

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF081115\  
 Data File : BF080967.D  
 Acq On : 11 Aug 2015 18:03  
 Operator : UM/IZ  
 Sample : PB84929TB  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB84929TB

Quant Time: Aug 12 01:50:02 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF080715.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Aug 08 01:33:05 2015  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.78  | 152  | 90469    | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8          | 8.06  | 136  | 338650   | 20.00 | ng    | -0.03    |
| 38) Acenaphthene-d10        | 9.82  | 164  | 176229   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10        | 11.30 | 188  | 371733   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12            | 13.93 | 240  | 286921   | 20.00 | ng    | -0.03    |
| 86) Perylene-d12            | 15.32 | 264  | 224067   | 20.00 | ng    | -0.03    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.39  | 112  | 421664   | 76.15 | ng    | 0.01     |
| 7) Phenol-d6                | 6.42  | 99   | 530647   | 69.94 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.34  | 82   | 308329   | 43.07 | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol    | 10.60 | 330  | 105475   | 54.48 | ng    | -0.03    |
| 44) 2-Fluorobiphenyl        | 9.15  | 172  | 621624   | 49.66 | ng    | -0.02    |
| 78) Terphenyl-d14           | 12.89 | 244  | 623764   | 44.90 | ng    | -0.02    |

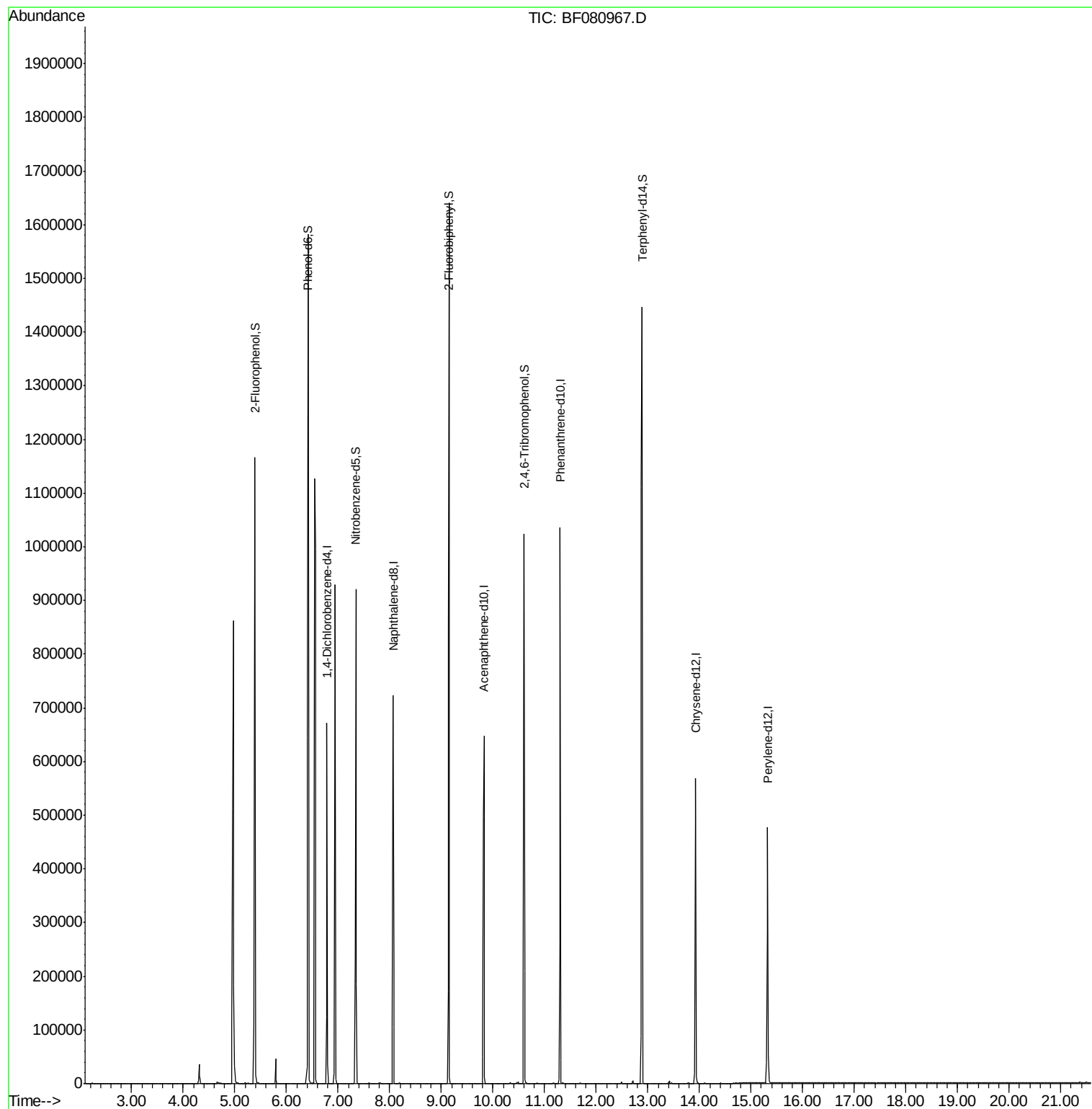
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

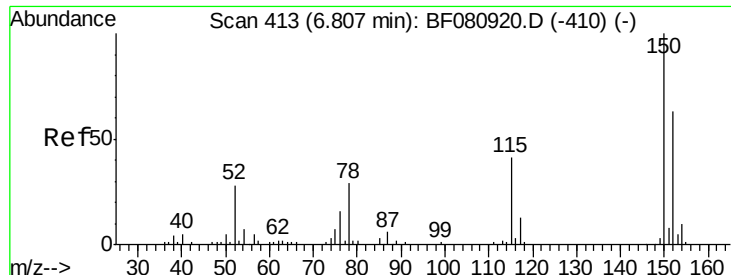
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PB84929TB

Quant Time: Aug 12 01:50:02 2015  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF080715.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Aug 08 01:33:05 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.78 min Scan# 411

Delta R.T. -0.02 min

Lab File: BF080967.D

Acq: 11 Aug 2015 18:03

Instrument :

BNA\_F

ClientSampleId :

PB84929TB

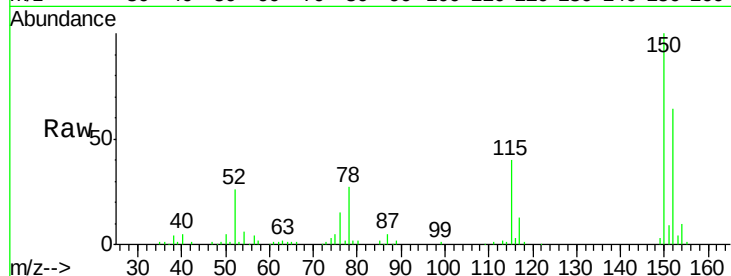
Tgt Ion:152 Resp: 90469

Ion Ratio Lower Upper

152 100

150 156.3 127.4 191.2

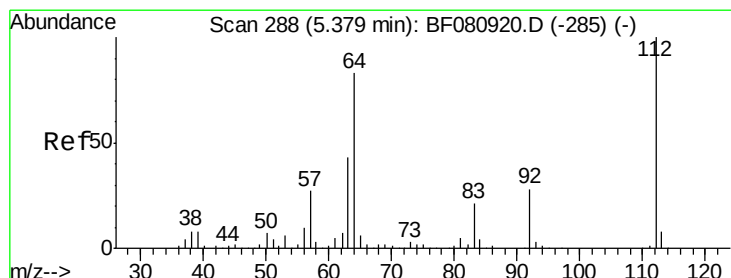
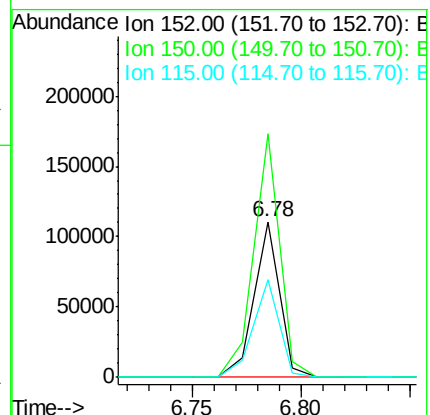
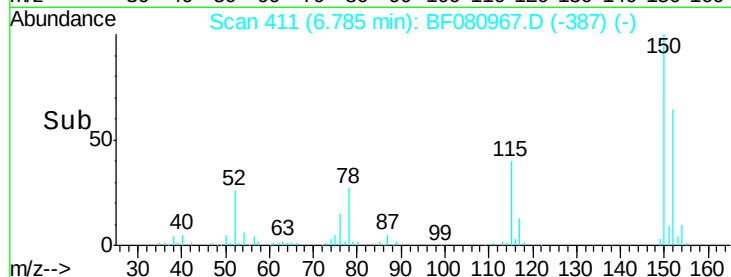
115 62.6 52.6 78.8



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: 76.15 ng

RT: 5.39 min Scan# 289

Delta R.T. 0.01 min

Lab File: BF080967.D

Acq: 11 Aug 2015 18:03

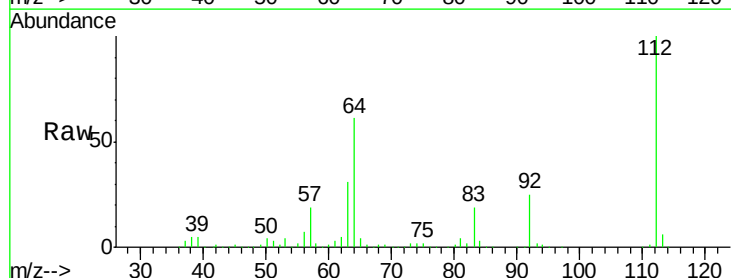
Tgt Ion:112 Resp: 421664

Ion Ratio Lower Upper

112 100

64 60.8 66.1 99.1#

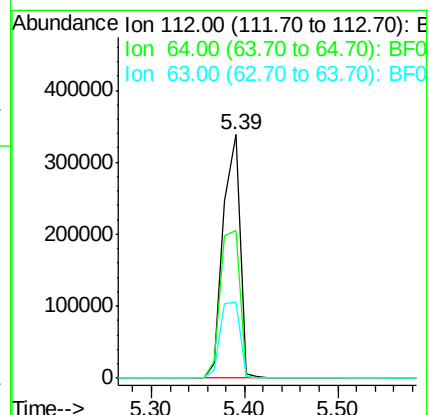
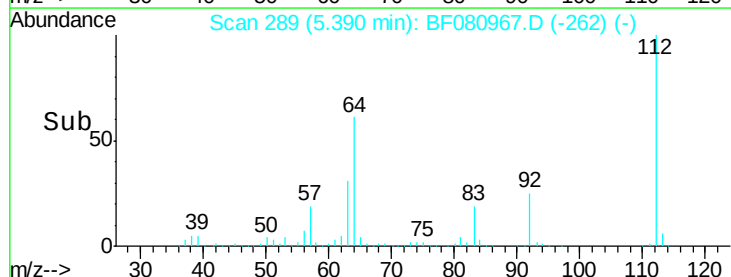
63 31.4 34.6 52.0#

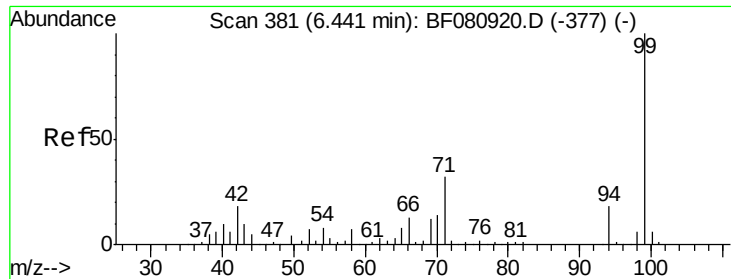


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 69.94 ng

RT: 6.42 min Scan# 379

Delta R.T. -0.02 min

Lab File: BF080967.D

Acq: 11 Aug 2015 18:03

Instrument :

BNA\_F

ClientSampleId :

PB84929TB

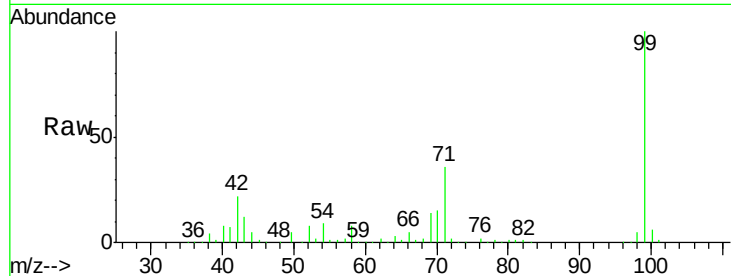
Tgt Ion: 99 Resp: 530647

Ion Ratio Lower Upper

99 100

42 22.0 14.4 21.6#

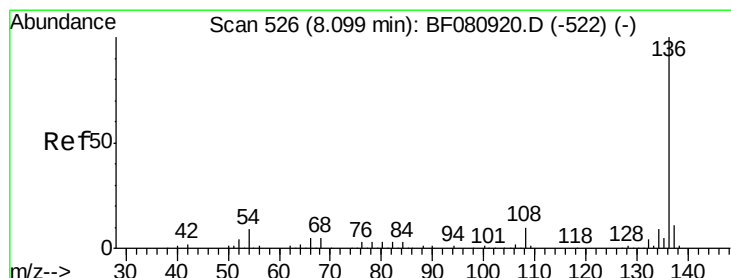
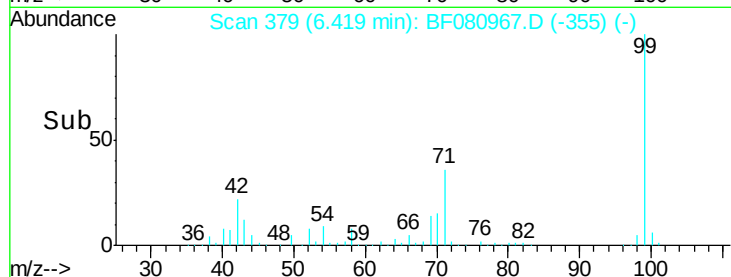
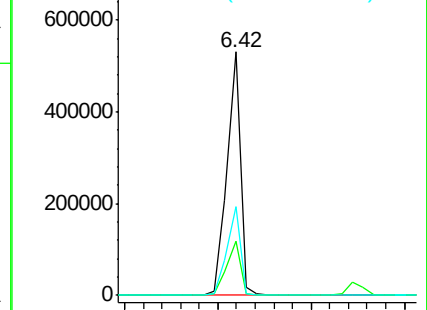
71 36.4 25.8 38.8



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.06 min Scan# 523

Delta R.T. -0.03 min

Lab File: BF080967.D

Acq: 11 Aug 2015 18:03

Tgt Ion: 136 Resp: 338650

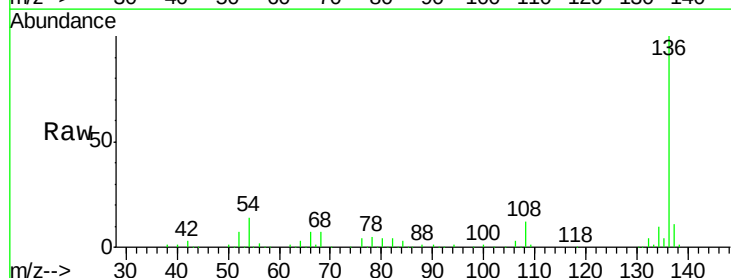
Ion Ratio Lower Upper

136 100

137 11.1 8.5 12.7

54 13.6 7.1 10.7#

68 6.7 3.8 5.8#

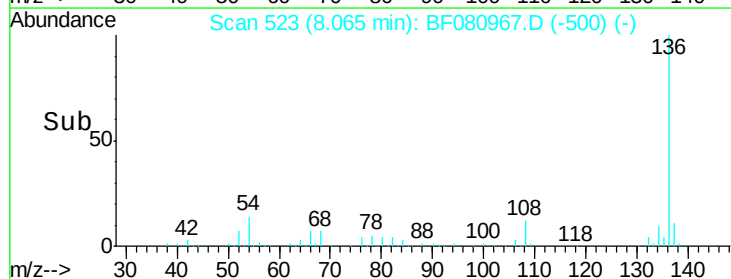
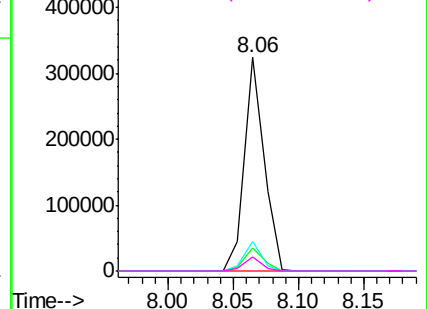


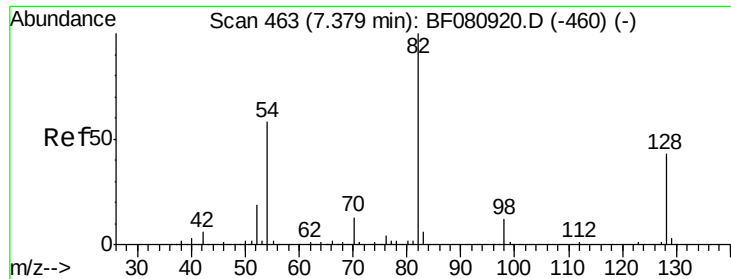
Abundance Ion 136.00 (135.70 to 136.70): E

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

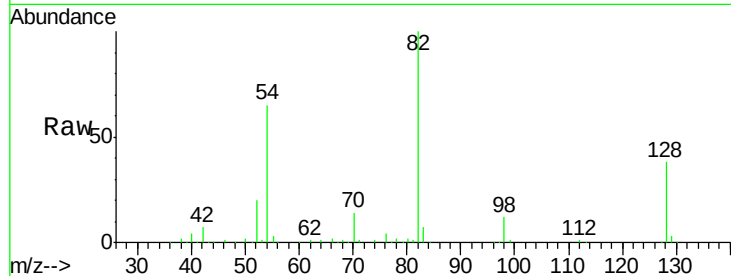




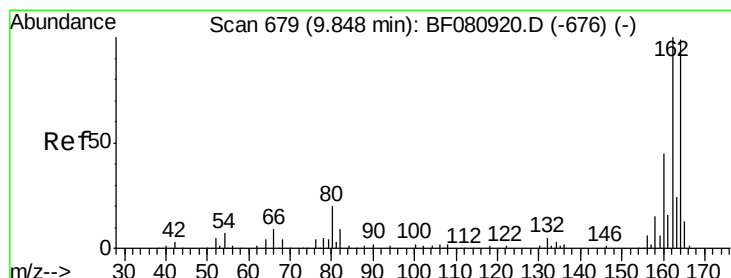
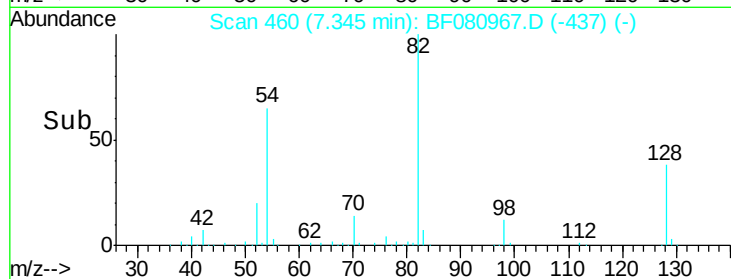
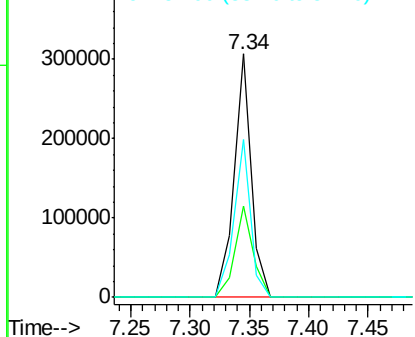
#23  
 Nitrobenzene-d5  
 Concen: 43.07 ng  
 RT: 7.34 min Scan# 460  
 Delta R.T. -0.03 min  
 Lab File: BF080967.D  
 Acq: 11 Aug 2015 18:03

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB84929TB

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 37.7  | 34.1  | 51.1  |
| 54      | 64.8  | 46.5  | 69.7  |

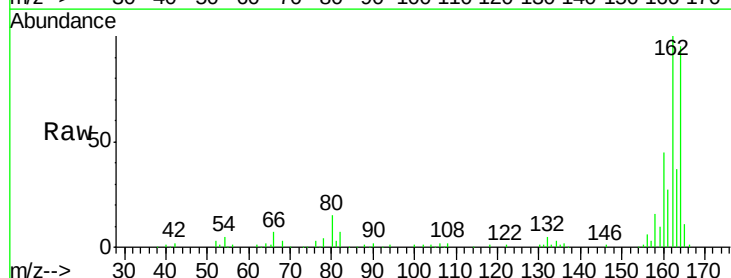


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BF0

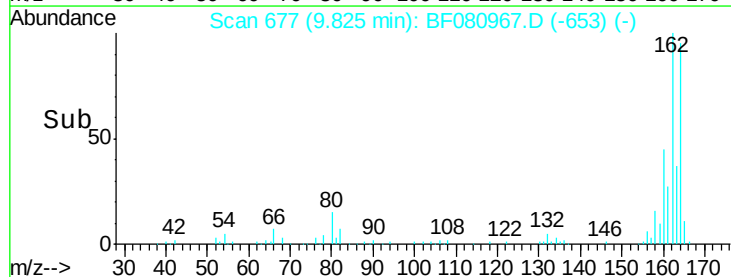
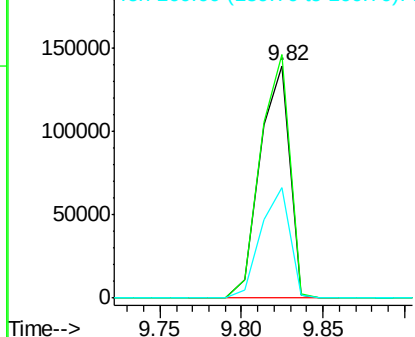


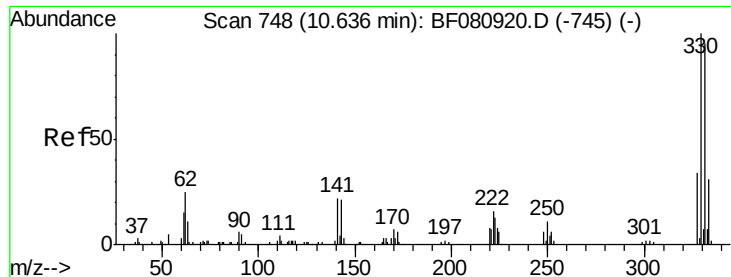
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.82 min Scan# 677  
 Delta R.T. -0.02 min  
 Lab File: BF080967.D  
 Acq: 11 Aug 2015 18:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.8 | 80.5  | 120.7 |
| 160     | 47.5  | 36.6  | 54.8  |



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

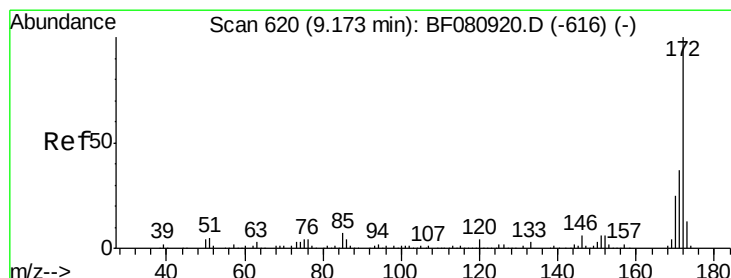
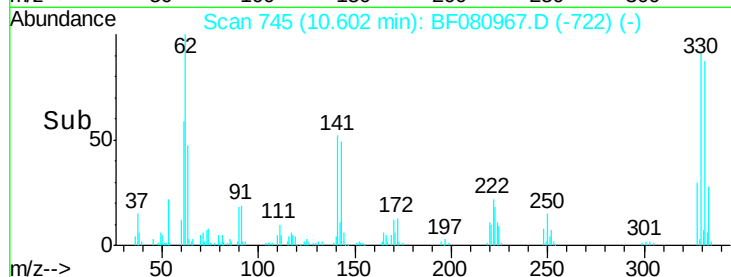
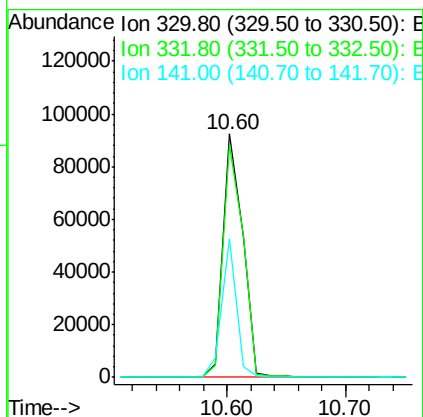
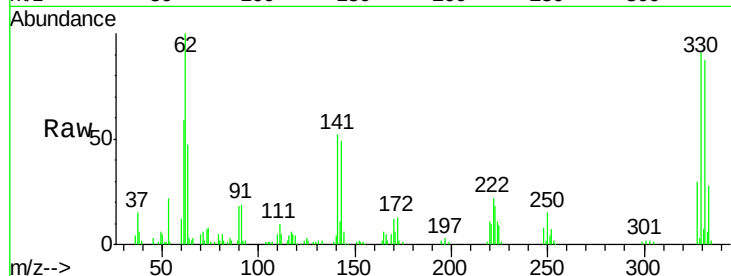




#41  
 2,4,6-Tribromophenol  
 Concen: 54.48 ng  
 RT: 10.60 min Scan# 745  
 Delta R.T. -0.03 min  
 Lab File: BF080967.D  
 Acq: 11 Aug 2015 18:03

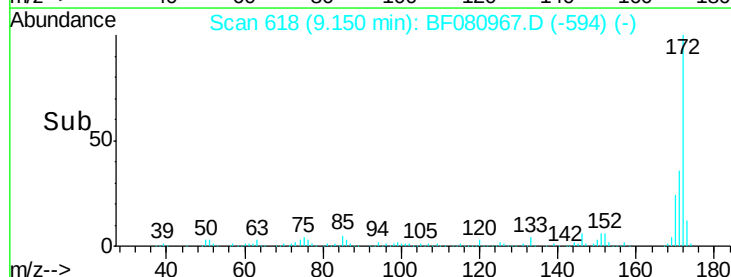
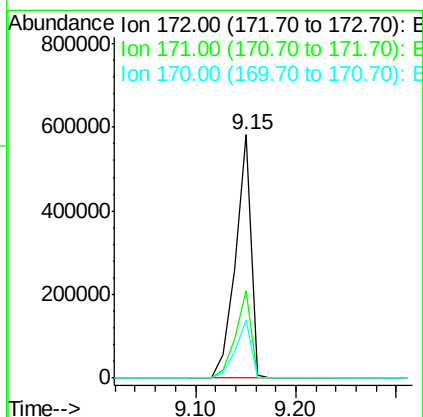
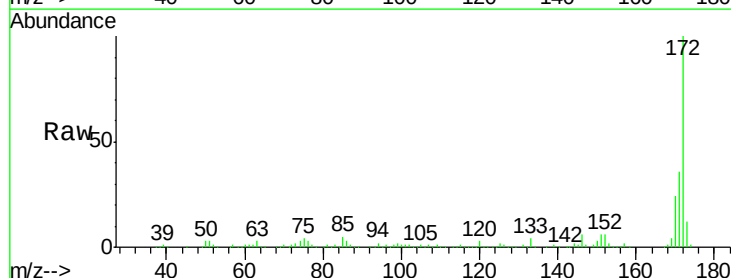
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB84929TB

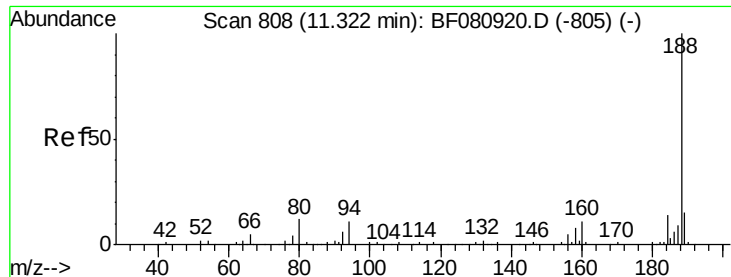
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.9  | 76.2  | 114.4 |
| 141     | 41.9  | 27.8  | 41.8# |



#44  
 2-Fluorobiphenyl  
 Concen: 49.66 ng  
 RT: 9.15 min Scan# 618  
 Delta R.T. -0.02 min  
 Lab File: BF080967.D  
 Acq: 11 Aug 2015 18:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.9  | 29.4  | 44.0  |
| 170     | 23.9  | 19.7  | 29.5  |

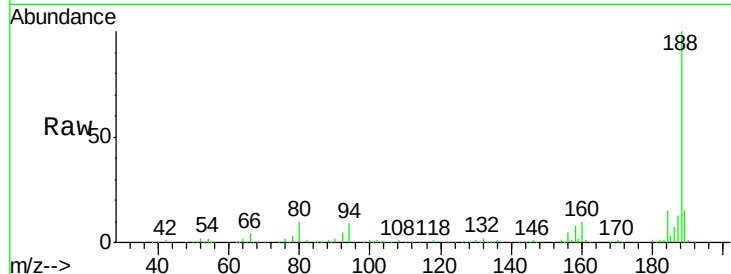




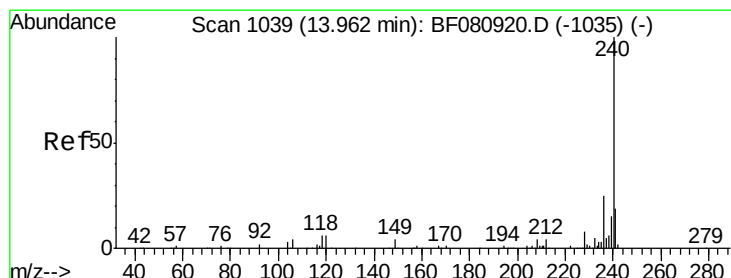
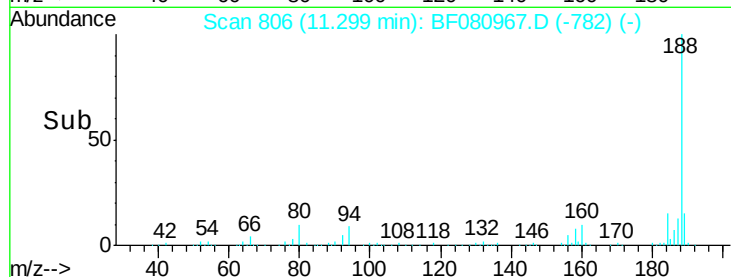
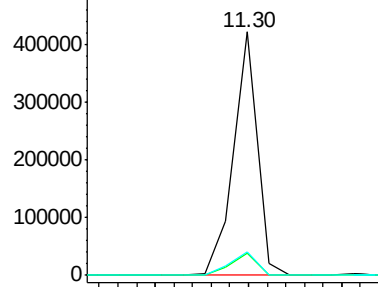
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.30 min Scan# 806  
Delta R.T. -0.02 min  
Lab File: BF080967.D  
Acq: 11 Aug 2015 18:03

Instrument :  
BNA\_F  
ClientSampled :  
PB84929TB

Tgt Ion:188 Resp: 371733  
Ion Ratio Lower Upper  
188 100  
94 8.9 8.8 13.2  
80 9.9 9.5 14.3

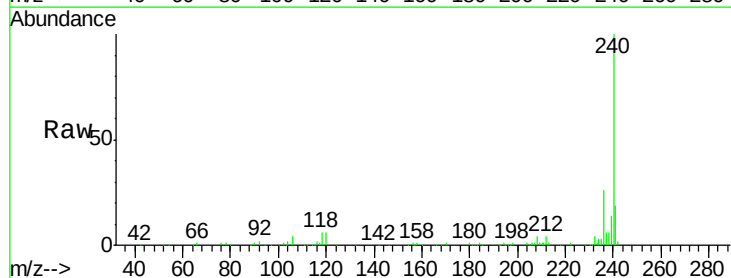


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

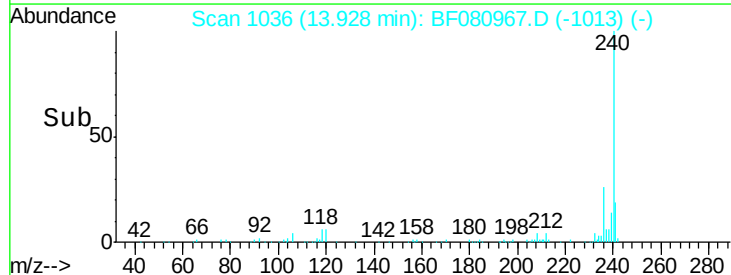
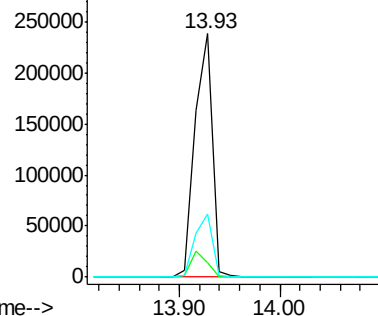


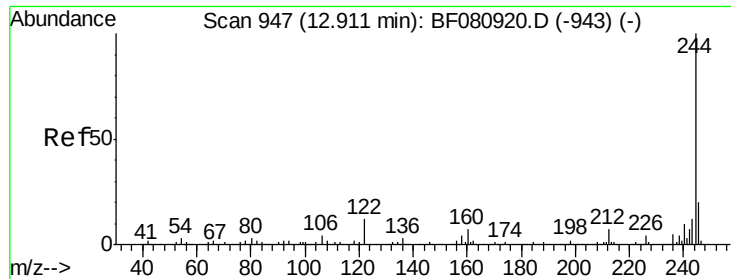
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.93 min Scan# 1036  
Delta R.T. -0.03 min  
Lab File: BF080967.D  
Acq: 11 Aug 2015 18:03

Tgt Ion:240 Resp: 286921  
Ion Ratio Lower Upper  
240 100  
120 6.1 5.2 7.8  
236 26.0 20.2 30.4



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

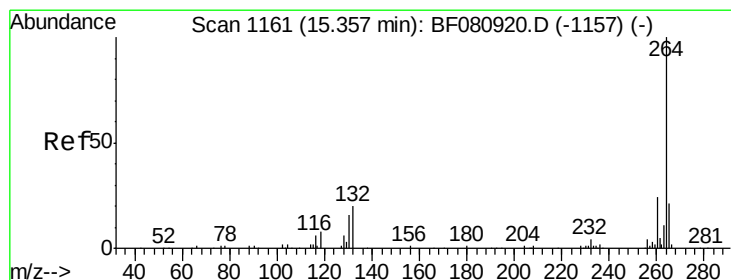
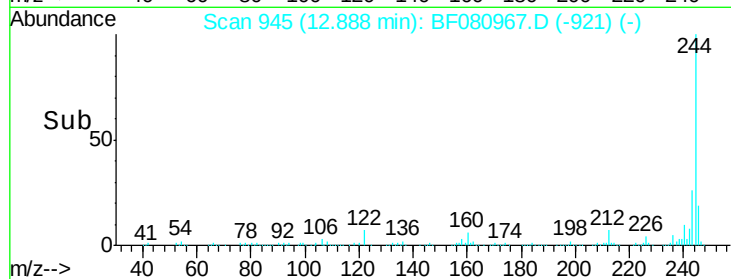
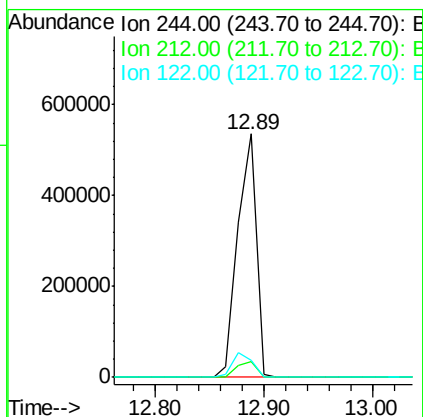
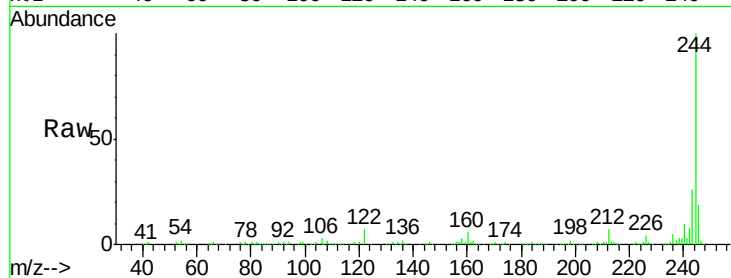




#78  
 Terphenyl-d14  
 Concen: 44.90 ng  
 RT: 12.89 min Scan# 945  
 Delta R.T. -0.02 min  
 Lab File: BF080967.D  
 Acq: 11 Aug 2015 18:03

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB84929TB

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.7   | 5.8   | 8.8   |
| 122     | 7.2   | 9.4   | 14.2# |



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.32 min Scan# 1158  
 Delta R.T. -0.03 min  
 Lab File: BF080967.D  
 Acq: 11 Aug 2015 18:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.8  | 19.4  | 29.0  |
| 265     | 20.8  | 17.0  | 25.4  |

