

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041917\  
 Data File : BF094515.D  
 Acq On : 19 Apr 2017 14:53  
 Operator : SJ/MA  
 Sample : PB98329BL  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Apr 20 03:04:32 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 17 14:59:23 2017  
 Response via : Initial Calibration

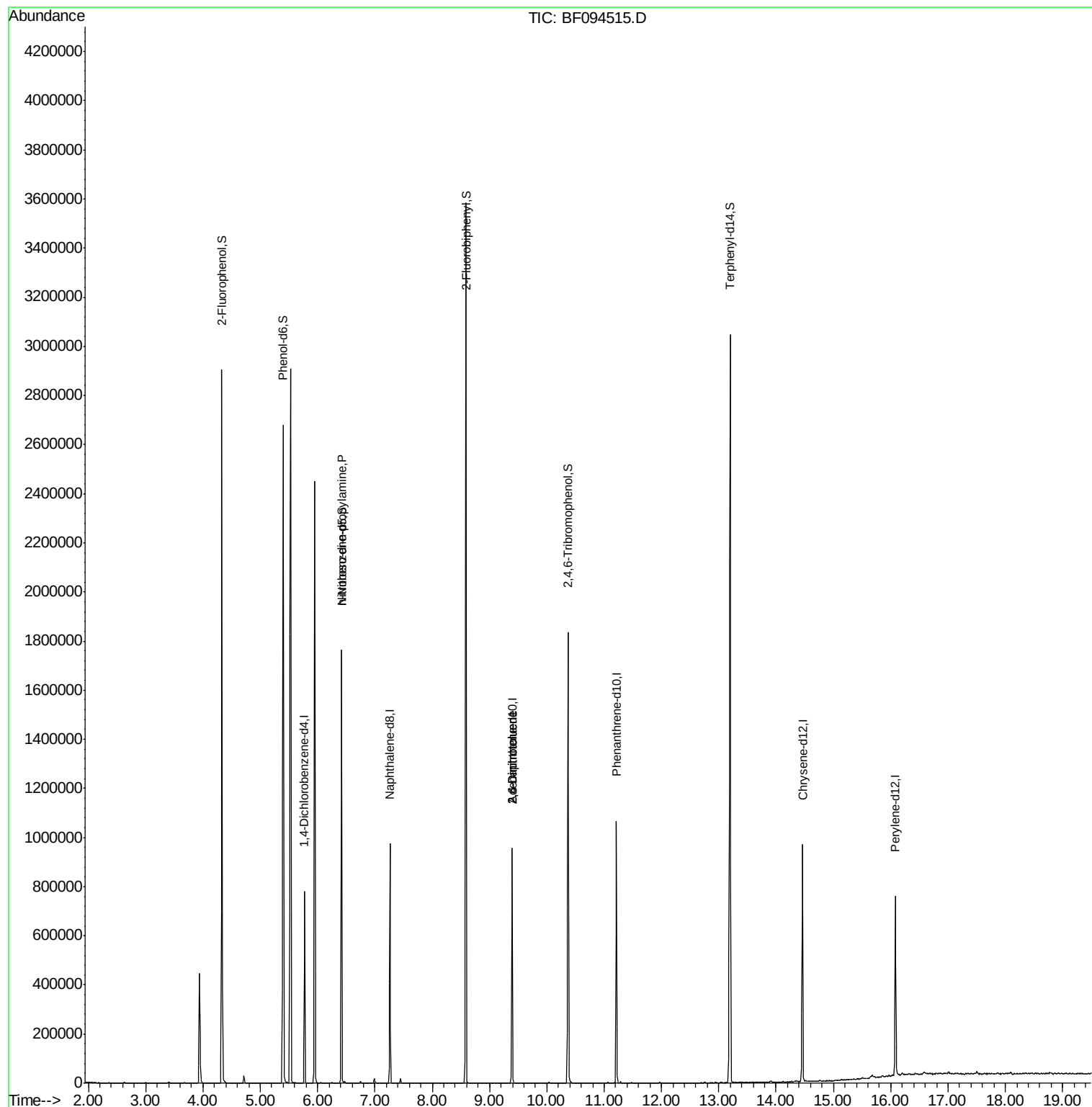
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 5.77  | 152  | 116004   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 7.26  | 136  | 475691   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.40  | 164  | 201118   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.21 | 188  | 421543   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 14.46 | 240  | 358730   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 16.08 | 264  | 272460   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 4.33  | 112  | 921386   | 131.77 | ng    | 0.03     |
| 7) Phenol-d6                   | 5.40  | 99   | 1146494  | 139.09 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 6.42  | 82   | 698834   | 90.71  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.37 | 330  | 236920   | 150.61 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 8.59  | 172  | 1301824  | 95.24  | ng    | 0.00     |
| 78) Terphenyl-d14              | 13.20 | 244  | 1247165  | 92.93  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 6.42  | 70   | 92823    | 17.00  | ng    | # 76     |
| 50) 2,6-Dinitrotoluene         | 9.40  | 165  | 25343    | 7.53   | ng    | # 33     |
| 56) 2,4-Dinitrotoluene         | 9.40  | 165  | 25342    | 6.14   | ng    | # 33     |

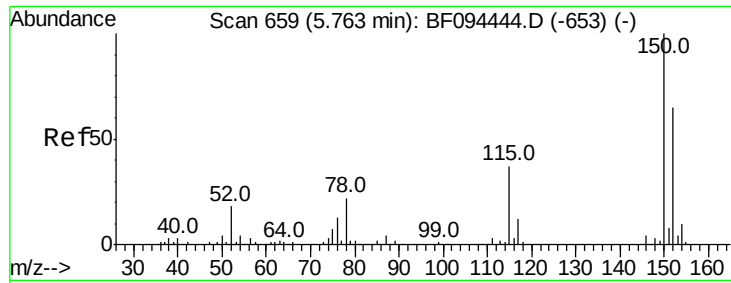
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041917\  
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BNA\_F  
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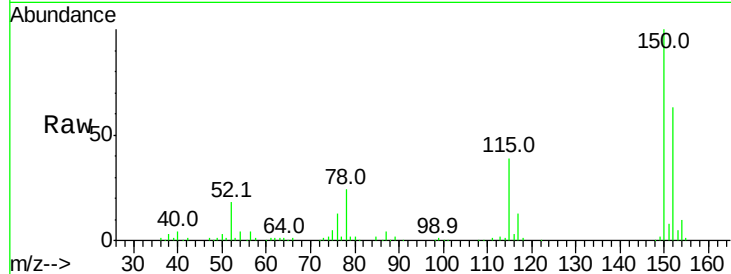


#1

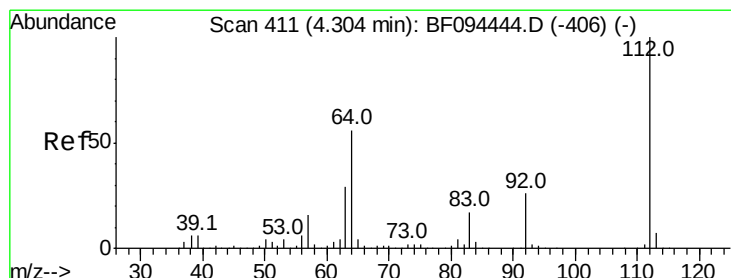
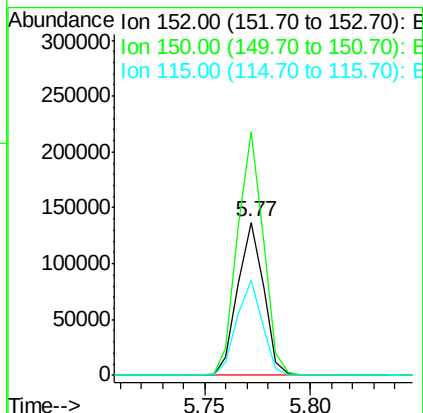
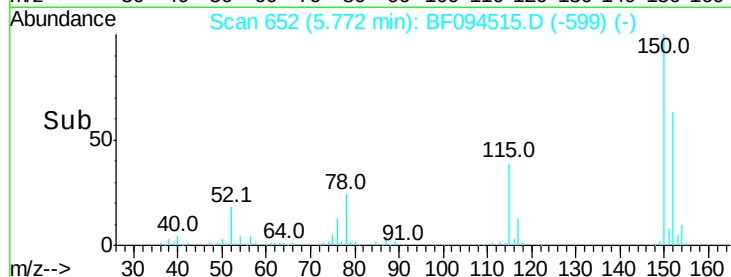
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 5.77 min Scan# 652  
Delta R.T. 0.01 min  
Lab File: BF094515.D  
Acq: 19 Apr 2017 14:53

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:152 Resp: 116004  
Ion Ratio Lower Upper  
152 100  
150 159.2 126.2 189.2  
115 62.2 52.2 78.2



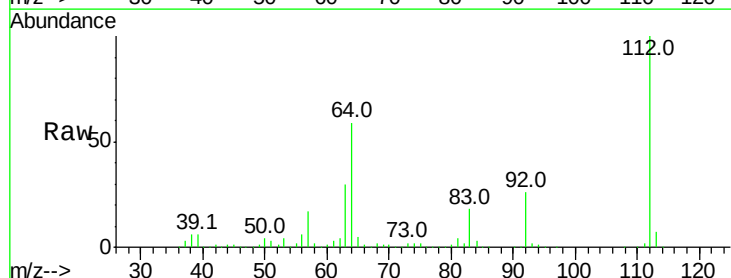
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



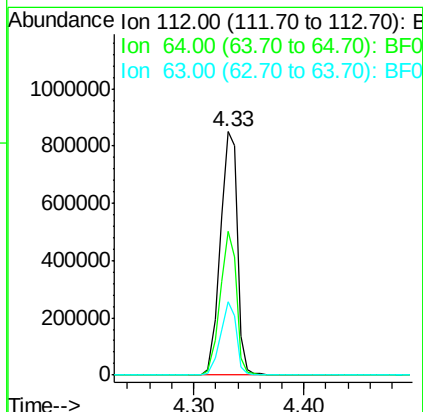
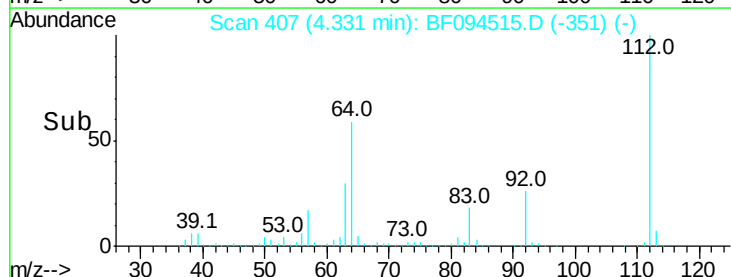
#5

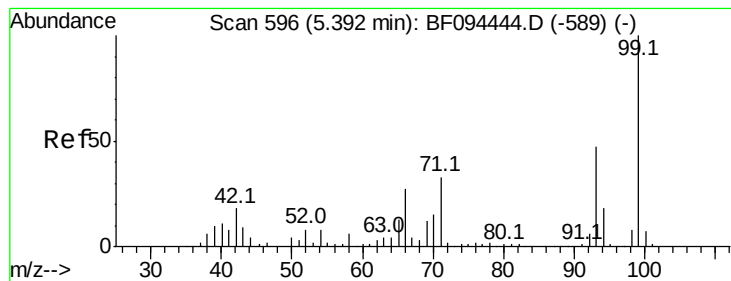
2-Fluorophenol  
Concen: 131.77 ng  
RT: 4.33 min Scan# 407  
Delta R.T. 0.03 min  
Lab File: BF094515.D  
Acq: 19 Apr 2017 14:53

Tgt Ion:112 Resp: 921386  
Ion Ratio Lower Upper  
112 100  
64 59.2 46.0 69.0  
63 30.3 23.4 35.0



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: 139.09 ng

RT: 5.40 min Scan# 589

Delta R.T. 0.01 min

Lab File: BF094515.D

Acq: 19 Apr 2017 14:53

Instrument :

BNA\_F

ClientSampled :

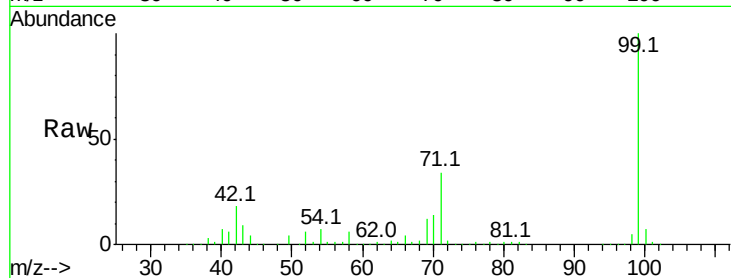
Tot Ion: 99 Resp: 1146494

Ion Ratio Lower Upper

99 100

42 17.8 13.5 20.3

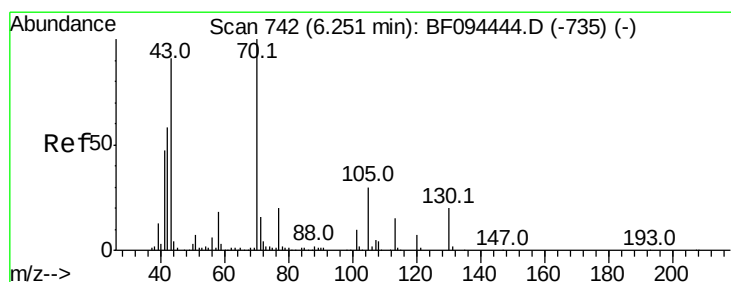
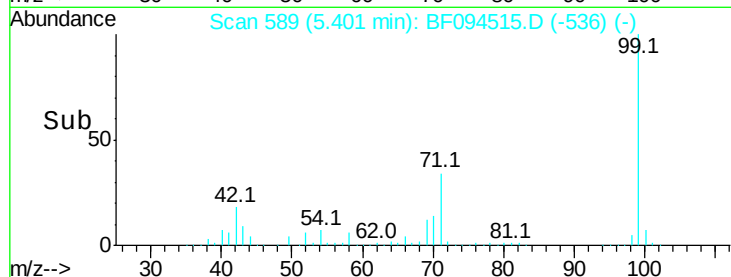
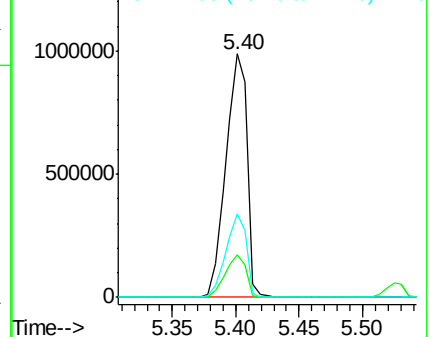
71 34.2 24.5 36.7



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: 17.00 ng

RT: 6.42 min Scan# 762

Delta R.T. 0.17 min

Lab File: BF094515.D

Acq: 19 Apr 2017 14:53

Tgt Ion: 70 Resp: 92823

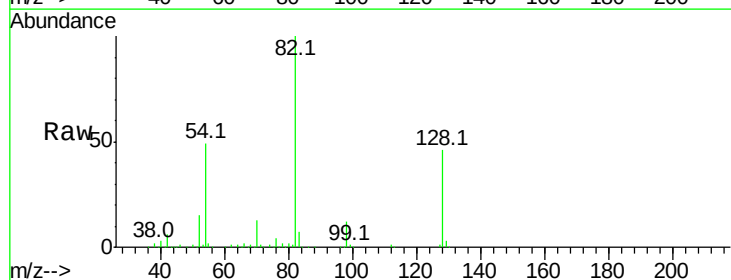
Ion Ratio Lower Upper

70 100

42 44.9 47.2 70.8#

101 0.0 7.2 10.8#

130 2.7 15.9 23.9#

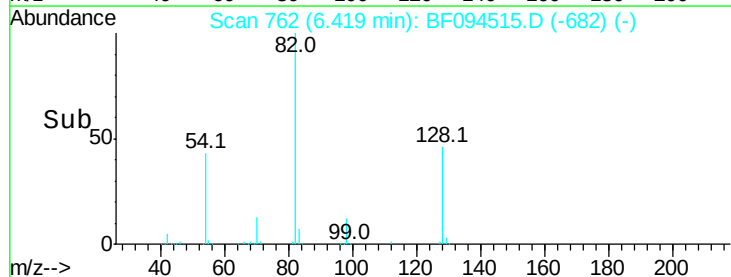
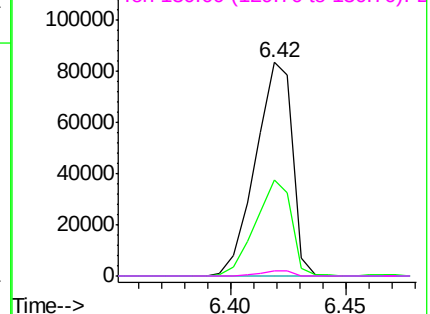


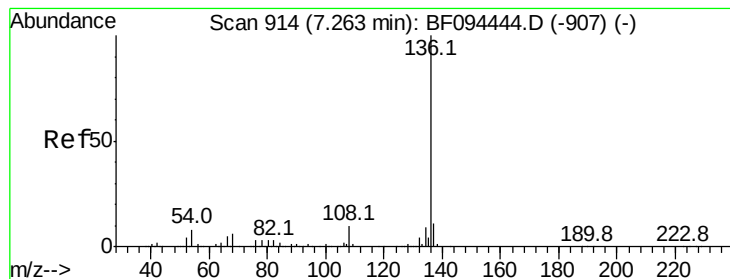
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.26 min Scan# 905

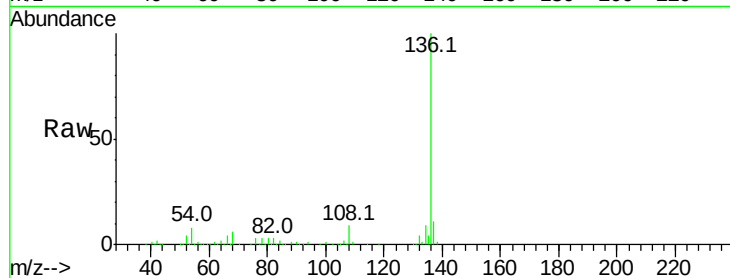
Delta R.T. -0.00 min

Lab File: BF094515.D

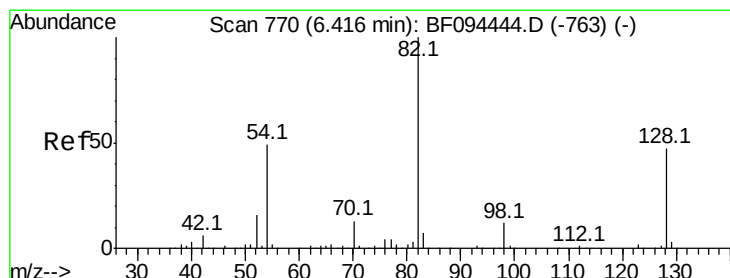
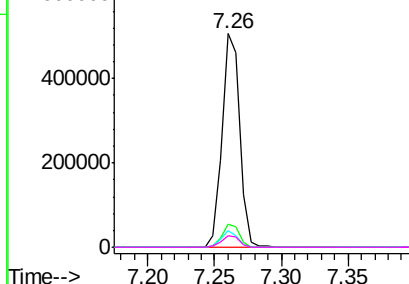
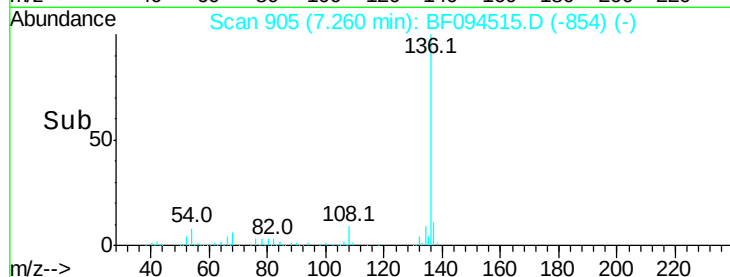
Acq: 19 Apr 2017 14:53

Instrument :  
BNA\_F  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 475691 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.8  | 8.5   | 12.7   |
| 54       | 7.6   | 4.9   | 7.3#   |
| 68       | 5.7   | 4.1   | 6.1    |



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: 90.71 ng

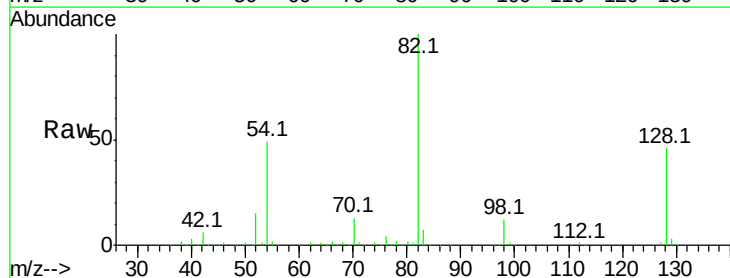
RT: 6.42 min Scan# 762

Delta R.T. 0.00 min

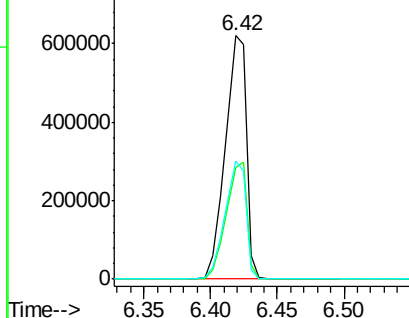
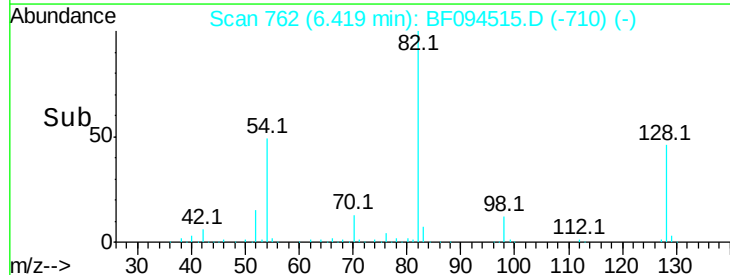
Lab File: BF094515.D

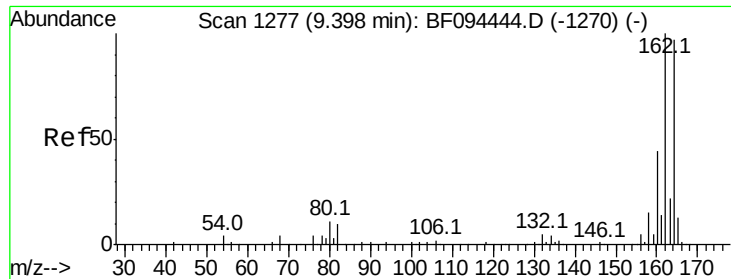
Acq: 19 Apr 2017 14:53

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 698834 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 45.7  | 34.0  | 51.0   |
| 54       | 48.6  | 42.2  | 63.2   |



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

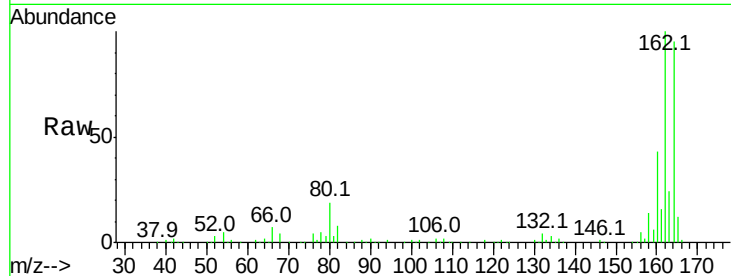




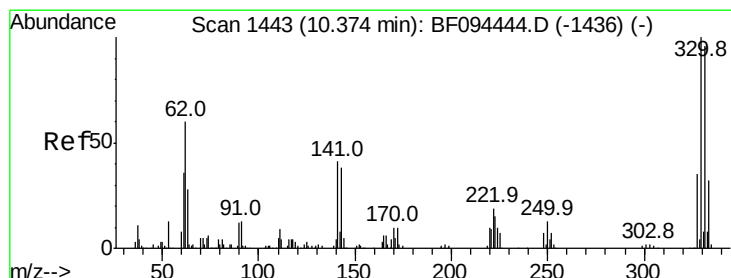
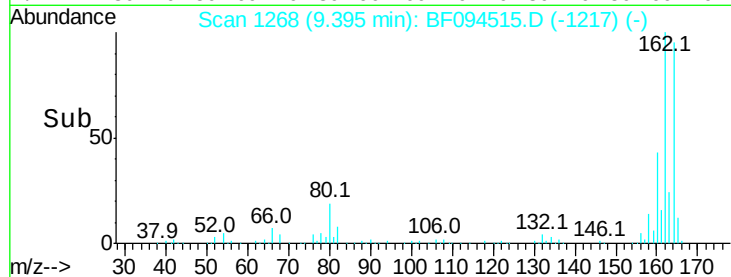
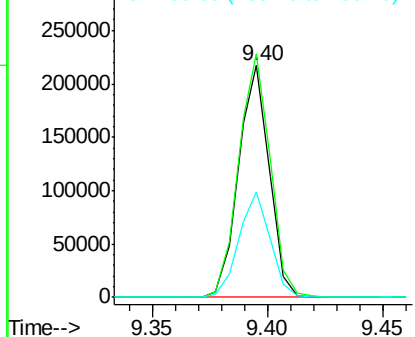
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.40 min Scan# 1268  
 Delta R.T. -0.00 min  
 Lab File: BF094515.D  
 Acq: 19 Apr 2017 14:53

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:164 Resp: 201118  
 Ion Ratio Lower Upper  
 164 100  
 162 105.1 82.6 123.8  
 160 45.2 36.2 54.2

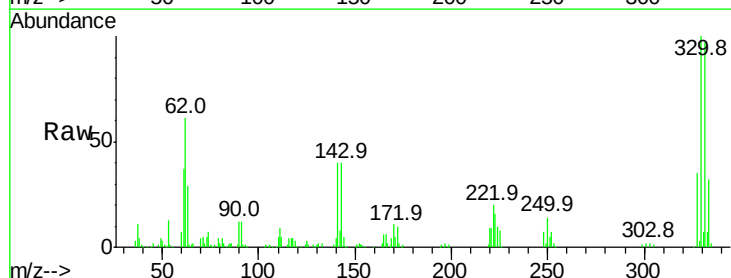


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

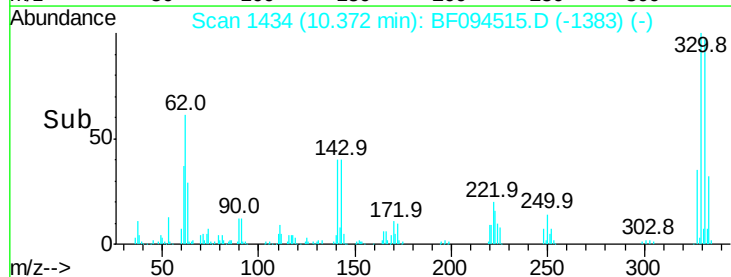
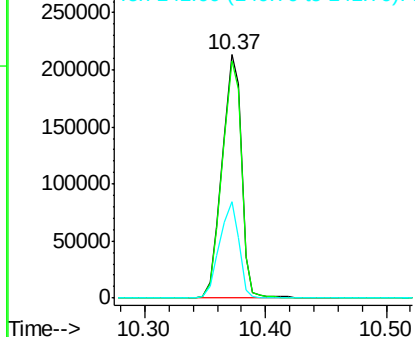


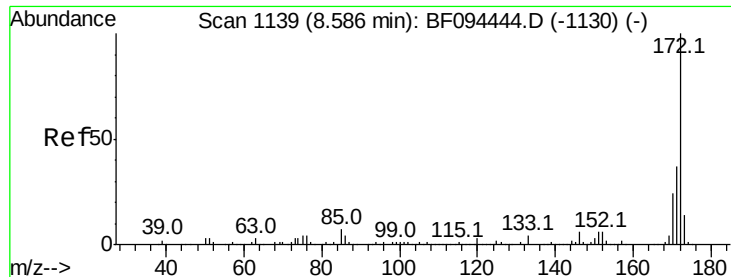
#41  
 2,4,6-Tribromophenol  
 Concen: 150.61 ng  
 RT: 10.37 min Scan# 1434  
 Delta R.T. -0.00 min  
 Lab File: BF094515.D  
 Acq: 19 Apr 2017 14:53

Tgt Ion:330 Resp: 236920  
 Ion Ratio Lower Upper  
 330 100  
 332 97.9 76.6 115.0  
 141 39.4 31.4 47.2



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



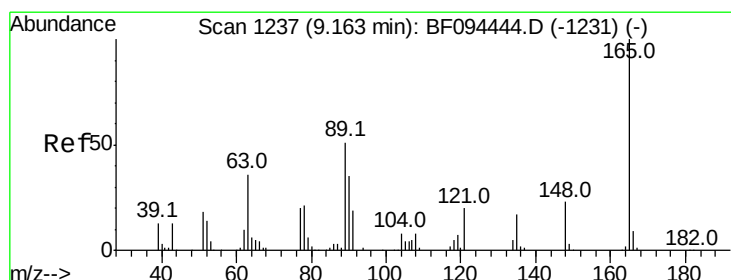
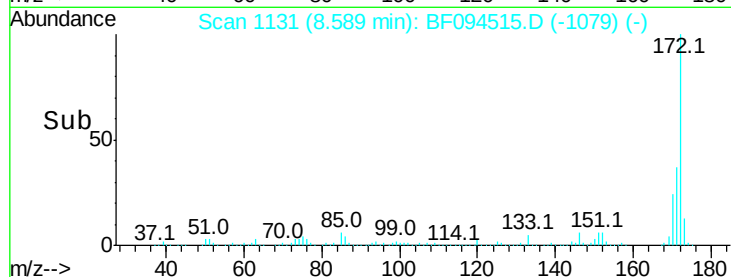
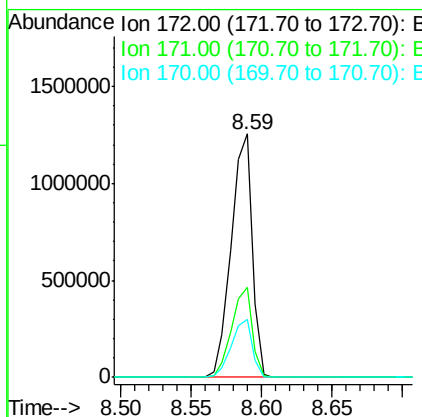
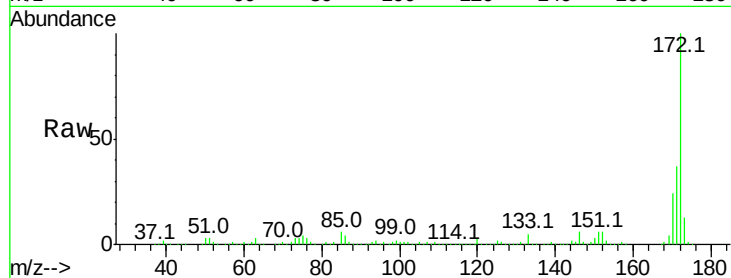


#44  
 2-Fluorobiphenyl  
 Concen: 95.24 ng  
 RT: 8.59 min Scan# 1131  
 Delta R.T. 0.00 min  
 Lab File: BF094515.D  
 Acq: 19 Apr 2017 14:53

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:172 Resp: 1301824  

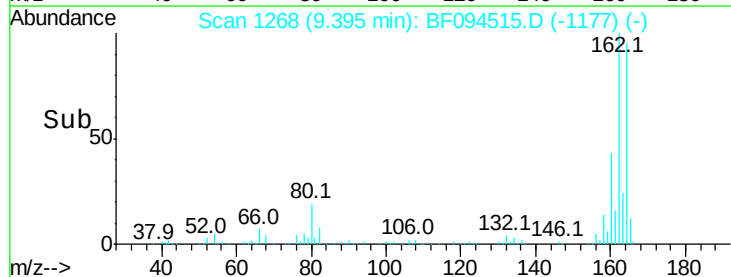
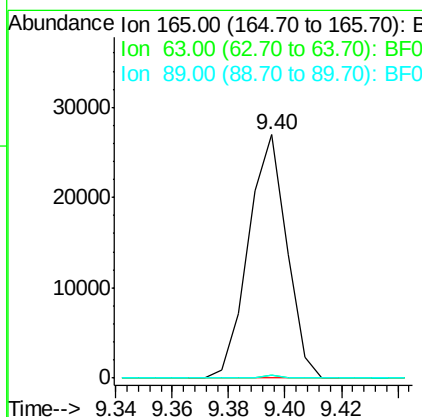
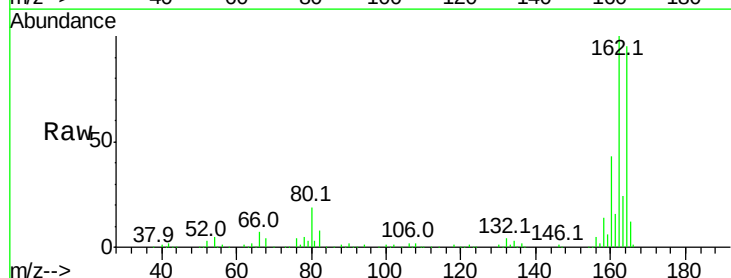
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 36.8  | 29.6  | 44.4  |
| 170 | 24.1  | 19.8  | 29.8  |

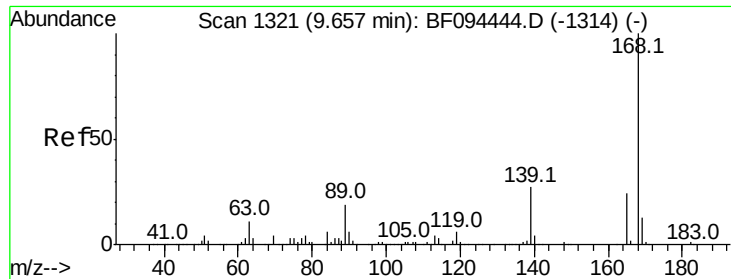


#50  
 2,6-Dinitrotoluene  
 Concen: 7.53 ng  
 RT: 9.40 min Scan# 1268  
 Delta R.T. 0.23 min  
 Lab File: BF094515.D  
 Acq: 19 Apr 2017 14:53

Tgt Ion:165 Resp: 25343  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 165 | 100   |       |       |
| 63  | 1.2   | 34.3  | 51.5# |
| 89  | 1.4   | 37.1  | 55.7# |

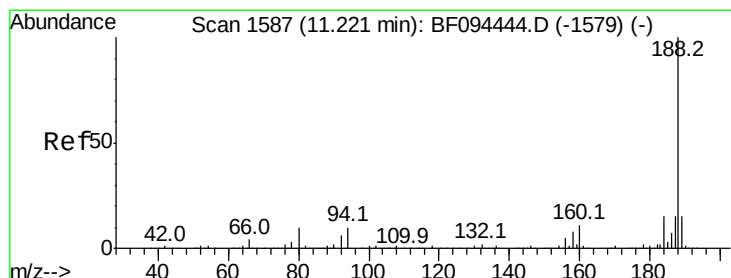
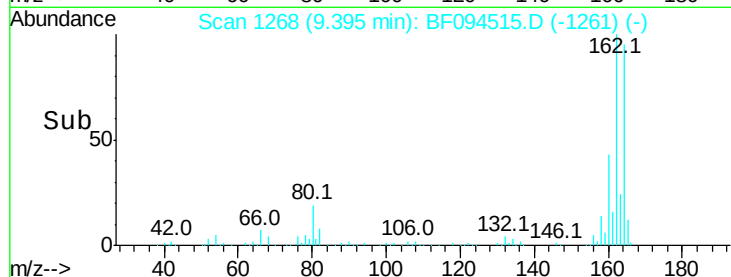
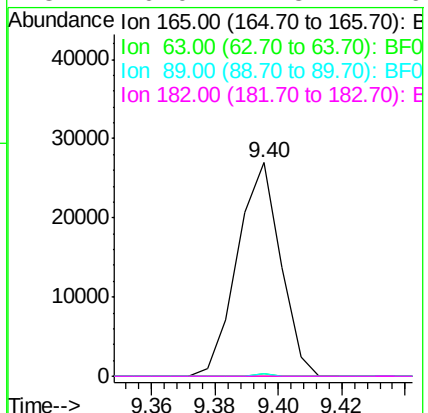
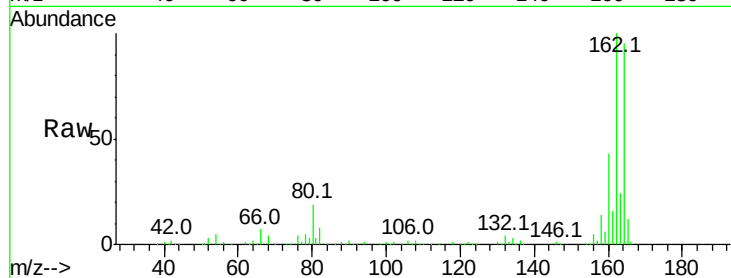




#56  
 2,4-Dinitrotoluene  
 Concen: 6.14 ng  
 RT: 9.40 min Scan# 1268  
 Delta R.T. -0.26 min  
 Lab File: BF094515.D  
 Acq: 19 Apr 2017 14:53

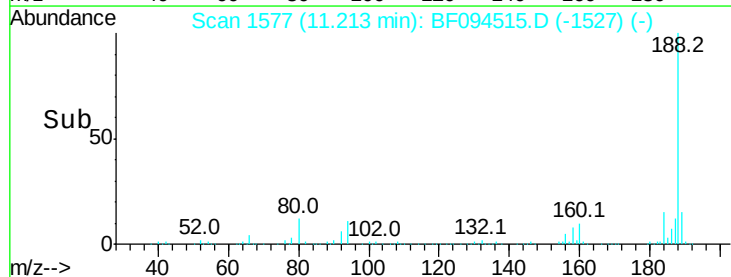
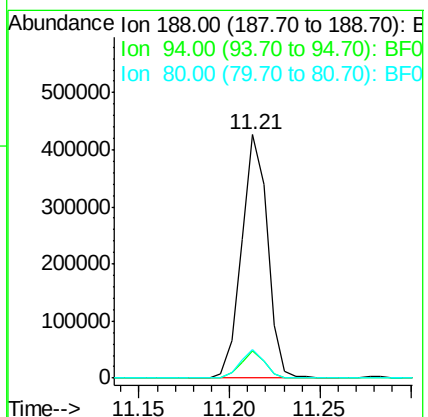
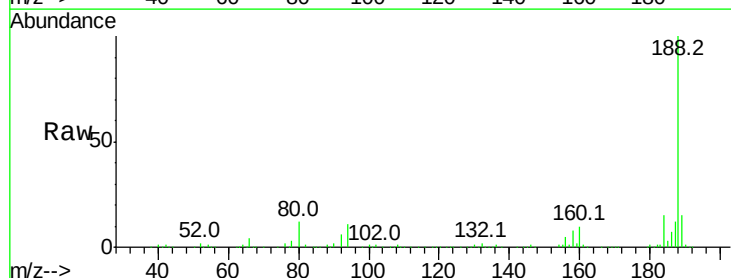
Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:165 Resp: 25342  
 Ion Ratio Lower Upper  
 165 100  
 63 1.2 25.4 38.0#  
 89 1.4 46.4 69.6#  
 182 0.0 1.8 2.6#

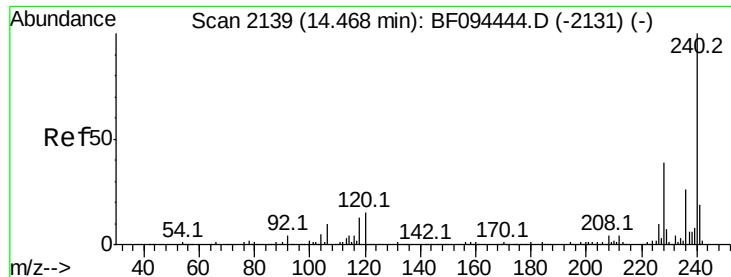


#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.21 min Scan# 1577  
 Delta R.T. -0.01 min  
 Lab File: BF094515.D  
 Acq: 19 Apr 2017 14:53

Tgt Ion:188 Resp: 421543  
 Ion Ratio Lower Upper  
 188 100  
 94 11.1 9.4 14.2  
 80 12.0 10.2 15.2







#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.46 min Scan# 2129

Delta R.T. -0.01 min

Lab File: BF094515.D

Acq: 19 Apr 2017 14:53

Instrument :

BNA\_F

ClientSampled :

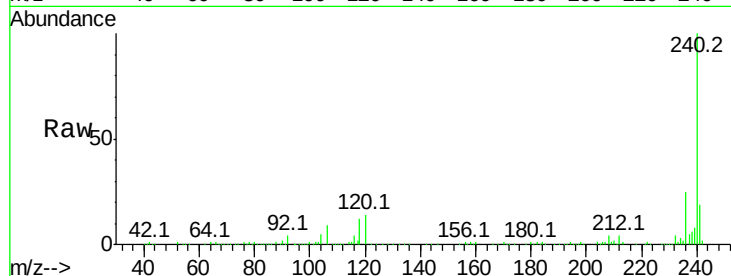
Tot Ion:240 Resp: 358730

Ion Ratio Lower Upper

240 100

120 14.3 5.8 8.8#

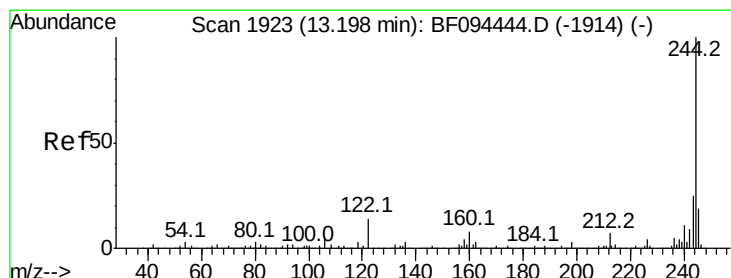
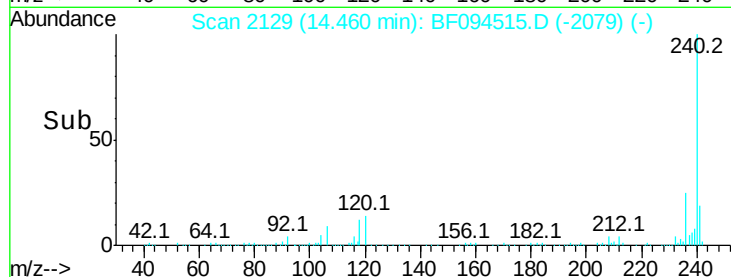
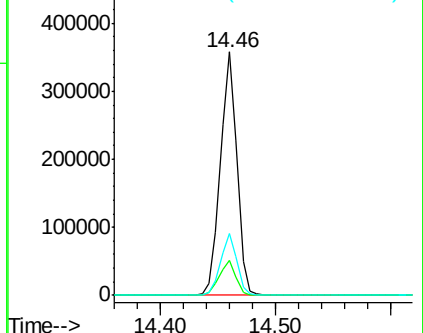
236 25.4 20.5 30.7



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: 92.93 ng

RT: 13.20 min Scan# 1915

Delta R.T. 0.00 min

Lab File: BF094515.D

Acq: 19 Apr 2017 14:53

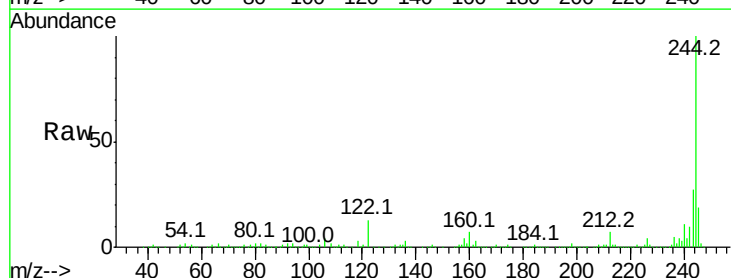
Tgt Ion:244 Resp: 1247165

Ion Ratio Lower Upper

244 100

212 7.3 6.0 9.0

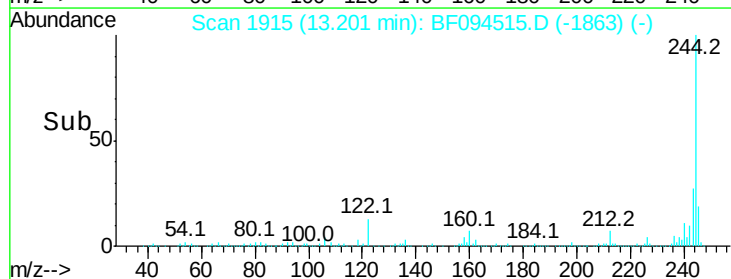
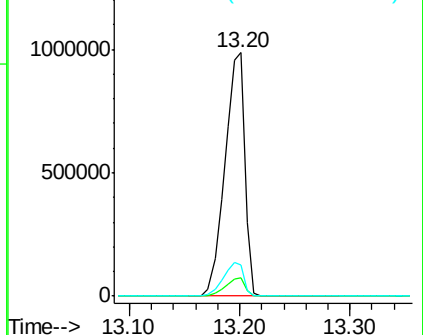
122 12.6 10.3 15.5

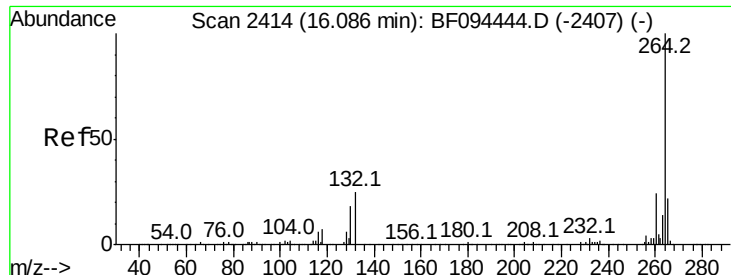


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

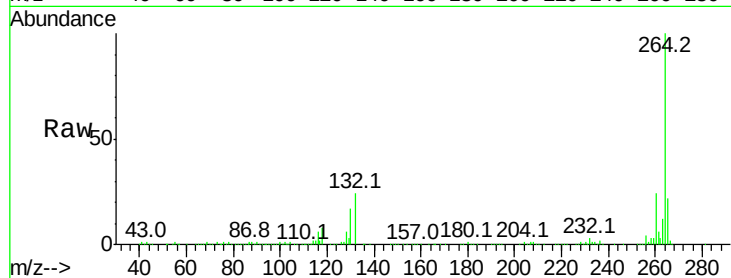




#86  
 Pervlene-d12  
 Concen: 20.00 ng  
 RT: 16.08 min Scan# 2405  
 Delta R.T. -0.00 min  
 Lab File: BF094515.D  
 Acq: 19 Apr 2017 14:53

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.6  | 19.5  | 29.3  |
| 265     | 22.5  | 17.2  | 25.8  |



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

