

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\  
 Data File : BF088113.D  
 Acq On : 18 Jun 2016 1:39  
 Operator : UM/SJ  
 Sample : H3542-15  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-22

Quant Time: Jun 18 02:11:13 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 17 16:09:13 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.70  | 152  | 107566   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 7.98  | 136  | 433844   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10        | 9.74  | 164  | 205488   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.21 | 188  | 369830   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.84 | 240  | 260086   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12            | 15.22 | 264  | 209487   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.28  | 112  | 381803   | 60.68  | ng    | 0.00     |
| 7) Phenol-d6                | 6.34  | 99   | 318402   | 41.75  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.27  | 82   | 594115   | 79.97  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.52 | 330  | 228052   | 105.11 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.06  | 172  | 958678   | 72.47  | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.80 | 244  | 829881   | 72.61  | ng    | 0.00     |

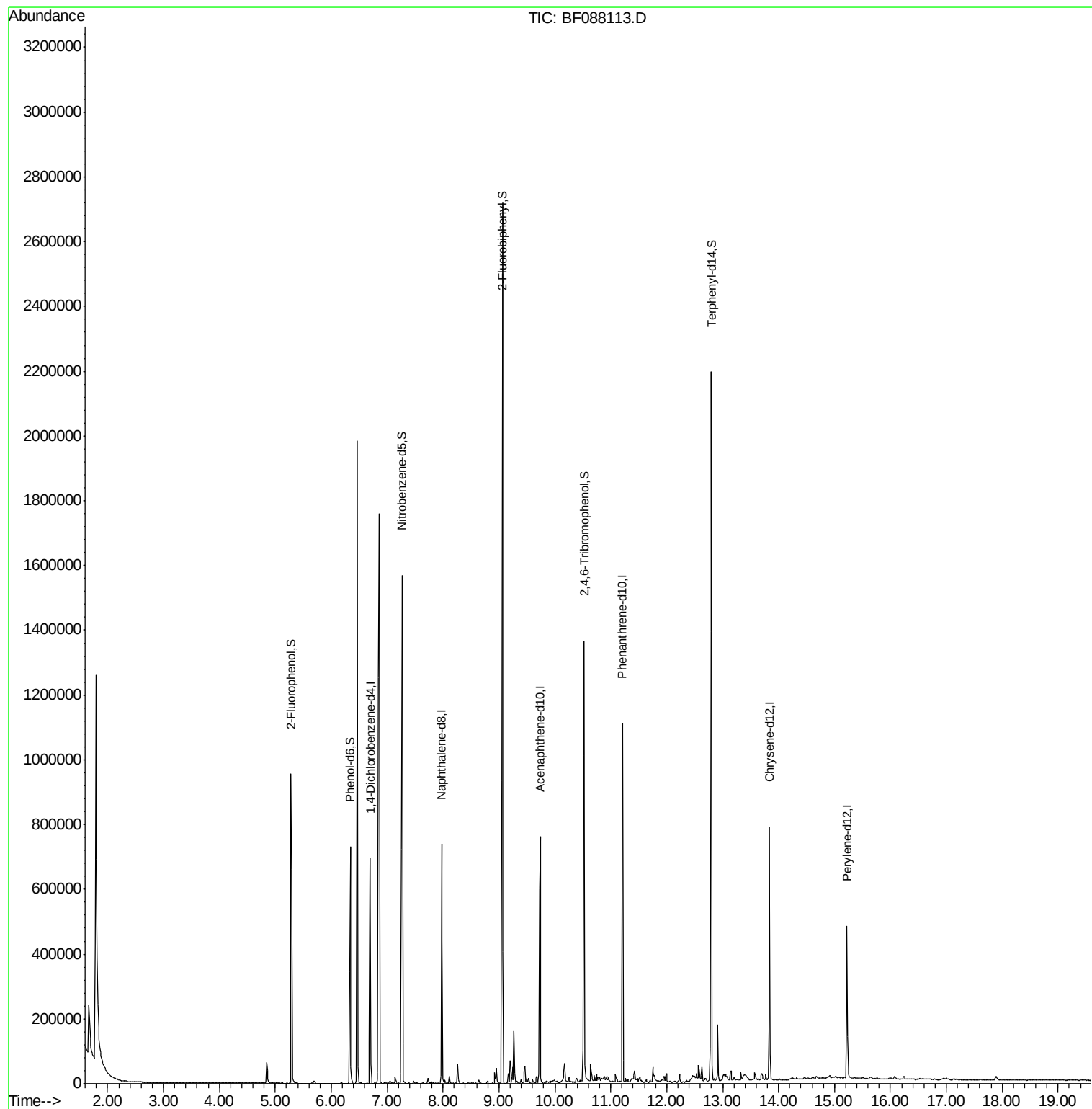
Target Compounds Qvalue

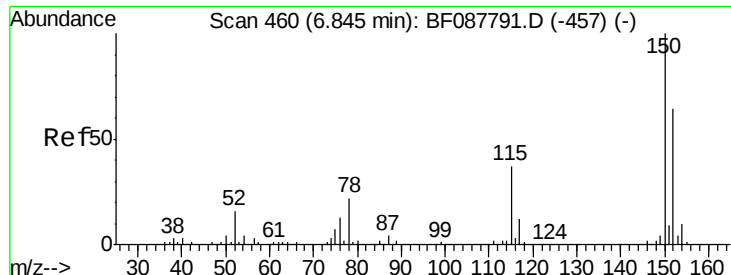
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061716\  
Data File : BF088113.D  
Acq On : 18 Jun 2016 1:39  
Operator : UM/SJ  
Sample : H3542-15  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
MW-22

Quant Time: Jun 18 02:11:13 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 17 16:09:13 2016  
Response via : Initial Calibration

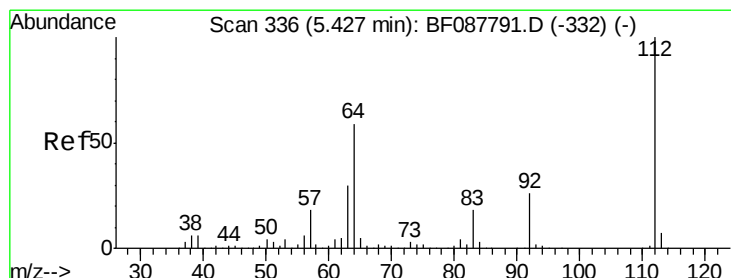
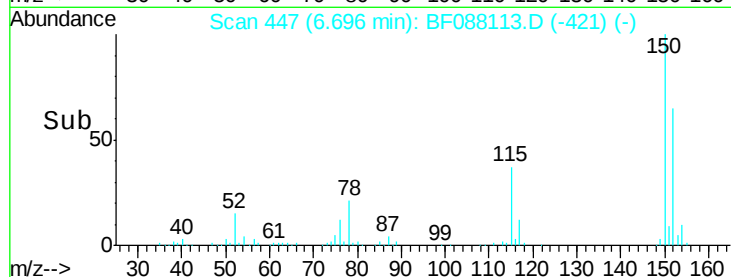
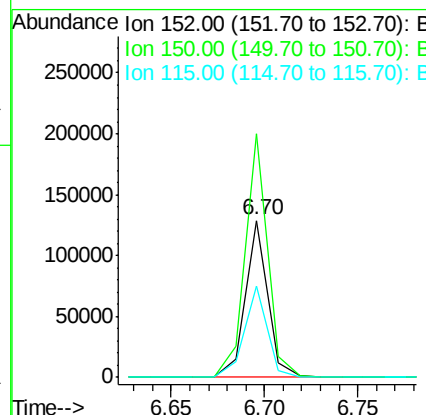
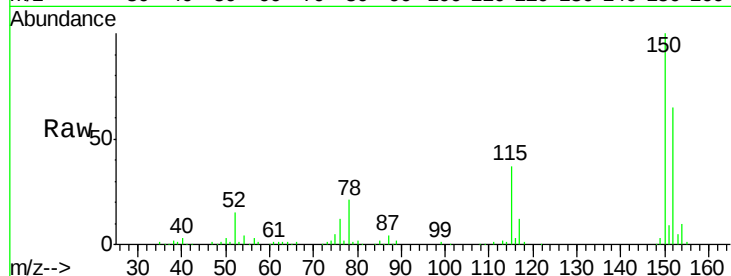




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.70 min Scan# 447  
 Delta R.T. -0.00 min  
 Lab File: BF088113.D  
 Acq: 18 Jun 2016 1:39

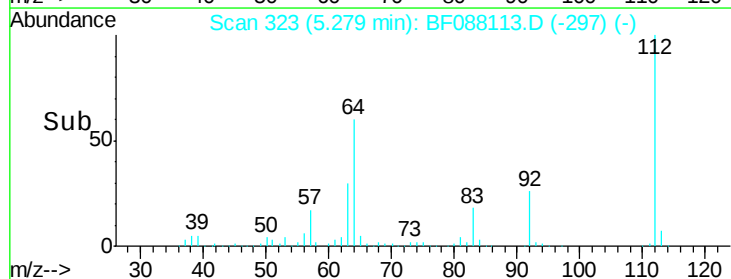
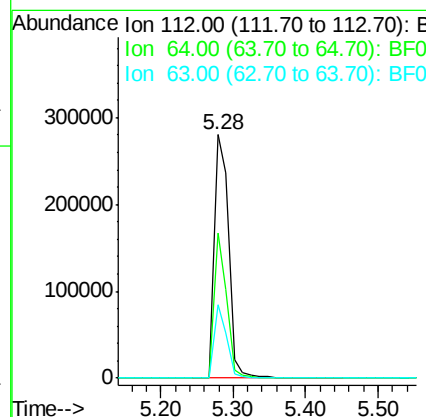
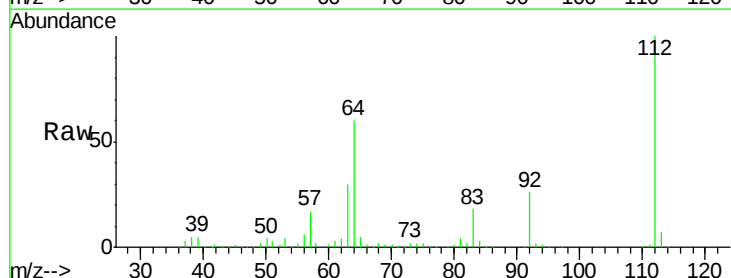
Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-22

Tot Ion:152 Resp: 107566  
 Ion Ratio Lower Upper  
 152 100  
 150 155.0 123.8 185.6  
 115 57.8 39.6 59.4



#5  
 2-Fluorophenol  
 Concen: 60.68 ng  
 RT: 5.28 min Scan# 323  
 Delta R.T. -0.00 min  
 Lab File: BF088113.D  
 Acq: 18 Jun 2016 1:39

Tgt Ion:112 Resp: 381803  
 Ion Ratio Lower Upper  
 112 100  
 64 59.7 42.2 63.2  
 63 30.0 21.8 32.8





#7

Phenol-d6

Concen: 41.75 ng

RT: 6.34 min Scan# 416

Delta R.T. -0.01 min

Lab File: BF088113.D

Acq: 18 Jun 2016 1:39

Instrument :

BNA\_F

ClientSampleId :

MW-22

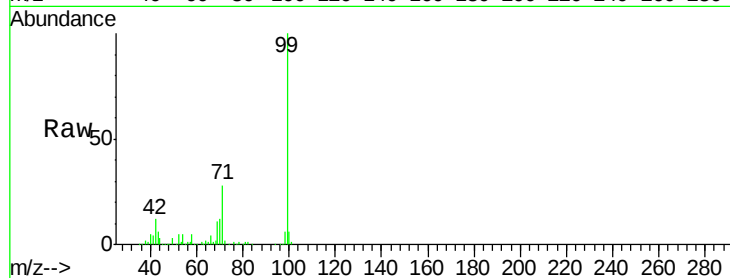
Tot Ion: 99 Resp: 318402

Ion Ratio Lower Upper

99 100

42 12.1 12.2 18.2#

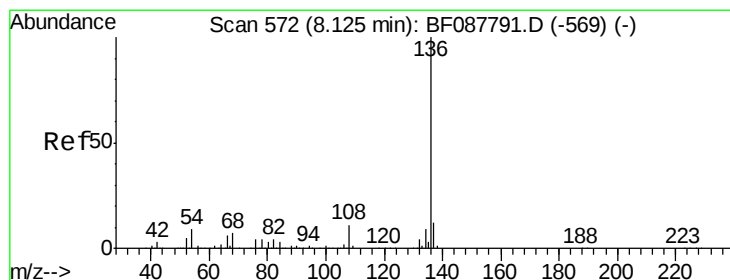
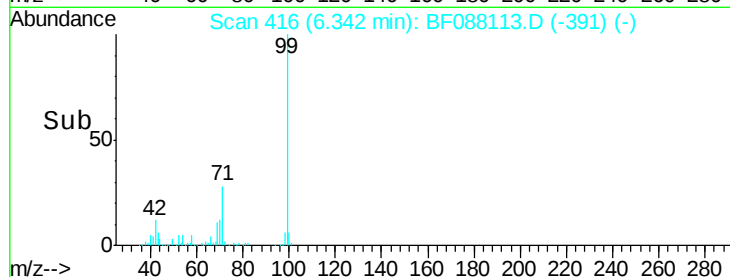
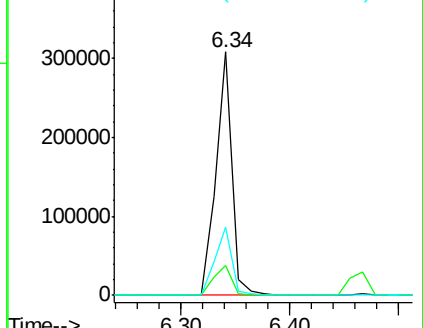
71 28.2 23.4 35.0



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: 7.98 min Scan# 559

Delta R.T. -0.01 min

Lab File: BF088113.D

Acq: 18 Jun 2016 1:39

Tgt Ion: 136 Resp: 433844

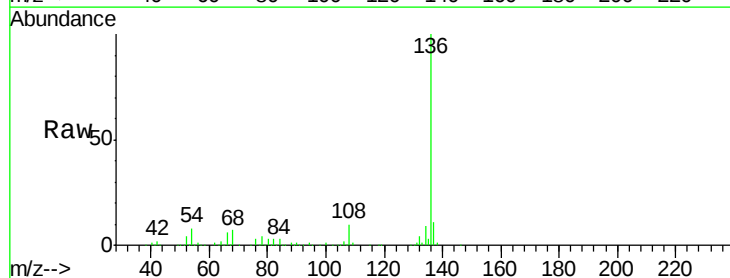
Ion Ratio Lower Upper

136 100

137 11.3 9.1 13.7

54 8.2 6.6 10.0

68 6.8 5.1 7.7

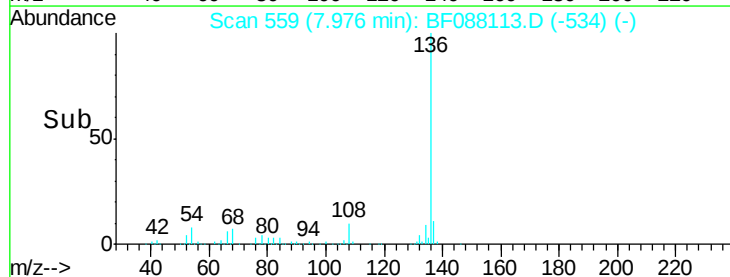
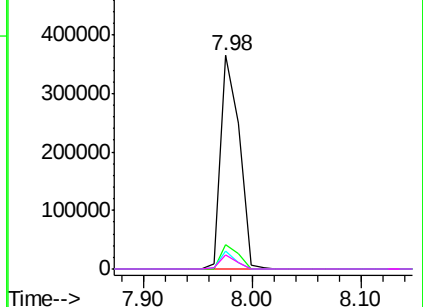


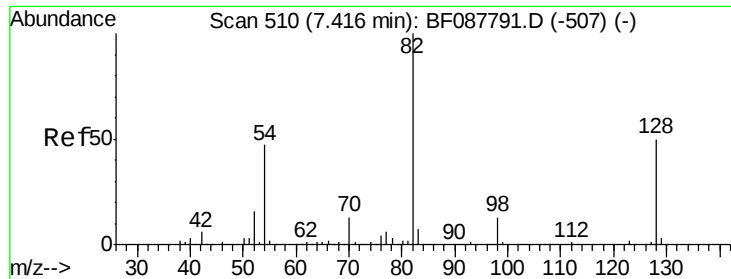
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

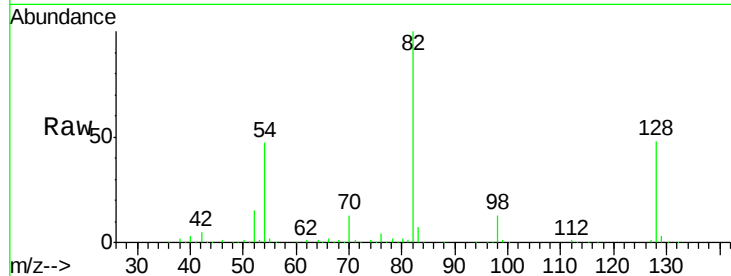




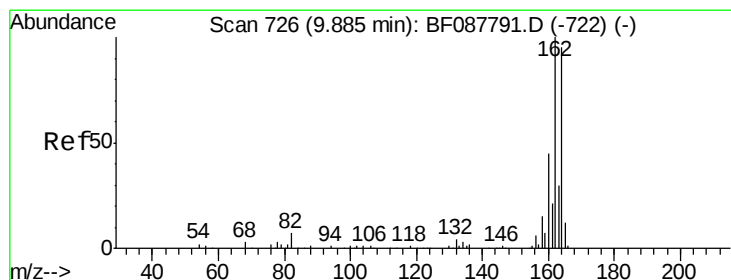
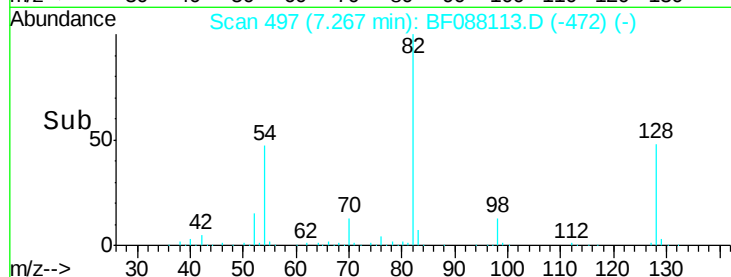
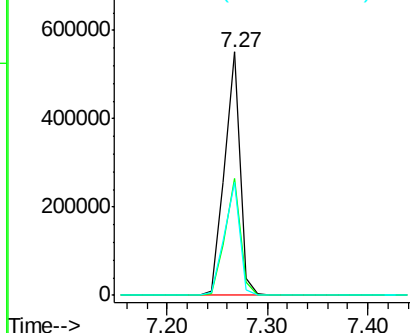
#23  
Nitrobenzene-d5  
Concen: 79.97 ng  
RT: 7.27 min Scan# 497  
Delta R.T. -0.01 min  
Lab File: BF088113.D  
Acq: 18 Jun 2016 1:39

Instrument :  
BNA\_F  
ClientSampleId :  
MW-22

| Tot Ion   | 82    | Resp  | 594115 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 48.0  | 35.9  | 53.9   |
| 54        | 46.5  | 40.9  | 61.3   |

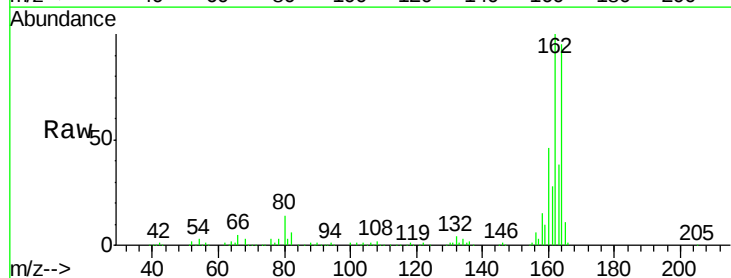


Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): B  
Ion 54.00 (53.70 to 54.70): BF0

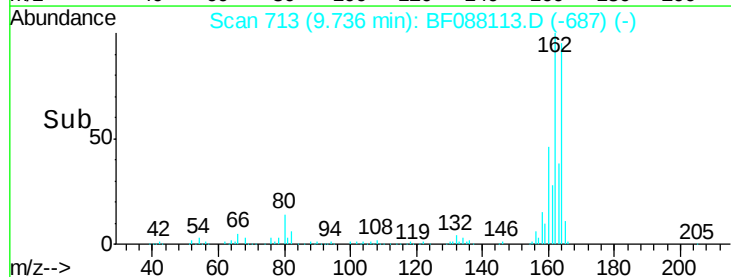
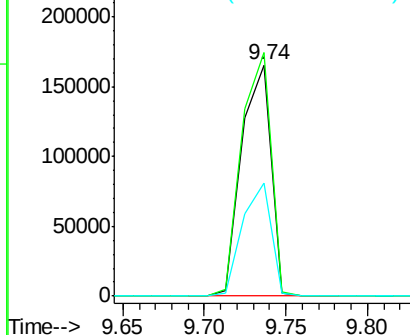


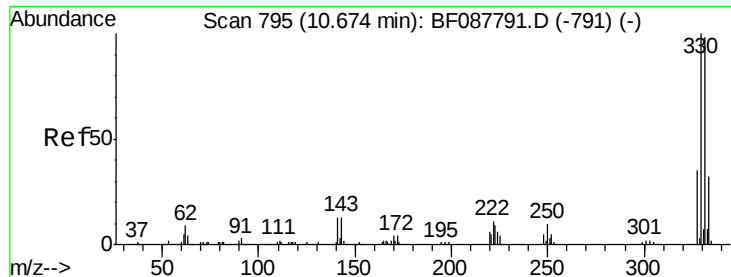
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.74 min Scan# 713  
Delta R.T. -0.00 min  
Lab File: BF088113.D  
Acq: 18 Jun 2016 1:39

| Tgt Ion   | 164   | Resp  | 205488 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 105.5 | 85.4  | 128.2  |
| 160       | 48.8  | 39.5  | 59.3   |



Abundance Ion 164.00 (163.70 to 164.70): B  
Ion 162.00 (161.70 to 162.70): B  
Ion 160.00 (159.70 to 160.70): B





#41

2,4,6-Tribromophenol

Concen: 105.11 ng

RT: 10.52 min Scan# 782

Delta R.T. -0.00 min

Lab File: BF088113.D

Acq: 18 Jun 2016 1:39

Instrument :

BNA\_F

ClientSampleId :

MW-22

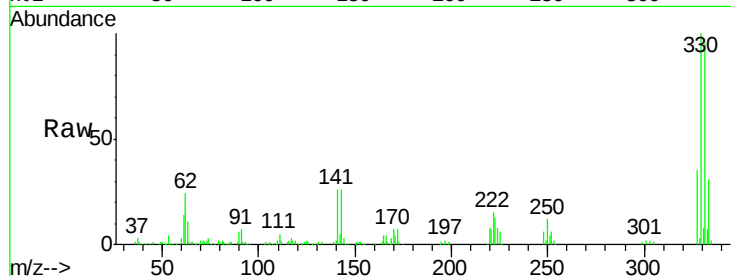
Tot Ion:330 Resp: 228052

Ion Ratio Lower Upper

330 100

332 95.6 0.0 0.0#

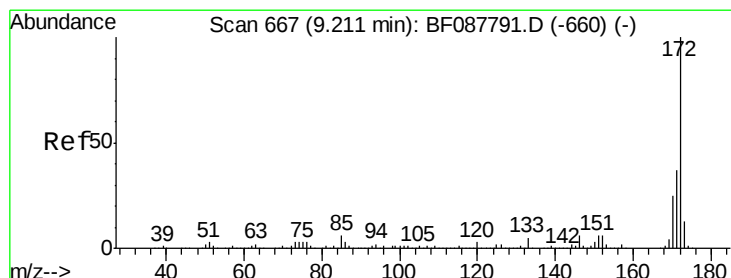
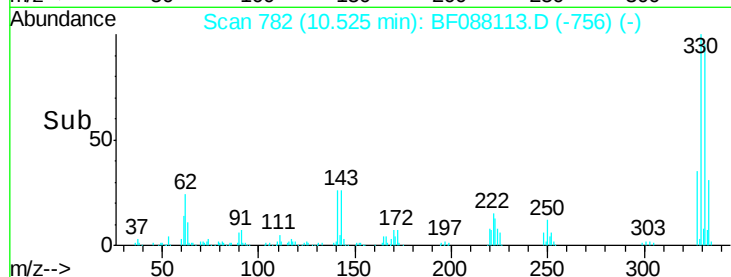
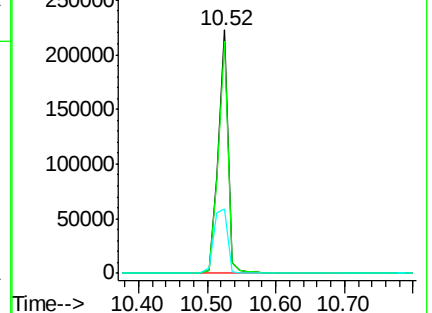
141 37.3 0.0 0.0#



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: 72.47 ng

RT: 9.06 min Scan# 654

Delta R.T. -0.01 min

Lab File: BF088113.D

Acq: 18 Jun 2016 1:39

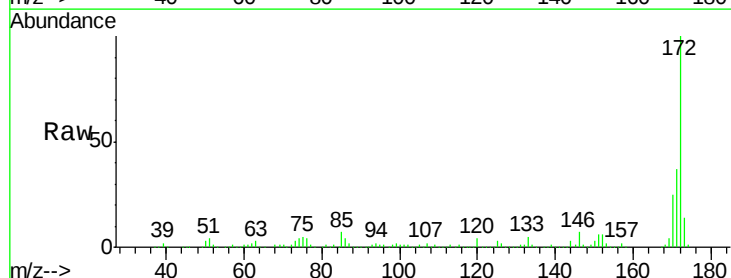
Tgt Ion:172 Resp: 958678

Ion Ratio Lower Upper

172 100

171 36.7 28.6 43.0

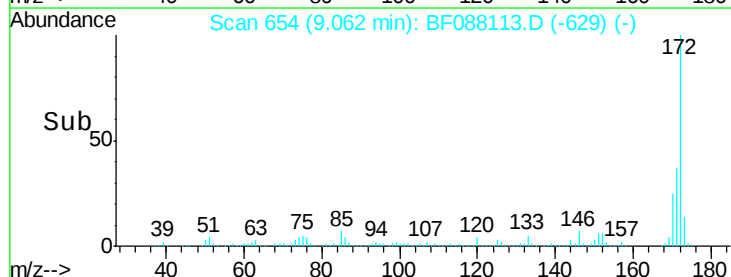
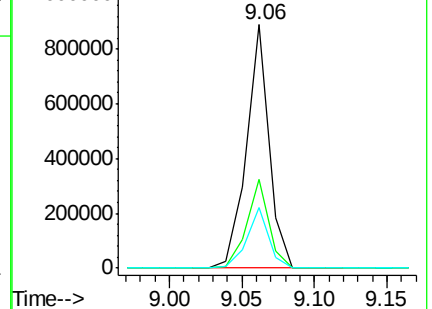
170 24.7 19.2 28.8

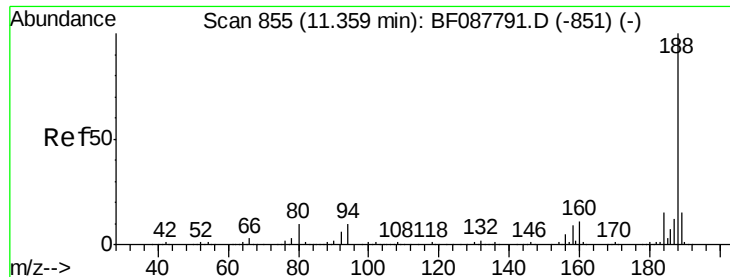


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

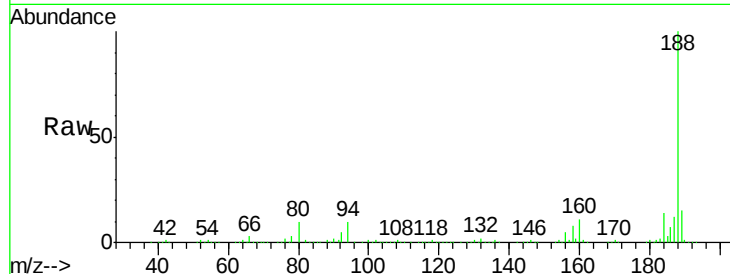




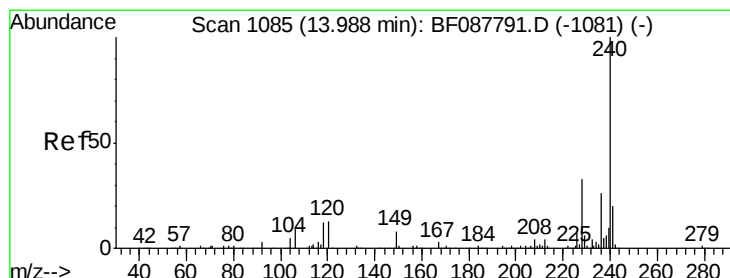
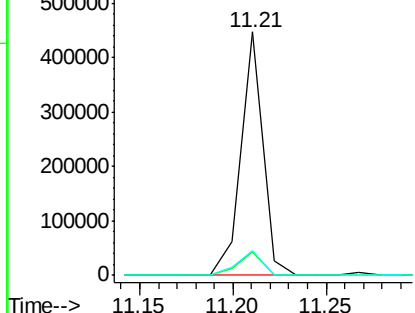
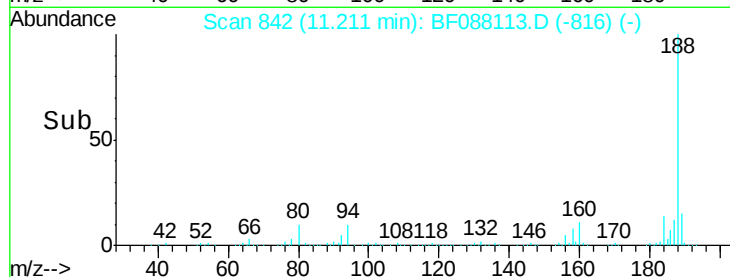
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.21 min Scan# 842  
Delta R.T. -0.00 min  
Lab File: BF088113.D  
Acq: 18 Jun 2016 1:39

Instrument :  
BNA\_F  
ClientSampleId :  
MW-22

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.9   | 9.0   | 13.6  |
| 80      | 10.4  | 10.0  | 15.0  |

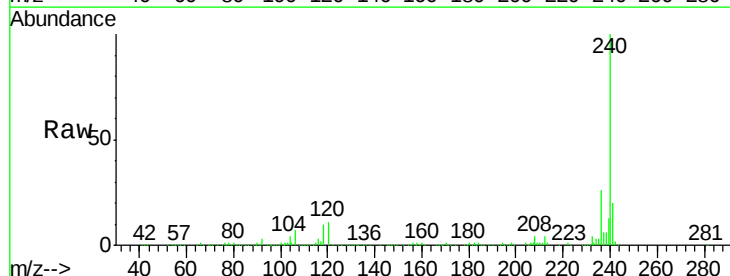


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

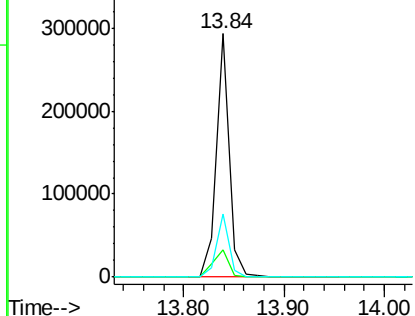
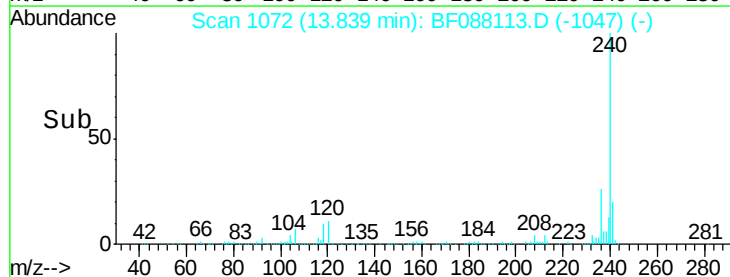


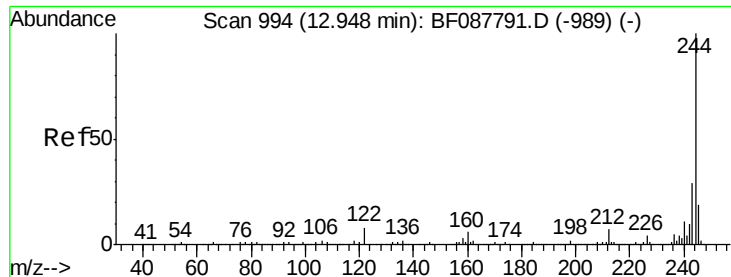
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.84 min Scan# 1072  
Delta R.T. -0.01 min  
Lab File: BF088113.D  
Acq: 18 Jun 2016 1:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.2  | 6.8   | 10.2# |
| 236     | 25.9  | 20.2  | 30.2  |



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

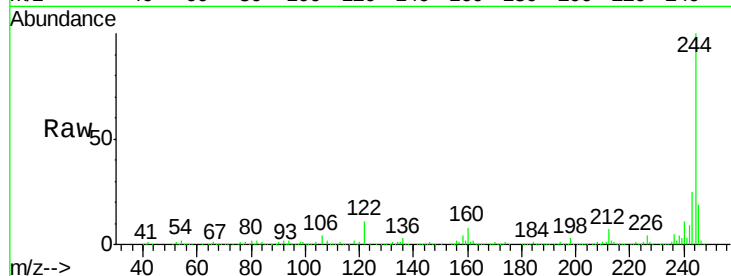




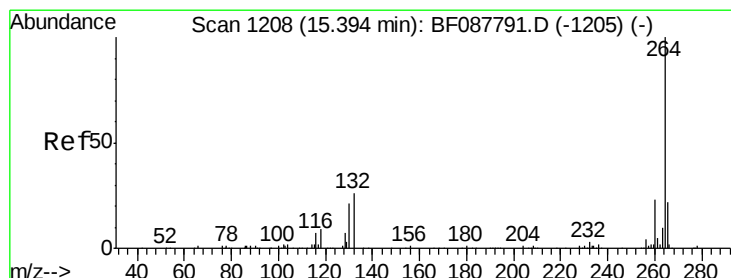
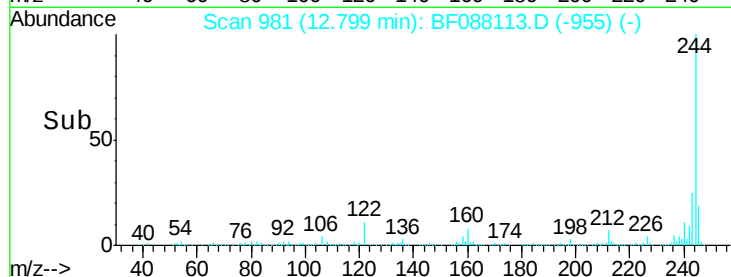
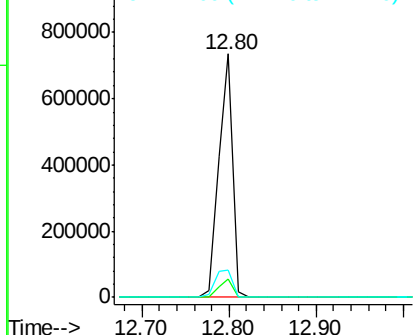
#78  
 Terphenyl-d14  
 Concen: 72.61 ng  
 RT: 12.80 min Scan# 981  
 Delta R.T. -0.00 min  
 Lab File: BF088113.D  
 Acq: 18 Jun 2016 1:39

Instrument :  
 BNA\_F  
 ClientSampled :  
 MW-22

Tot Ion:244 Resp: 829881  
 Ion Ratio Lower Upper  
 244 100  
 212 7.4 6.0 9.0  
 122 11.4 11.2 16.8

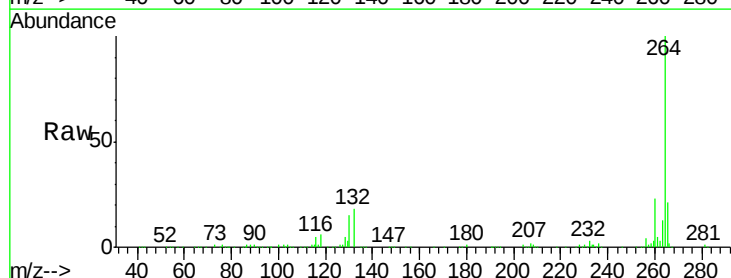


Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.22 min Scan# 1193  
 Delta R.T. -0.00 min  
 Lab File: BF088113.D  
 Acq: 18 Jun 2016 1:39

Tgt Ion:264 Resp: 209487  
 Ion Ratio Lower Upper  
 264 100  
 260 23.2 19.2 28.8  
 265 21.4 16.9 25.3



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

