

Data Path : Z:\HPCHEM1\BNA F\DATA\BF030817\  
 Data File : BF093469.D  
 Acq On : 9 Mar 2017 11:16  
 Operator : SJ/MA  
 Sample : I2127-30  
 Misc :  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Mar 09 11:43:43 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Mar 07 15:55:22 2017  
 Response via : Initial Calibration

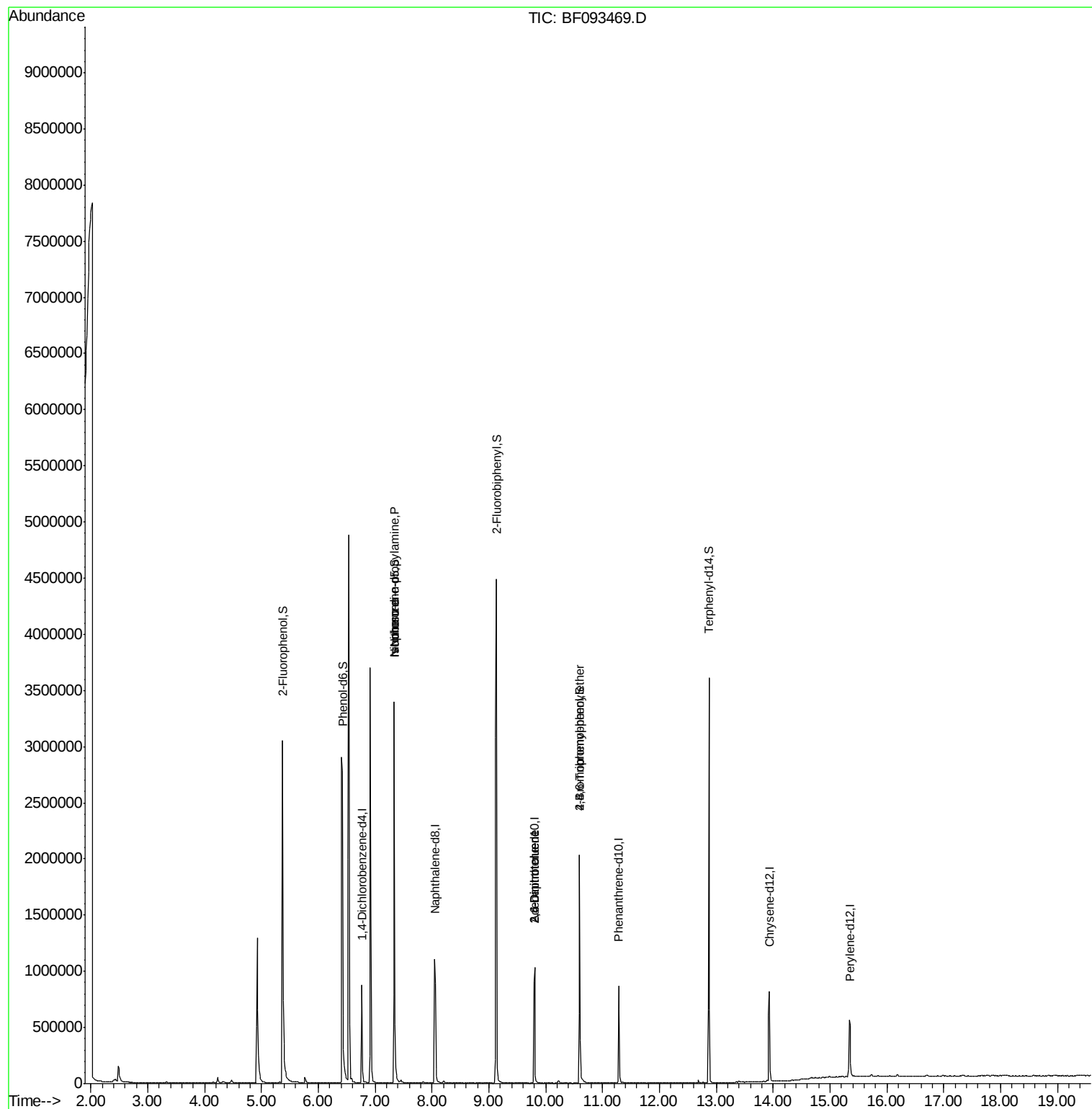
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.77  | 152  | 183276   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.05  | 136  | 709175   | 20.00     | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.81  | 164  | 293548   | 20.00     | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.28 | 188  | 441506   | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12               | 13.93 | 240  | 379385   | 20.00     | ng    | 0.01     |
| 86) Perylene-d12               | 15.35 | 264  | 282433   | 20.00     | ng    | 0.02     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.37  | 112  | 1441933  | 130.94    | ng    | 0.02     |
| 7) Phenol-d6                   | 6.42  | 99   | 1752808  | 126.22    | ng    | 0.01     |
| 23) Nitrobenzene-d5            | 7.34  | 82   | 1150820  | 90.04     | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.60 | 330  | 240638   | 125.82    | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.13  | 172  | 1858978  | 117.79    | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.87 | 244  | 1072322  | 73.49     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.41  | 77   | 2482     | Below Cal | #     | 1        |
| 19) n-Nitroso-di-n-propylamine | 7.34  | 70   | 157305   | 16.48     | ng    | 82       |
| 25) Isophorone                 | 7.34  | 82   | 1150790  | 44.65     | ng    | 65       |
| 50) 2,6-Dinitrotoluene         | 9.81  | 165  | 38250    | 8.96      | ng    | 31       |
| 56) 2,4-Dinitrotoluene         | 9.81  | 165  | 38251    | 7.29      | ng    | 20       |
| 66) 4-Bromophenyl-phenylether  | 10.60 | 248  | 17708    | 3.79      | ng    | 1        |

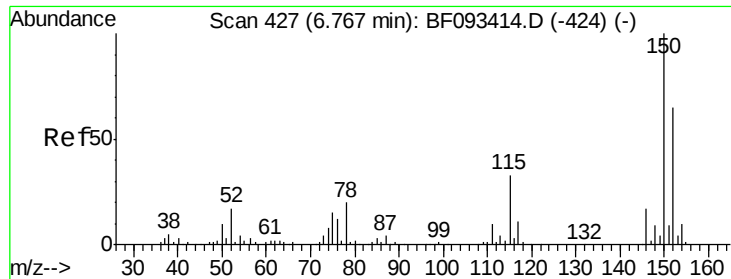
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF030817\  
Data File : BF093469.D  
Acq On : 9 Mar 2017 11:16  
Operator : SJ/MA  
Sample : I2127-30  
Misc :  
ALS Vial : 39 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Mar 09 11:43:43 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Mar 07 15:55:22 2017  
Response via : Initial Calibration



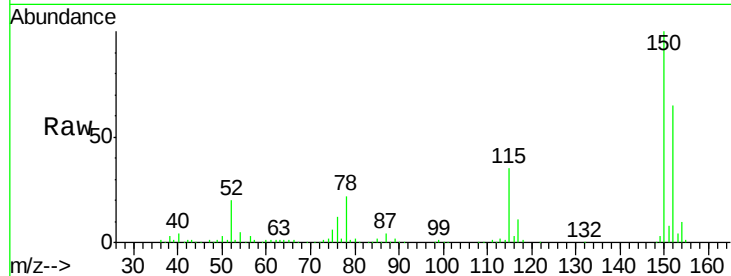


#1

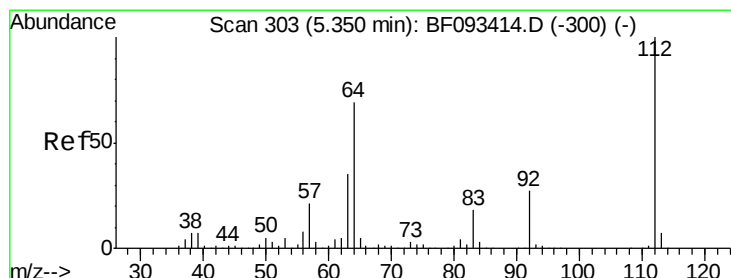
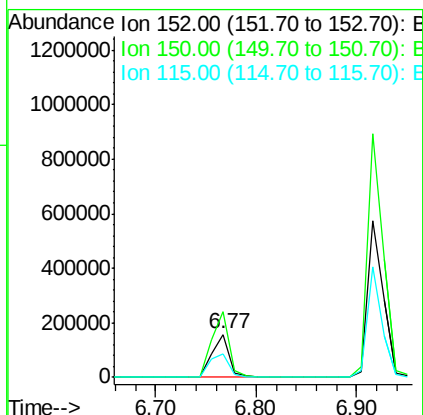
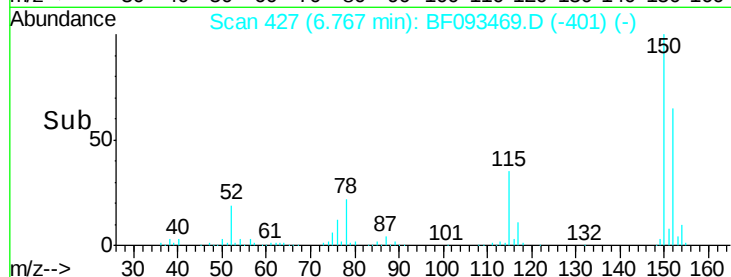
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.77 min Scan# 427  
Delta R.T. -0.00 min  
Lab File: BF093469.D  
Acq: 9 Mar 2017 11:16

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 183276  
Ion Ratio Lower Upper  
152 100  
150 153.9 124.9 187.3  
115 54.1 46.0 69.0



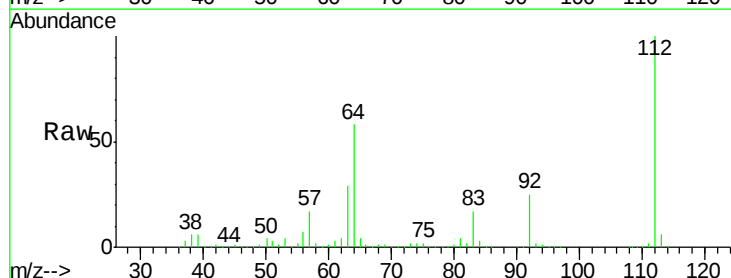
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



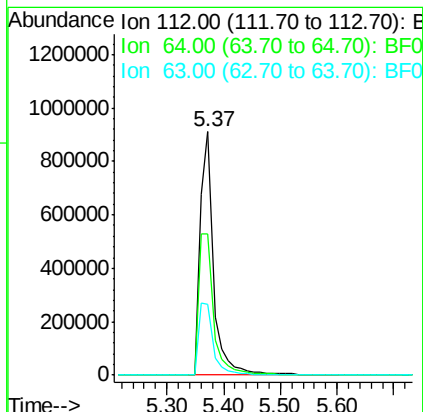
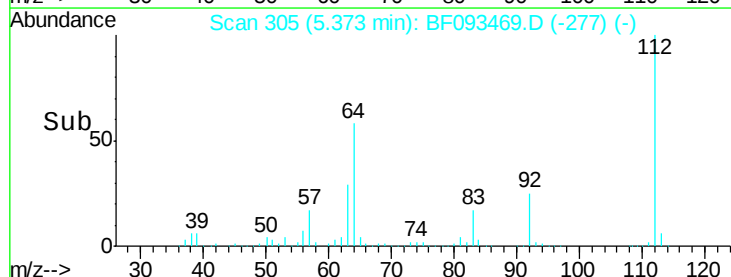
#5

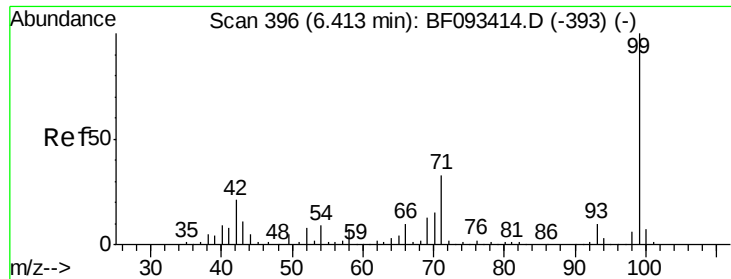
2-Fluorophenol  
Concen: 130.94 ng  
RT: 5.37 min Scan# 305  
Delta R.T. 0.02 min  
Lab File: BF093469.D  
Acq: 9 Mar 2017 11:16

Tgt Ion:112 Resp: 1441933  
Ion Ratio Lower Upper  
112 100  
64 58.2 46.1 69.1  
63 29.3 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: 126.22 ng

RT: 6.42 min Scan# 397

Delta R.T. 0.01 min

Lab File: BF093469.D

Acq: 9 Mar 2017 11:16

Instrument :

BNA\_F

ClientSampled :

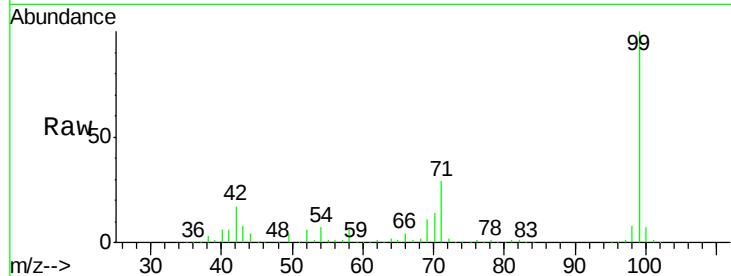
Tot Ion: 99 Resp: 1752808

Ion Ratio Lower Upper

99 100

42 16.6 15.6 23.4

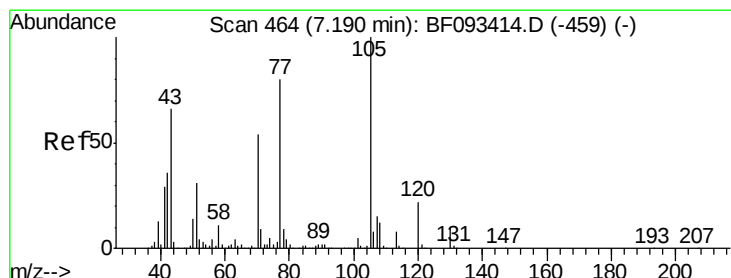
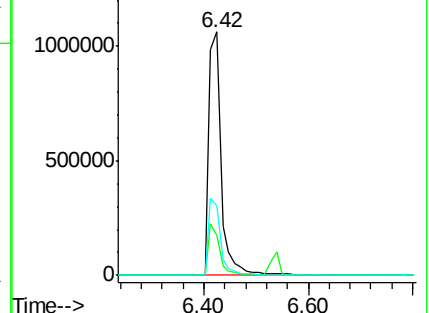
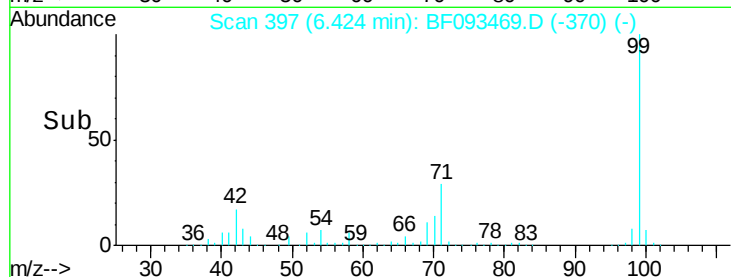
71 28.6 27.5 41.3



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



#19

n-Nitroso-di-n-propylamine

Concen: 16.48 ng

RT: 7.34 min Scan# 477

Delta R.T. 0.15 min

Lab File: BF093469.D

Acq: 9 Mar 2017 11:16

Tgt Ion: 70 Resp: 157305

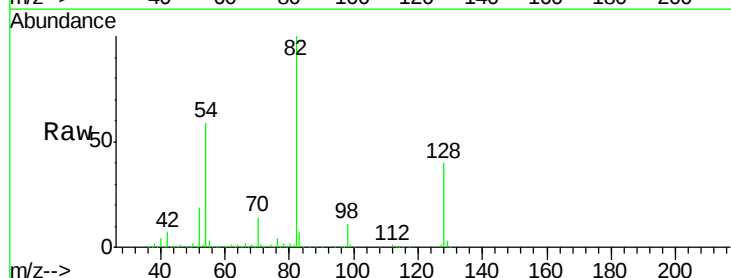
Ion Ratio Lower Upper

70 100

42 53.2 49.4 74.0

101 0.0 7.4 11.2#

130 2.1 14.2 21.4#

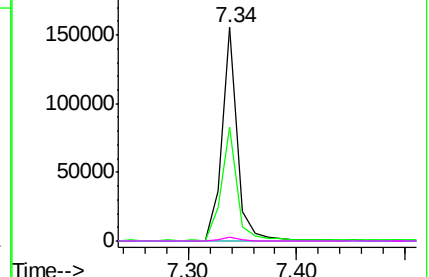
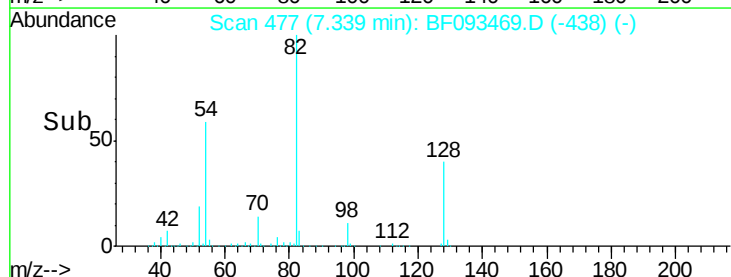


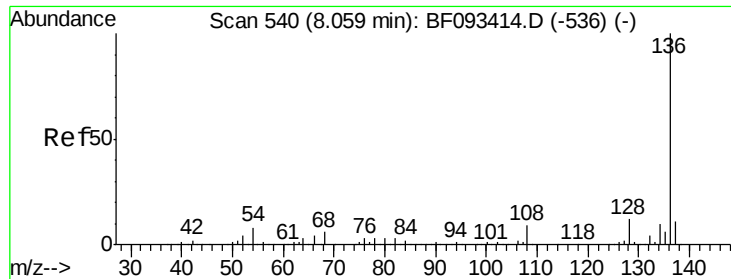
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

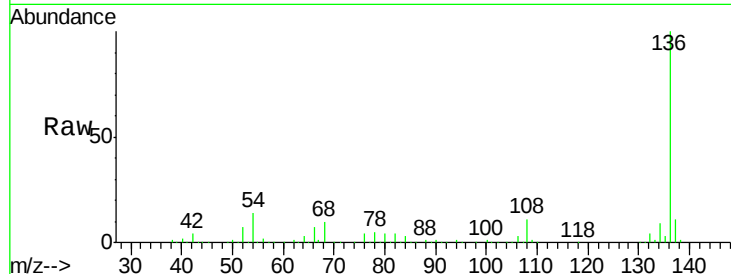




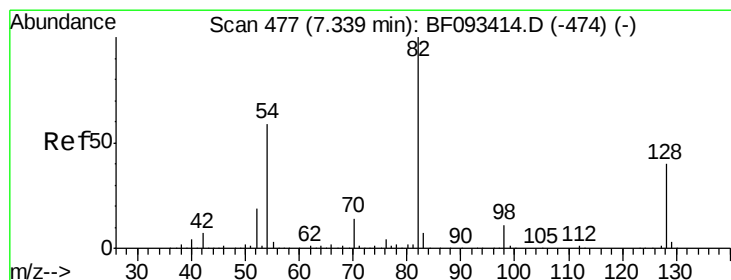
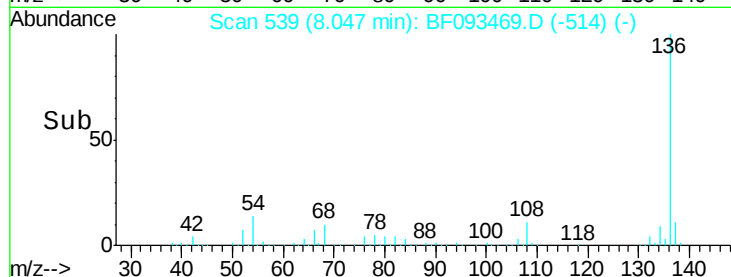
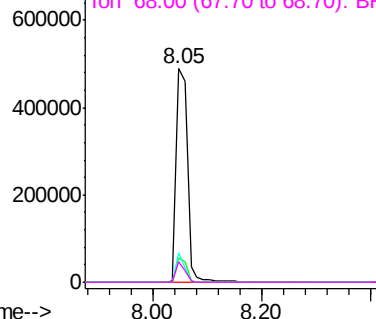
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.05 min Scan# 539  
Delta R.T. -0.01 min  
Lab File: BF093469.D  
Acq: 9 Mar 2017 11:16

Instrument :  
BNA\_F  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 709175 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.2  | 8.4   | 12.6   |
| 54       | 13.8  | 4.5   | 6.7#   |
| 68       | 9.6   | 3.6   | 5.4#   |

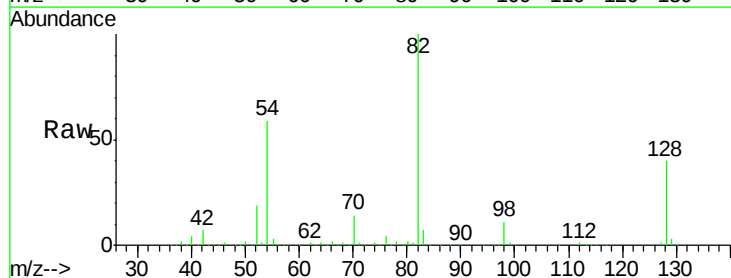


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

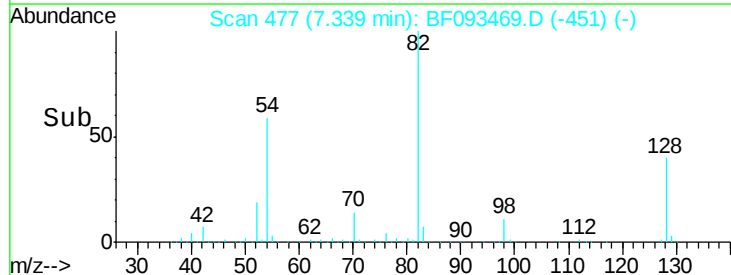
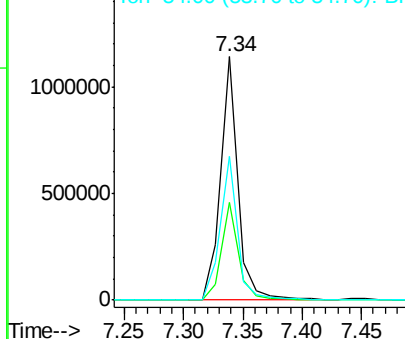


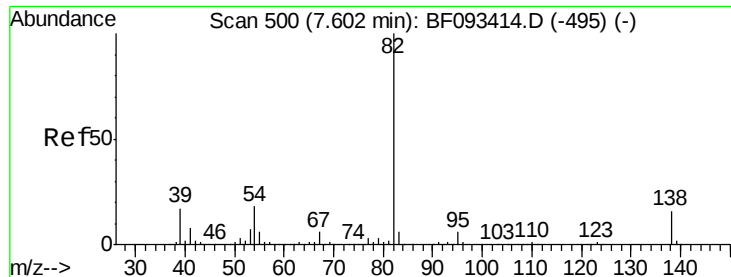
#23  
Nitrobenzene-d5  
Concen: 90.04 ng  
RT: 7.34 min Scan# 477  
Delta R.T. -0.00 min  
Lab File: BF093469.D  
Acq: 9 Mar 2017 11:16

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 82    | Resp: | 1150820 |
| Ion      | Ratio | Lower | Upper   |
| 82       | 100   |       |         |
| 128      | 40.4  | 34.6  | 52.0    |
| 54       | 59.0  | 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: 44.65 ng

RT: 7.34 min Scan# 477

Delta R.T. -0.26 min

Lab File: BF093469.D

Acq: 9 Mar 2017 11:16

Instrument :

BNA\_F

ClientSampleId :

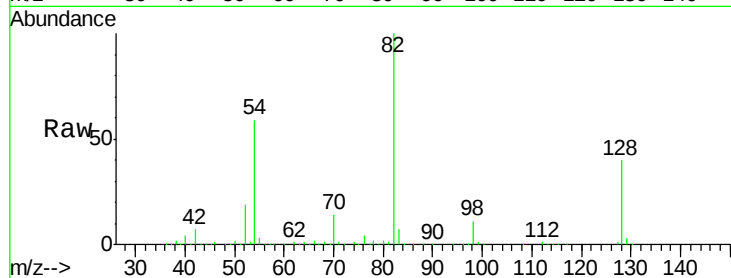
Tot Ion: 82 Resp: 1150790

Ion Ratio Lower Upper

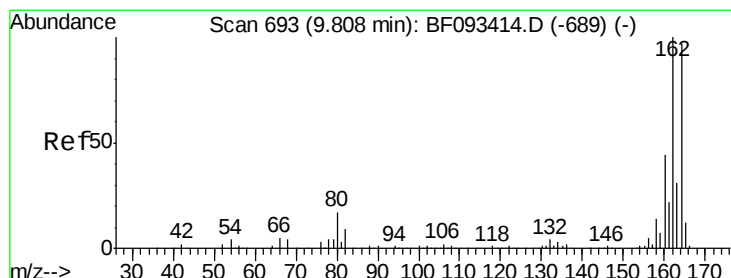
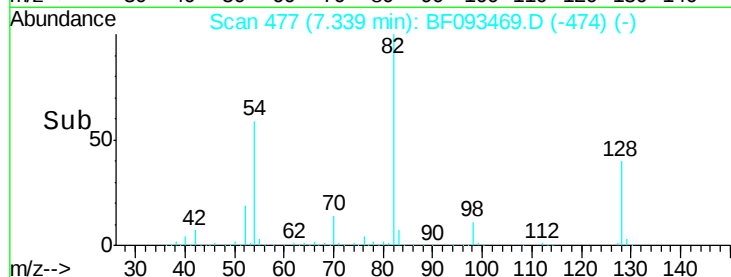
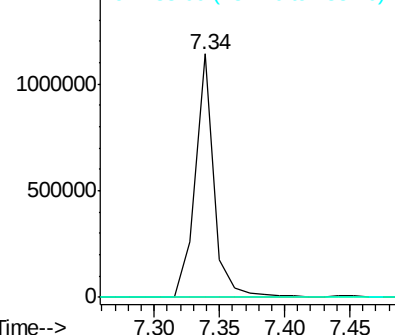
82 100

95 0.0 5.6 8.4#

138 0.0 14.6 22.0#



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 95.00 (94.70 to 95.70): BF0  
Ion 138.00 (137.70 to 138.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.81 min Scan# 693

Delta R.T. -0.00 min

Lab File: BF093469.D

Acq: 9 Mar 2017 11:16

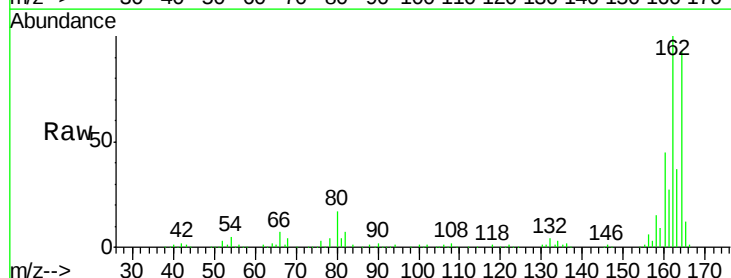
Tgt Ion:164 Resp: 293548

Ion Ratio Lower Upper

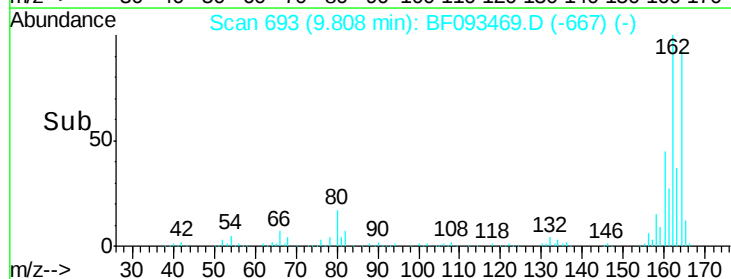
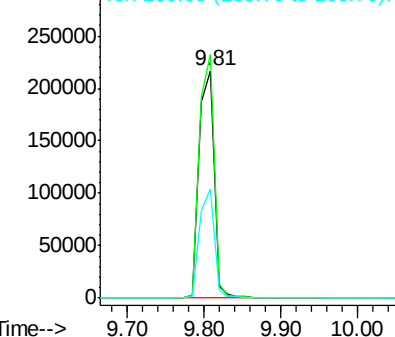
164 100

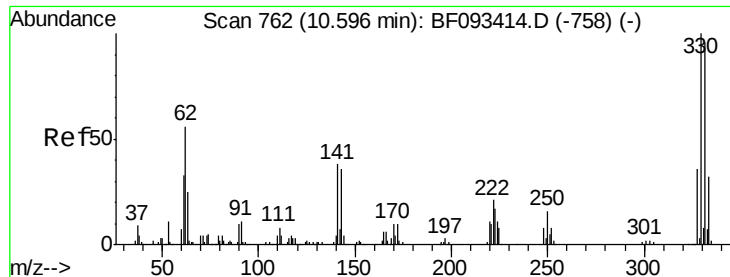
162 107.0 80.2 120.2

160 47.7 36.9 55.3



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

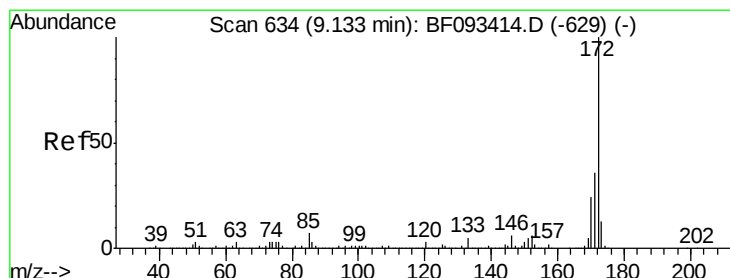
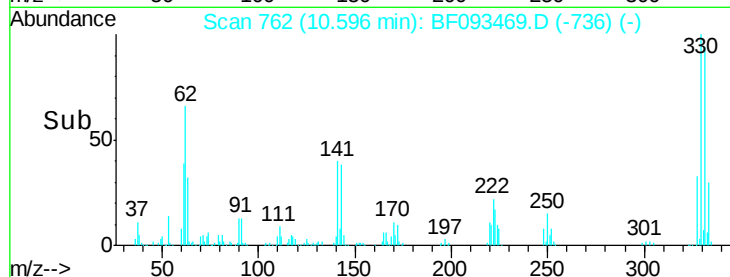
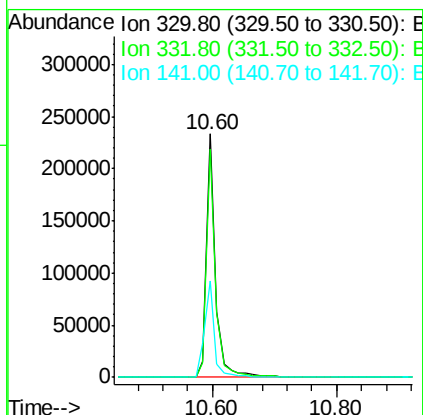
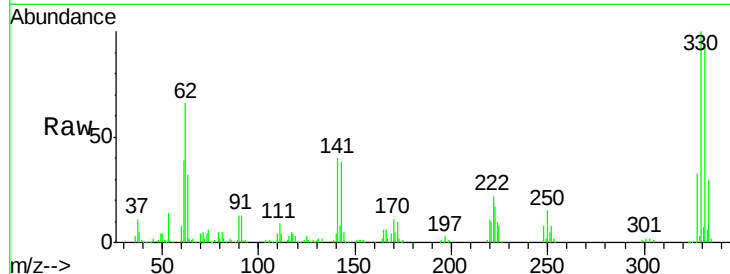




#41  
 2,4,6-Tribromophenol  
 Concen: 125.82 ng  
 RT: 10.60 min Scan# 762  
 Delta R.T. -0.00 min  
 Lab File: BF093469.D  
 Acq: 9 Mar 2017 11:16

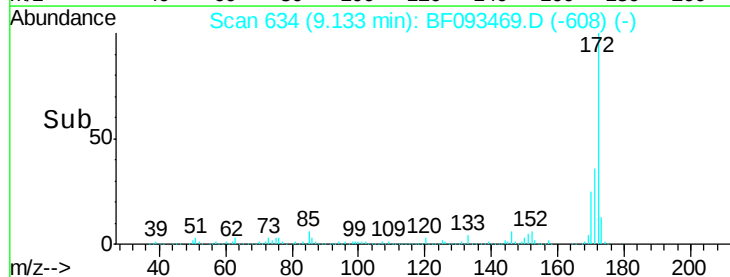
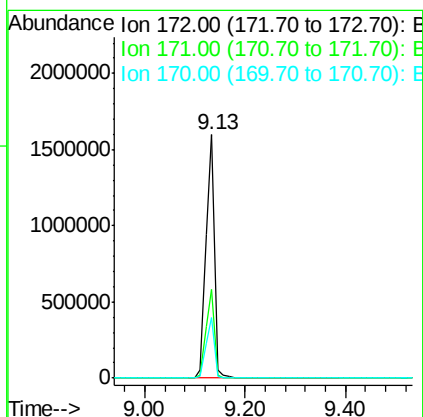
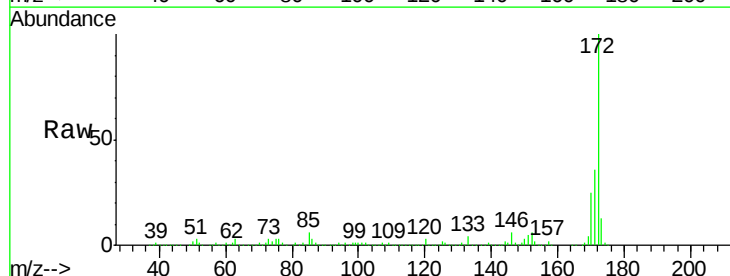
Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.0  | 77.4  | 116.2 |
| 141     | 43.4  | 34.1  | 51.1  |



#44  
 2-Fluorobiphenyl  
 Concen: 117.79 ng  
 RT: 9.13 min Scan# 634  
 Delta R.T. -0.00 min  
 Lab File: BF093469.D  
 Acq: 9 Mar 2017 11:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.3  | 29.4  | 44.0  |
| 170     | 24.8  | 20.2  | 30.4  |

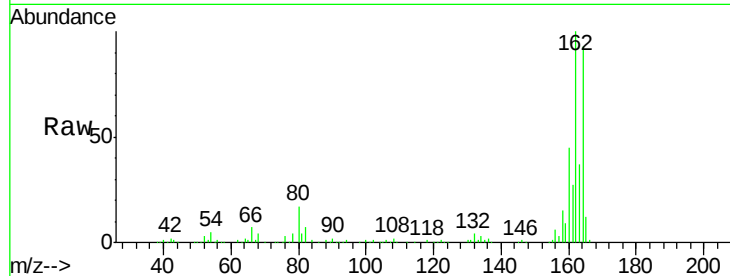




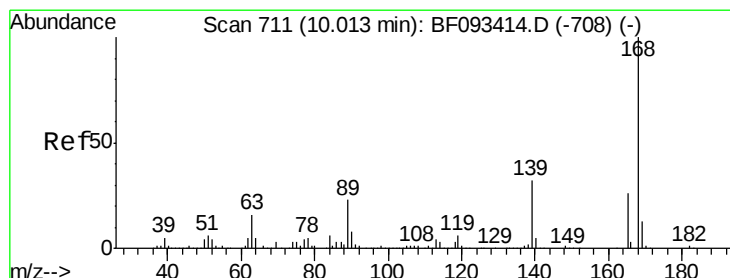
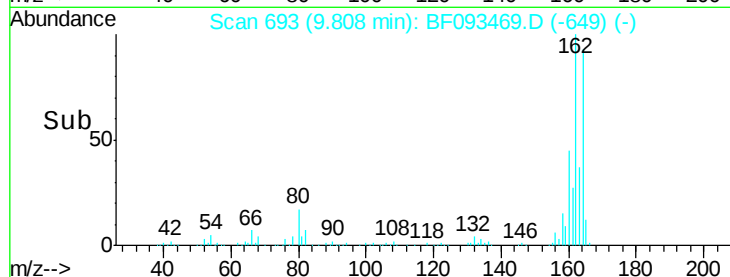
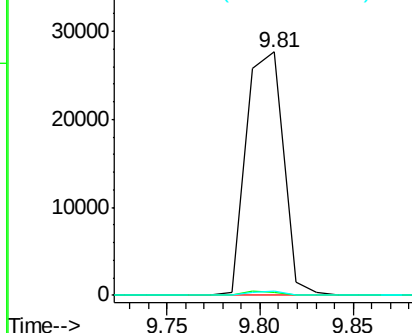
#50  
 2,6-Dinitrotoluene  
 Concen: 8.96 ng  
 RT: 9.81 min Scan# 693  
 Delta R.T. 0.21 min  
 Lab File: BF093469.D  
 Acq: 9 Mar 2017 11:16

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:165 Resp: 38250  
 Ion Ratio Lower Upper  
 165 100  
 63 1.5 36.2 54.4#  
 89 1.7 40.2 60.4#

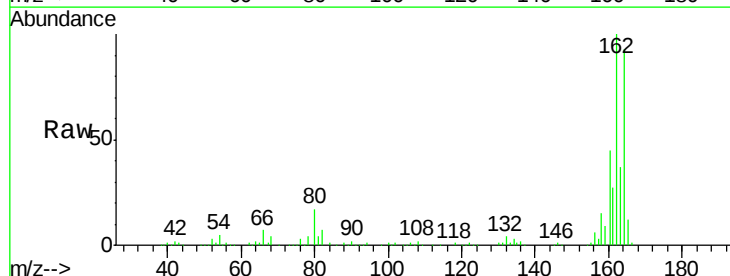


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0

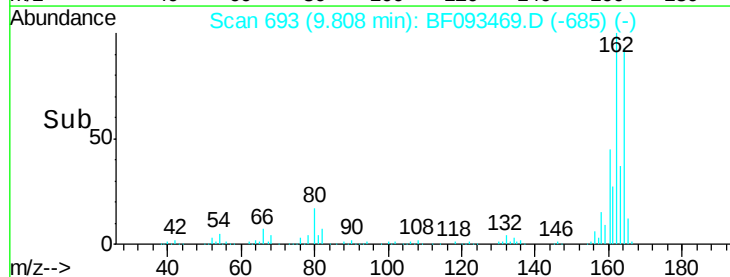
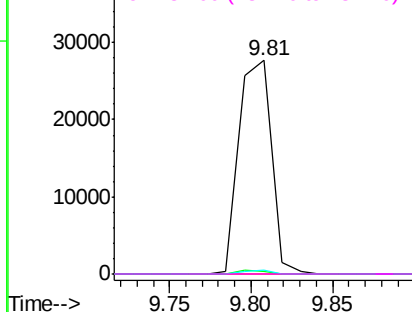


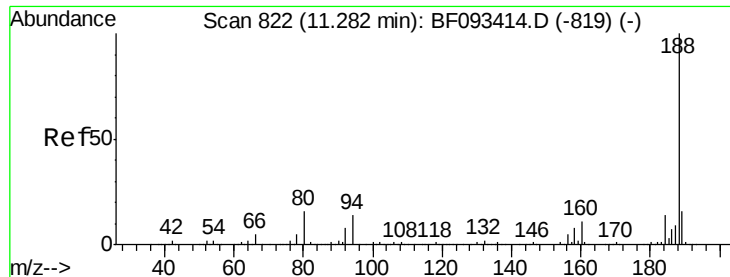
#56  
 2,4-Dinitrotoluene  
 Concen: 7.29 ng  
 RT: 9.81 min Scan# 693  
 Delta R.T. -0.21 min  
 Lab File: BF093469.D  
 Acq: 9 Mar 2017 11:16

Tgt Ion:165 Resp: 38251  
 Ion Ratio Lower Upper  
 165 100  
 63 1.5 40.2 60.4#  
 89 1.7 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

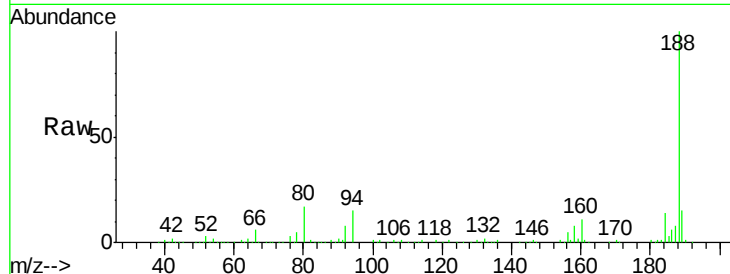




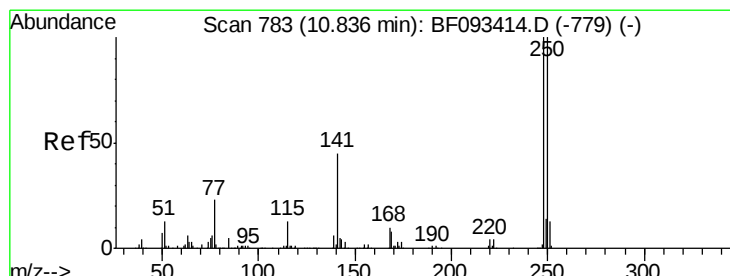
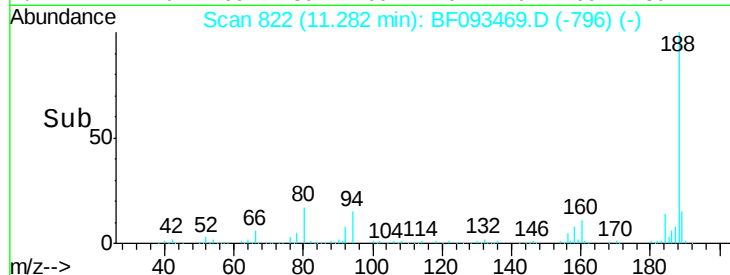
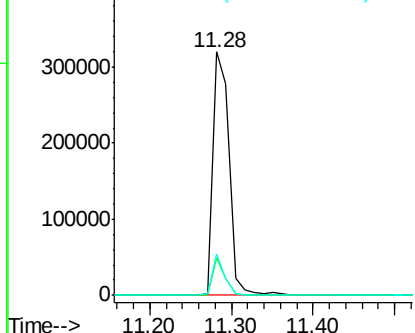
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.28 min Scan# 822  
Delta R.T. -0.00 min  
Lab File: BF093469.D  
Acq: 9 Mar 2017 11:16

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:188 Resp: 441506  
Ion Ratio Lower Upper  
188 100  
94 15.2 10.0 15.0#  
80 17.2 11.2 16.8#

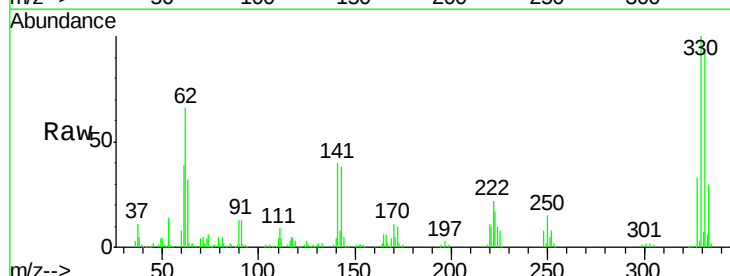


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

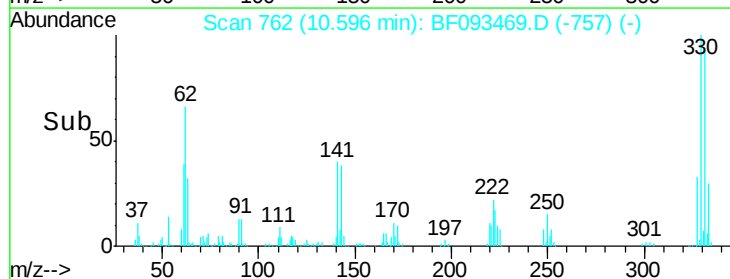
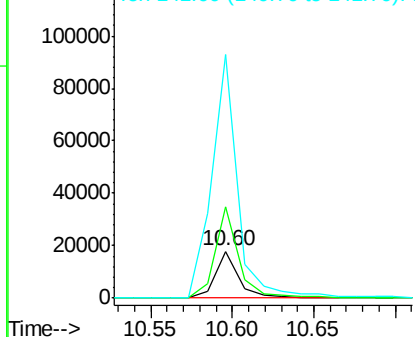


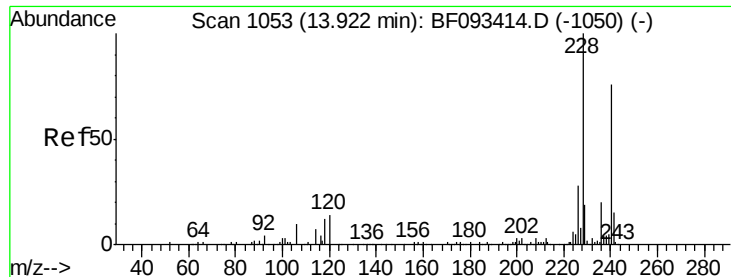
#66  
4-Bromophenyl-phenylether  
Concen: 3.79 ng  
RT: 10.60 min Scan# 762  
Delta R.T. -0.24 min  
Lab File: BF093469.D  
Acq: 9 Mar 2017 11:16

Tgt Ion:248 Resp: 17708  
Ion Ratio Lower Upper  
248 100  
250 194.1 76.9 115.3#  
141 519.1 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: 13.93 min Scan# 1054

Delta R.T. 0.01 min

Lab File: BF093469.D

Acq: 9 Mar 2017 11:16

Instrument :

BNA\_F

ClientSampleId :

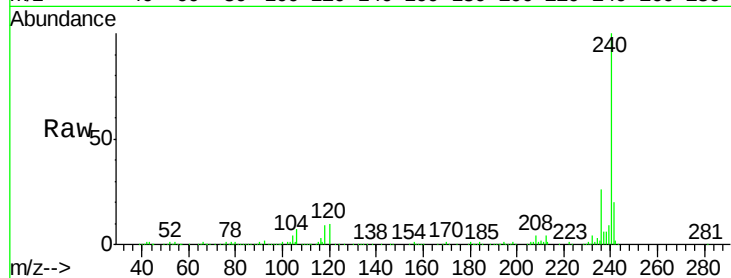
Tot Ion:240 Resp: 379385

Ion Ratio Lower Upper

240 100

120 10.1 12.9 19.3#

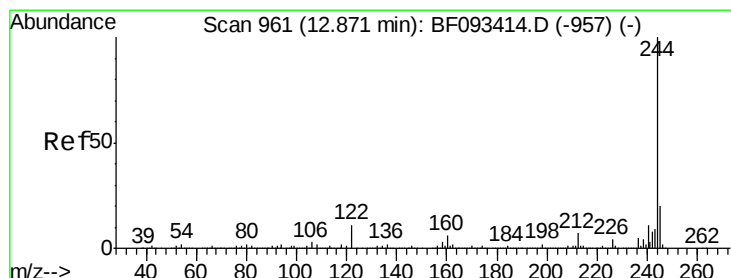
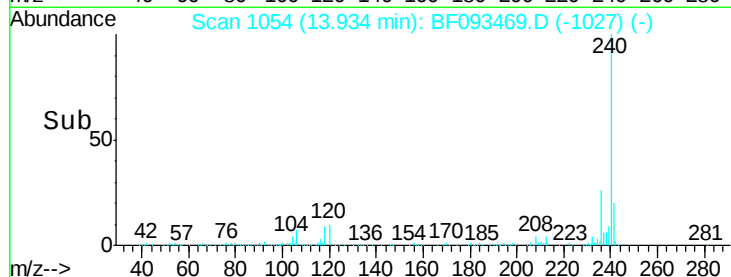
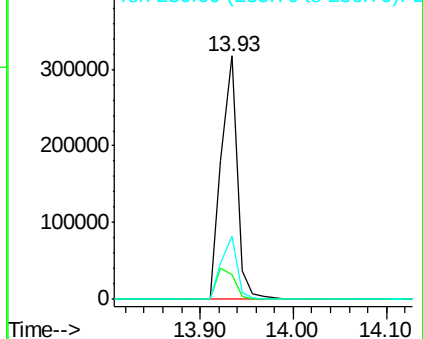
236 25.9 20.9 31.3



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: 73.49 ng

RT: 12.87 min Scan# 961

Delta R.T. -0.00 min

Lab File: BF093469.D

Acq: 9 Mar 2017 11:16

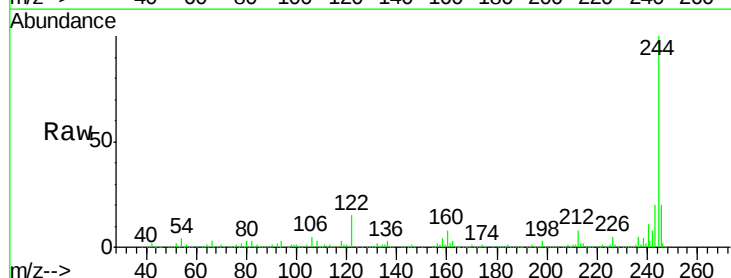
Tgt Ion:244 Resp: 1072322

Ion Ratio Lower Upper

244 100

212 7.9 6.2 9.2

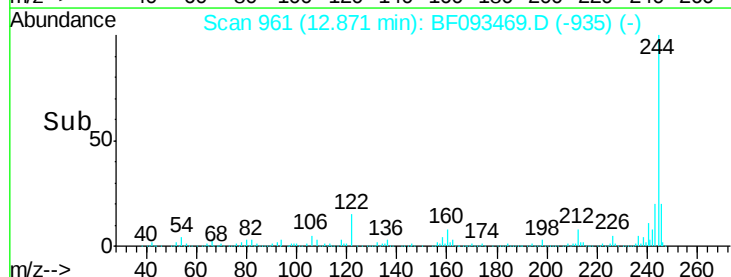
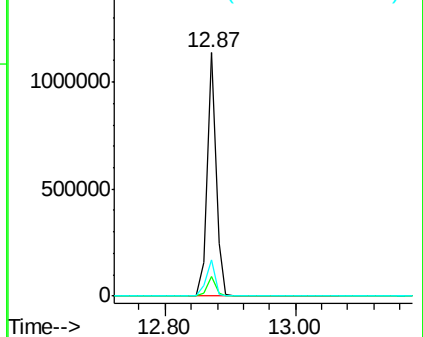
122 14.6 11.4 17.2

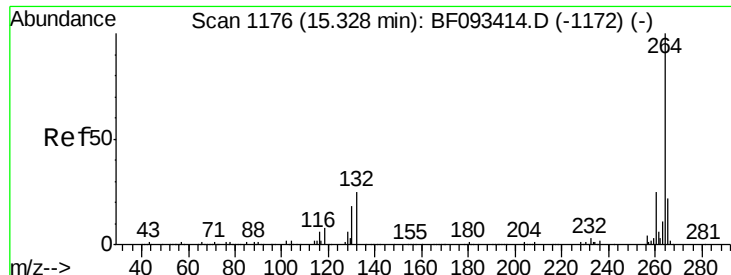


Abundance Ion 244.00 (243.70 to 244.70): E

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: 15.35 min Scan# 1178  
Delta R.T. 0.02 min  
Lab File: BF093469.D  
Acq: 9 Mar 2017 11:16

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion: 264 Resp: 282433  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.0  | 19.2  | 28.8  |
| 265 | 21.3  | 17.4  | 26.0  |

