

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121117\  
 Data File : BF101280.D  
 Acq On : 11 Dec 2017 11:07  
 Operator : SJ/JU  
 Sample : PB104879BL  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB104879BL

Quant Time: Dec 11 12:59:06 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 08 18:17:31 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.83  | 152  | 43706    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.11  | 136  | 175060   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.87  | 164  | 86028    | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.36 | 188  | 172109   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 14.01 | 240  | 132810   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.49 | 264  | 95732    | 20.00  | ng    | 0.02     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.46  | 112  | 369817   | 139.82 | ng    | 0.02     |
| 7) Phenol-d6                | 6.47  | 99   | 438300   | 136.49 | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 7.40  | 82   | 272845   | 92.97  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.67 | 330  | 115892   | 112.14 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.19  | 172  | 612322   | 97.38  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.95 | 244  | 661228   | 108.90 | ng    | 0.01     |

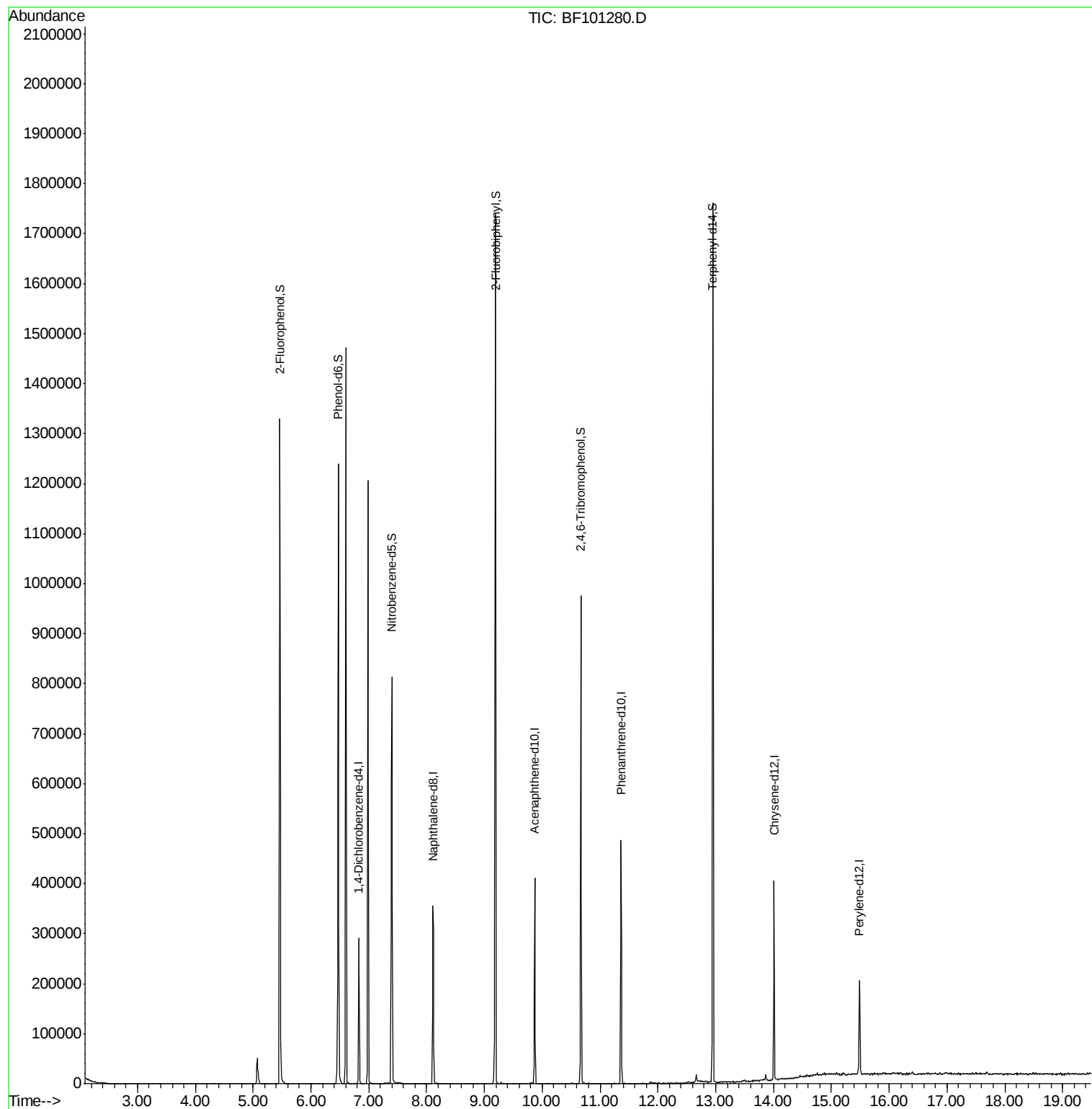
Target Compounds Qvalue

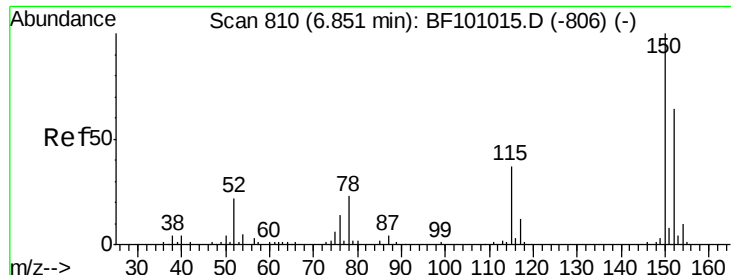
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121117\  
Data File : BF101280.D  
Acq On : 11 Dec 2017 11:07  
Operator : SJ/JU  
Sample : PB104879BL  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PB104879BL

Quant Time: Dec 11 12:59:06 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Dec 08 18:17:31 2017  
Response via : Initial Calibration

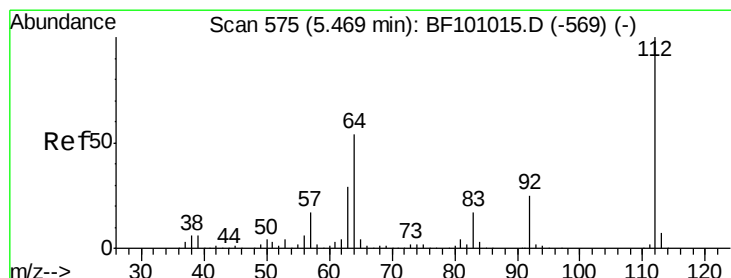
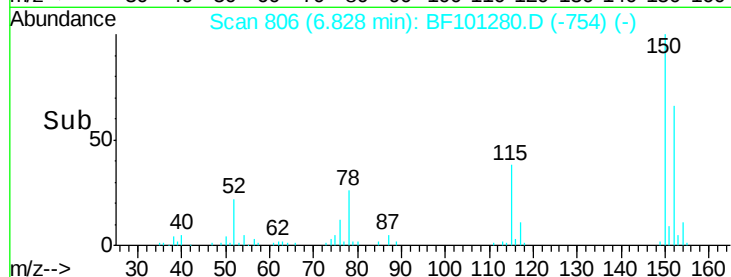
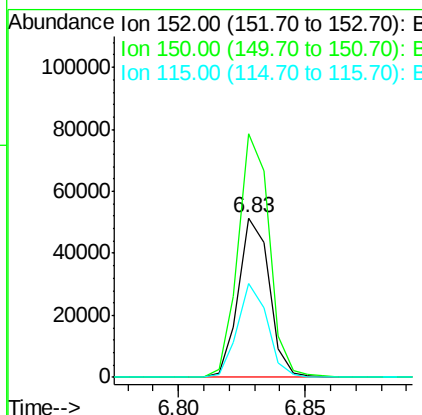
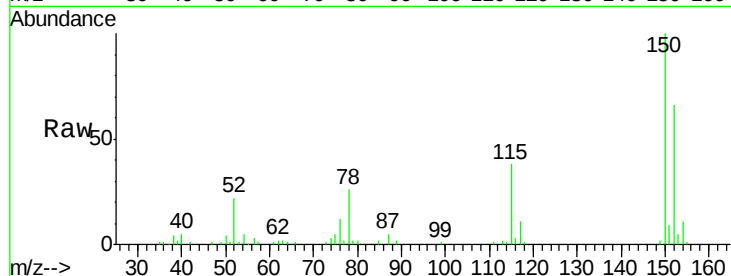




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.83 min Scan# 806  
 Delta R.T. 0.01 min  
 Lab File: BF101280.D  
 Acq: 11 Dec 2017 11:07

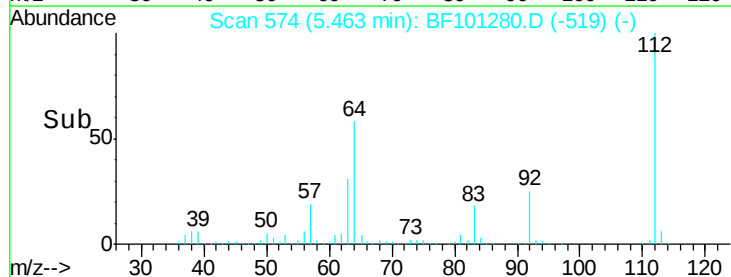
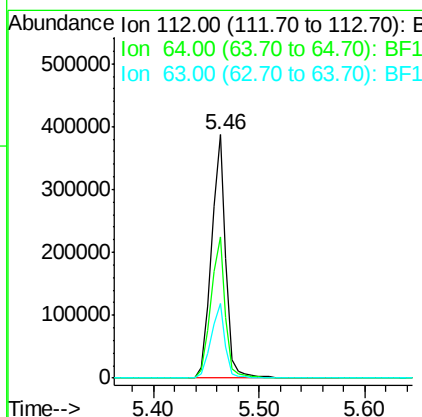
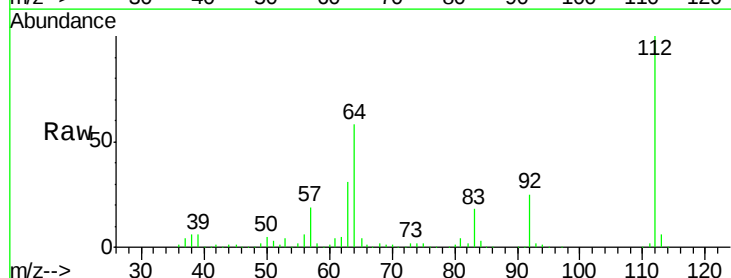
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB104879BL

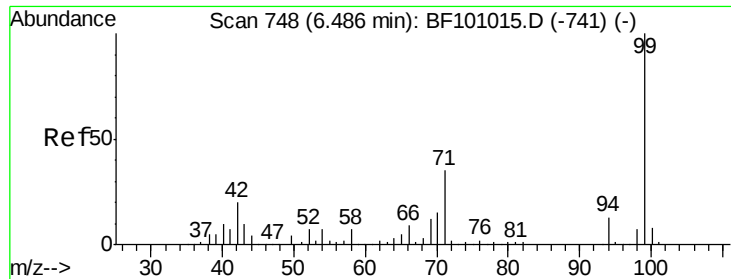
Tot Ion:152 Resp: 43706  
 Ion Ratio Lower Upper  
 152 100  
 150 152.6 124.6 186.8  
 115 58.7 50.1 75.1



#5  
 2-Fluorophenol  
 Concen: 139.821 ng  
 RT: 5.46 min Scan# 574  
 Delta R.T. 0.02 min  
 Lab File: BF101280.D  
 Acq: 11 Dec 2017 11:07

Tgt Ion:112 Resp: 369817  
 Ion Ratio Lower Upper  
 112 100  
 64 58.1 47.9 71.9  
 63 30.8 23.7 35.5





#7

Phenol-d6

Concen: 136.491 ng

RT: 6.47 min Scan# 746

Delta R.T. 0.01 min

Lab File: BF101280.D

Acq: 11 Dec 2017 11:07

Instrument :

BNA\_F

ClientSampleId :

PB104879BL

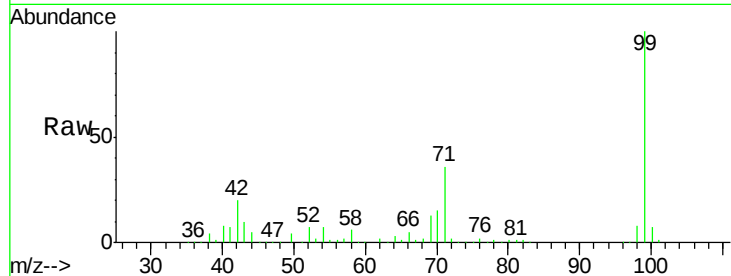
Tot Ion: 99 Resp: 438300

Ion Ratio Lower Upper

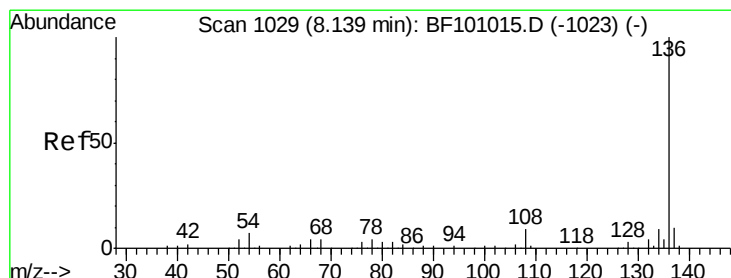
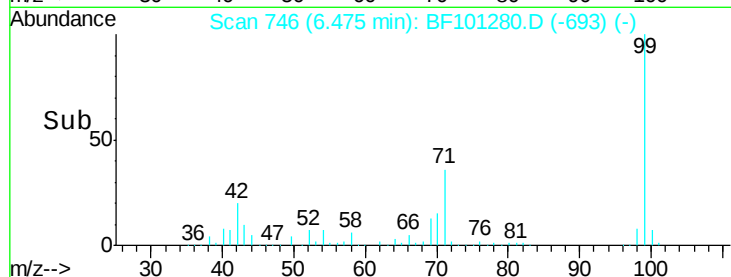
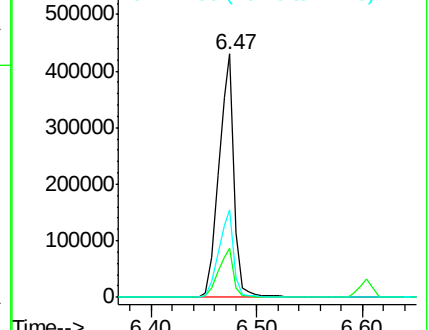
99 100

42 20.1 14.5 21.7

71 35.7 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.11 min Scan# 1024

Delta R.T. -0.00 min

Lab File: BF101280.D

Acq: 11 Dec 2017 11:07

Tgt Ion: 136 Resp: 175060

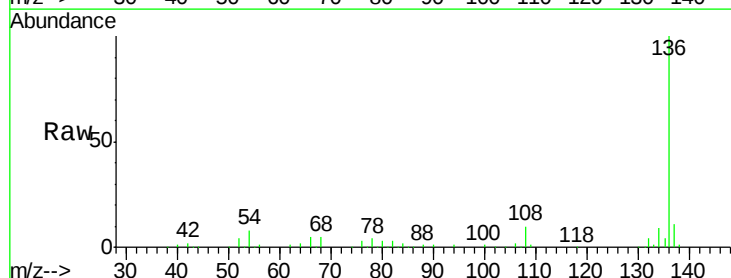
Ion Ratio Lower Upper

136 100

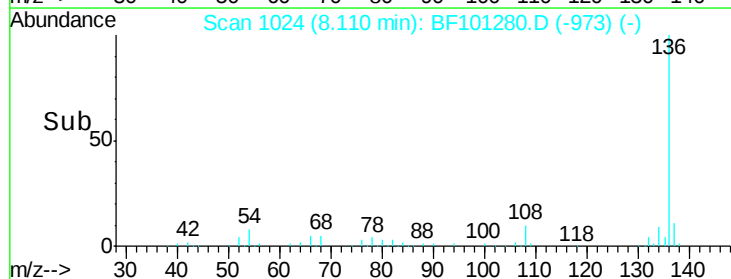
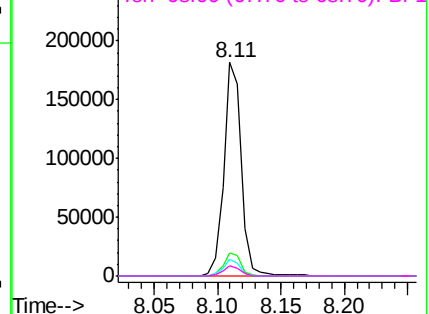
137 10.9 8.9 13.3

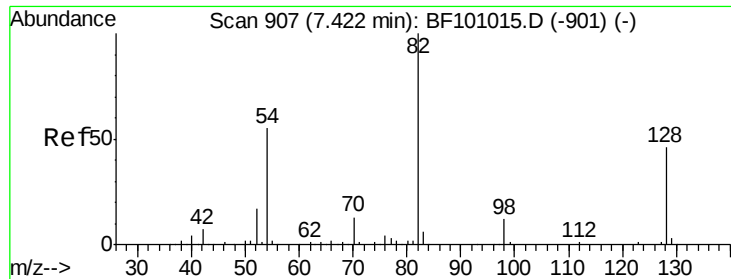
54 8.0 6.6 9.8

68 4.6 5.0 7.4#



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): BF1  
Ion 68.00 (67.70 to 68.70): BF1

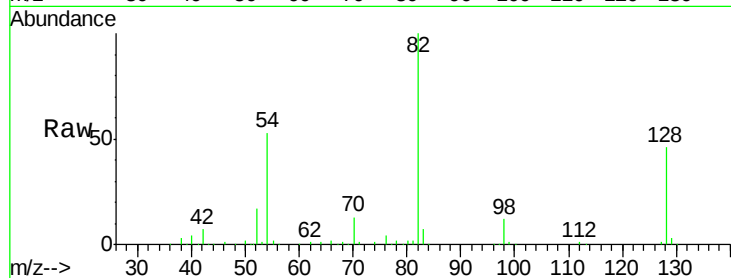




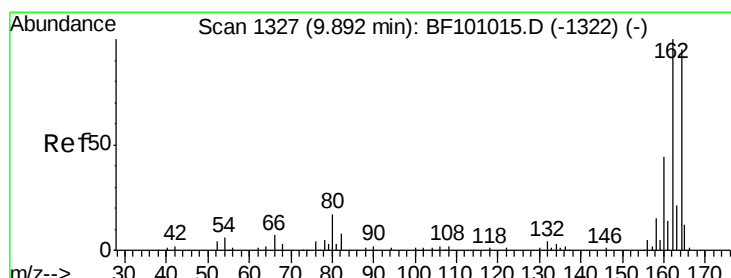
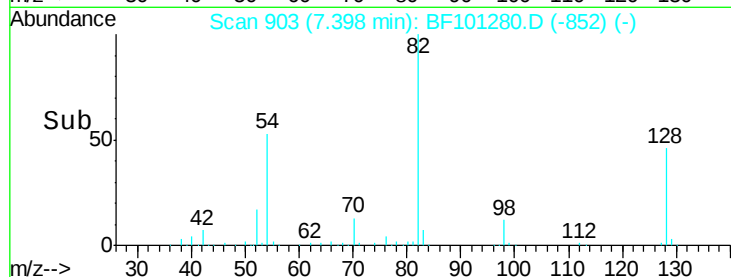
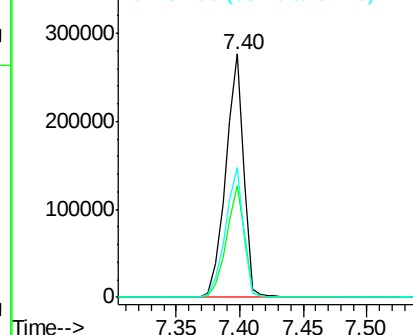
#23  
 Nitrobenzene-d5  
 Concen: 92.974 ng  
 RT: 7.40 min Scan# 903  
 Delta R.T. -0.00 min  
 Lab File: BF101280.D  
 Acq: 11 Dec 2017 11:07

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB104879BL

Tot Ion: 82 Resp: 272845  
 Ion Ratio Lower Upper  
 82 100  
 128 46.1 36.1 54.1  
 54 53.2 41.4 62.2

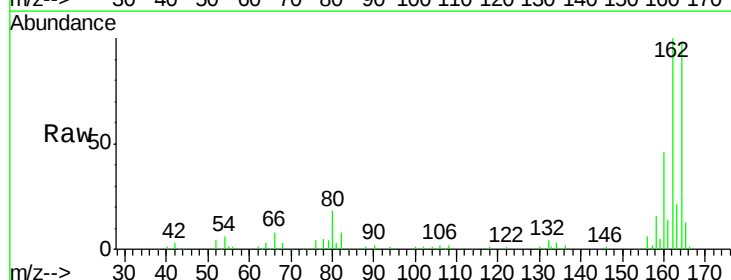


Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1

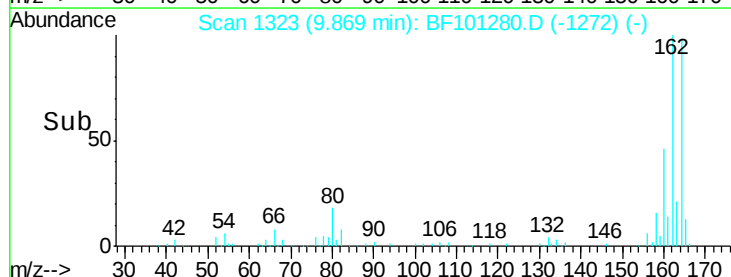
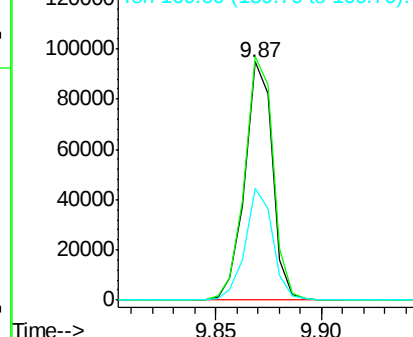


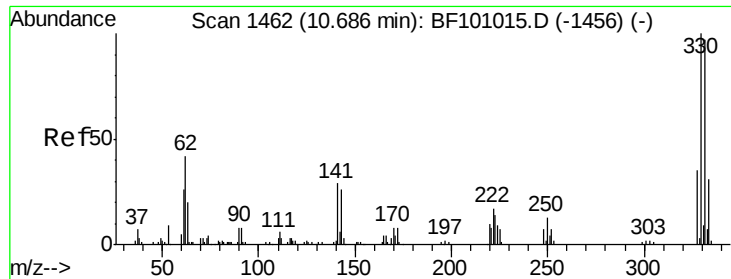
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.87 min Scan# 1323  
 Delta R.T. -0.00 min  
 Lab File: BF101280.D  
 Acq: 11 Dec 2017 11:07

Tgt Ion: 164 Resp: 86028  
 Ion Ratio Lower Upper  
 164 100  
 162 102.1 86.1 129.1  
 160 46.6 38.3 57.5



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

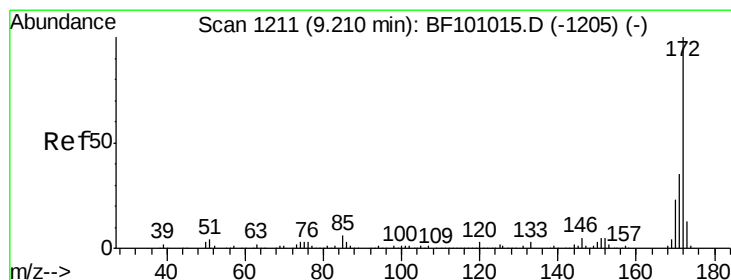
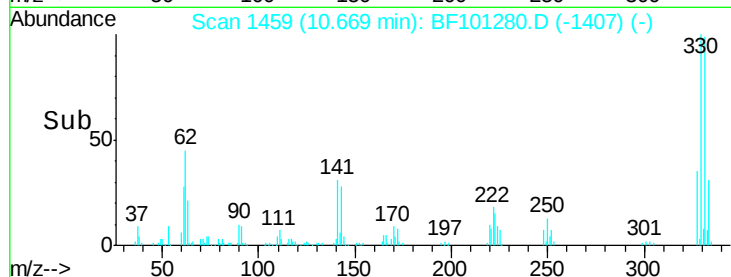
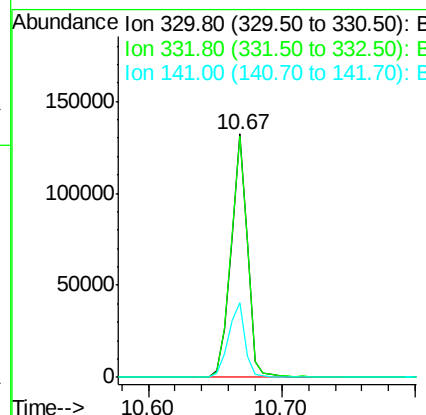
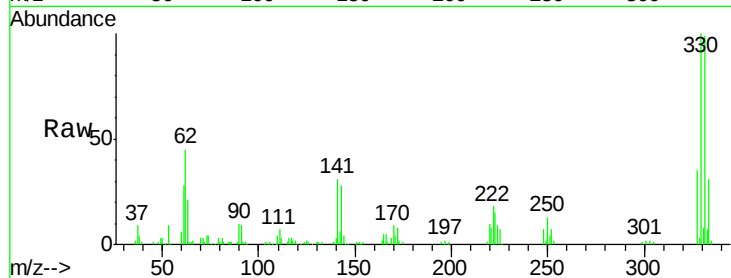




#41  
 2,4,6-Tribromophenol  
 Concen: 112.142 ng  
 RT: 10.67 min Scan# 1459  
 Delta R.T. 0.01 min  
 Lab File: BF101280.D  
 Acq: 11 Dec 2017 11:07

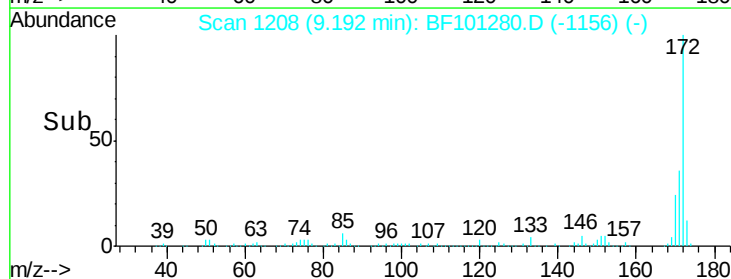
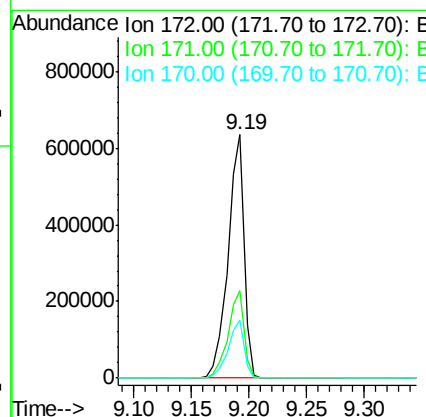
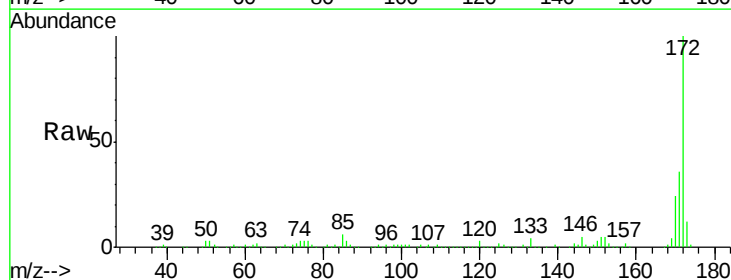
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB104879BL

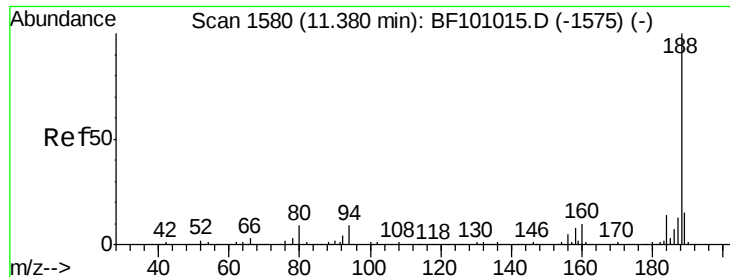
| Tot Ion   | 330    | 332   | 141  |
|-----------|--------|-------|------|
| Resp:     | 115892 |       |      |
| Ion Ratio | 100    | 99.6  | 30.6 |
| Lower     |        | 77.0  | 29.9 |
| Upper     |        | 115.6 | 44.9 |



#44  
 2-Fluorobiphenyl  
 Concen: 97.384 ng  
 RT: 9.19 min Scan# 1208  
 Delta R.T. 0.01 min  
 Lab File: BF101280.D  
 Acq: 11 Dec 2017 11:07

| Tgt Ion   | 172    | 171  | 170  |
|-----------|--------|------|------|
| Resp:     | 612322 |      |      |
| Ion Ratio | 100    | 36.0 | 23.7 |
| Lower     |        | 29.7 | 19.6 |
| Upper     |        | 44.5 | 29.4 |





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.36 min Scan# 1577

Delta R.T. 0.01 min

Lab File: BF101280.D

Acq: 11 Dec 2017 11:07

Instrument :

BNA\_F

ClientSampled :

PB104879BL

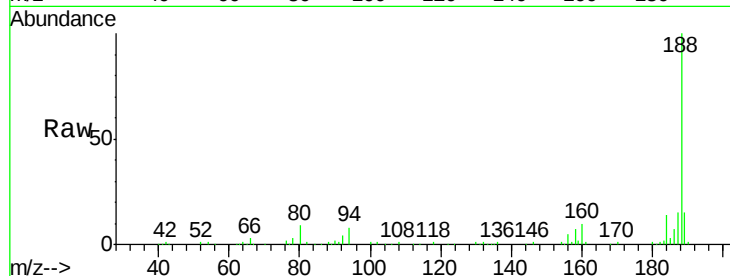
Tot Ion:188 Resp: 172109

Ion Ratio Lower Upper

188 100

94 7.8 8.5 12.7#

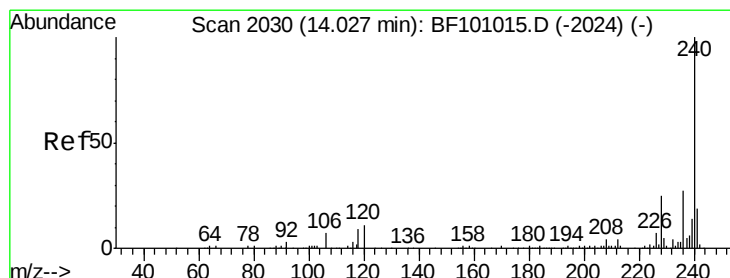
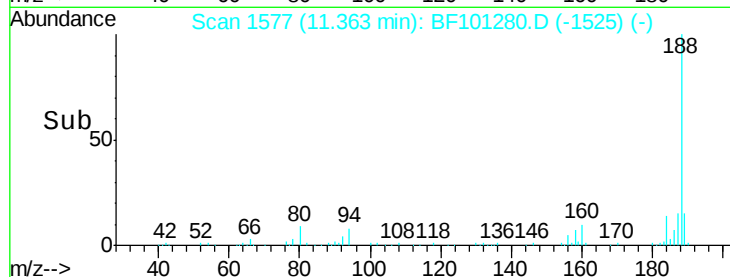
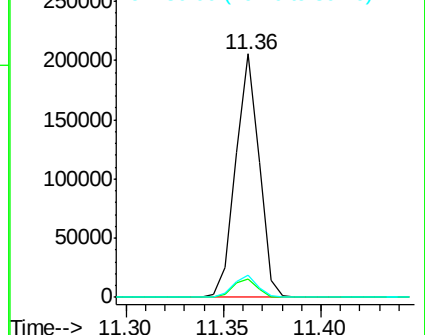
80 9.2 9.2 13.8



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.01 min Scan# 2027

Delta R.T. 0.01 min

Lab File: BF101280.D

Acq: 11 Dec 2017 11:07

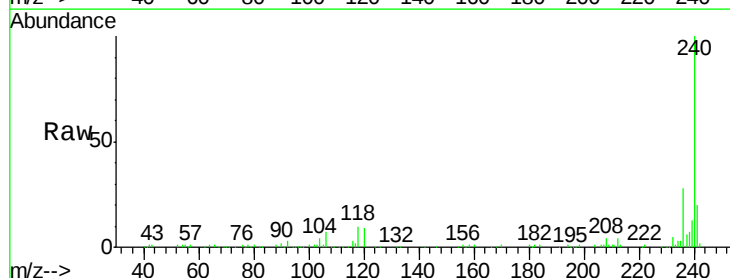
Tgt Ion:240 Resp: 132810

Ion Ratio Lower Upper

240 100

120 9.5 9.5 14.3#

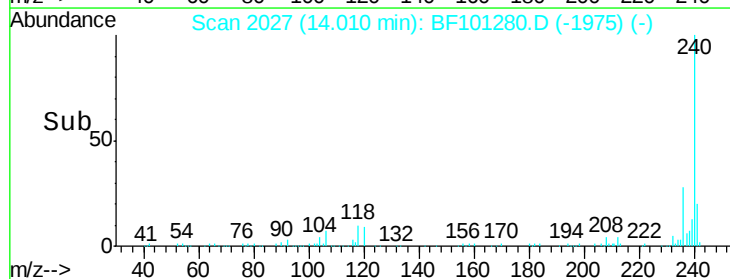
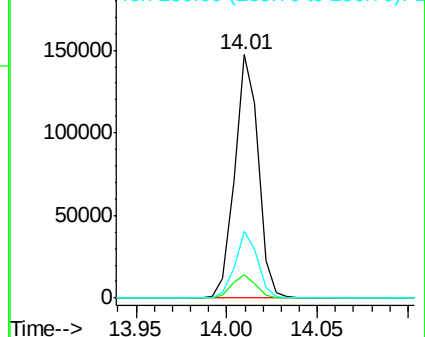
236 27.6 20.7 31.1

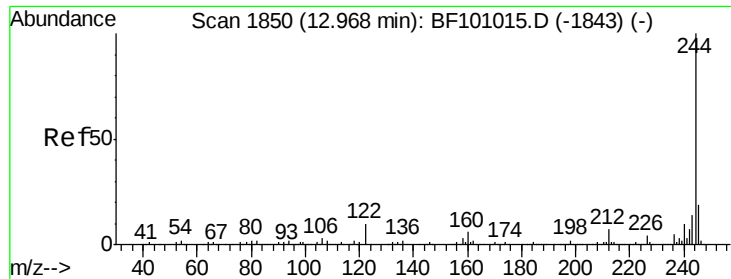


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 108.898 ng

RT: 12.95 min Scan# 1847

Delta R.T. 0.01 min

Lab File: BF101280.D

Acq: 11 Dec 2017 11:07

Instrument :

BNA\_F

ClientSampleId :

PB104879BL

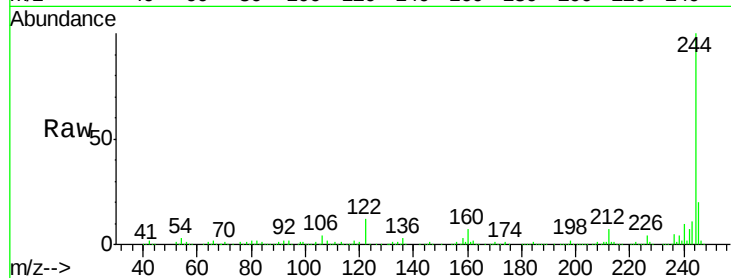
Tot Ion:244 Resp: 661228

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

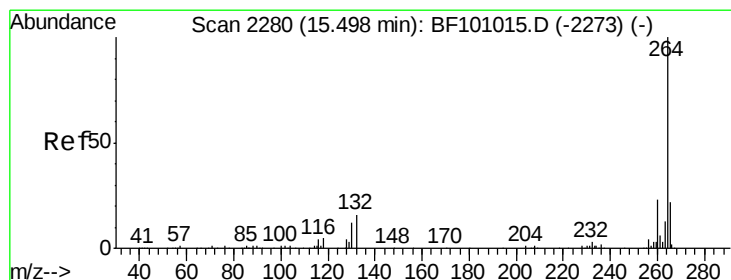
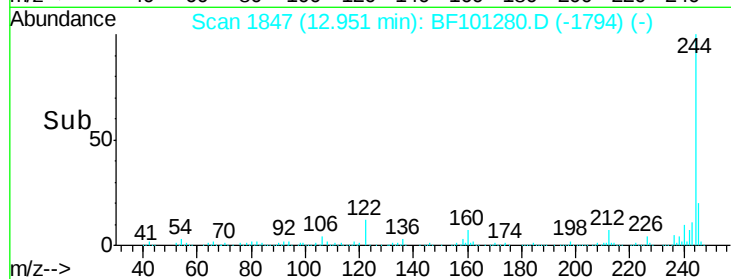
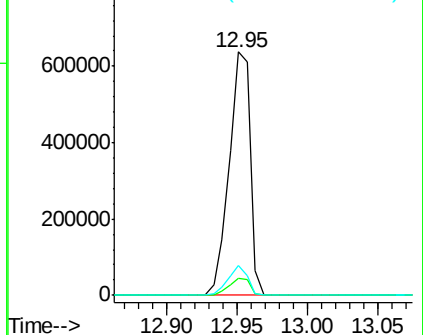
122 12.2 11.0 16.4



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



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.49 min Scan# 2278

Delta R.T. 0.02 min

Lab File: BF101280.D

Acq: 11 Dec 2017 11:07

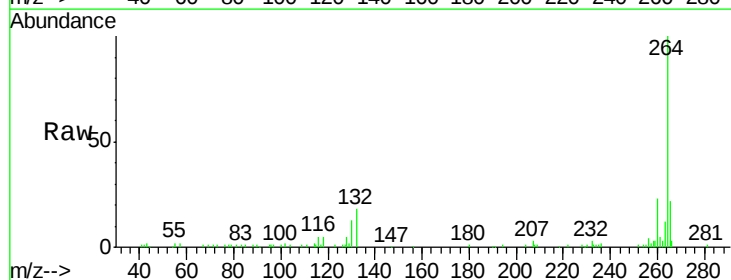
Tgt Ion:264 Resp: 95732

Ion Ratio Lower Upper

264 100

260 23.4 19.2 28.8

265 21.8 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

