

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040418\  
 Data File : BF104230.D  
 Acq On : 4 Apr 2018 17:29  
 Operator : JU/SJ  
 Sample : PB107923BL  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Apr 04 18:10:40 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 04 18:06:58 2018  
 Response via : Initial Calibration

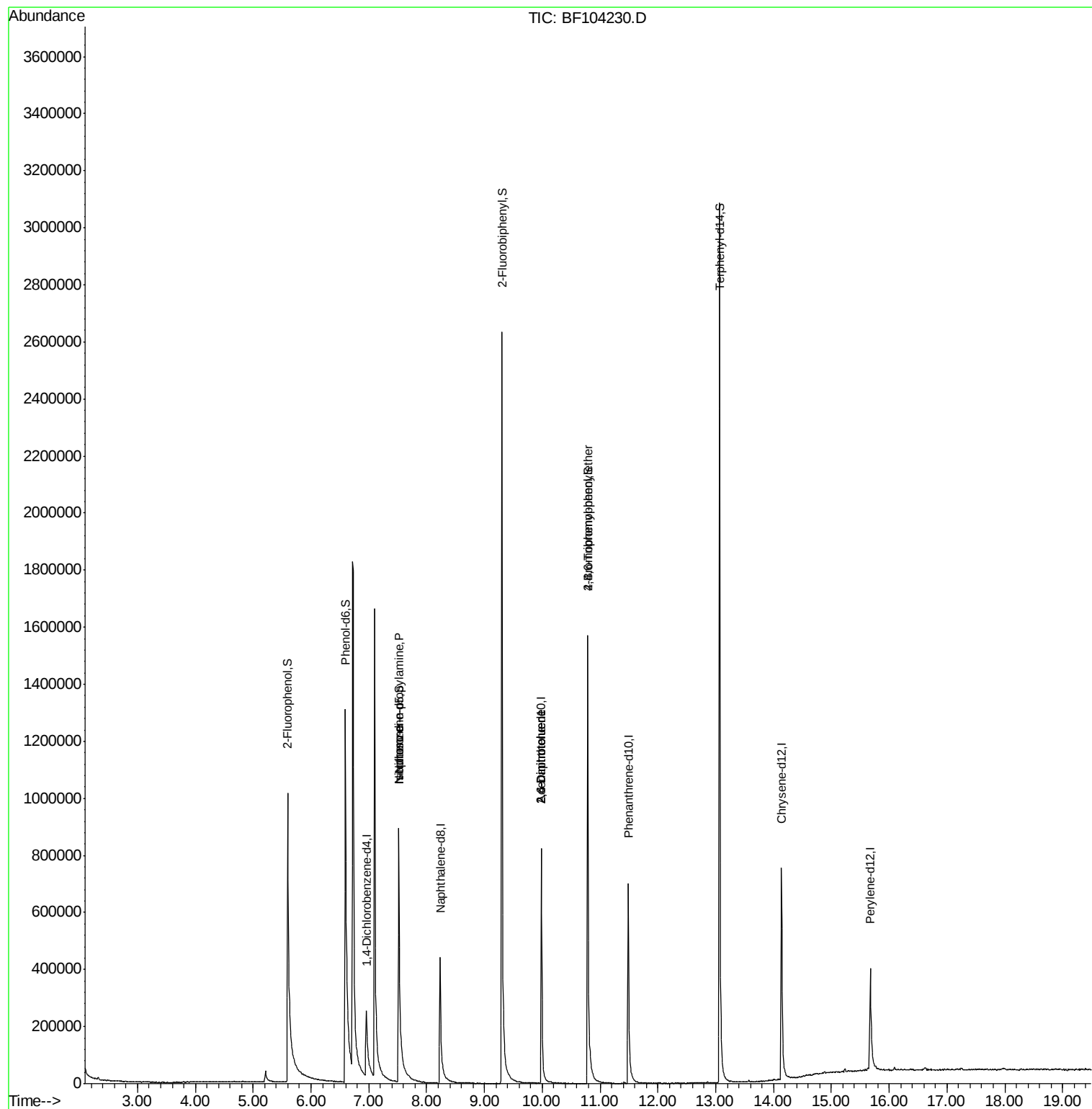
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.96  | 152  | 106847   | 20.00     | ng     | 0.00     |
| 21) Naphthalene-d8             | 8.23  | 136  | 480401   | 20.00     | ng     | 0.00     |
| 38) Acenaphthene-d10           | 9.99  | 164  | 226452   | 20.00     | ng     | 0.00     |
| 63) Phenanthrene-d10           | 11.49 | 188  | 455994   | 20.00     | ng     | 0.00     |
| 75) Chrysene-d12               | 14.14 | 240  | 388154   | 20.00     | ng     | 0.00     |
| 86) Perylene-d12               | 15.67 | 264  | 274790   | 20.00     | ng     | 0.00     |
| System Monitoring Compounds    |       |      |          |           |        |          |
| 5) 2-Fluorophenol              | 5.60  | 112  | 844773   | 126.09    | ng     | 0.00     |
| 7) Phenol-d6                   | 6.59  | 99   | 1126444  | 136.66    | ng     | -0.01    |
| 23) Nitrobenzene-d5            | 7.52  | 82   | 646588   | 82.31     | ng     | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.79 | 330  | 316842   | 125.65    | ng     | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.30  | 172  | 1301385  | 90.62     | ng     | 0.00     |
| 78) Terphenyl-d14              | 13.07 | 244  | 1444022  | 85.90     | ng     | 0.00     |
| Target Compounds               |       |      |          |           |        |          |
| 9) Benzaldehyde                | 6.59  | 77   | 922      | Below Cal | Qvalue | # 1      |
| 19) n-Nitroso-di-n-propylamine | 7.52  | 70   | 76665    | 15.672 ng | #      | 73       |
| 25) Isophorone                 | 7.52  | 82   | 646588   | 44.664 ng | #      | 64       |
| 50) 2,6-Dinitrotoluene         | 9.99  | 165  | 27593    | 7.173 ng  | #      | 25       |
| 56) 2,4-Dinitrotoluene         | 9.99  | 165  | 27764    | 5.657 ng  | #      | 22       |
| 66) 4-Bromophenyl-phenylether  | 10.79 | 248  | 18777    | 3.849 ng  | #      | 1        |

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

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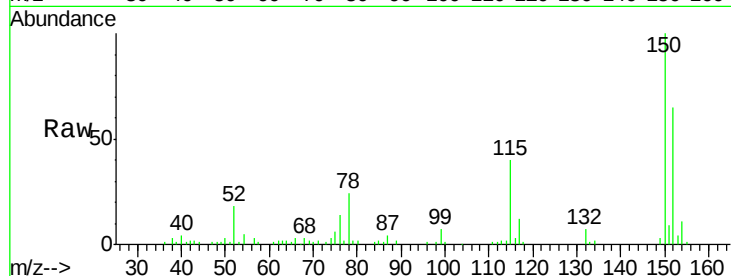


#1

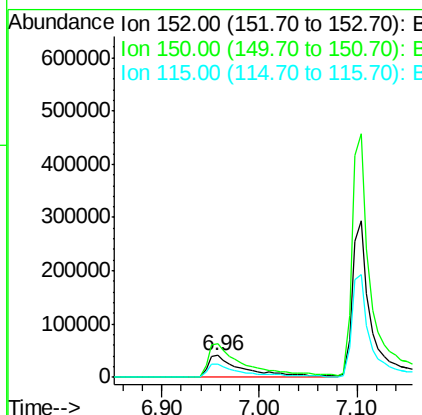
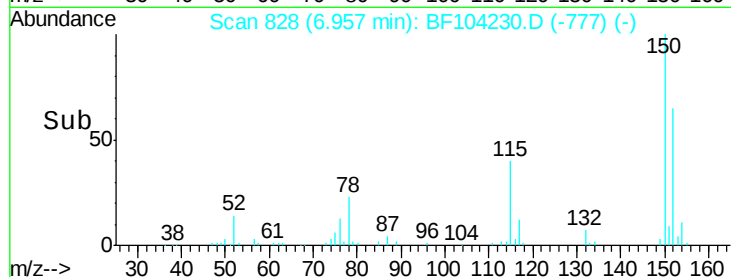
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.96 min Scan# 828  
Delta R.T. -0.00 min  
Lab File: BF104230.D  
Acq: 4 Apr 2018 17:29

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 106847  
Ion Ratio Lower Upper  
152 100  
150 154.0 124.6 186.8  
115 61.7 50.1 75.1



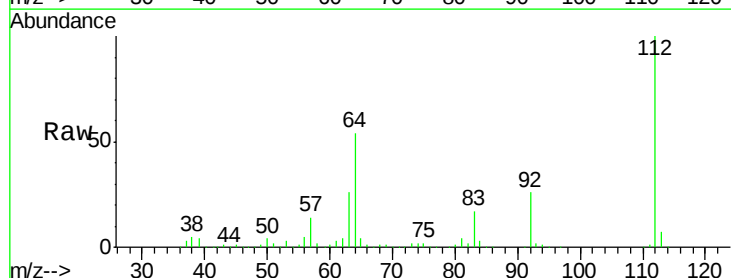
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



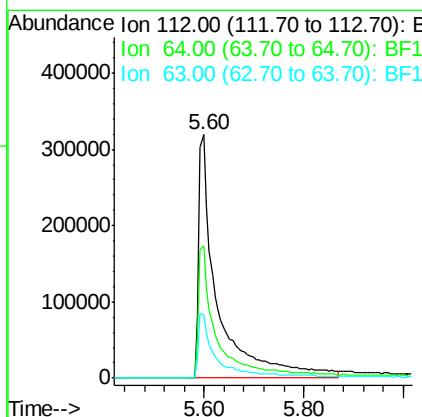
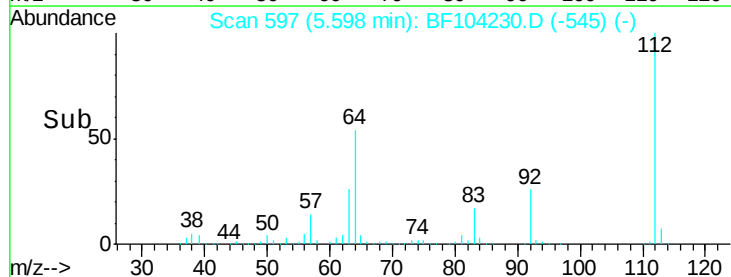
#5

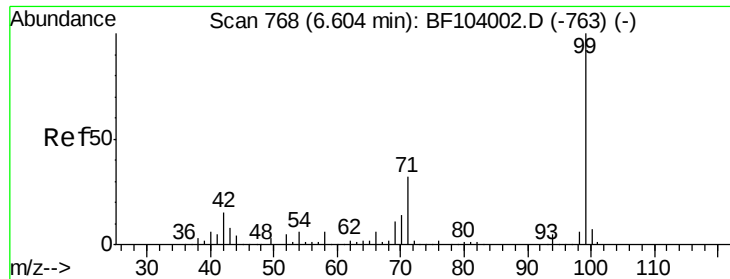
2-Fluorophenol  
Concen: 126.087 ng  
RT: 5.60 min Scan# 597  
Delta R.T. 0.01 min  
Lab File: BF104230.D  
Acq: 4 Apr 2018 17:29

Tgt Ion:112 Resp: 844773  
Ion Ratio Lower Upper  
112 100  
64 54.3 47.9 71.9  
63 26.2 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 136.656 ng

RT: 6.59 min Scan# 766

Delta R.T. -0.01 min

Lab File: BF104230.D

Acq: 4 Apr 2018 17:29

Instrument :

BNA\_F

ClientSampleId :

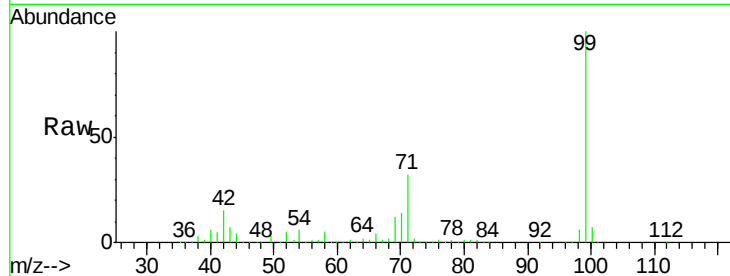
Tot Ion: 99 Resp: 1126444

Ion Ratio Lower Upper

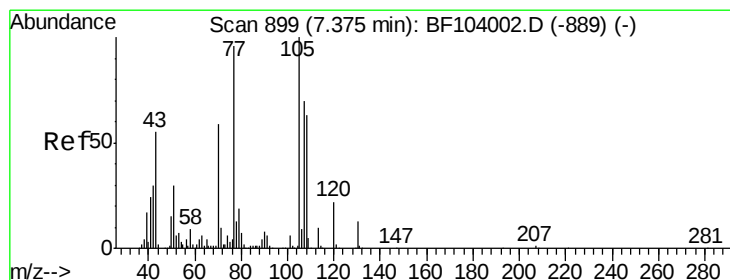
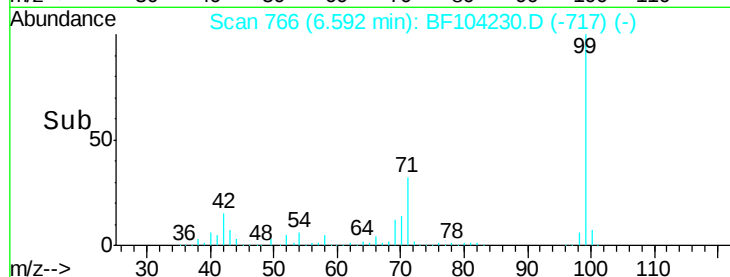
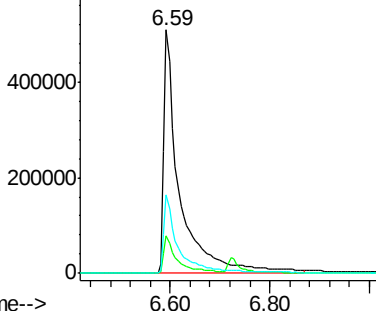
99 100

42 15.2 14.5 21.7

71 32.3 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 15.672 ng

RT: 7.52 min Scan# 923

Delta R.T. 0.16 min

Lab File: BF104230.D

Acq: 4 Apr 2018 17:29

Tgt Ion: 70 Resp: 76665

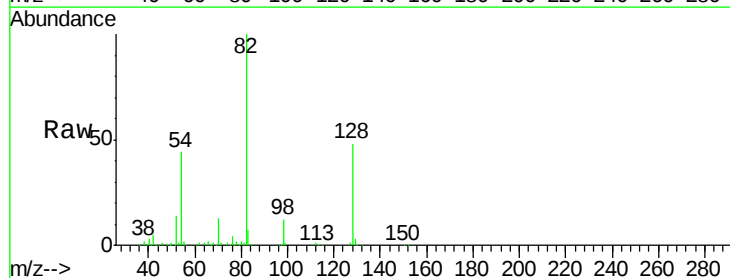
Ion Ratio Lower Upper

70 100

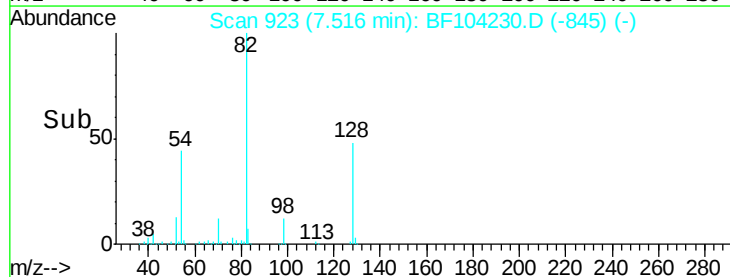
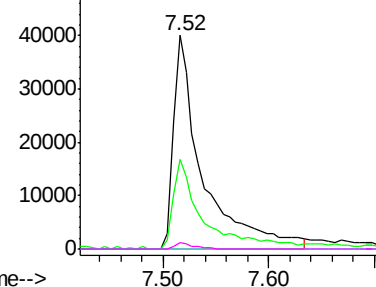
42 42.3 47.5 71.3#

101 0.0 7.4 11.2#

130 2.9 16.6 25.0#



Abundance Ion 70.00 (69.70 to 70.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 101.00 (100.70 to 101.70): BF1  
Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.23 min Scan# 1045

Delta R.T. -0.00 min

Lab File: BF104230.D

Acq: 4 Apr 2018 17:29

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 480401

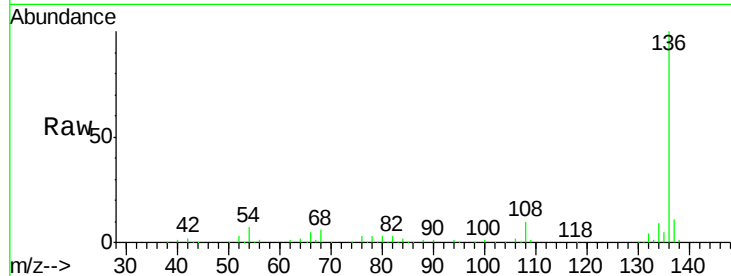
Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 6.5 6.6 9.8#

68 6.2 5.0 7.4

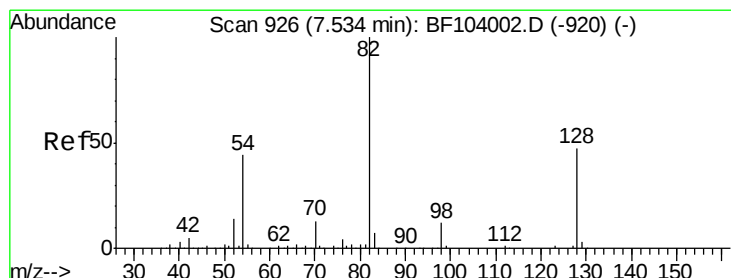
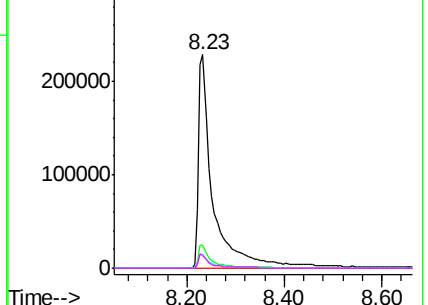
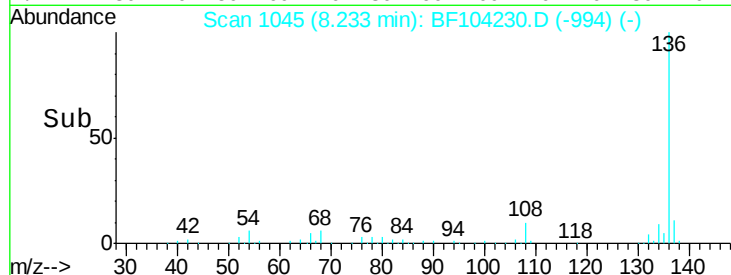


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 82.311 ng

RT: 7.52 min Scan# 923

Delta R.T. -0.01 min

Lab File: BF104230.D

Acq: 4 Apr 2018 17:29

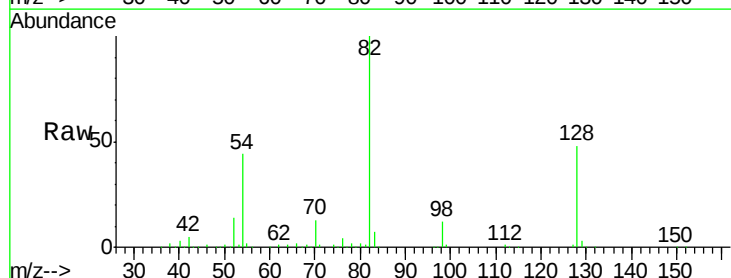
Tgt Ion: 82 Resp: 646588

Ion Ratio Lower Upper

82 100

128 47.8 36.1 54.1

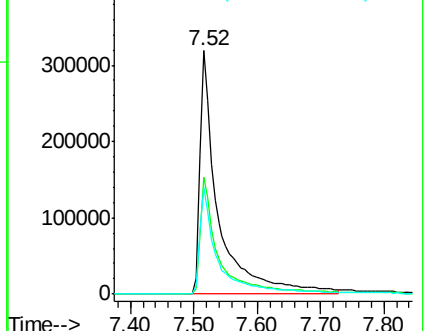
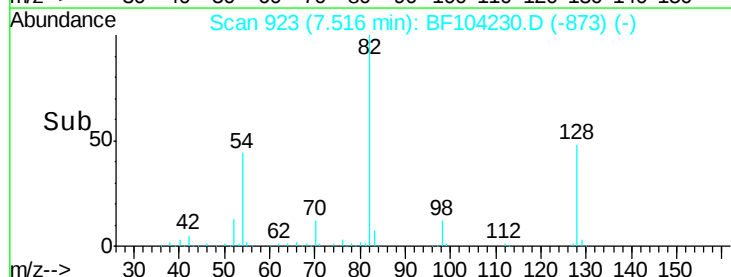
54 44.0 41.4 62.2

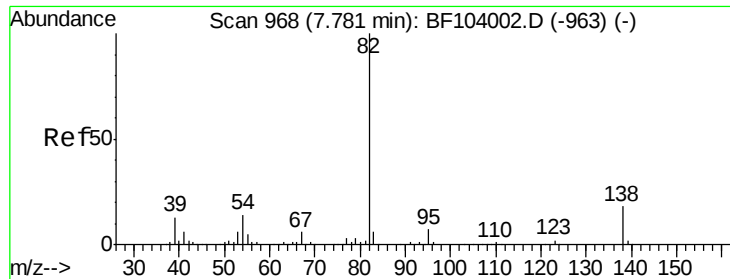


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 44.664 ng

RT: 7.52 min Scan# 923

Delta R.T. -0.25 min

Lab File: BF104230.D

Acq: 4 Apr 2018 17:29

Instrument :

BNA\_F

ClientSampleId :

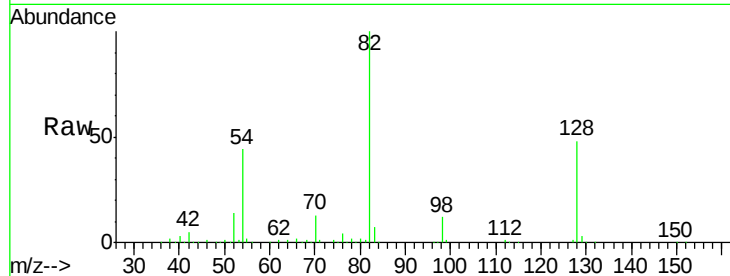
Tot Ion: 82 Resp: 646588

Ion Ratio Lower Upper

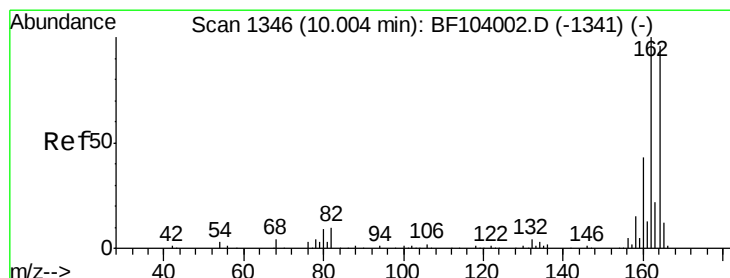
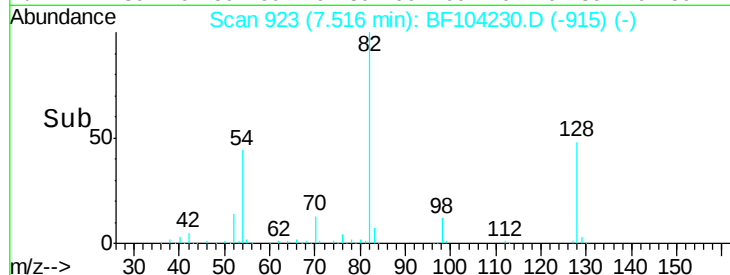
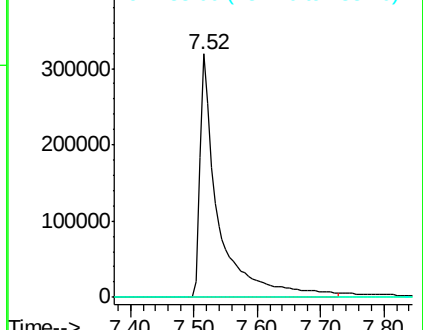
82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1  
Ion 138.00 (137.70 to 138.70): BF1



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.99 min Scan# 1343

Delta R.T. -0.01 min

Lab File: BF104230.D

Acq: 4 Apr 2018 17:29

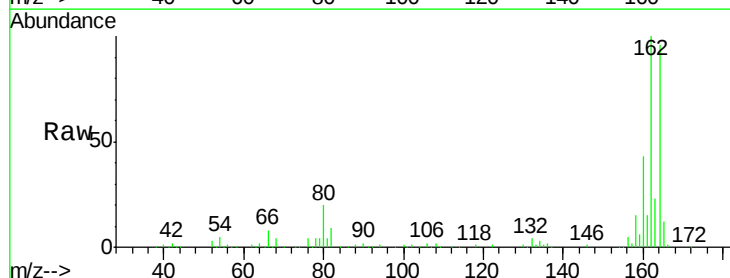
Tgt Ion:164 Resp: 226452

Ion Ratio Lower Upper

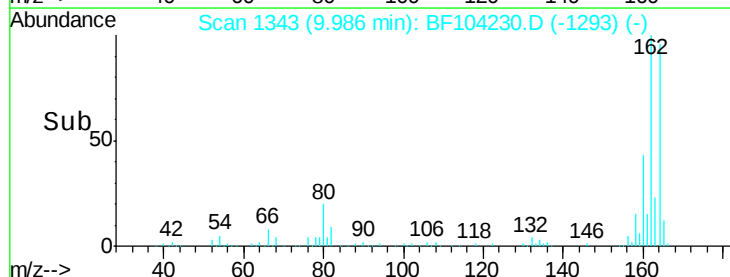
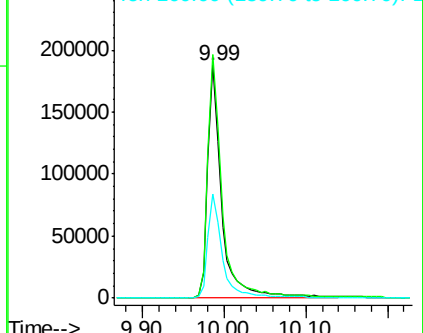
164 100

162 104.4 86.1 129.1

160 44.9 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

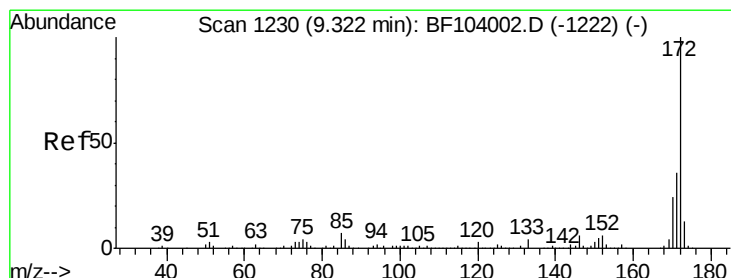
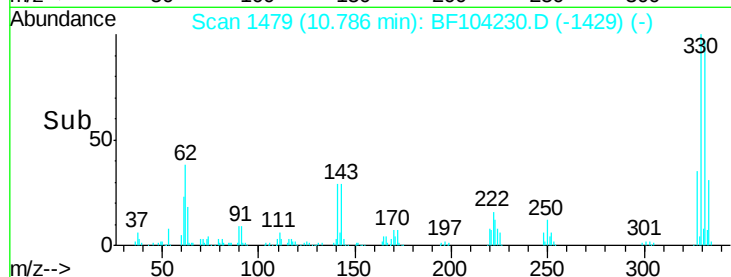
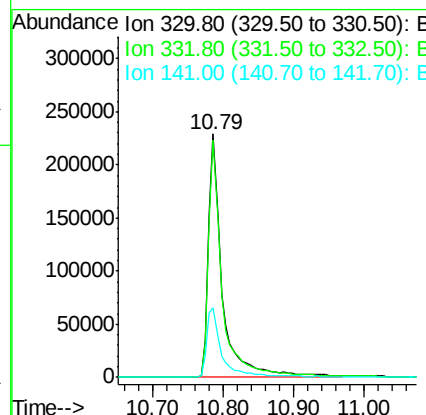
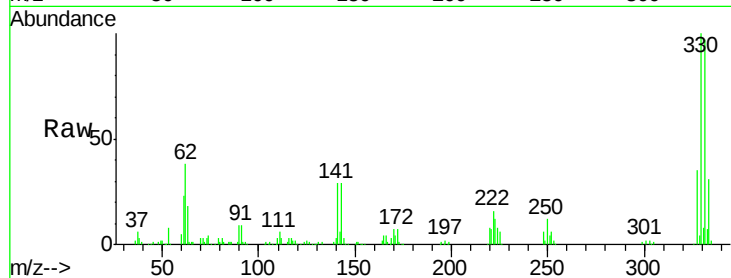




#41  
 2,4,6-Tribromophenol  
 Concen: 125.654 ng  
 RT: 10.79 min Scan# 1479  
 Delta R.T. -0.01 min  
 Lab File: BF104230.D  
 Acq: 4 Apr 2018 17:29

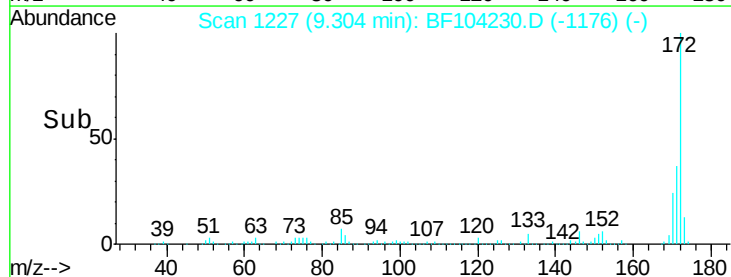
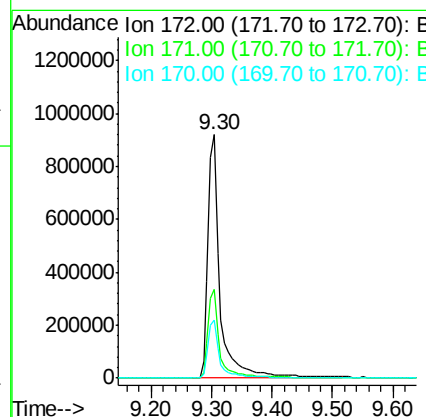
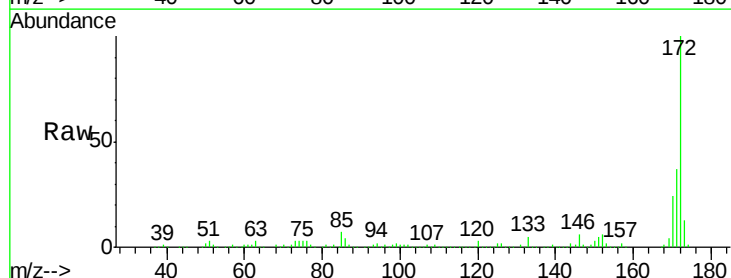
Instrument :  
 BNA\_F  
 ClientSampleId :

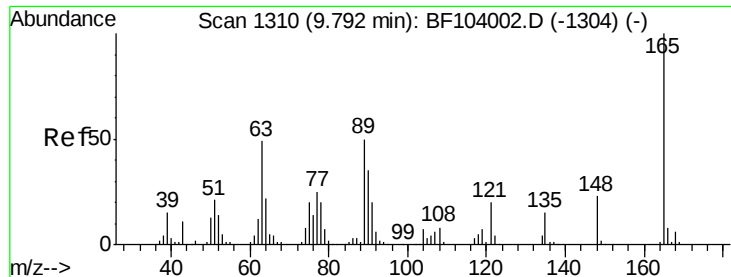
Tot Ion:330 Resp: 316842  
 Ion Ratio Lower Upper  
 330 100  
 332 97.1 77.0 115.6  
 141 31.0 29.9 44.9



#44  
 2-Fluorobiphenyl  
 Concen: 90.623 ng  
 RT: 9.30 min Scan# 1227  
 Delta R.T. -0.00 min  
 Lab File: BF104230.D  
 Acq: 4 Apr 2018 17:29

Tgt Ion:172 Resp: 1301385  
 Ion Ratio Lower Upper  
 172 100  
 171 36.6 29.7 44.5  
 170 24.0 19.6 29.4

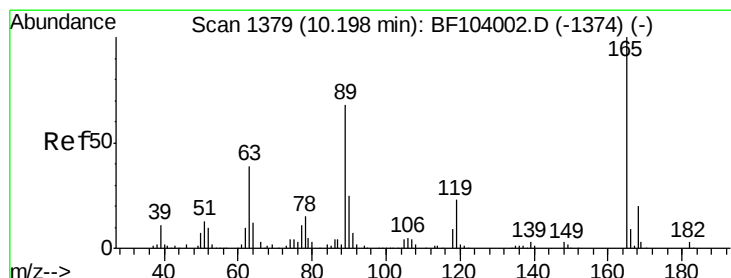
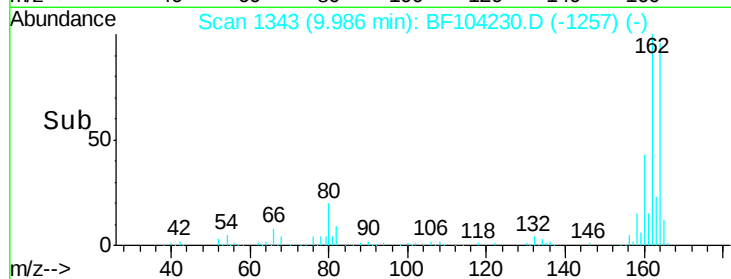
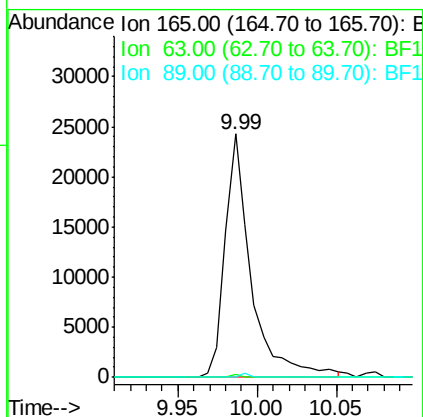
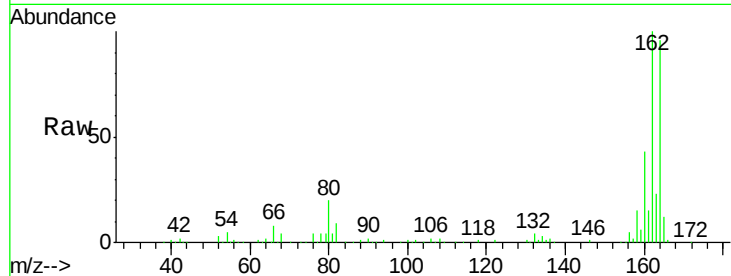




#50  
2,6-Dinitrotoluene  
Concen: 7.173 ng  
RT: 9.99 min Scan# 1343  
Delta R.T. 0.21 min  
Lab File: BF104230.D  
Acq: 4 Apr 2018 17:29

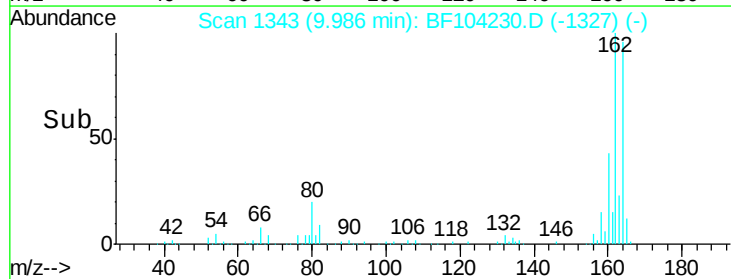
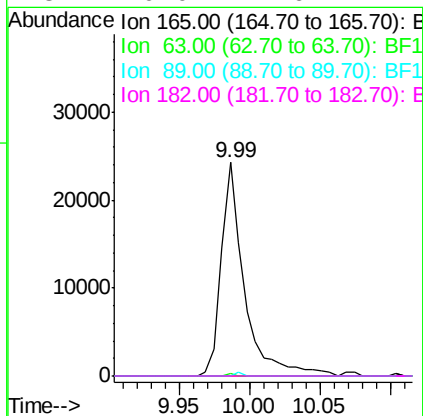
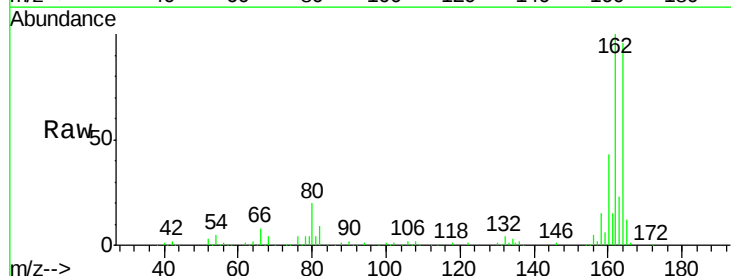
Instrument :  
BNA\_F  
ClientSampleId :

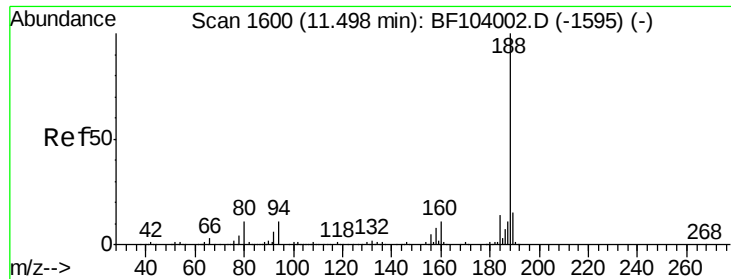
Tot Ion:165 Resp: 27593  
Ion Ratio Lower Upper  
165 100  
63 1.3 44.7 67.1#  
89 0.0 44.0 66.0#



#56  
2,4-Dinitrotoluene  
Concen: 5.657 ng  
RT: 9.99 min Scan# 1343  
Delta R.T. -0.21 min  
Lab File: BF104230.D  
Acq: 4 Apr 2018 17:29

Tgt Ion:165 Resp: 27764  
Ion Ratio Lower Upper  
165 100  
63 1.3 36.4 54.6#  
89 0.0 57.8 86.6#  
182 0.0 1.6 2.4#

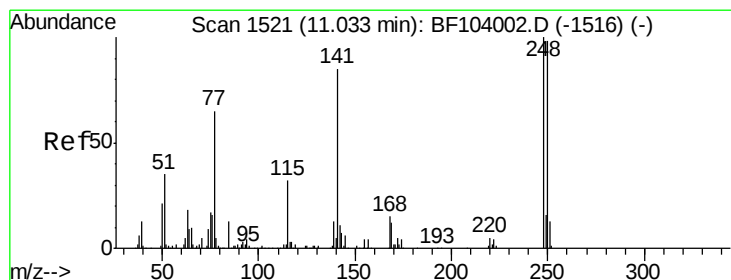
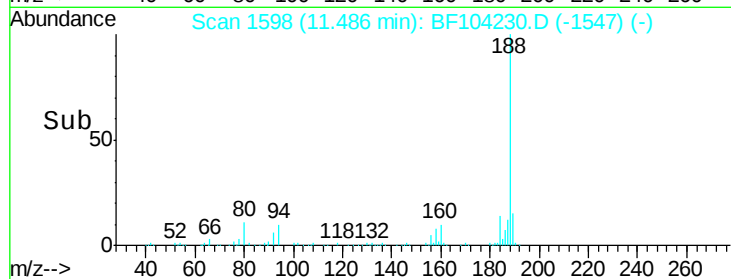
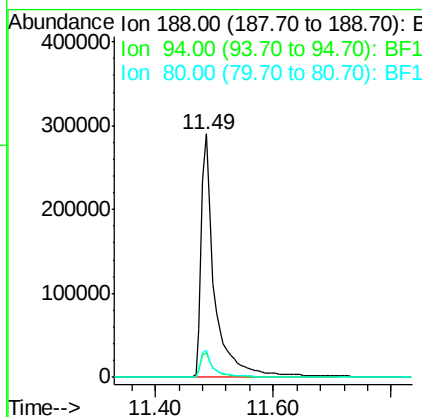
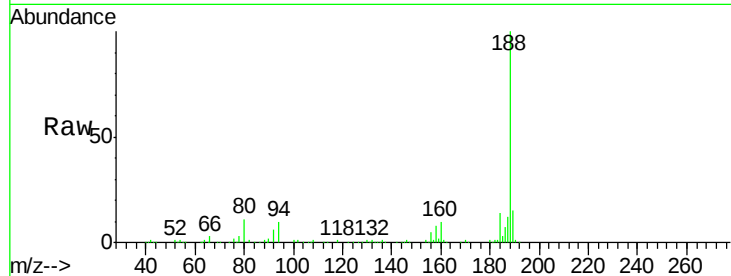




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.49 min Scan# 1598  
Delta R.T. -0.00 min  
Lab File: BF104230.D  
Acq: 4 Apr 2018 17:29

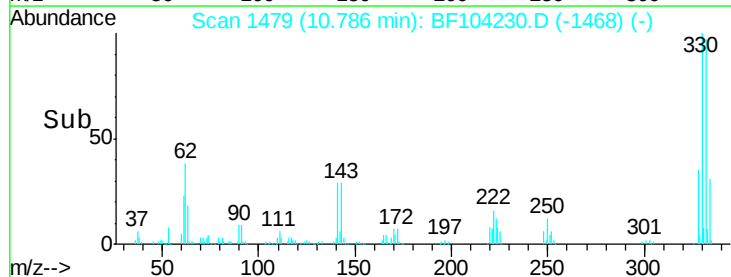
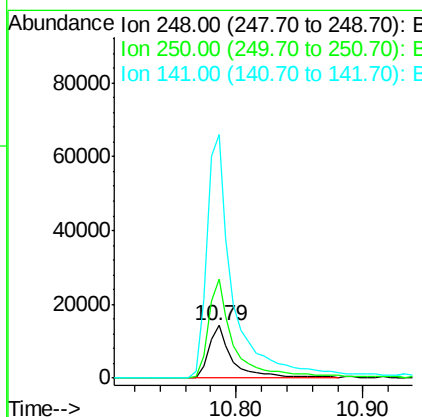
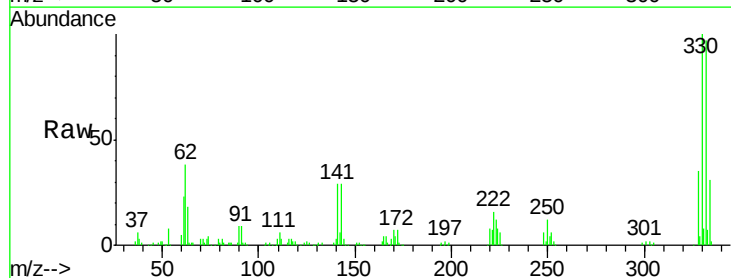
Instrument :  
BNA\_F  
ClientSampleId :

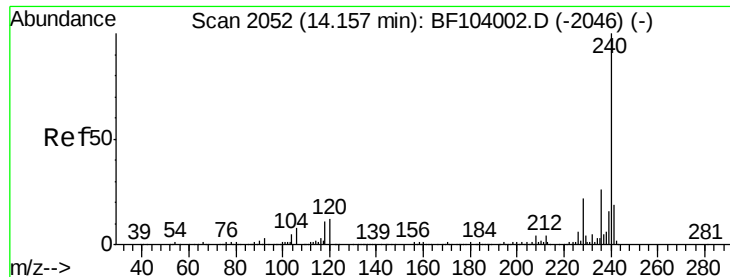
Tot Ion:188 Resp: 455994  
Ion Ratio Lower Upper  
188 100  
94 10.3 8.5 12.7  
80 11.2 9.2 13.8



#66  
4-Bromophenyl-phenylether  
Concen: 3.849 ng  
RT: 10.79 min Scan# 1479  
Delta R.T. -0.24 min  
Lab File: BF104230.D  
Acq: 4 Apr 2018 17:29

Tgt Ion:248 Resp: 18777  
Ion Ratio Lower Upper  
248 100  
250 189.5 76.9 115.3#  
141 465.1 74.4 111.6#





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.14 min Scan# 2049

Delta R.T. -0.01 min

Lab File: BF104230.D

Acq: 4 Apr 2018 17:29

Instrument :

BNA\_F

ClientSampleId :

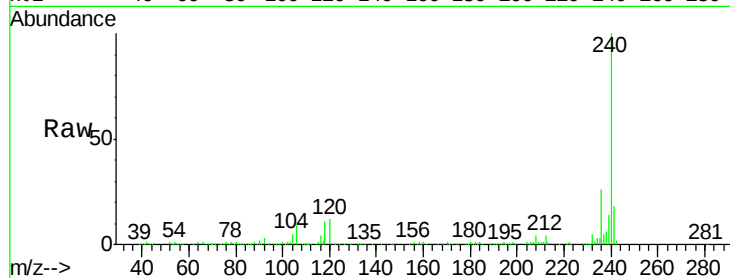
Tot Ion:240 Resp: 388154

Ion Ratio Lower Upper

240 100

120 12.2 9.5 14.3

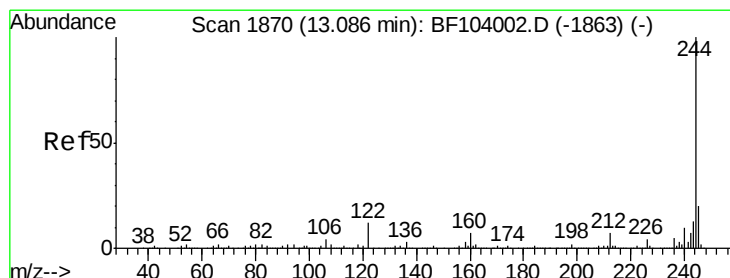
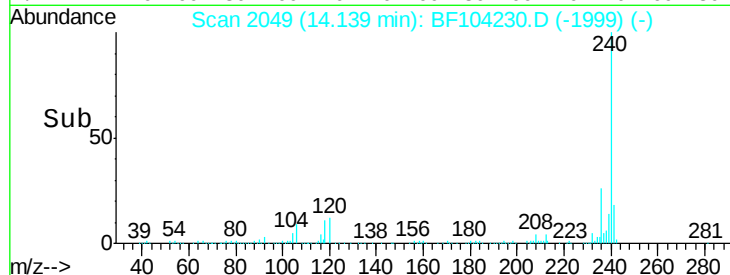
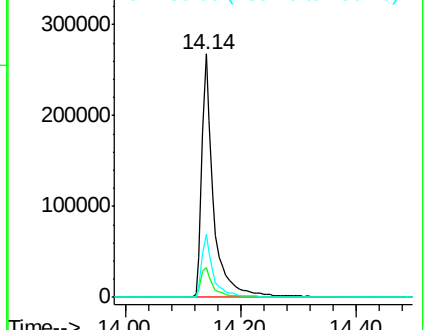
236 26.0 20.7 31.1



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: 85.898 ng

RT: 13.07 min Scan# 1867

Delta R.T. -0.00 min

Lab File: BF104230.D

Acq: 4 Apr 2018 17:29

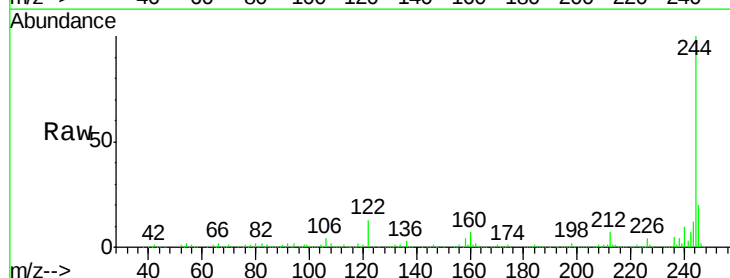
Tgt Ion:244 Resp: 1444022

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

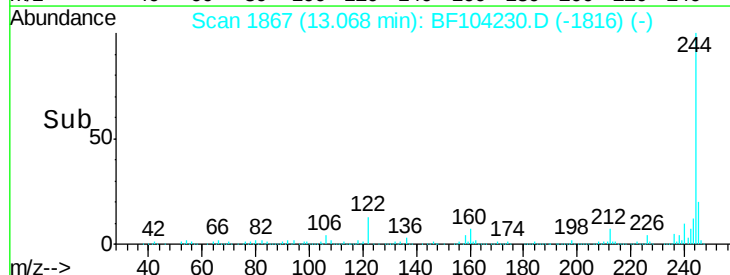
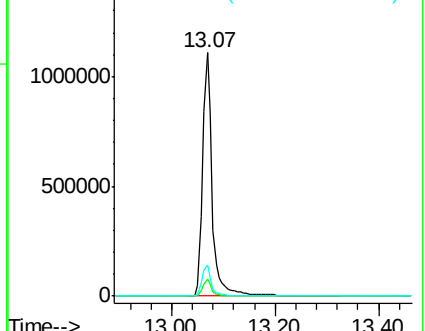
122 12.6 11.0 16.4

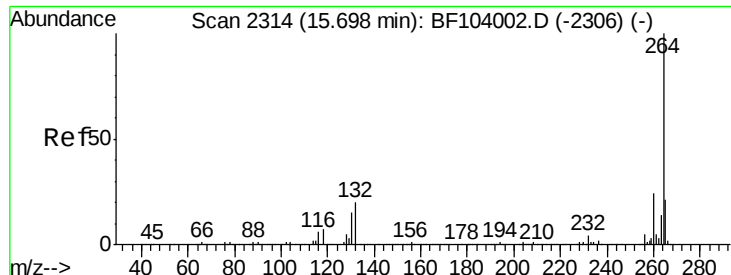


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

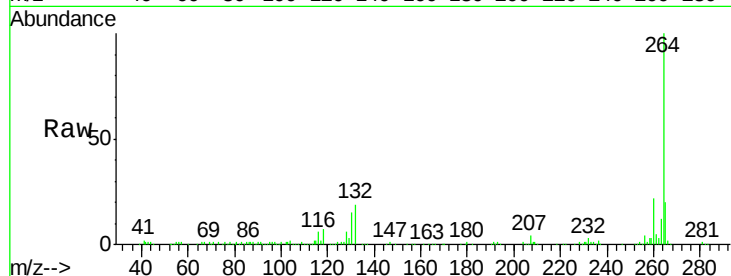




#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.67 min Scan# 2310  
 Delta R.T. -0.01 min  
 Lab File: BF104230.D  
 Acq: 4 Apr 2018 17:29

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.5  | 19.2  | 28.8  |
| 265     | 20.3  | 17.5  | 26.3  |



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

