

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081815\  
 Data File : BF081052.D  
 Acq On : 18 Aug 2015 20:20  
 Operator : UM/IZ  
 Sample : PB85031BL  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 19 00:40:39 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081715.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 17 17:57:25 2015  
 Response via : Initial Calibration

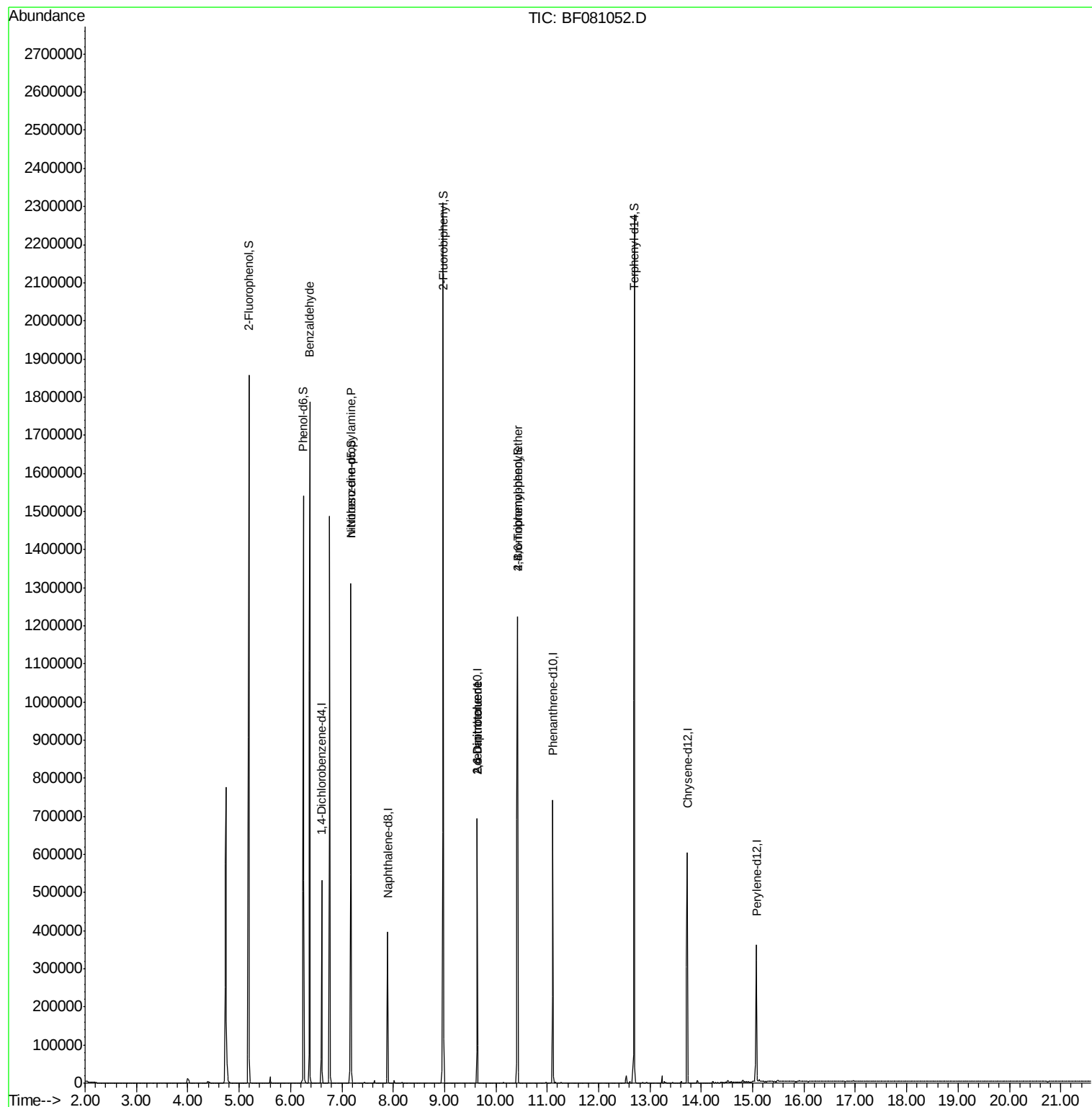
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.60  | 152  | 68412    | 20.00  | ng    | -0.02     |
| 21) Naphthalene-d8             | 7.90  | 136  | 256813   | 20.00  | ng    | -0.01     |
| 38) Acenaphthene-d10           | 9.63  | 164  | 125246   | 20.00  | ng    | -0.02     |
| 63) Phenanthrene-d10           | 11.11 | 188  | 275296   | 20.00  | ng    | -0.02     |
| 75) Chrysene-d12               | 13.73 | 240  | 235823   | 20.00  | ng    | -0.02     |
| 86) Perylene-d12               | 15.07 | 264  | 189472   | 20.00  | ng    | -0.02     |
| System Monitoring Compounds    |       |      |          |        |       |           |
| 5) 2-Fluorophenol              | 5.19  | 112  | 489013   | 107.51 | ng    | 0.00      |
| 7) Phenol-d6                   | 6.25  | 99   | 617875   | 104.12 | ng    | -0.01     |
| 23) Nitrobenzene-d5            | 7.18  | 82   | 440197   | 78.30  | ng    | -0.01     |
| 41) 2,4,6-Tribromophenol       | 10.42 | 330  | 129901   | 119.65 | ng    | -0.02     |
| 44) 2-Fluorobiphenyl           | 8.97  | 172  | 681265   | 71.27  | ng    | -0.02     |
| 78) Terphenyl-d14              | 12.70 | 244  | 718630   | 65.33  | ng    | -0.01     |
| Target Compounds               |       |      |          |        |       |           |
| 9) Benzaldehyde                | 6.38  | 77   | 13812    | 3.61   | ng    | Qvalue 85 |
| 19) n-Nitroso-di-n-propylamine | 7.18  | 70   | 60422    | 14.70  | ng    | # 68      |
| 50) 2,6-Dinitrotoluene         | 9.63  | 165  | 15861    | 7.16   | ng    | # 21      |
| 56) 2,4-Dinitrotoluene         | 9.63  | 165  | 15861    | 5.40   | ng    | # 17      |
| 66) 4-Bromophenyl-phenylether  | 10.42 | 248  | 10552    | 3.90   | ng    | # 1       |

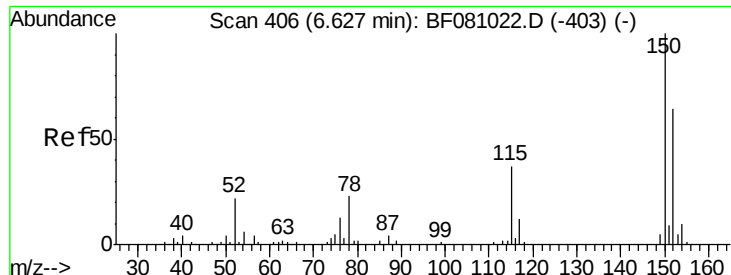
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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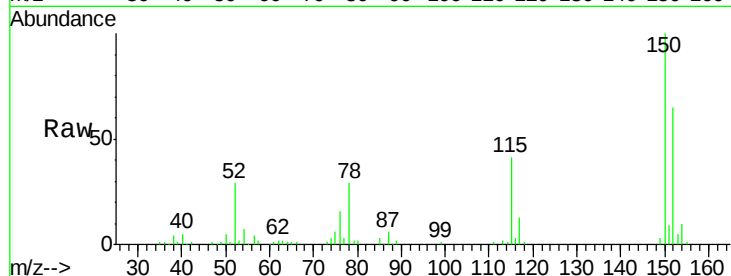


#1

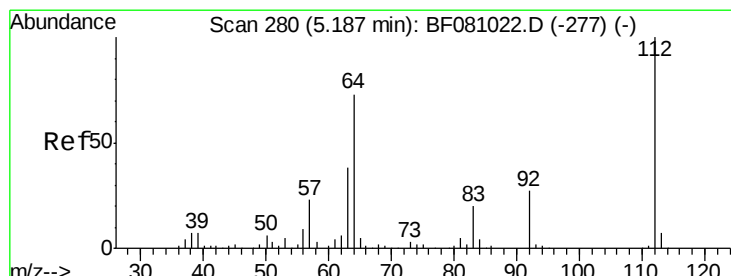
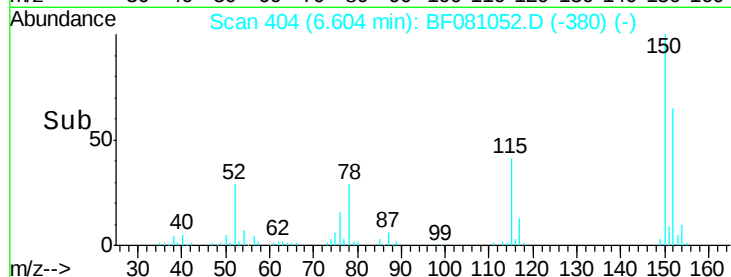
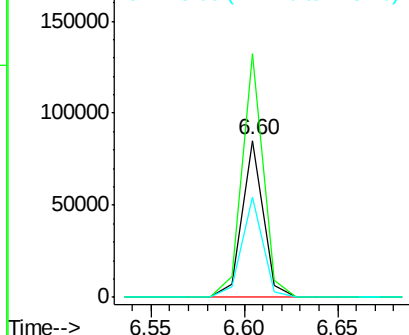
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.60 min Scan# 404  
Delta R.T. -0.02 min  
Lab File: BF081052.D  
Acq: 18 Aug 2015 20:20

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 68412  
Ion Ratio Lower Upper  
152 100  
150 154.9 123.8 185.6  
115 64.0 52.1 78.1



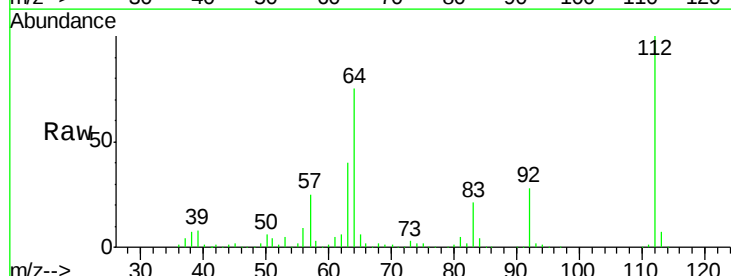
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



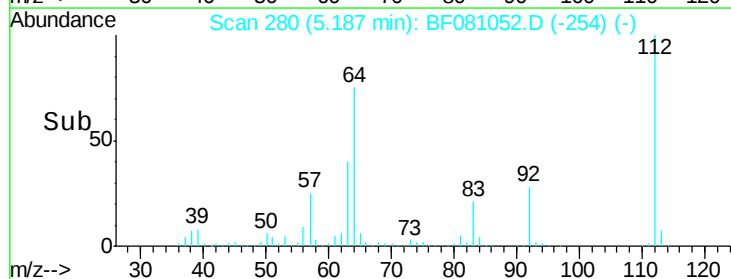
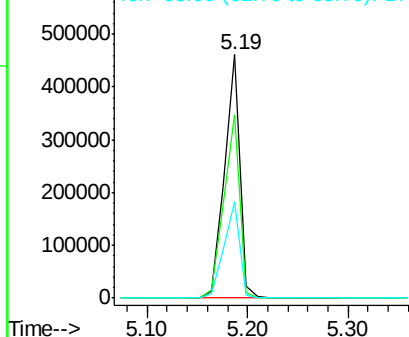
#5

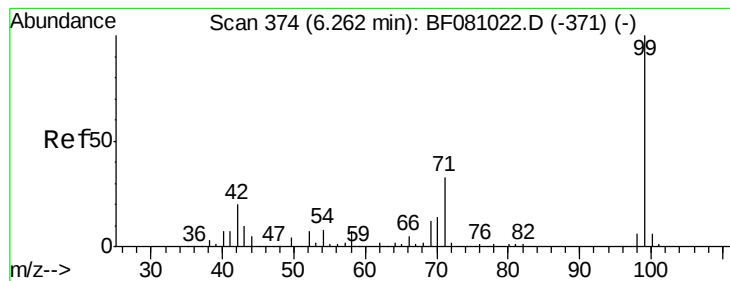
2-Fluorophenol  
Concen: 107.51 ng  
RT: 5.19 min Scan# 280  
Delta R.T. 0.00 min  
Lab File: BF081052.D  
Acq: 18 Aug 2015 20:20

Tgt Ion:112 Resp: 489013  
Ion Ratio Lower Upper  
112 100  
64 75.2 66.9 100.3  
63 39.8 38.1 57.1



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: 104.12 ng

RT: 6.25 min Scan# 373

Delta R.T. -0.01 min

Lab File: BF081052.D

Acq: 18 Aug 2015 20:20

Instrument :

BNA\_F

ClientSampleId :

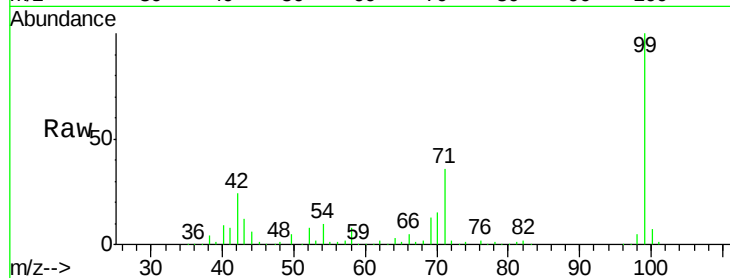
Tot Ion: 99 Resp: 617875

Ion Ratio Lower Upper

99 100

42 23.7 19.6 29.4

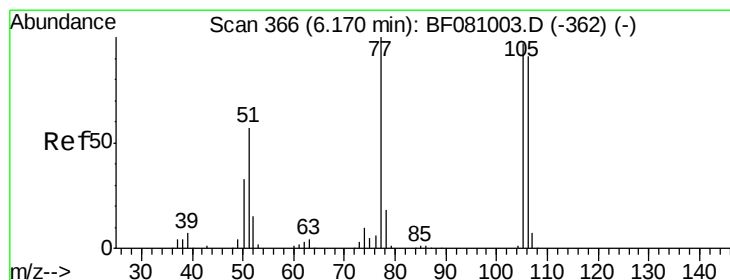
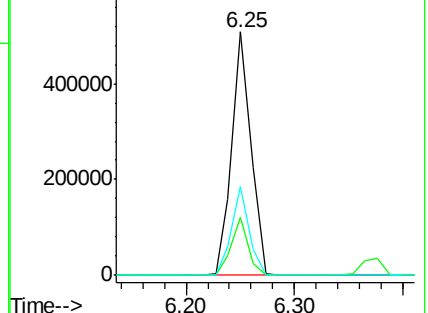
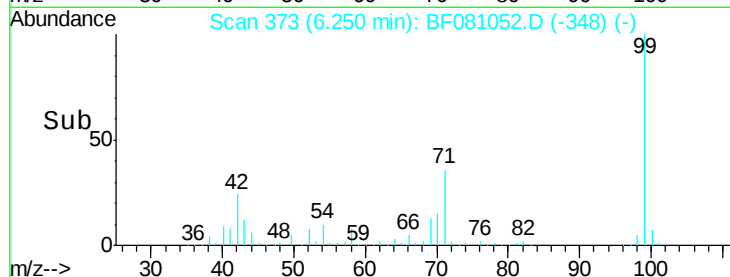
71 36.5 31.2 46.8



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



#9

Benzaldehyde

Concen: 3.61 ng

RT: 6.38 min Scan# 384

Delta R.T. 0.22 min

Lab File: BF081052.D

Acq: 18 Aug 2015 20:20

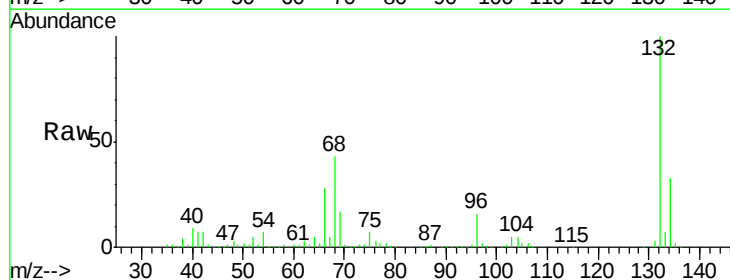
Tgt Ion: 77 Resp: 13812

Ion Ratio Lower Upper

77 100

105 78.7 69.6 109.6

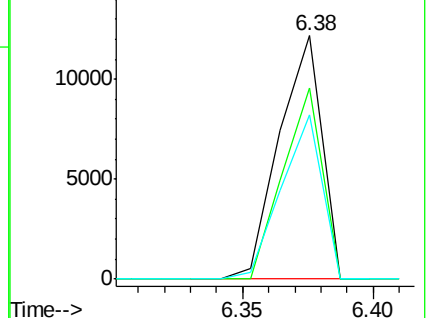
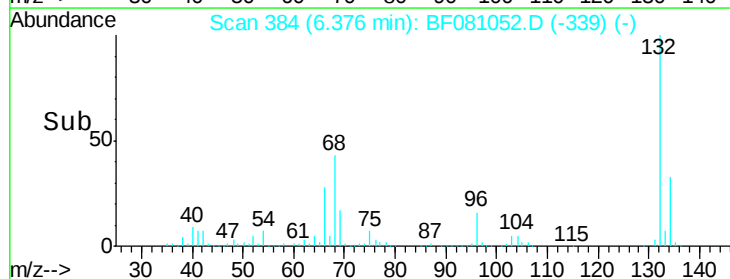
106 67.7 64.0 104.0

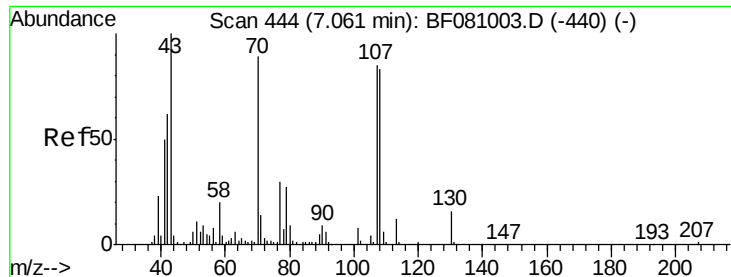


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E

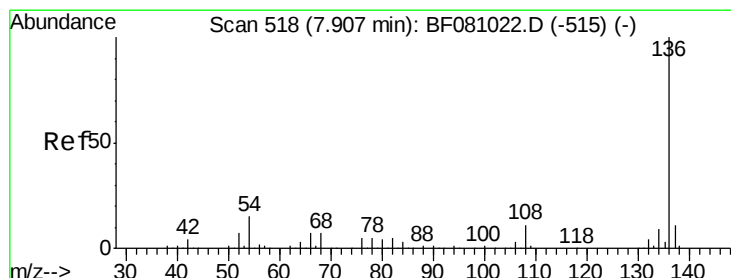
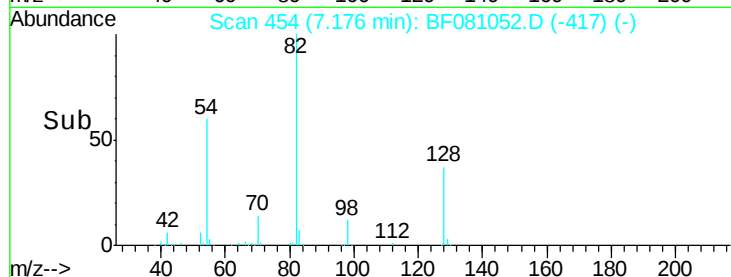
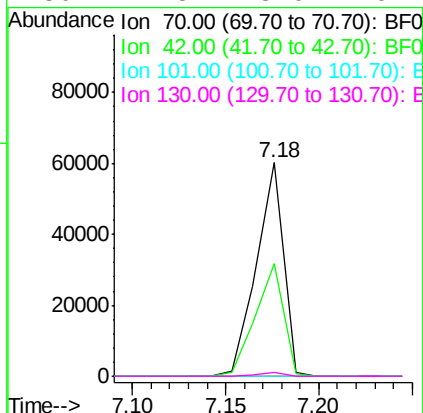
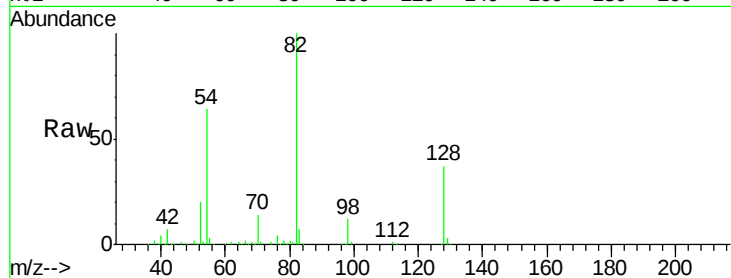




#19  
n-Nitroso-di-n-propylamine  
Concen: 14.70 ng  
RT: 7.18 min Scan# 454  
Delta R.T. 0.13 min  
Lab File: BF081052.D  
Acq: 18 Aug 2015 20:20

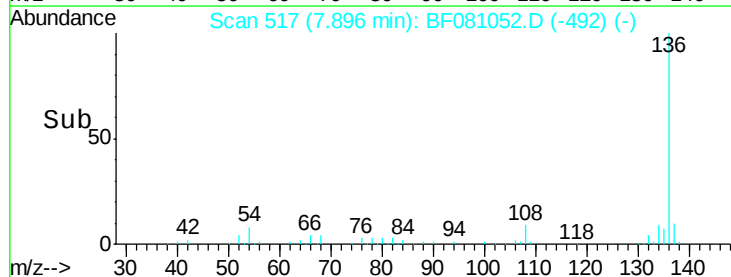
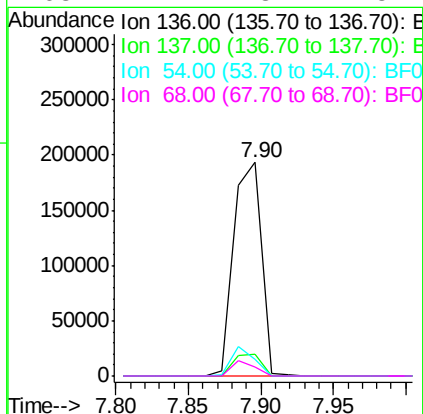
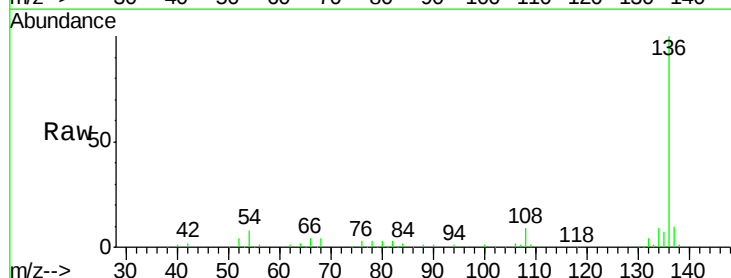
Instrument :  
BNA\_F  
ClientSampleId :

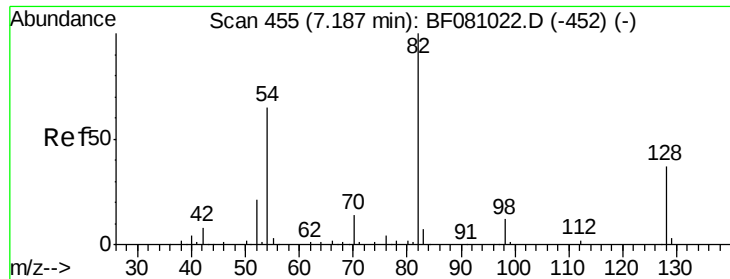
Tot Ion: 70 Resp: 60422  
Ion Ratio Lower Upper  
70 100  
42 52.6 65.0 97.4#  
101 0.0 7.4 11.2#  
130 1.8 13.0 19.4#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.90 min Scan# 517  
Delta R.T. -0.01 min  
Lab File: BF081052.D  
Acq: 18 Aug 2015 20:20

Tgt Ion: 136 Resp: 256813  
Ion Ratio Lower Upper  
136 100  
137 10.2 8.2 12.2  
54 7.8 7.7 11.5  
68 4.2 3.4 5.2

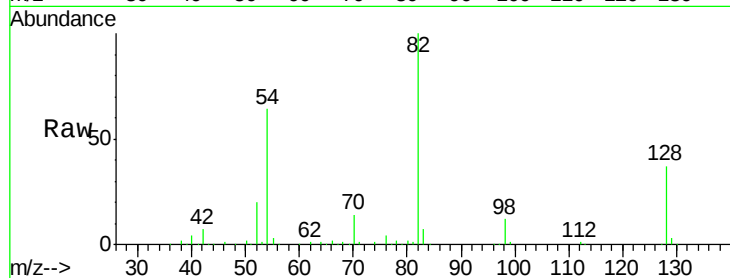




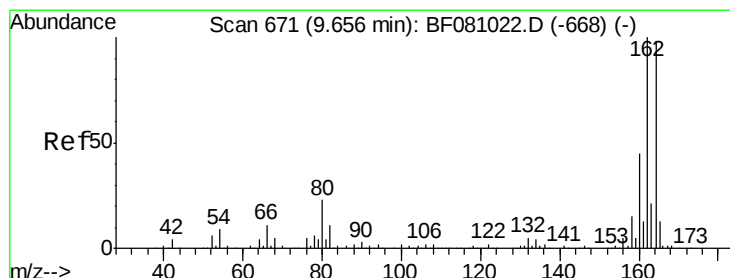
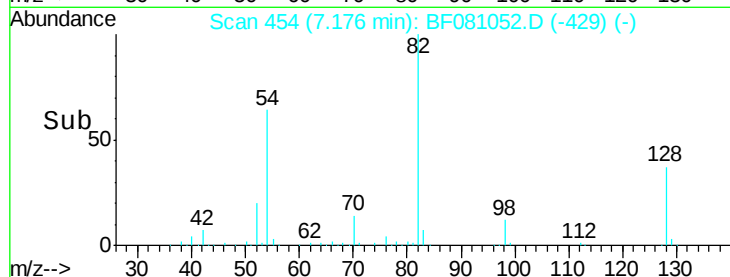
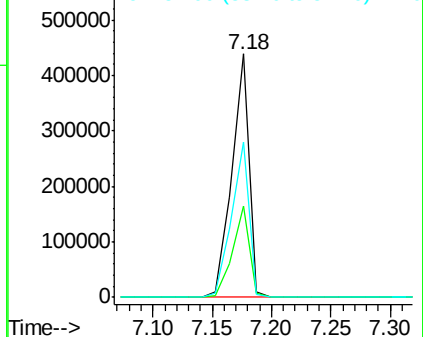
#23  
 Nitrobenzene-d5  
 Concen: 78.30 ng  
 RT: 7.18 min Scan# 454  
 Delta R.T. -0.01 min  
 Lab File: BF081052.D  
 Acq: 18 Aug 2015 20:20

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion   | 82    | Resp  | 440197 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 37.5  | 28.6  | 42.8   |
| 54        | 63.6  | 55.1  | 82.7   |

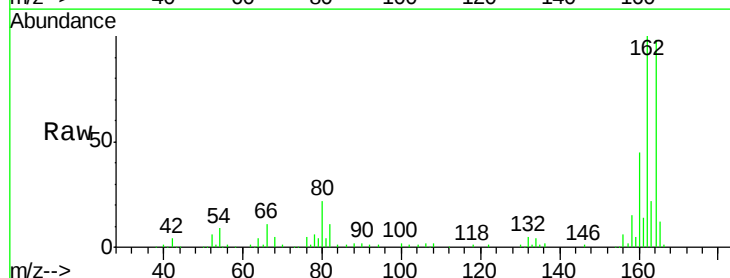


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BF0

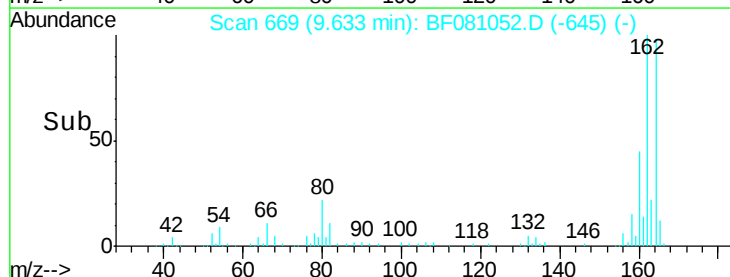
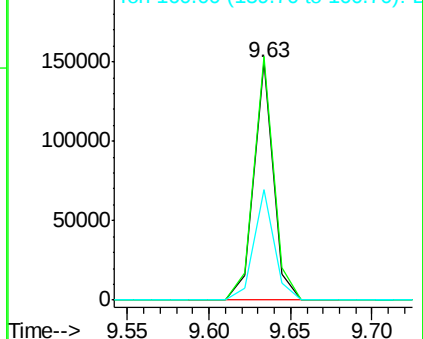


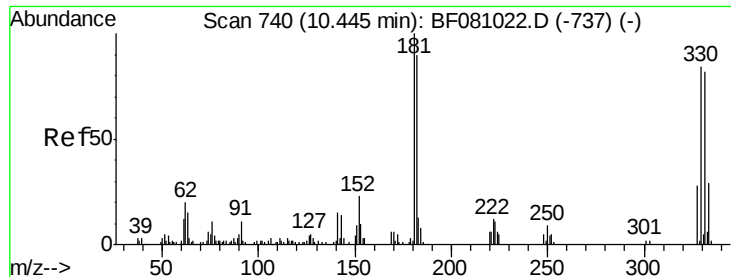
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.63 min Scan# 669  
 Delta R.T. -0.02 min  
 Lab File: BF081052.D  
 Acq: 18 Aug 2015 20:20

| Tgt Ion   | 164   | Resp  | 125246 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 102.1 | 83.8  | 125.8  |
| 160       | 46.1  | 39.8  | 59.8   |



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

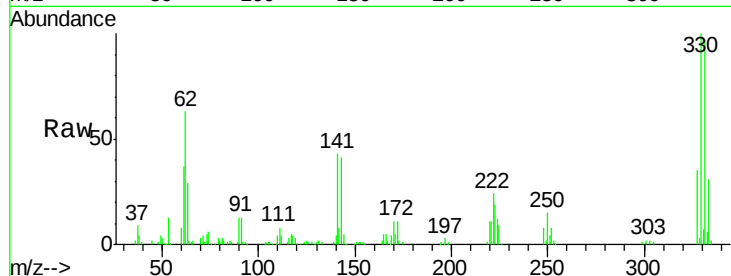




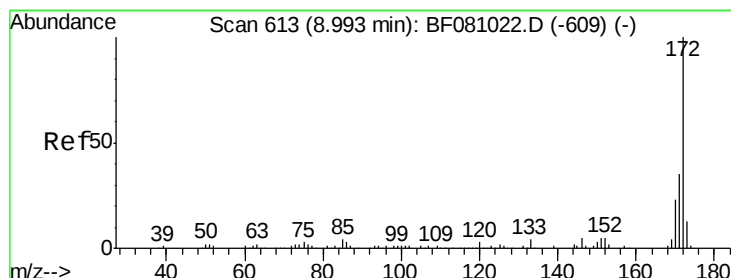
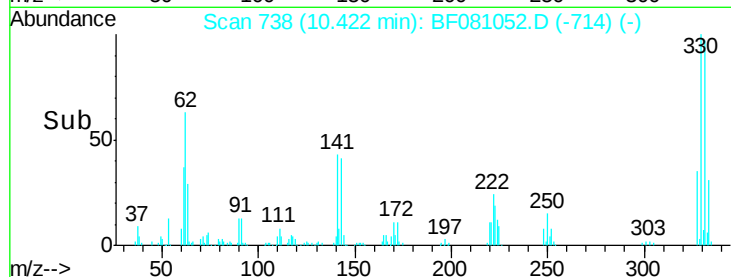
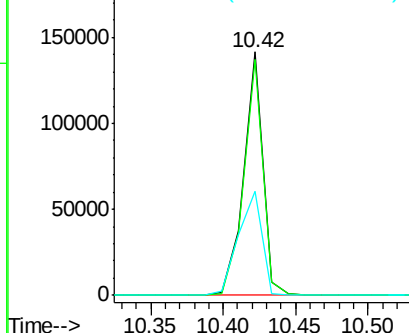
#41  
 2,4,6-Tribromophenol  
 Concen: 119.65 ng  
 RT: 10.42 min Scan# 738  
 Delta R.T. -0.02 min  
 Lab File: BF081052.D  
 Acq: 18 Aug 2015 20:20

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.9  | 77.3  | 115.9 |
| 141     | 52.6  | 44.9  | 67.3  |

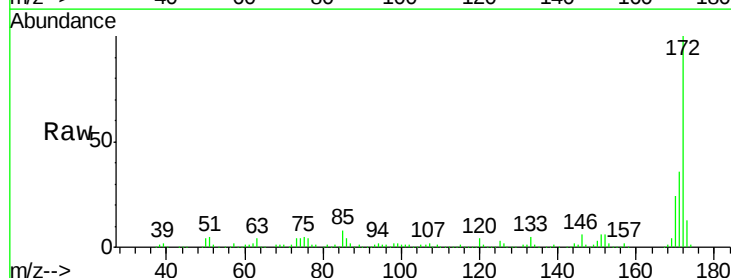


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

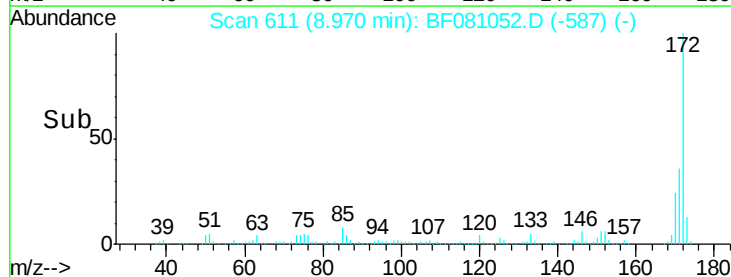
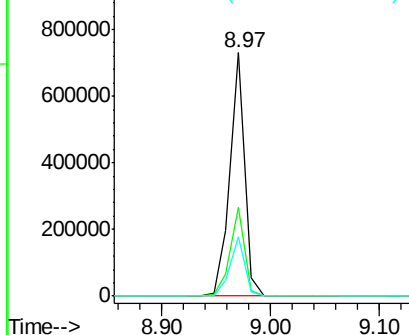


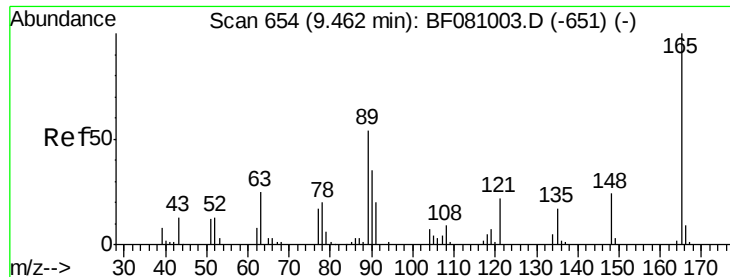
#44  
 2-Fluorobiphenyl  
 Concen: 71.27 ng  
 RT: 8.97 min Scan# 611  
 Delta R.T. -0.02 min  
 Lab File: BF081052.D  
 Acq: 18 Aug 2015 20:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.4  | 28.9  | 43.3  |
| 170     | 24.4  | 19.4  | 29.2  |



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

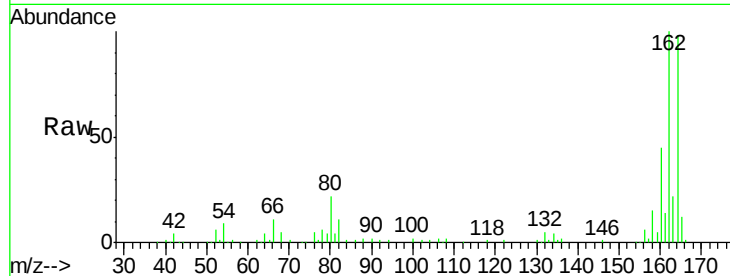




#50  
 2,6-Dinitrotoluene  
 Concen: 7.16 ng  
 RT: 9.63 min Scan# 669  
 Delta R.T. 0.18 min  
 Lab File: BF081052.D  
 Acq: 18 Aug 2015 20:20

Instrument :  
 BNA\_F  
 ClientSampleId :

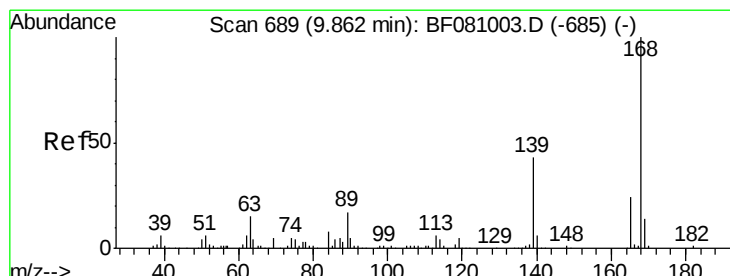
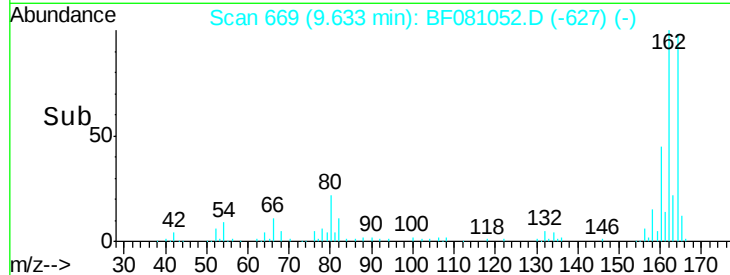
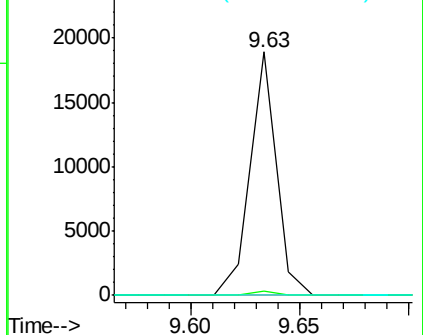
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.6   | 49.5  | 74.3# |
| 89      | 0.0   | 47.6  | 71.4# |



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#56  
 2,4-Dinitrotoluene  
 Concen: 5.40 ng  
 RT: 9.63 min Scan# 669  
 Delta R.T. -0.22 min  
 Lab File: BF081052.D  
 Acq: 18 Aug 2015 20:20

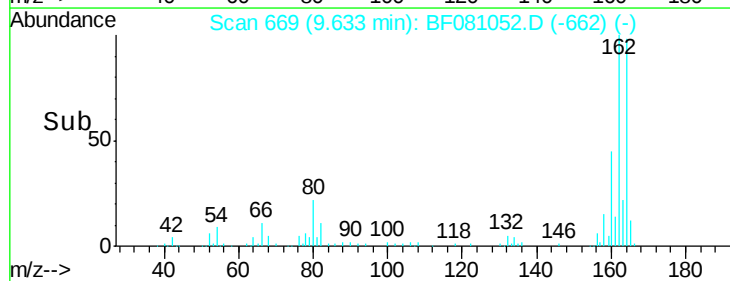
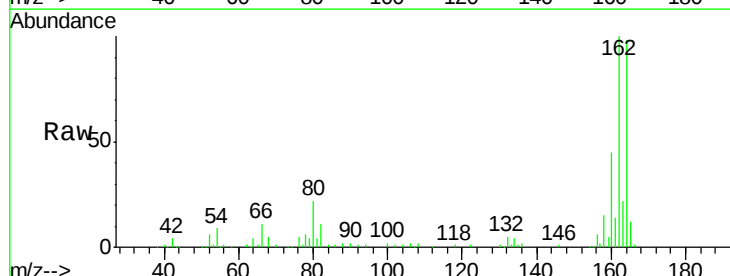
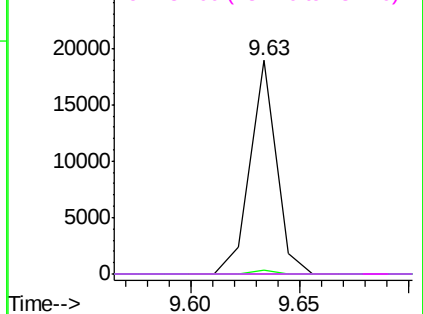
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.6   | 52.2  | 78.4# |
| 89      | 0.0   | 60.1  | 90.1# |
| 182     | 0.0   | 1.8   | 2.6#  |

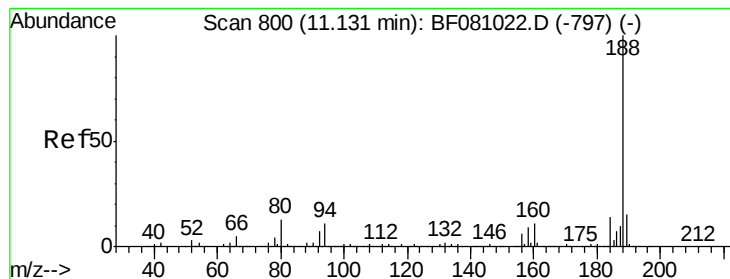
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.11 min Scan# 798

Delta R.T. -0.02 min

Lab File: BF081052.D

Acq: 18 Aug 2015 20:20

Instrument :

BNA\_F

ClientSampleId :

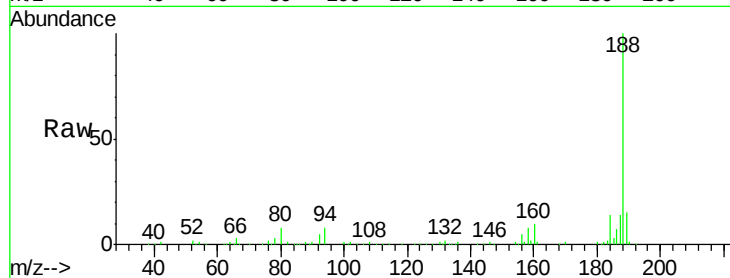
Tot Ion:188 Resp: 275296

Ion Ratio Lower Upper

188 100

94 7.9 8.2 12.2#

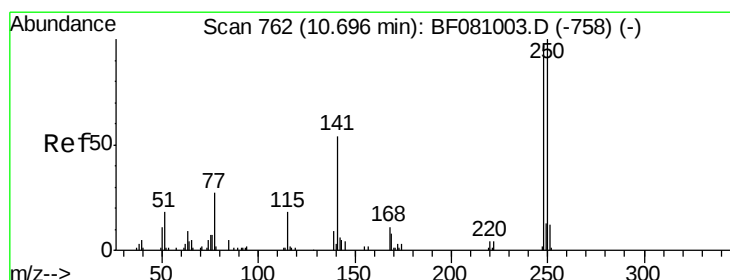
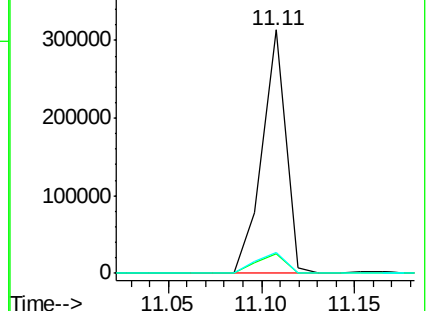
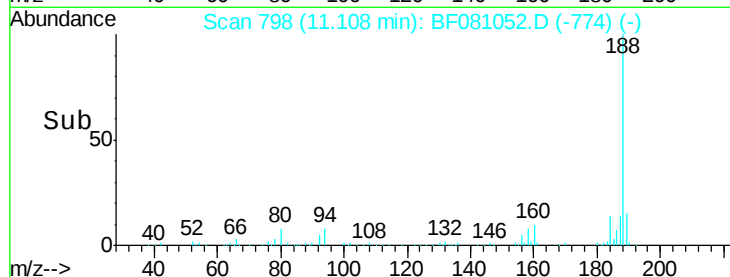
80 8.5 9.5 14.3#



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: 3.90 ng

RT: 10.42 min Scan# 738

Delta R.T. -0.26 min

Lab File: BF081052.D

Acq: 18 Aug 2015 20:20

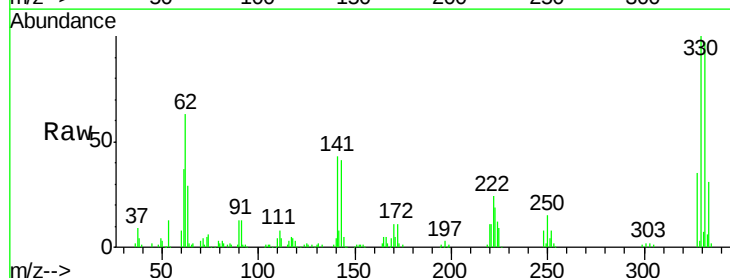
Tgt Ion:248 Resp: 10552

Ion Ratio Lower Upper

248 100

250 192.7 77.8 116.6#

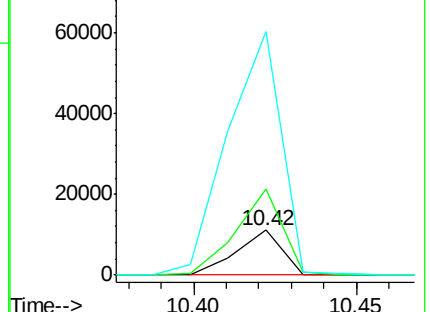
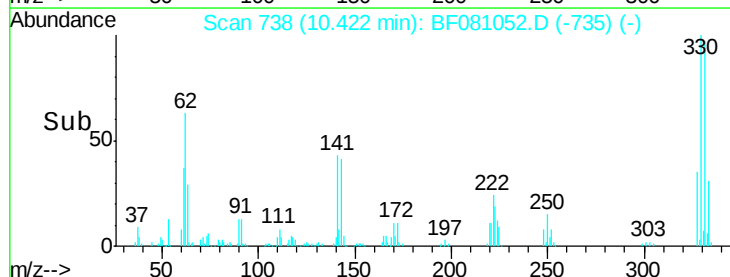
141 541.9 39.8 59.6#

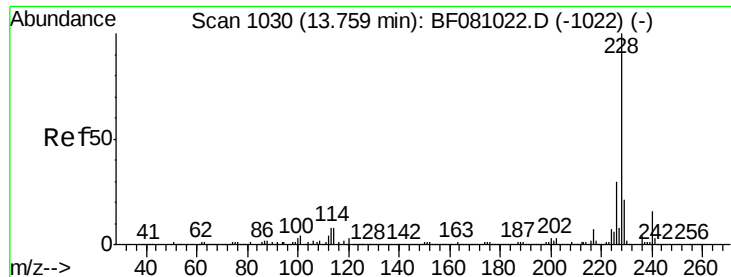


Abundance Ion 248.00 (247.70 to 248.70): E

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: 13.73 min Scan# 1027

Delta R.T. -0.02 min

Lab File: BF081052.D

Acq: 18 Aug 2015 20:20

Instrument :

BNA\_F

ClientSampleId :

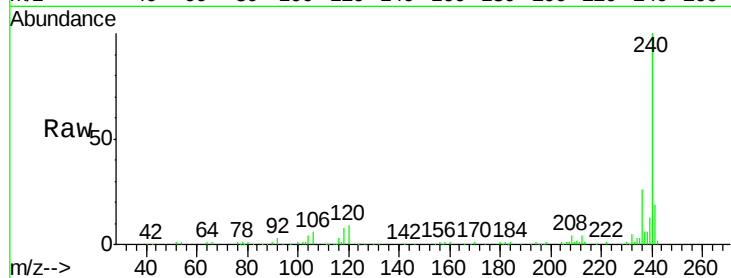
Tot Ion:240 Resp: 235823

Ion Ratio Lower Upper

240 100

120 9.1 5.6 8.4#

236 26.3 20.6 30.8



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

300000

250000

200000

150000

100000

50000

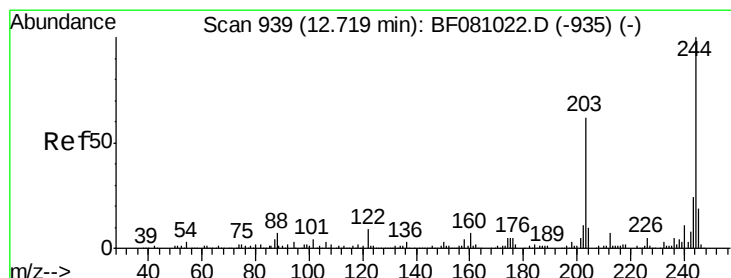
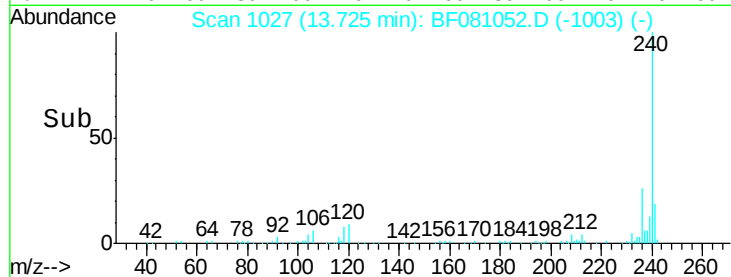
0

13.73

13.70

13.80

Time-->



#78

Terphenyl-d14

Concen: 65.33 ng

RT: 12.70 min Scan# 937

Delta R.T. -0.01 min

Lab File: BF081052.D

Acq: 18 Aug 2015 20:20

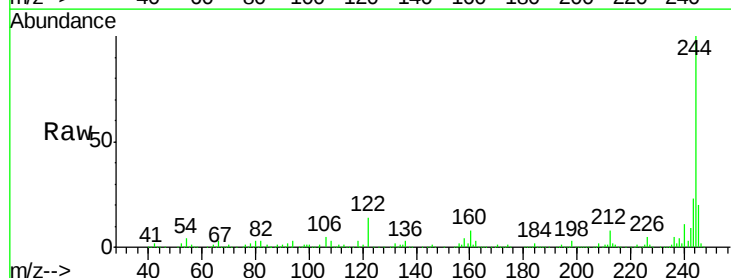
Tgt Ion:244 Resp: 718630

Ion Ratio Lower Upper

244 100

212 7.9 5.8 8.8

122 13.8 8.2 12.4#



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

800000

600000

400000

200000

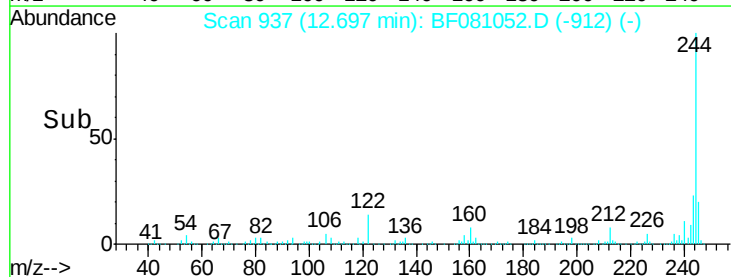
0

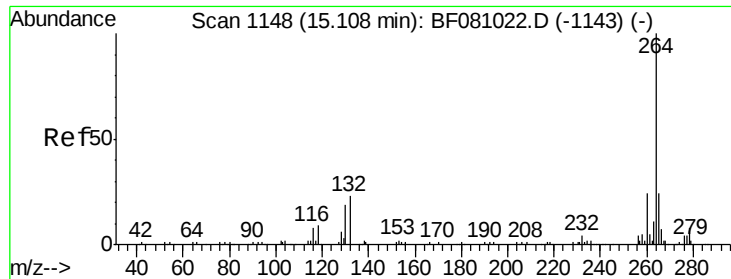
12.70

12.60

12.80

Time-->

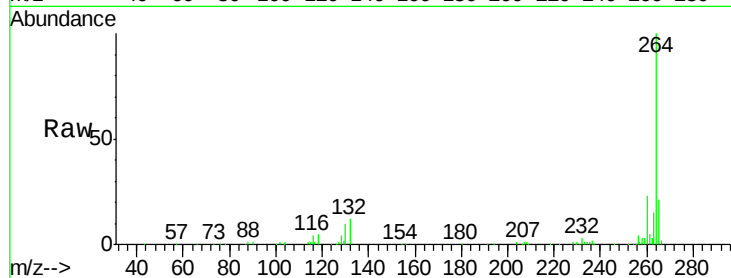




#86  
 Pervlene-d12  
 Concen: 20.00 ng  
 RT: 15.07 min Scan# 1145  
 Delta R.T. -0.02 min  
 Lab File: BF081052.D  
 Acq: 18 Aug 2015 20:20

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.2  | 19.6  | 29.4  |
| 265     | 20.9  | 17.5  | 26.3  |



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

