

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032117\  
 Data File : BF093823.D  
 Acq On : 22 Mar 2017 8:13  
 Operator : SJ/MA  
 Sample : I2329-02  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Mar 22 08:33:57 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Mar 21 14:38:20 2017  
 Response via : Initial Calibration

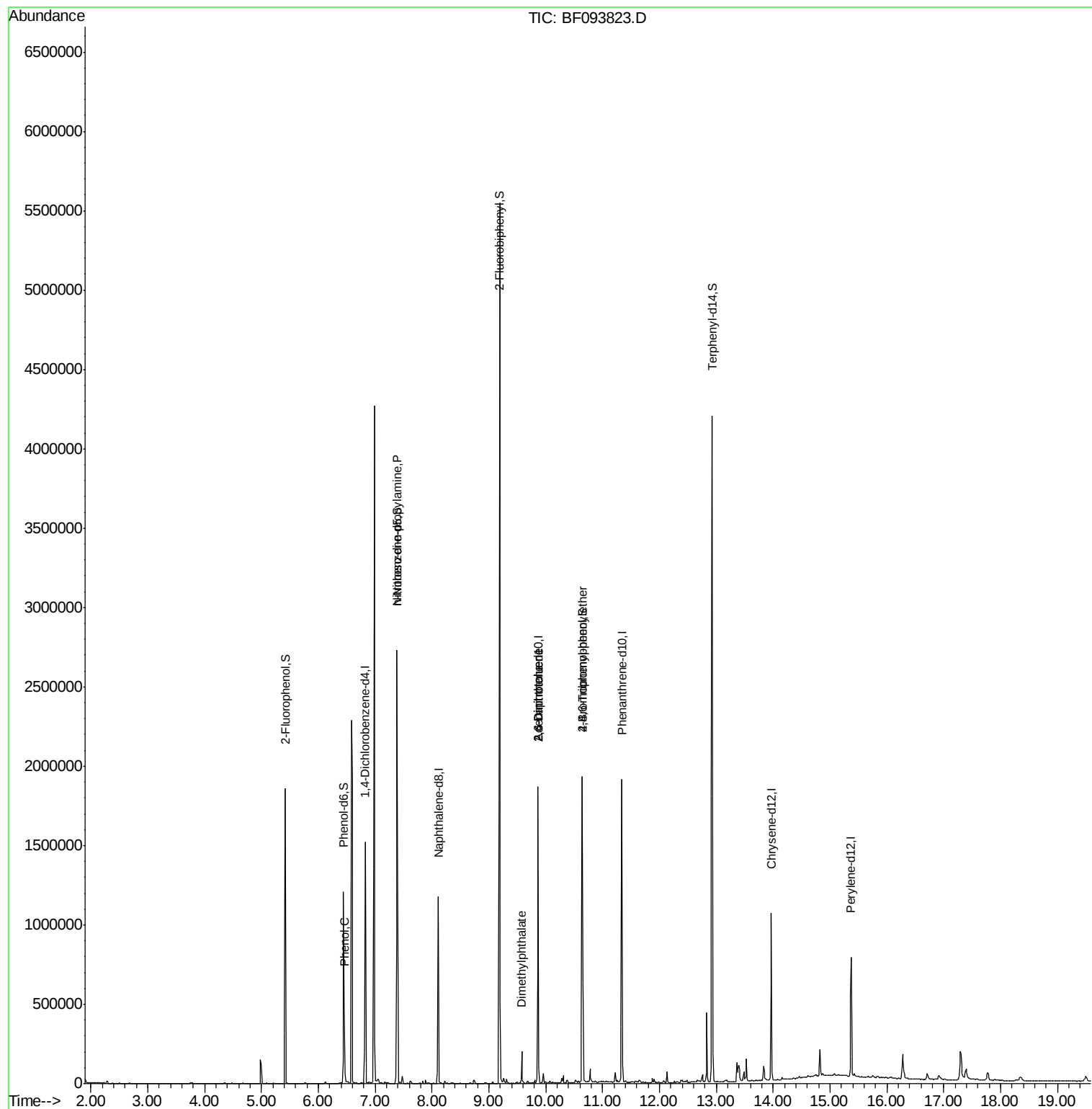
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.82  | 152  | 213292   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.12  | 136  | 847854   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.86  | 164  | 403339   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.34 | 188  | 640711   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12               | 13.97 | 240  | 413978   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12               | 15.37 | 264  | 353159   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.42  | 112  | 490540   | 40.22 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.45  | 99   | 384645   | 25.52 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.38  | 82   | 1157510  | 77.45 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.64 | 330  | 239439   | 76.64 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.19  | 172  | 1879424  | 78.35 | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.93 | 244  | 1354667  | 66.72 | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       |          |
| 10) Phenol                     | 6.46  | 94   | 76568    | 4.52  | ng    | 95       |
| 19) n-Nitroso-di-n-propylamine | 7.38  | 70   | 152266   | 15.42 | ng    | # 80     |
| 49) Dimethylphthalate          | 9.58  | 163  | 77791    | 2.71  | ng    | 98       |
| 50) 2,6-Dinitrotoluene         | 9.86  | 165  | 51018    | 8.10  | ng    | # 34     |
| 56) 2,4-Dinitrotoluene         | 9.86  | 165  | 51009    | 6.38  | ng    | # 33     |
| 66) 4-Bromophenyl-phenylether  | 10.64 | 248  | 16118    | 2.61  | ng    | # 1      |

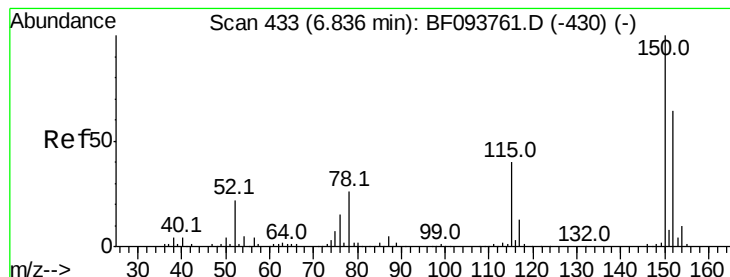
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Mar 21 14:38:20 2017  
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.82 min Scan# 432

Delta R.T. 0.00 min

Lab File: BF093823.D

Acq: 22 Mar 2017 8:13

Instrument :

BNA\_F

ClientSampleId :

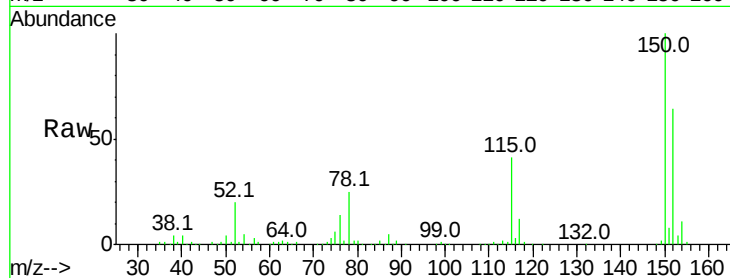
Tot Ion:152 Resp: 213292

Ion Ratio Lower Upper

152 100

150 157.2 126.2 189.2

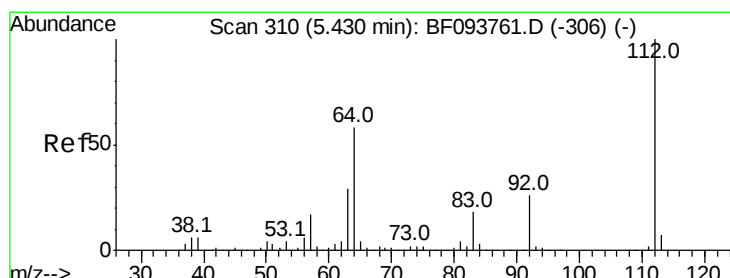
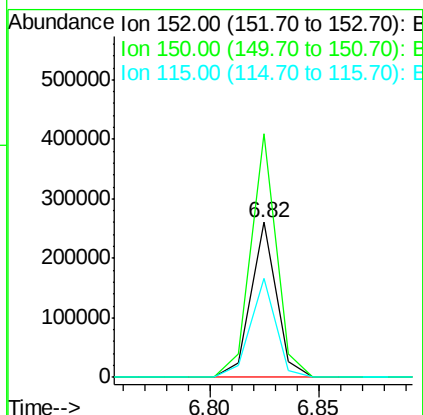
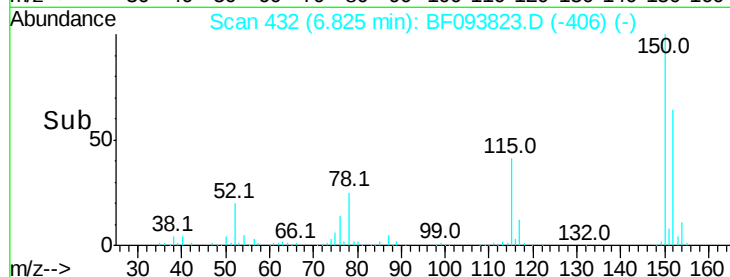
115 63.9 52.2 78.2



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: 40.22 ng

RT: 5.42 min Scan# 309

Delta R.T. 0.00 min

Lab File: BF093823.D

Acq: 22 Mar 2017 8:13

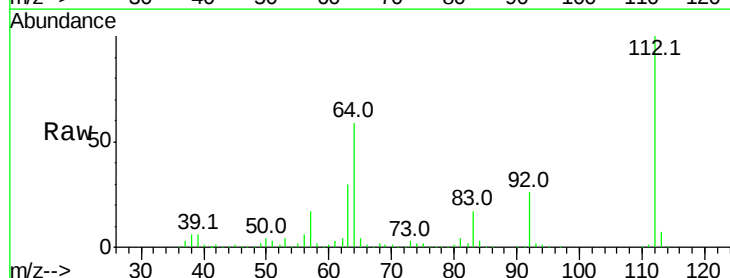
Tgt Ion:112 Resp: 490540

Ion Ratio Lower Upper

112 100

64 58.7 46.0 69.0

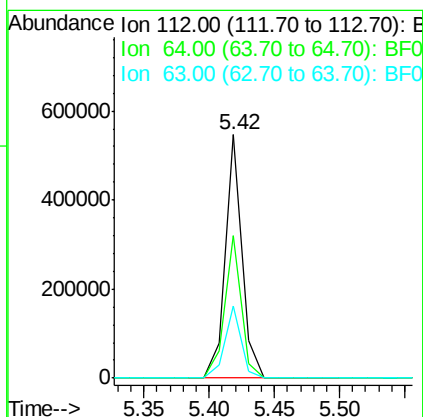
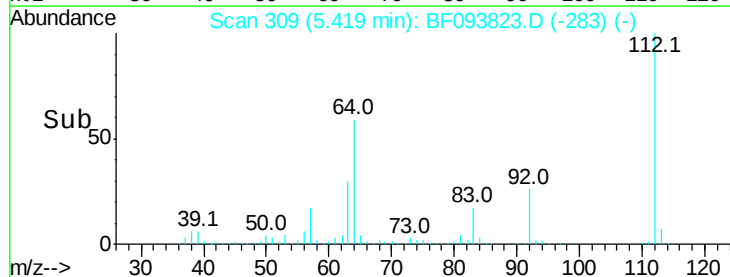
63 29.8 23.4 35.0

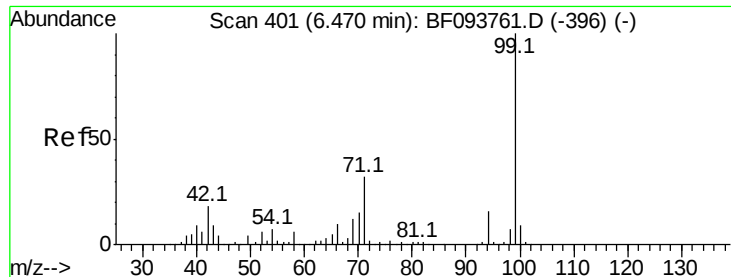


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 25.52 ng

RT: 6.45 min Scan# 399

Delta R.T. -0.01 min

Lab File: BF093823.D

Acq: 22 Mar 2017 8:13

Instrument :

BNA\_F

ClientSampled :

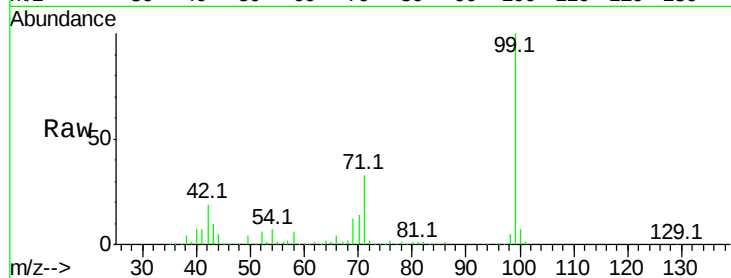
Tot Ion: 99 Resp: 384645

Ion Ratio Lower Upper

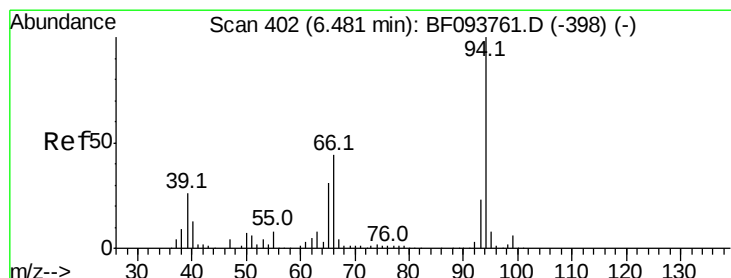
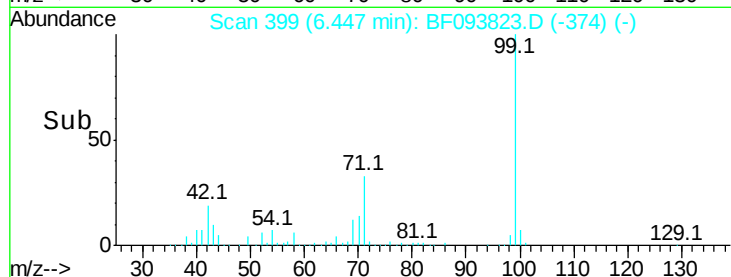
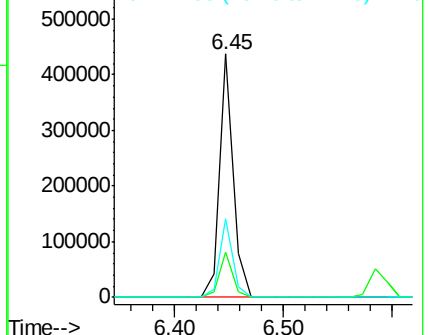
99 100

42 18.8 13.5 20.3

71 32.5 24.5 36.7



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



#10

Phenol

Concen: 4.52 ng

RT: 6.46 min Scan# 400

Delta R.T. -0.01 min

Lab File: BF093823.D

Acq: 22 Mar 2017 8:13

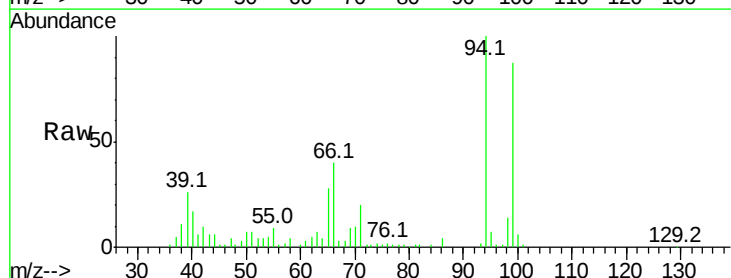
Tgt Ion: 94 Resp: 76568

Ion Ratio Lower Upper

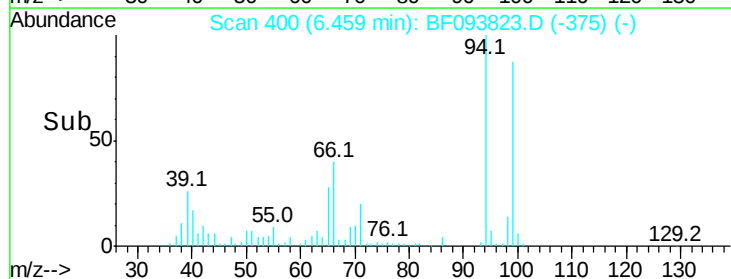
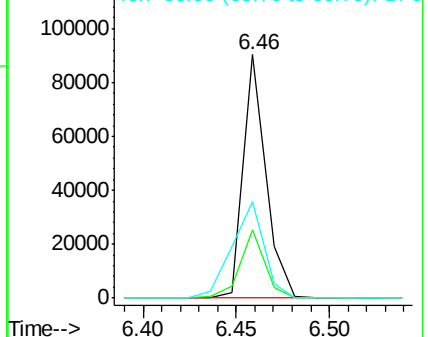
94 100

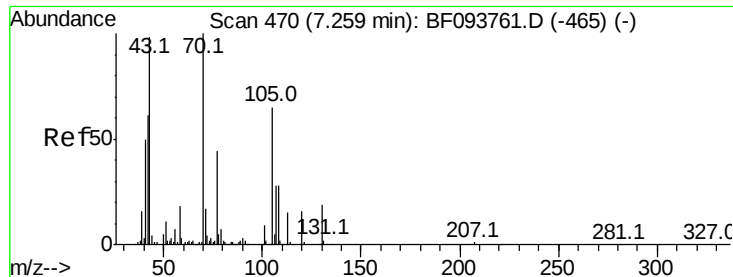
65 28.2 9.9 49.9

66 39.5 23.1 63.1



Abundance Ion 94.00 (93.70 to 94.70): BF0  
Ion 65.00 (64.70 to 65.70): BF0  
Ion 66.00 (65.70 to 66.70): BF0

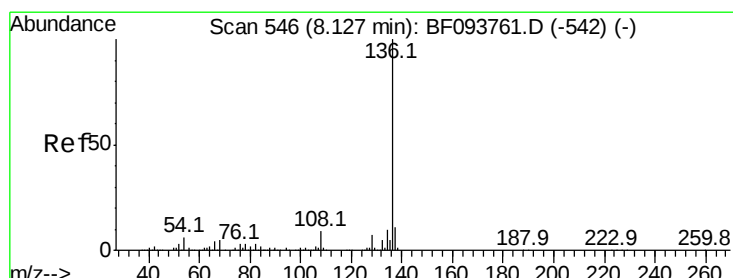
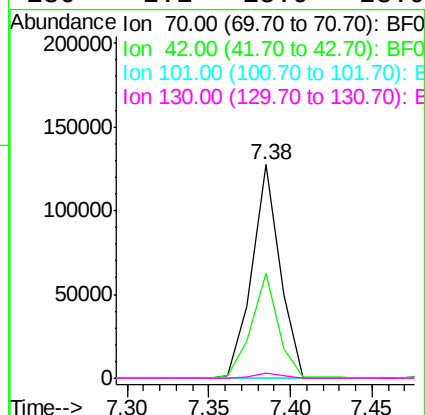
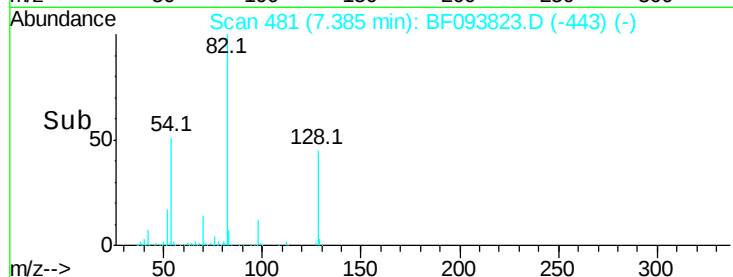
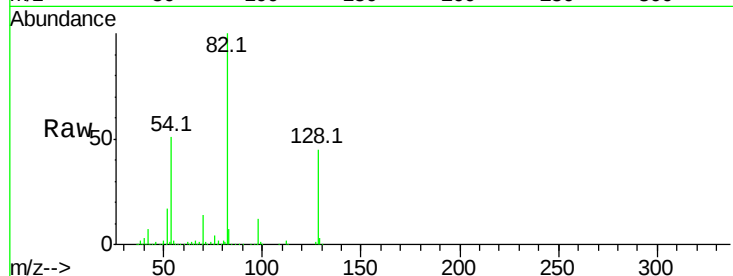




#19  
n-Nitroso-di-n-propylamine  
Concen: 15.42 ng  
RT: 7.38 min Scan# 481  
Delta R.T. 0.14 min  
Lab File: BF093823.D  
Acq: 22 Mar 2017 8:13

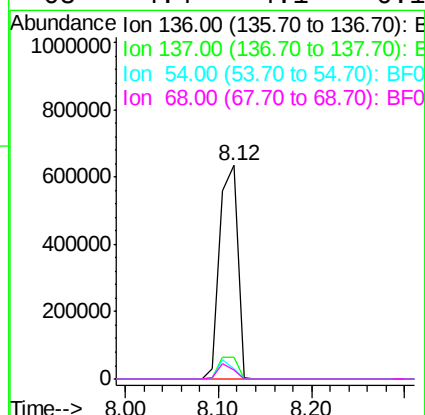
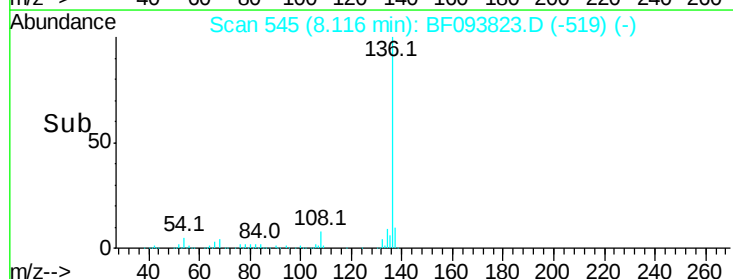
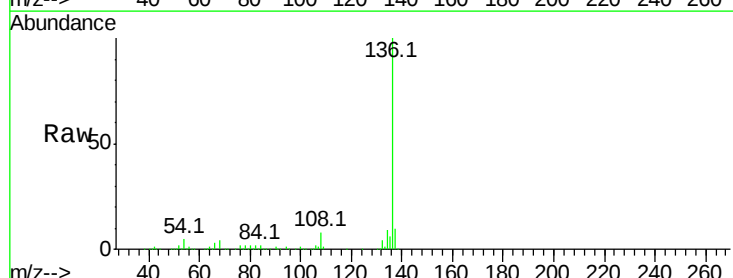
Instrument :  
BNA\_F  
ClientSampleId :

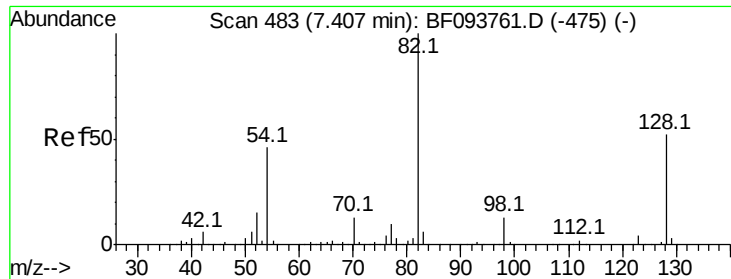
| Tot Ion | 70   | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 70      | 100  |       |       |       |
| 42      | 49.3 | 47.2  | 70.8  |       |
| 101     | 0.0  | 7.2   | 10.8  |       |
| 130     | 2.1  | 15.9  | 23.9  |       |



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.12 min Scan# 545  
Delta R.T. 0.00 min  
Lab File: BF093823.D  
Acq: 22 Mar 2017 8:13

| Tgt Ion | 136  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 136     | 100  |       |       |       |
| 137     | 10.3 | 8.5   | 12.7  |       |
| 54      | 4.7  | 4.9   | 7.3   |       |
| 68      | 4.4  | 4.1   | 6.1   |       |

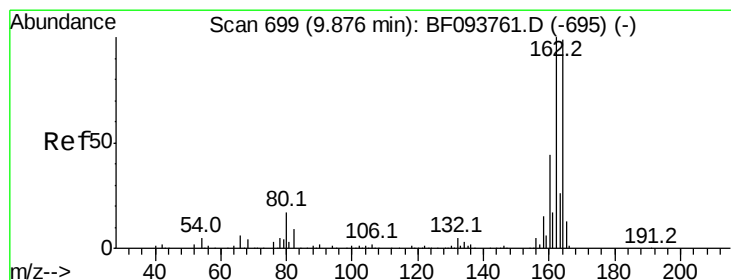
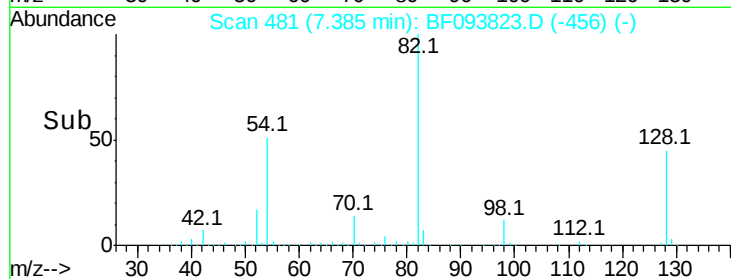
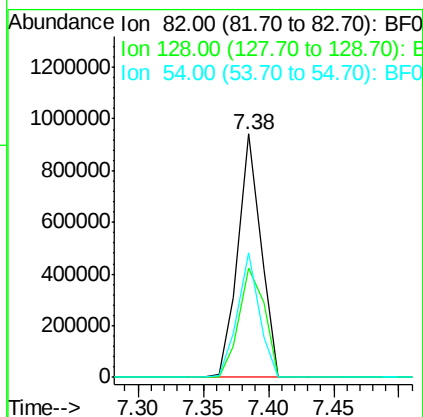
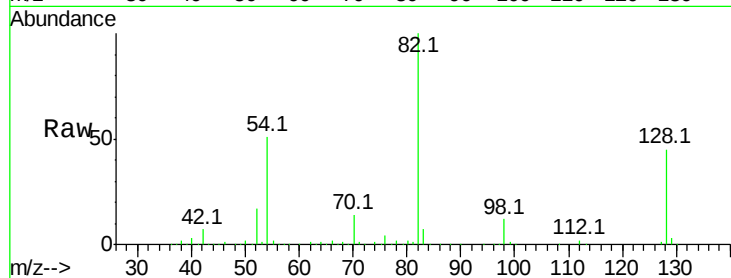




#23  
 Nitrobenzene-d5  
 Concen: 77.45 ng  
 RT: 7.38 min Scan# 481  
 Delta R.T. -0.01 min  
 Lab File: BF093823.D  
 Acq: 22 Mar 2017 8:13

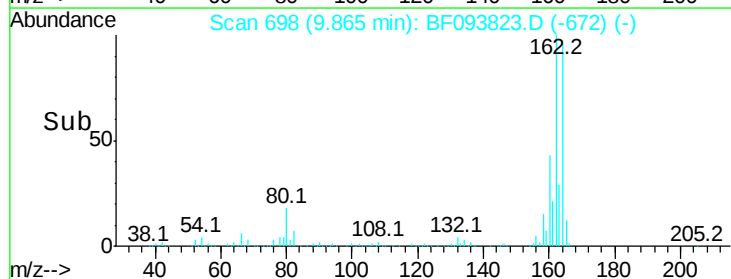
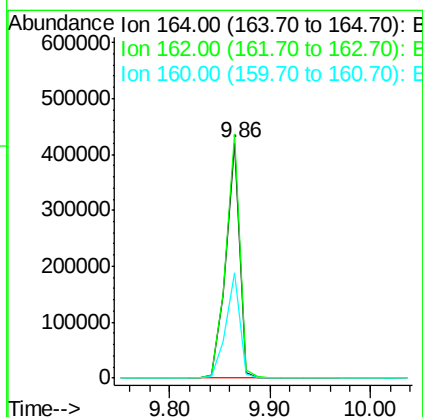
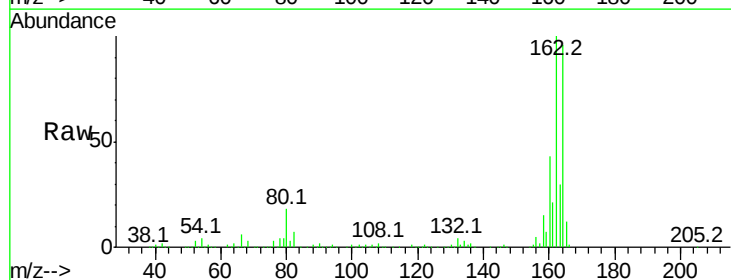
Instrument :  
 BNA\_F  
 ClientSampleID :

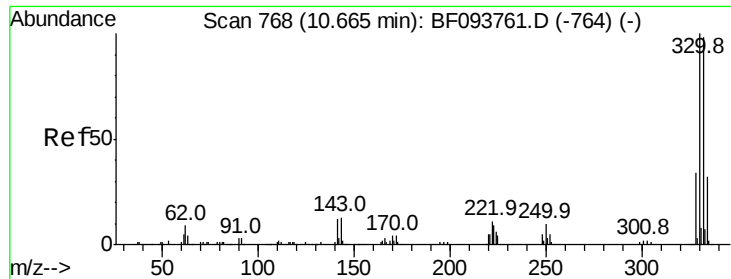
Tot Ion: 82 Resp: 1157510  
 Ion Ratio Lower Upper  
 82 100  
 128 44.7 34.0 51.0  
 54 51.2 42.2 63.2



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.86 min Scan# 698  
 Delta R.T. 0.00 min  
 Lab File: BF093823.D  
 Acq: 22 Mar 2017 8:13

Tgt Ion:164 Resp: 403339  
 Ion Ratio Lower Upper  
 164 100  
 162 103.8 82.6 123.8  
 160 45.1 36.2 54.2

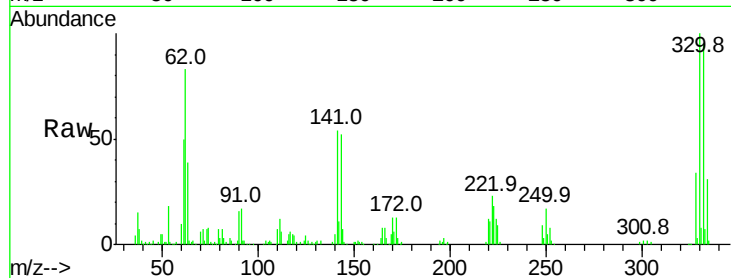




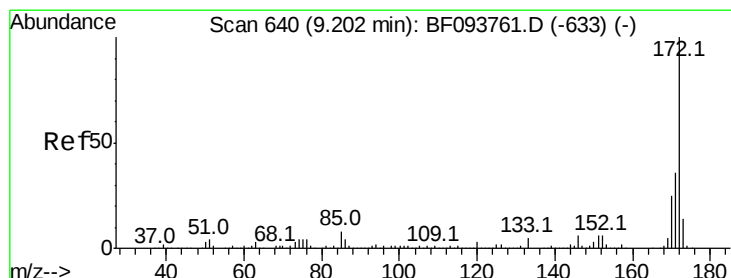
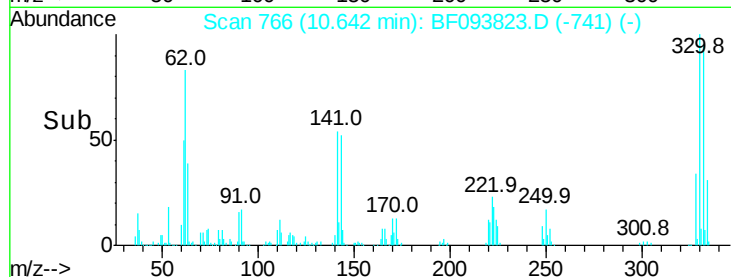
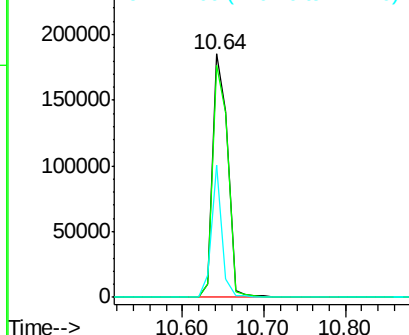
#41  
 2,4,6-Tribromophenol  
 Concen: 76.64 ng  
 RT: 10.64 min Scan# 766  
 Delta R.T. -0.01 min  
 Lab File: BF093823.D  
 Acq: 22 Mar 2017 8:13

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.8  | 76.6  | 115.0 |
| 141     | 38.8  | 31.4  | 47.2  |

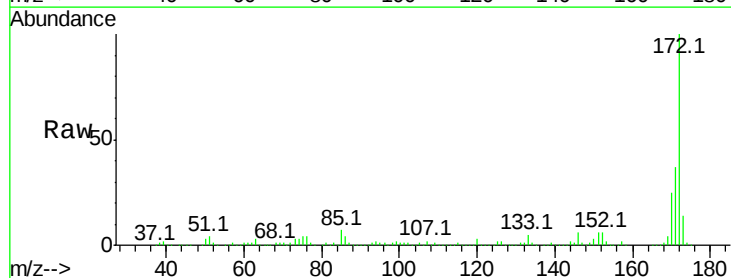


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

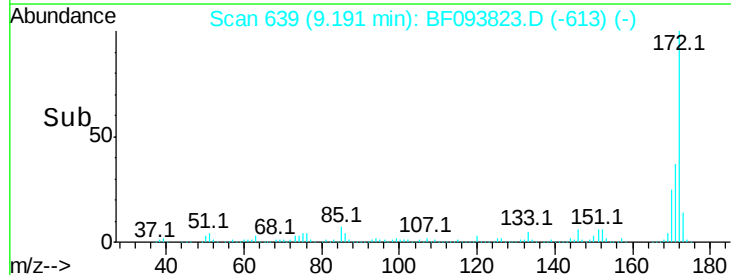
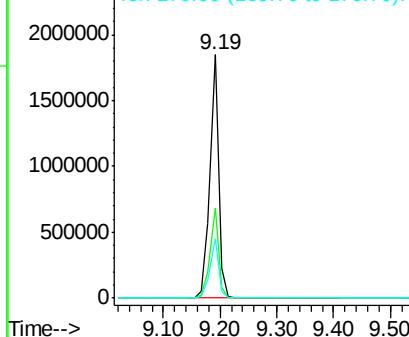


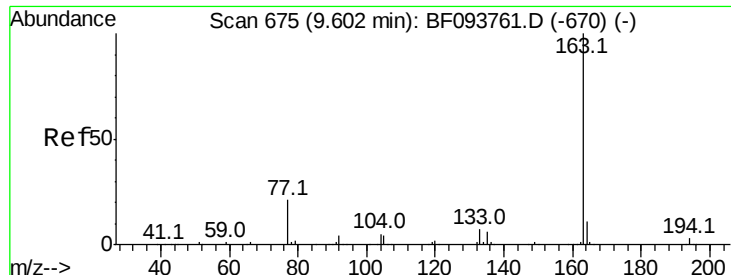
#44  
 2-Fluorobiphenyl  
 Concen: 78.35 ng  
 RT: 9.19 min Scan# 639  
 Delta R.T. 0.00 min  
 Lab File: BF093823.D  
 Acq: 22 Mar 2017 8:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.1  | 29.6  | 44.4  |
| 170     | 24.6  | 19.8  | 29.8  |



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

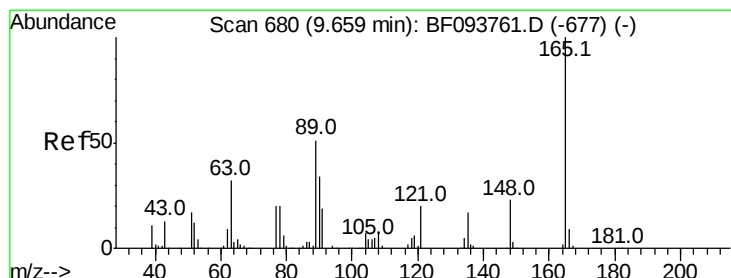
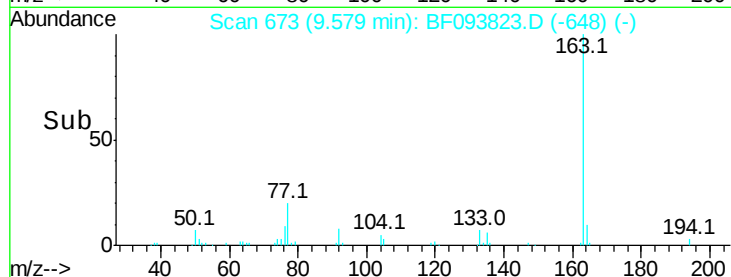
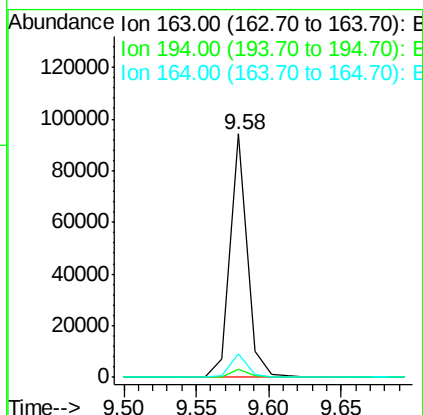
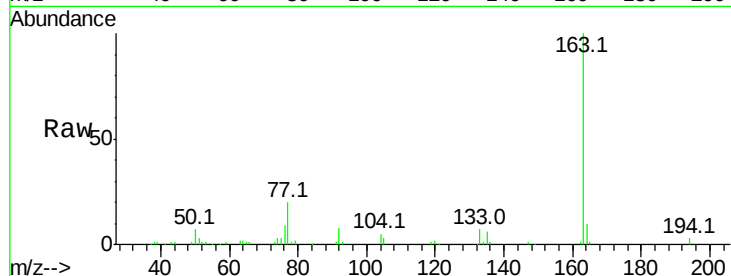




#49  
Dimethylphthalate  
Concen: 2.71 ng  
RT: 9.58 min Scan# 673  
Delta R.T. -0.01 min  
Lab File: BF093823.D  
Acq: 22 Mar 2017 8:13

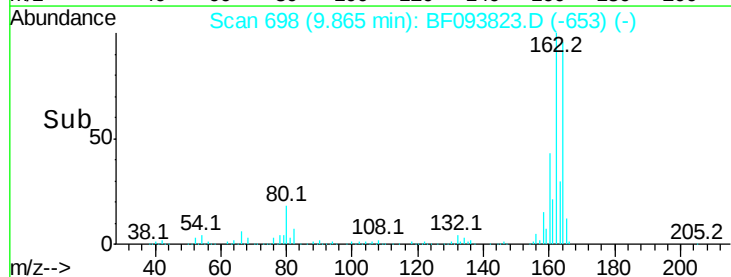
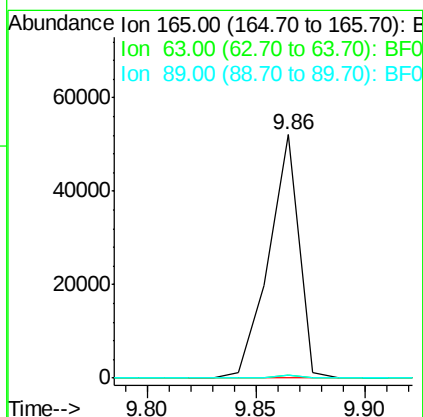
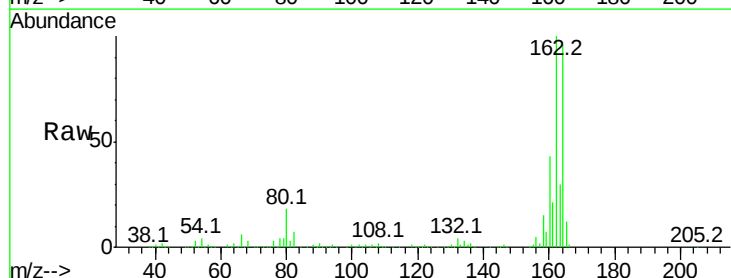
Instrument :  
BNA\_F  
ClientSampleId :

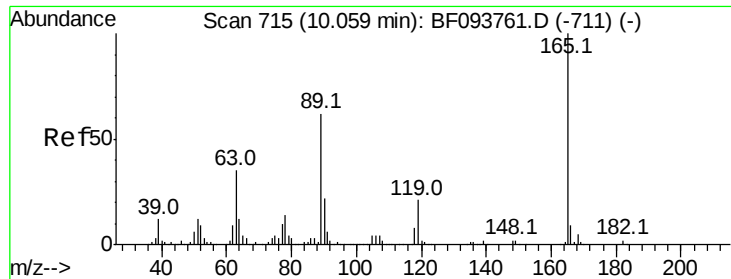
Tot Ion:163 Resp: 77791  
Ion Ratio Lower Upper  
163 100  
194 3.3 2.6 4.0  
164 9.6 8.4 12.6



#50  
2,6-Dinitrotoluene  
Concen: 8.10 ng  
RT: 9.86 min Scan# 698  
Delta R.T. 0.22 min  
Lab File: BF093823.D  
Acq: 22 Mar 2017 8:13

Tgt Ion:165 Resp: 51018  
Ion Ratio Lower Upper  
165 100  
63 1.3 34.3 51.5#  
89 1.4 37.1 55.7#

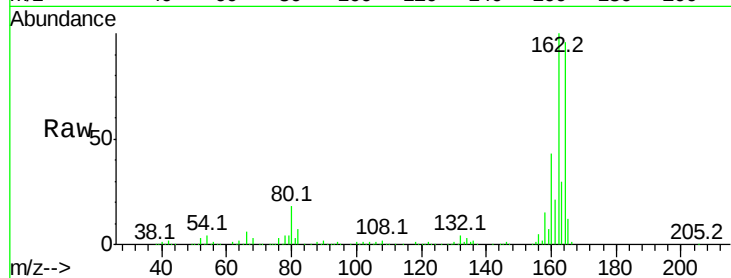




#56  
 2,4-Dinitrotoluene  
 Concen: 6.38 ng  
 RT: 9.86 min Scan# 698  
 Delta R.T. -0.18 min  
 Lab File: BF093823.D  
 Acq: 22 Mar 2017 8:13

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.3   | 25.4  | 38.0# |
| 89      | 1.4   | 46.4  | 69.6# |
| 182     | 0.0   | 1.8   | 2.6#  |

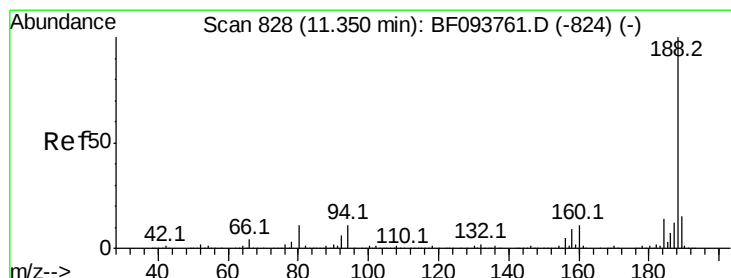
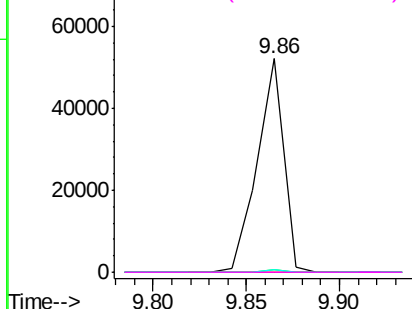
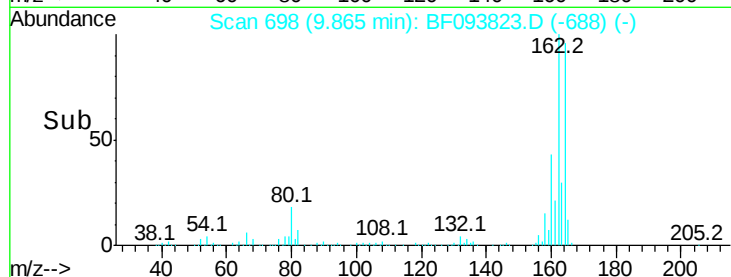


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

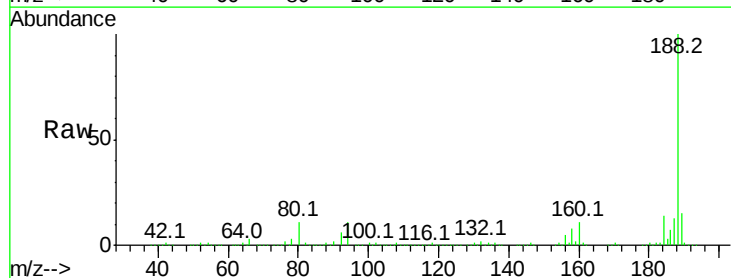
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.34 min Scan# 827  
 Delta R.T. 0.00 min  
 Lab File: BF093823.D  
 Acq: 22 Mar 2017 8:13

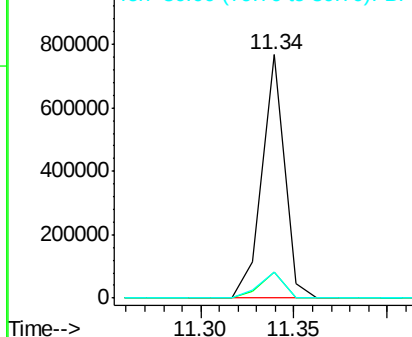
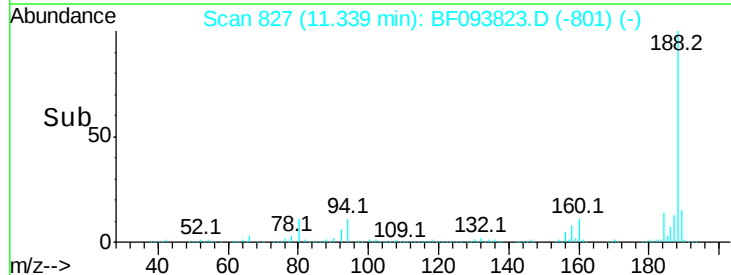
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.5  | 9.4   | 14.2  |
| 80      | 10.9  | 10.2  | 15.2  |

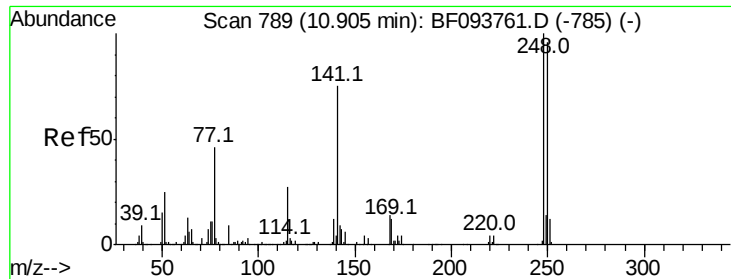


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

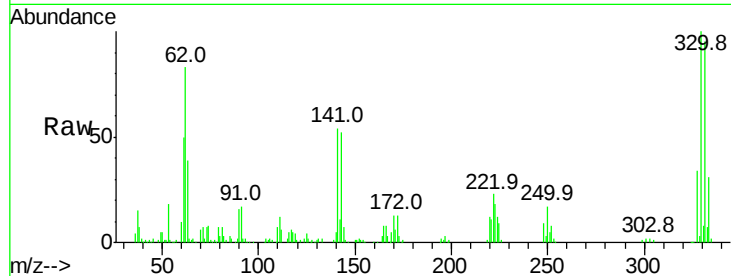




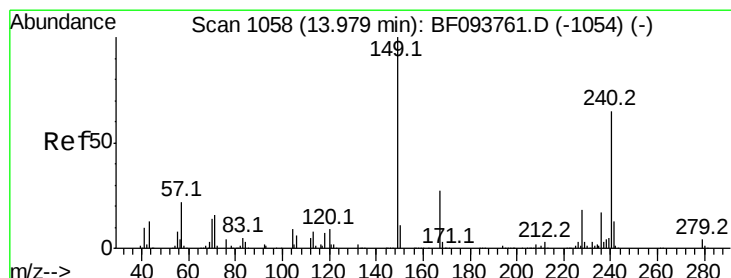
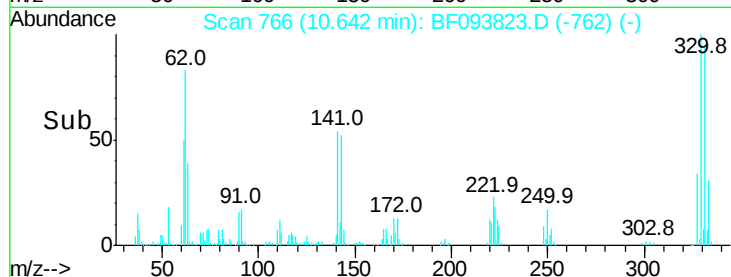
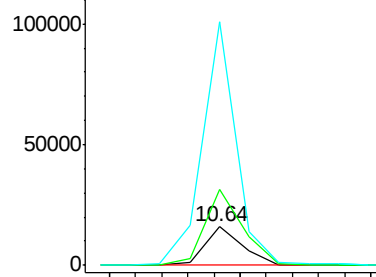
#66  
4-Bromophenyl-phenylether  
Concen: 2.61 ng  
RT: 10.64 min Scan# 766  
Delta R.T. -0.25 min  
Lab File: BF093823.D  
Acq: 22 Mar 2017 8:13

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:248 Resp: 16118  
Ion Ratio Lower Upper  
248 100  
250 196.2 76.8 115.2#  
141 629.3 68.6 103.0#

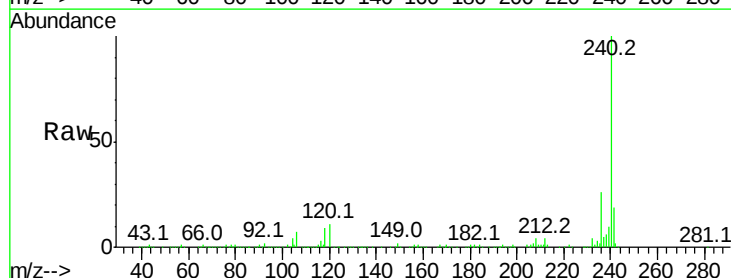


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

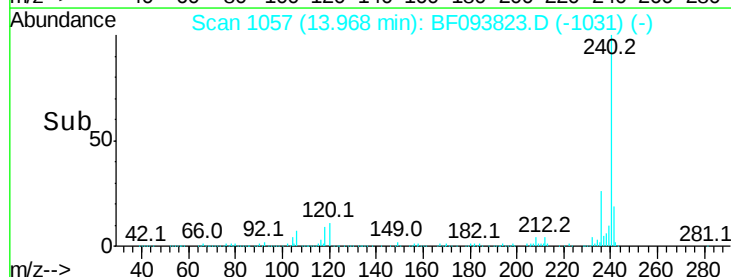
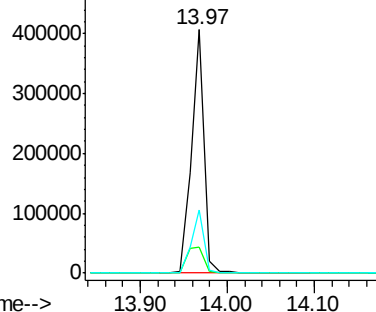


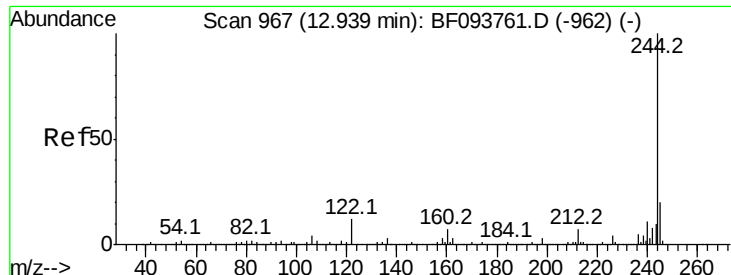
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.97 min Scan# 1057  
Delta R.T. 0.00 min  
Lab File: BF093823.D  
Acq: 22 Mar 2017 8:13

Tgt Ion:240 Resp: 413978  
Ion Ratio Lower Upper  
240 100  
120 10.5 5.8 8.8#  
236 26.2 20.5 30.7



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: 66.72 ng

RT: 12.93 min Scan# 966

Delta R.T. 0.00 min

Lab File: BF093823.D

Acq: 22 Mar 2017 8:13

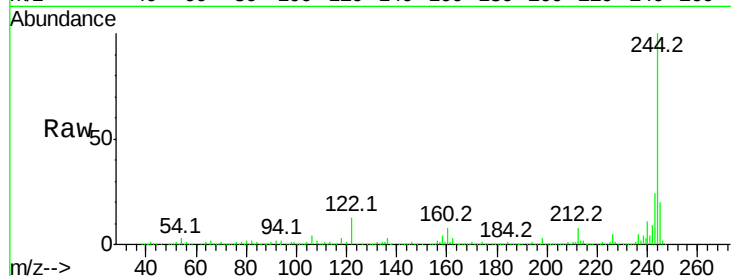
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:244 Resp: 1354667

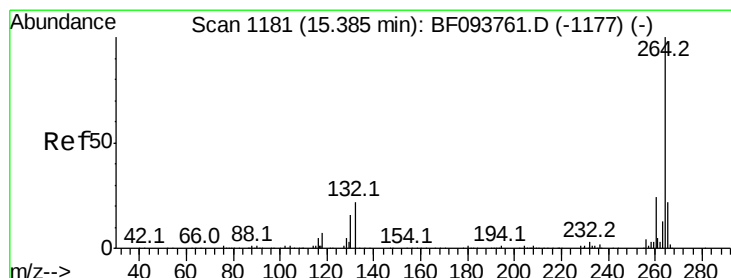
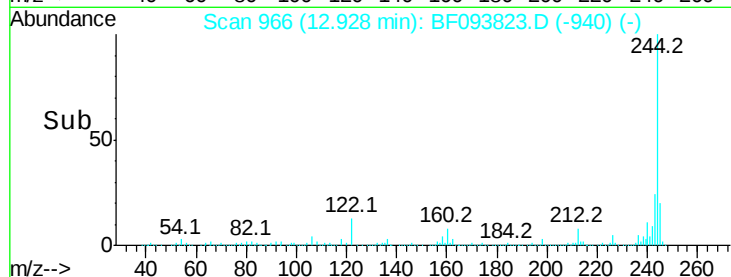
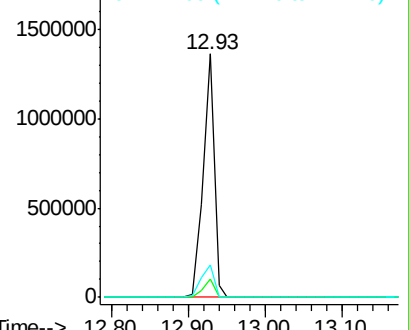
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 7.6   | 6.0   | 9.0   |
| 122 | 13.1  | 10.3  | 15.5  |



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: 15.37 min Scan# 1180

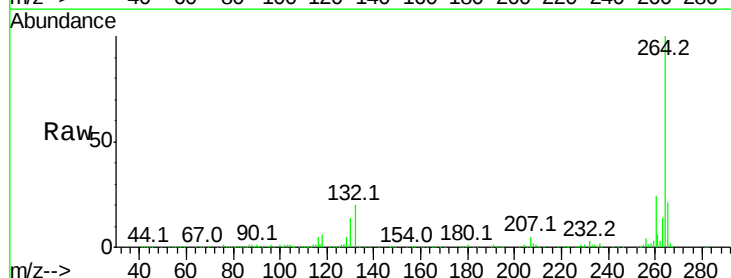
Delta R.T. 0.00 min

Lab File: BF093823.D

Acq: 22 Mar 2017 8:13

Tgt Ion:264 Resp: 353159

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.2  | 19.5  | 29.3  |
| 265 | 21.1  | 17.2  | 25.8  |



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

