

Data Path : Z:\HPCHEM1\BNA F\DATA\BF123015\  
 Data File : BF084180.D  
 Acq On : 31 Dec 2015 7:28  
 Operator : UM/SJ  
 Sample : G4979-06  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GUNHILL-FIELDBLANK1-122815

Quant Time: Dec 31 16:09:17 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF123015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 31 04:29:55 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.90  | 152  | 317256   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.19  | 136  | 1305488  | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.94  | 164  | 603340   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10        | 11.42 | 188  | 1179394  | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 14.05 | 240  | 947164   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12            | 15.49 | 264  | 686632   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.49  | 112  | 1132251  | 57.23  | ng    | 0.00     |
| 7) Phenol-d6                | 6.52  | 99   | 1028966  | 40.18  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.47  | 82   | 2244827  | 101.60 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.73 | 330  | 799713   | 132.80 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.26  | 172  | 2993150  | 84.70  | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.01 | 244  | 3224261  | 80.18  | ng    | 0.00     |

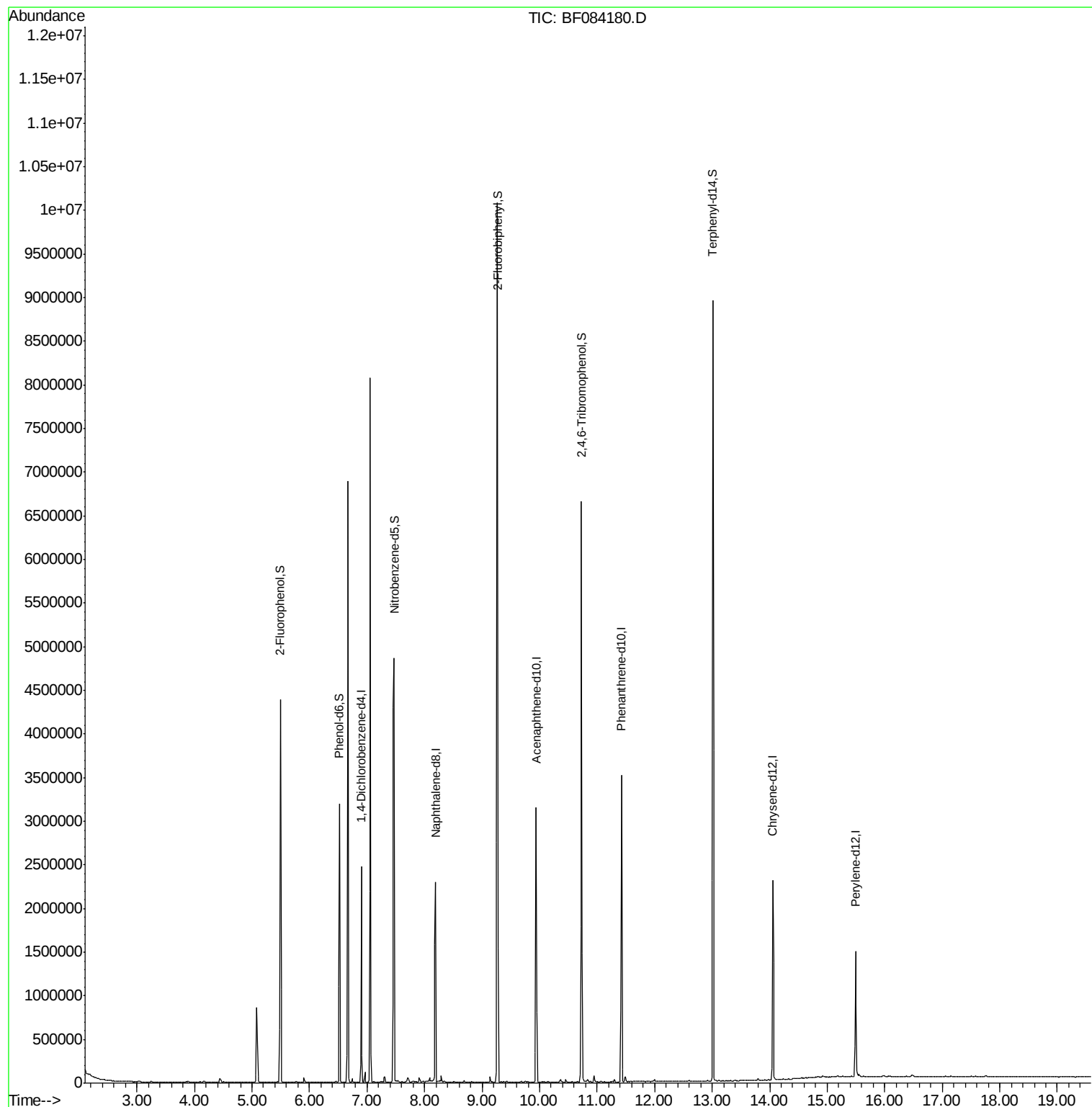
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

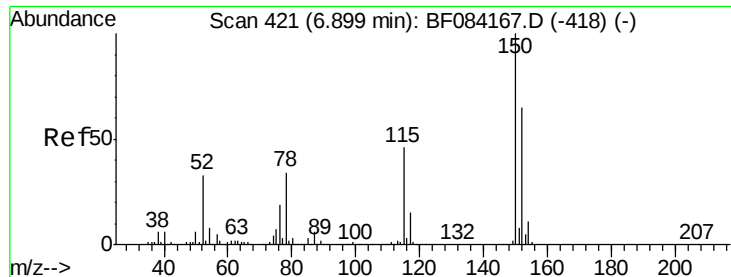
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF123015\  
Data File : BF084180.D  
Acq On : 31 Dec 2015 7:28  
Operator : UM/SJ  
Sample : G4979-06  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GUNHILL-FIELDBLANK1-122815

Quant Time: Dec 31 16:09:17 2015  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF123015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 31 04:29:55 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.90 min Scan# 421

Delta R.T. 0.00 min

Lab File: BF084180.D

Acq: 31 Dec 2015 7:28

Instrument :

BNA\_F

ClientSampleId :

GUNHILL-FIELDBLANK1-122815

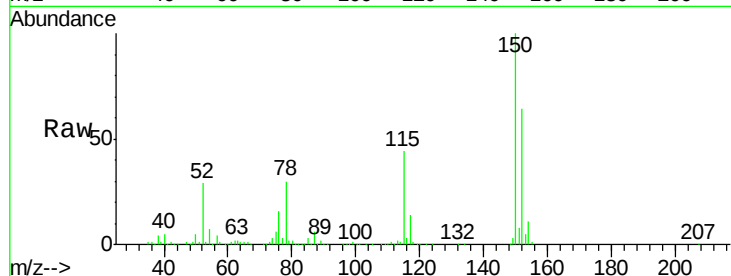
Tot Ion:152 Resp: 317256

Ion Ratio Lower Upper

152 100

150 157.4 123.8 185.8

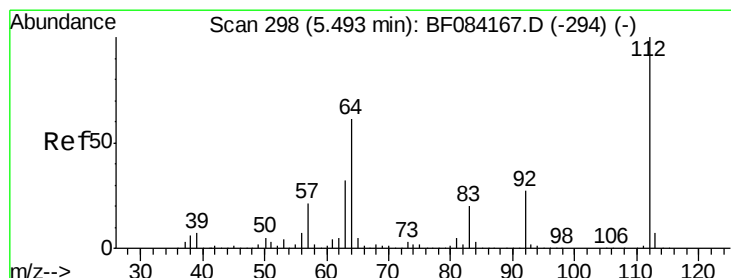
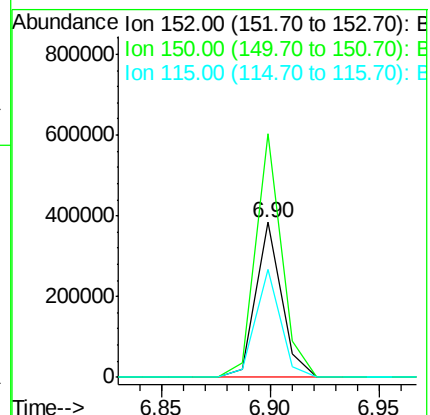
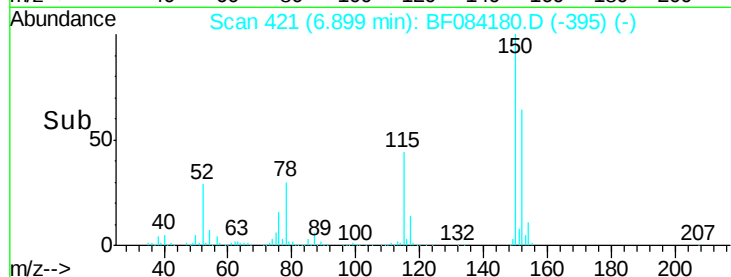
115 69.7 57.1 85.7



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: 57.23 ng

RT: 5.49 min Scan# 298

Delta R.T. 0.00 min

Lab File: BF084180.D

Acq: 31 Dec 2015 7:28

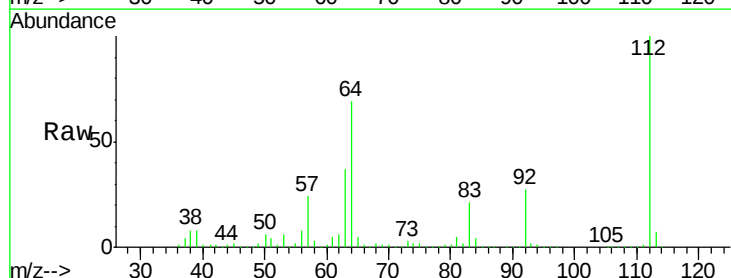
Tgt Ion:112 Resp: 1132251

Ion Ratio Lower Upper

112 100

64 69.3 48.7 73.1

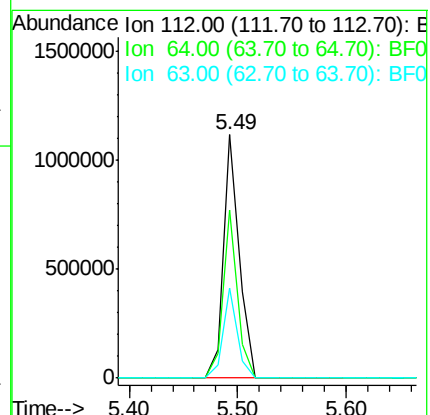
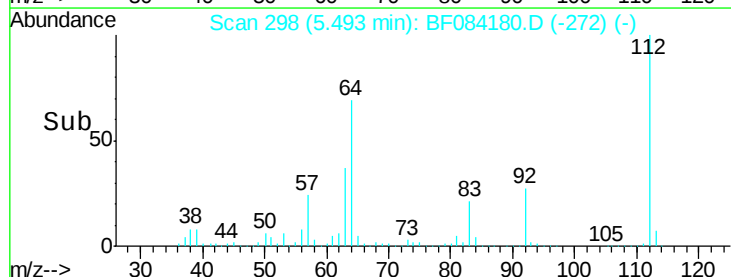
63 37.2 25.9 38.9

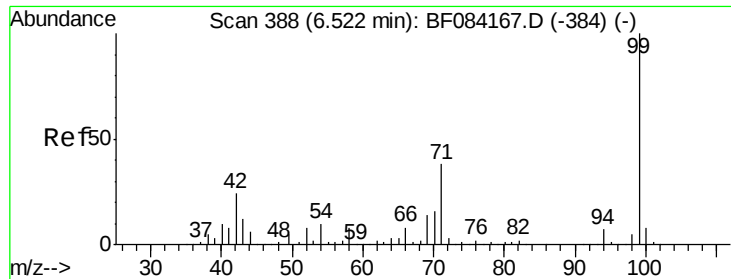


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 40.18 ng

RT: 6.52 min Scan# 388

Delta R.T. 0.00 min

Lab File: BF084180.D

Acq: 31 Dec 2015 7:28

Instrument :

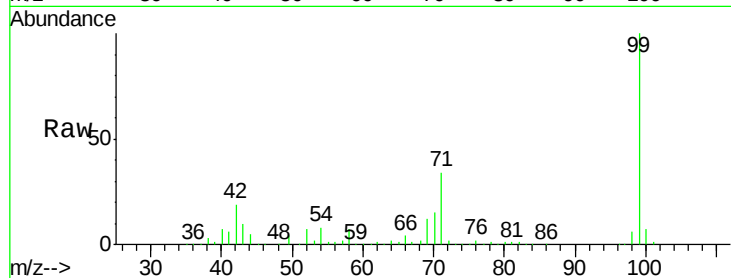
BNA\_F

ClientSampleId :

GUNHILL-FIELDBLANK1-122815

Tot Ion: 99 Resp: 1028966

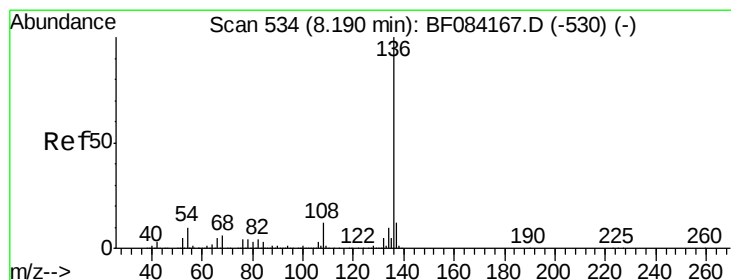
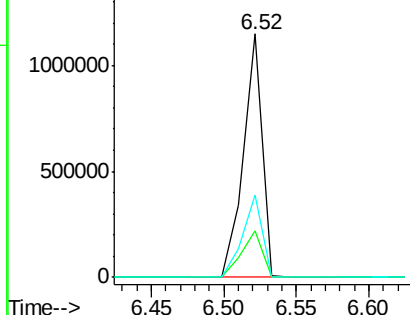
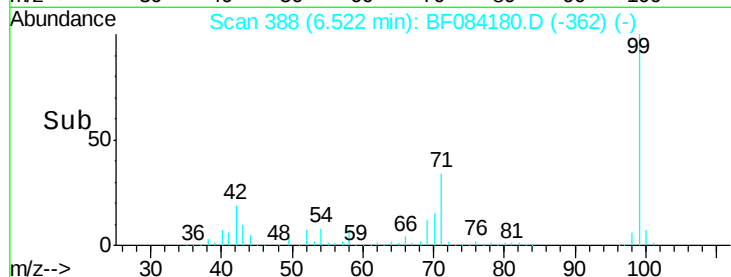
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 19.0  | 19.2  | 28.8# |
| 71  | 33.6  | 30.4  | 45.6  |



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: 8.19 min Scan# 534

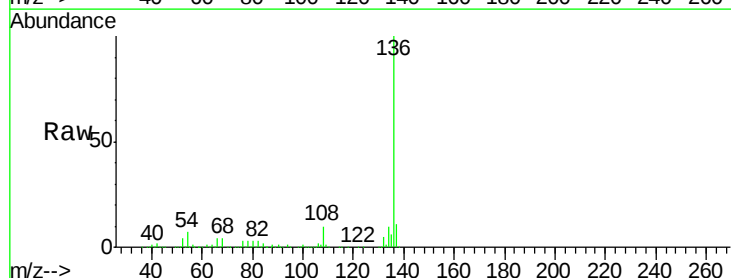
Delta R.T. 0.00 min

Lab File: BF084180.D

Acq: 31 Dec 2015 7:28

Tgt Ion: 136 Resp: 1305488

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 11.3  | 9.4   | 14.0  |
| 54  | 6.8   | 7.6   | 11.4# |
| 68  | 4.2   | 4.6   | 6.8#  |

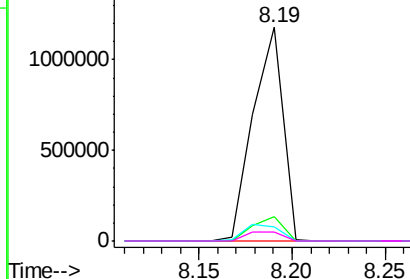
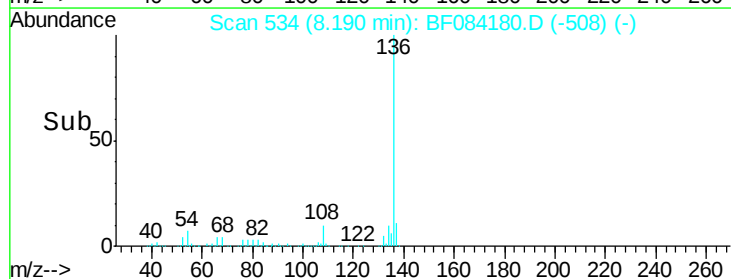


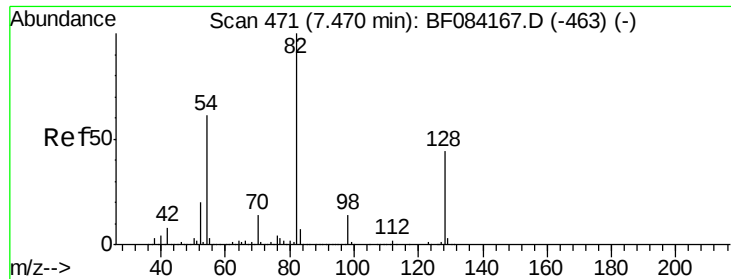
Abundance Ion 136.00 (135.70 to 136.70): E

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



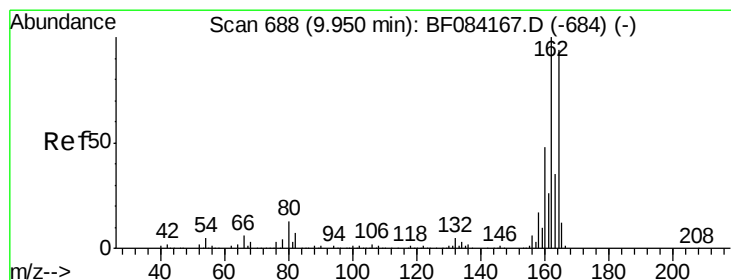
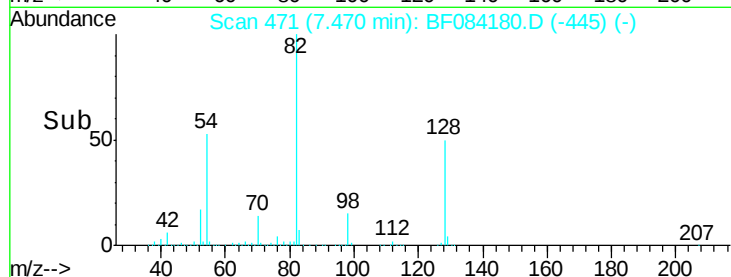
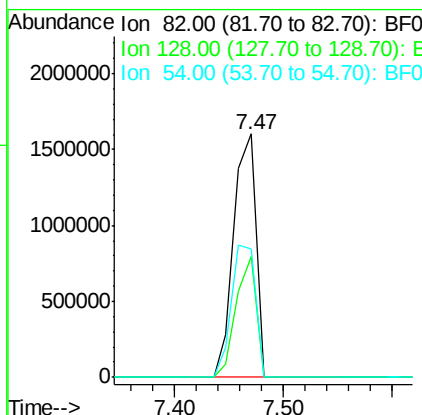
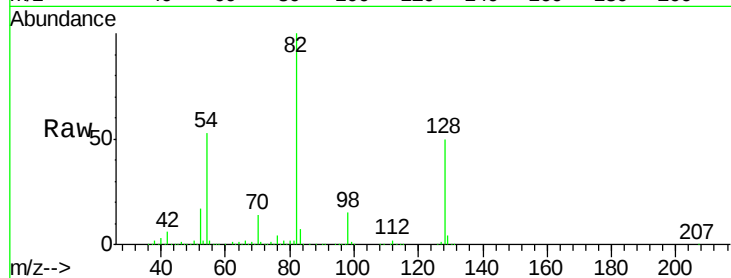


#23  
 Nitrobenzene-d5  
 Concen: 101.60 ng  
 RT: 7.47 min Scan# 471  
 Delta R.T. 0.00 min  
 Lab File: BF084180.D  
 Acq: 31 Dec 2015 7:28

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GUNHILL-FIELDBLANK1-122815

Tot Ion: 82 Resp: 2244827  

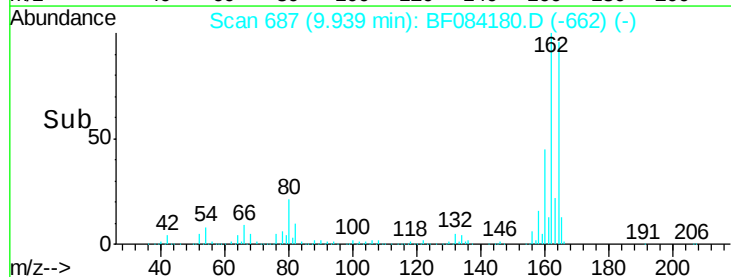
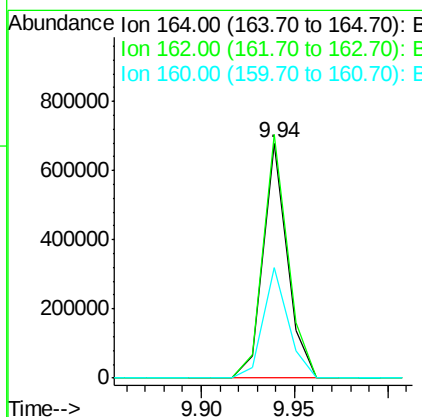
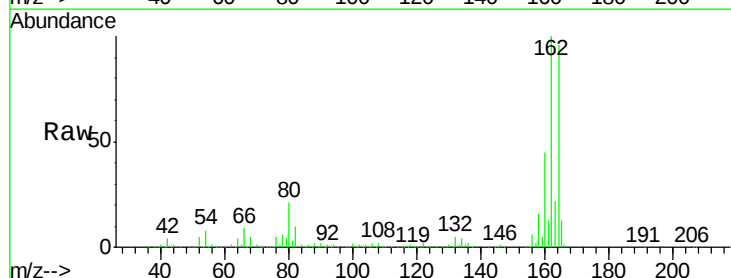
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 49.7  | 35.0  | 52.4  |
| 54  | 53.0  | 48.5  | 72.7  |

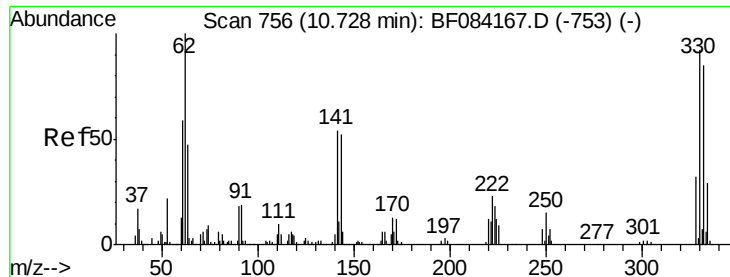


#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.94 min Scan# 687  
 Delta R.T. -0.01 min  
 Lab File: BF084180.D  
 Acq: 31 Dec 2015 7:28

Tgt Ion: 164 Resp: 603340  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 103.8 | 84.8  | 127.2 |
| 160 | 47.0  | 40.4  | 60.6  |

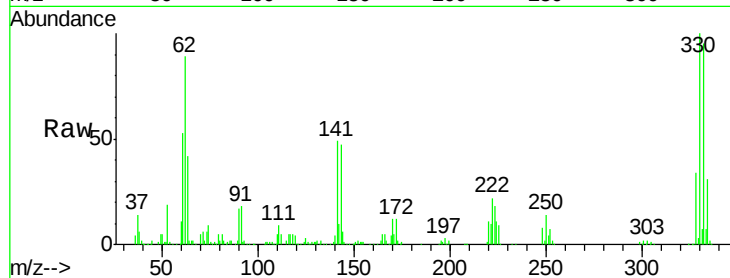




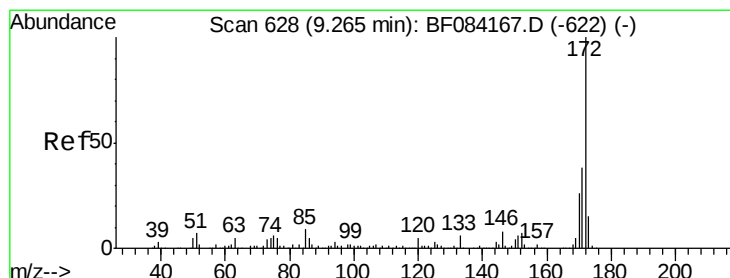
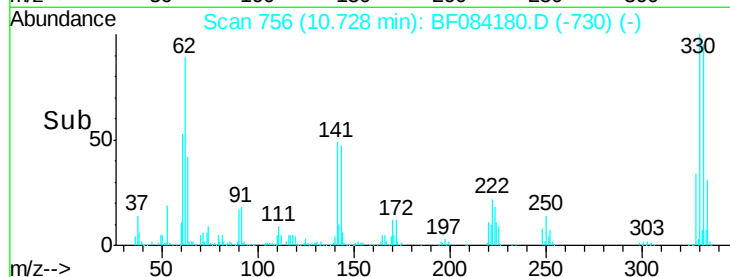
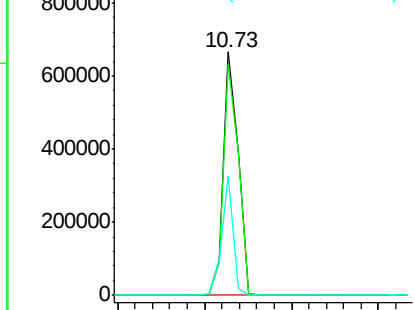
#41  
 2,4,6-Tribromophenol  
 Concen: 132.80 ng  
 RT: 10.73 min Scan# 756  
 Delta R.T. 0.00 min  
 Lab File: BF084180.D  
 Acq: 31 Dec 2015 7:28

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GUNHILL-FIELDBLANK1-122815

Tot Ion:330 Resp: 799713  
 Ion Ratio Lower Upper  
 330 100  
 332 96.4 76.2 114.2  
 141 38.6 31.3 46.9

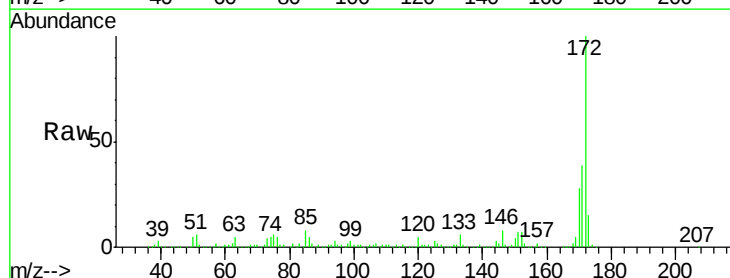


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

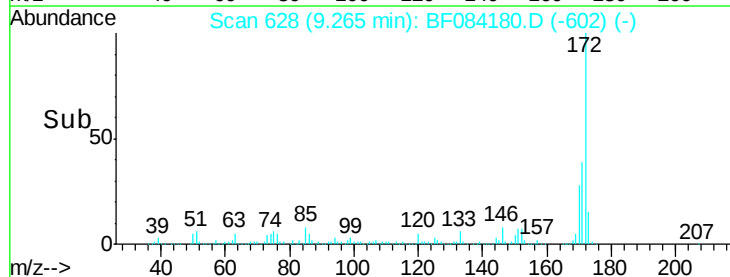
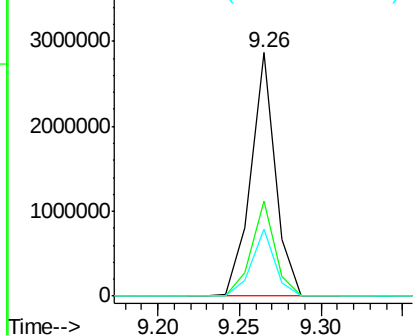


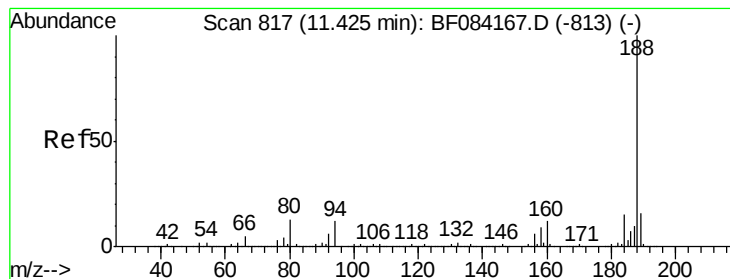
#44  
 2-Fluorobiphenyl  
 Concen: 84.70 ng  
 RT: 9.26 min Scan# 628  
 Delta R.T. 0.00 min  
 Lab File: BF084180.D  
 Acq: 31 Dec 2015 7:28

Tgt Ion:172 Resp: 2993150  
 Ion Ratio Lower Upper  
 172 100  
 171 39.2 30.6 46.0  
 170 27.5 20.6 30.8



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





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.42 min Scan# 817

Delta R.T. 0.00 min

Lab File: BF084180.D

Acq: 31 Dec 2015 7:28

Instrument :

BNA\_F

ClientSampleId :

GUNHILL-FIELDBLANK1-122815

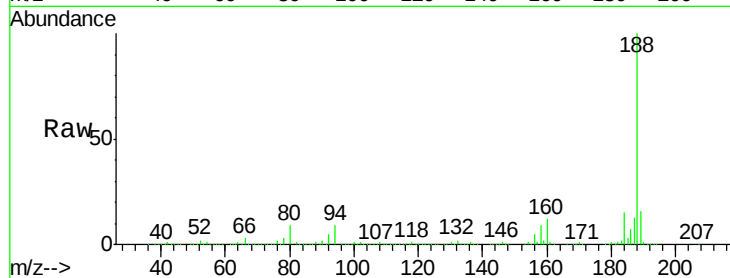
Tot Ion:188 Resp: 1179394

Ion Ratio Lower Upper

188 100

94 9.3 9.2 13.8

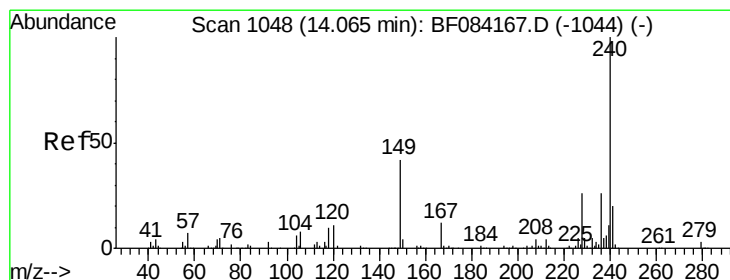
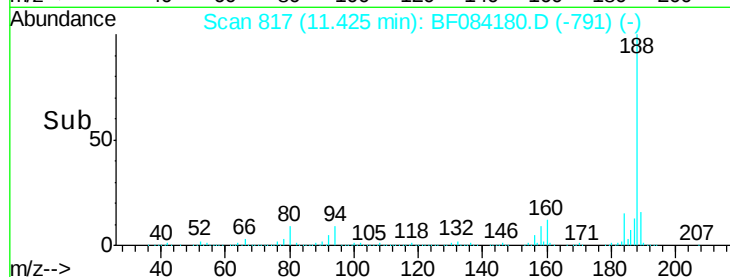
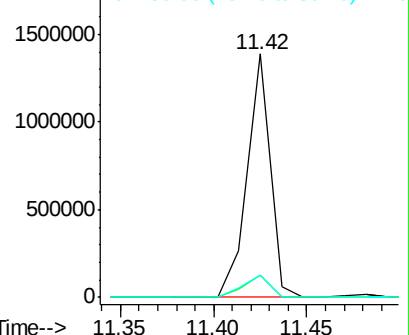
80 9.2 10.1 15.1#



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: 14.05 min Scan# 1047

Delta R.T. -0.01 min

Lab File: BF084180.D

Acq: 31 Dec 2015 7:28

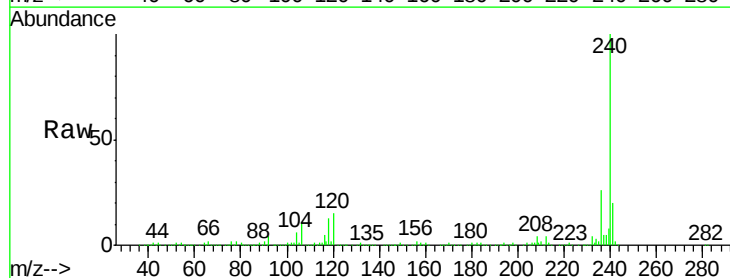
Tgt Ion:240 Resp: 947164

Ion Ratio Lower Upper

240 100

120 15.3 8.8 13.2#

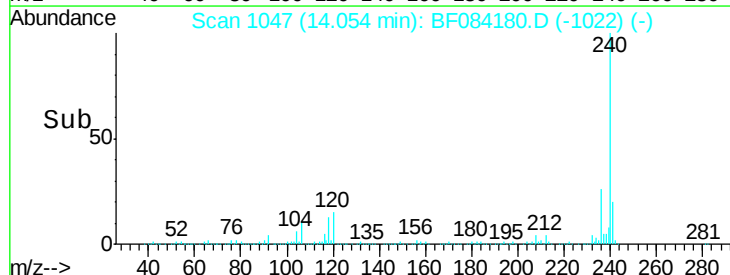
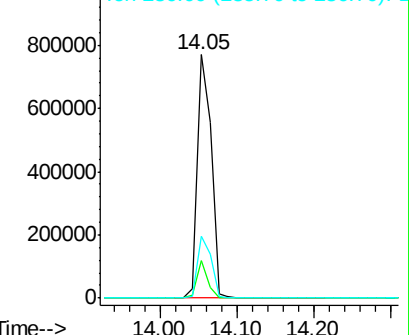
236 25.6 20.8 31.2

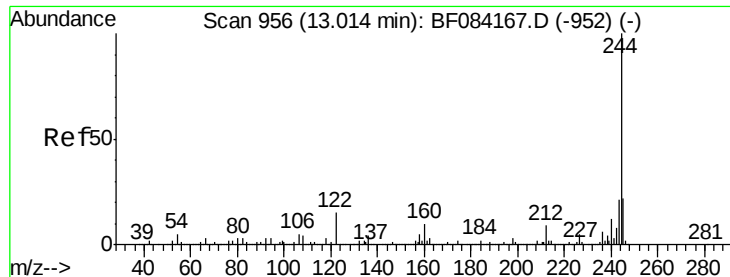


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 80.18 ng

RT: 13.01 min Scan# 956

Delta R.T. 0.00 min

Lab File: BF084180.D

Acq: 31 Dec 2015 7:28

Instrument :

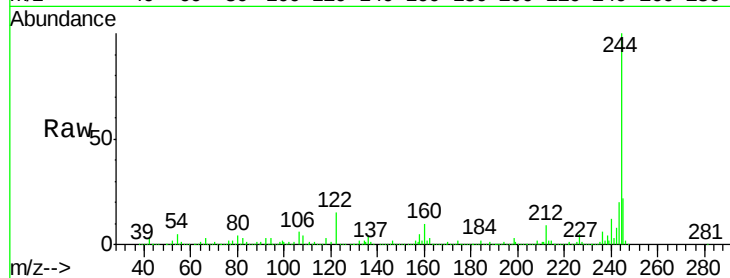
BNA\_F

ClientSampleId :

GUNHILL-FIELDBLANK1-122815

Tot Ion:244 Resp: 3224261

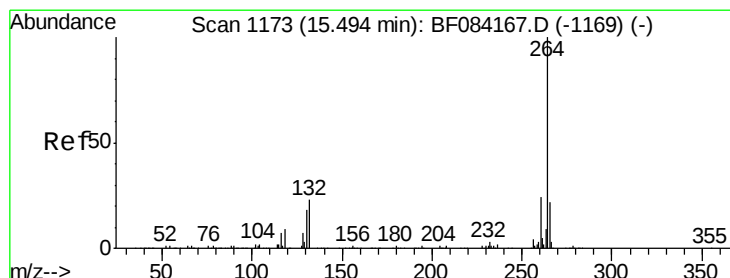
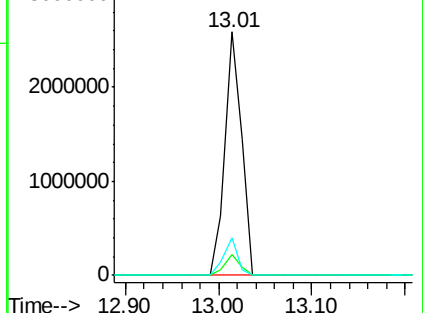
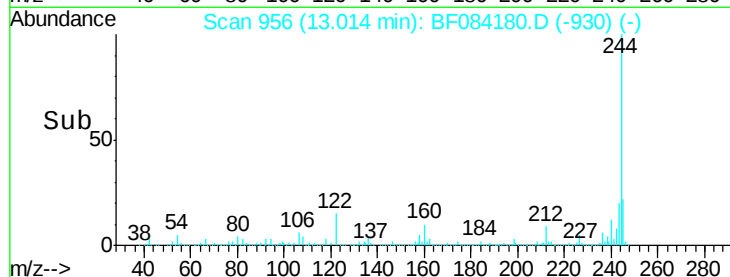
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 8.6   | 7.0   | 10.4  |
| 122 | 15.5  | 11.9  | 17.9  |



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

Perylene-d12

Concen: 20.00 ng

RT: 15.49 min Scan# 1173

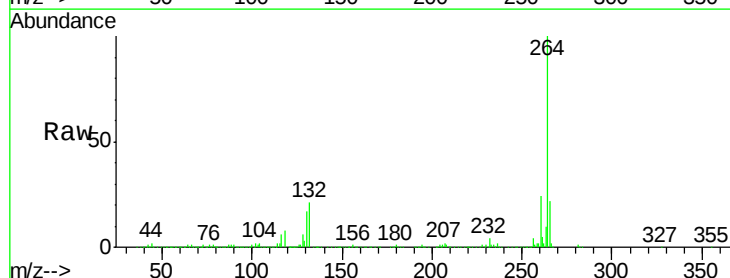
Delta R.T. 0.00 min

Lab File: BF084180.D

Acq: 31 Dec 2015 7:28

Tgt Ion:264 Resp: 686632

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.6  | 18.9  | 28.3  |
| 265 | 21.6  | 18.0  | 27.0  |



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

