

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092016\  
 Data File : BF090220.D  
 Acq On : 26 Sep 2016 14:46  
 Operator : UM/SJ  
 Sample : PB93609BL  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Sep 26 15:47:11 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092016.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 20 17:58:29 2016  
 Response via : Initial Calibration

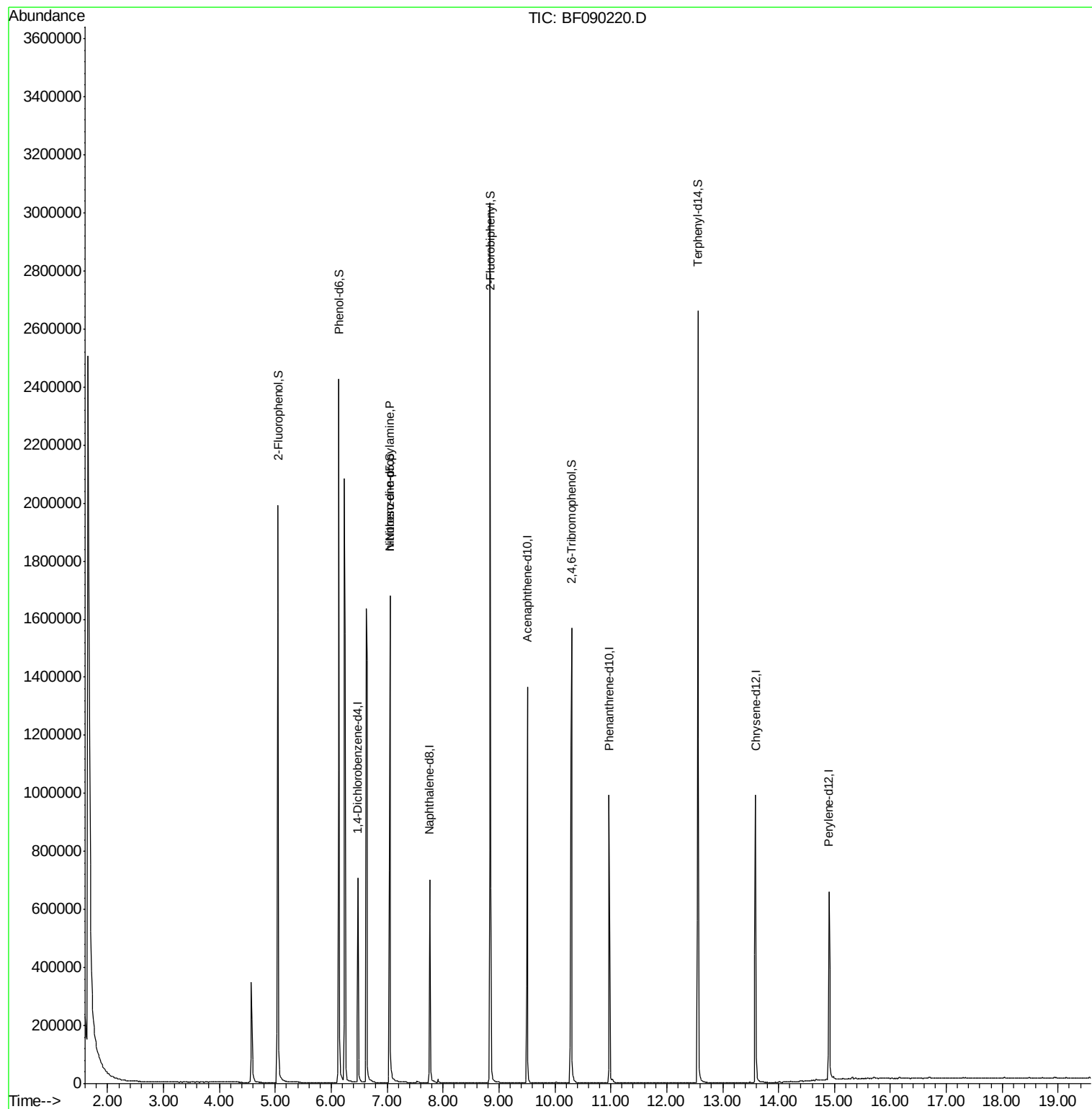
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)       |
|--------------------------------|-------|------|----------|--------|-------|----------------|
| 1) 1,4-Dichlorobenzene-d4      | 6.48  | 152  | 129257   | 20.00  | ng    | -0.05          |
| 21) Naphthalene-d8             | 7.76  | 136  | 507500   | 20.00  | ng    | -0.06          |
| 38) Acenaphthene-d10           | 9.51  | 164  | 307700   | 20.00  | ng    | -0.05          |
| 63) Phenanthrene-d10           | 10.97 | 188  | 468071   | 20.00  | ng    | -0.06          |
| 75) Chrysene-d12               | 13.59 | 240  | 412477   | 20.00  | ng    | -0.05          |
| 86) Perylene-d12               | 14.90 | 264  | 307448   | 20.00  | ng    | -0.06          |
| System Monitoring Compounds    |       |      |          |        |       |                |
| 5) 2-Fluorophenol              | 5.05  | 112  | 916518   | 115.58 | ng    | -0.02          |
| 7) Phenol-d6                   | 6.14  | 99   | 1092249  | 111.53 | ng    | -0.03          |
| 23) Nitrobenzene-d5            | 7.05  | 82   | 698812   | 79.82  | ng    | -0.05          |
| 41) 2,4,6-Tribromophenol       | 10.30 | 330  | 298570   | 113.10 | ng    | -0.05          |
| 44) 2-Fluorobiphenyl           | 8.84  | 172  | 1129196  | 72.04  | ng    | -0.05          |
| 78) Terphenyl-d14              | 12.56 | 244  | 1067277  | 65.69  | ng    | -0.05          |
| Target Compounds               |       |      |          |        |       |                |
| 19) n-Nitroso-di-n-propylamine | 7.05  | 70   | 81811    | 14.22  | ng    | Qvalue<br># 79 |

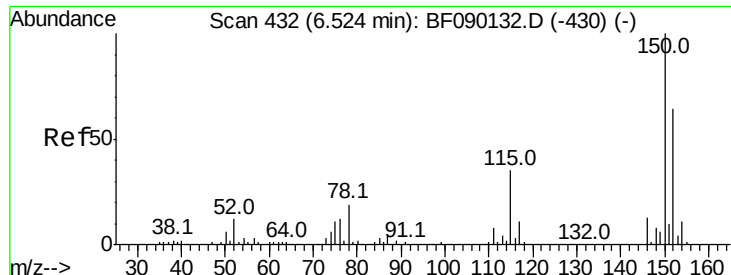
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092616\  
Data File : BF090220.D  
Acq On : 26 Sep 2016 14:46  
Operator : UM/SJ  
Sample : PB93609BL  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Sep 26 15:47:11 2016  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092016.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 20 17:58:29 2016  
Response via : Initial Calibration



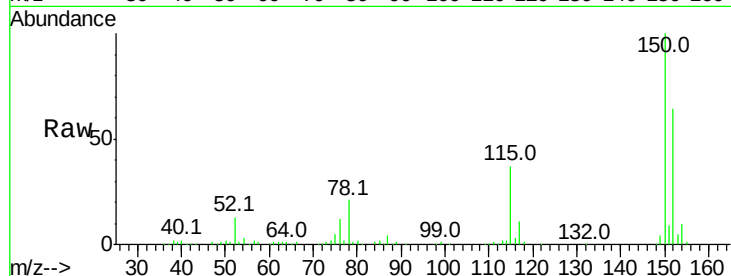


#1

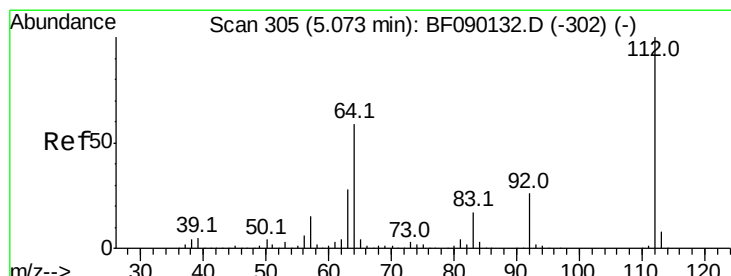
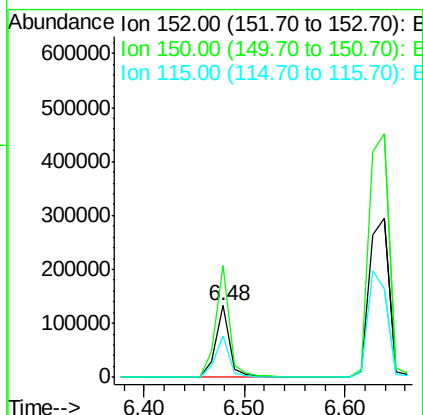
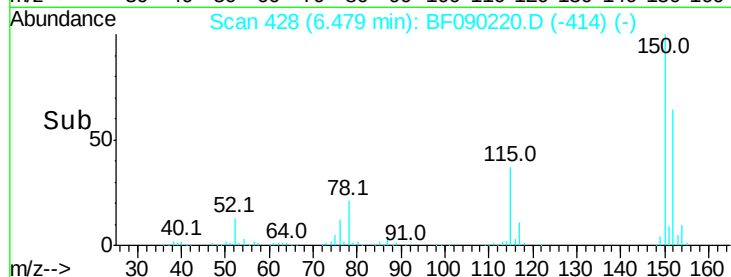
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.48 min Scan# 428  
Delta R.T. -0.05 min  
Lab File: BF090220.D  
Acq: 26 Sep 2016 14:46

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.3 | 128.9 | 193.3 |
| 115     | 57.1  | 55.5  | 83.3  |



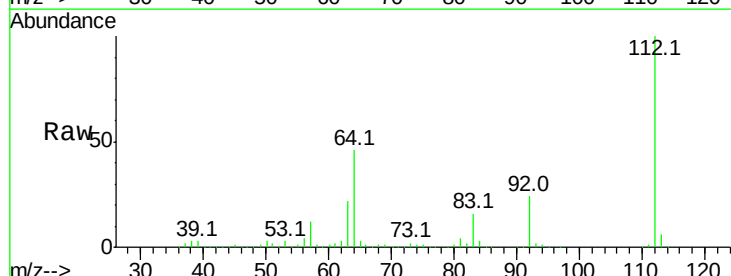
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



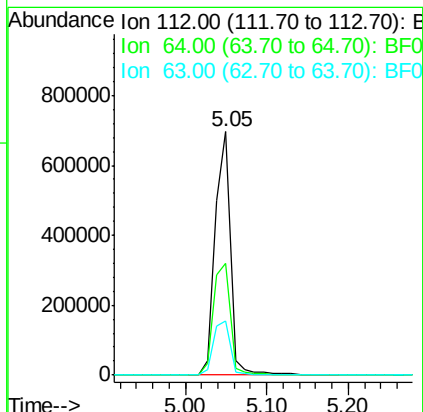
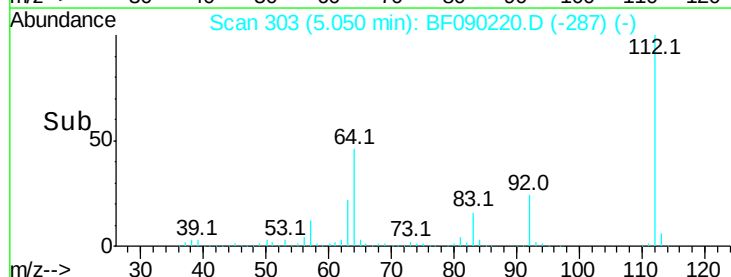
#5

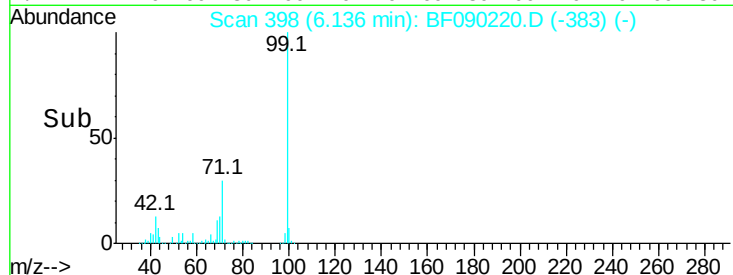
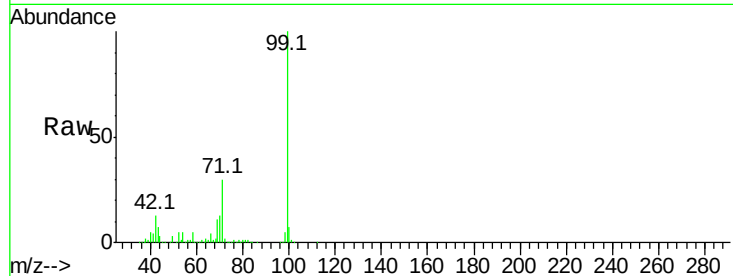
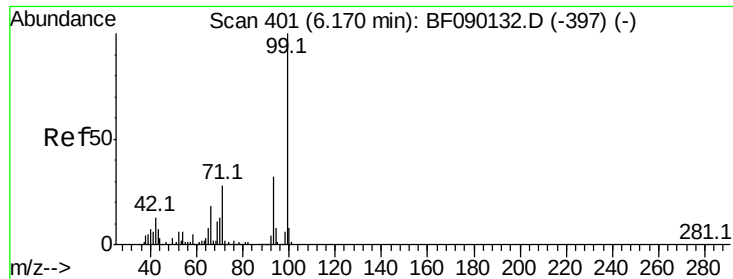
2-Fluorophenol  
Concen: 115.58 ng  
RT: 5.05 min Scan# 303  
Delta R.T. -0.02 min  
Lab File: BF090220.D  
Acq: 26 Sep 2016 14:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 45.8  | 39.8  | 59.6  |
| 63      | 22.2  | 18.9  | 28.3  |



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: 111.53 ng

RT: 6.14 min Scan# 398

Delta R.T. -0.03 min

Lab File: BF090220.D

Acq: 26 Sep 2016 14:46

Instrument :

BNA\_F

ClientSampleId :

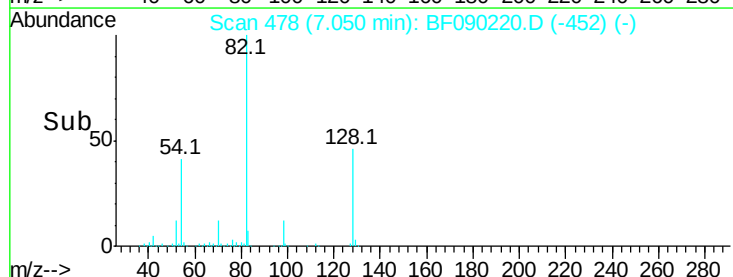
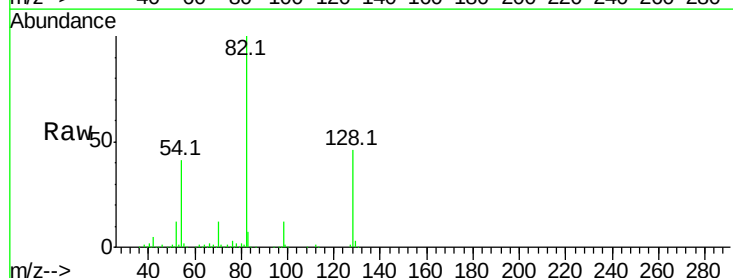
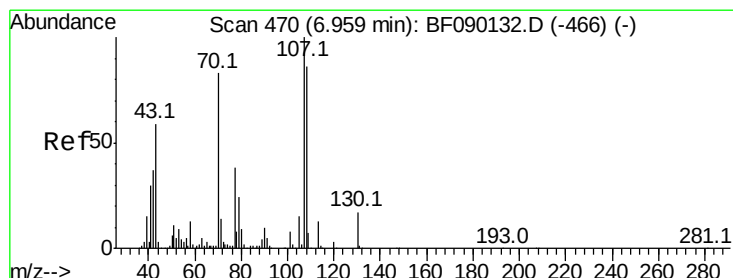
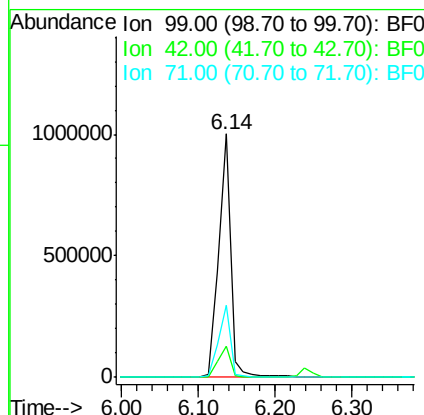
Tot Ion: 99 Resp: 1092249

Ion Ratio Lower Upper

99 100

42 12.9 10.6 15.8

71 29.8 23.0 34.6



#19

n-Nitroso-di-n-propylamine

Concen: 14.22 ng

RT: 7.05 min Scan# 478

Delta R.T. 0.09 min

Lab File: BF090220.D

Acq: 26 Sep 2016 14:46

Tgt Ion: 70 Resp: 81811

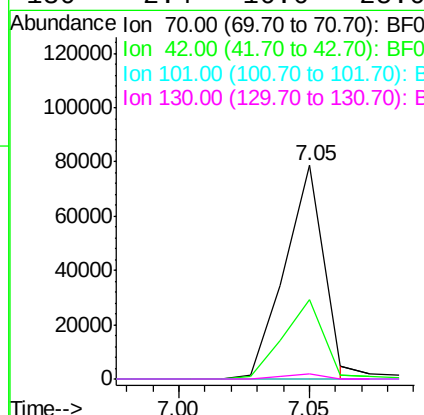
Ion Ratio Lower Upper

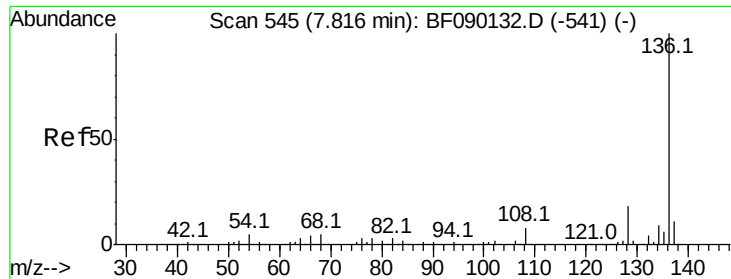
70 100

42 36.9 35.1 52.7

101 0.0 7.5 11.3#

130 2.4 16.6 25.0#

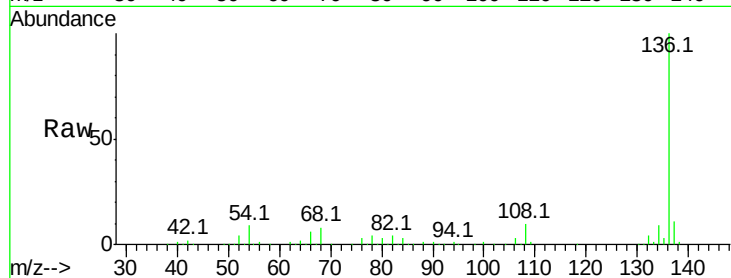




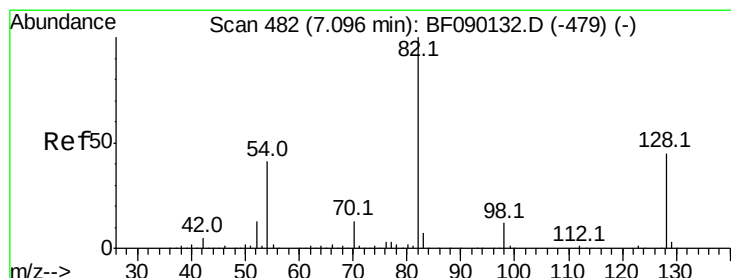
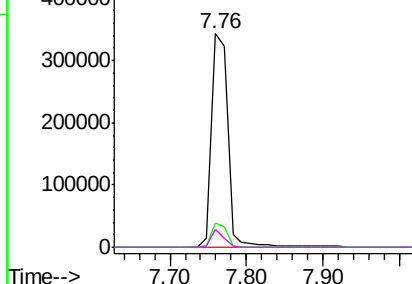
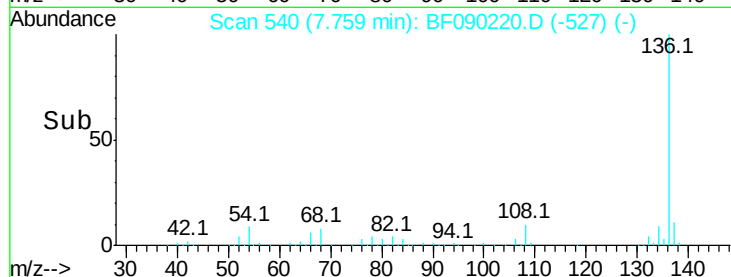
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.76 min Scan# 540  
Delta R.T. -0.06 min  
Lab File: BF090220.D  
Acq: 26 Sep 2016 14:46

Instrument :  
BNA\_F  
ClientSampled :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 507500 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.1  | 9.0   | 13.4   |
| 54       | 8.7   | 6.4   | 9.6    |
| 68       | 8.1   | 6.3   | 9.5    |

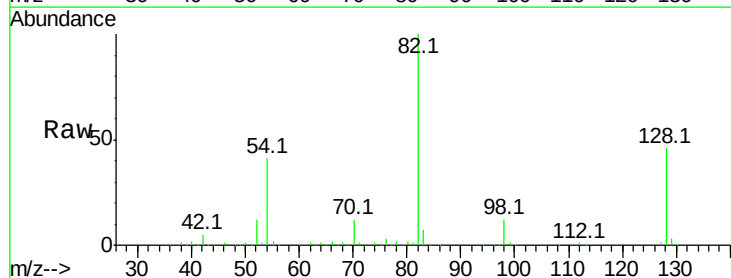


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

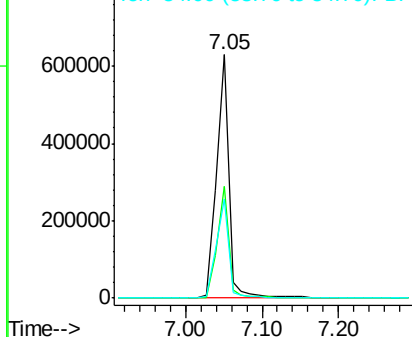
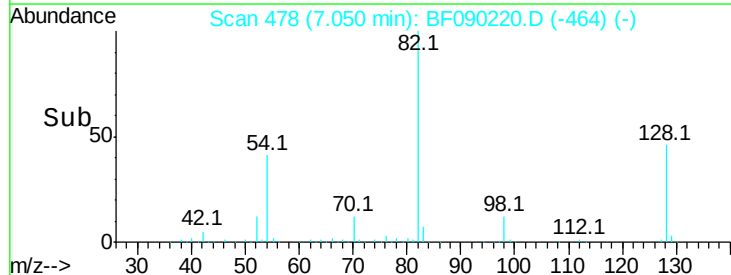


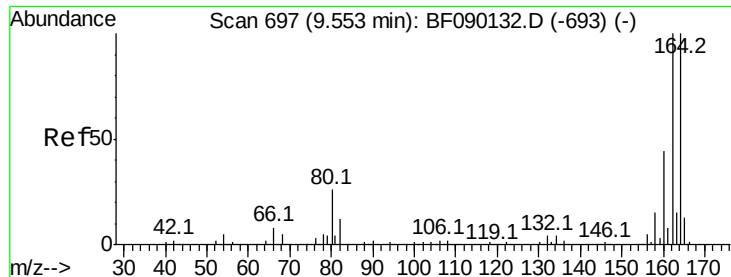
#23  
Nitrobenzene-d5  
Concen: 79.82 ng  
RT: 7.05 min Scan# 478  
Delta R.T. -0.05 min  
Lab File: BF090220.D  
Acq: 26 Sep 2016 14:46

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 698812 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 46.0  | 37.5  | 56.3   |
| 54       | 40.7  | 31.9  | 47.9   |



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

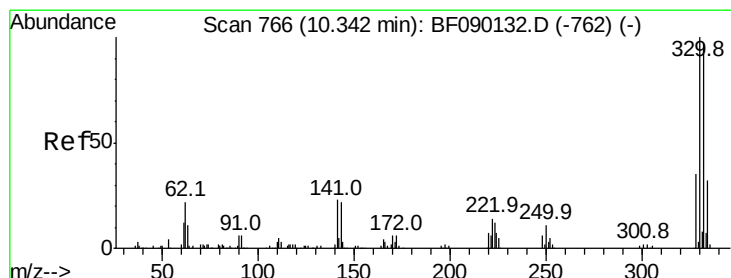
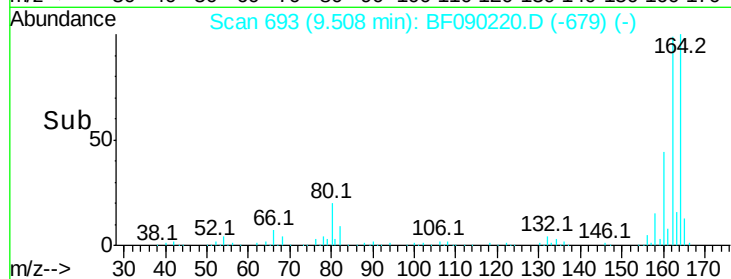
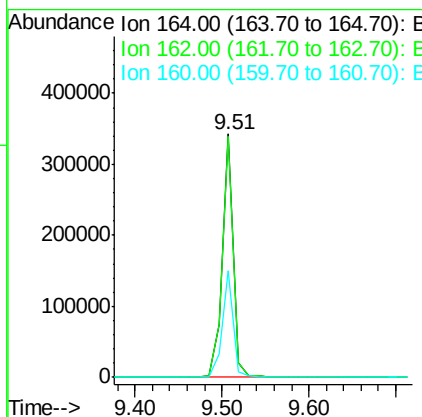
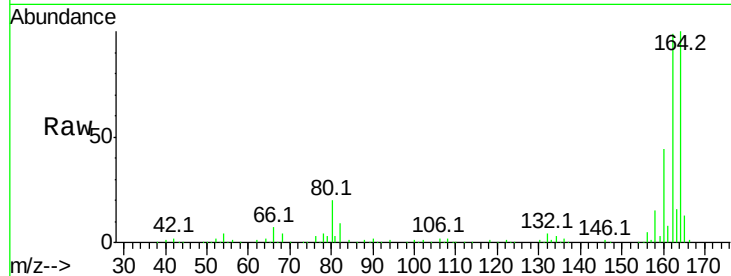




#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.51 min Scan# 693  
Delta R.T. -0.05 min  
Lab File: BF090220.D  
Acq: 26 Sep 2016 14:46

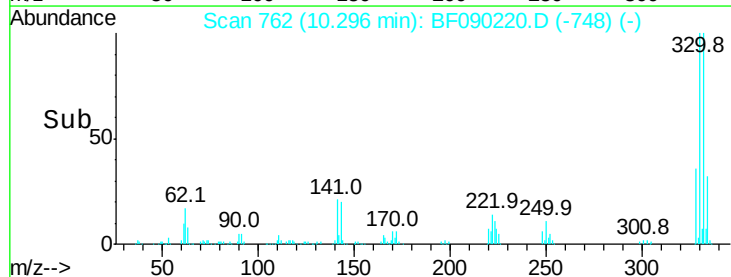
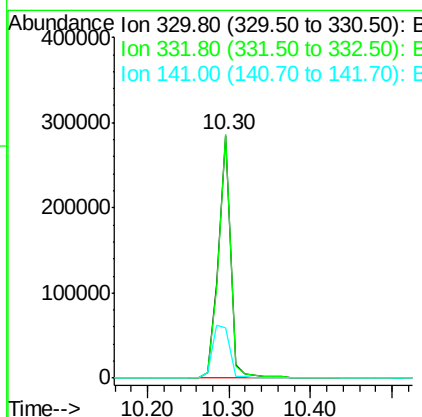
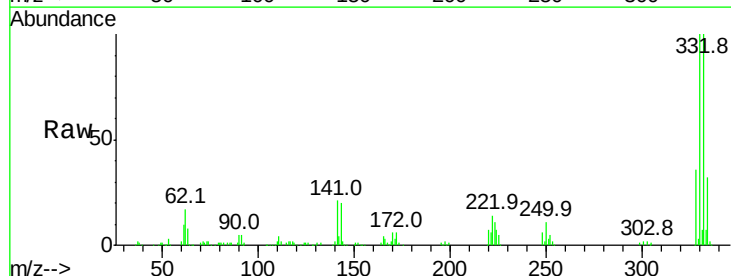
Instrument :  
BNA\_F  
ClientSampled :

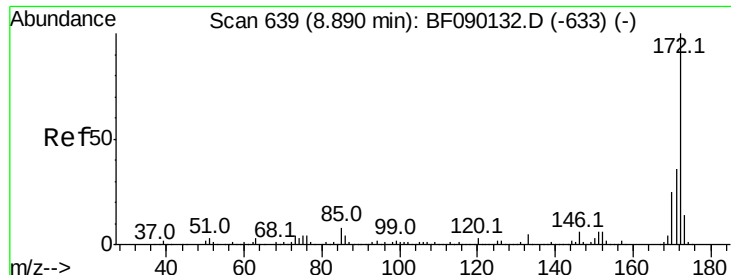
Tot Ion:164 Resp: 307700  
Ion Ratio Lower Upper  
164 100  
162 99.1 81.4 122.2  
160 43.8 36.6 54.8



#41  
2,4,6-Tribromophenol  
Concen: 113.10 ng  
RT: 10.30 min Scan# 762  
Delta R.T. -0.05 min  
Lab File: BF090220.D  
Acq: 26 Sep 2016 14:46

Tgt Ion:330 Resp: 298570  
Ion Ratio Lower Upper  
330 100  
332 98.9 78.1 117.1  
141 30.9 23.9 35.9



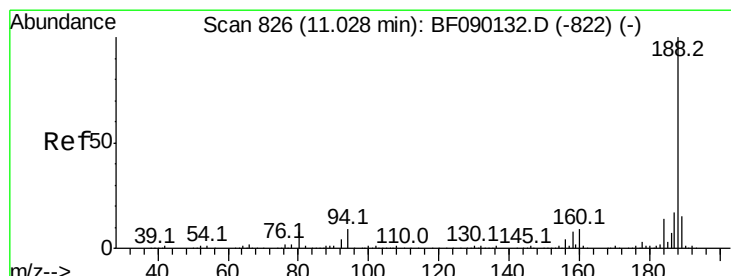
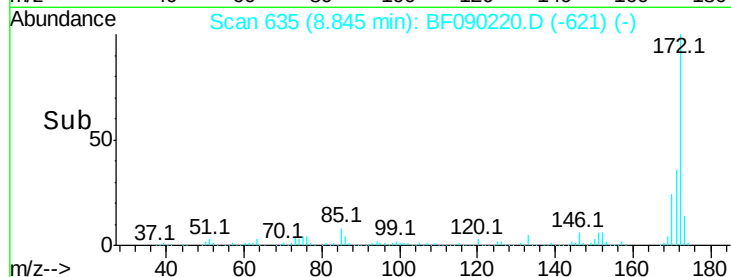
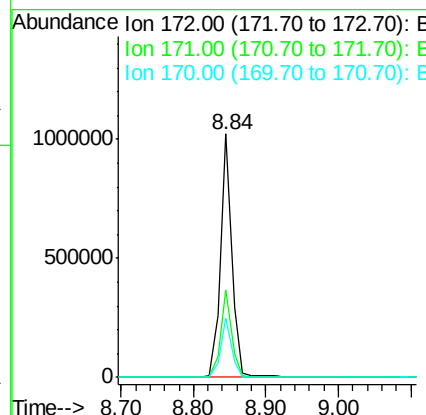
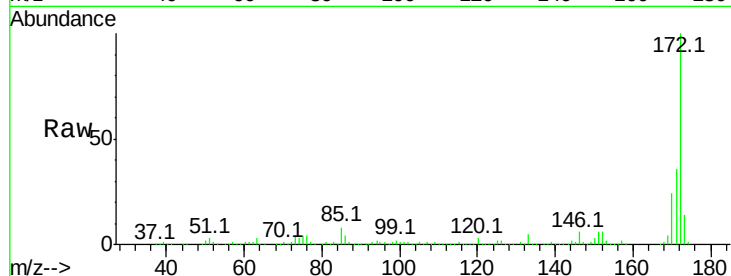


#44  
 2-Fluorobiphenyl  
 Concen: 72.04 ng  
 RT: 8.84 min Scan# 635  
 Delta R.T. -0.05 min  
 Lab File: BF090220.D  
 Acq: 26 Sep 2016 14:46

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:172 Resp: 1129196  

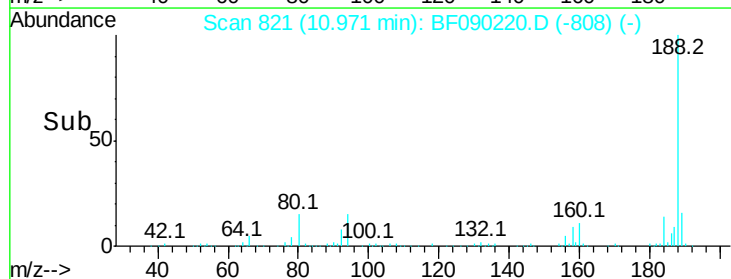
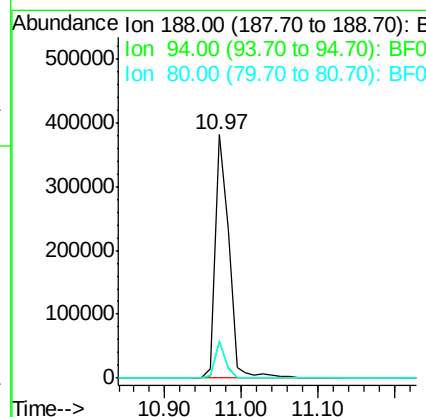
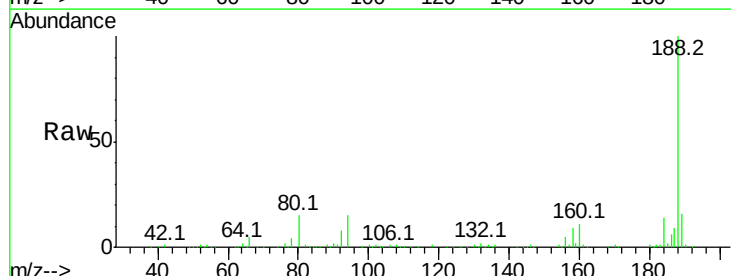
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 35.9  | 29.2  | 43.8  |
| 170 | 24.2  | 19.8  | 29.8  |

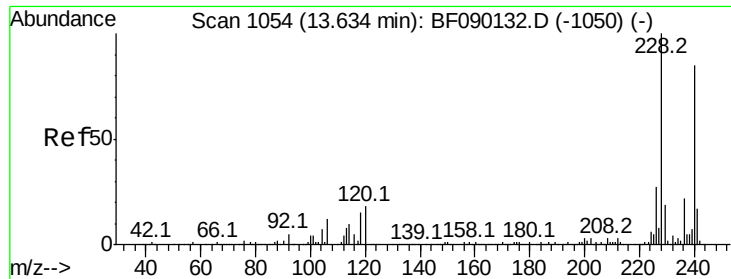


#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 10.97 min Scan# 821  
 Delta R.T. -0.06 min  
 Lab File: BF090220.D  
 Acq: 26 Sep 2016 14:46

Tgt Ion:188 Resp: 468071  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 188 | 100   |       |       |
| 94  | 14.7  | 10.5  | 15.7  |
| 80  | 15.5  | 11.2  | 16.8  |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.59 min Scan# 1050

Delta R.T. -0.05 min

Lab File: BF090220.D

Acq: 26 Sep 2016 14:46

Instrument :

BNA\_F

ClientSampled :

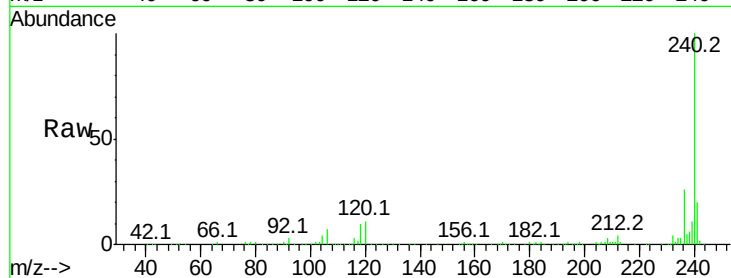
Tot Ion:240 Resp: 412477

Ion Ratio Lower Upper

240 100

120 11.1 10.6 16.0

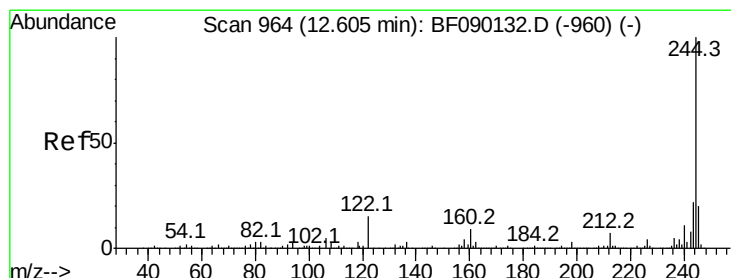
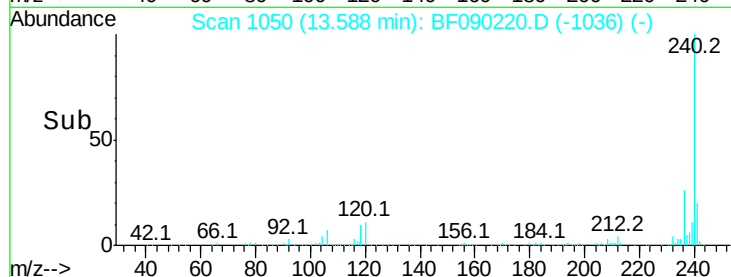
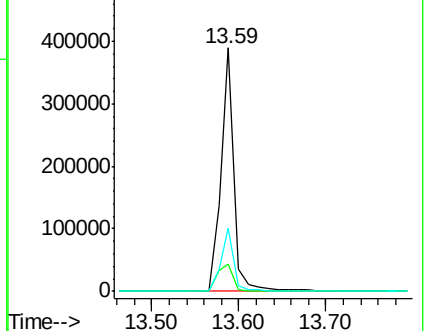
236 26.1 21.6 32.4



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: 65.69 ng

RT: 12.56 min Scan# 960

Delta R.T. -0.05 min

Lab File: BF090220.D

Acq: 26 Sep 2016 14:46

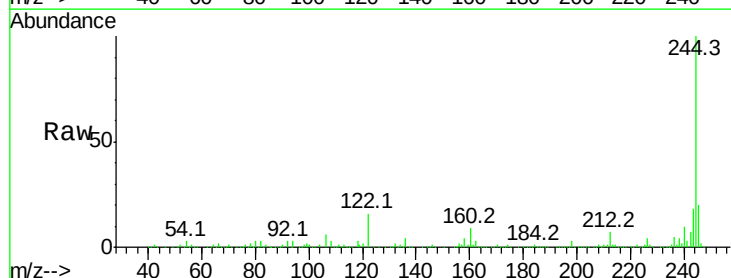
Tgt Ion:244 Resp: 1067277

Ion Ratio Lower Upper

244 100

212 7.3 5.8 8.8

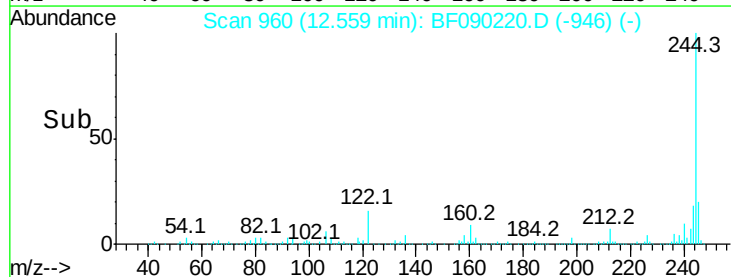
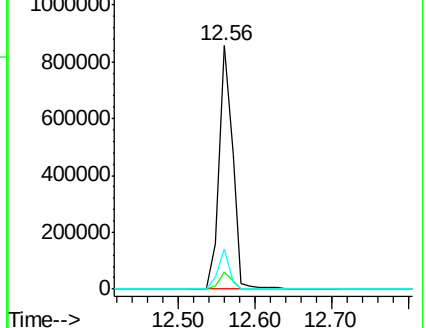
122 16.3 9.4 14.0#



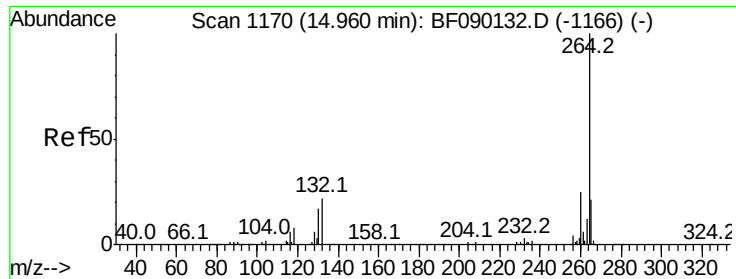
Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E







#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 14.90 min Scan# 1165  
Delta R.T. -0.06 min  
Lab File: BF090220.D  
Acq: 26 Sep 2016 14:46

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.5  | 19.5  | 29.3  |
| 265     | 21.6  | 17.0  | 25.4  |

