

Data Path : Z:\HPCHEM1\BNA F\DATA\BF030317\  
 Data File : BF093387.D  
 Acq On : 4 Mar 2017 6:11  
 Operator : SJ/MA  
 Sample : PB97311TB  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB97311TB

Quant Time: Mar 06 00:03:23 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sun Mar 05 23:55:48 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.78  | 152  | 188536   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.08  | 136  | 732236   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.82  | 164  | 333130   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.30 | 188  | 536043   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12            | 13.94 | 240  | 354525   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12            | 15.36 | 264  | 314943   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.39  | 112  | 1591923  | 144.86 | ng    | 0.02     |
| 7) Phenol-d6                | 6.43  | 99   | 1939128  | 137.14 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.36  | 82   | 1183132  | 89.98  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.61 | 330  | 282885   | 117.41 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.15  | 172  | 1853410  | 100.79 | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.89 | 244  | 1187562  | 78.71  | ng    | 0.00     |

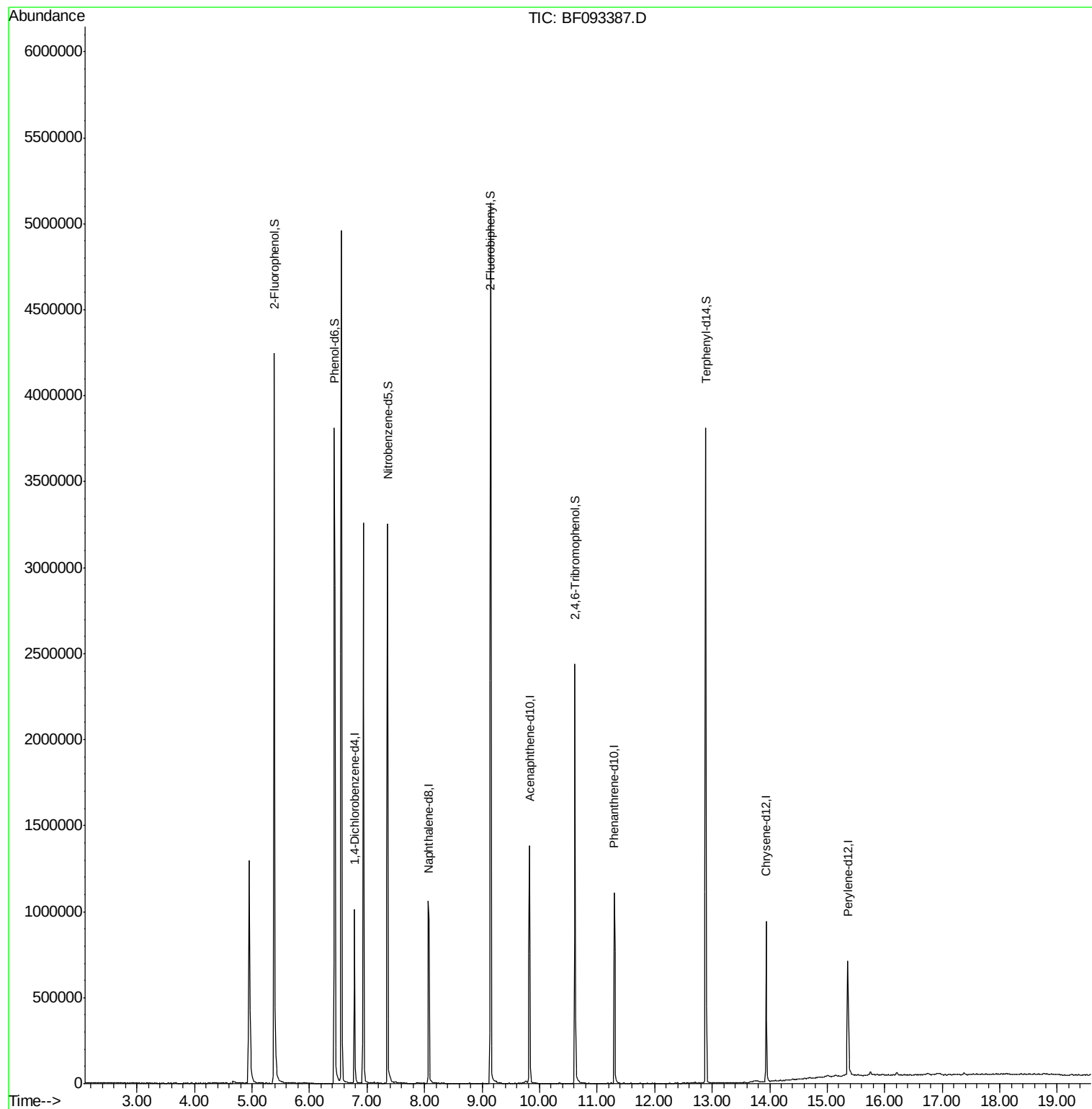
Target Compounds Qvalue

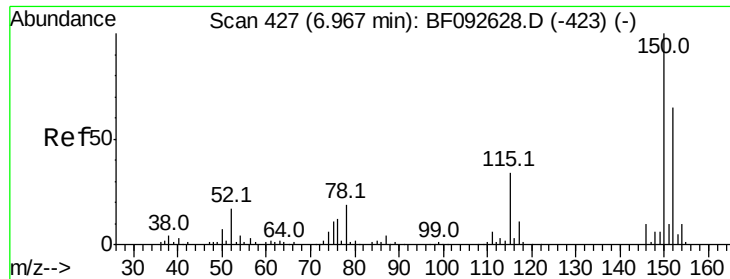
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF030317\  
Data File : BF093387.D  
Acq On : 4 Mar 2017 6:11  
Operator : SJ/MA  
Sample : PB97311TB  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PB97311TB

Quant Time: Mar 06 00:03:23 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Mar 05 23:55:48 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.78 min Scan# 411

Delta R.T. 0.00 min

Lab File: BF093387.D

Acq: 4 Mar 2017 6:11

Instrument :

BNA\_F

ClientSampleId :

PB97311TB

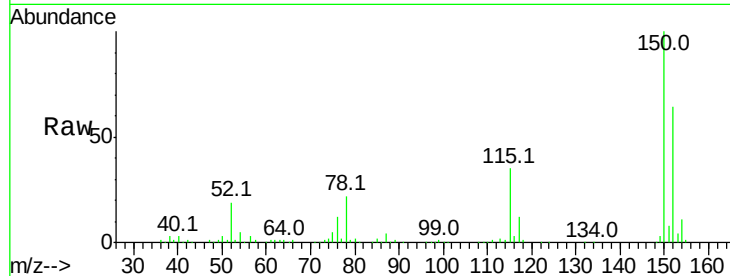
Tot Ion:152 Resp: 188536

Ion Ratio Lower Upper

152 100

150 156.1 124.9 187.3

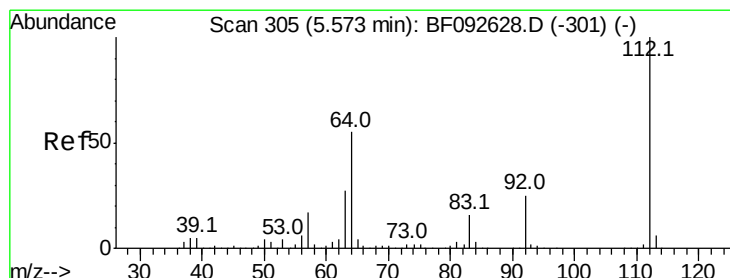
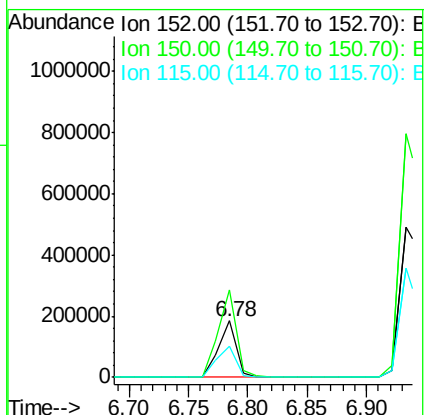
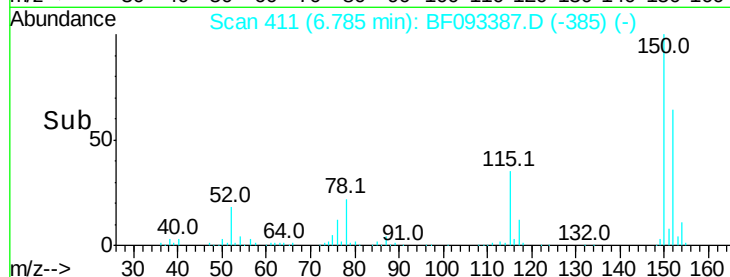
115 55.3 46.0 69.0



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: 144.86 ng

RT: 5.39 min Scan# 289

Delta R.T. 0.02 min

Lab File: BF093387.D

Acq: 4 Mar 2017 6:11

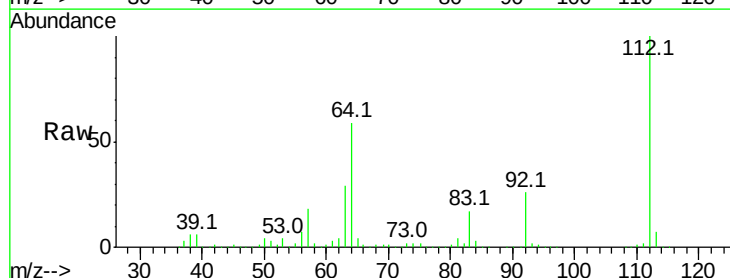
Tgt Ion:112 Resp: 1591923

Ion Ratio Lower Upper

112 100

64 58.6 46.1 69.1

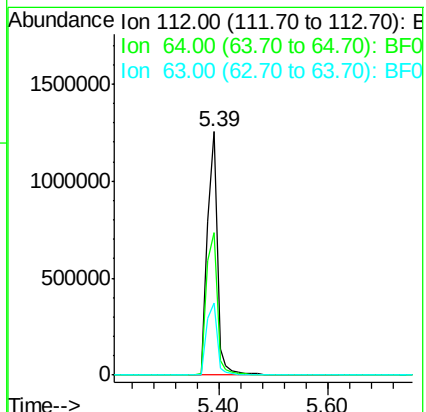
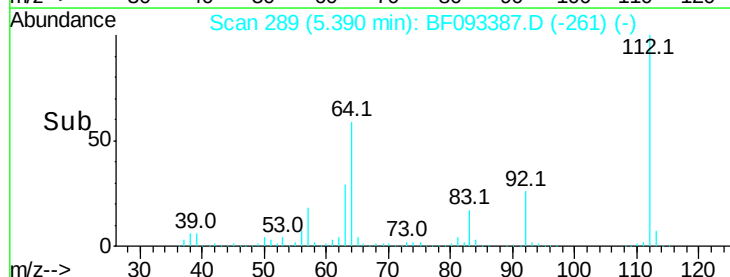
63 29.4 23.8 35.6

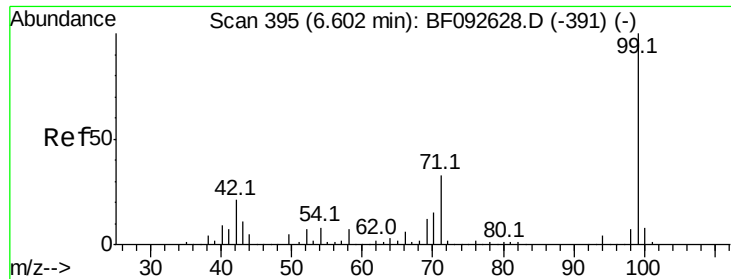


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 137.14 ng

RT: 6.43 min Scan# 380

Delta R.T. -0.01 min

Lab File: BF093387.D

Acq: 4 Mar 2017 6:11

Instrument :

BNA\_F

ClientSampleId :

PB97311TB

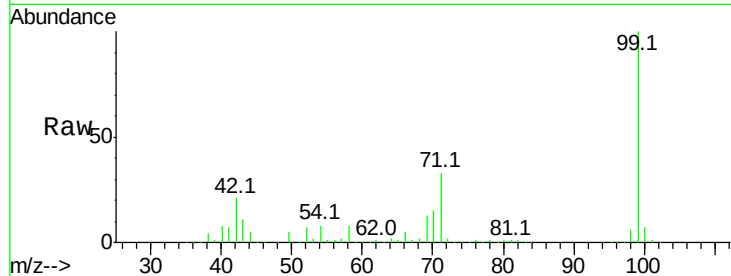
Tot Ion: 99 Resp: 1939128

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 21.3  | 15.6  | 23.4  |
| 71  | 33.2  | 27.5  | 41.3  |

99 100

42 21.3 15.6 23.4

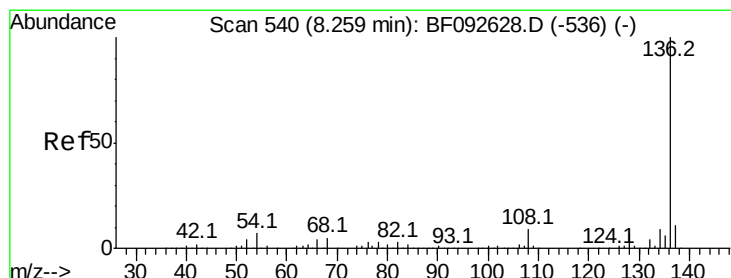
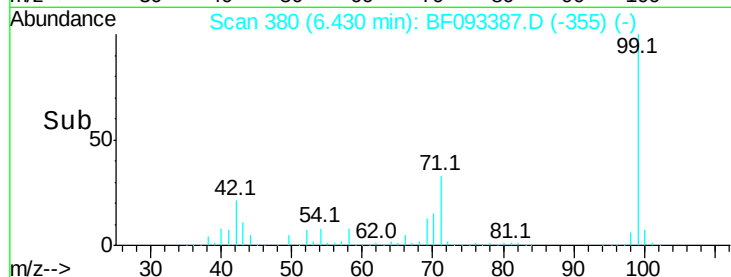
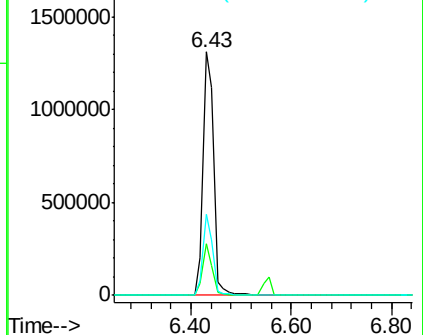
71 33.2 27.5 41.3



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: 8.08 min Scan# 524

Delta R.T. 0.00 min

Lab File: BF093387.D

Acq: 4 Mar 2017 6:11

Tgt Ion: 136 Resp: 732236

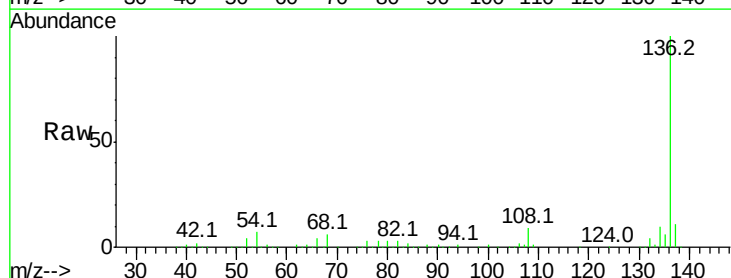
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.6  | 8.4   | 12.6  |
| 54  | 7.5   | 4.5   | 6.7#  |
| 68  | 5.6   | 3.6   | 5.4#  |

136 100

137 10.6 8.4 12.6

54 7.5 4.5 6.7#

68 5.6 3.6 5.4#

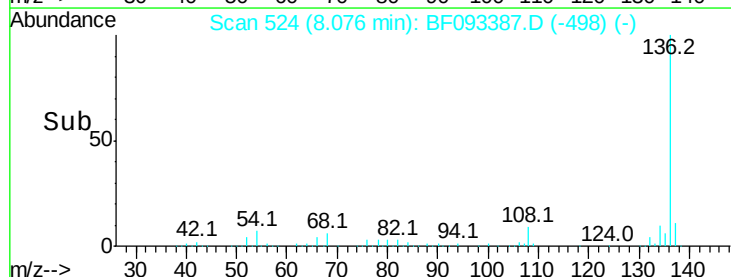
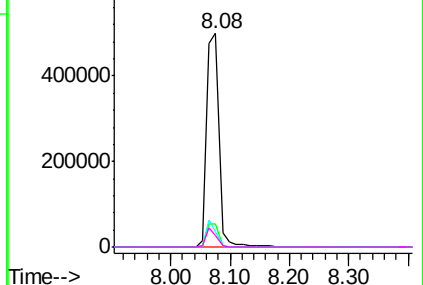


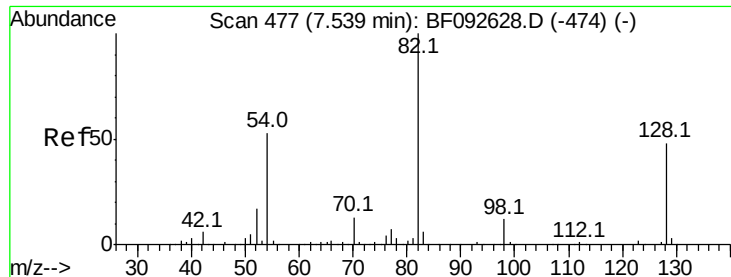
Abundance Ion 136.00 (135.70 to 136.70): E

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

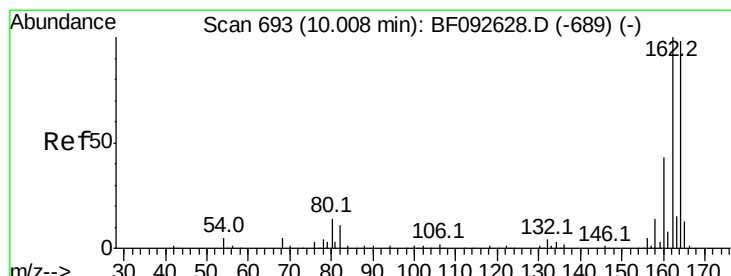
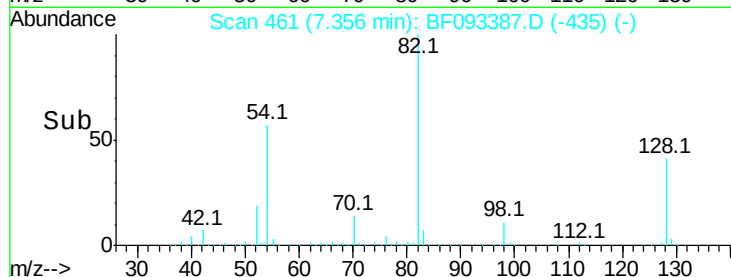
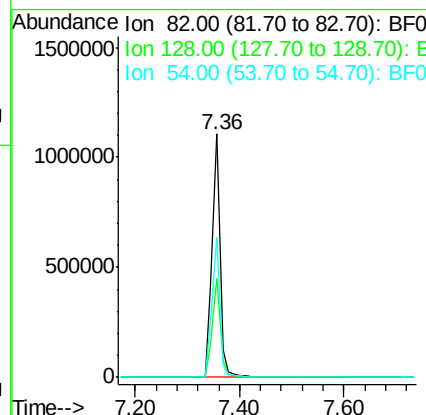
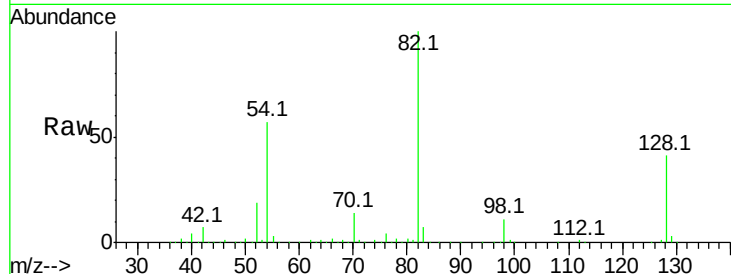




#23  
 Nitrobenzene-d5  
 Concen: 89.98 ng  
 RT: 7.36 min Scan# 461  
 Delta R.T. 0.00 min  
 Lab File: BF093387.D  
 Acq: 4 Mar 2017 6:11

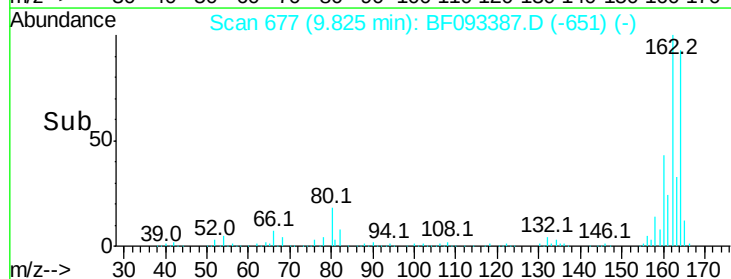
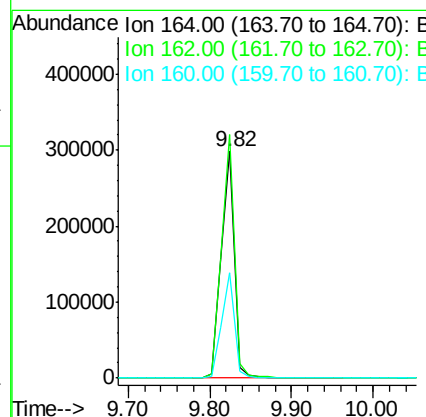
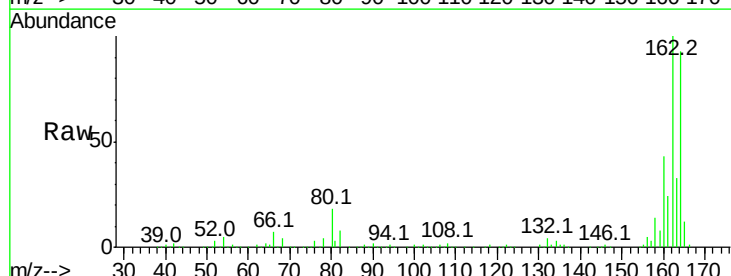
Instrument :  
 BNA\_F  
 ClientSampleID :  
 PB97311TB

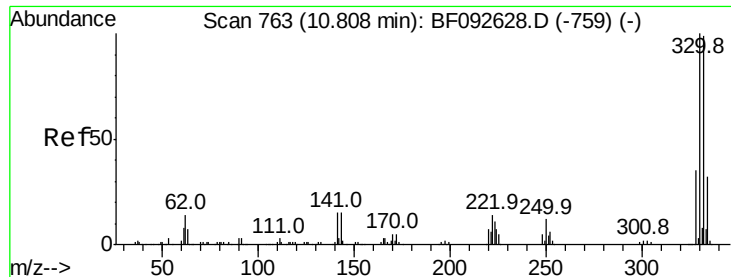
Tot Ion: 82 Resp: 1183132  
 Ion Ratio Lower Upper  
 82 100  
 128 40.6 34.6 52.0  
 54 57.4 39.5 59.3



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.82 min Scan# 677  
 Delta R.T. 0.00 min  
 Lab File: BF093387.D  
 Acq: 4 Mar 2017 6:11

Tgt Ion: 164 Resp: 333130  
 Ion Ratio Lower Upper  
 164 100  
 162 107.3 80.2 120.2  
 160 46.3 36.9 55.3

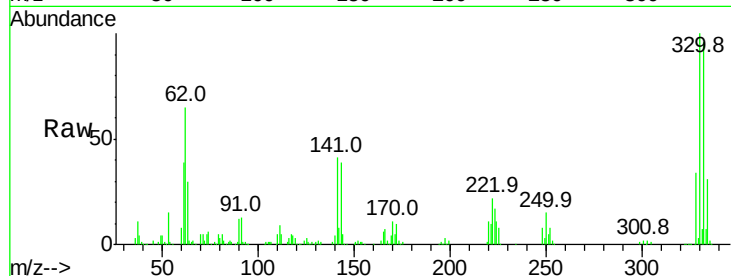




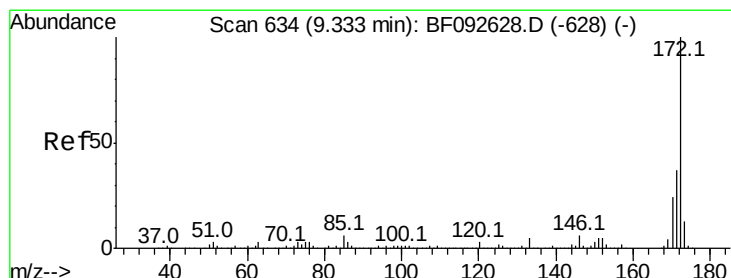
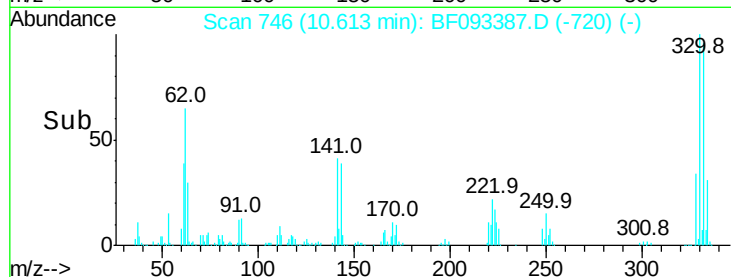
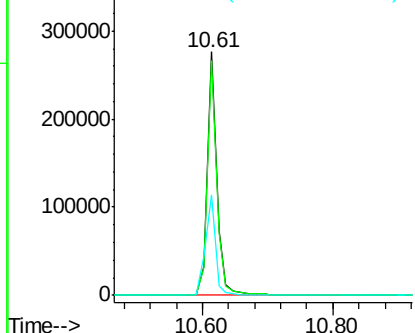
#41  
 2,4,6-Tribromophenol  
 Concen: 117.41 ng  
 RT: 10.61 min Scan# 746  
 Delta R.T. 0.00 min  
 Lab File: BF093387.D  
 Acq: 4 Mar 2017 6:11

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB97311TB

Tot Ion:330 Resp: 282885  
 Ion Ratio Lower Upper  
 330 100  
 332 96.2 77.4 116.2  
 141 43.1 34.1 51.1

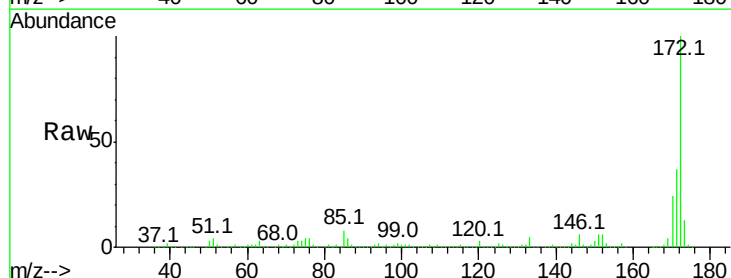


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

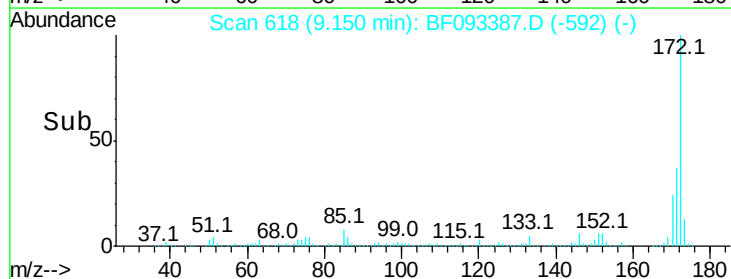
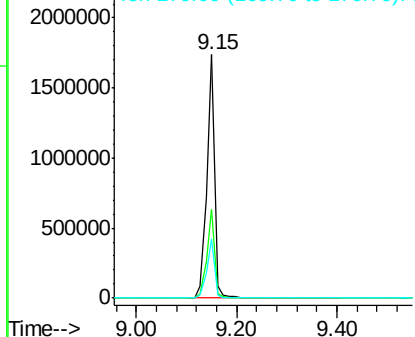


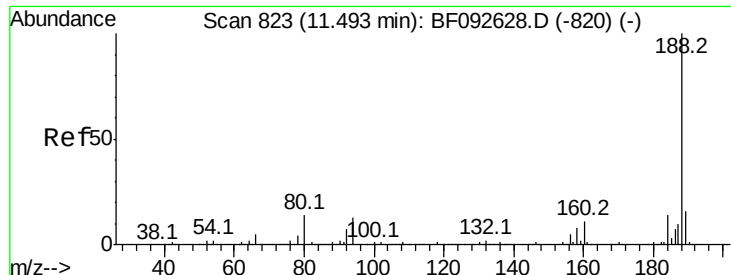
#44  
 2-Fluorobiphenyl  
 Concen: 100.79 ng  
 RT: 9.15 min Scan# 618  
 Delta R.T. 0.00 min  
 Lab File: BF093387.D  
 Acq: 4 Mar 2017 6:11

Tgt Ion:172 Resp: 1853410  
 Ion Ratio Lower Upper  
 172 100  
 171 36.6 29.4 44.0  
 170 24.4 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

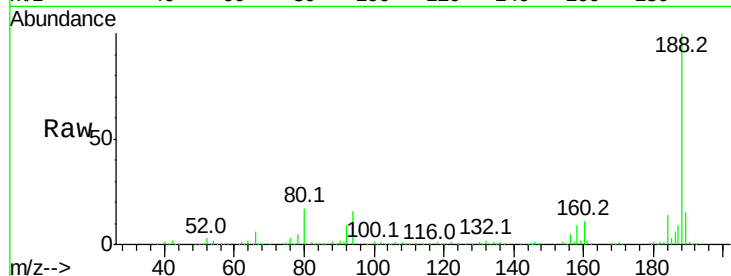




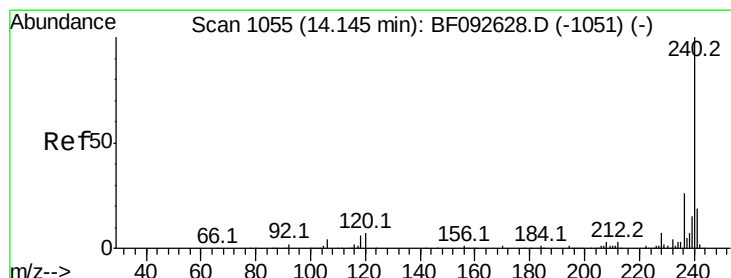
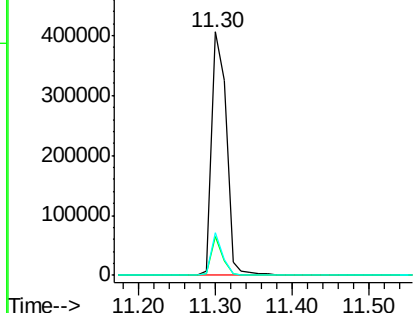
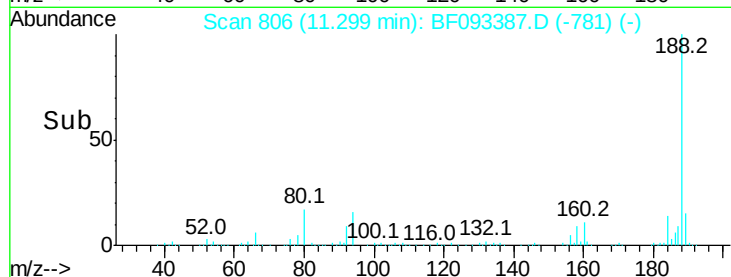
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.30 min Scan# 806  
 Delta R.T. -0.01 min  
 Lab File: BF093387.D  
 Acq: 4 Mar 2017 6:11

Instrument :  
 BNA\_F  
 ClientSampled :  
 PB97311TB

Tot Ion:188 Resp: 536043  
 Ion Ratio Lower Upper  
 188 100  
 94 16.2 10.0 15.0#  
 80 17.4 11.2 16.8#

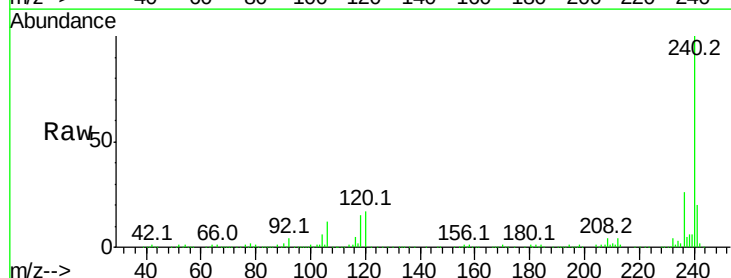


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

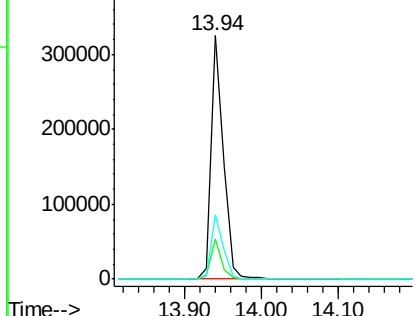
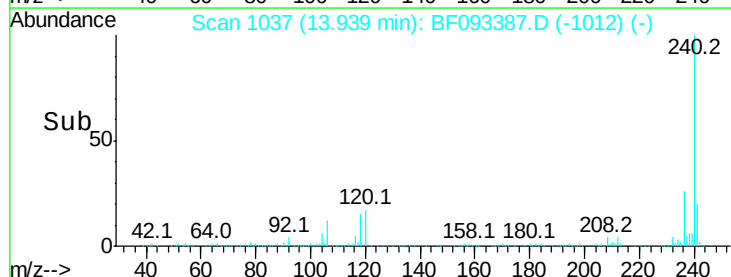


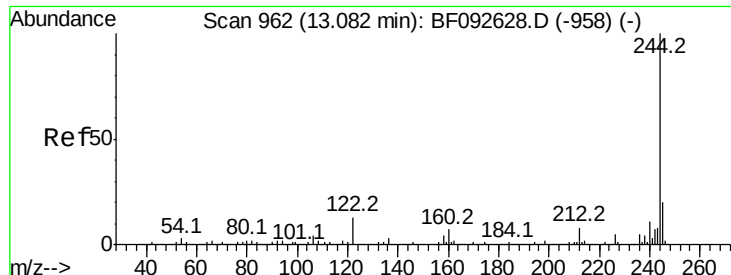
#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 13.94 min Scan# 1037  
 Delta R.T. -0.01 min  
 Lab File: BF093387.D  
 Acq: 4 Mar 2017 6:11

Tgt Ion:240 Resp: 354525  
 Ion Ratio Lower Upper  
 240 100  
 120 16.6 12.9 19.3  
 236 26.4 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

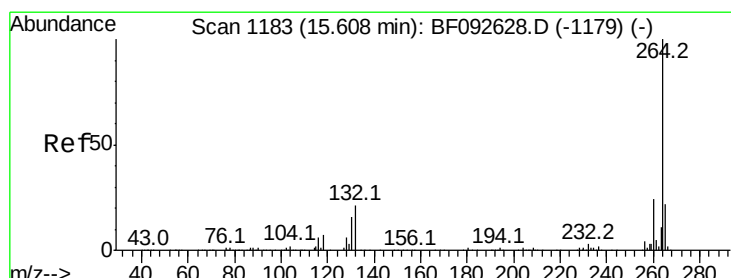
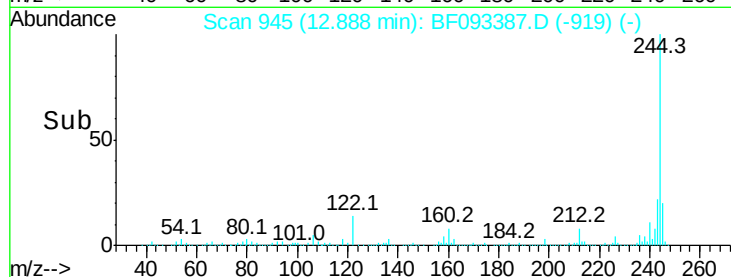
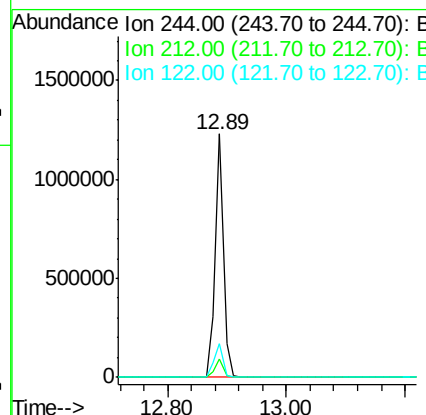
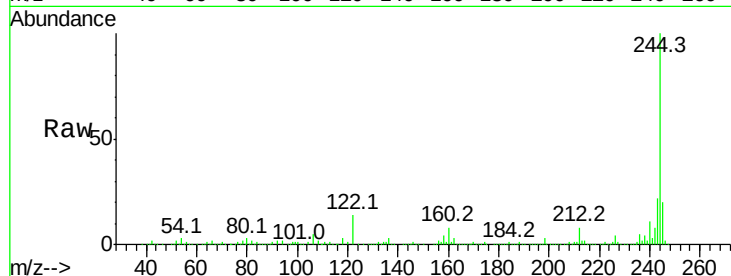




#78  
 Terphenyl-d14  
 Concen: 78.71 ng  
 RT: 12.89 min Scan# 945  
 Delta R.T. -0.00 min  
 Lab File: BF093387.D  
 Acq: 4 Mar 2017 6:11

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB97311TB

Tot Ion:244 Resp: 1187562  
 Ion Ratio Lower Upper  
 244 100  
 212 7.8 6.2 9.2  
 122 13.9 11.4 17.2



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.36 min Scan# 1161  
 Delta R.T. -0.00 min  
 Lab File: BF093387.D  
 Acq: 4 Mar 2017 6:11

Tgt Ion:264 Resp: 314943  
 Ion Ratio Lower Upper  
 264 100  
 260 23.7 19.2 28.8  
 265 21.4 17.4 26.0

