

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF073015\  
 Data File : BF080715.D  
 Acq On : 31 Jul 2015 2:59  
 Operator : TP/UM  
 Sample : G2973-17RE  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FBRE

Quant Time: Jul 31 03:36:33 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF073015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 31 01:45:22 2015  
 Response via : Initial Calibration

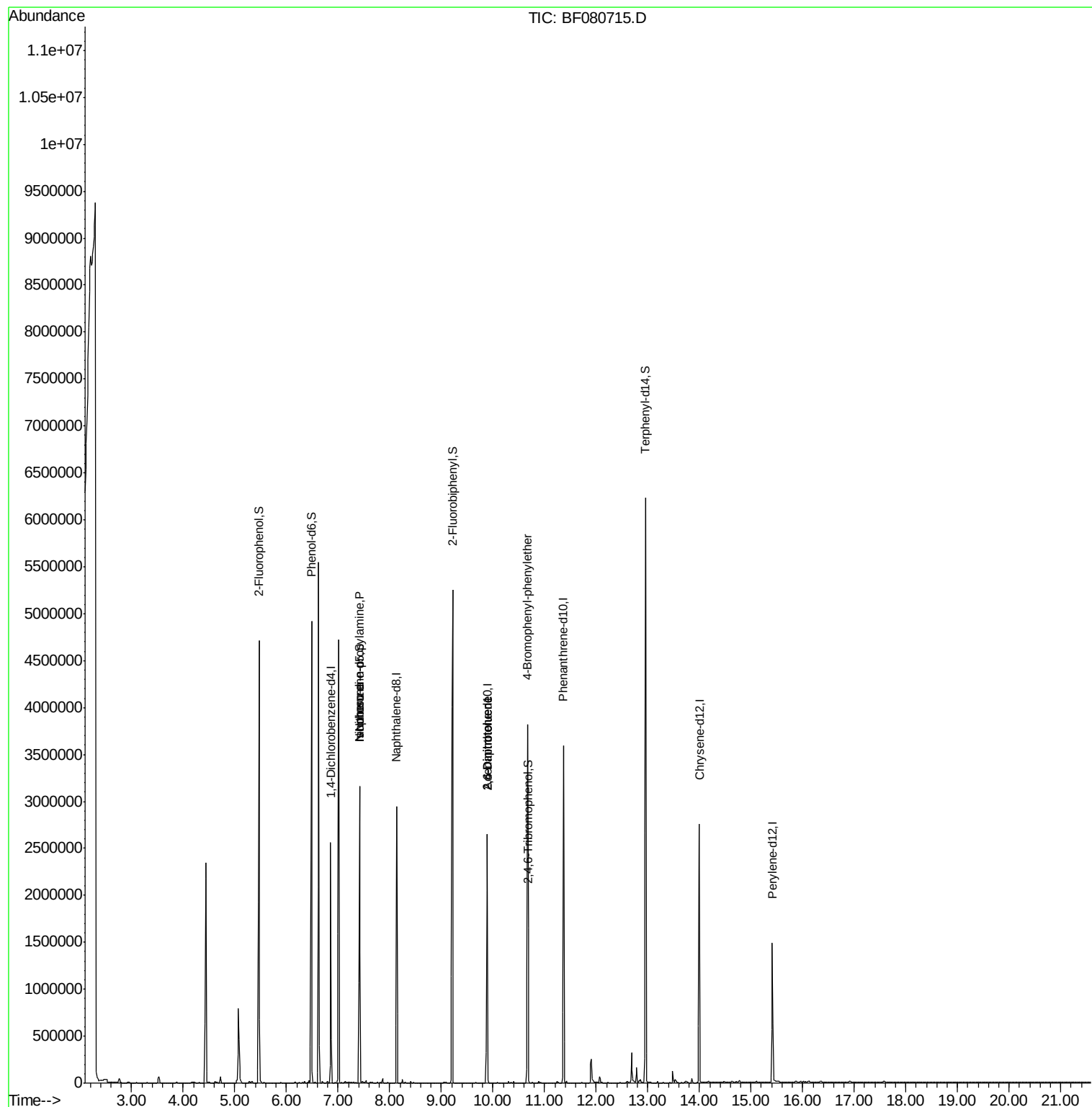
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.85  | 152  | 323890   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.13  | 136  | 1306087  | 20.00     | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.89  | 164  | 711186   | 20.00     | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.37 | 188  | 1254528  | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12               | 14.00 | 240  | 918852   | 20.00     | ng    | 0.00     |
| 86) Perylene-d12               | 15.41 | 264  | 684673   | 20.00     | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.47  | 112  | 1219113  | 64.57     | ng    | 0.02     |
| 7) Phenol-d6                   | 6.49  | 99   | 1635380  | 63.62     | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.41  | 82   | 1246481  | 46.22     | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.68 | 330  | 594215   | 80.52     | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.22  | 172  | 2316141  | 48.59     | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.96 | 244  | 2112433  | 43.48     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.41  | 77   | 1893     | Below Cal | #     | 66       |
| 19) n-Nitroso-di-n-propylamine | 7.41  | 70   | 172911   | 9.99 ng   | #     | 76       |
| 25) Isophorone                 | 7.41  | 82   | 1239762  | 25.85 ng  | #     | 71       |
| 50) 2,6-Dinitrotoluene         | 9.89  | 165  | 90630    | 8.52 ng   | #     | 15       |
| 56) 2,4-Dinitrotoluene         | 9.89  | 165  | 90630    | 6.50 ng   | #     | 17       |
| 66) 4-Bromophenyl-phenylether  | 10.67 | 248  | 33337    | 2.57 ng   | #     | 1        |

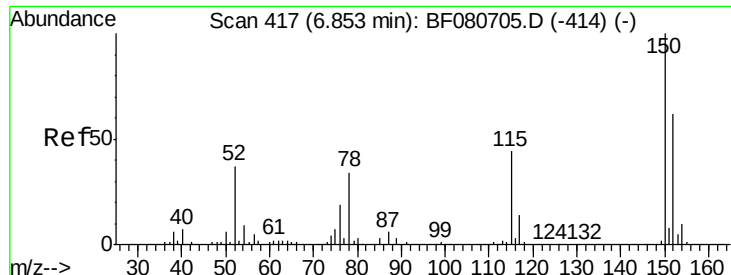
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF073015\  
Data File : BF080715.D  
Acq On : 31 Jul 2015 2:59  
Operator : TP/UM  
Sample : G2973-17RE  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
FBRE

Quant Time: Jul 31 03:36:33 2015  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF073015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jul 31 01:45:22 2015  
Response via : Initial Calibration

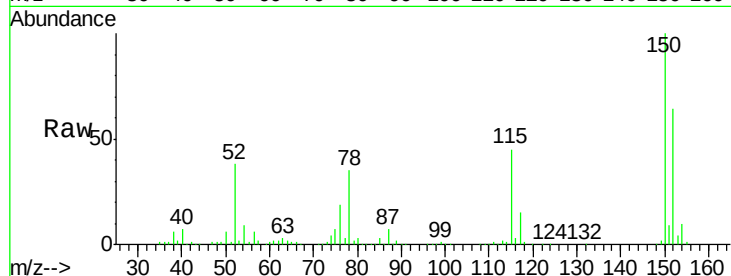




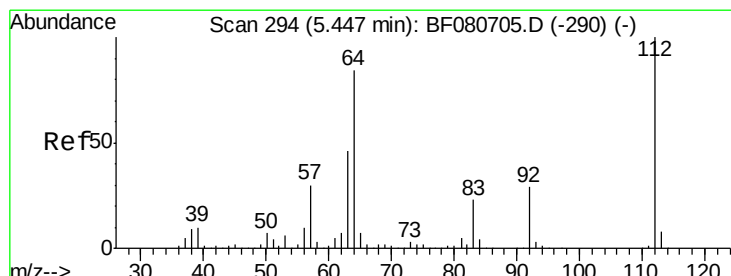
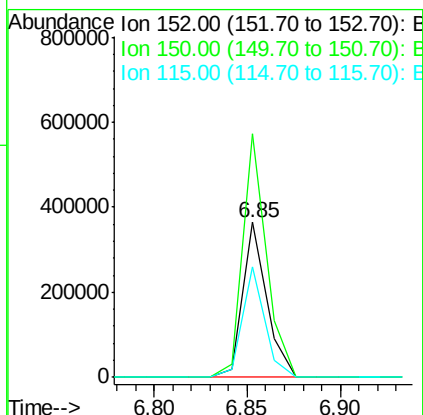
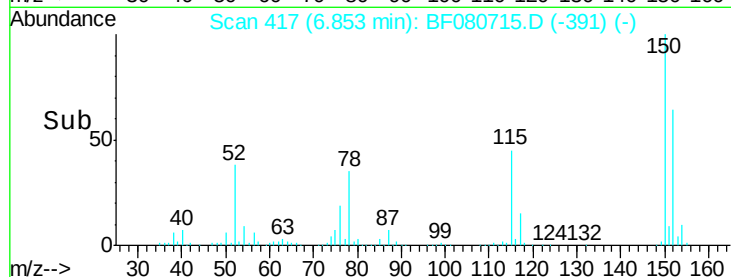
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.85 min Scan# 417  
 Delta R.T. -0.00 min  
 Lab File: BF080715.D  
 Acq: 31 Jul 2015 2:59

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FBRE

Tgt Ion:152 Resp: 323890  
 Ion Ratio Lower Upper  
 152 100  
 150 157.4 129.6 194.4  
 115 71.3 56.6 85.0

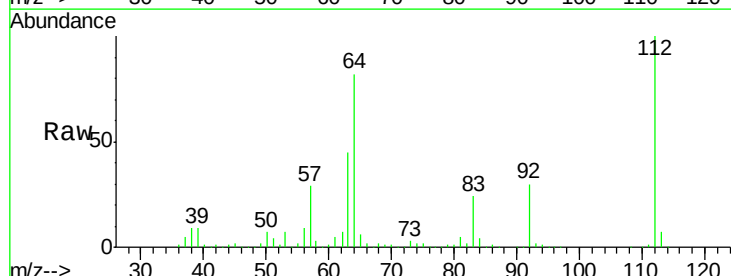


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

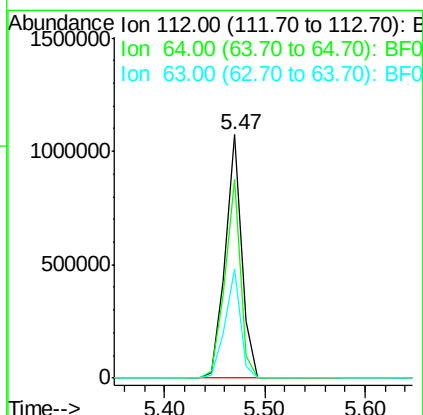
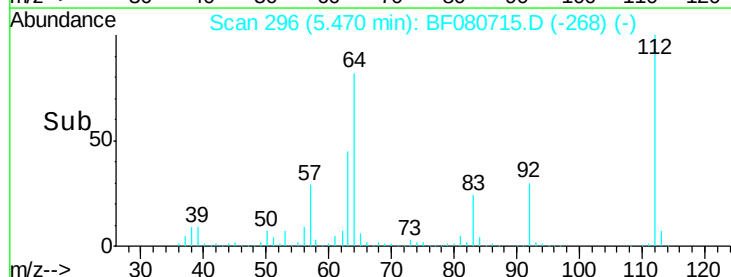


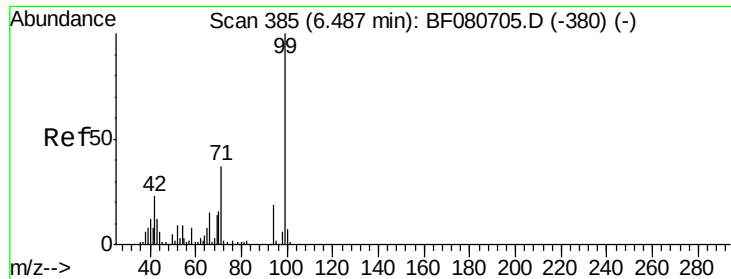
#5  
 2-Fluorophenol  
 Concen: 64.57 ng  
 RT: 5.47 min Scan# 296  
 Delta R.T. 0.02 min  
 Lab File: BF080715.D  
 Acq: 31 Jul 2015 2:59

Tgt Ion:112 Resp: 1219113  
 Ion Ratio Lower Upper  
 112 100  
 64 81.5 66.8 100.2  
 63 45.0 36.7 55.1



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: 63.62 ng

RT: 6.49 min Scan# 385

Delta R.T. -0.00 min

Lab File: BF080715.D

Acq: 31 Jul 2015 2:59

Instrument :

BNA\_F

ClientSampleId :

FBRE

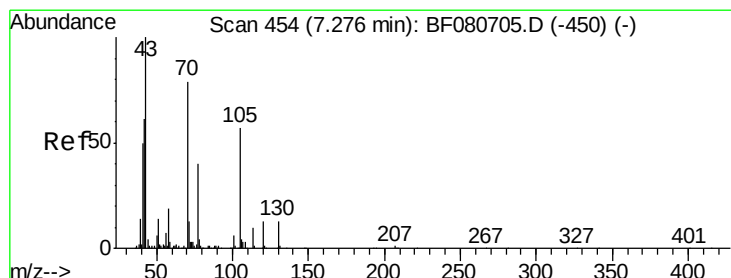
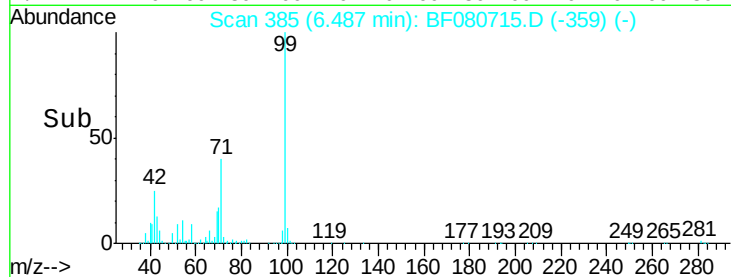
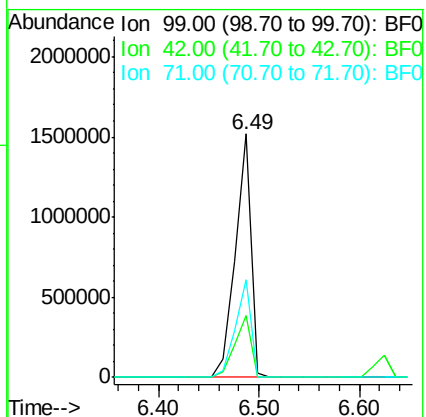
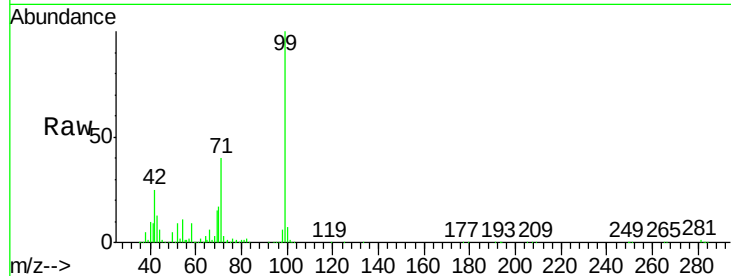
Tgt Ion: 99 Resp: 1635380

Ion Ratio Lower Upper

99 100

42 25.2 18.2 27.2

71 39.9 29.5 44.3



#19

n-Nitroso-di-n-propylamine

Concen: 9.99 ng

RT: 7.41 min Scan# 466

Delta R.T. 0.14 min

Lab File: BF080715.D

Acq: 31 Jul 2015 2:59

Tgt Ion: 70 Resp: 172911

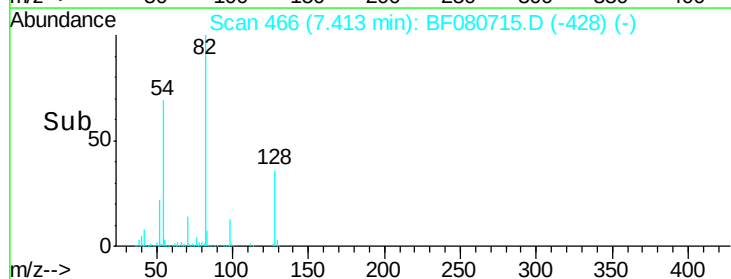
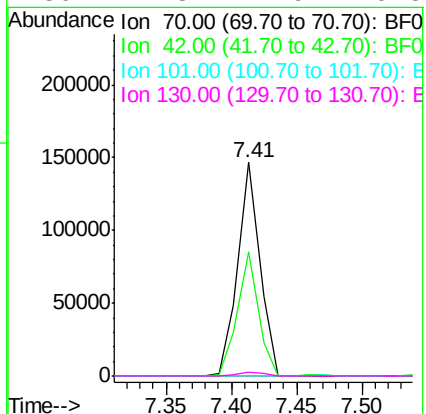
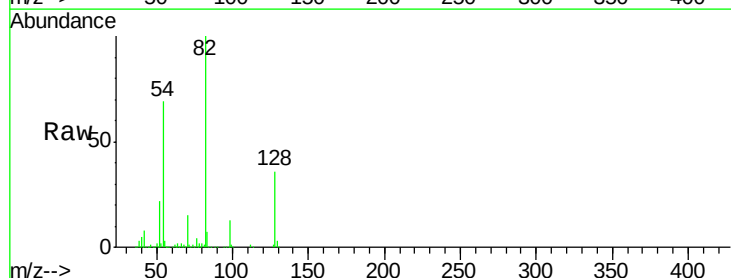
Ion Ratio Lower Upper

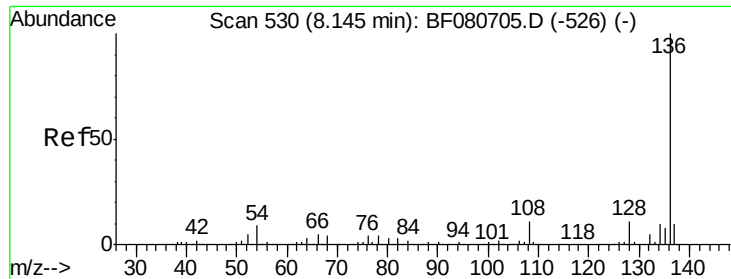
70 100

42 58.1 61.8 92.6#

101 0.0 6.1 9.1#

130 1.8 12.9 19.3#

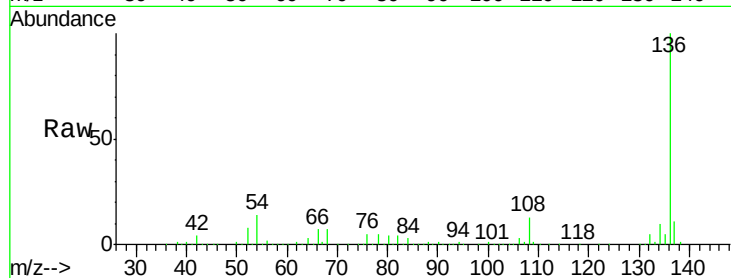




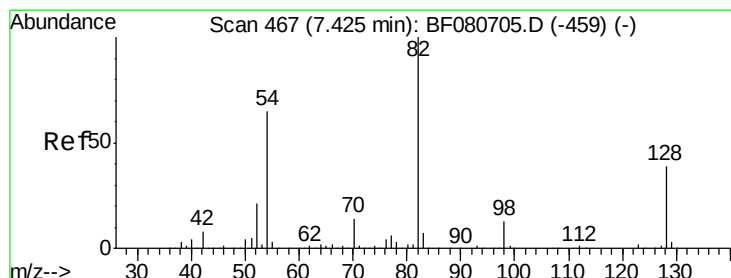
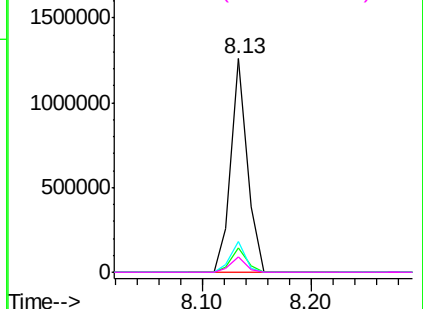
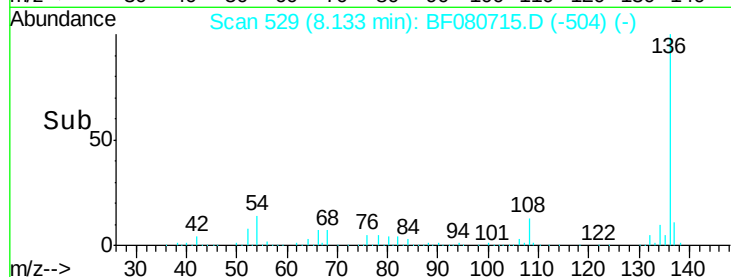
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.13 min Scan# 529  
Delta R.T. -0.01 min  
Lab File: BF080715.D  
Acq: 31 Jul 2015 2:59

Instrument :  
BNA\_F  
ClientSampleId :  
FBRE

Tgt Ion: 136 Resp: 1306087  
Ion Ratio Lower Upper  
136 100  
137 11.4 8.4 12.6  
54 14.1 6.9 10.3#  
68 7.0 3.5 5.3#

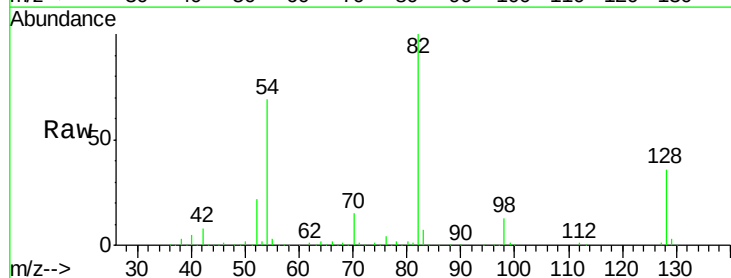


Abundance Ion 136.00 (135.70 to 136.70): E  
2000000  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

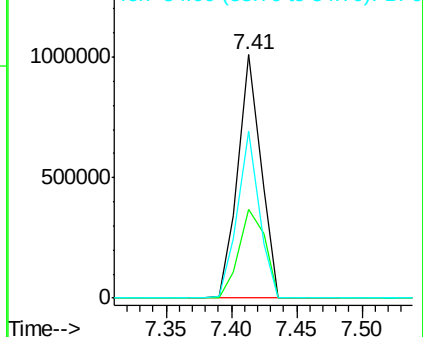
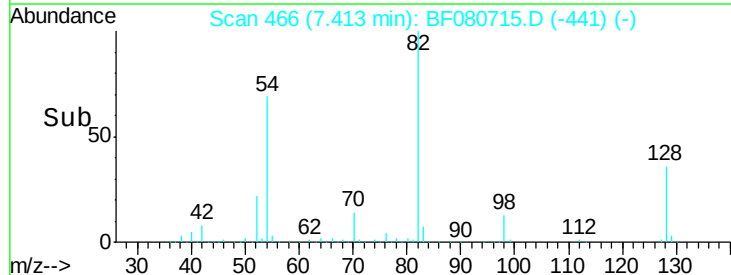


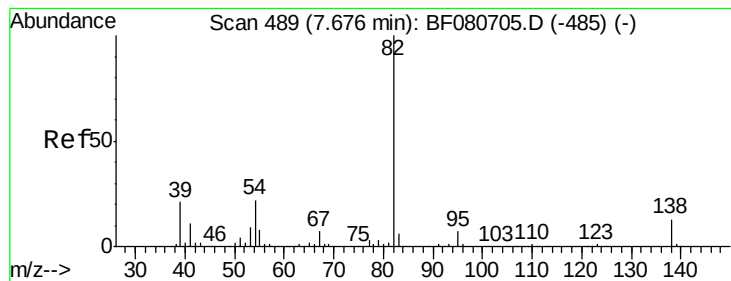
#23  
Nitrobenzene-d5  
Concen: 46.22 ng  
RT: 7.41 min Scan# 466  
Delta R.T. -0.01 min  
Lab File: BF080715.D  
Acq: 31 Jul 2015 2:59

Tgt Ion: 82 Resp: 1246481  
Ion Ratio Lower Upper  
82 100  
128 36.5 31.5 47.3  
54 68.6 51.8 77.8



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





#25

Isophorone

Concen: 25.85 ng

RT: 7.41 min Scan# 466

Delta R.T. -0.26 min

Lab File: BF080715.D

Acq: 31 Jul 2015 2:59

Instrument :

BNA\_F

ClientSampleId :

FBRE

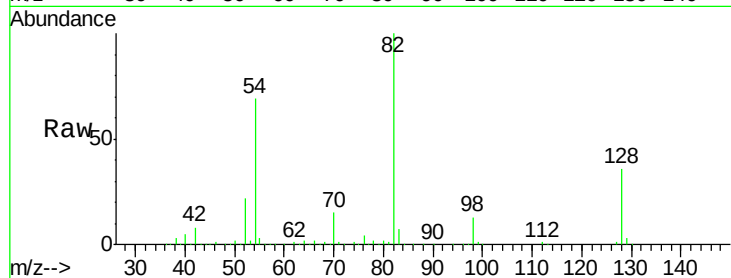
Tgt Ion: 82 Resp: 1239762

Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.6#

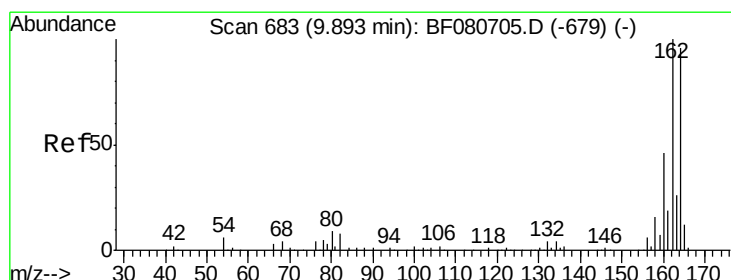
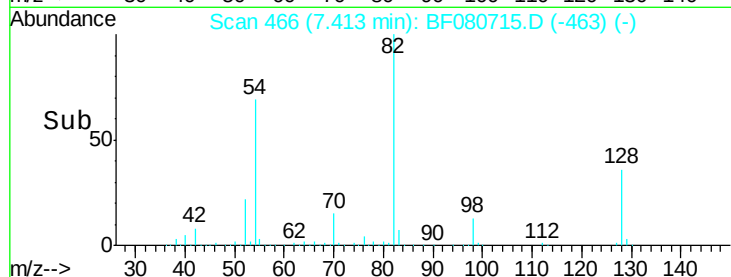
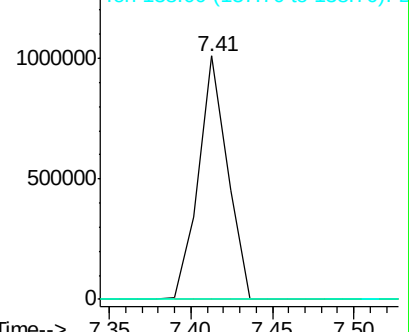
138 0.0 10.7 16.1#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.89 min Scan# 683

Delta R.T. -0.00 min

Lab File: BF080715.D

Acq: 31 Jul 2015 2:59

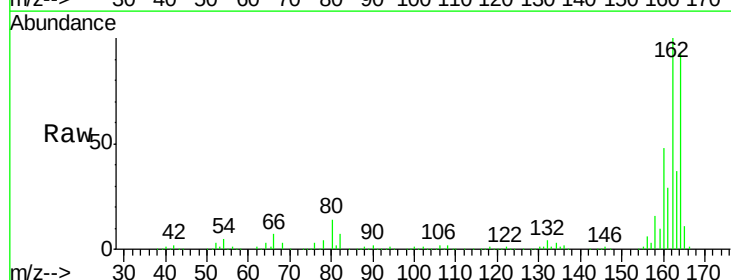
Tgt Ion: 164 Resp: 711186

Ion Ratio Lower Upper

164 100

162 107.0 83.4 125.0

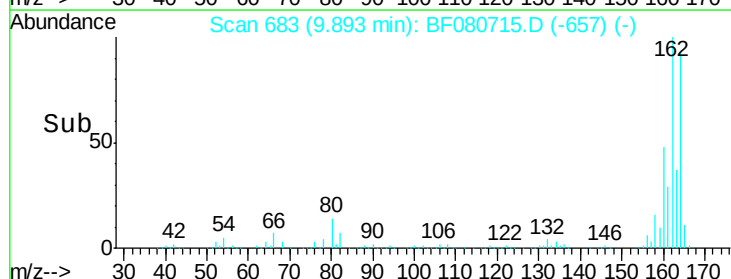
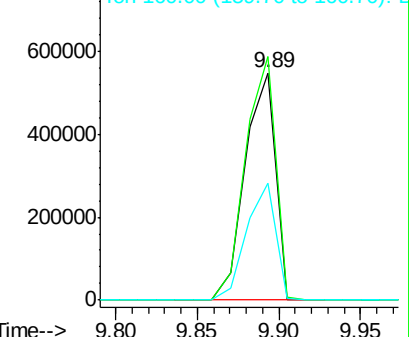
160 51.6 38.0 57.0

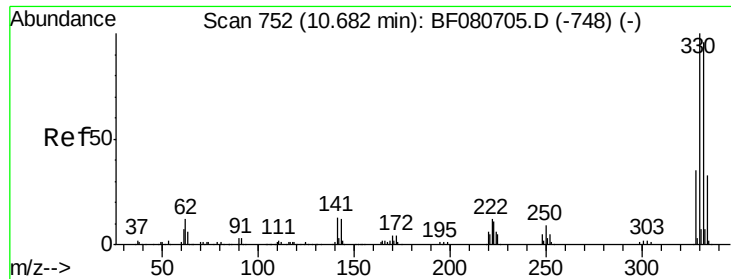


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

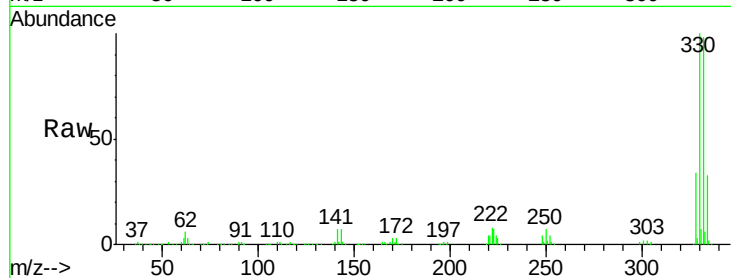




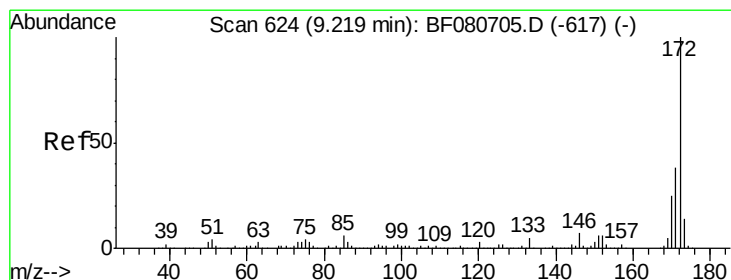
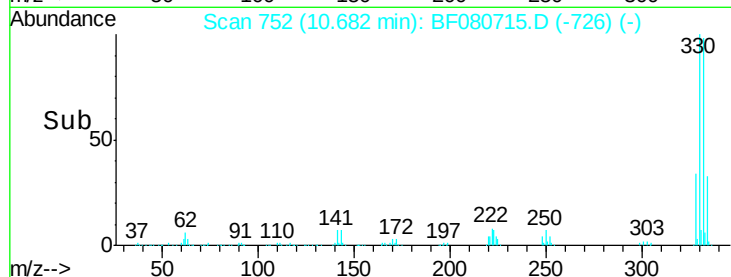
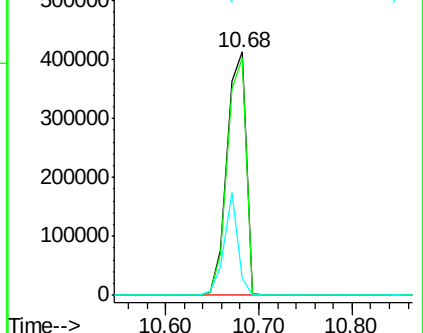
#41  
 2,4,6-Tribromophenol  
 Concen: 80.52 ng  
 RT: 10.68 min Scan# 752  
 Delta R.T. -0.00 min  
 Lab File: BF080715.D  
 Acq: 31 Jul 2015 2:59

Instrument :  
 BNA\_F  
 ClientSampled :  
 FBRE

Tgt Ion:330 Resp: 594215  
 Ion Ratio Lower Upper  
 330 100  
 332 96.5 76.6 114.8  
 141 30.0 26.0 39.0

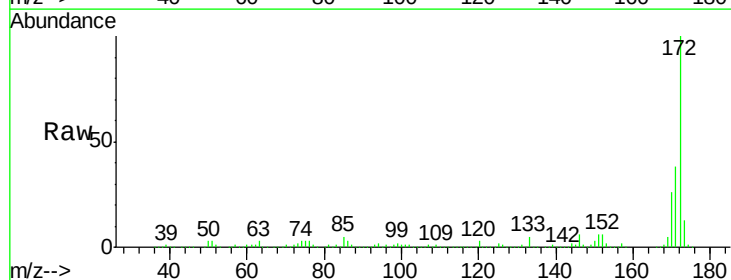


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

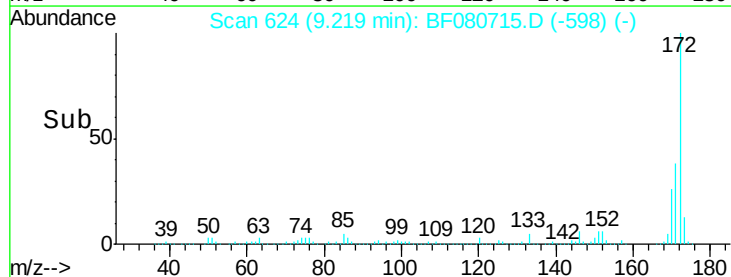
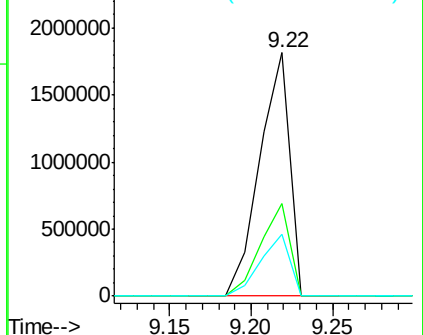


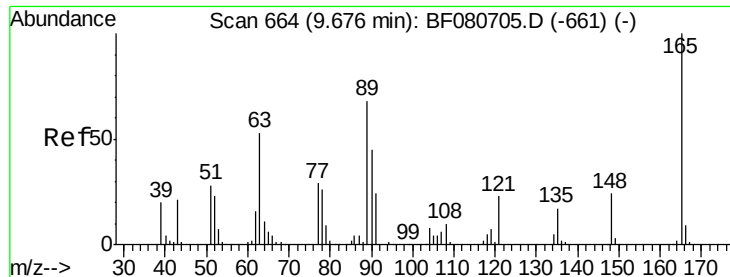
#44  
 2-Fluorobiphenyl  
 Concen: 48.59 ng  
 RT: 9.22 min Scan# 624  
 Delta R.T. -0.00 min  
 Lab File: BF080715.D  
 Acq: 31 Jul 2015 2:59

Tgt Ion:172 Resp: 2316141  
 Ion Ratio Lower Upper  
 172 100  
 171 37.9 30.2 45.4  
 170 25.5 20.2 30.2



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

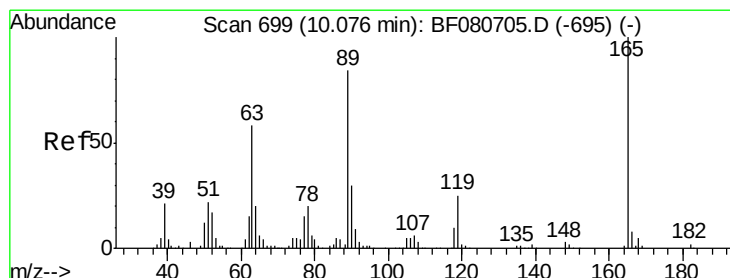
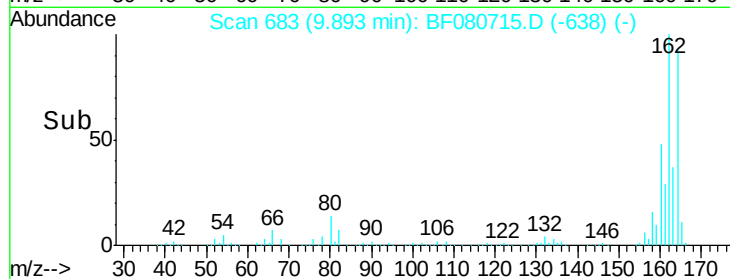
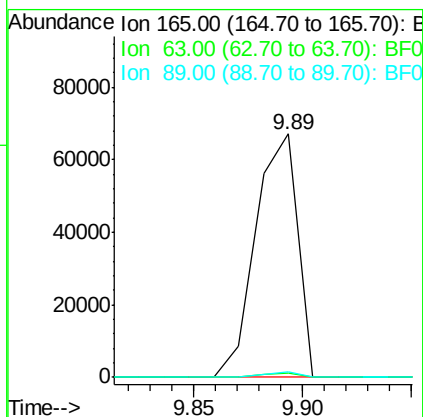
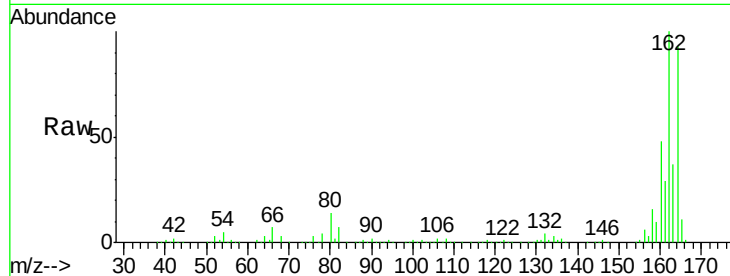




#50  
 2,6-Dinitrotoluene  
 Concen: 8.52 ng  
 RT: 9.89 min Scan# 683  
 Delta R.T. 0.22 min  
 Lab File: BF080715.D  
 Acq: 31 Jul 2015 2:59

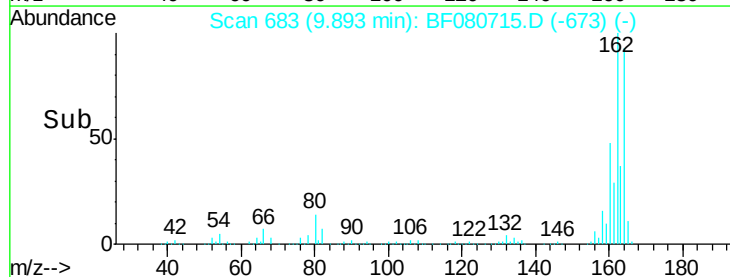
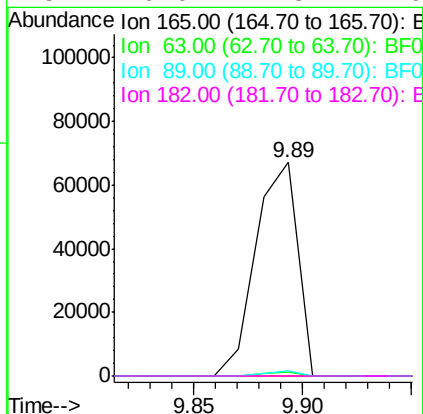
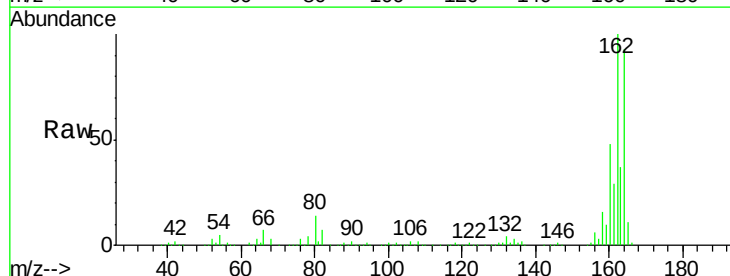
Instrument :  
 BNA\_F  
 ClientSampleId :  
 FBRE

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.7   | 62.3  | 93.5# |
| 89      | 2.4   | 54.8  | 82.2# |

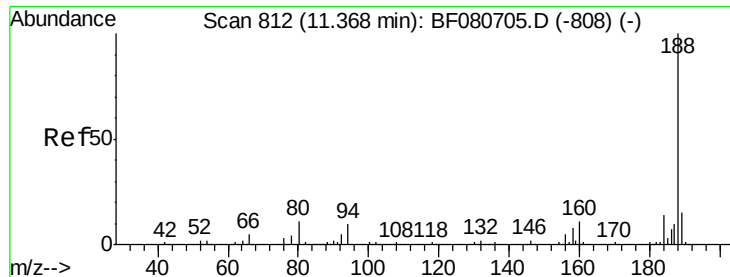


#56  
 2,4-Dinitrotoluene  
 Concen: 6.50 ng  
 RT: 9.89 min Scan# 683  
 Delta R.T. -0.18 min  
 Lab File: BF080715.D  
 Acq: 31 Jul 2015 2:59

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 165     | 100   |       |        |
| 63      | 1.7   | 46.7  | 70.1#  |
| 89      | 2.4   | 67.4  | 101.2# |
| 182     | 0.0   | 1.8   | 2.6#   |



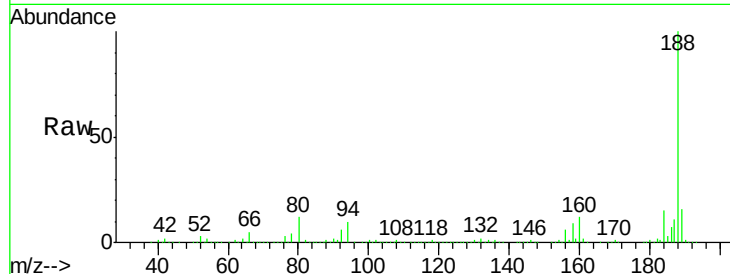




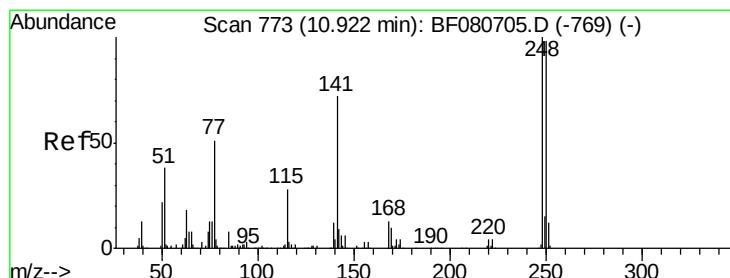
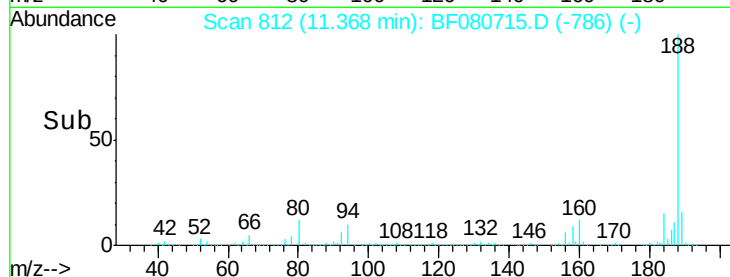
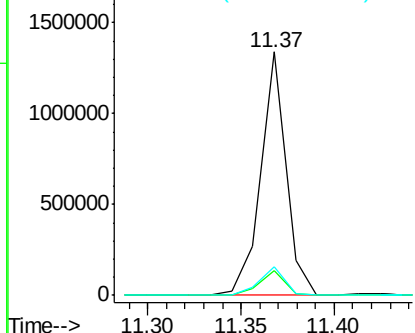
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.37 min Scan# 812  
 Delta R.T. -0.00 min  
 Lab File: BF080715.D  
 Acq: 31 Jul 2015 2:59

Instrument :  
 BNA\_F  
 ClientSampleId :  
 FBRE

Tgt Ion:188 Resp: 1254528  
 Ion Ratio Lower Upper  
 188 100  
 94 10.4 8.1 12.1  
 80 11.9 9.1 13.7

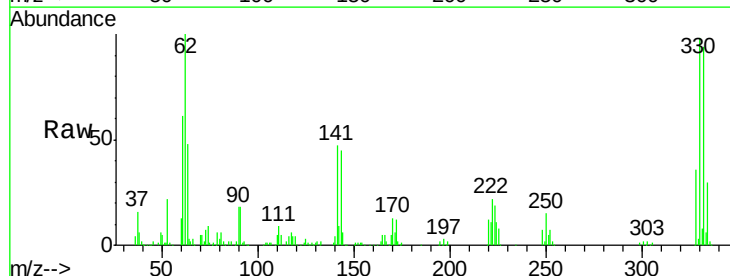


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

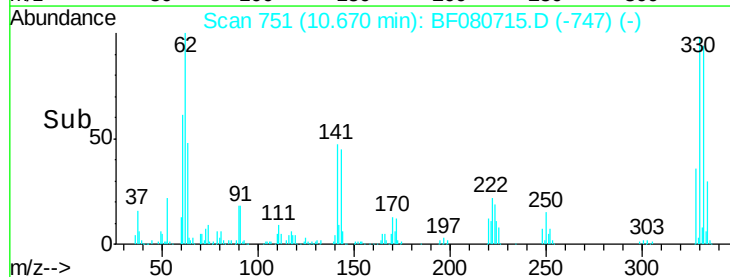
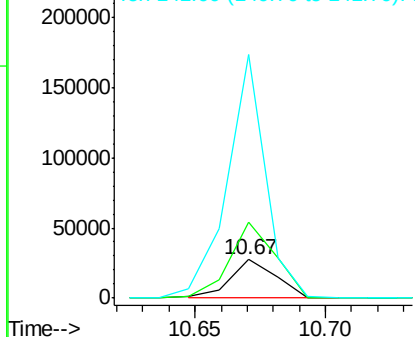


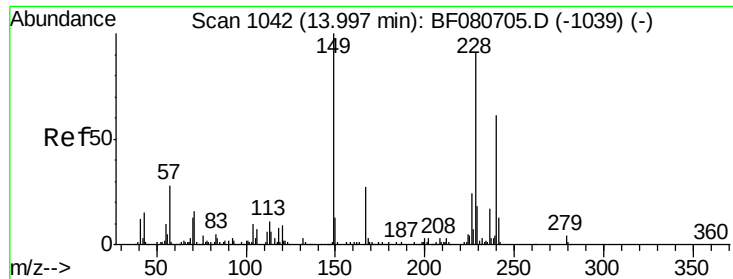
#66  
 4-Bromophenyl-phenylether  
 Concen: 2.57 ng  
 RT: 10.67 min Scan# 751  
 Delta R.T. -0.25 min  
 Lab File: BF080715.D  
 Acq: 31 Jul 2015 2:59

Tgt Ion:248 Resp: 33337  
 Ion Ratio Lower Upper  
 248 100  
 250 196.6 78.4 117.6#  
 141 630.9 57.5 86.3#



Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.00 min Scan# 1042

Delta R.T. -0.00 min

Lab File: BF080715.D

Acq: 31 Jul 2015 2:59

Instrument :

BNA\_F

ClientSampled :

FBRE

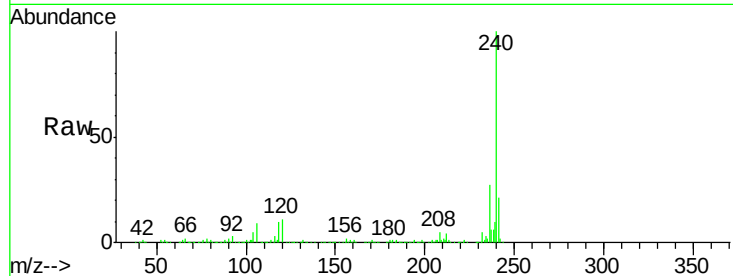
Tgt Ion:240 Resp: 918852

Ion Ratio Lower Upper

240 100

120 11.0 11.8 17.8#

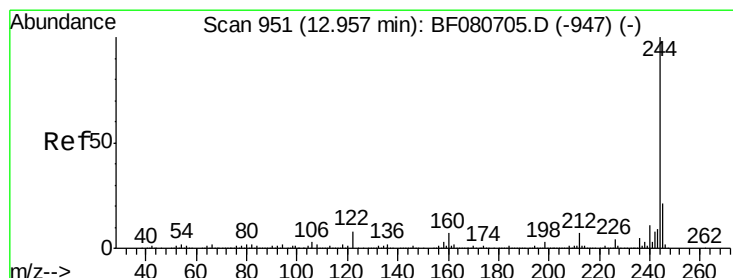
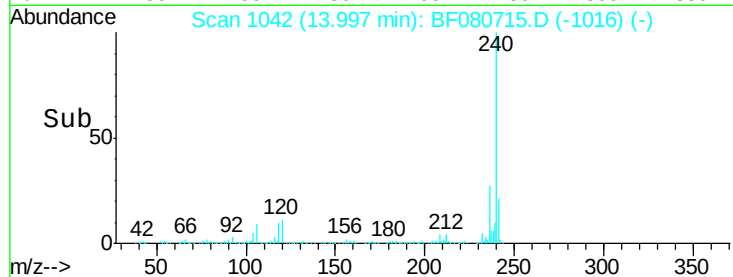
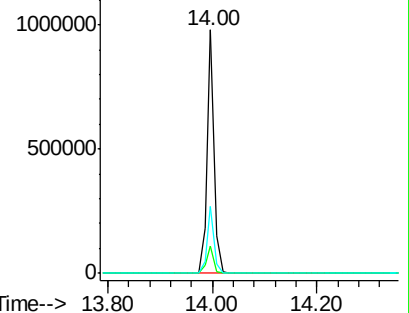
236 27.3 21.8 32.8



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: 43.48 ng

RT: 12.96 min Scan# 951

Delta R.T. -0.00 min

Lab File: BF080715.D

Acq: 31 Jul 2015 2:59

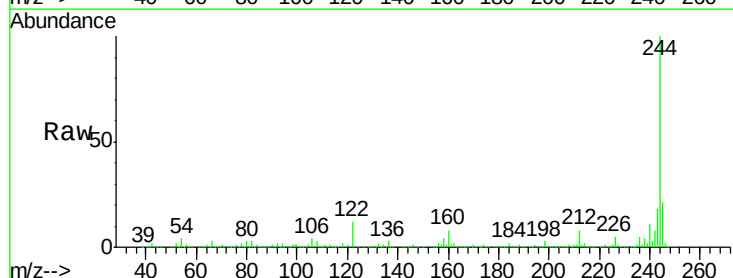
Tgt Ion:244 Resp: 2112433

Ion Ratio Lower Upper

244 100

212 8.1 5.9 8.9

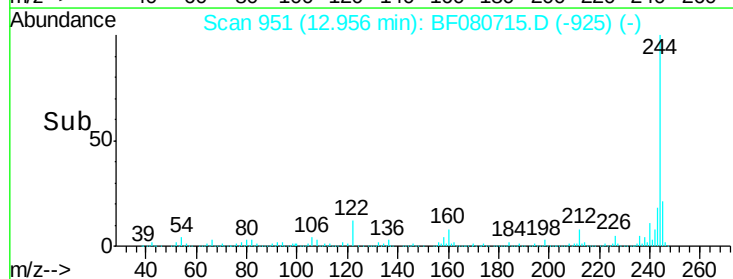
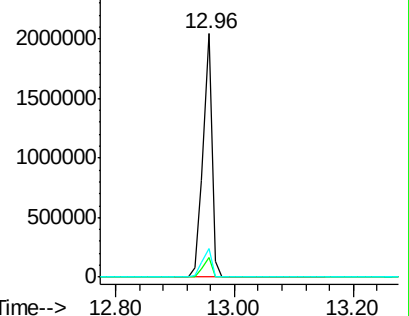
122 11.7 6.6 9.8#

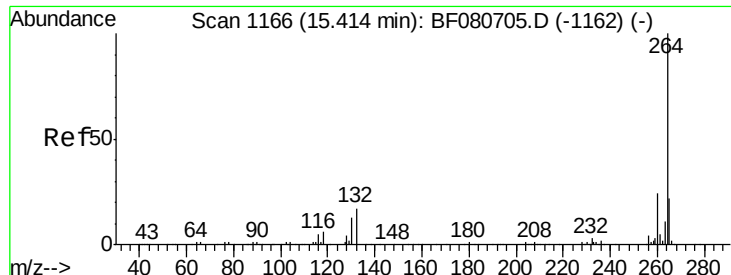


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

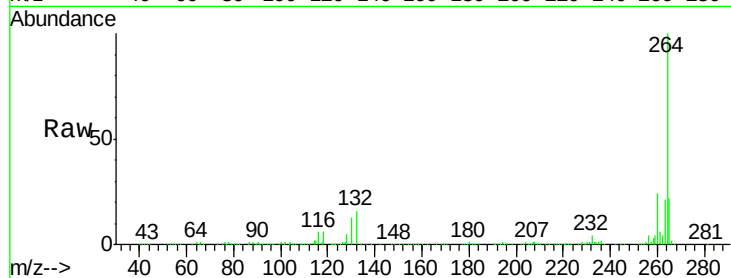




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.41 min Scan# 1166  
Delta R.T. -0.00 min  
Lab File: BF080715.D  
Acq: 31 Jul 2015 2:59

Instrument :  
BNA\_F  
ClientSampleId :  
FBRE

Tgt Ion: 264 Resp: 684673  
Ion Ratio Lower Upper  
264 100  
260 24.2 19.4 29.0  
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

