

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102717\  
 Data File : BF099904.D  
 Acq On : 28 Oct 2017 4:43  
 Operator : SJ/JU  
 Sample : I6029-01  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 28 05:50:36 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 27 15:58:57 2017  
 Response via : Initial Calibration

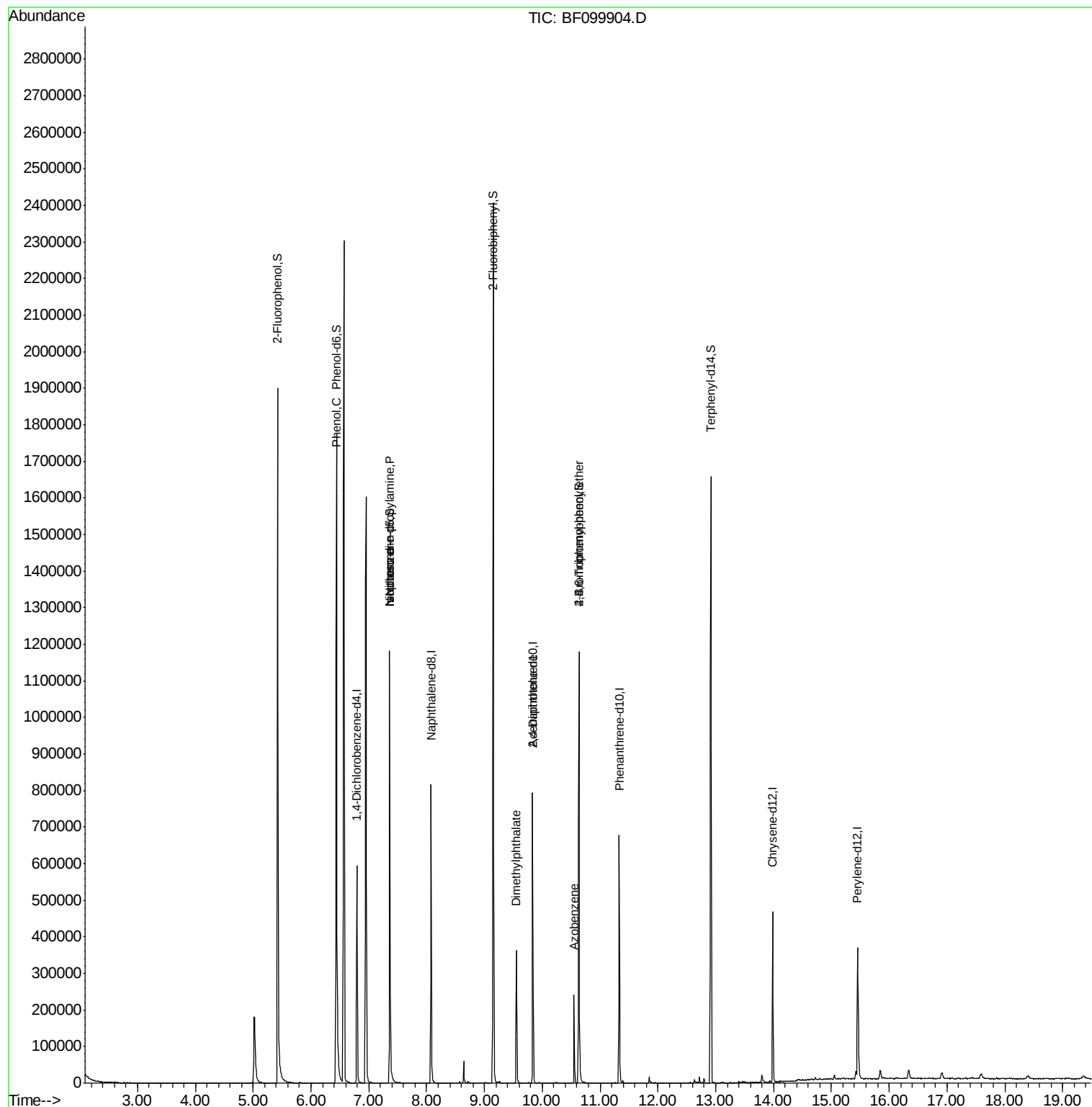
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.79  | 152  | 95748    | 20.00  | ng    | 0.00      |
| 21) Naphthalene-d8             | 8.07  | 136  | 391022   | 20.00  | ng    | 0.00      |
| 38) Acenaphthene-d10           | 9.83  | 164  | 171301   | 20.00  | ng    | 0.00      |
| 63) Phenanthrene-d10           | 11.33 | 188  | 276972   | 20.00  | ng    | 0.00      |
| 75) Chrysene-d12               | 13.99 | 240  | 167058   | 20.00  | ng    | 0.00      |
| 86) Perylene-d12               | 15.46 | 264  | 179025   | 20.00  | ng    | 0.00      |
| System Monitoring Compounds    |       |      |          |        |       |           |
| 5) 2-Fluorophenol              | 5.42  | 112  | 676606   | 110.94 | ng    | 0.00      |
| 7) Phenol-d6                   | 6.44  | 99   | 810494   | 112.08 | ng    | 0.00      |
| 23) Nitrobenzene-d5            | 7.36  | 82   | 452887   | 74.57  | ng    | 0.00      |
| 41) 2,4,6-Tribromophenol       | 10.63 | 330  | 152596   | 97.75  | ng    | 0.00      |
| 44) 2-Fluorobiphenyl           | 9.16  | 172  | 825917   | 74.39  | ng    | 0.00      |
| 78) Terphenyl-d14              | 12.92 | 244  | 521551   | 68.23  | ng    | 0.00      |
| Target Compounds               |       |      |          |        |       |           |
| 10) Phenol                     | 6.45  | 94   | 45981    | 5.79   | ng    | Qvalue 94 |
| 19) n-Nitroso-di-n-propylamine | 7.36  | 70   | 56403    | 13.31  | ng    | # 72      |
| 25) Isophorone                 | 7.36  | 82   | 452887   | 41.09  | ng    | # 64      |
| 49) Dimethylphthalate          | 9.55  | 163  | 160813   | 11.85  | ng    | 100       |
| 56) 2,4-Dinitrotoluene         | 9.83  | 165  | 21994    | 6.40   | ng    | # 22      |
| 62) Azobenzene                 | 10.55 | 77   | 36968    | 3.33   | ng    | # 1       |
| 66) 4-Bromophenyl-phenylether  | 10.63 | 248  | 10100    | 3.46   | ng    | # 1       |

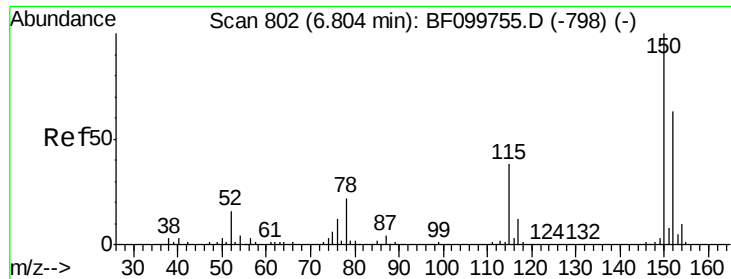
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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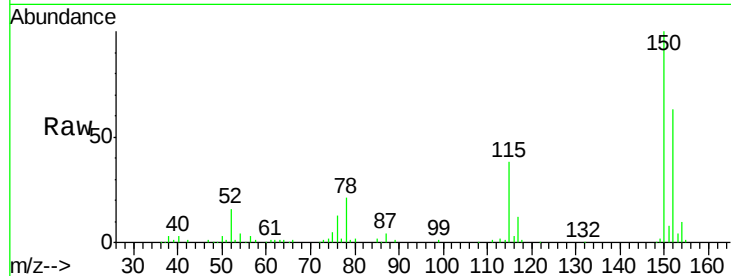


#1

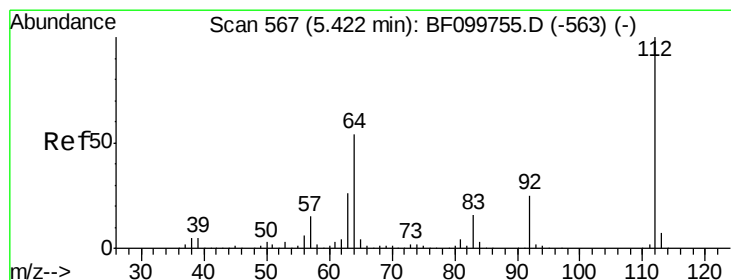
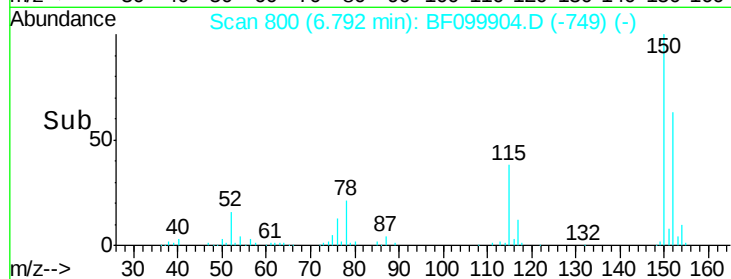
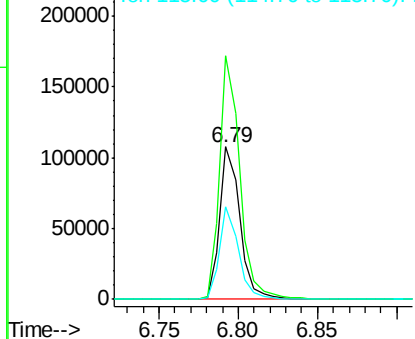
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.79 min Scan# 800  
Delta R.T. -0.00 min  
Lab File: BF099904.D  
Acq: 28 Oct 2017 4:43

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 95748  
Ion Ratio Lower Upper  
152 100  
150 160.0 124.6 186.8  
115 61.0 50.1 75.1



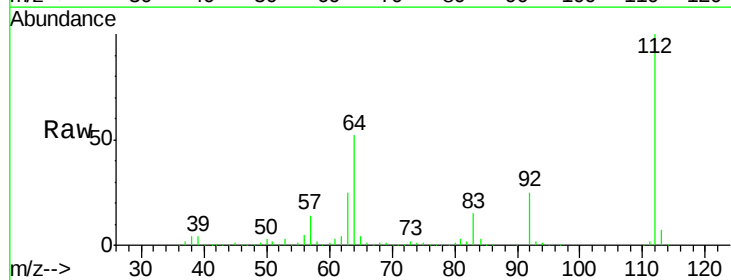
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



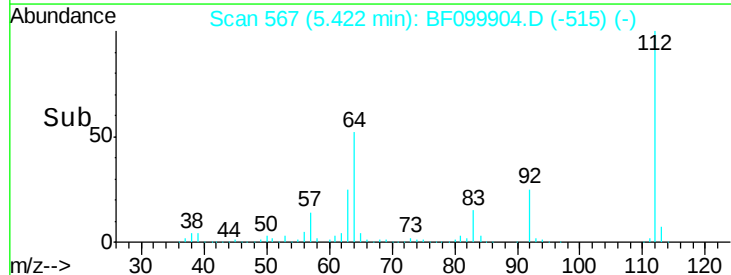
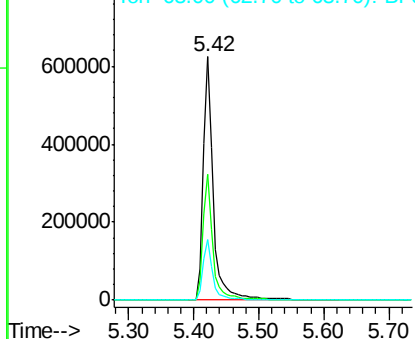
#5

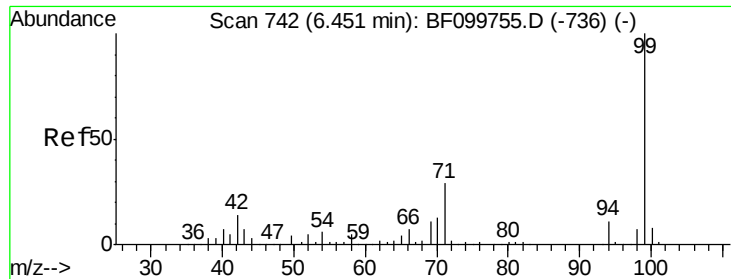
2-Fluorophenol  
Concen: 110.94 ng  
RT: 5.42 min Scan# 567  
Delta R.T. 0.01 min  
Lab File: BF099904.D  
Acq: 28 Oct 2017 4:43

Tgt Ion:112 Resp: 676606  
Ion Ratio Lower Upper  
112 100  
64 51.7 47.9 71.9  
63 24.7 23.7 35.5



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: 112.08 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.00 min

Lab File: BF099904.D

Acq: 28 Oct 2017 4:43

Instrument :

BNA\_F

ClientSampled :

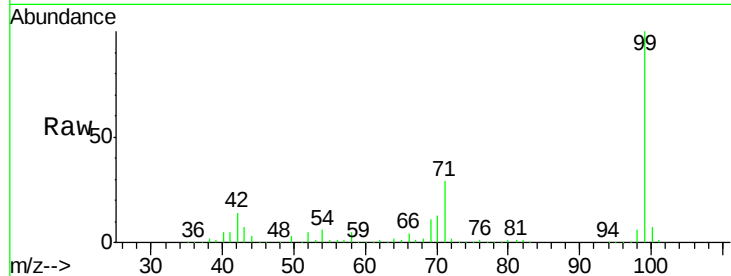
Tot Ion: 99 Resp: 810494

Ion Ratio Lower Upper

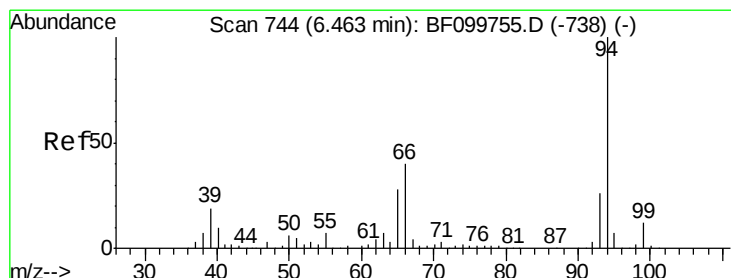
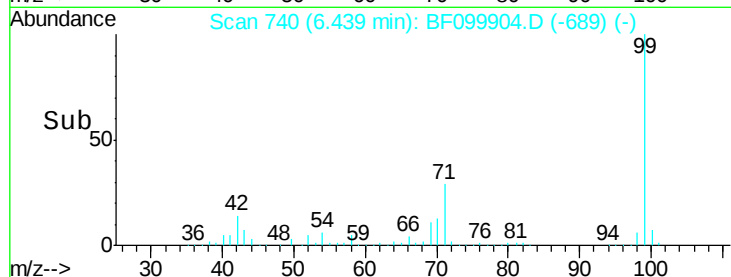
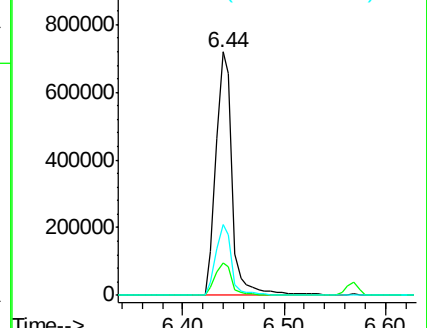
99 100

42 13.5 14.5 21.7#

71 29.0 25.4 38.0



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



#10

Phenol

Concen: 5.79 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.01 min

Lab File: BF099904.D

Acq: 28 Oct 2017 4:43

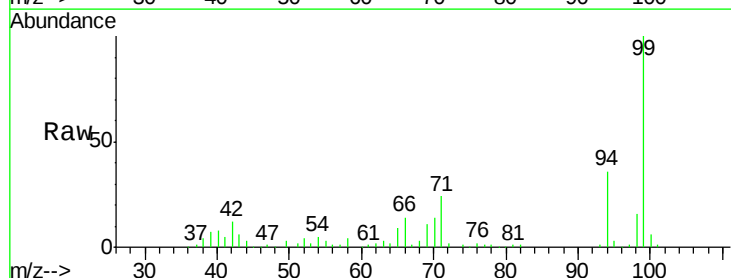
Tgt Ion: 94 Resp: 45981

Ion Ratio Lower Upper

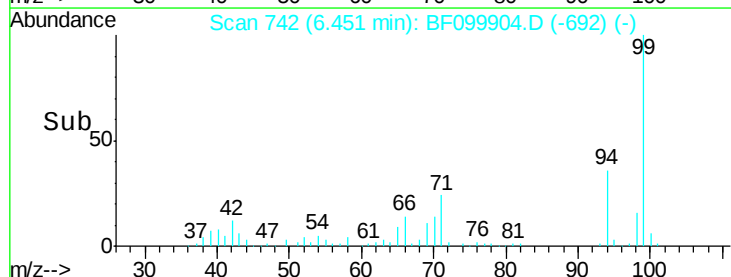
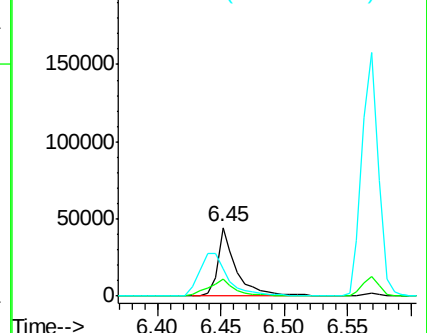
94 100

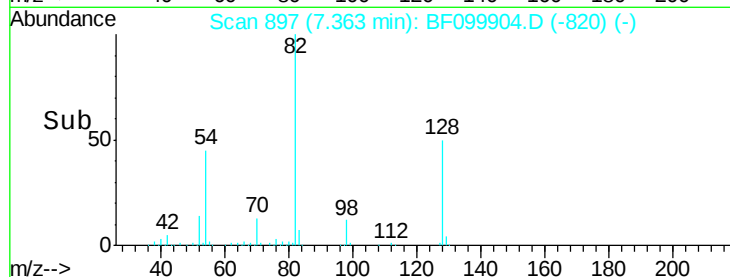
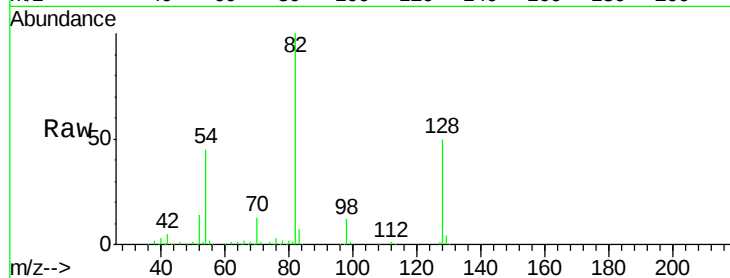
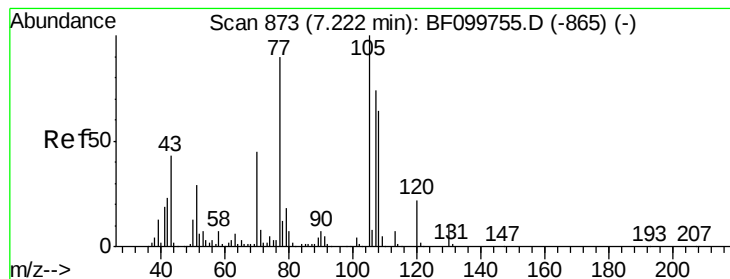
65 24.8 7.9 47.9

66 39.4 16.2 56.2



Abundance Ion 94.00 (93.70 to 94.70): BF0  
Ion 65.00 (64.70 to 65.70): BF0  
Ion 66.00 (65.70 to 66.70): BF0





#19

n-Nitroso-di-n-propylamine

Concen: 13.31 ng

RT: 7.36 min Scan# 897

Delta R.T. 0.15 min

Lab File: BF099904.D

Acq: 28 Oct 2017 4:43

Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 70 Resp: 56403

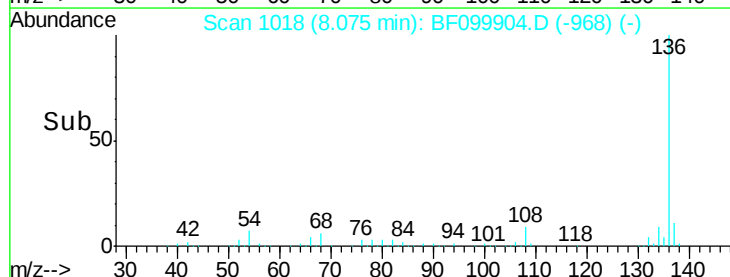
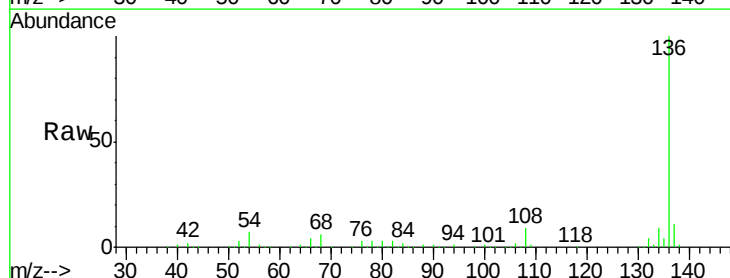
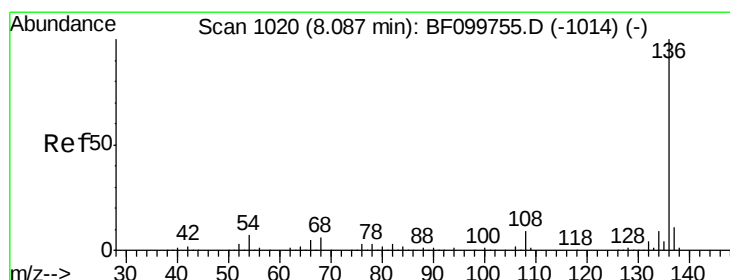
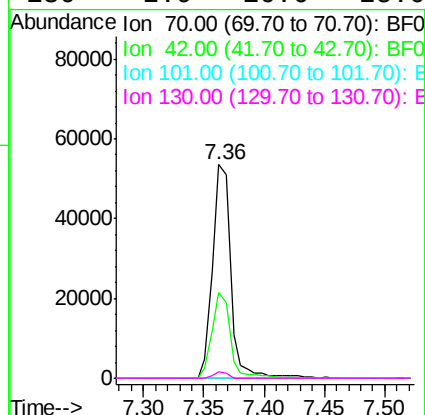
Ion Ratio Lower Upper

70 100

42 40.5 47.5 71.3#

101 0.0 7.4 11.2#

130 2.9 16.6 25.0#



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.07 min Scan# 1018

Delta R.T. -0.01 min

Lab File: BF099904.D

Acq: 28 Oct 2017 4:43

Tgt Ion: 136 Resp: 391022

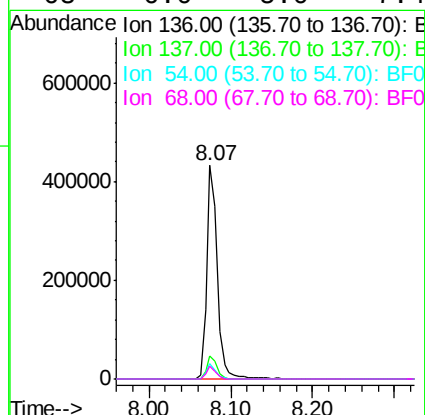
Ion Ratio Lower Upper

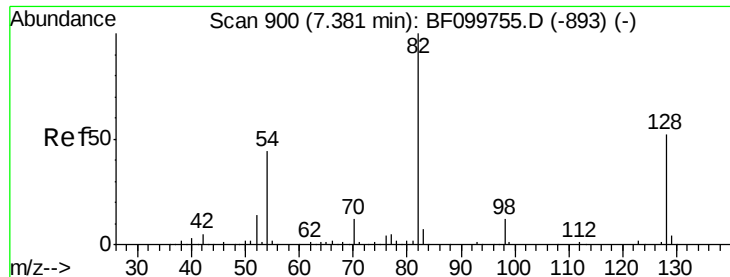
136 100

137 11.0 8.9 13.3

54 6.9 6.6 9.8

68 6.0 5.0 7.4

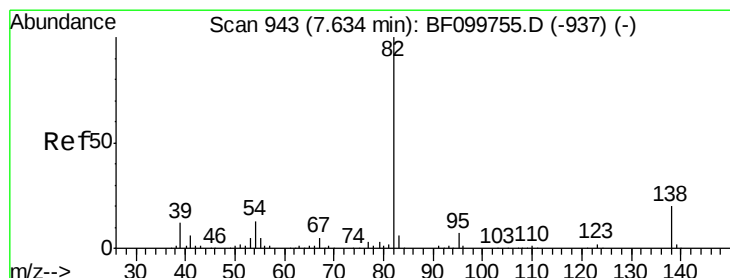
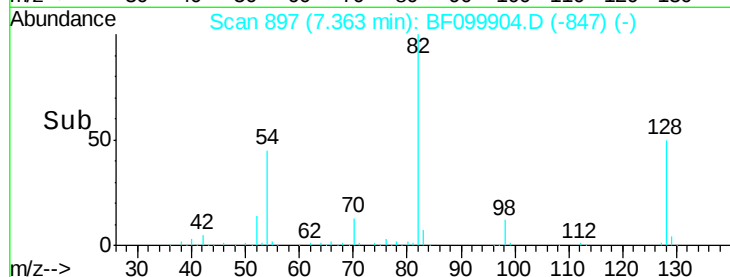
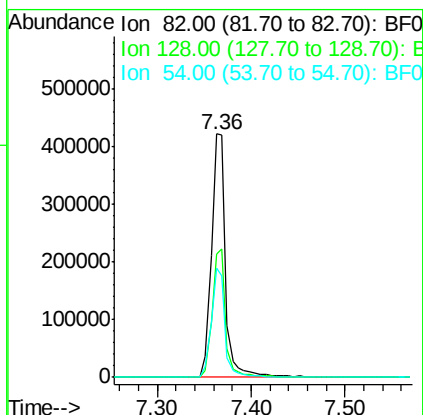
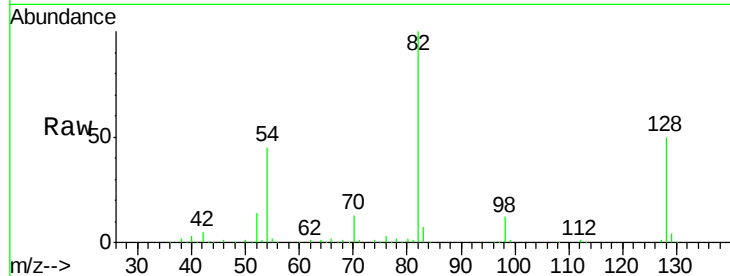




#23  
Nitrobenzene-d5  
Concen: 74.57 ng  
RT: 7.36 min Scan# 897  
Delta R.T. -0.01 min  
Lab File: BF099904.D  
Acq: 28 Oct 2017 4:43

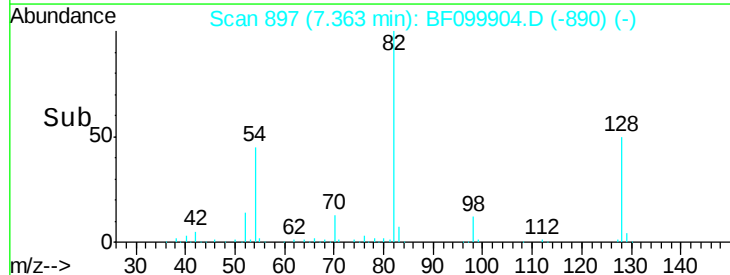
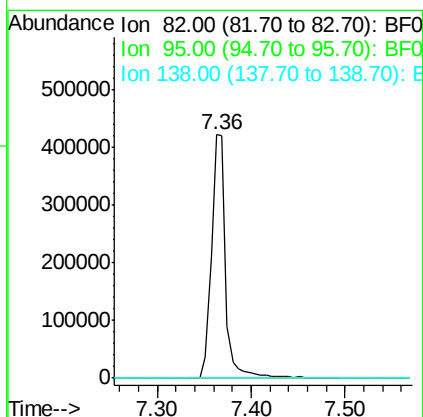
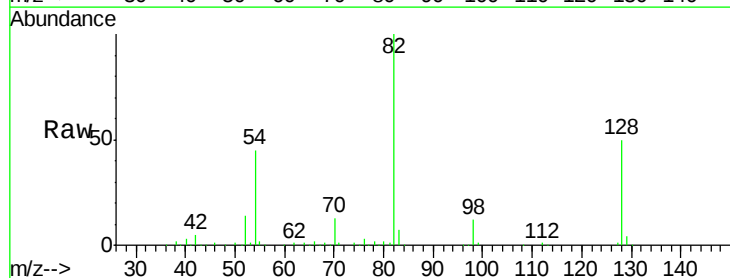
Instrument :  
BNA\_F  
ClientSampleId :

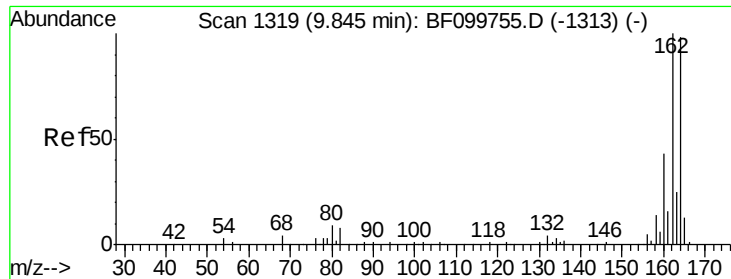
Tot Ion: 82 Resp: 452887  
Ion Ratio Lower Upper  
82 100  
128 50.4 36.1 54.1  
54 44.9 41.4 62.2



#25  
Isophorone  
Concen: 41.09 ng  
RT: 7.36 min Scan# 897  
Delta R.T. -0.26 min  
Lab File: BF099904.D  
Acq: 28 Oct 2017 4:43

Tgt Ion: 82 Resp: 452887  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.2 7.8#  
138 0.0 14.9 22.3#

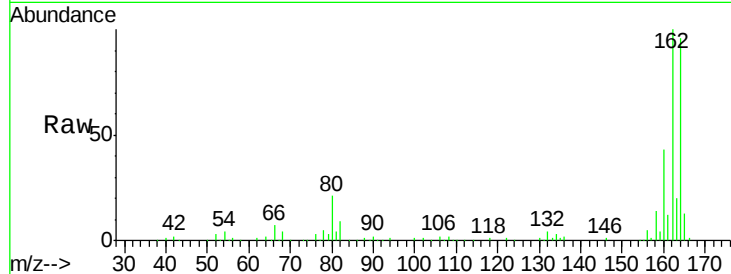




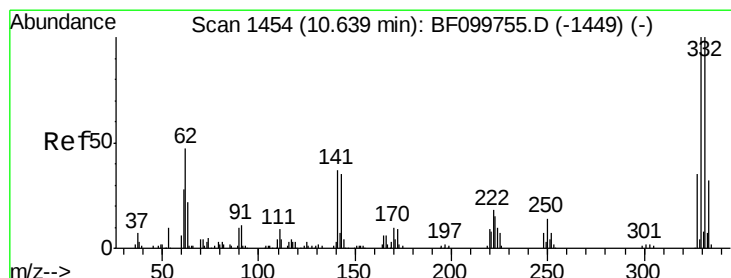
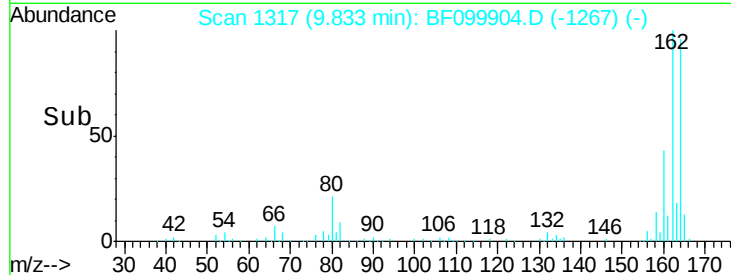
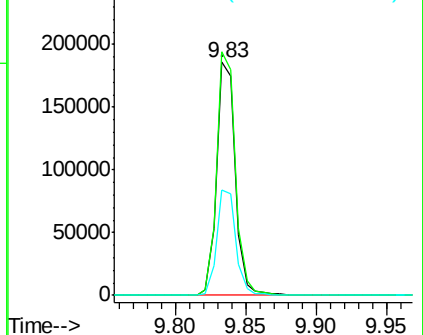
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.83 min Scan# 1317  
 Delta R.T. -0.01 min  
 Lab File: BF099904.D  
 Acq: 28 Oct 2017 4:43

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:164 Resp: 171301  
 Ion Ratio Lower Upper  
 164 100  
 162 104.4 86.1 129.1  
 160 45.0 38.3 57.5

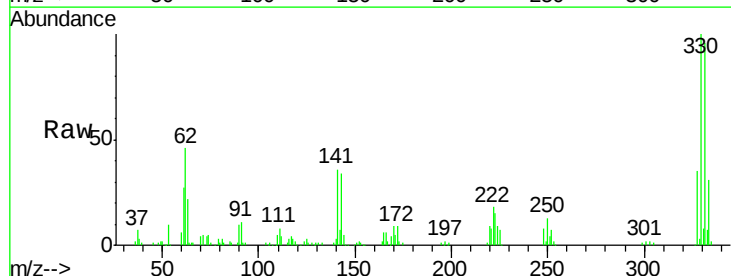


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

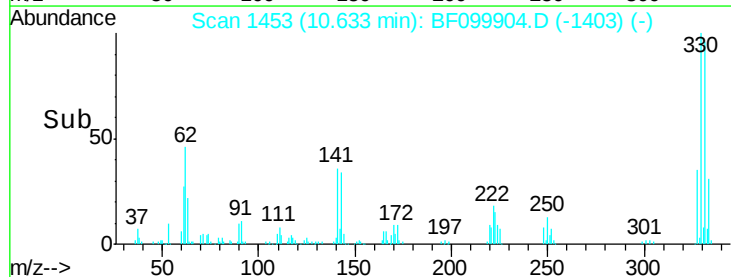
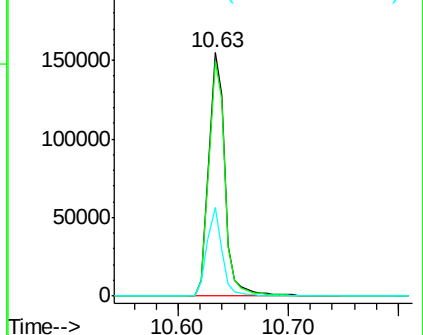


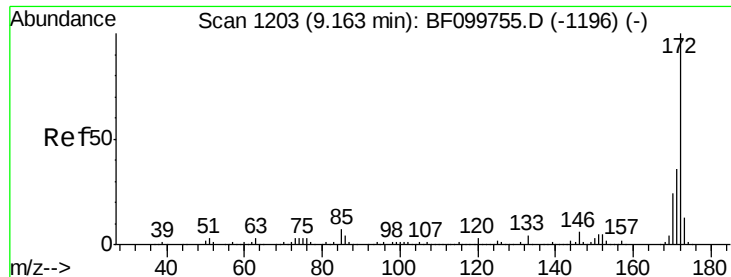
#41  
 2,4,6-Tribromophenol  
 Concen: 97.75 ng  
 RT: 10.63 min Scan# 1453  
 Delta R.T. -0.01 min  
 Lab File: BF099904.D  
 Acq: 28 Oct 2017 4:43

Tgt Ion:330 Resp: 152596  
 Ion Ratio Lower Upper  
 330 100  
 332 96.6 77.0 115.6  
 141 34.0 29.9 44.9



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

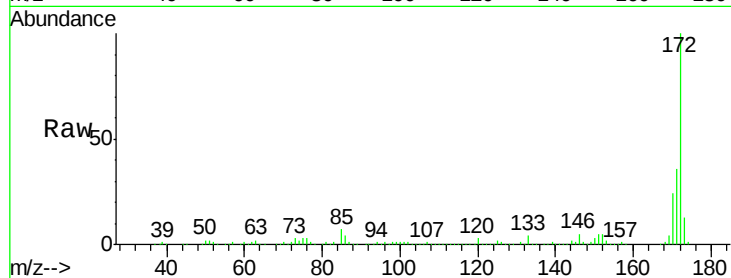




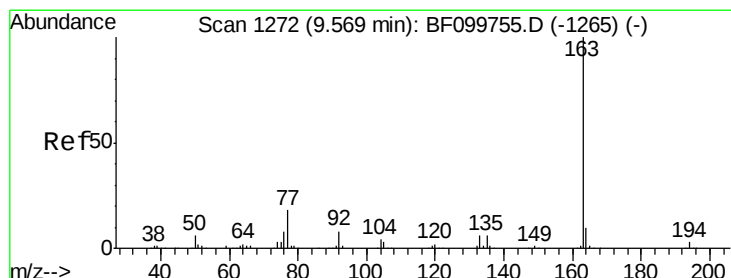
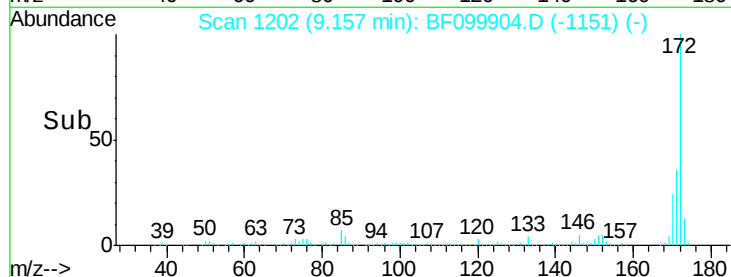
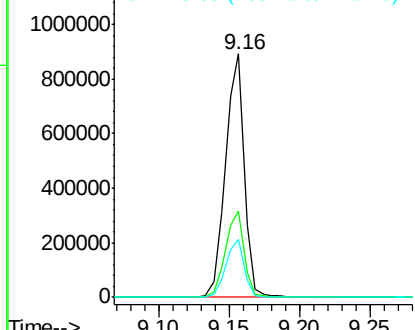
#44  
2-Fluorobiphenyl  
Concen: 74.39 ng  
RT: 9.16 min Scan# 1202  
Delta R.T. -0.00 min  
Lab File: BF099904.D  
Acq: 28 Oct 2017 4:43

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.6  | 29.7  | 44.5  |
| 170     | 23.7  | 19.6  | 29.4  |

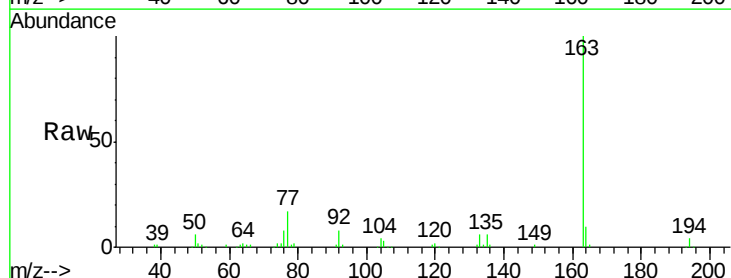


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

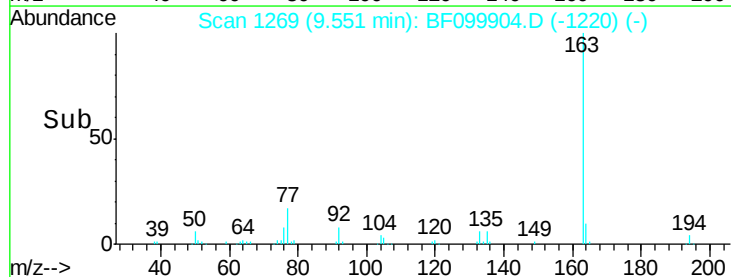
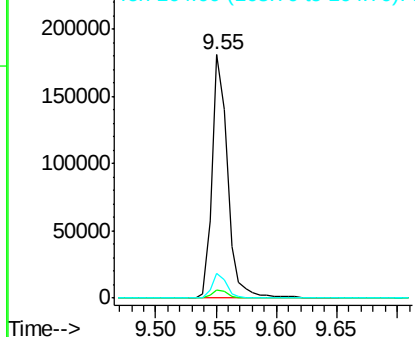


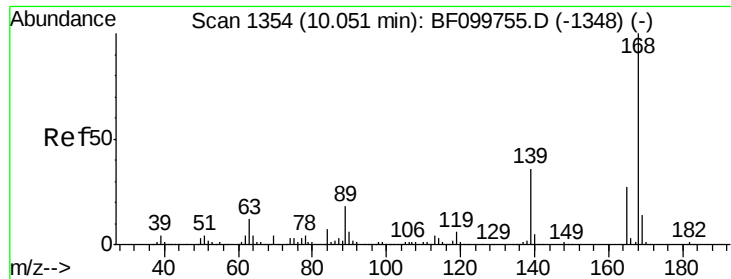
#49  
Dimethylphthalate  
Concen: 11.85 ng  
RT: 9.55 min Scan# 1269  
Delta R.T. -0.01 min  
Lab File: BF099904.D  
Acq: 28 Oct 2017 4:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.5   | 2.7   | 4.1   |
| 164     | 10.1  | 8.2   | 12.2  |



Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

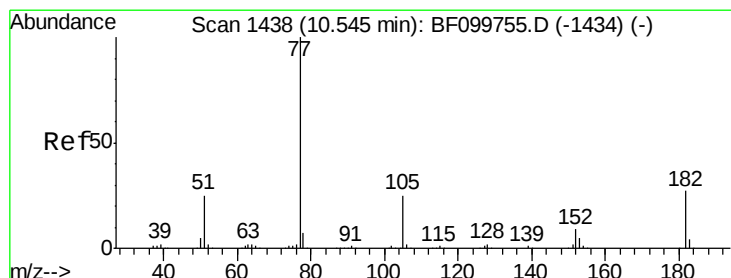
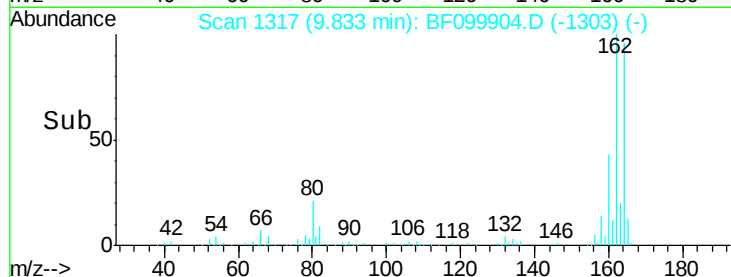
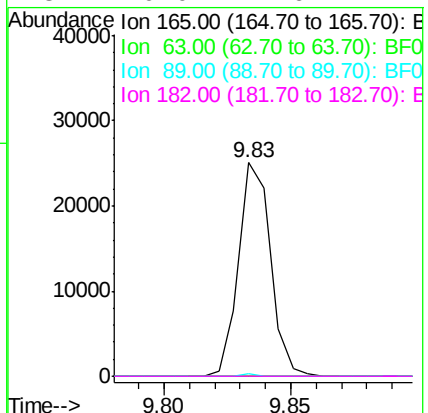
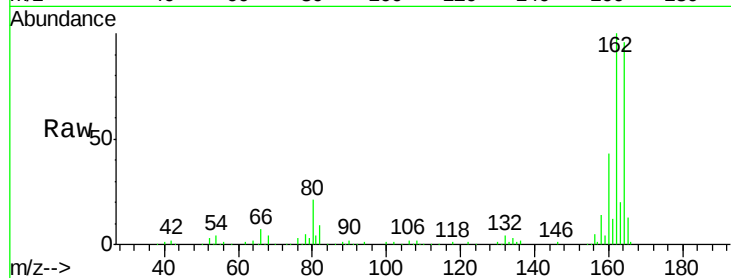




#56  
 2,4-Dinitrotoluene  
 Concen: 6.40 ng  
 RT: 9.83 min Scan# 1317  
 Delta R.T. -0.22 min  
 Lab File: BF099904.D  
 Acq: 28 Oct 2017 4:43

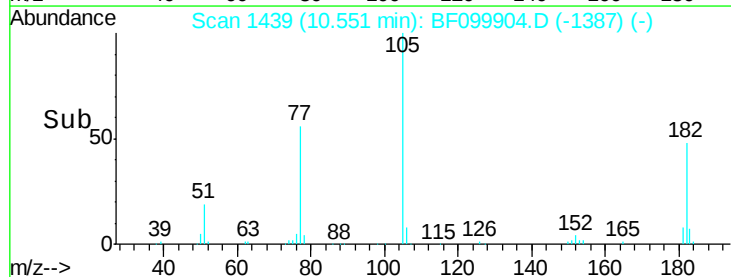
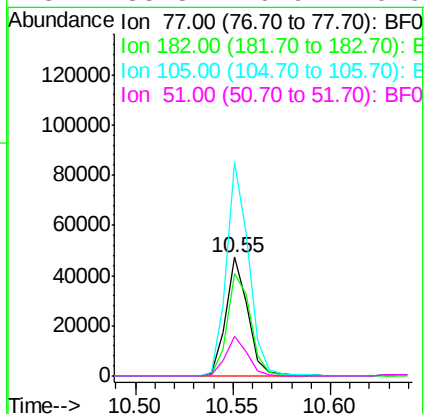
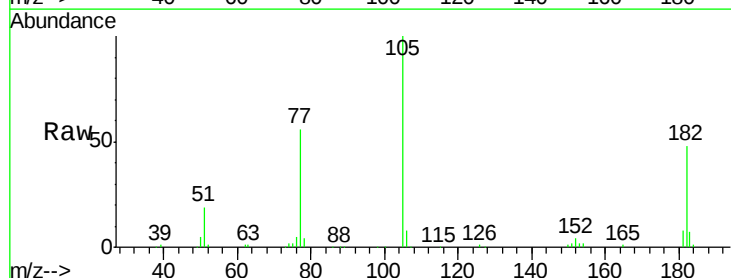
Instrument :  
 BNA\_F  
 ClientSampleId :

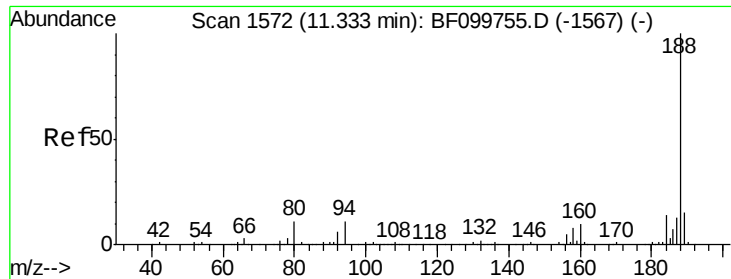
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 165   | Resp: | 21994 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 0.0   | 36.4  | 54.6# |
| 89       | 1.2   | 57.8  | 86.6# |
| 182      | 0.0   | 1.6   | 2.4#  |



#62  
 Azobenzene  
 Concen: 3.33 ng  
 RT: 10.55 min Scan# 1439  
 Delta R.T. 0.01 min  
 Lab File: BF099904.D  
 Acq: 28 Oct 2017 4:43

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 77    | Resp: | 36968 |
| Ion      | Ratio | Lower | Upper |
| 77       | 100   |       |       |
| 182      | 86.2  | 1.7   | 41.7# |
| 105      | 180.2 | 3.0   | 43.0# |
| 51       | 33.8  | 9.9   | 49.9  |

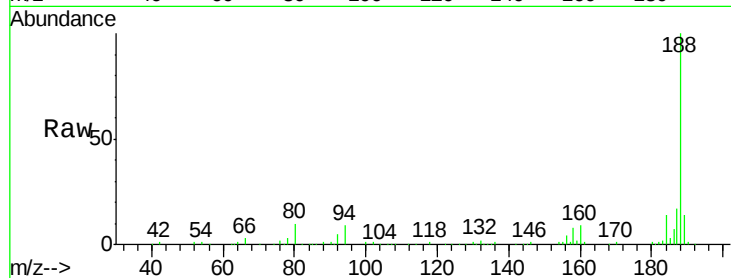




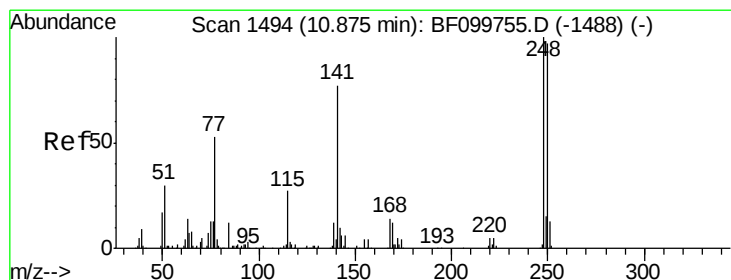
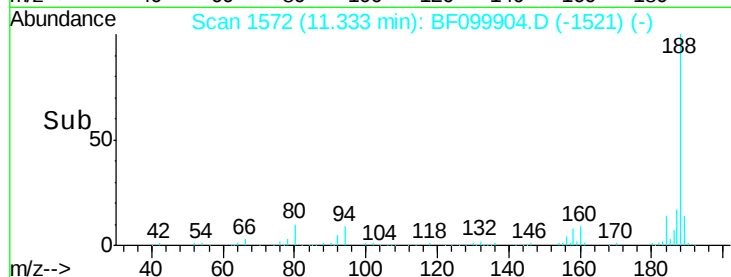
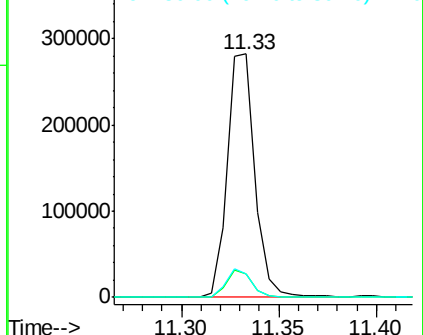
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.33 min Scan# 1572  
Delta R.T. -0.00 min  
Lab File: BF099904.D  
Acq: 28 Oct 2017 4:43

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:188 Resp: 276972  
Ion Ratio Lower Upper  
188 100  
94 9.5 8.5 12.7  
80 9.7 9.2 13.8

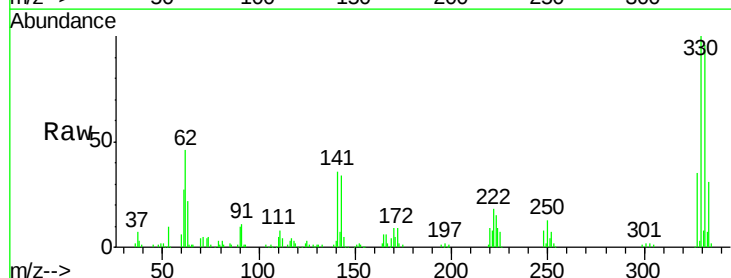


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

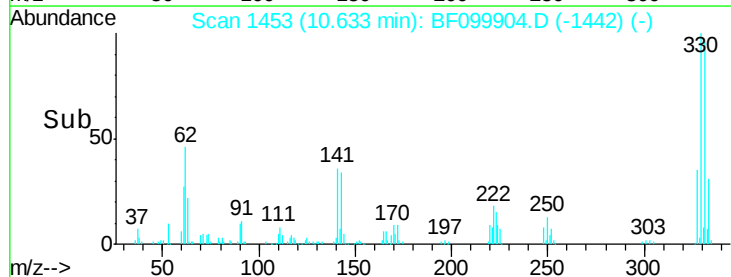
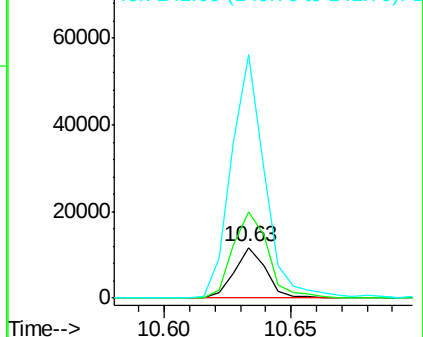


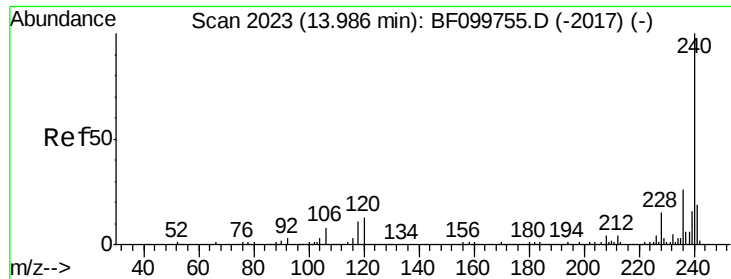
#66  
4-Bromophenyl-phenylether  
Concen: 3.46 ng  
RT: 10.63 min Scan# 1453  
Delta R.T. -0.24 min  
Lab File: BF099904.D  
Acq: 28 Oct 2017 4:43

Tgt Ion:248 Resp: 10100  
Ion Ratio Lower Upper  
248 100  
250 170.7 76.9 115.3#  
141 481.3 74.4 111.6#



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

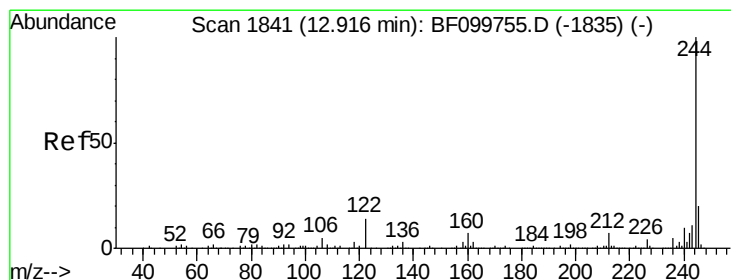
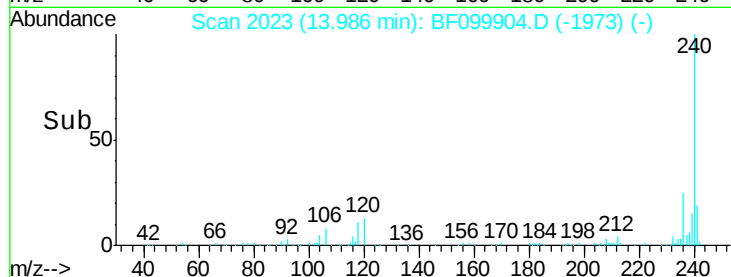
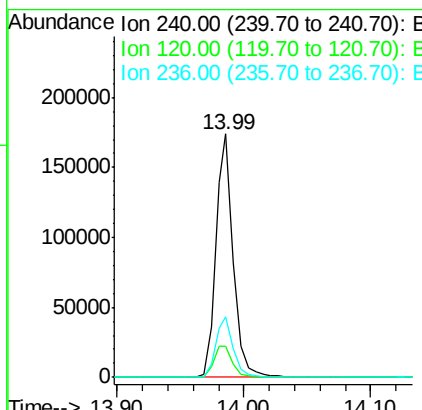
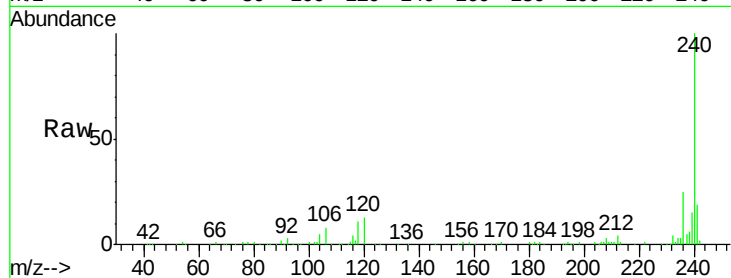




#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 13.99 min Scan# 2023  
 Delta R.T. -0.01 min  
 Lab File: BF099904.D  
 Acq: 28 Oct 2017 4:43

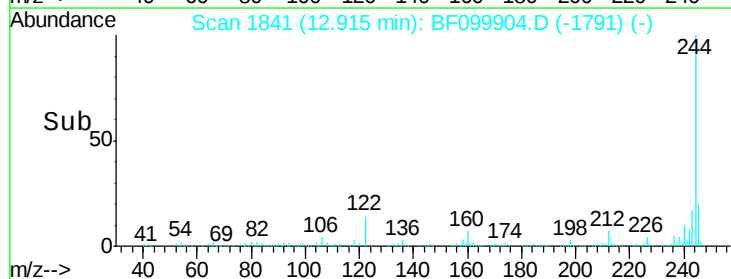
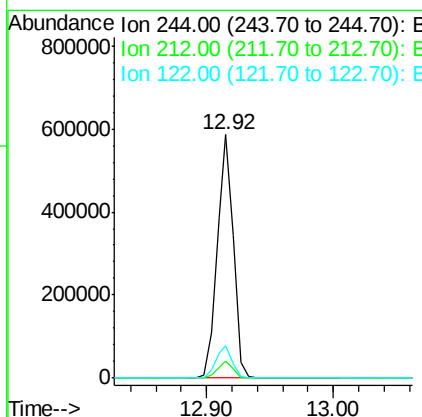
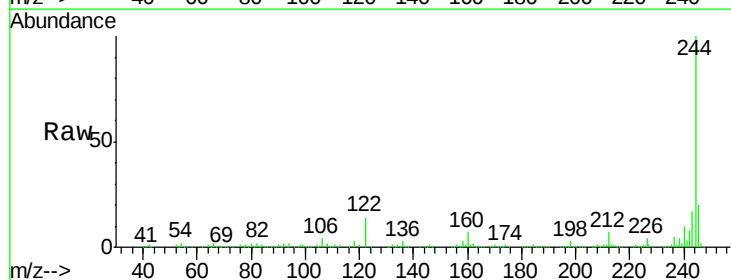
Instrument :  
 BNA\_F  
 ClientSampleId :

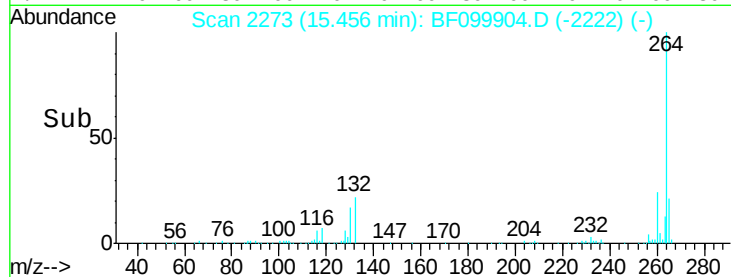
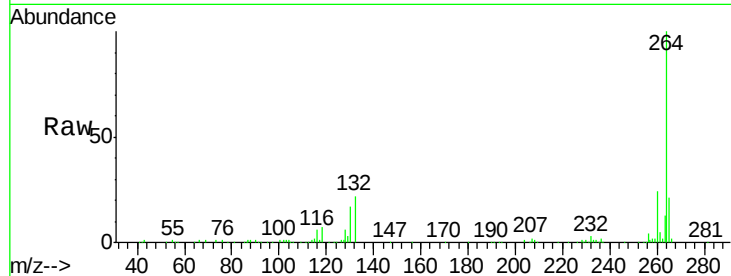
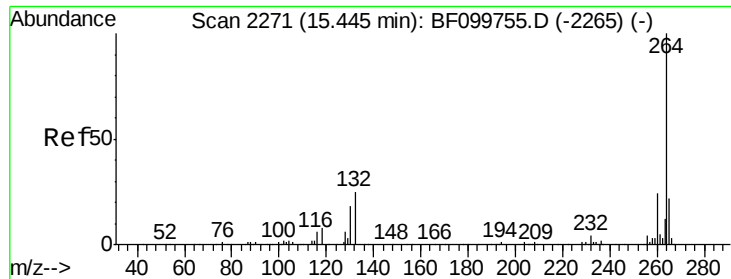
Tot Ion:240 Resp: 167058  
 Ion Ratio Lower Upper  
 240 100  
 120 12.7 9.5 14.3  
 236 25.0 20.7 31.1



#78  
 Terphenyl-d14  
 Concen: 68.23 ng  
 RT: 12.92 min Scan# 1841  
 Delta R.T. -0.01 min  
 Lab File: BF099904.D  
 Acq: 28 Oct 2017 4:43

Tgt Ion:244 Resp: 521551  
 Ion Ratio Lower Upper  
 244 100  
 212 6.8 5.4 8.0  
 122 13.5 11.0 16.4





#86  
 Pervlene-d12  
 Concen: 20.00 ng  
 RT: 15.46 min Scan# 2273  
 Delta R.T. -0.00 min  
 Lab File: BF099904.D  
 Acq: 28 Oct 2017 4:43

Instrument :  
 BNA\_F  
 ClientSampleId :

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 264   | Resp: | 179025 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.5  | 19.2  | 28.8   |
| 265       | 20.6  | 17.5  | 26.3   |

