

Data Path : Z:\HPCHEM1\BNA F\DATA\BF031317\  
 Data File : BF093610.D  
 Acq On : 13 Mar 2017 16:35  
 Operator : SJ/MA  
 Sample : I2174-20  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 D-67

Quant Time: Mar 14 01:32:43 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 13 15:05:08 2017  
 Response via : Initial Calibration

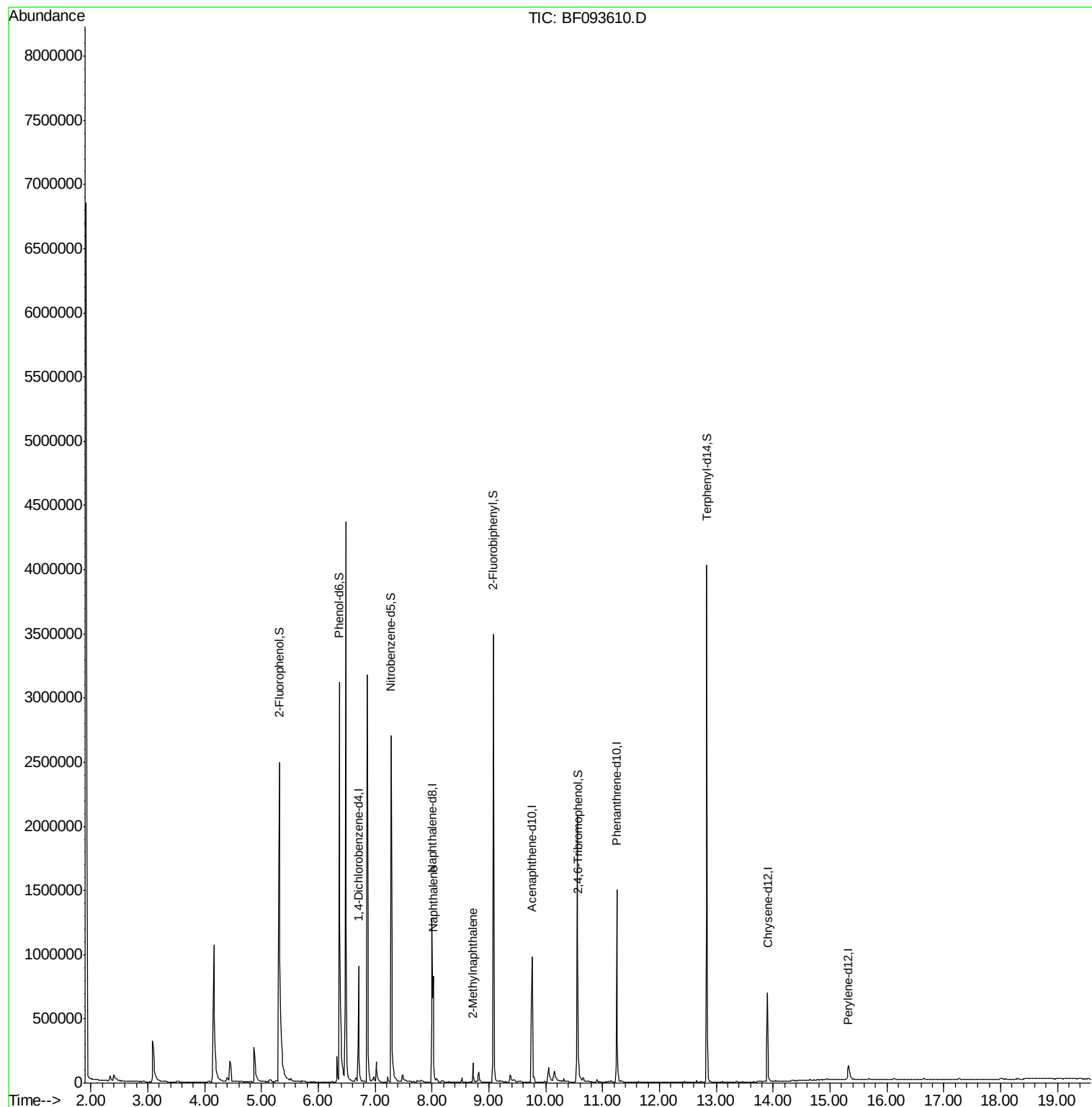
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.71  | 152  | 155524   | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.00  | 136  | 618617   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10        | 9.76  | 164  | 236946   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.25 | 188  | 545590   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.90 | 240  | 257607   | 20.00  | ng    | 0.01     |
| 86) Perylene-d12            | 15.32 | 264  | 15897    | 20.00  | ng    | 0.03     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.32  | 112  | 1250520  | 133.82 | ng    | 0.00     |
| 7) Phenol-d6                | 6.37  | 99   | 1403867  | 119.14 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.28  | 82   | 1024110  | 91.85  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.56 | 330  | 303278   | 196.46 | ng    | 0.01     |
| 44) 2-Fluorobiphenyl        | 9.08  | 172  | 1551494  | 121.79 | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.84 | 244  | 1267439  | 127.92 | ng    | 0.01     |
| Target Compounds            |       |      |          |        |       |          |
| 31) Naphthalene             | 8.02  | 128  | 508027   | 16.39  | ng    | 98       |
| 37) 2-Methylnaphthalene     | 8.72  | 142  | 45076    | 2.29   | ng    | 99       |

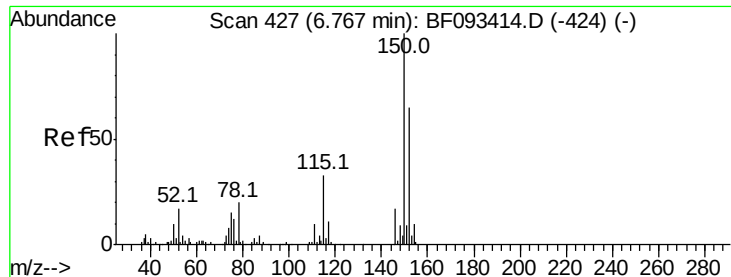
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF031317\  
Data File : BF093610.D  
Acq On : 13 Mar 2017 16:35  
Operator : SJ/MA  
Sample : I2174-20  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
D-67

Quant Time: Mar 14 01:32:43 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Mar 13 15:05:08 2017  
Response via : Initial Calibration



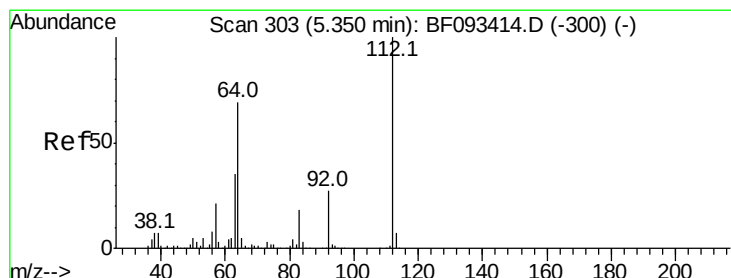
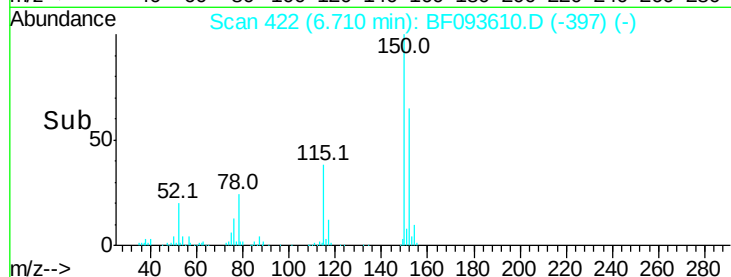
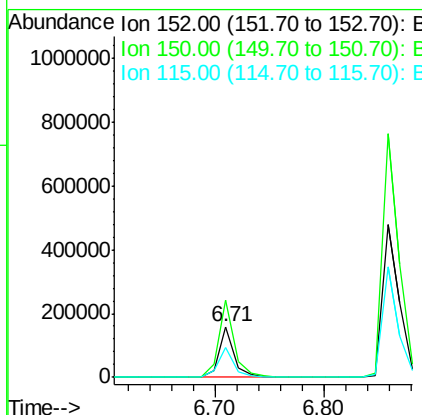
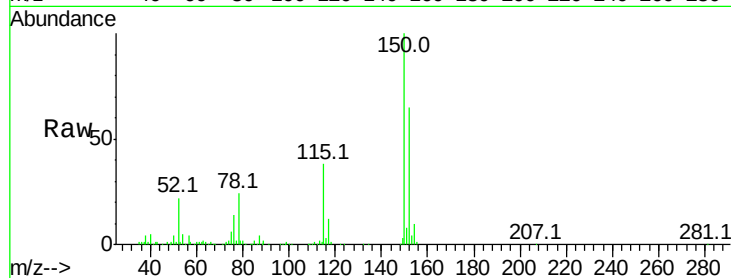


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.71 min Scan# 422  
Delta R.T. -0.01 min  
Lab File: BF093610.D  
Acq: 13 Mar 2017 16:35

Instrument :  
BNA\_F  
ClientSampleId :  
D-67

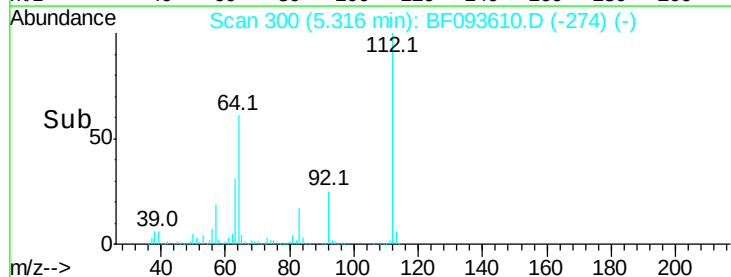
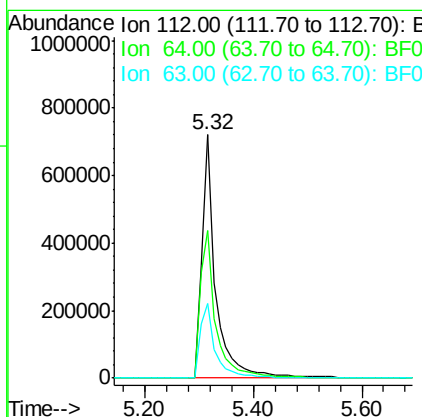
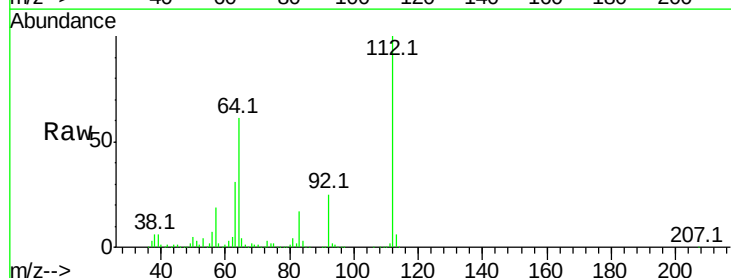
Tot Ion:152 Resp: 155524  
Ion Ratio Lower Upper  
152 100  
150 154.6 124.9 187.3  
115 58.3 46.0 69.0

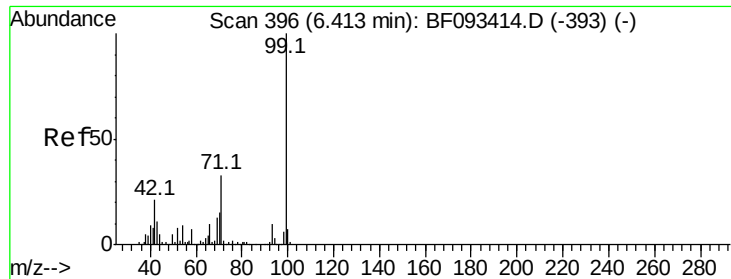


#5

2-Fluorophenol  
Concen: 133.82 ng  
RT: 5.32 min Scan# 300  
Delta R.T. 0.00 min  
Lab File: BF093610.D  
Acq: 13 Mar 2017 16:35

Tgt Ion:112 Resp: 1250520  
Ion Ratio Lower Upper  
112 100  
64 60.6 46.1 69.1  
63 30.8 23.8 35.6





#7

Phenol-d6

Concen: 119.14 ng

RT: 6.37 min Scan# 392

Delta R.T. -0.01 min

Lab File: BF093610.D

Acq: 13 Mar 2017 16:35

Instrument :

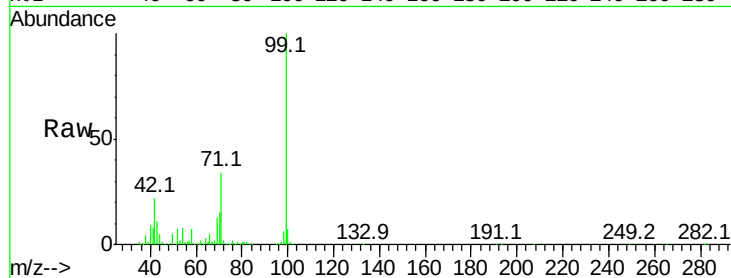
BNA\_F

ClientSampleId :

D-67

Tot Ion: 99 Resp: 1403867

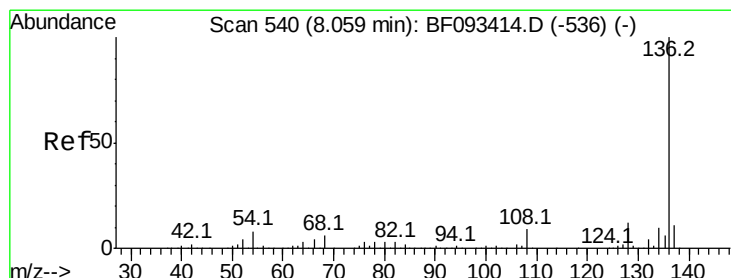
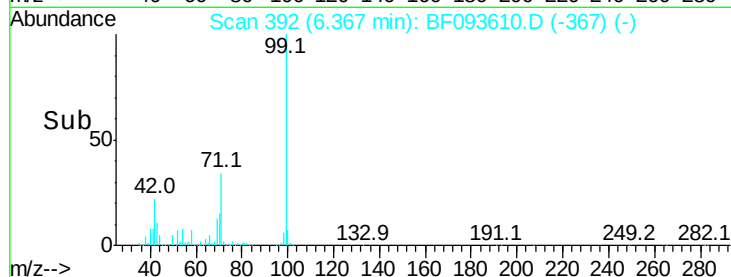
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 21.8  | 15.6  | 23.4  |
| 71  | 33.6  | 27.5  | 41.3  |



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: 8.00 min Scan# 535

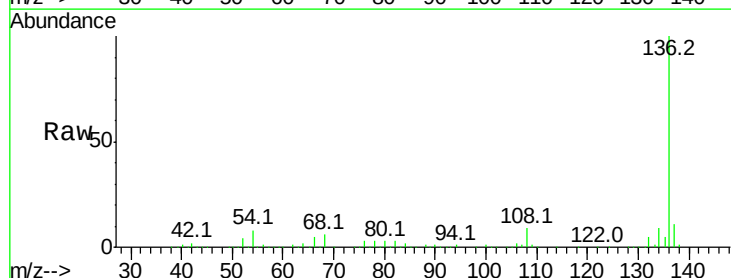
Delta R.T. -0.01 min

Lab File: BF093610.D

Acq: 13 Mar 2017 16:35

Tgt Ion: 136 Resp: 618617

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.9  | 8.4   | 12.6  |
| 54  | 8.3   | 4.5   | 6.7#  |
| 68  | 6.0   | 3.6   | 5.4#  |

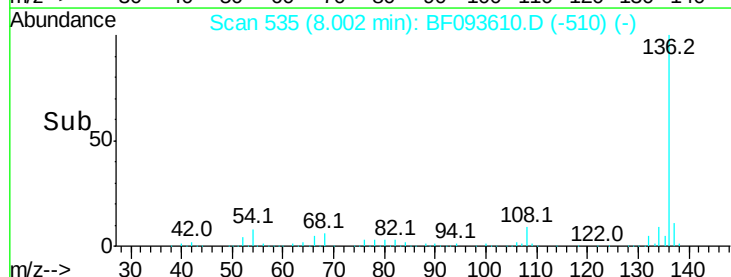


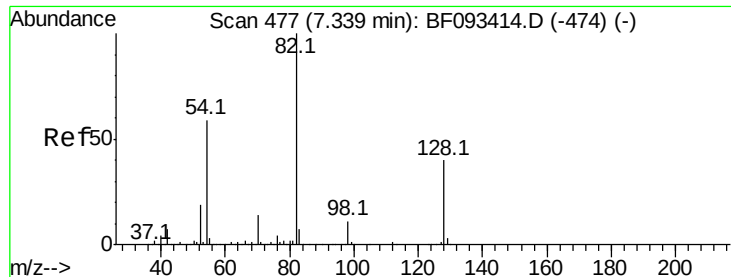
Abundance Ion 136.00 (135.70 to 136.70): E

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

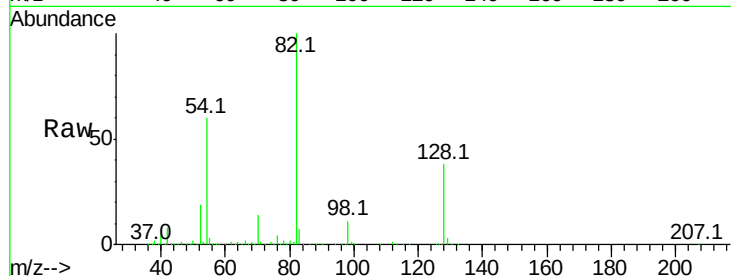




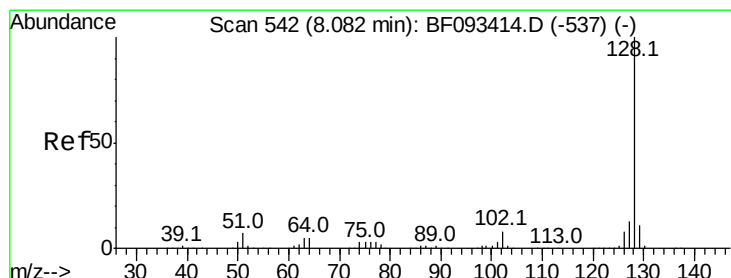
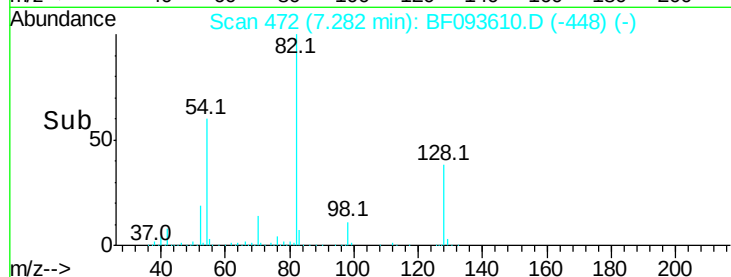
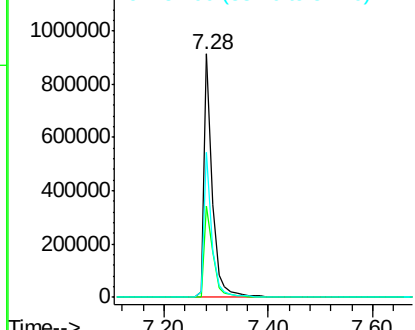
#23  
 Nitrobenzene-d5  
 Concen: 91.85 ng  
 RT: 7.28 min Scan# 472  
 Delta R.T. -0.02 min  
 Lab File: BF093610.D  
 Acq: 13 Mar 2017 16:35

Instrument :  
 BNA\_F  
 ClientSampleId :  
 D-67

Tot Ion: 82 Resp: 1024110  
 Ion Ratio Lower Upper  
 82 100  
 128 37.7 34.6 52.0  
 54 59.7 39.5 59.3#

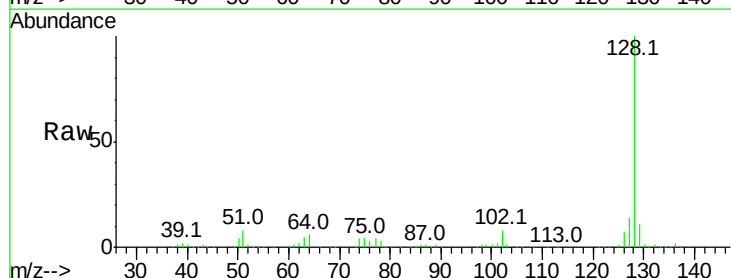


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BF0

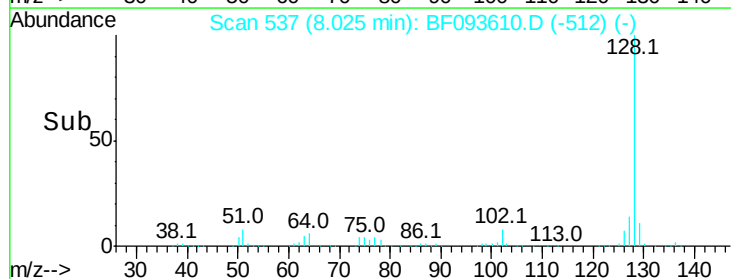
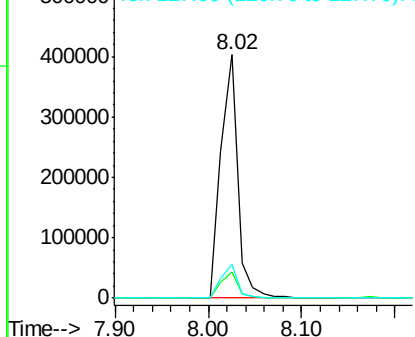


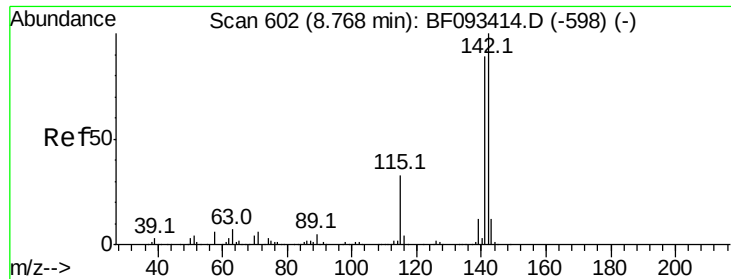
#31  
 Naphthalene  
 Concen: 16.39 ng  
 RT: 8.02 min Scan# 537  
 Delta R.T. -0.01 min  
 Lab File: BF093610.D  
 Acq: 13 Mar 2017 16:35

Tgt Ion: 128 Resp: 508027  
 Ion Ratio Lower Upper  
 128 100  
 129 10.7 9.5 14.3  
 127 13.6 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E  
 Ion 129.00 (128.70 to 129.70): E  
 Ion 127.00 (126.70 to 127.70): E

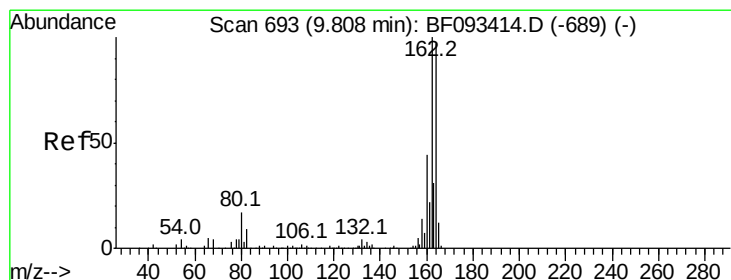
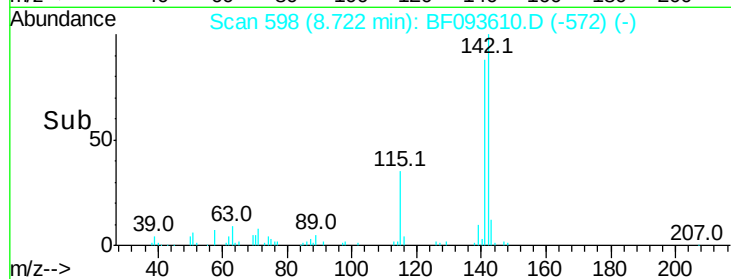
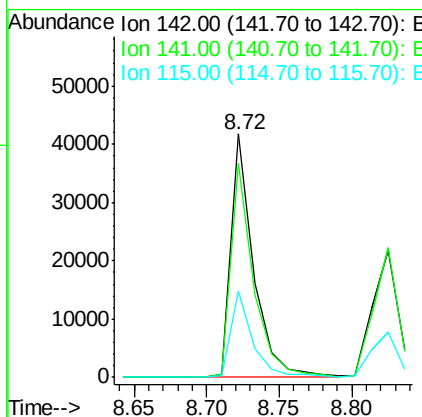
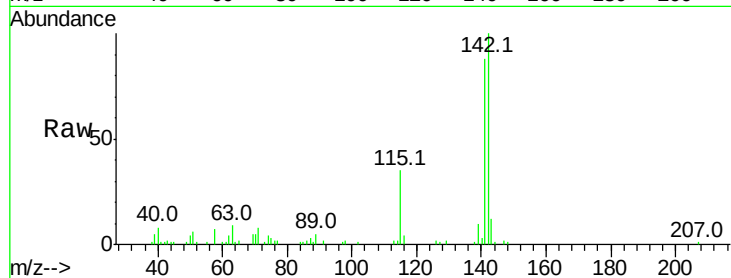




#37  
2-Methylnaphthalene  
Concen: 2.29 ng  
RT: 8.72 min Scan# 598  
Delta R.T. 0.00 min  
Lab File: BF093610.D  
Acq: 13 Mar 2017 16:35

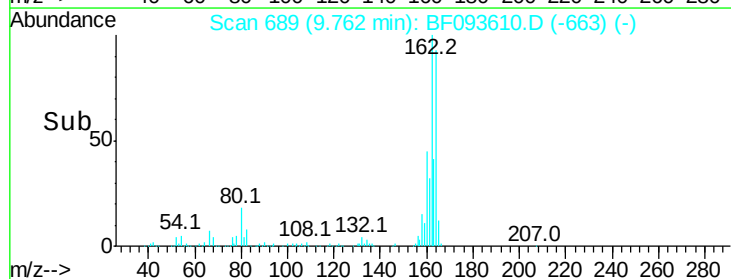
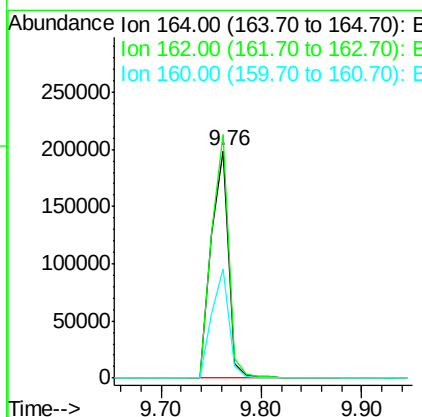
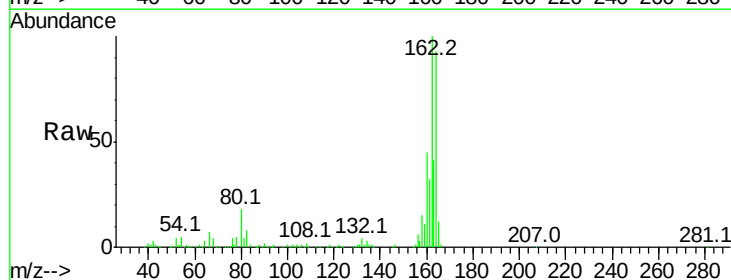
Instrument :  
BNA\_F  
ClientSampleId :  
D-67

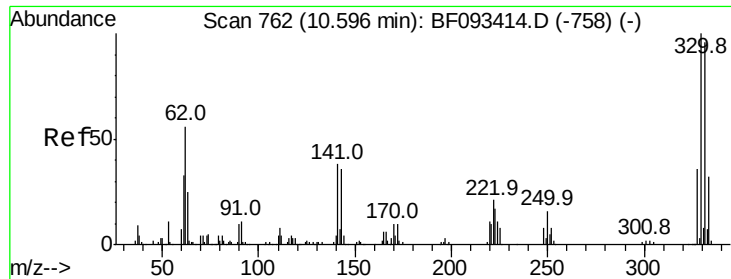
Tot Ion:142 Resp: 45076  
Ion Ratio Lower Upper  
142 100  
141 88.1 71.0 106.6  
115 35.2 28.3 42.5



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.76 min Scan# 689  
Delta R.T. 0.00 min  
Lab File: BF093610.D  
Acq: 13 Mar 2017 16:35

Tgt Ion:164 Resp: 236946  
Ion Ratio Lower Upper  
164 100  
162 107.3 80.2 120.2  
160 48.3 36.9 55.3

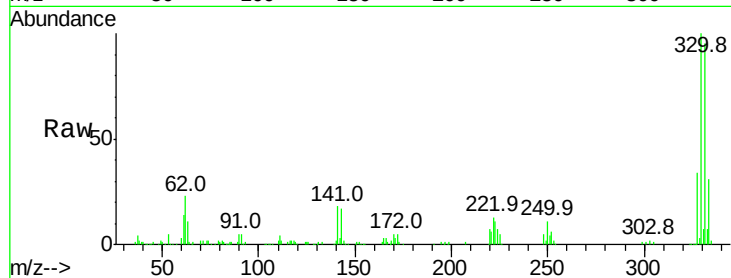




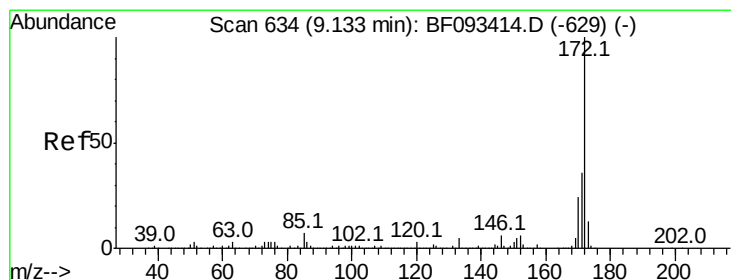
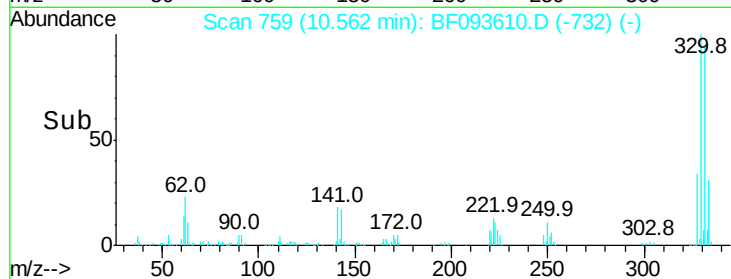
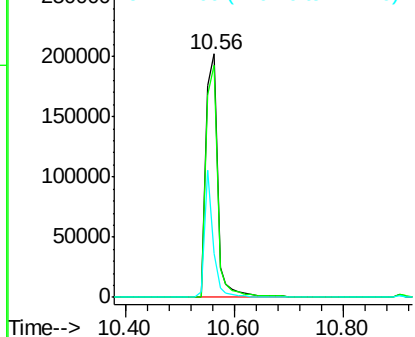
#41  
 2,4,6-Tribromophenol  
 Concen: 196.46 ng  
 RT: 10.56 min Scan# 759  
 Delta R.T. 0.01 min  
 Lab File: BF093610.D  
 Acq: 13 Mar 2017 16:35

Instrument :  
 BNA\_F  
 ClientSampled :  
 D-67

Tot Ion:330 Resp: 303278  
 Ion Ratio Lower Upper  
 330 100  
 332 95.3 77.4 116.2  
 141 38.4 34.1 51.1

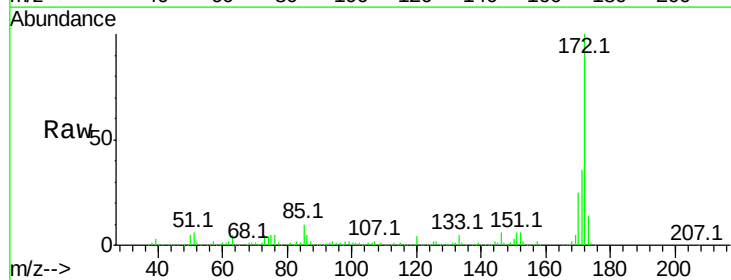


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

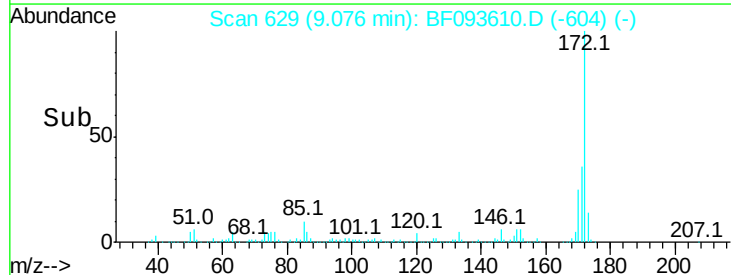
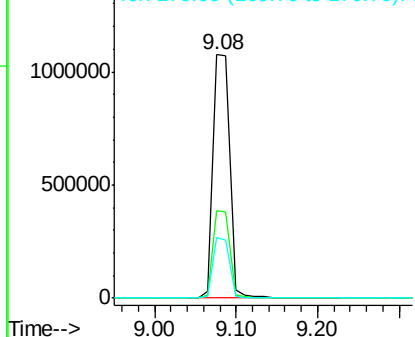


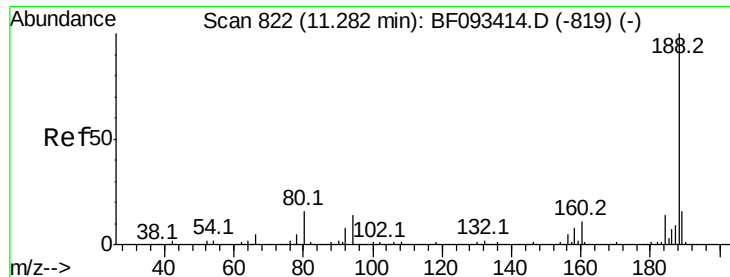
#44  
 2-Fluorobiphenyl  
 Concen: 121.79 ng  
 RT: 9.08 min Scan# 629  
 Delta R.T. -0.01 min  
 Lab File: BF093610.D  
 Acq: 13 Mar 2017 16:35

Tgt Ion:172 Resp: 1551494  
 Ion Ratio Lower Upper  
 172 100  
 171 36.1 29.4 44.0  
 170 24.7 20.2 30.4



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

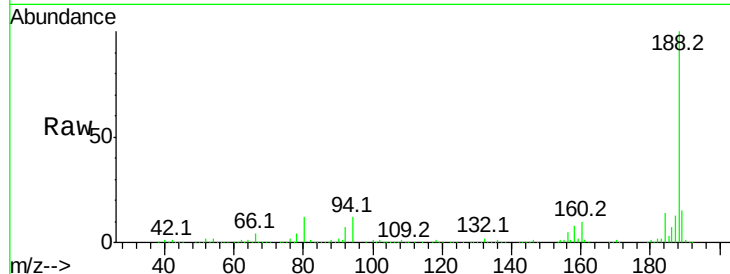




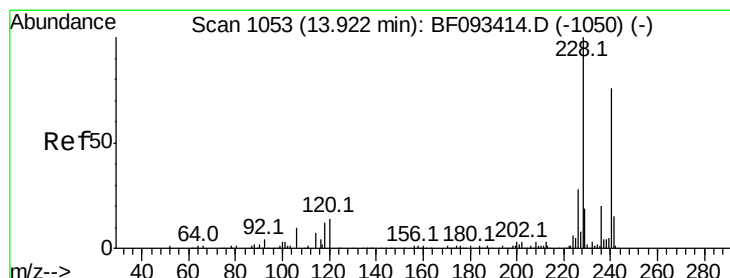
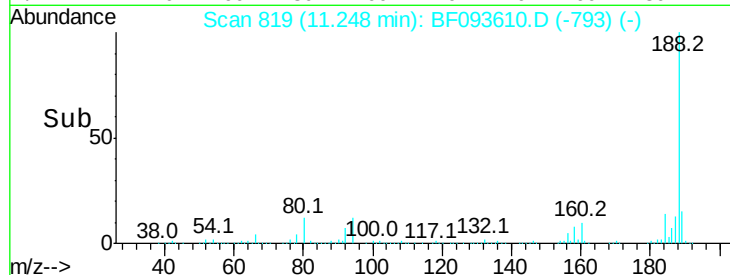
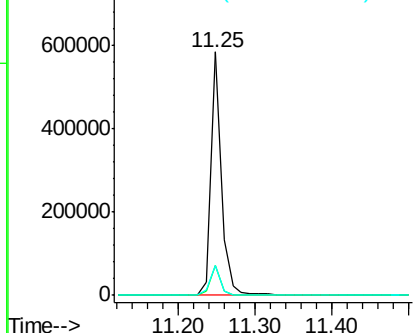
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.25 min Scan# 819  
Delta R.T. 0.00 min  
Lab File: BF093610.D  
Acq: 13 Mar 2017 16:35

Instrument :  
BNA\_F  
ClientSampleId :  
D-67

Tot Ion:188 Resp: 545590  
Ion Ratio Lower Upper  
188 100  
94 12.1 10.0 15.0  
80 12.4 11.2 16.8

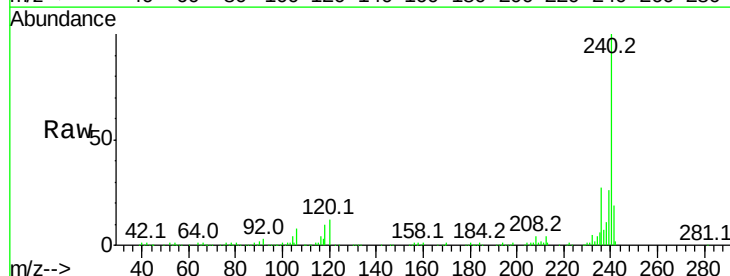


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

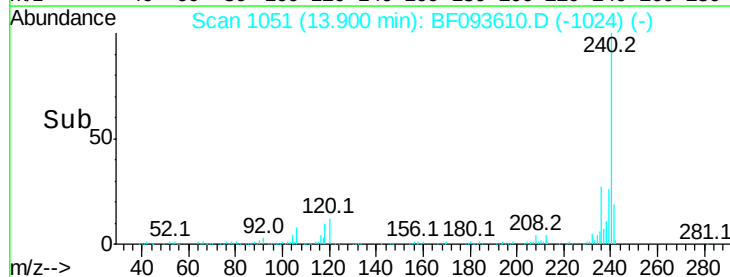
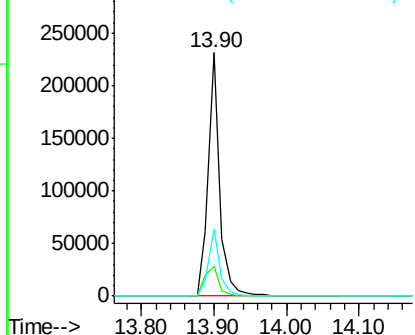


#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.90 min Scan# 1051  
Delta R.T. 0.01 min  
Lab File: BF093610.D  
Acq: 13 Mar 2017 16:35

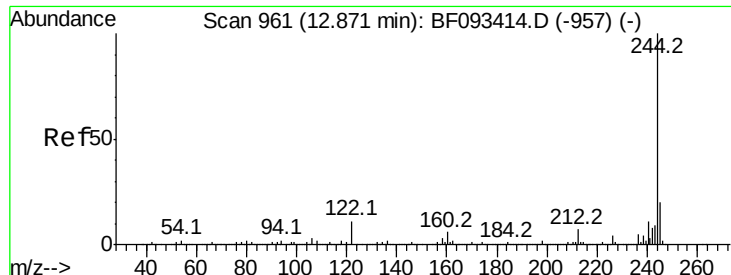
Tgt Ion:240 Resp: 257607  
Ion Ratio Lower Upper  
240 100  
120 12.1 12.9 19.3#  
236 27.3 20.9 31.3



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: 127.92 ng

RT: 12.84 min Scan# 958

Delta R.T. 0.01 min

Lab File: BF093610.D

Acq: 13 Mar 2017 16:35

Instrument :

BNA\_F

ClientSampleId :

D-67

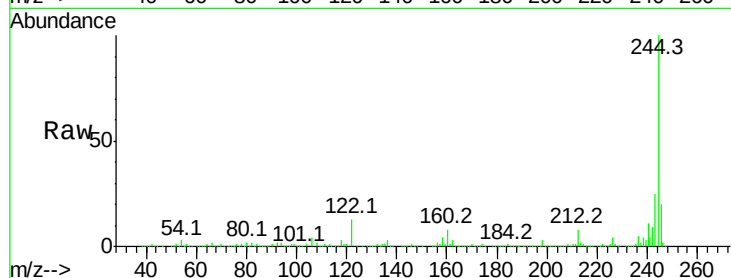
Tot Ion:244 Resp: 1267439

Ion Ratio Lower Upper

244 100

212 7.7 6.2 9.2

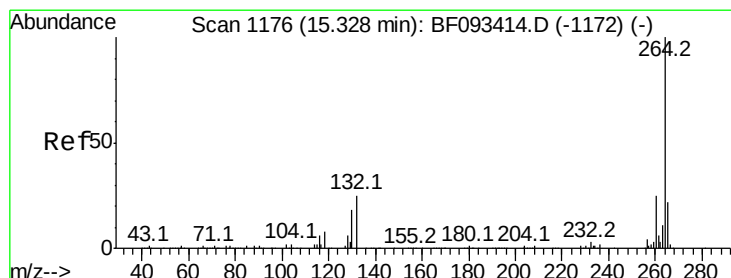
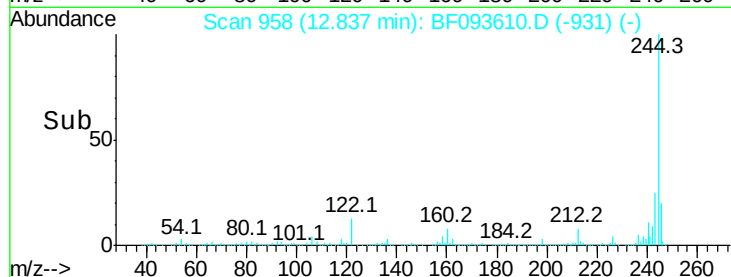
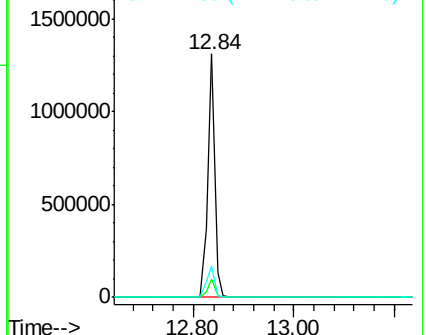
122 12.9 11.4 17.2



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: 15.32 min Scan# 1175

Delta R.T. 0.03 min

Lab File: BF093610.D

Acq: 13 Mar 2017 16:35

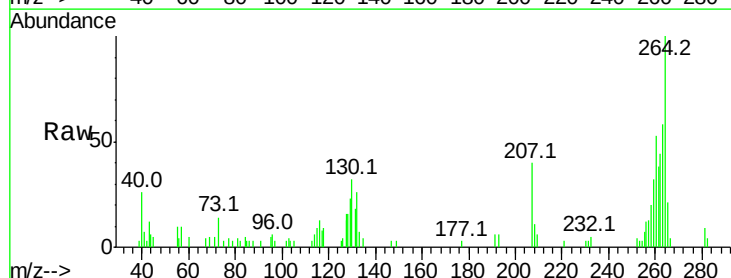
Tgt Ion:264 Resp: 15897

Ion Ratio Lower Upper

264 100

260 52.5 19.2 28.8#

265 21.0 17.4 26.0



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

