

Data Path : Z:\HPCHEM1\BNA F\Data\BF031117\  
 Data File : BF093568.D  
 Acq On : 11 Mar 2017 15:42  
 Operator : SJ/MA  
 Sample : PB97524BL  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Mar 13 15:35:13 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

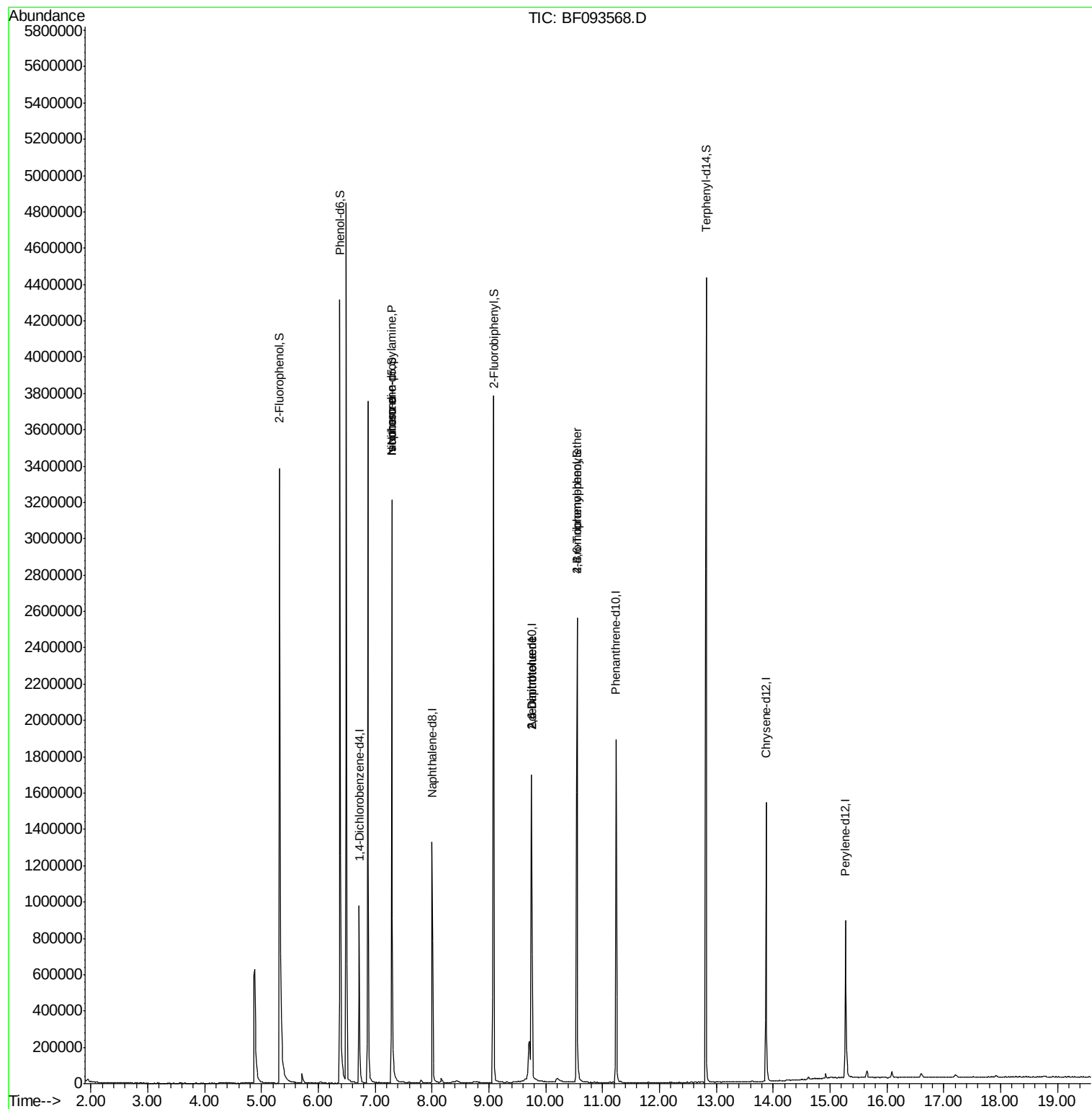
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.72  | 152  | 178256   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.00  | 136  | 740599   | 20.00     | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.75  | 164  | 349112   | 20.00     | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.24 | 188  | 672630   | 20.00     | ng    | -0.01    |
| 75) Chrysene-d12               | 13.88 | 240  | 556639   | 20.00     | ng    | -0.01    |
| 86) Perylene-d12               | 15.27 | 264  | 414687   | 20.00     | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.32  | 112  | 1494803  | 139.57    | ng    | 0.00     |
| 7) Phenol-d6                   | 6.38  | 99   | 1654764  | 122.52    | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.29  | 82   | 1119477  | 83.87     | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.55 | 330  | 331234   | 145.63    | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.09  | 172  | 1844322  | 98.26     | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.82 | 244  | 1632457  | 76.25     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.38  | 77   | 1995     | Below Cal | #     | 1        |
| 19) n-Nitroso-di-n-propylamine | 7.29  | 70   | 151077   | 16.27     | ng    | # 83     |
| 25) Isophorone                 | 7.29  | 82   | 1119867  | 41.61     | ng    | # 65     |
| 50) 2,6-Dinitrotoluene         | 9.75  | 165  | 43469    | 8.56      | ng    | # 32     |
| 56) 2,4-Dinitrotoluene         | 9.75  | 165  | 43472    | 6.97      | ng    | # 21     |
| 66) 4-Bromophenyl-phenylether  | 10.55 | 248  | 25476    | 3.58      | ng    | # 1      |

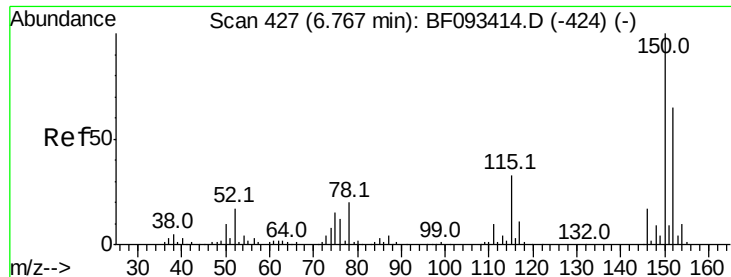
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\Data\BF031117\  
Data File : BF093568.D  
Acq On : 11 Mar 2017 15:42  
Operator : SJ/MA  
Sample : PB97524BL  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Mar 13 15:35:13 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



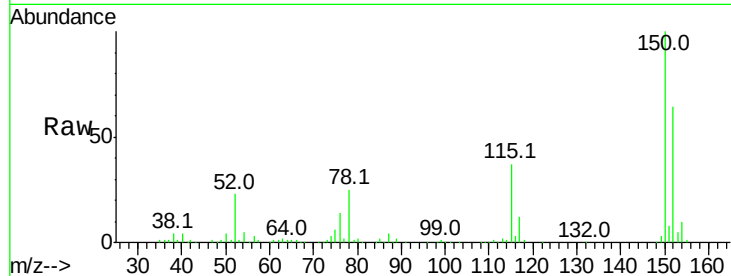


#1

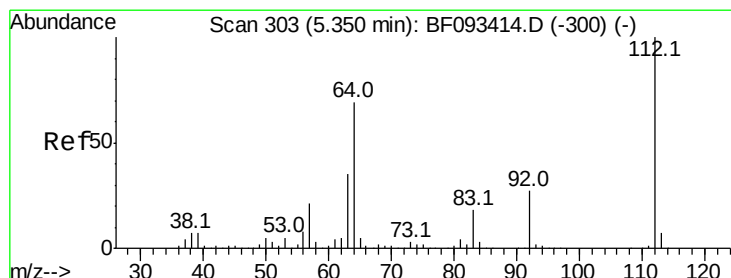
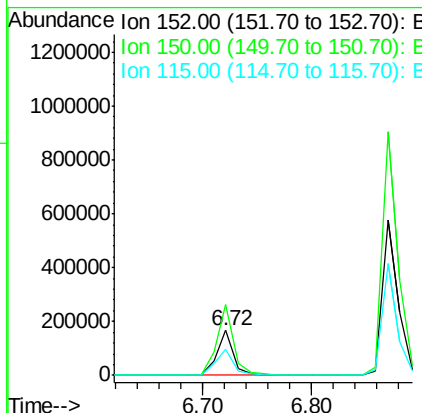
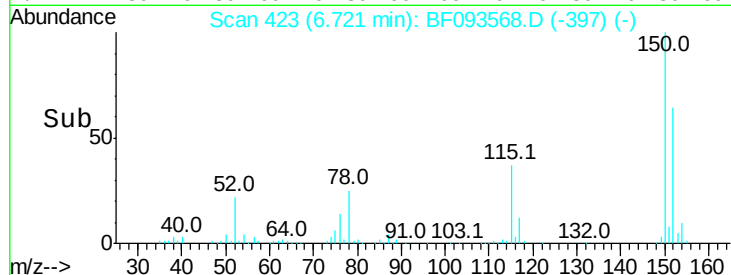
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.72 min Scan# 423  
Delta R.T. -0.00 min  
Lab File: BF093568.D  
Acq: 11 Mar 2017 15:42

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 178256  
Ion Ratio Lower Upper  
152 100  
150 157.2 124.9 187.3  
115 57.6 46.0 69.0



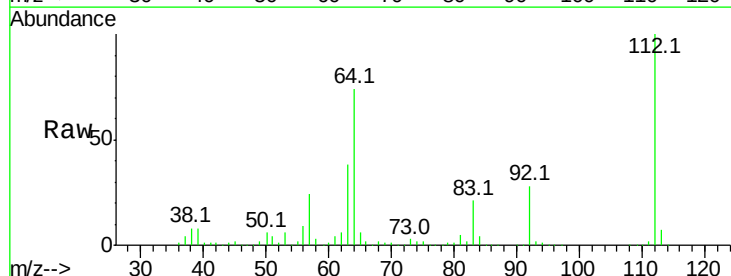
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



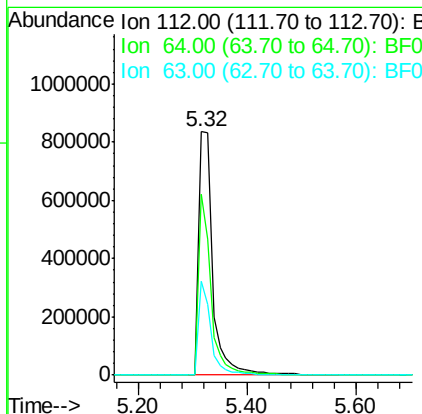
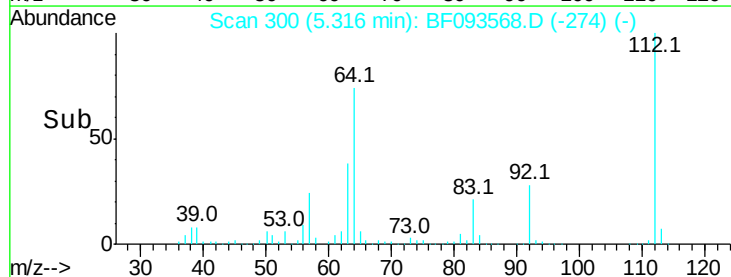
#5

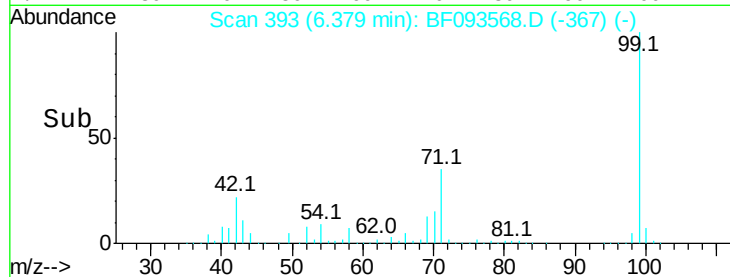
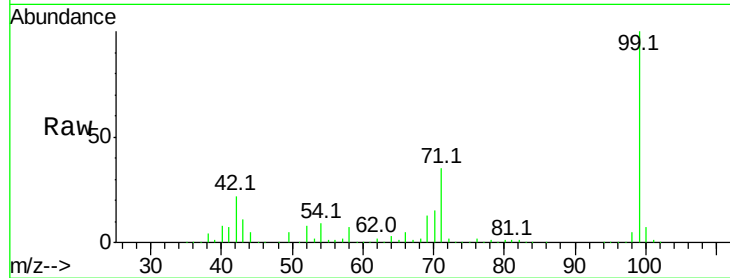
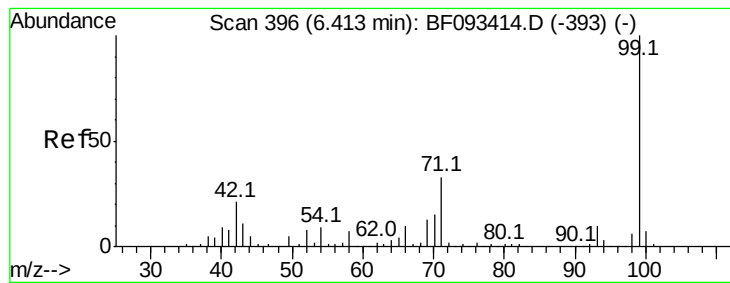
2-Fluorophenol  
Concen: 139.57 ng  
RT: 5.32 min Scan# 300  
Delta R.T. -0.00 min  
Lab File: BF093568.D  
Acq: 11 Mar 2017 15:42

Tgt Ion:112 Resp: 1494803  
Ion Ratio Lower Upper  
112 100  
64 74.5 46.1 69.1#  
63 38.5 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: 122.52 ng

RT: 6.38 min Scan# 393

Delta R.T. -0.00 min

Lab File: BF093568.D

Acq: 11 Mar 2017 15:42

Instrument :

BNA\_F

ClientSampleId :

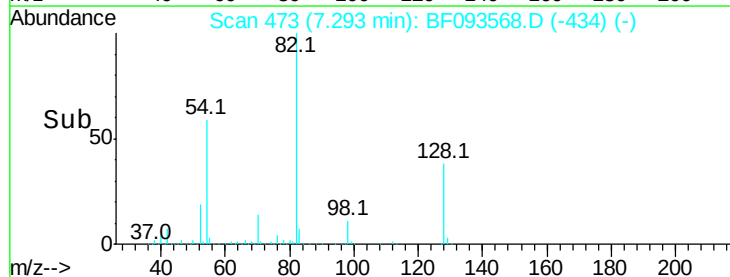
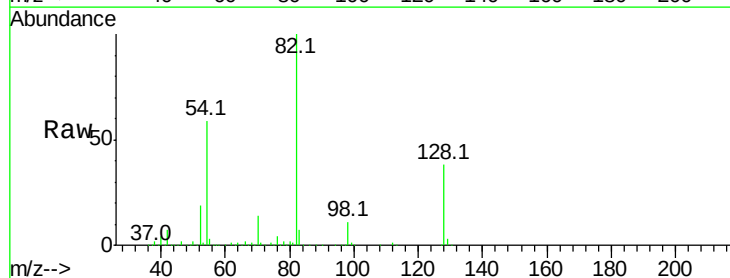
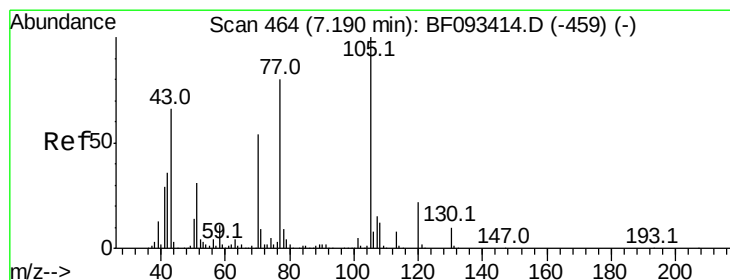
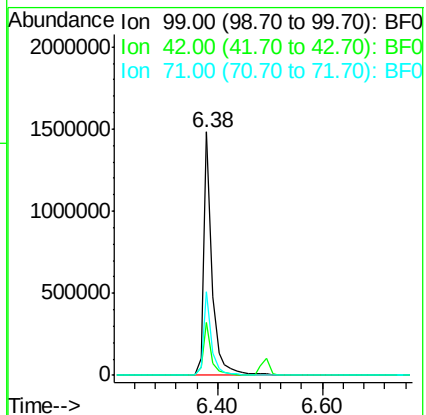
Tot Ion: 99 Resp: 1654764

Ion Ratio Lower Upper

99 100

42 21.5 15.6 23.4

71 34.6 27.5 41.3



#19

n-Nitroso-di-n-propylamine

Concen: 16.27 ng

RT: 7.29 min Scan# 473

Delta R.T. 0.15 min

Lab File: BF093568.D

Acq: 11 Mar 2017 15:42

Tgt Ion: 70 Resp: 151077

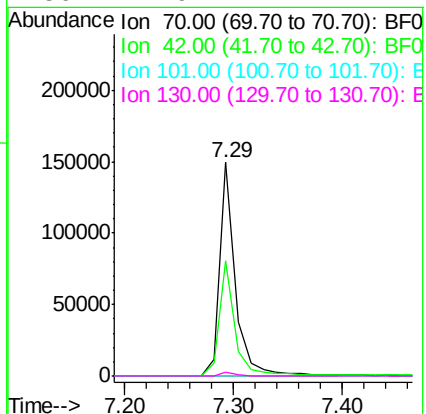
Ion Ratio Lower Upper

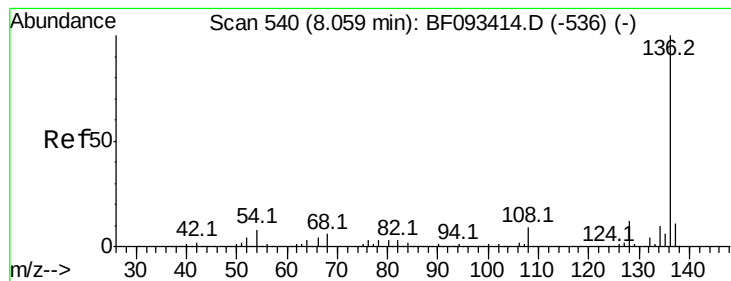
70 100

42 53.9 49.4 74.0

101 0.0 7.4 11.2#

130 1.9 14.2 21.4#

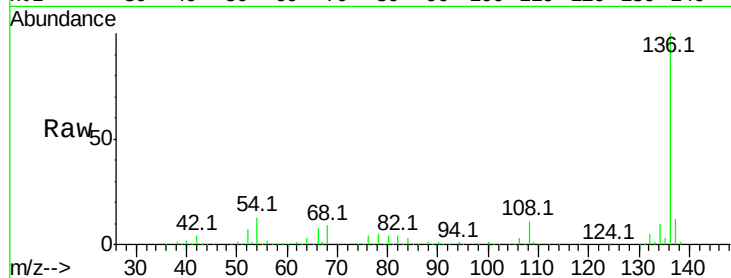




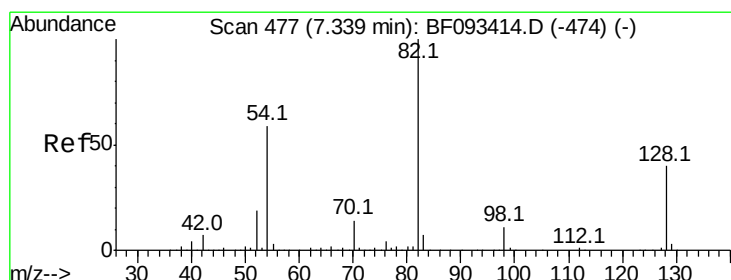
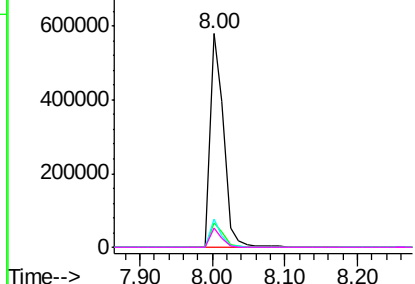
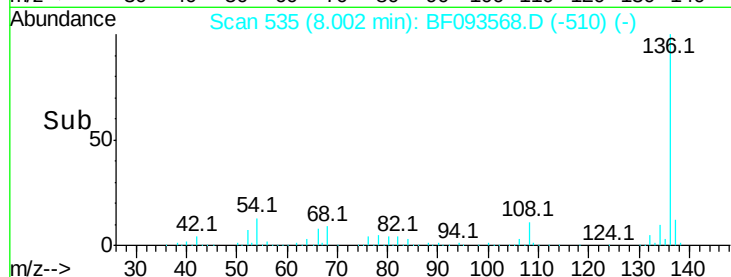
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.00 min Scan# 535  
Delta R.T. -0.01 min  
Lab File: BF093568.D  
Acq: 11 Mar 2017 15:42

Instrument :  
BNA\_F  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 740599 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.7  | 8.4   | 12.6   |
| 54       | 13.2  | 4.5   | 6.7#   |
| 68       | 9.3   | 3.6   | 5.4#   |

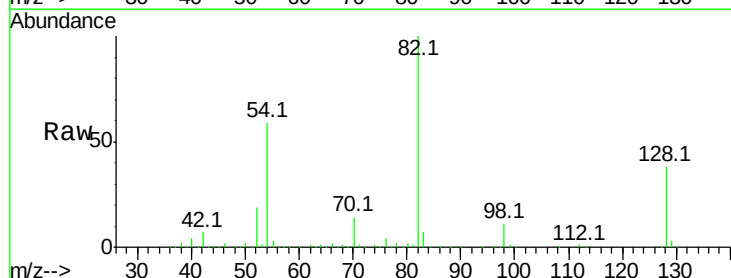


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

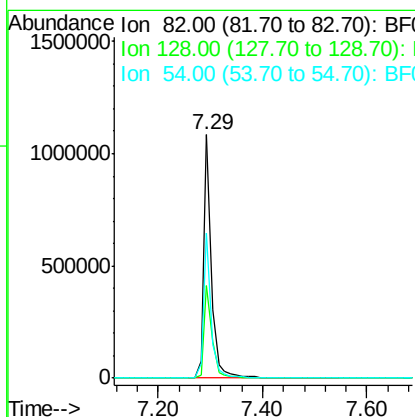
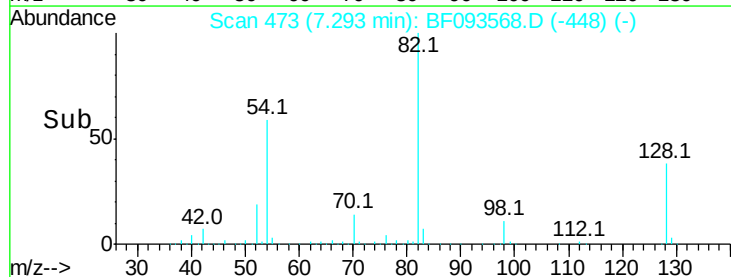


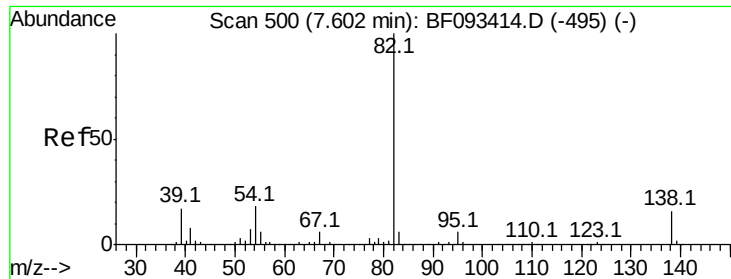
#23  
Nitrobenzene-d5  
Concen: 83.87 ng  
RT: 7.29 min Scan# 473  
Delta R.T. -0.01 min  
Lab File: BF093568.D  
Acq: 11 Mar 2017 15:42

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 82    | Resp: | 1119477 |
| Ion      | Ratio | Lower | Upper   |
| 82       | 100   |       |         |
| 128      | 38.2  | 34.6  | 52.0    |
| 54       | 59.3  | 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





#25

Isophorone

Concen: 41.61 ng

RT: 7.29 min Scan# 473

Delta R.T. -0.26 min

Lab File: BF093568.D

Acq: 11 Mar 2017 15:42

Instrument :

BNA\_F

ClientSampled :

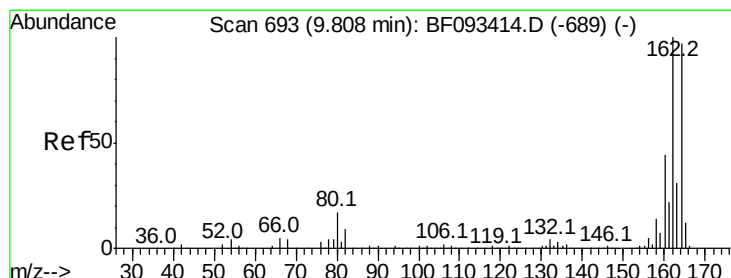
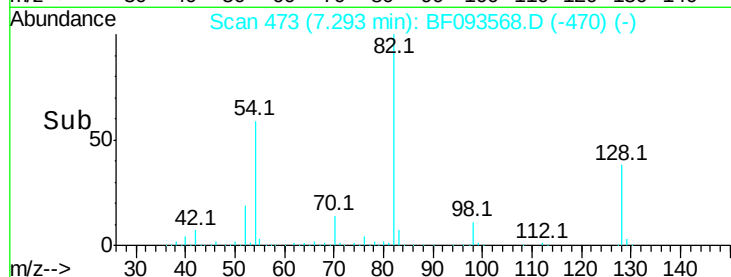
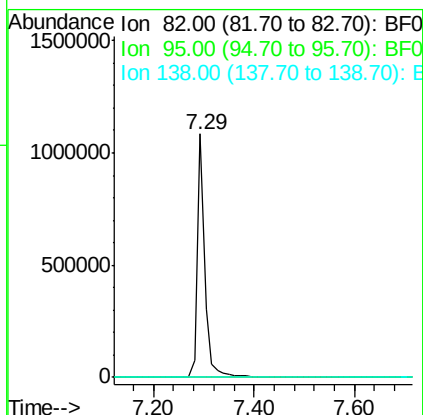
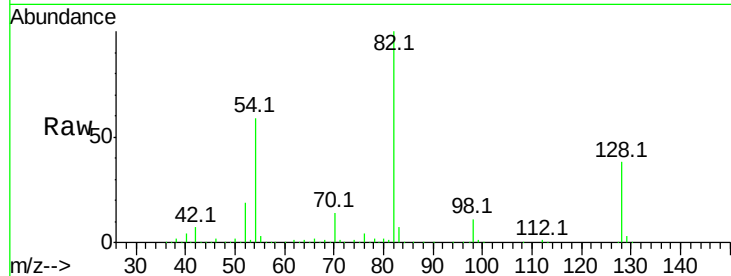
Tot Ion: 82 Resp: 1119867

Ion Ratio Lower Upper

82 100

95 0.0 5.6 8.4#

138 0.0 14.6 22.0#



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.75 min Scan# 688

Delta R.T. -0.01 min

Lab File: BF093568.D

Acq: 11 Mar 2017 15:42

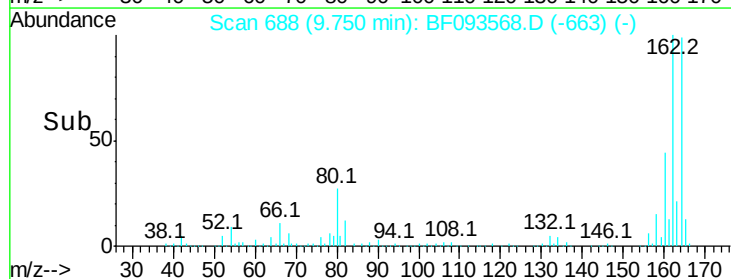
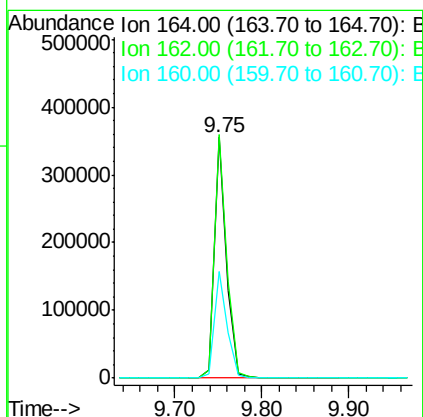
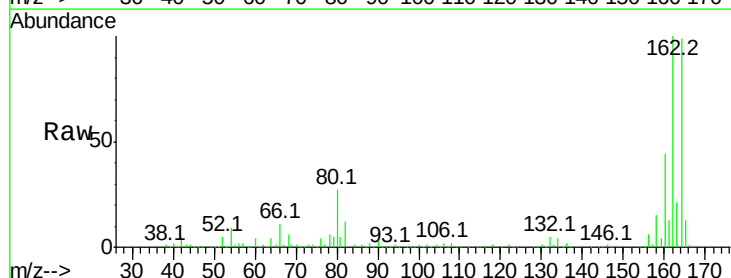
Tgt Ion: 164 Resp: 349112

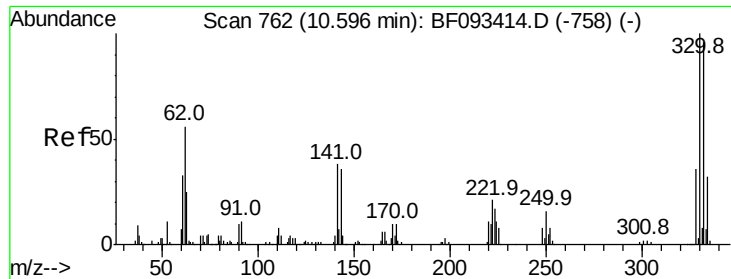
Ion Ratio Lower Upper

164 100

162 101.0 80.2 120.2

160 44.3 36.9 55.3

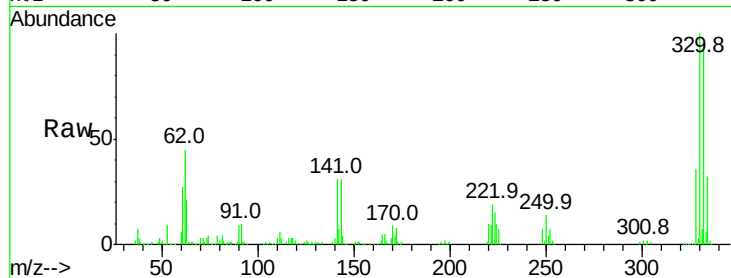




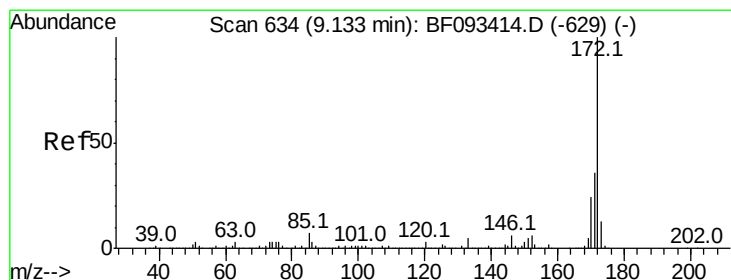
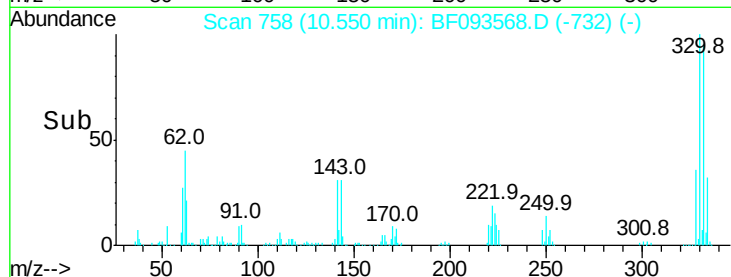
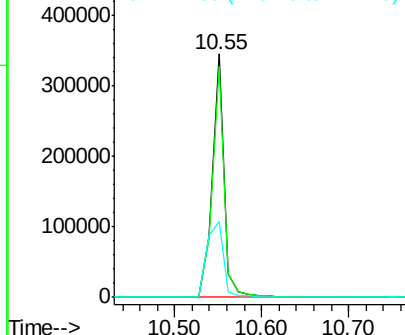
#41  
 2,4,6-Tribromophenol  
 Concen: 145.63 ng  
 RT: 10.55 min Scan# 758  
 Delta R.T. -0.00 min  
 Lab File: BF093568.D  
 Acq: 11 Mar 2017 15:42

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.8  | 77.4  | 116.2 |
| 141     | 44.3  | 34.1  | 51.1  |

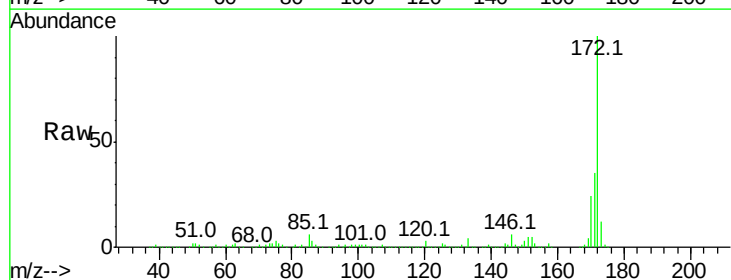


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

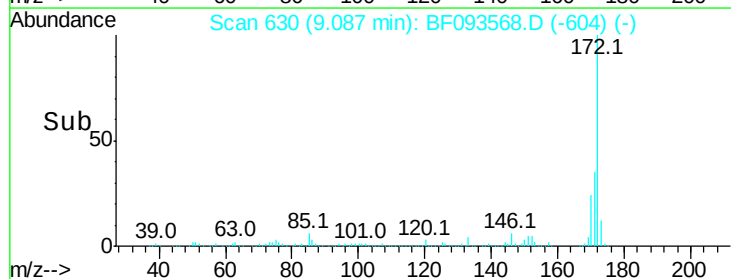
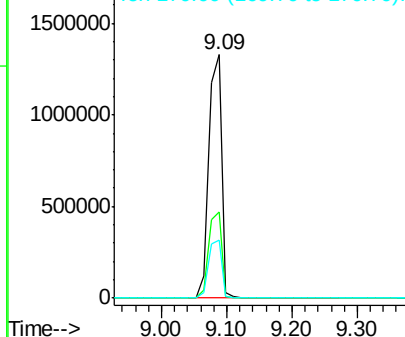


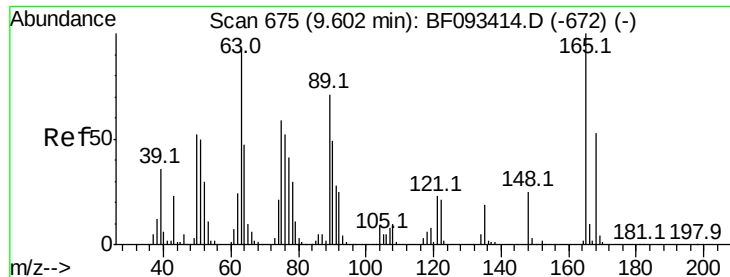
#44  
 2-Fluorobiphenyl  
 Concen: 98.26 ng  
 RT: 9.09 min Scan# 630  
 Delta R.T. -0.00 min  
 Lab File: BF093568.D  
 Acq: 11 Mar 2017 15:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.5  | 29.4  | 44.0  |
| 170     | 24.0  | 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

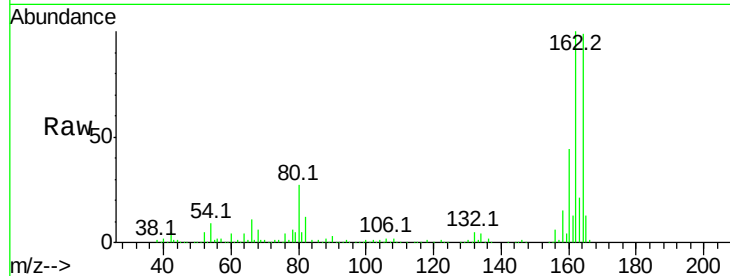




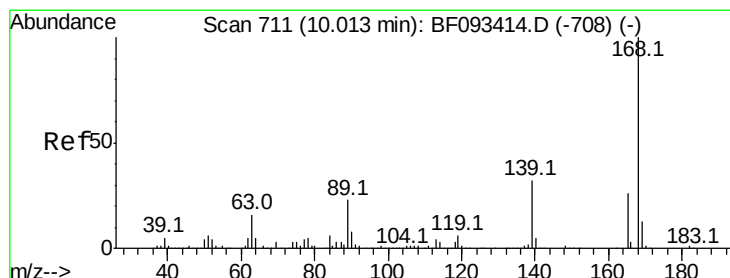
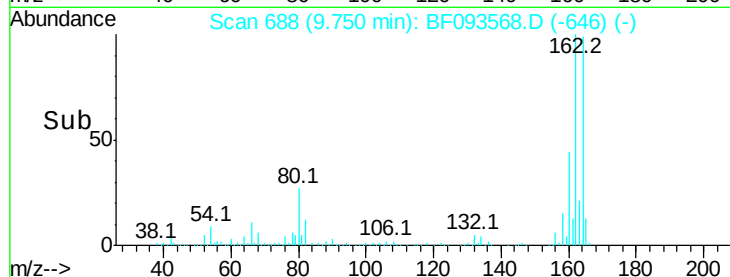
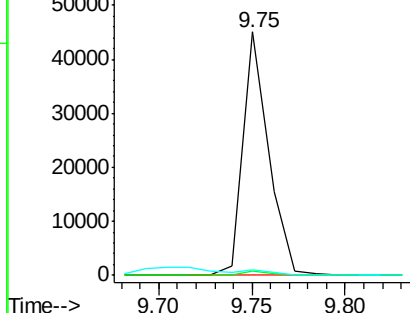
#50  
2,6-Dinitrotoluene  
Concen: 8.56 ng  
RT: 9.75 min Scan# 688  
Delta R.T. 0.18 min  
Lab File: BF093568.D  
Acq: 11 Mar 2017 15:42

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:165 Resp: 43469  
Ion Ratio Lower Upper  
165 100  
63 1.6 36.2 54.4#  
89 2.1 40.2 60.4#

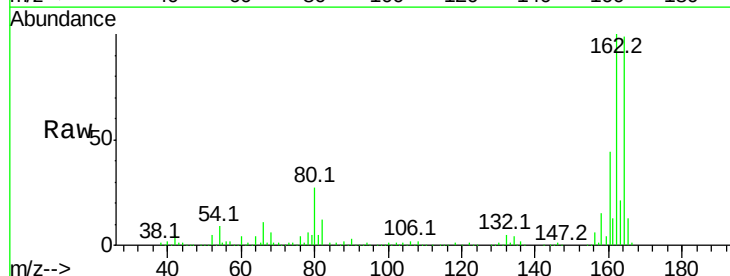


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF0  
Ion 89.00 (88.70 to 89.70): BF0

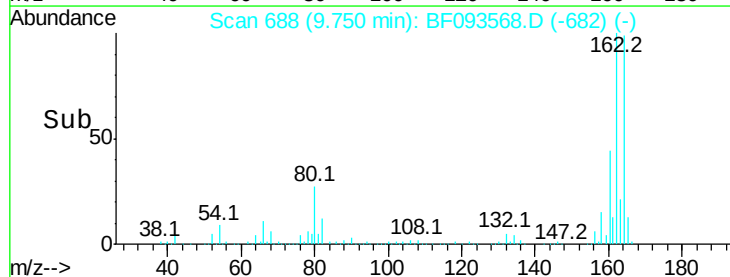
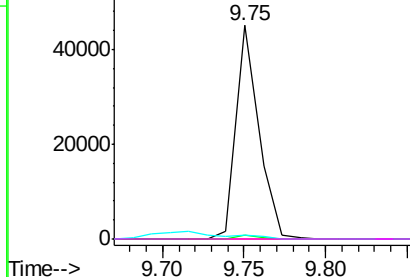


#56  
2,4-Dinitrotoluene  
Concen: 6.97 ng  
RT: 9.75 min Scan# 688  
Delta R.T. -0.23 min  
Lab File: BF093568.D  
Acq: 11 Mar 2017 15:42

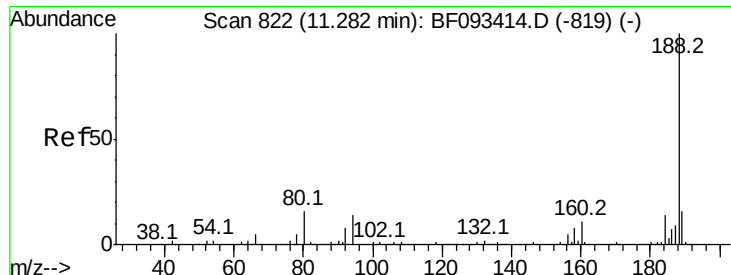
Tgt Ion:165 Resp: 43472  
Ion Ratio Lower Upper  
165 100  
63 1.6 40.2 60.4#  
89 2.1 62.5 93.7#  
182 0.0 1.8 2.8#



Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF0  
Ion 89.00 (88.70 to 89.70): BF0  
Ion 182.00 (181.70 to 182.70): E



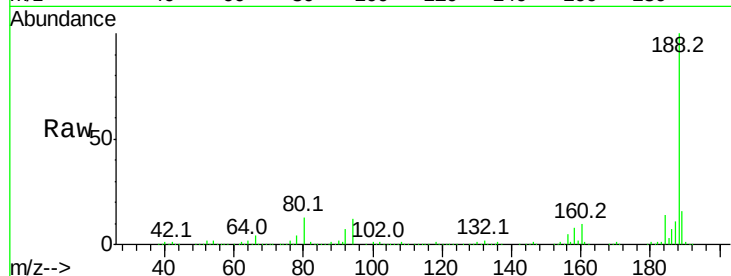




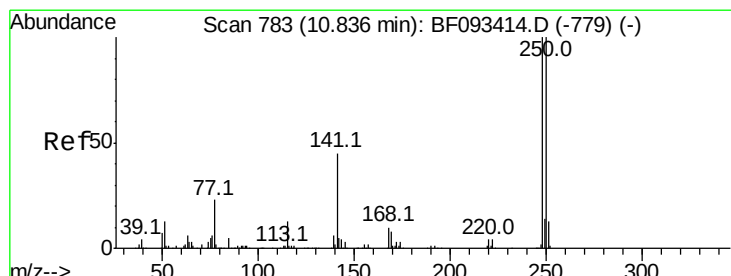
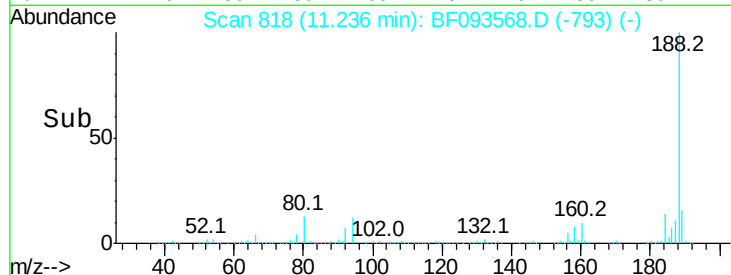
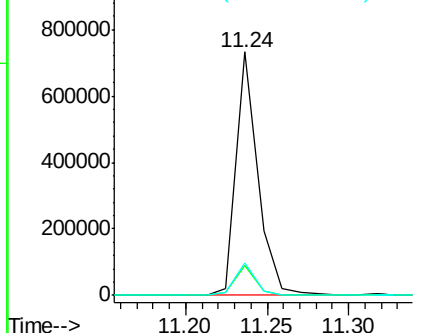
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.24 min Scan# 818  
 Delta R.T. -0.01 min  
 Lab File: BF093568.D  
 Acq: 11 Mar 2017 15:42

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 12.2  | 10.0  | 15.0  |
| 80      | 13.2  | 11.2  | 16.8  |

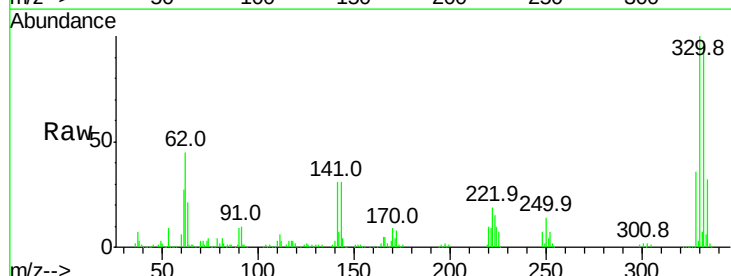


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

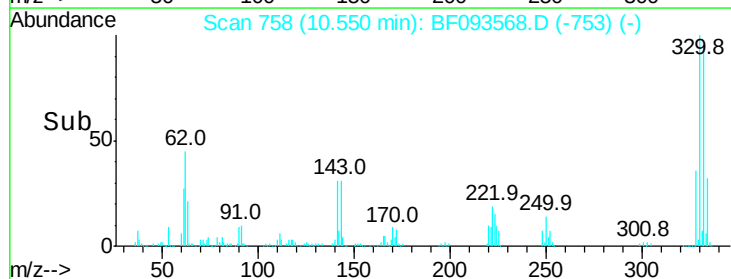
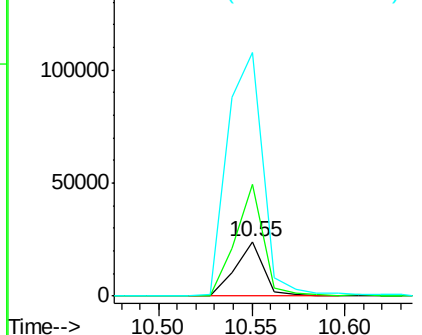


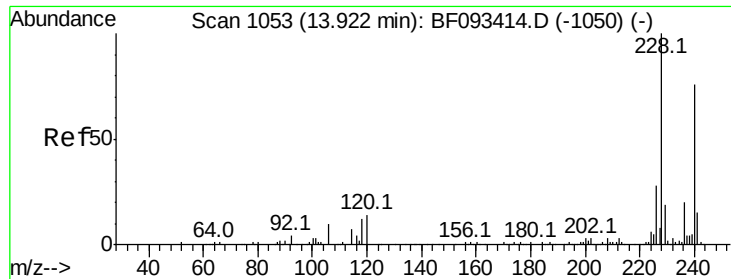
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.58 ng  
 RT: 10.55 min Scan# 758  
 Delta R.T. -0.24 min  
 Lab File: BF093568.D  
 Acq: 11 Mar 2017 15:42

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 205.7 | 76.9  | 115.3# |
| 141     | 448.8 | 68.2  | 102.4# |



Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

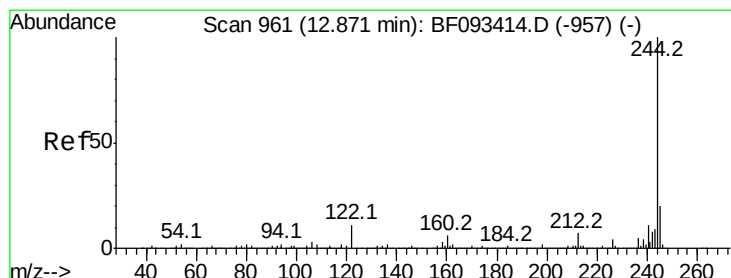
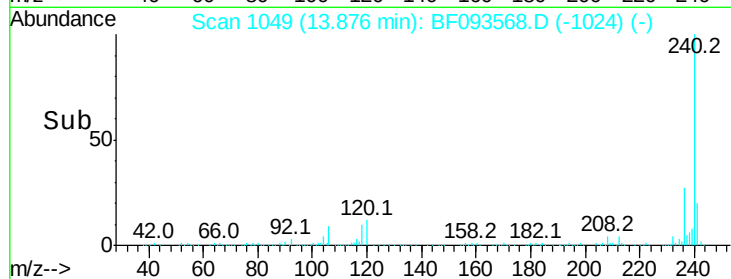
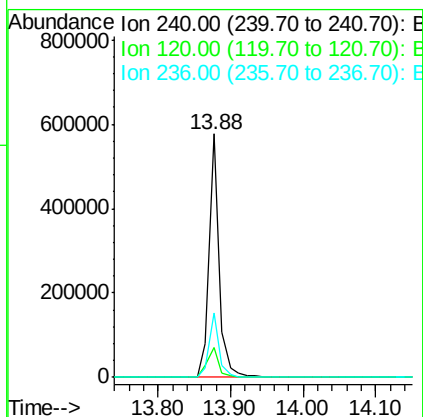
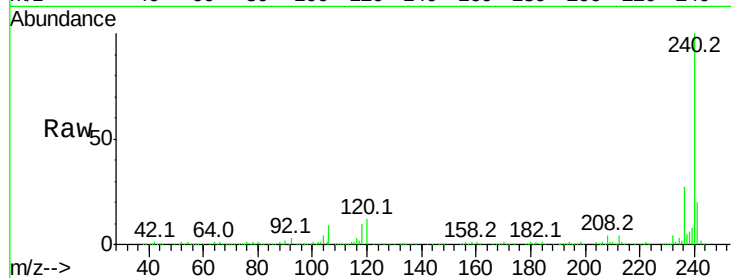




#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 13.88 min Scan# 1049  
 Delta R.T. -0.01 min  
 Lab File: BF093568.D  
 Acq: 11 Mar 2017 15:42

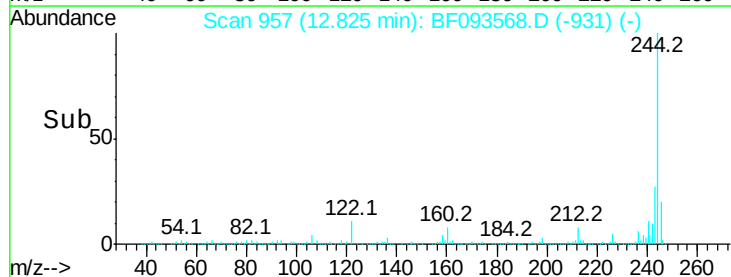
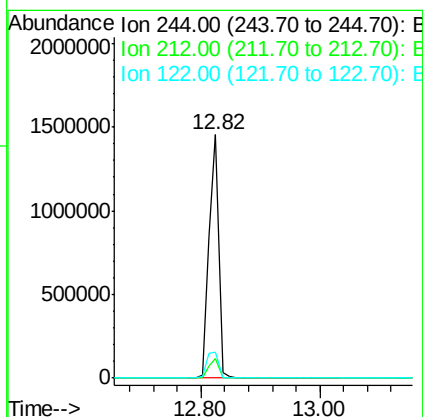
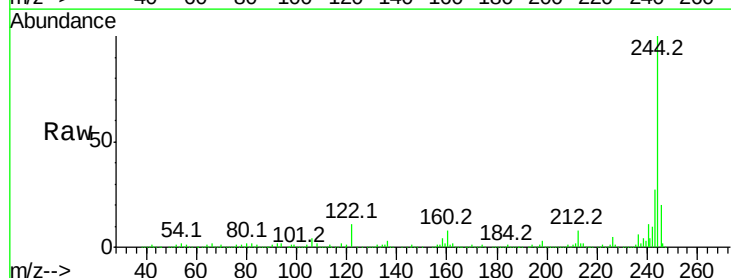
Instrument :  
 BNA\_F  
 ClientSampleId :

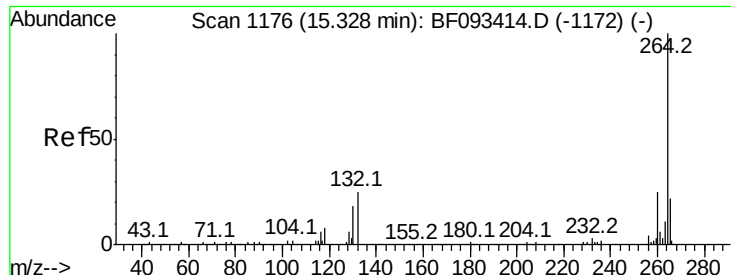
Tot Ion:240 Resp: 556639  
 Ion Ratio Lower Upper  
 240 100  
 120 12.0 12.9 19.3#  
 236 26.5 20.9 31.3



#78  
 Terphenyl-d14  
 Concen: 76.25 ng  
 RT: 12.82 min Scan# 957  
 Delta R.T. -0.00 min  
 Lab File: BF093568.D  
 Acq: 11 Mar 2017 15:42

Tgt Ion:244 Resp: 1632457  
 Ion Ratio Lower Upper  
 244 100  
 212 7.8 6.2 9.2  
 122 10.7 11.4 17.2#

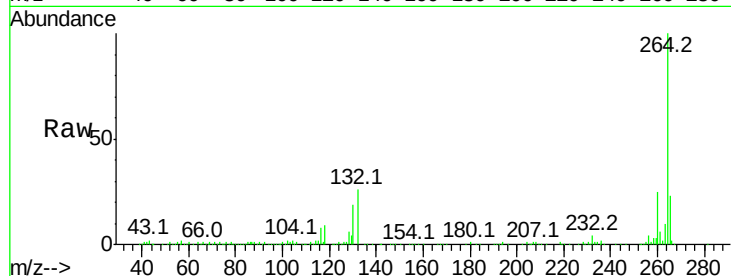




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.27 min Scan# 1171  
Delta R.T. -0.01 min  
Lab File: BF093568.D  
Acq: 11 Mar 2017 15:42

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:264 Resp: 414687  
Ion Ratio Lower Upper  
264 100  
260 24.9 19.2 28.8  
265 22.6 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

