyl-d14  
 Concen: 5.24 ng  
 RT: 16.15 min Scan# 2755  
 Delta R.T. 0.00 min  
 Lab File: BE088143.D  
 Acq: 21 Oct 2014 15:45

Tgt Ion: 244 Resp: 122357  
 Ion Ratio Lower Upper  
 244 100  
 212 6.4 5.4 8.0  
 122 18.8 17.5 26.3





#19

Benzo(a)anthracene

Concen: 0.03 ng

RT: 18.37 min Scan# 3159

Delta R.T. 0.01 min

Lab File: BE088143.D

Acq: 21 Oct 2014 15:45

Instrument :

BNA\_E

ClientSampleId :

PB79627BL

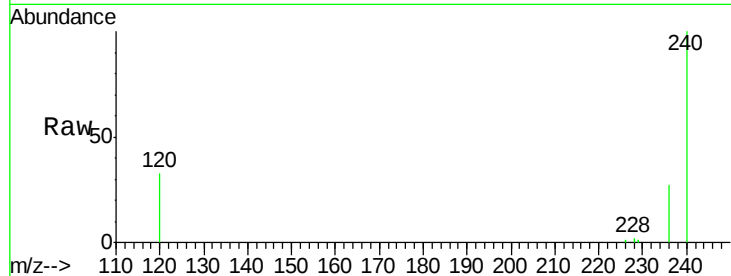
Tgt Ion:228 Resp: 3758

Ion Ratio Lower Upper

228 100

226 28.3 20.8 31.2

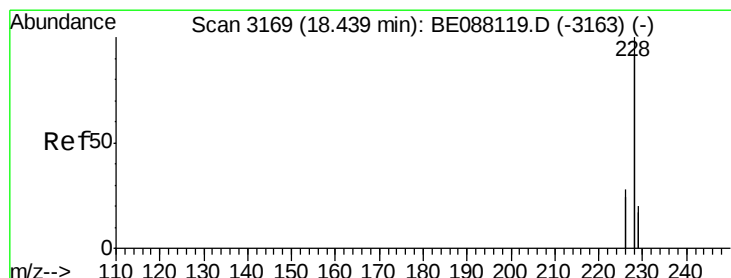
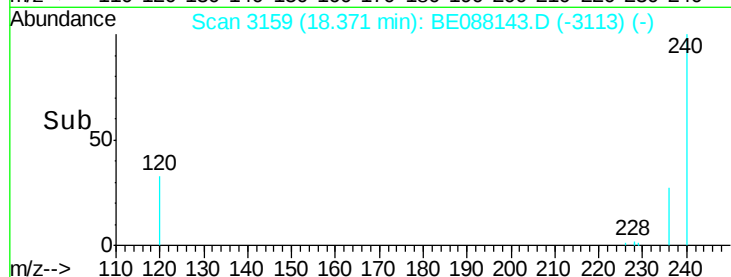
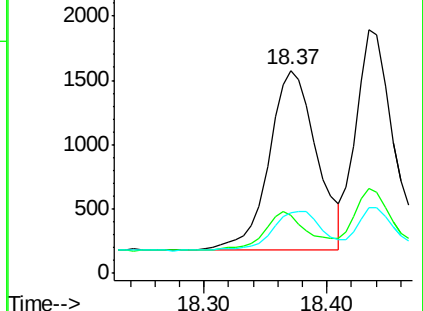
229 29.7 15.6 23.4#



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: 18.43 min Scan# 3169

Delta R.T. -0.00 min

Lab File: BE088143.D

Acq: 21 Oct 2014 15:45

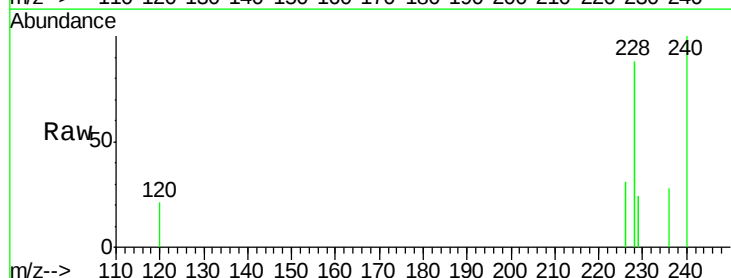
Tgt Ion:228 Resp: 3887

Ion Ratio Lower Upper

228 100

226 35.0 22.7 34.1#

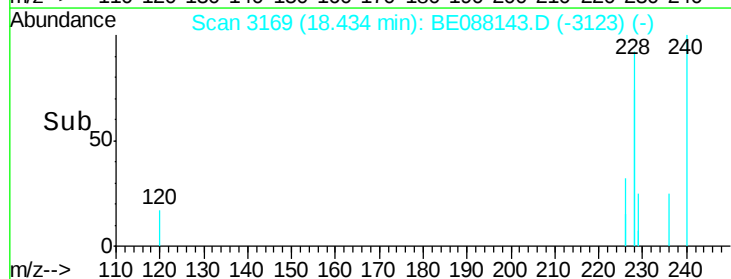
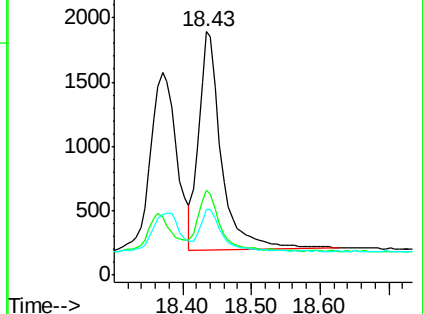
229 27.0 15.8 23.6#

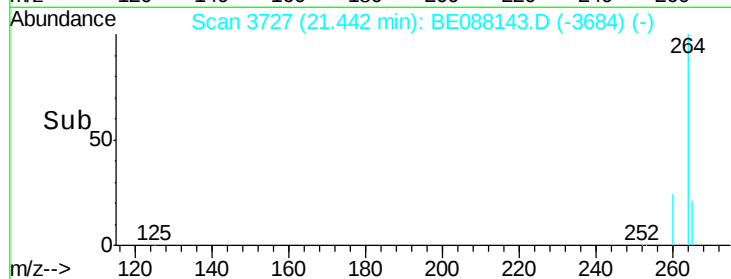
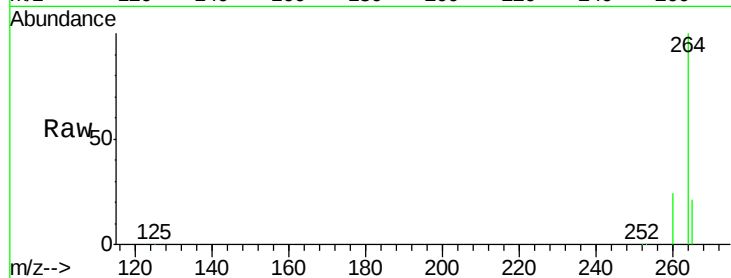
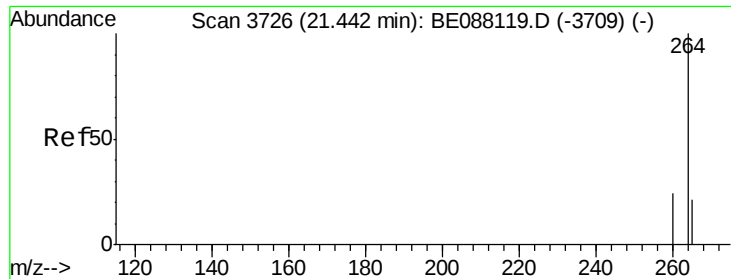


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#22

Perylene-d12

Concen: 5.00 ng

RT: 21.44 min Scan# 3727

Delta R.T. 0.00 min

Lab File: BE088143.D

Acq: 21 Oct 2014 15:45

Instrument :

BNA\_E

ClientSampleId :

PB79627BL

Tgt Ion: 264 Resp: 139423

Ion Ratio Lower Upper

264 100

260 23.9 19.0 28.4

265 21.4 17.2 25.8

