

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050316\  
 Data File : BF086661.D  
 Acq On : 4 May 2016 00:26  
 Operator : UM/SJ  
 Sample : H2716-06  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 26WARD-3-CS-6(12-25FTBGS)

Quant Time: May 04 05:37:44 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF042716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 27 14:20:52 2016  
 Response via : Initial Calibration

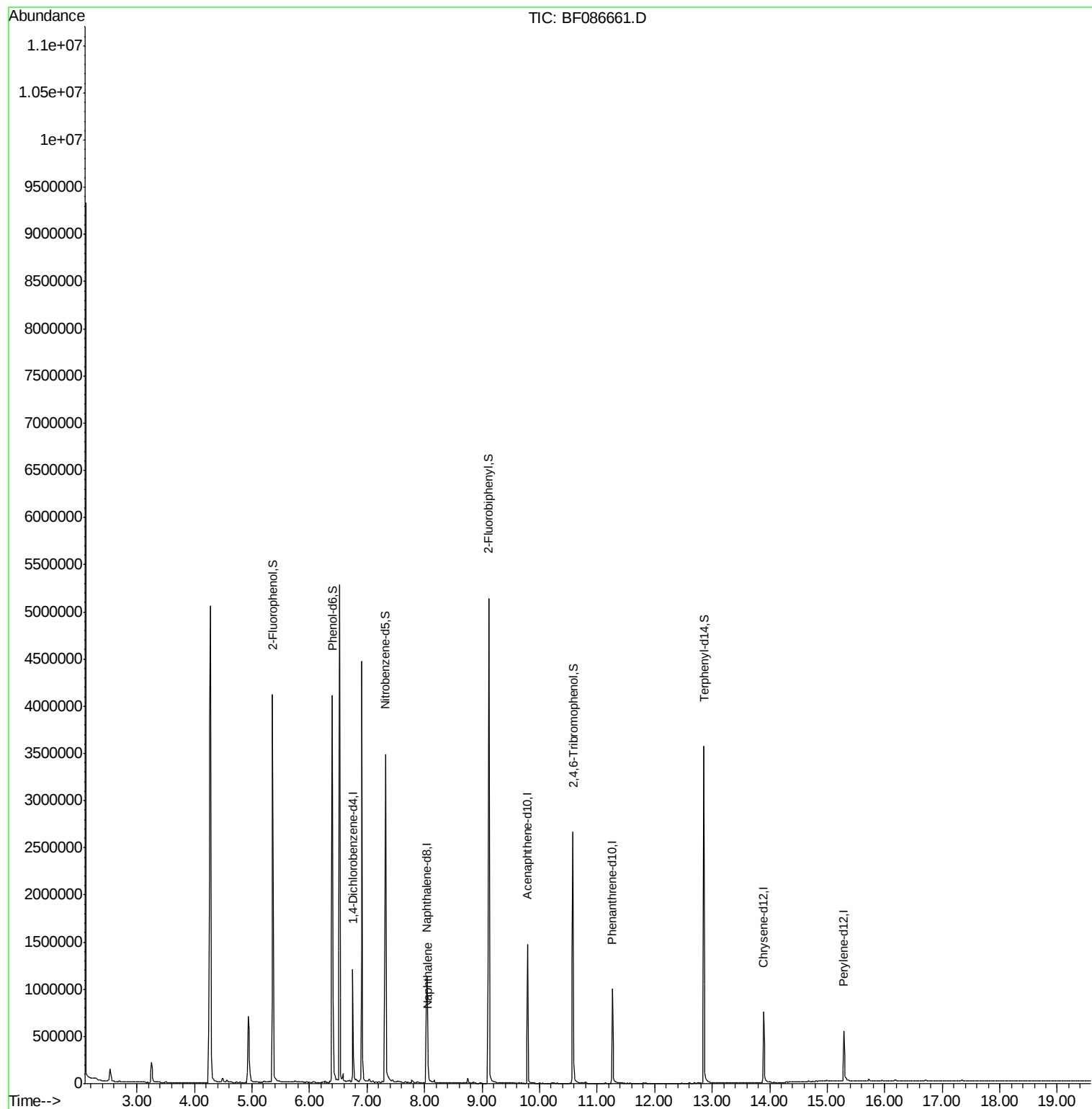
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)     |
|-----------------------------|-------|------|----------|--------|-------|--------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.75  | 152  | 171786   | 20.00  | ng    | -0.06        |
| 21) Naphthalene-d8          | 8.04  | 136  | 689174   | 20.00  | ng    | -0.06        |
| 38) Acenaphthene-d10        | 9.79  | 164  | 292377   | 20.00  | ng    | -0.06        |
| 63) Phenanthrene-d10        | 11.27 | 188  | 434515   | 20.00  | ng    | -0.06        |
| 75) Chrysene-d12            | 13.89 | 240  | 337340   | 20.00  | ng    | -0.07        |
| 86) Perylene-d12            | 15.29 | 264  | 249893   | 20.00  | ng    | -0.07        |
| System Monitoring Compounds |       |      |          |        |       |              |
| 5) 2-Fluorophenol           | 5.36  | 112  | 1321300  | 132.67 | ng    | -0.03        |
| 7) Phenol-d6                | 6.40  | 99   | 1497918  | 107.76 | ng    | -0.05        |
| 23) Nitrobenzene-d5         | 7.32  | 82   | 1229368  | 96.15  | ng    | -0.06        |
| 41) 2,4,6-Tribromophenol    | 10.58 | 330  | 346048   | 112.23 | ng    | -0.06        |
| 44) 2-Fluorobiphenyl        | 9.12  | 172  | 1621462  | 100.89 | ng    | -0.06        |
| 78) Terphenyl-d14           | 12.85 | 244  | 1188449  | 77.62  | ng    | -0.06        |
| Target Compounds            |       |      |          |        |       |              |
| 31) Naphthalene             | 8.05  | 128  | 146557   | 4.18   | ng    | Qvalue<br>99 |

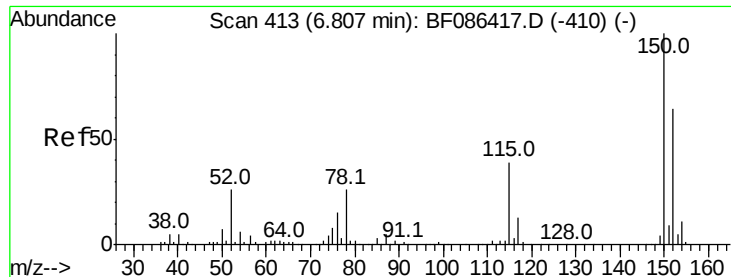
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050316\  
Data File : BF086661.D  
Acq On : 4 May 2016 00:26  
Operator : UM/SJ  
Sample : H2716-06  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
26WARD-3-CS-6(12-25FTBGS)

Quant Time: May 04 05:37:44 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF042716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Apr 27 14:20:52 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.75 min Scan# 408

Delta R.T. -0.06 min

Lab File: BF086661.D

Acq: 4 May 2016 00:26

Instrument :

BNA\_F

ClientSampleId :

26WARD-3-CS-6(12-25FTBGS)

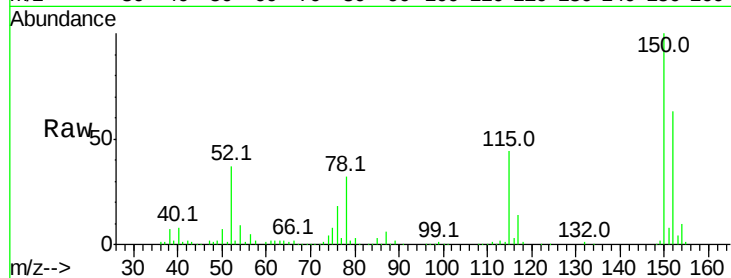
Tot Ion:152 Resp: 171786

Ion Ratio Lower Upper

152 100

150 158.1 125.8 188.6

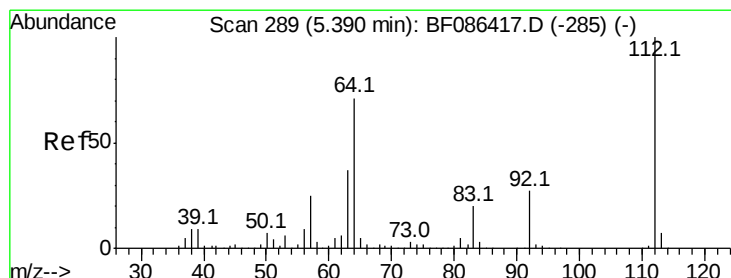
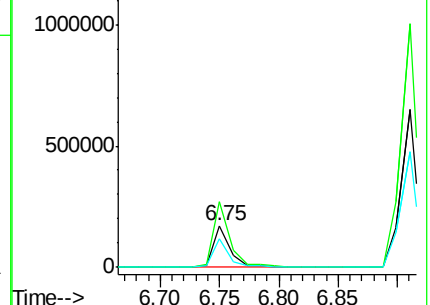
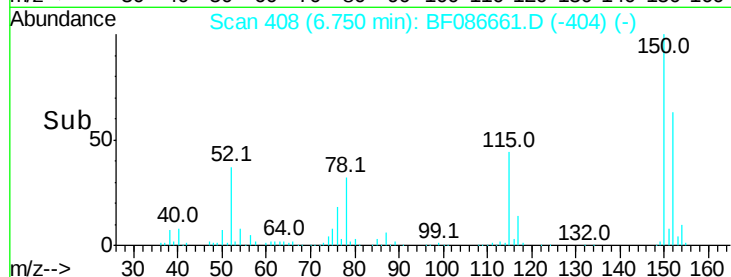
115 69.3 51.5 77.3



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: 132.67 ng

RT: 5.36 min Scan# 286

Delta R.T. -0.03 min

Lab File: BF086661.D

Acq: 4 May 2016 00:26

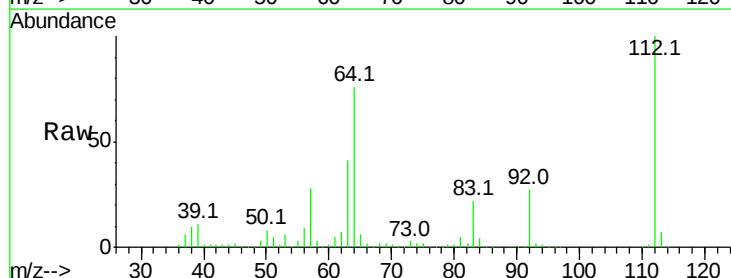
Tgt Ion:112 Resp: 1321300

Ion Ratio Lower Upper

112 100

64 75.6 52.1 78.1

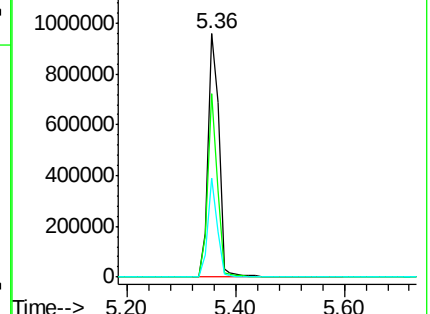
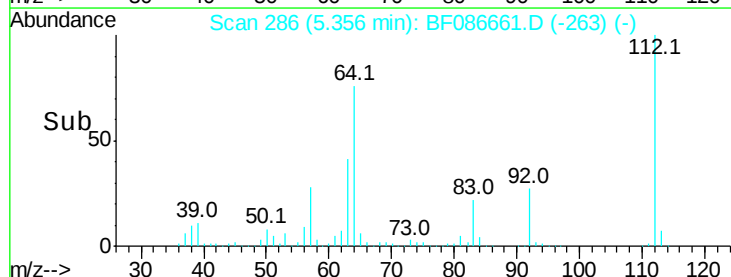
63 40.7 25.7 38.5#

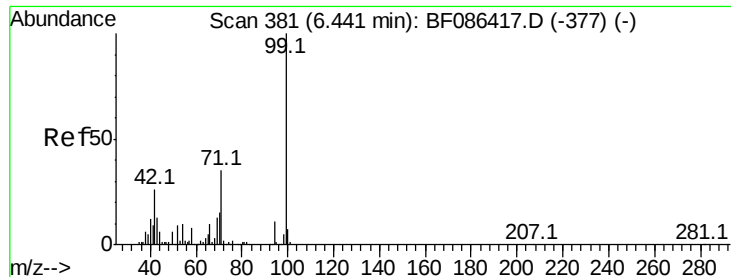


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 107.76 ng

RT: 6.40 min Scan# 377

Delta R.T. -0.05 min

Lab File: BF086661.D

Acq: 4 May 2016 00:26

Instrument :

BNA\_F

ClientSampleId :

26WARD-3-CS-6(12-25FTBGS)

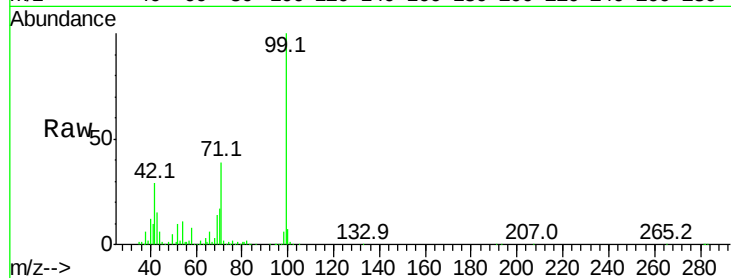
Tot Ion: 99 Resp: 1497918

Ion Ratio Lower Upper

99 100

42 29.3 13.6 20.4#

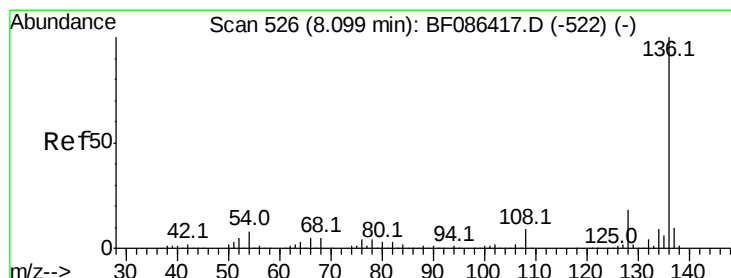
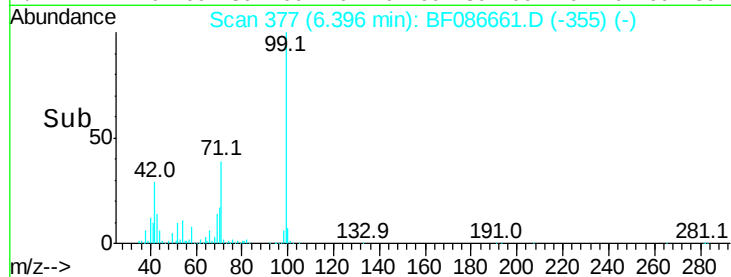
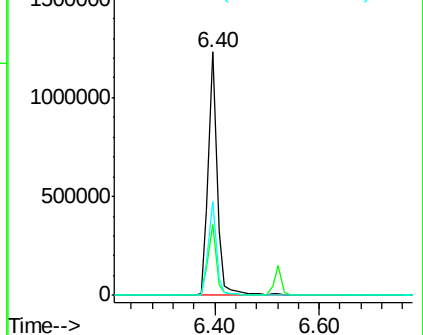
71 38.6 24.6 36.8#



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: 8.04 min Scan# 521

Delta R.T. -0.06 min

Lab File: BF086661.D

Acq: 4 May 2016 00:26

Tgt Ion: 136 Resp: 689174

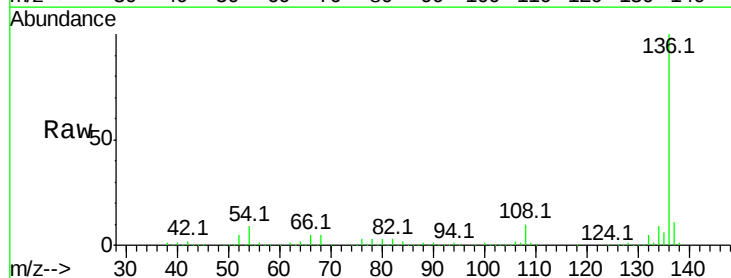
Ion Ratio Lower Upper

136 100

137 10.6 8.8 13.2

54 8.6 5.0 7.4#

68 5.4 4.4 6.6

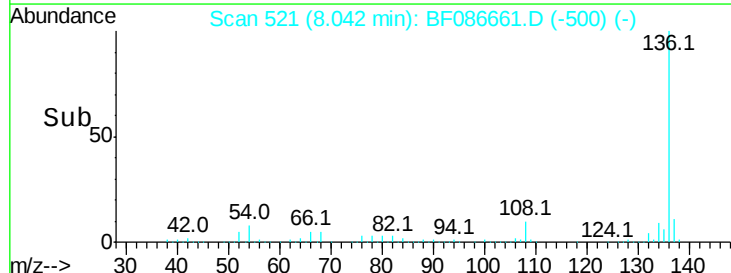
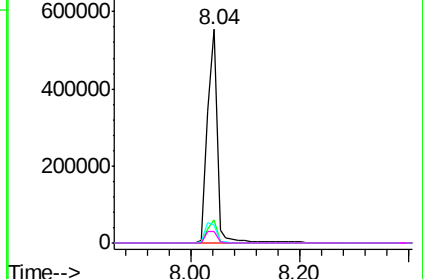


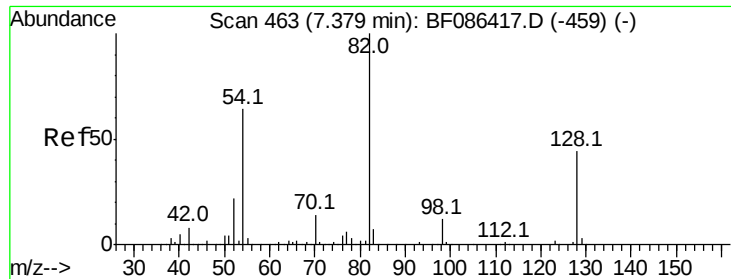
Abundance Ion 136.00 (135.70 to 136.70): E

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



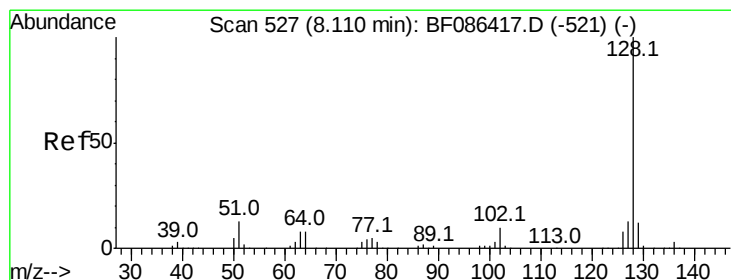
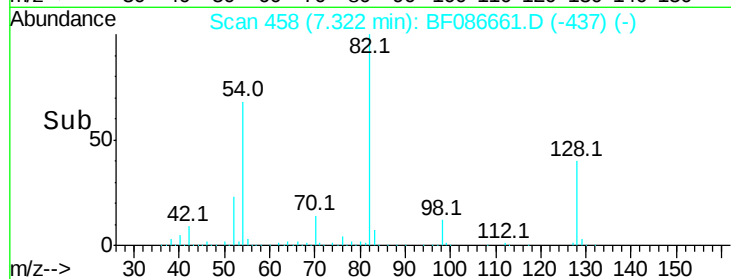
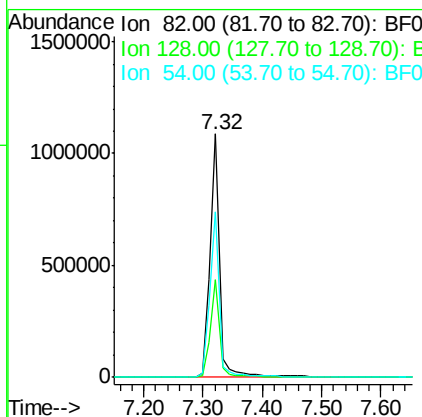
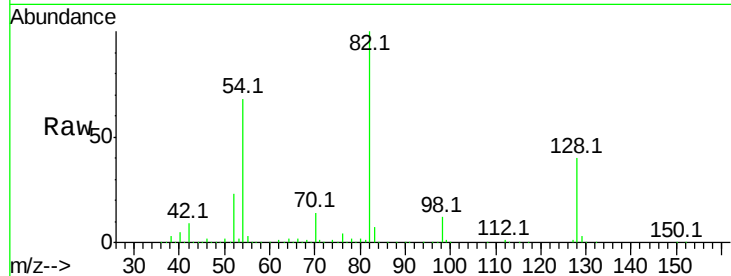


#23  
 Nitrobenzene-d5  
 Concen: 96.15 ng  
 RT: 7.32 min Scan# 458  
 Delta R.T. -0.06 min  
 Lab File: BF086661.D  
 Acq: 4 May 2016 00:26

Instrument :  
 BNA\_F  
 ClientSampleId :  
 26WARD-3-CS-6(12-25FTBGS)

Tot Ion: 82 Resp: 1229368  

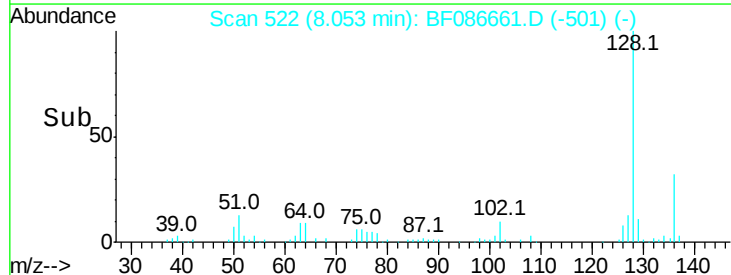
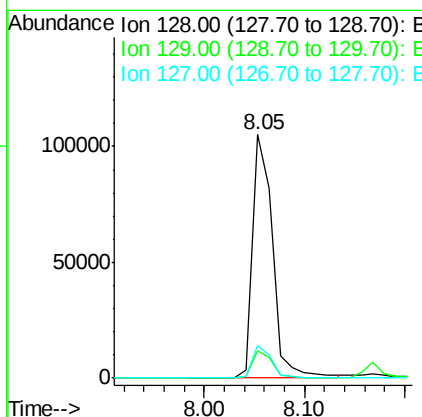
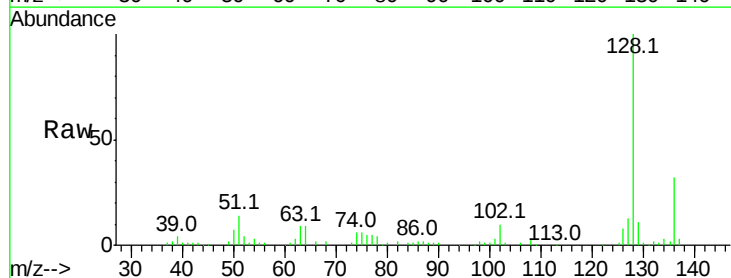
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 40.3  | 40.6  | 61.0# |
| 54  | 67.8  | 38.1  | 57.1# |

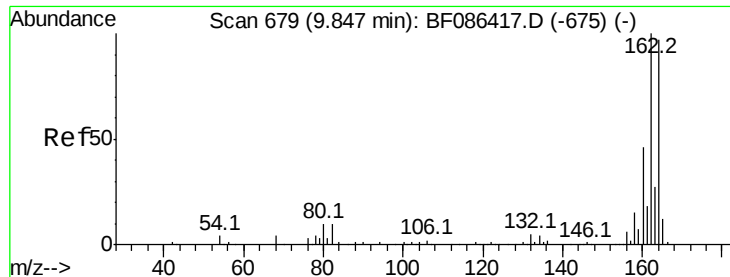


#31  
 Naphthalene  
 Concen: 4.18 ng  
 RT: 8.05 min Scan# 522  
 Delta R.T. -0.06 min  
 Lab File: BF086661.D  
 Acq: 4 May 2016 00:26

Tgt Ion: 128 Resp: 146557  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 129 | 11.2  | 8.6   | 13.0  |
| 127 | 13.4  | 10.8  | 16.2  |





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.79 min Scan# 674

Delta R.T. -0.06 min

Lab File: BF086661.D

Acq: 4 May 2016 00:26

Instrument :

BNA\_F

ClientSampleId :

26WARD-3-CS-6(12-25FTBGS)

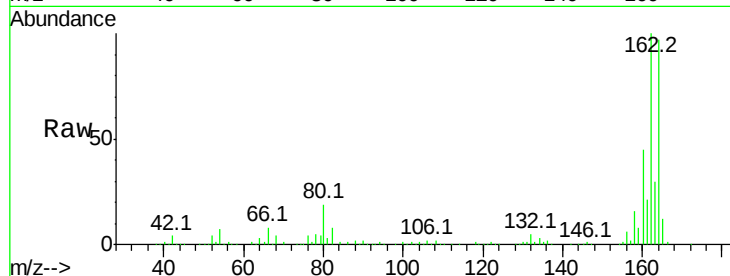
Tot Ion:164 Resp: 292377

Ion Ratio Lower Upper

164 100

162 103.6 82.8 124.2

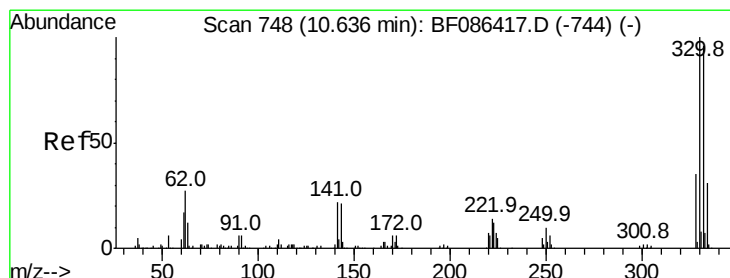
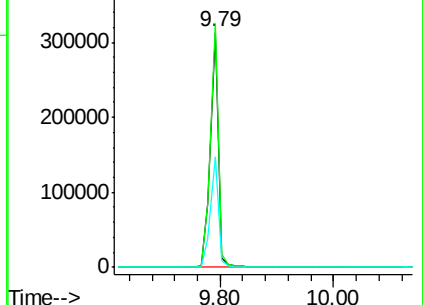
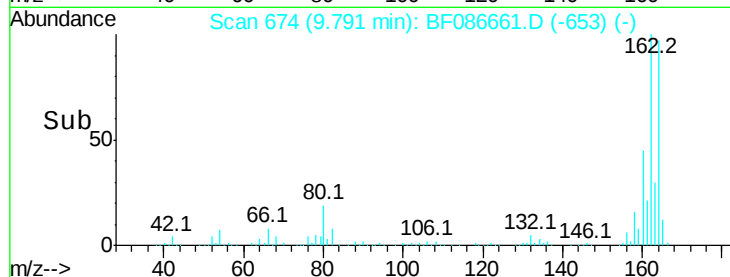
160 46.8 36.9 55.3



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: 112.23 ng

RT: 10.58 min Scan# 743

Delta R.T. -0.06 min

Lab File: BF086661.D

Acq: 4 May 2016 00:26

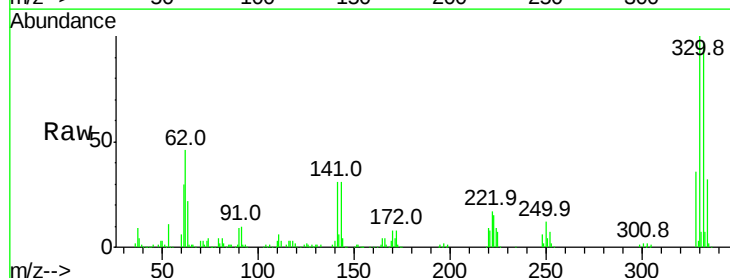
Tgt Ion:330 Resp: 346048

Ion Ratio Lower Upper

330 100

332 96.7 79.0 118.4

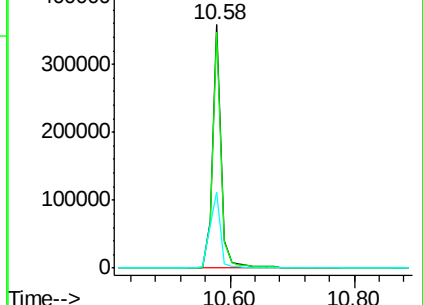
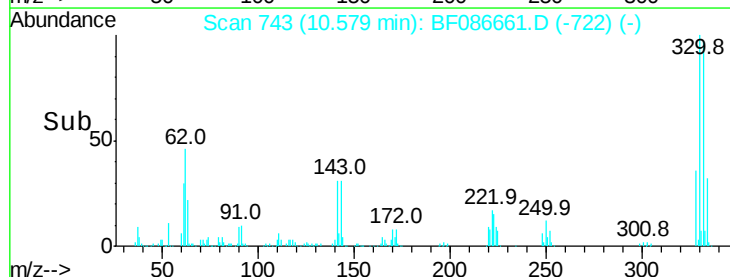
141 39.0 31.2 46.8

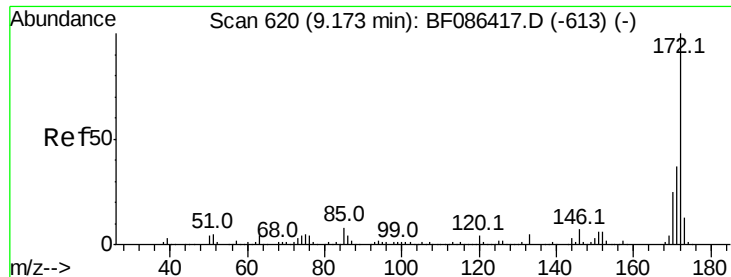


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



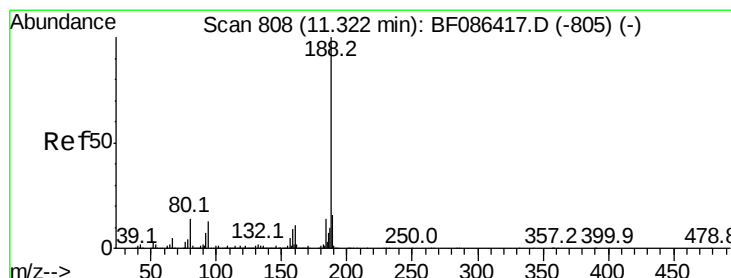
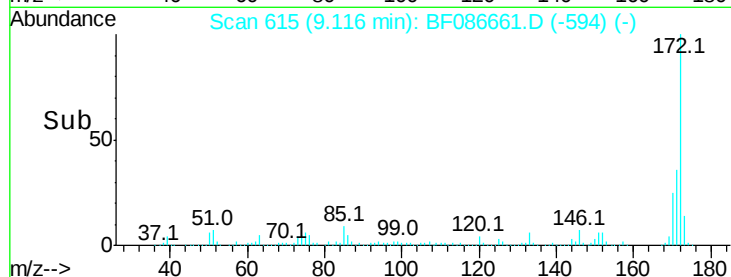
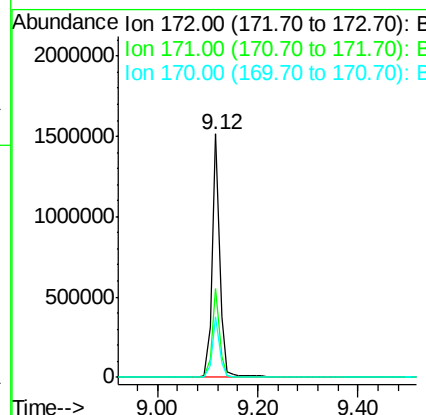
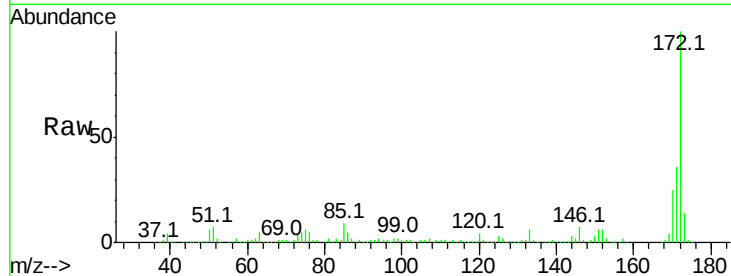


#44  
 2-Fluorobiphenyl  
 Concen: 100.89 ng  
 RT: 9.12 min Scan# 615  
 Delta R.T. -0.06 min  
 Lab File: BF086661.D  
 Acq: 4 May 2016 00:26

Instrument :  
 BNA\_F  
 ClientSampleId :  
 26WARD-3-CS-6(12-25FTBGS)

Tot Ion:172 Resp: 1621462  

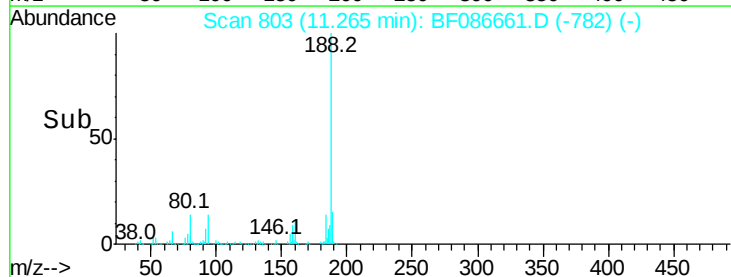
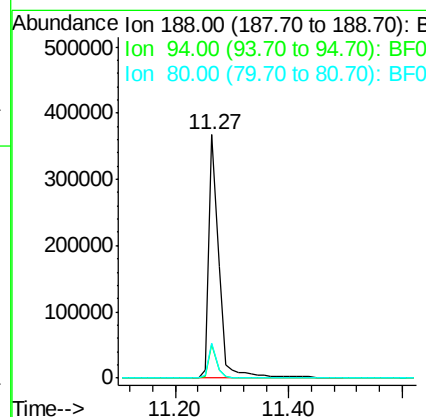
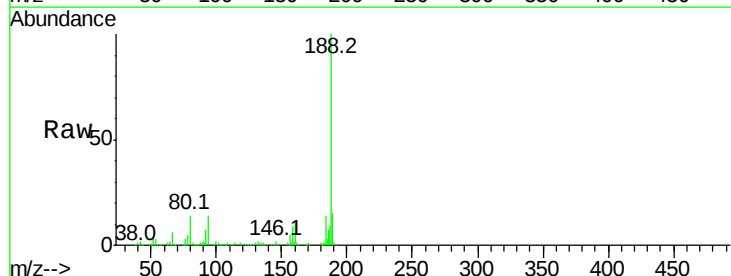
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 36.5  | 29.0  | 43.6  |
| 170 | 24.9  | 19.8  | 29.8  |

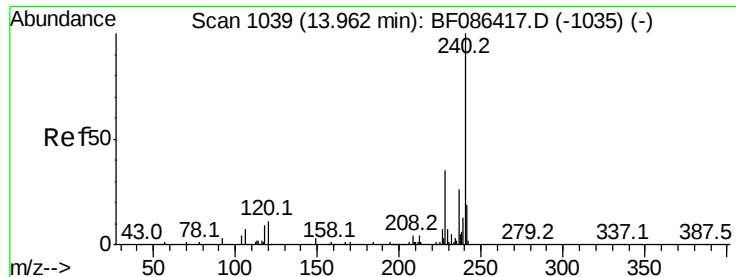


#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.27 min Scan# 803  
 Delta R.T. -0.06 min  
 Lab File: BF086661.D  
 Acq: 4 May 2016 00:26

Tgt Ion:188 Resp: 434515  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 188 | 100   |       |       |
| 94  | 13.7  | 6.8   | 10.2# |
| 80  | 14.5  | 7.1   | 10.7# |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.89 min Scan# 1033

Delta R.T. -0.07 min

Lab File: BF086661.D

Acq: 4 May 2016 00:26

Instrument :

BNA\_F

ClientSampleId :

26WARD-3-CS-6(12-25FTBGS)

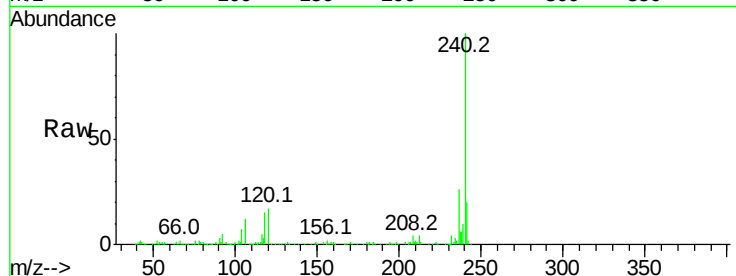
Tot Ion:240 Resp: 337340

Ion Ratio Lower Upper

240 100

120 17.0 11.2 16.8#

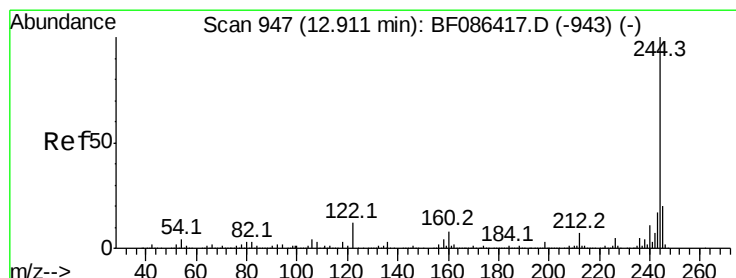
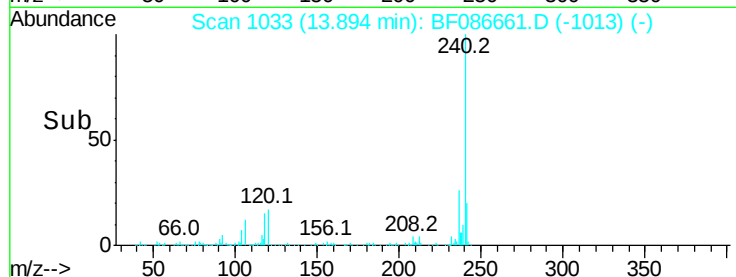
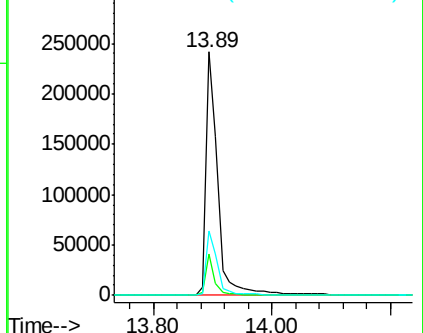
236 26.4 21.2 31.8



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: 77.62 ng

RT: 12.85 min Scan# 942

Delta R.T. -0.06 min

Lab File: BF086661.D

Acq: 4 May 2016 00:26

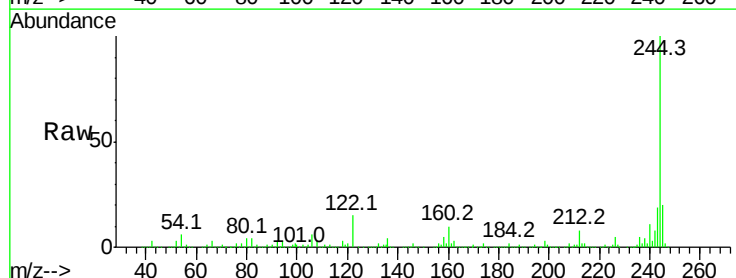
Tgt Ion:244 Resp: 1188449

Ion Ratio Lower Upper

244 100

212 8.1 6.2 9.2

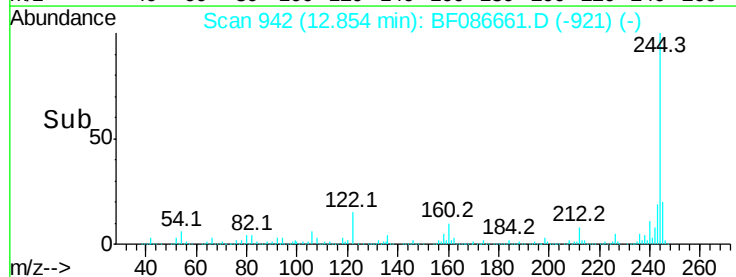
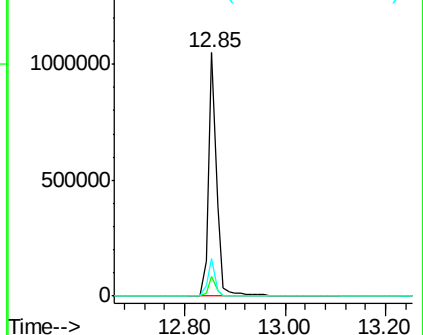
122 15.4 12.0 18.0

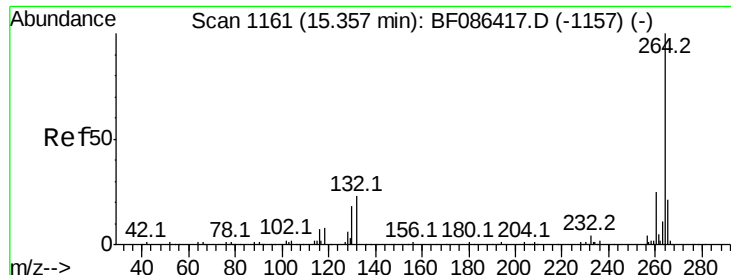


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

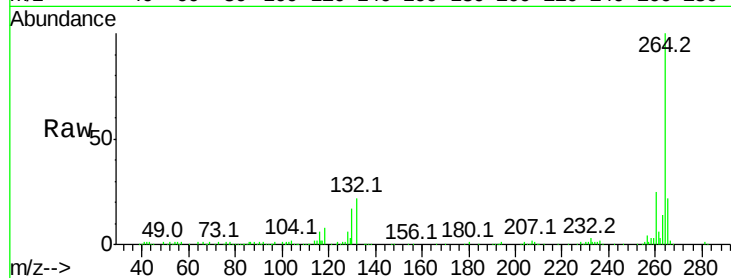




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.29 min Scan# 1155  
Delta R.T. -0.07 min  
Lab File: BF086661.D  
Acq: 4 May 2016 00:26

Instrument :  
BNA\_F  
ClientSampleId :  
26WARD-3-CS-6(12-25FTBGS)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.5  | 19.5  | 29.3  |
| 265     | 21.5  | 17.3  | 25.9  |



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

