

Data Path : V:\HPCHEM1\BNA F\DATA\BF121515\  
 Data File : BF083804.D  
 Acq On : 15 Dec 2015 8:14  
 Operator : UM/IZ  
 Sample : PB87256BL  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB87256BL

Quant Time: Dec 15 17:23:32 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121315.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 14 01:30:12 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.90  | 152  | 109014   | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8          | 8.18  | 136  | 406537   | 20.00 | ng    | -0.03    |
| 38) Acenaphthene-d10        | 9.94  | 164  | 210777   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10        | 11.41 | 188  | 375952   | 20.00 | ng    | -0.03    |
| 75) Chrysene-d12            | 14.04 | 240  | 319949   | 20.00 | ng    | -0.03    |
| 86) Perylene-d12            | 15.48 | 264  | 251034   | 20.00 | ng    | -0.02    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.50  | 112  | 576191   | 85.27 | ng    | -0.02    |
| 7) Phenol-d6                | 6.52  | 99   | 691534   | 80.81 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.46  | 82   | 625466   | 86.08 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.73 | 330  | 206344   | 96.07 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 9.26  | 172  | 1244852  | 87.23 | ng    | -0.02    |
| 78) Terphenyl-d14           | 13.00 | 244  | 1125033  | 75.64 | ng    | -0.02    |

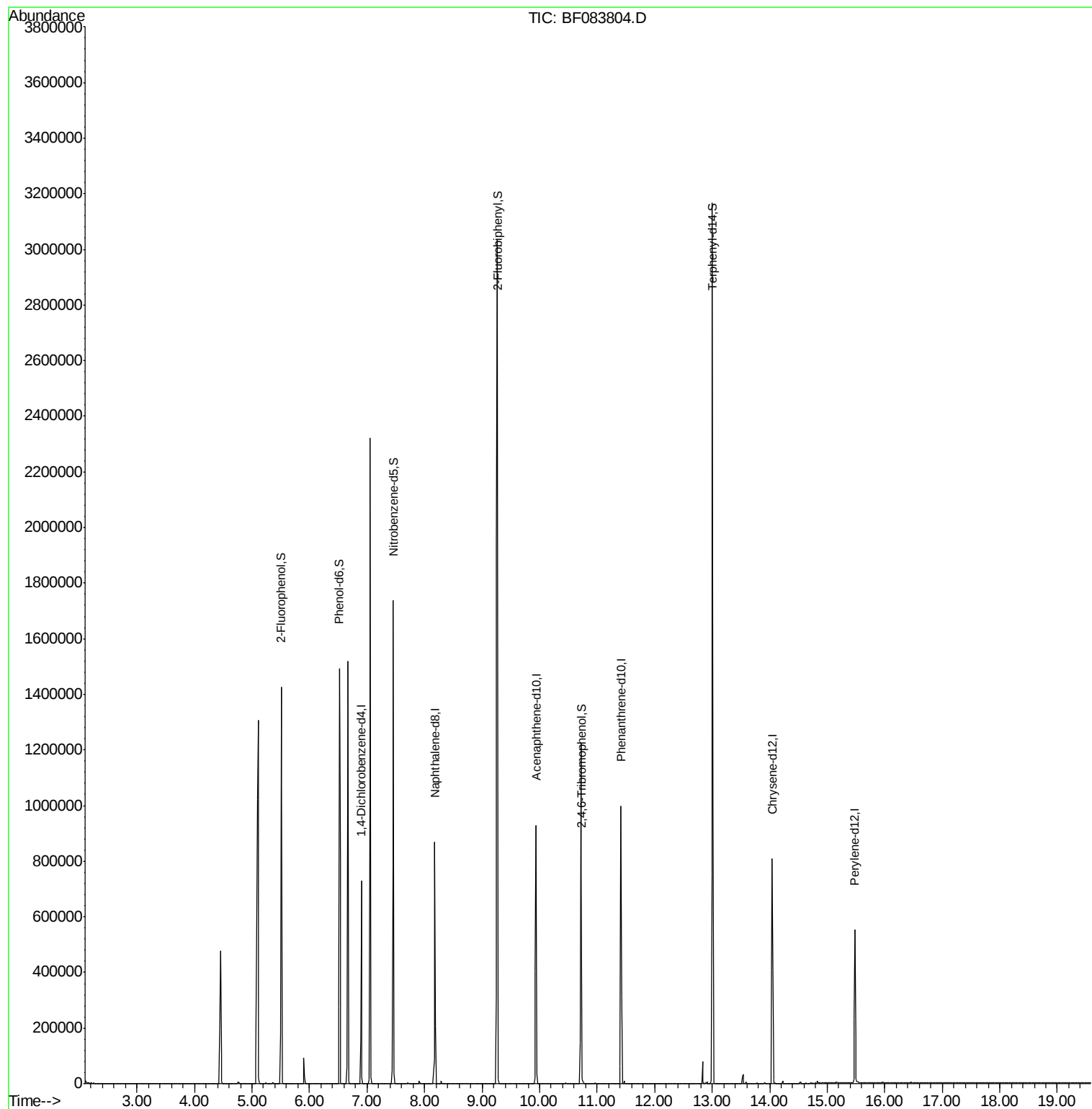
Target Compounds Qvalue

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

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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121315.M  
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QLast Update : Mon Dec 14 01:30:12 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.90 min Scan# 421

Delta R.T. -0.02 min

Lab File: BF083804.D

Acq: 15 Dec 2015 8:14

Instrument :

BNA\_F

ClientSampled :

PB87256BL

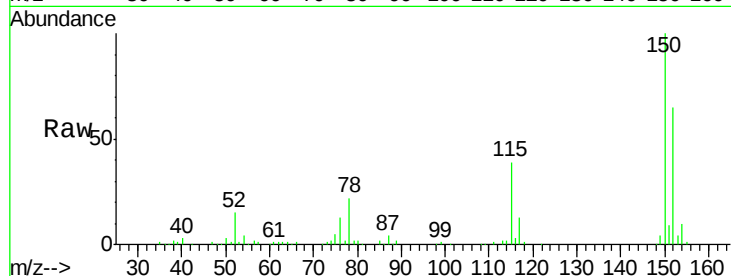
Tot Ion:152 Resp: 109014

Ion Ratio Lower Upper

152 100

150 153.5 126.5 189.7

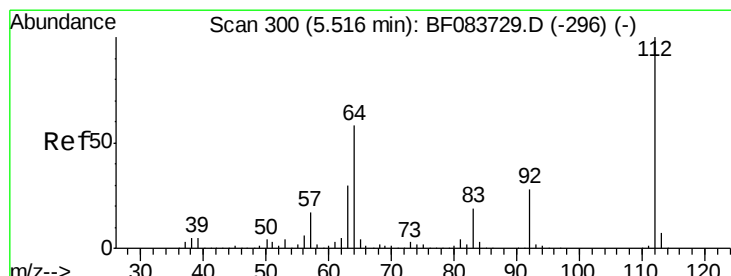
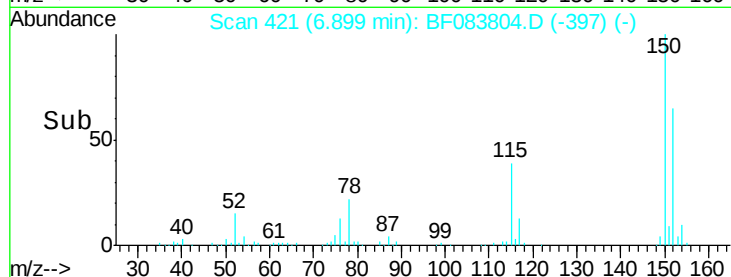
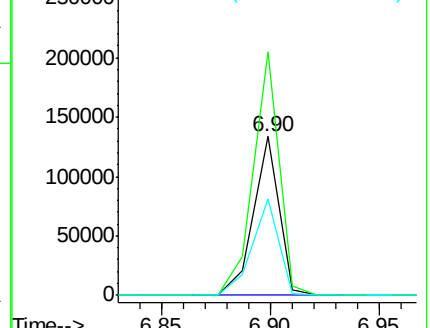
115 60.4 52.3 78.5



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



#5

2-Fluorophenol

Concen: 85.27 ng

RT: 5.50 min Scan# 299

Delta R.T. -0.02 min

Lab File: BF083804.D

Acq: 15 Dec 2015 8:14

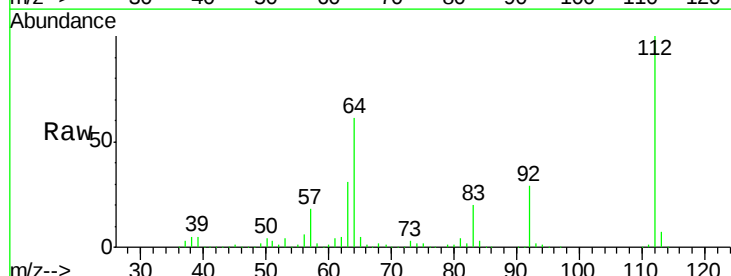
Tgt Ion:112 Resp: 576191

Ion Ratio Lower Upper

112 100

64 61.3 50.5 75.7

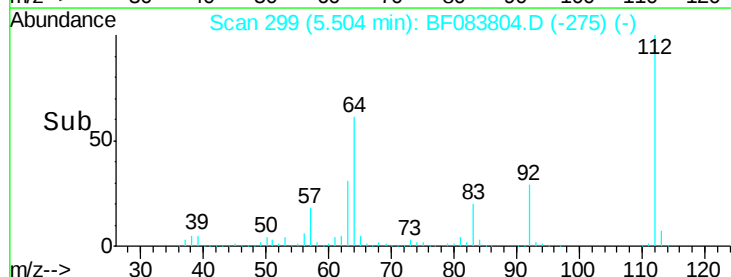
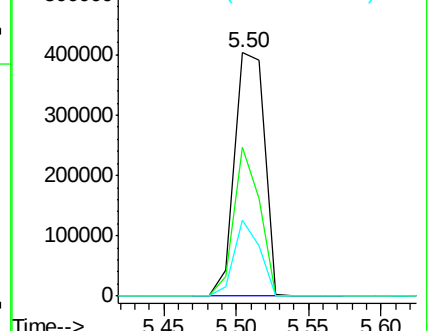
63 31.4 25.8 38.6



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 80.81 ng

RT: 6.52 min Scan# 388

Delta R.T. -0.02 min

Lab File: BF083804.D

Acq: 15 Dec 2015 8:14

Instrument :

BNA\_F

ClientSampleId :

PB87256BL

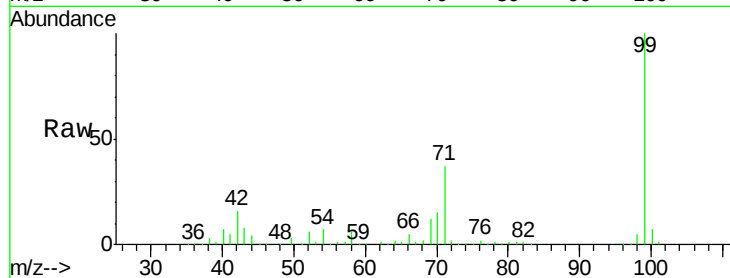
Tot Ion: 99 Resp: 691534

Ion Ratio Lower Upper

99 100

42 16.5 17.3 25.9#

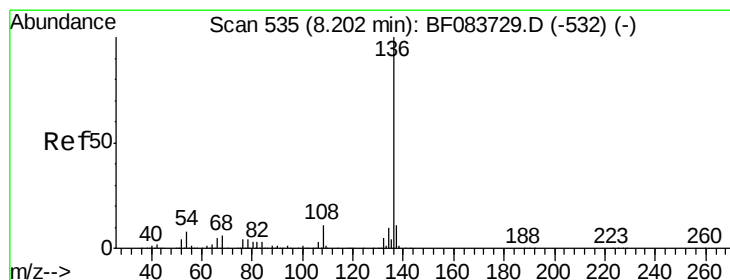
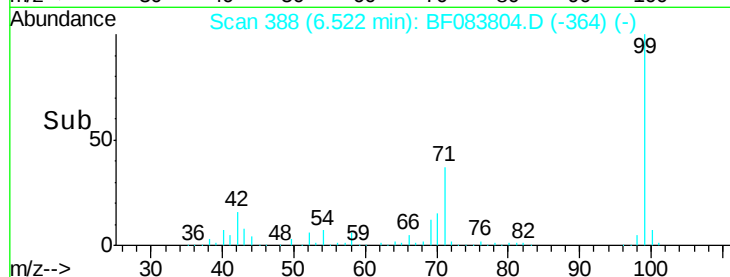
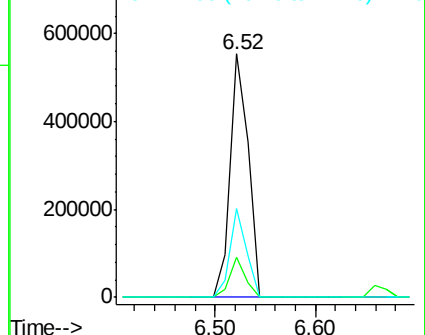
71 36.6 26.6 40.0



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.18 min Scan# 533

Delta R.T. -0.03 min

Lab File: BF083804.D

Acq: 15 Dec 2015 8:14

Tgt Ion: 136 Resp: 406537

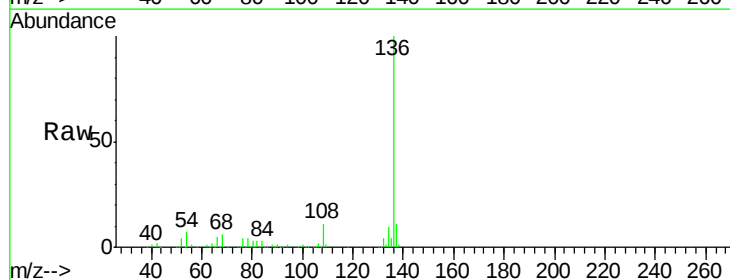
Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

54 7.5 7.8 11.6#

68 6.4 5.7 8.5

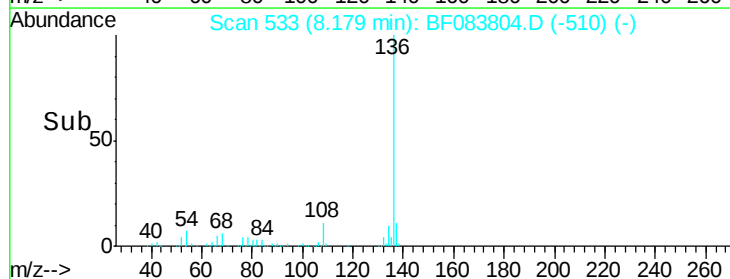
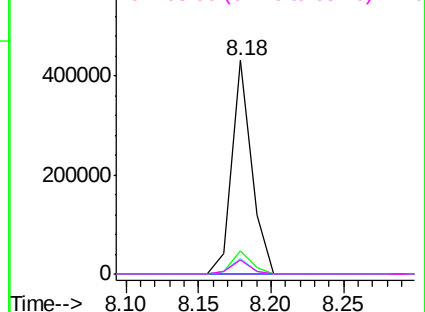


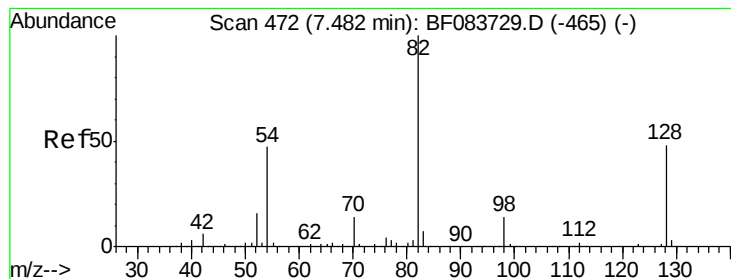
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





#23

Nitrobenzene-d5

Concen: 86.08 ng

RT: 7.46 min Scan# 470

Delta R.T. -0.02 min

Lab File: BF083804.D

Acq: 15 Dec 2015 8:14

Instrument :

BNA\_F

ClientSampled :

PB87256BL

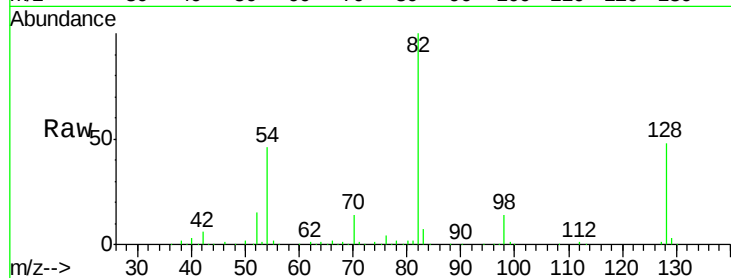
Tot Ion: 82 Resp: 625466

Ion Ratio Lower Upper

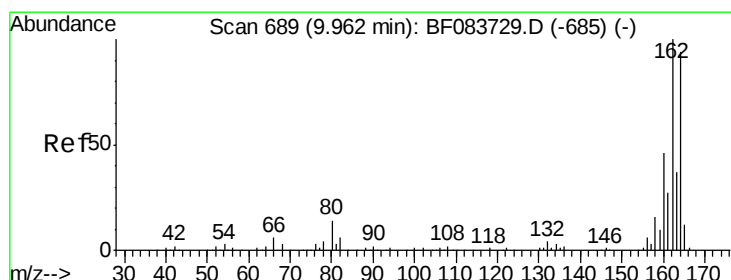
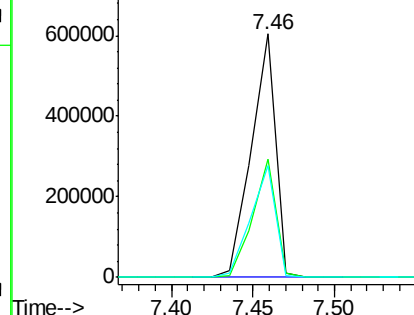
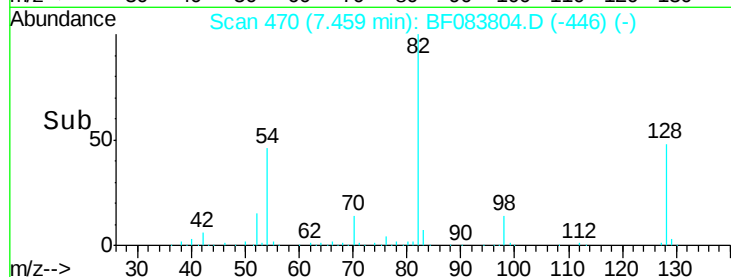
82 100

128 48.3 30.7 46.1#

54 45.8 42.5 63.7



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.94 min Scan# 687

Delta R.T. -0.02 min

Lab File: BF083804.D

Acq: 15 Dec 2015 8:14

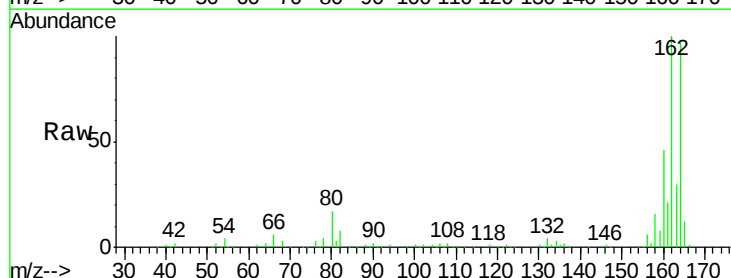
Tgt Ion:164 Resp: 210777

Ion Ratio Lower Upper

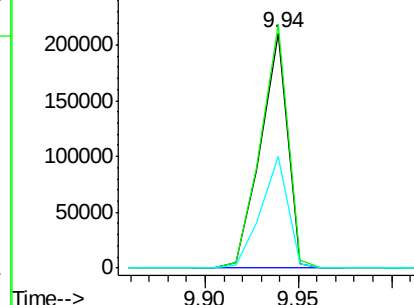
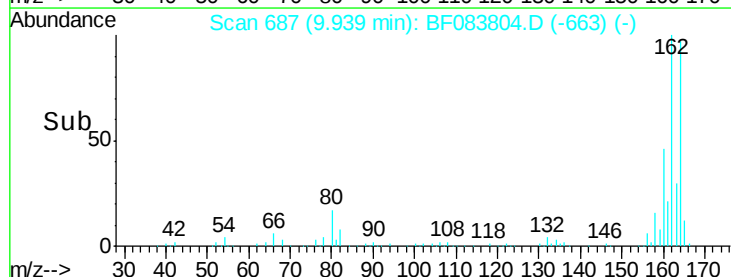
164 100

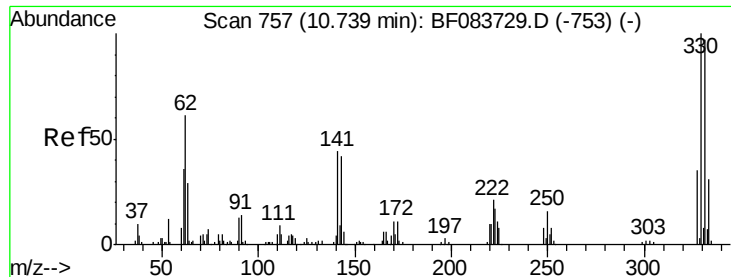
162 103.6 78.8 118.2

160 47.4 33.4 50.2



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

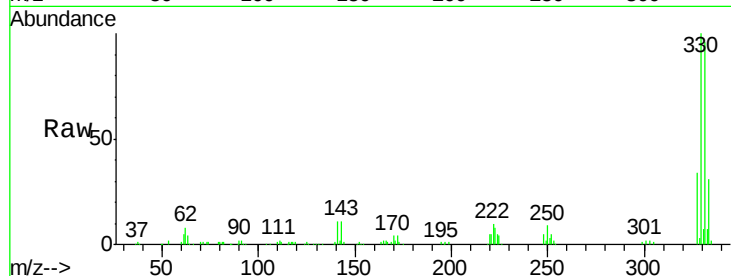




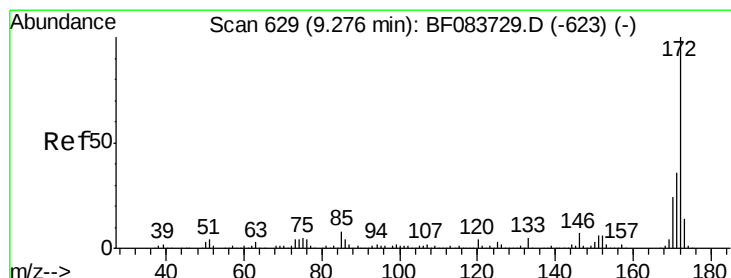
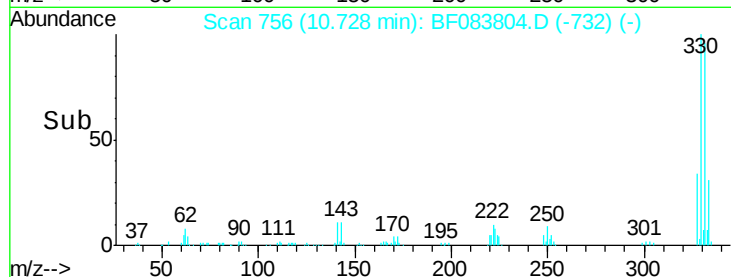
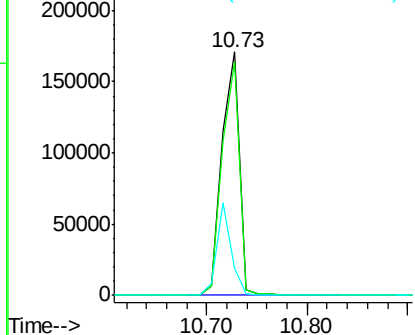
#41  
 2,4,6-Tribromophenol  
 Concen: 96.07 ng  
 RT: 10.73 min Scan# 756  
 Delta R.T. -0.02 min  
 Lab File: BF083804.D  
 Acq: 15 Dec 2015 8:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB87256BL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.2  | 0.0   | 0.0#  |
| 141     | 31.5  | 0.0   | 0.0#  |

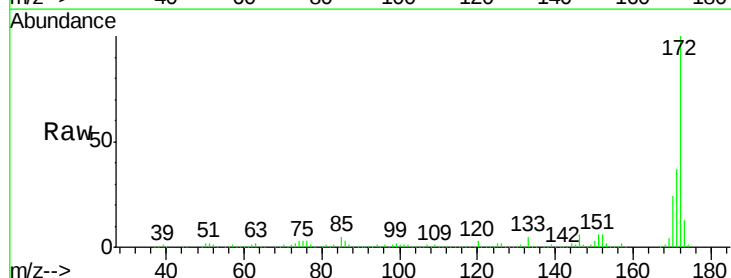


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

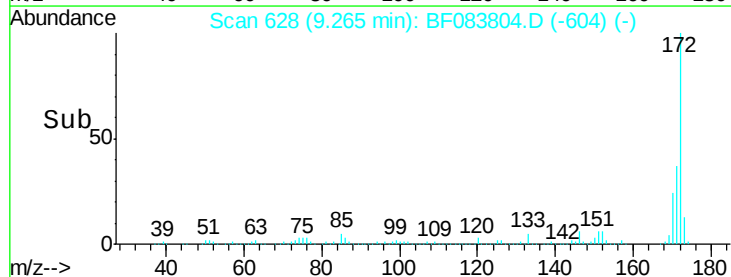
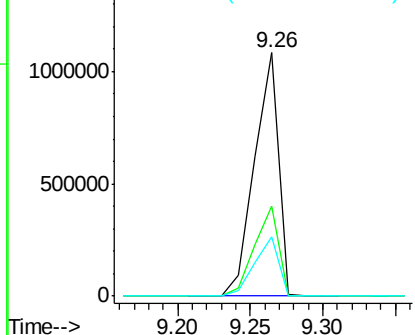


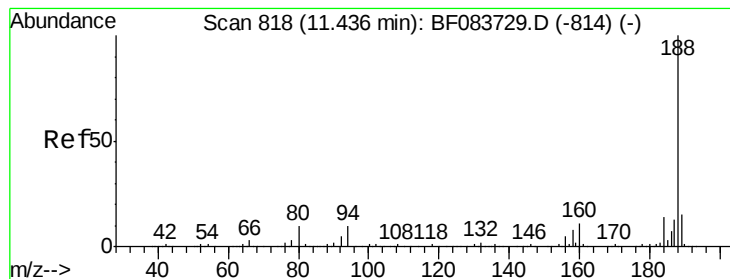
#44  
 2-Fluorobiphenyl  
 Concen: 87.23 ng  
 RT: 9.26 min Scan# 628  
 Delta R.T. -0.02 min  
 Lab File: BF083804.D  
 Acq: 15 Dec 2015 8:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.9  | 28.6  | 42.8  |
| 170     | 24.2  | 19.4  | 29.0  |



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





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.41 min Scan# 816

Delta R.T. -0.03 min

Lab File: BF083804.D

Acq: 15 Dec 2015 8:14

Instrument :

BNA\_F

ClientSampleId :

PB87256BL

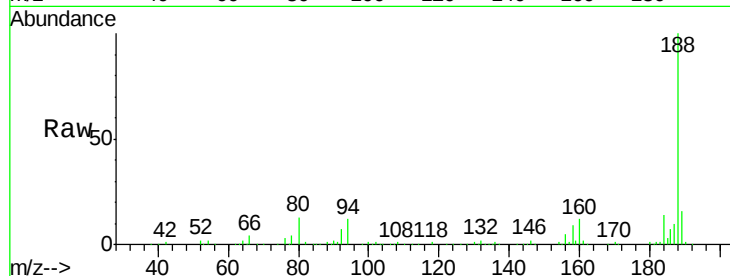
Tot Ion:188 Resp: 375952

Ion Ratio Lower Upper

188 100

94 12.0 9.4 14.2

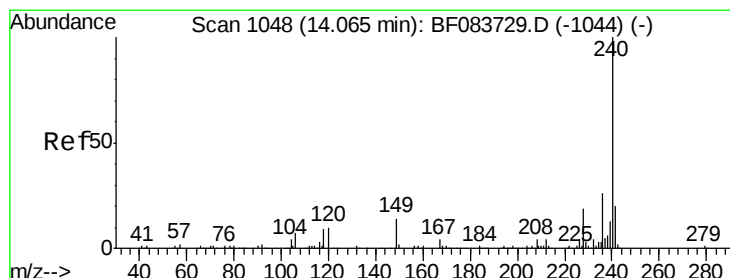
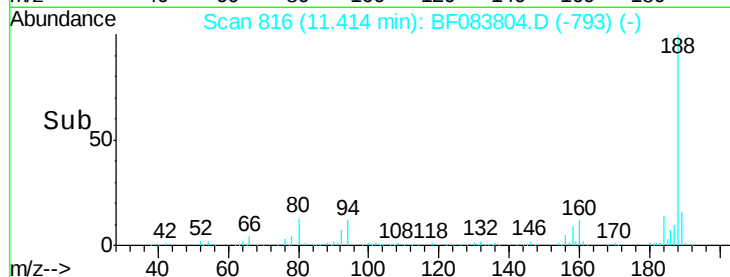
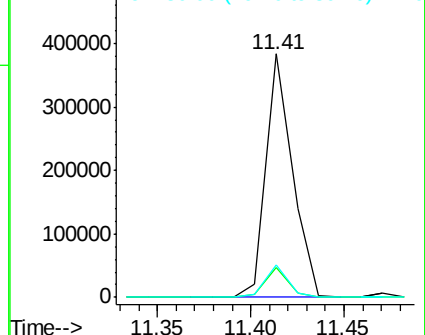
80 13.2 10.6 16.0



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.04 min Scan# 1046

Delta R.T. -0.03 min

Lab File: BF083804.D

Acq: 15 Dec 2015 8:14

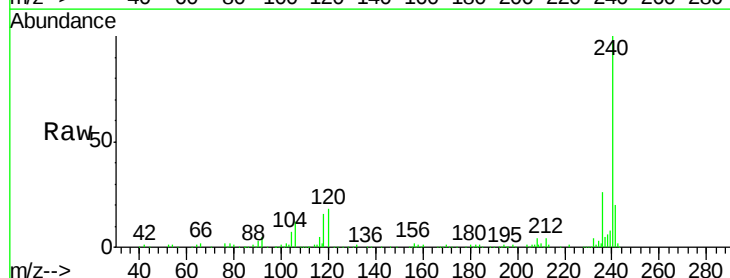
Tgt Ion:240 Resp: 319949

Ion Ratio Lower Upper

240 100

120 17.6 8.1 12.1#

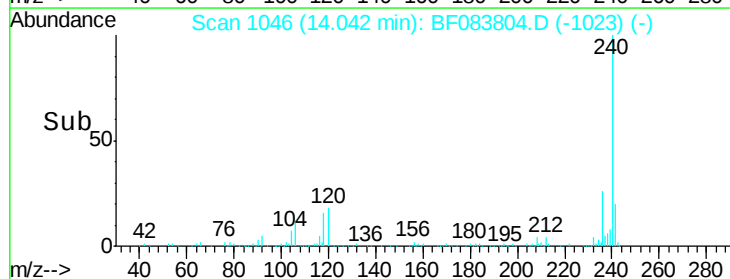
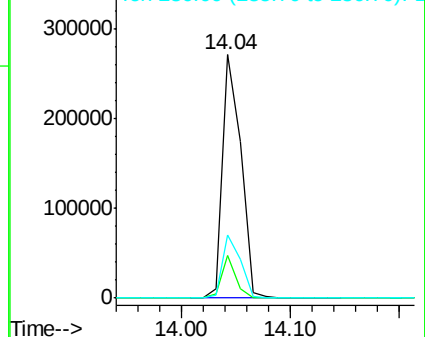
236 25.9 20.8 31.2

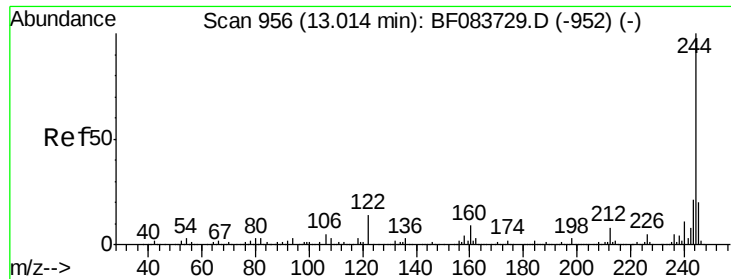


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



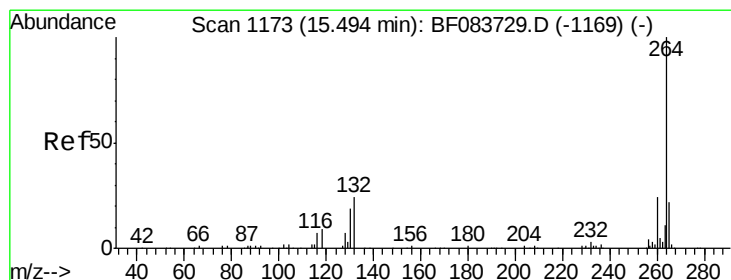
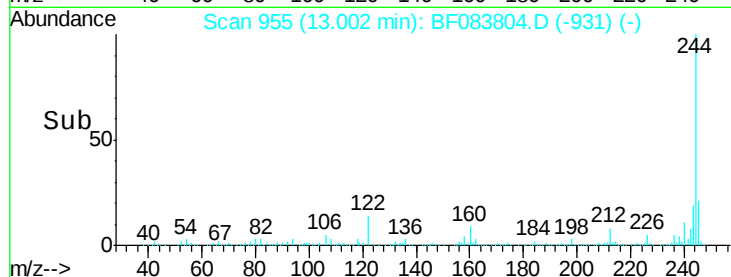
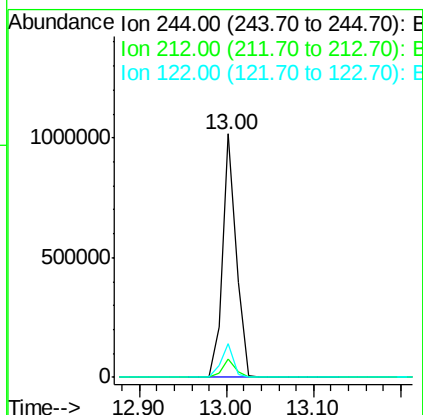
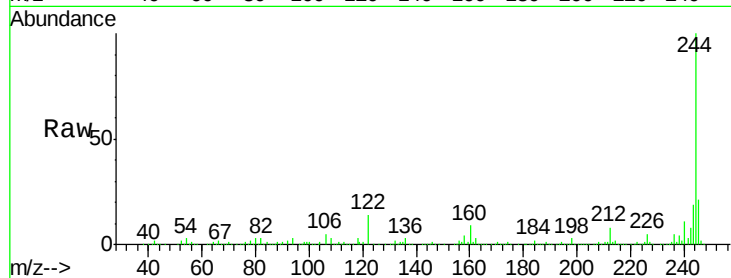


#78  
 Terphenyl-d14  
 Concen: 75.64 ng  
 RT: 13.00 min Scan# 955  
 Delta R.T. -0.02 min  
 Lab File: BF083804.D  
 Acq: 15 Dec 2015 8:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB87256BL

Tot Ion:244 Resp: 1125033  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 7.6   | 6.1   | 9.1   |
| 122 | 13.6  | 11.0  | 16.6  |



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.48 min Scan# 1172  
 Delta R.T. -0.02 min  
 Lab File: BF083804.D  
 Acq: 15 Dec 2015 8:14

Tgt Ion:264 Resp: 251034  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.7  | 19.4  | 29.0  |
| 265 | 21.7  | 17.8  | 26.6  |

