

Data Path : Z:\HPCHEM1\BNA F\DATA\BF031017\  
 Data File : BF093531.D  
 Acq On : 10 Mar 2017 19:28  
 Operator : SJ/MA  
 Sample : I2172-23  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 D-44

Quant Time: Mar 10 22:17:30 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

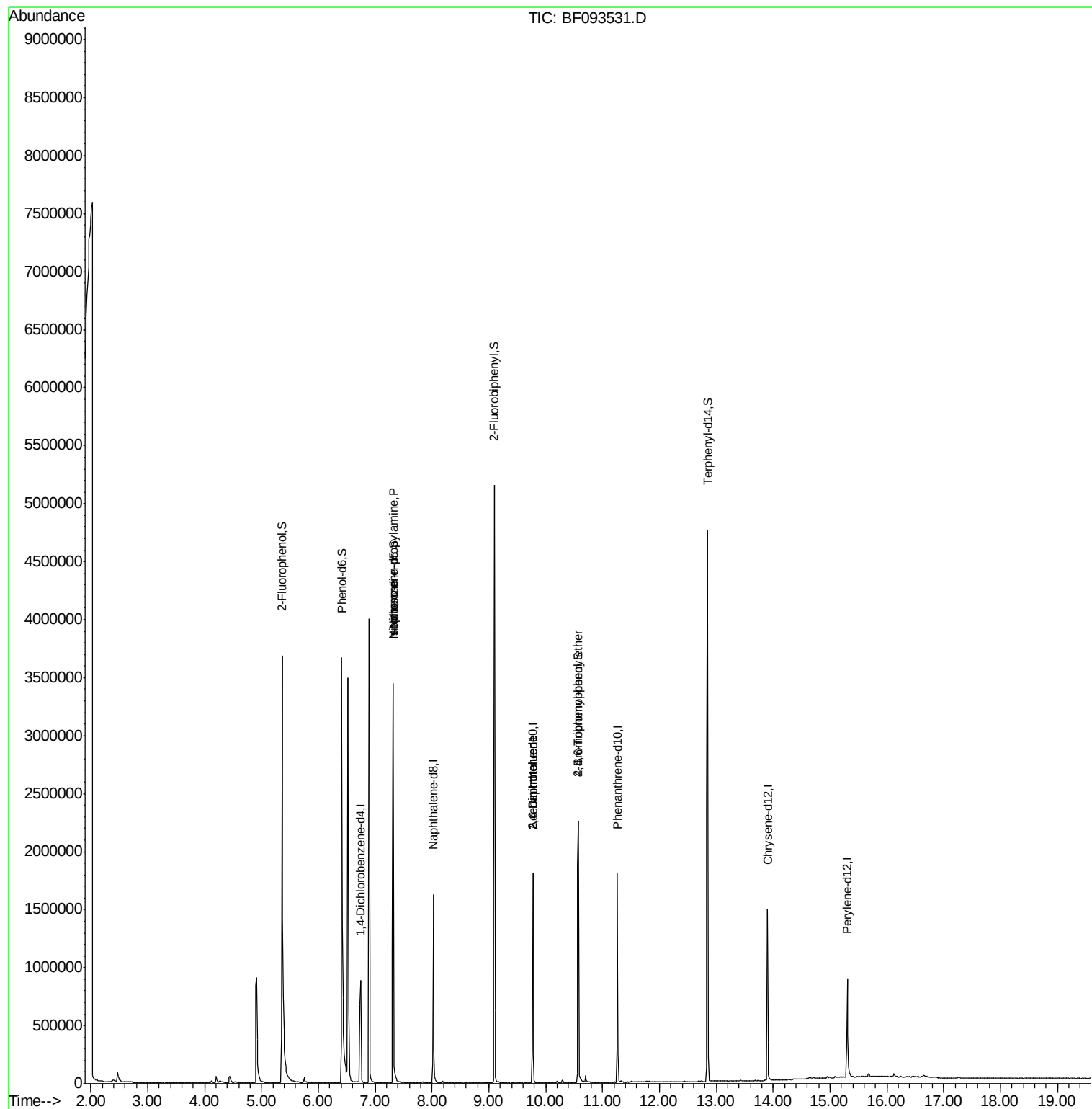
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.74  | 152  | 183463   | 20.00     | ng    | -0.02    |
| 21) Naphthalene-d8             | 8.02  | 136  | 729178   | 20.00     | ng    | -0.03    |
| 38) Acenaphthene-d10           | 9.77  | 164  | 350996   | 20.00     | ng    | -0.03    |
| 63) Phenanthrene-d10           | 11.26 | 188  | 643182   | 20.00     | ng    | -0.02    |
| 75) Chrysene-d12               | 13.90 | 240  | 527321   | 20.00     | ng    | -0.02    |
| 86) Perylene-d12               | 15.31 | 264  | 395853   | 20.00     | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.36  | 112  | 1461506  | 132.58    | ng    | 0.01     |
| 7) Phenol-d6                   | 6.41  | 99   | 1828176  | 131.52    | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.32  | 82   | 1252044  | 95.27     | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.57 | 330  | 360912   | 157.82    | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 9.10  | 172  | 1713956  | 90.83     | ng    | -0.03    |
| 78) Terphenyl-d14              | 12.85 | 244  | 1656629  | 81.68     | ng    | -0.02    |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.41  | 77   | 2399     | Below Cal | #     | 1        |
| 19) n-Nitroso-di-n-propylamine | 7.32  | 70   | 166166   | 17.39     | ng    | # 82     |
| 25) Isophorone                 | 7.32  | 82   | 1252970  | 47.28     | ng    | # 65     |
| 50) 2,6-Dinitrotoluene         | 9.77  | 165  | 44548    | 8.72      | ng    | # 31     |
| 56) 2,4-Dinitrotoluene         | 9.77  | 165  | 44550    | 7.10      | ng    | # 20     |
| 66) 4-Bromophenyl-phenylether  | 10.57 | 248  | 26725    | 3.93      | ng    | # 1      |

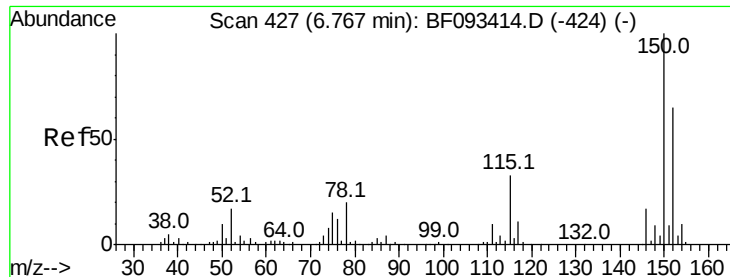
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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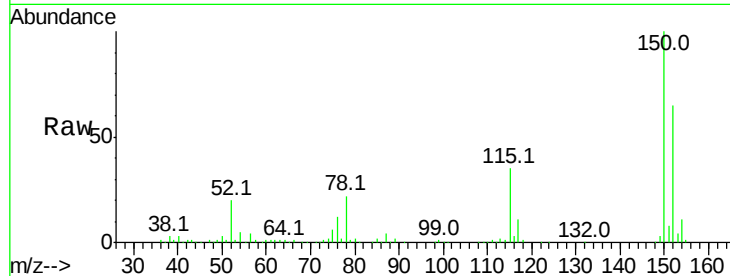


#1

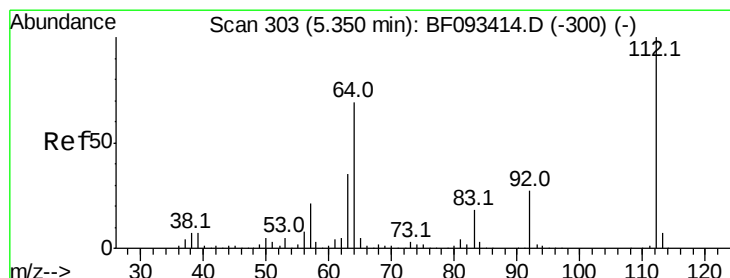
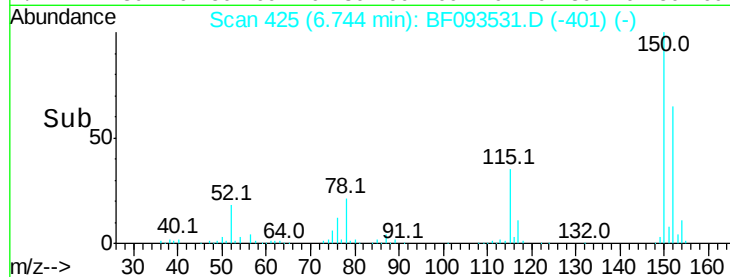
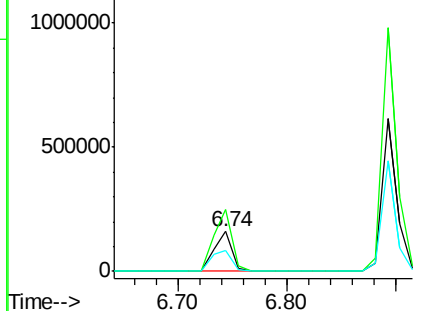
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.74 min Scan# 425  
Delta R.T. -0.02 min  
Lab File: BF093531.D  
Acq: 10 Mar 2017 19:28

Instrument :  
BNA\_F  
ClientSampled :  
D-44

Tot Ion:152 Resp: 183463  
Ion Ratio Lower Upper  
152 100  
150 154.5 124.9 187.3  
115 53.6 46.0 69.0



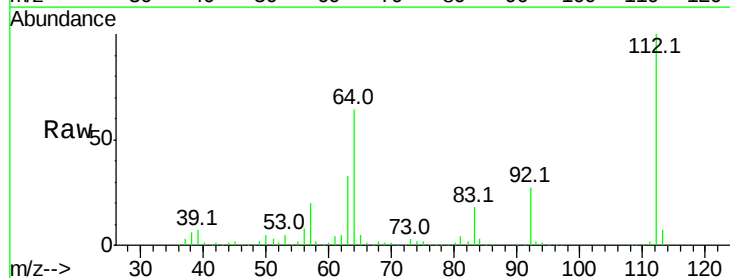
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



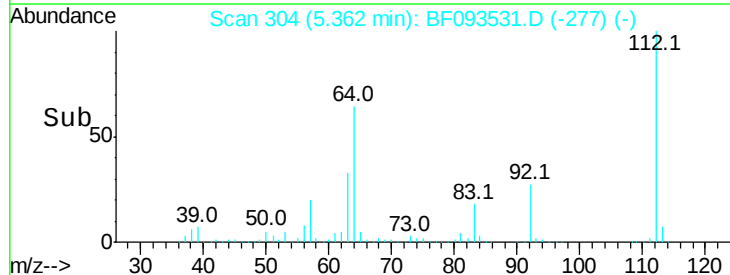
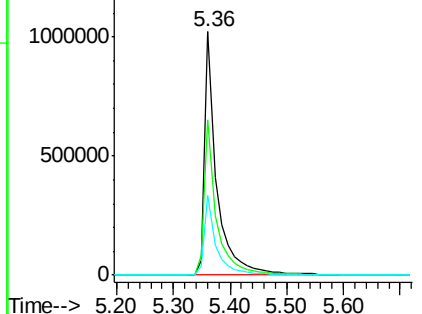
#5

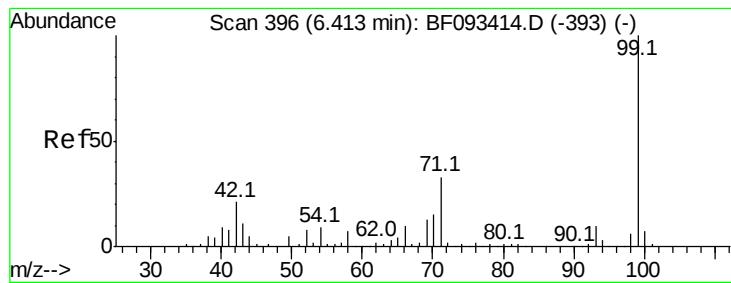
2-Fluorophenol  
Concen: 132.58 ng  
RT: 5.36 min Scan# 304  
Delta R.T. 0.01 min  
Lab File: BF093531.D  
Acq: 10 Mar 2017 19:28

Tgt Ion:112 Resp: 1461506  
Ion Ratio Lower Upper  
112 100  
64 64.0 46.1 69.1  
63 32.7 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: 131.52 ng

RT: 6.41 min Scan# 396

Delta R.T. -0.00 min

Lab File: BF093531.D

Acq: 10 Mar 2017 19:28

Instrument :

BNA\_F

ClientSampleId :

D-44

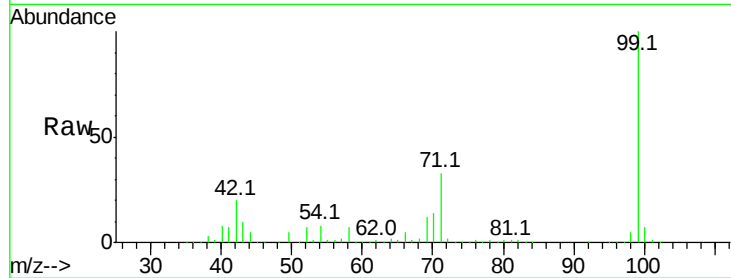
Tot Ion: 99 Resp: 1828176

Ion Ratio Lower Upper

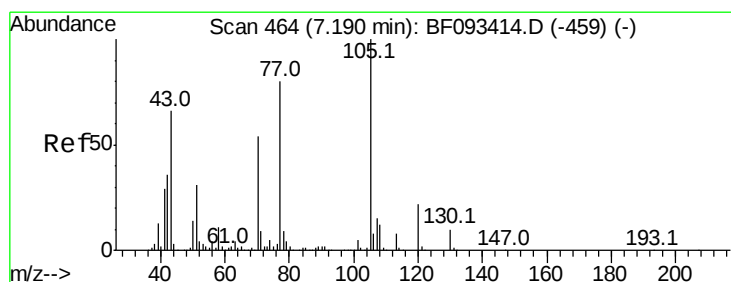
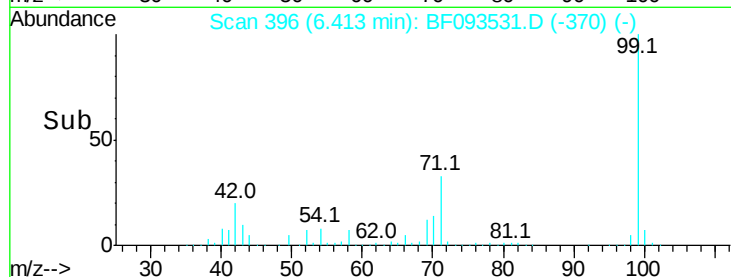
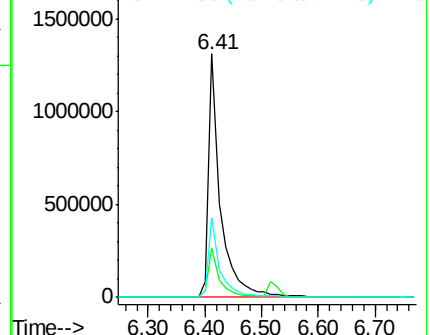
99 100

42 20.1 15.6 23.4

71 33.0 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: 17.39 ng

RT: 7.32 min Scan# 475

Delta R.T. 0.13 min

Lab File: BF093531.D

Acq: 10 Mar 2017 19:28

Tgt Ion: 70 Resp: 166166

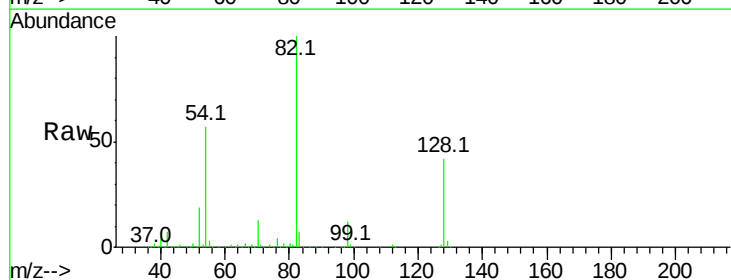
Ion Ratio Lower Upper

70 100

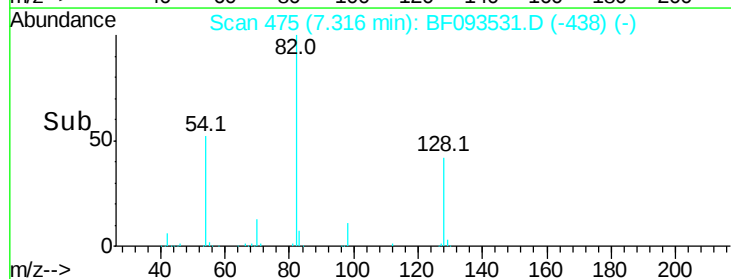
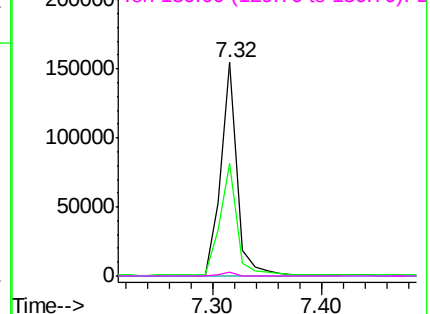
42 53.0 49.4 74.0

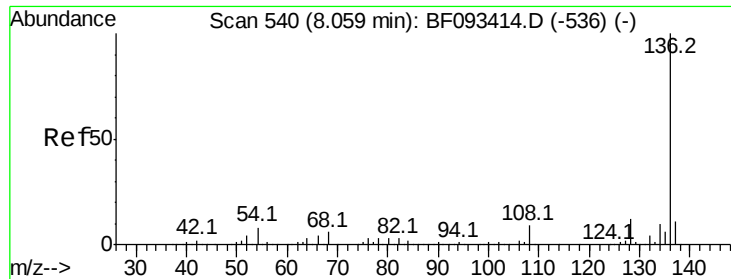
101 0.0 7.4 11.2#

130 2.0 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): E  
Ion 130.00 (129.70 to 130.70): E

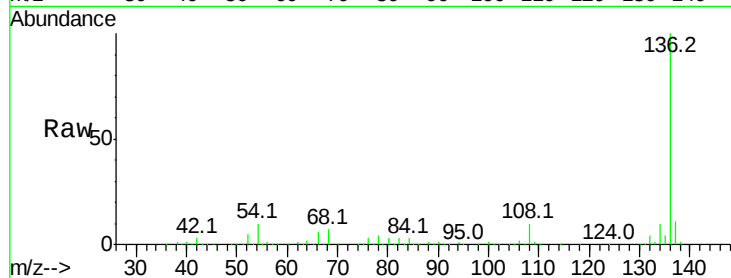




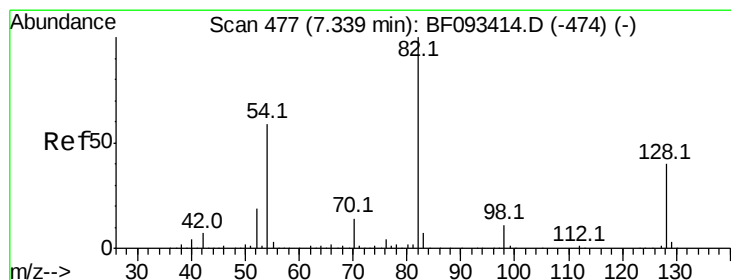
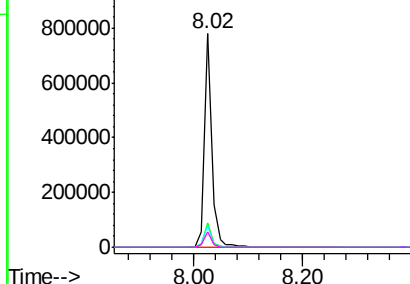
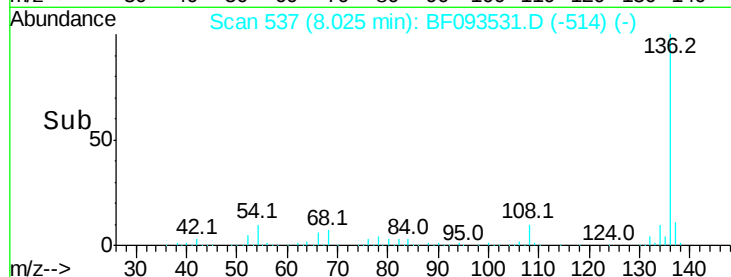
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.02 min Scan# 537  
Delta R.T. -0.03 min  
Lab File: BF093531.D  
Acq: 10 Mar 2017 19:28

Instrument :  
BNA\_F  
ClientSampleId :  
D-44

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 729178 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.4  | 8.4   | 12.6   |
| 54       | 10.3  | 4.5   | 6.7#   |
| 68       | 7.2   | 3.6   | 5.4#   |

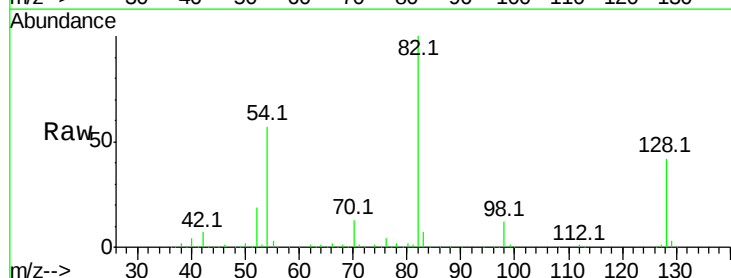


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

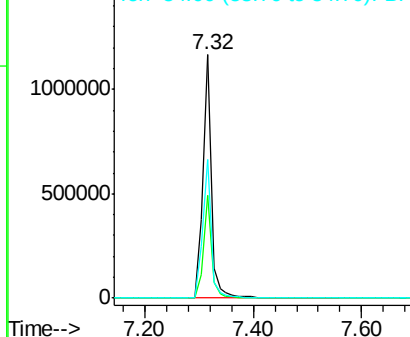
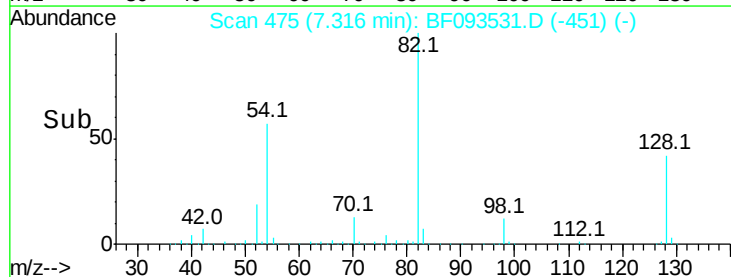


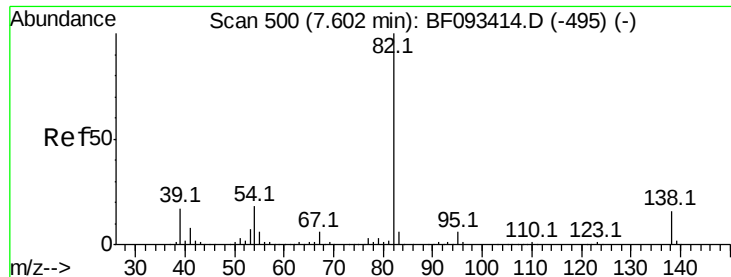
#23  
Nitrobenzene-d5  
Concen: 95.27 ng  
RT: 7.32 min Scan# 475  
Delta R.T. -0.02 min  
Lab File: BF093531.D  
Acq: 10 Mar 2017 19:28

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 82    | Resp: | 1252044 |
| Ion      | Ratio | Lower | Upper   |
| 82       | 100   |       |         |
| 128      | 42.4  | 34.6  | 52.0    |
| 54       | 57.0  | 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: 47.28 ng

RT: 7.32 min Scan# 475

Delta R.T. -0.29 min

Lab File: BF093531.D

Acq: 10 Mar 2017 19:28

Instrument :

BNA\_F

ClientSampleId :

D-44

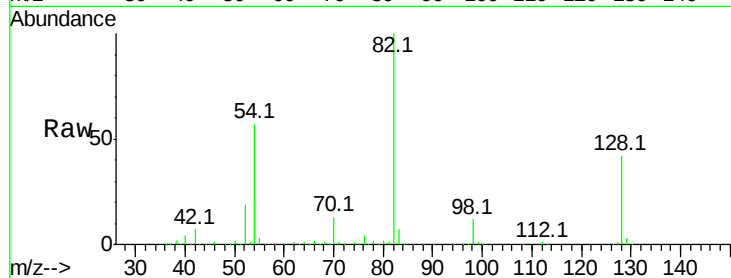
Tot Ion: 82 Resp: 1252970

Ion Ratio Lower Upper

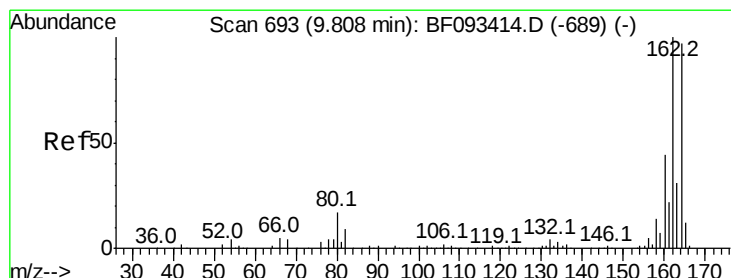
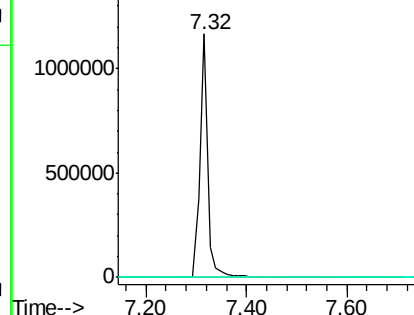
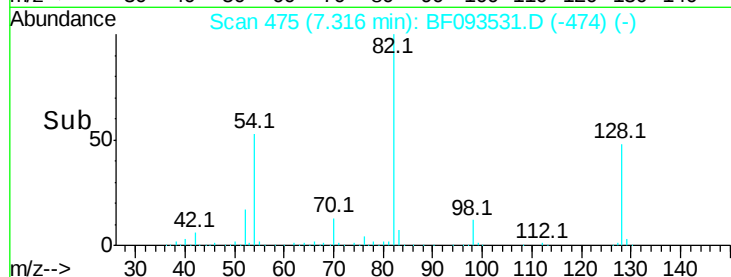
82 100

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: 9.77 min Scan# 690

Delta R.T. -0.03 min

Lab File: BF093531.D

Acq: 10 Mar 2017 19:28

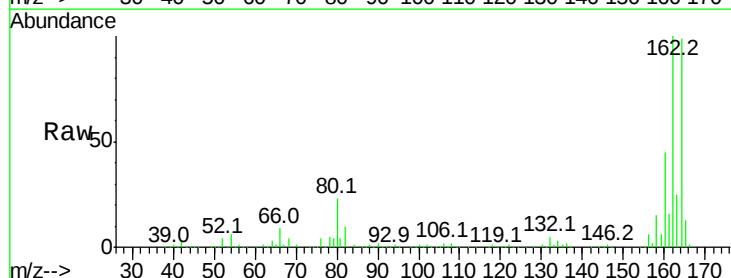
Tgt Ion:164 Resp: 350996

Ion Ratio Lower Upper

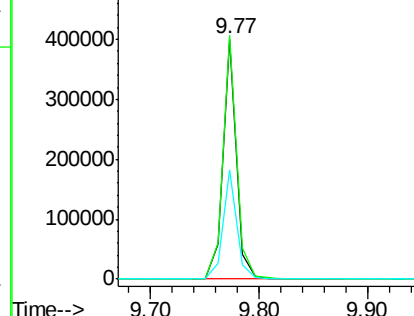
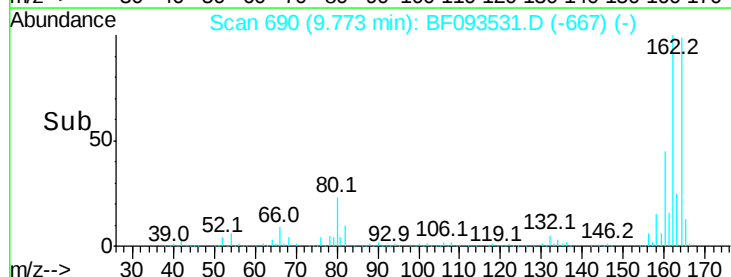
164 100

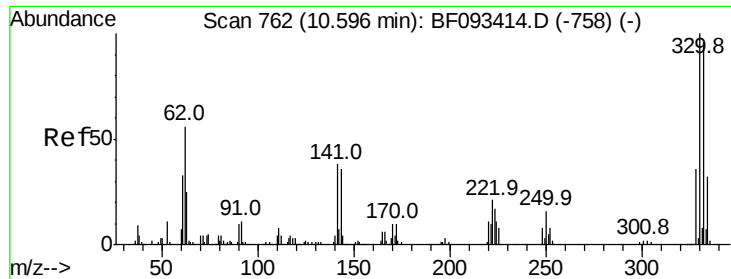
162 101.3 80.2 120.2

160 45.6 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

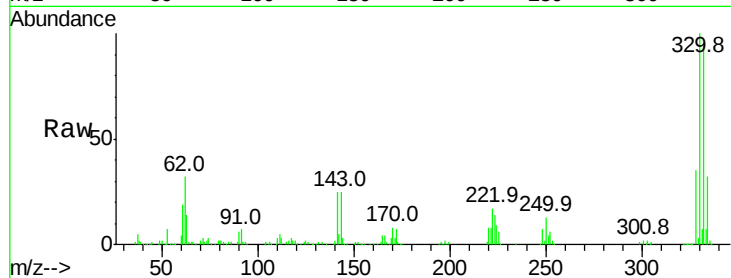




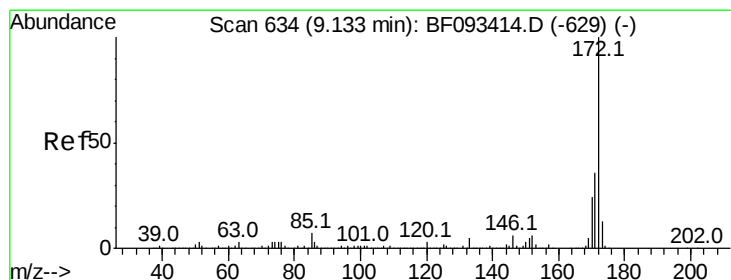
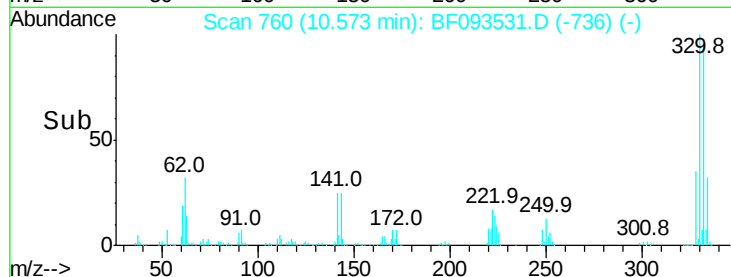
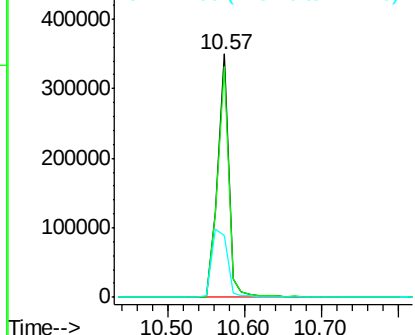
#41  
 2,4,6-Tribromophenol  
 Concen: 157.82 ng  
 RT: 10.57 min Scan# 760  
 Delta R.T. -0.02 min  
 Lab File: BF093531.D  
 Acq: 10 Mar 2017 19:28

Instrument :  
 BNA\_F  
 ClientSampleId :  
 D-44

Tot Ion:330 Resp: 360912  
 Ion Ratio Lower Upper  
 330 100  
 332 96.7 77.4 116.2  
 141 39.3 34.1 51.1

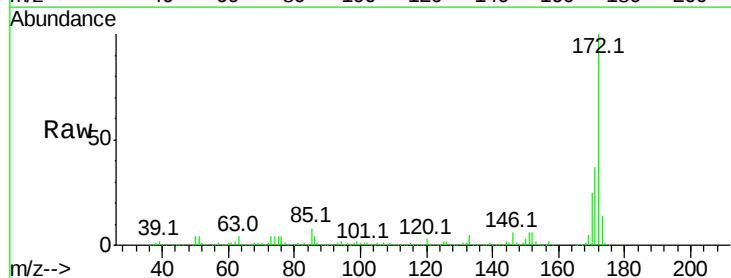


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

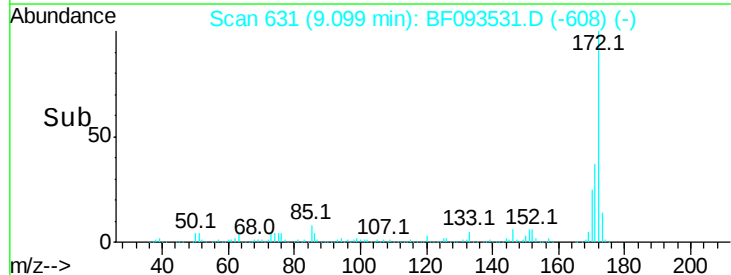
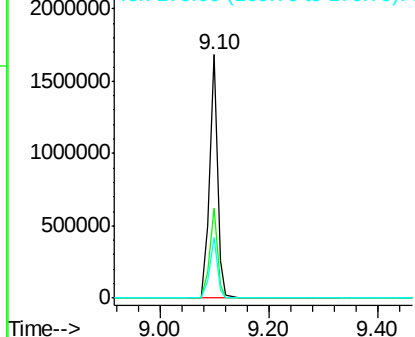


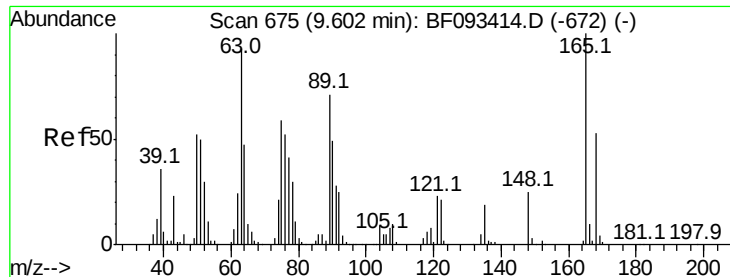
#44  
 2-Fluorobiphenyl  
 Concen: 90.83 ng  
 RT: 9.10 min Scan# 631  
 Delta R.T. -0.03 min  
 Lab File: BF093531.D  
 Acq: 10 Mar 2017 19:28

Tgt Ion:172 Resp: 1713956  
 Ion Ratio Lower Upper  
 172 100  
 171 36.9 29.4 44.0  
 170 24.9 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

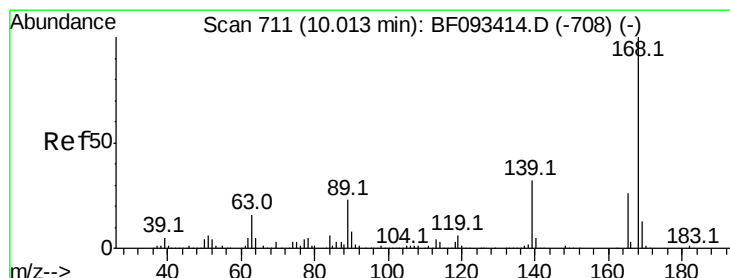
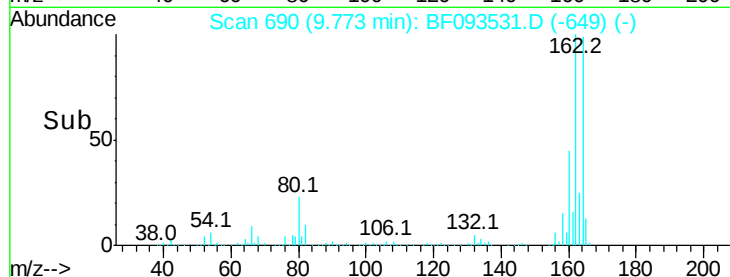
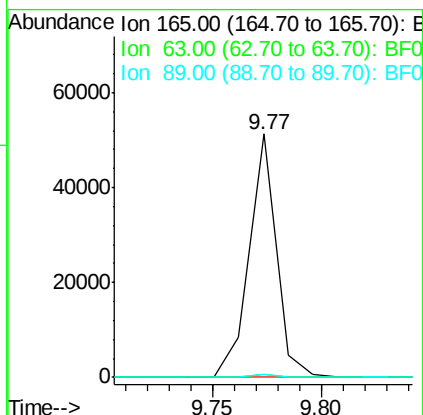
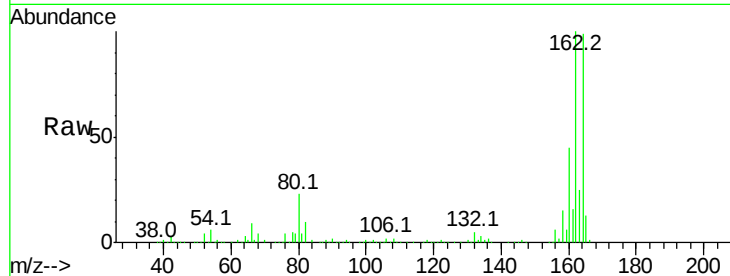




#50  
2,6-Dinitrotoluene  
Concen: 8.72 ng  
RT: 9.77 min Scan# 690  
Delta R.T. 0.17 min  
Lab File: BF093531.D  
Acq: 10 Mar 2017 19:28

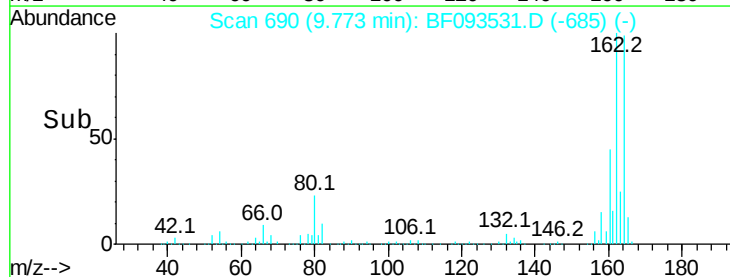
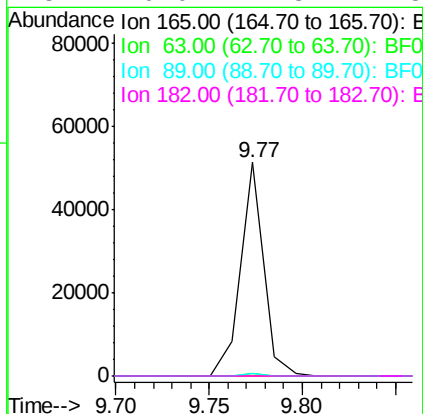
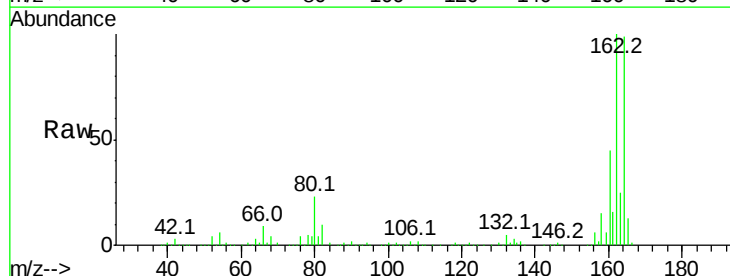
Instrument :  
BNA\_F  
ClientSampleId :  
D-44

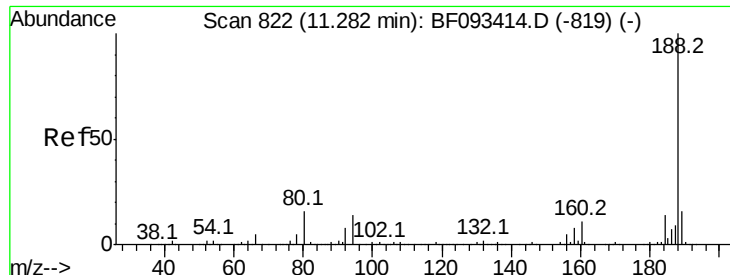
Tot Ion:165 Resp: 44548  
Ion Ratio Lower Upper  
165 100  
63 1.4 36.2 54.4#  
89 1.3 40.2 60.4#



#56  
2,4-Dinitrotoluene  
Concen: 7.10 ng  
RT: 9.77 min Scan# 690  
Delta R.T. -0.24 min  
Lab File: BF093531.D  
Acq: 10 Mar 2017 19:28

Tgt Ion:165 Resp: 44550  
Ion Ratio Lower Upper  
165 100  
63 1.4 40.2 60.4#  
89 1.3 62.5 93.7#  
182 0.0 1.8 2.8#

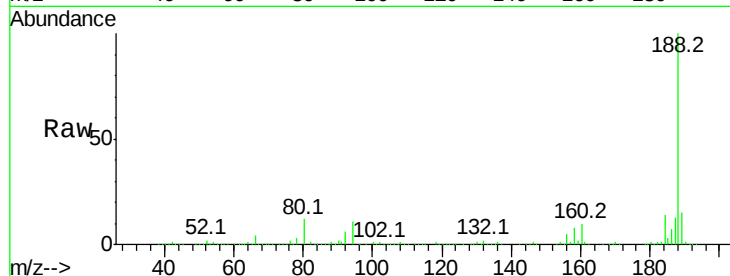




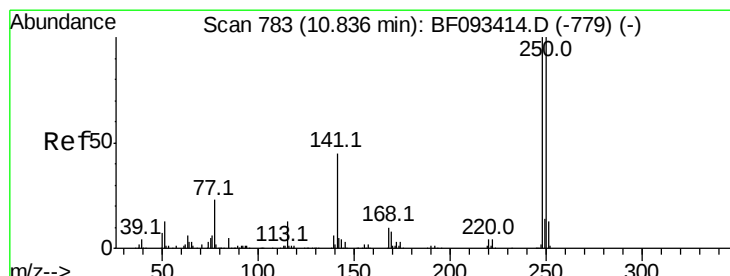
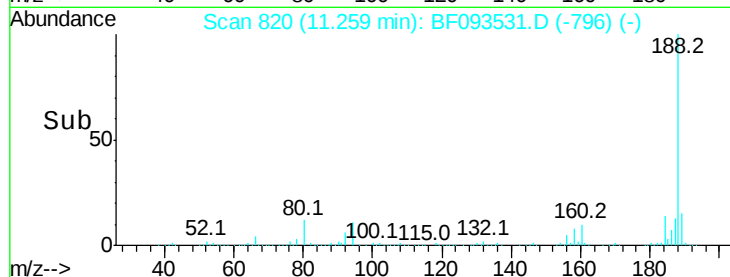
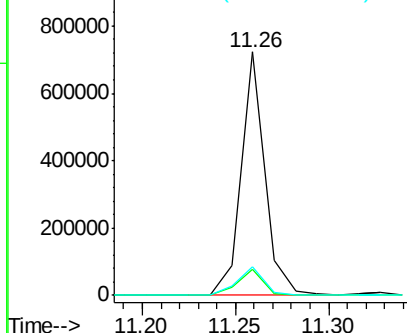
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.26 min Scan# 820  
 Delta R.T. -0.02 min  
 Lab File: BF093531.D  
 Acq: 10 Mar 2017 19:28

Instrument :  
 BNA\_F  
 ClientSampleId :  
 D-44

Tot Ion:188 Resp: 643182  
 Ion Ratio Lower Upper  
 188 100  
 94 10.8 10.0 15.0  
 80 11.6 11.2 16.8

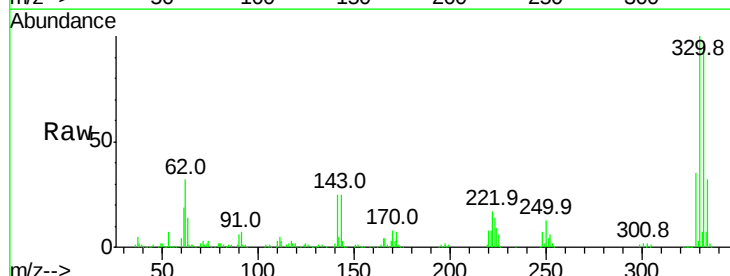


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0

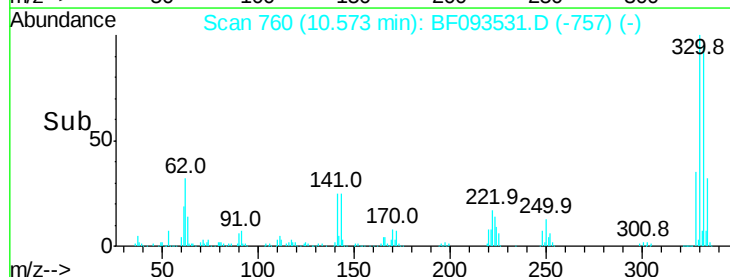
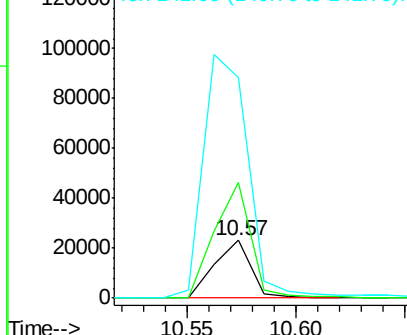


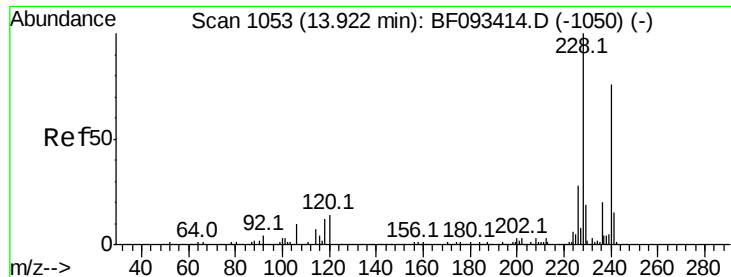
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.93 ng  
 RT: 10.57 min Scan# 760  
 Delta R.T. -0.26 min  
 Lab File: BF093531.D  
 Acq: 10 Mar 2017 19:28

Tgt Ion:248 Resp: 26725  
 Ion Ratio Lower Upper  
 248 100  
 250 200.4 76.9 115.3#  
 141 383.2 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

Chrvsene-d12

Concen: 20.00 ng

RT: 13.90 min Scan# 1051

Delta R.T. -0.02 min

Lab File: BF093531.D

Acq: 10 Mar 2017 19:28

Instrument :

BNA\_F

ClientSampleId :

D-44

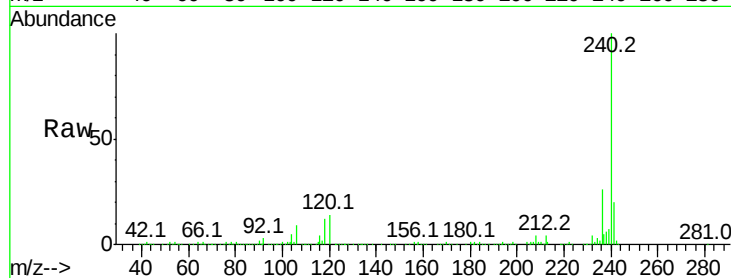
Tot Ion:240 Resp: 527321

Ion Ratio Lower Upper

240 100

120 13.7 12.9 19.3

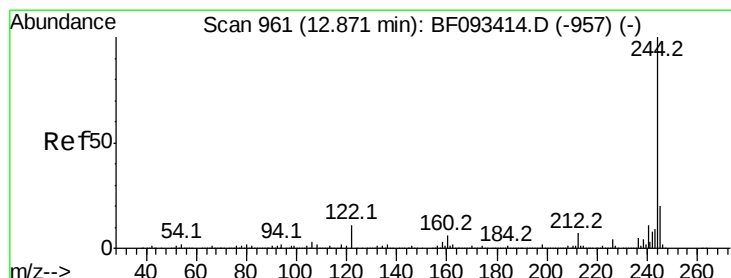
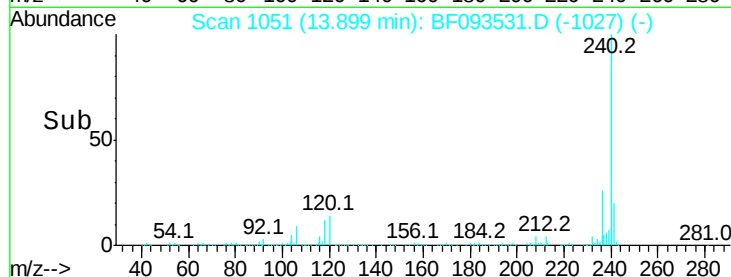
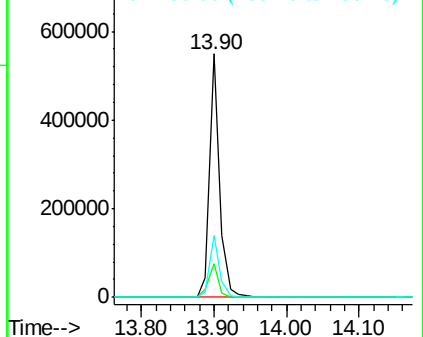
236 25.6 20.9 31.3



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: 81.68 ng

RT: 12.85 min Scan# 959

Delta R.T. -0.02 min

Lab File: BF093531.D

Acq: 10 Mar 2017 19:28

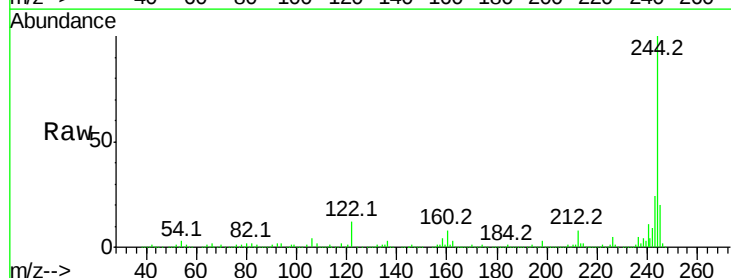
Tgt Ion:244 Resp: 1656629

Ion Ratio Lower Upper

244 100

212 7.8 6.2 9.2

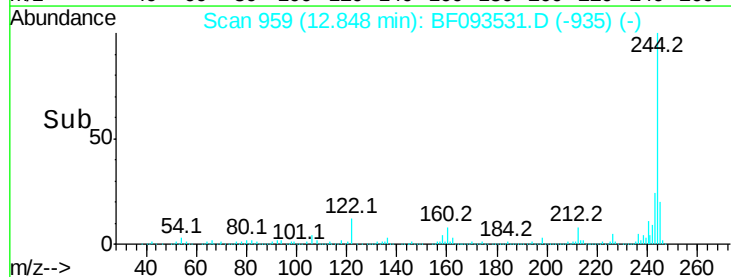
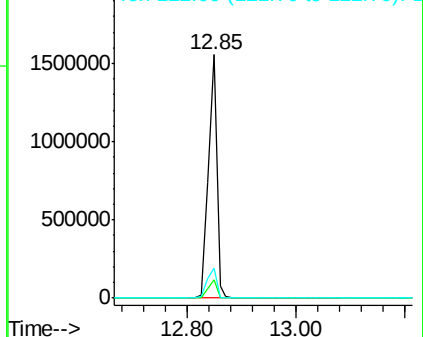
122 12.2 11.4 17.2

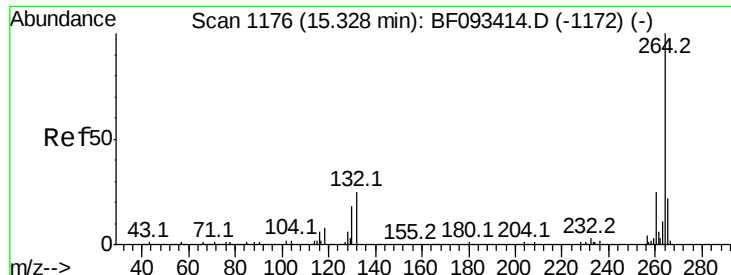


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



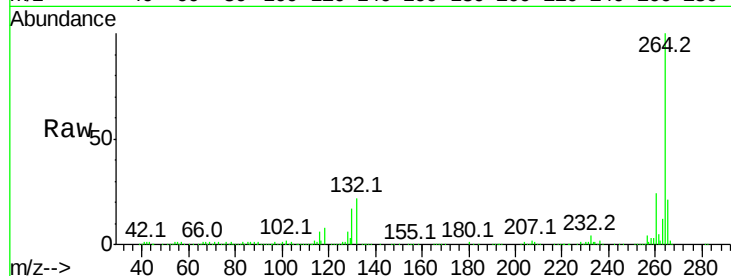


#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.31 min Scan# 1174  
Delta R.T. -0.02 min  
Lab File: BF093531.D  
Acq: 10 Mar 2017 19:28

Instrument :  
BNA\_F  
ClientSampleId :  
D-44

Tot Ion: 264 Resp: 395853  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.3  | 19.2  | 28.8  |
| 265 | 21.2  | 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

