

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040418\  
 Data File : BF104263.D  
 Acq On : 5 Apr 2018 8:56  
 Operator : JU/SJ  
 Sample : J2179-05  
 Misc :  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Apr 05 10:49:10 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

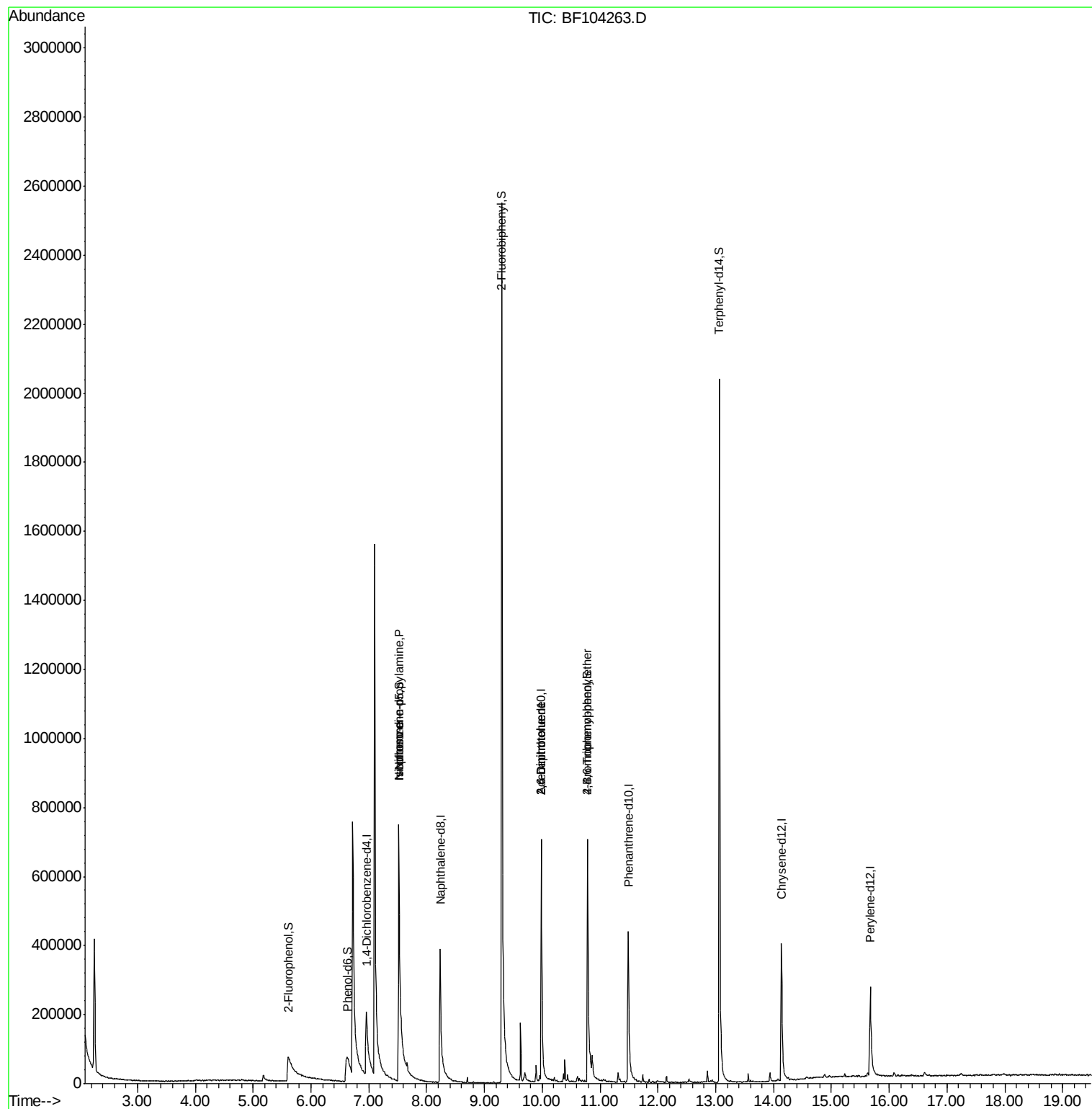
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.96  | 152  | 105748   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.23  | 136  | 461359   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.99  | 164  | 209604   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.49 | 188  | 326944   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 14.14 | 240  | 229590   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.67 | 264  | 204637   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.60  | 112  | 157450   | 23.74  | ng    | 0.01     |
| 7) Phenol-d6                   | 6.62  | 99   | 155876   | 19.11  | ng    | 0.02     |
| 23) Nitrobenzene-d5            | 7.52  | 82   | 678375   | 89.92  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.78 | 330  | 164530   | 70.49  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.30  | 172  | 1318396  | 99.19  | ng    | 0.00     |
| 78) Terphenyl-d14              | 13.06 | 244  | 927915   | 93.32  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.52  | 70   | 75615    | 15.618 | ng    | # 74     |
| 25) Isophorone                 | 7.52  | 82   | 697446   | 50.165 | ng    | # 64     |
| 50) 2,6-Dinitrotoluene         | 9.99  | 165  | 24702    | 6.938  | ng    | # 24     |
| 56) 2,4-Dinitrotoluene         | 9.99  | 165  | 25730    | 5.663  | ng    | # 21     |
| 66) 4-Bromophenyl-phenylether  | 10.79 | 248  | 9973     | 2.851  | ng    | # 1      |

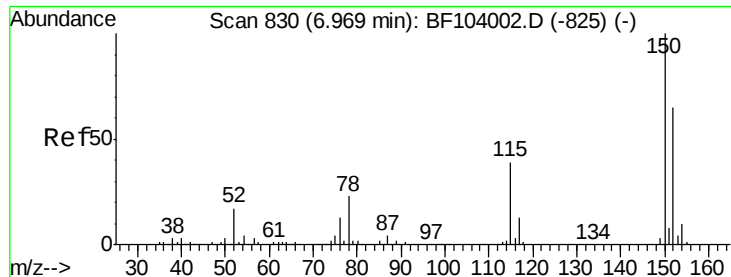
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_F  
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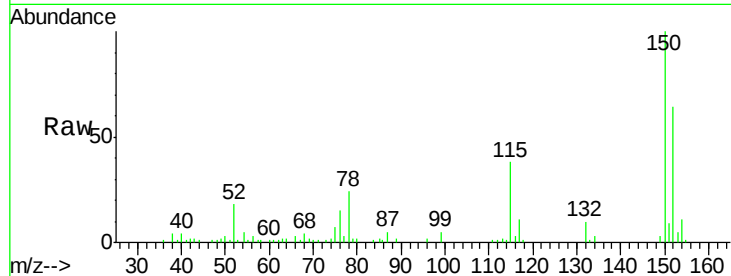


#1

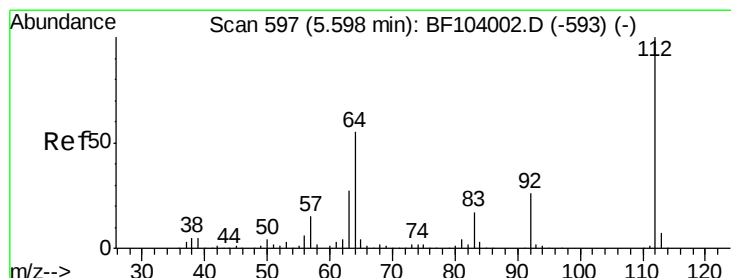
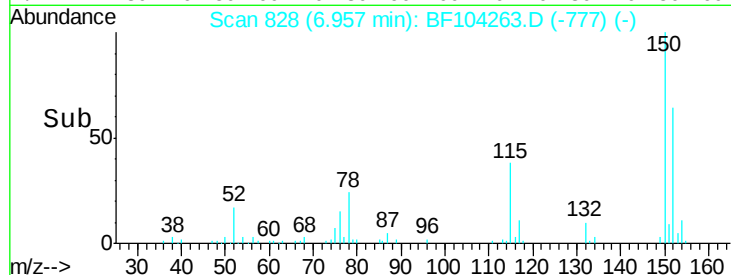
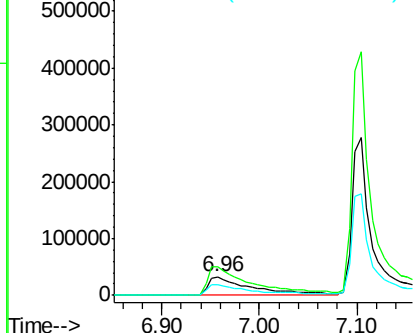
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.96 min Scan# 828  
Delta R.T. -0.00 min  
Lab File: BF104263.D  
Acq: 5 Apr 2018 8:56

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:152 Resp: 105748  
Ion Ratio Lower Upper  
152 100  
150 157.3 124.6 186.8  
115 59.2 50.1 75.1



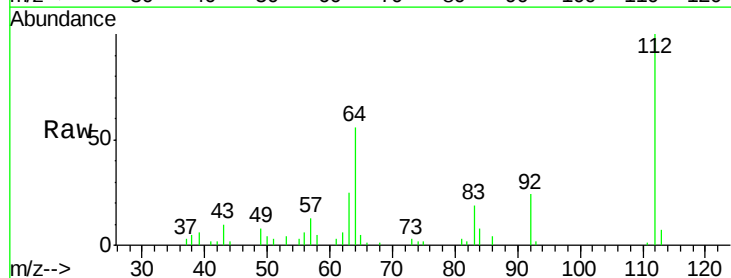
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



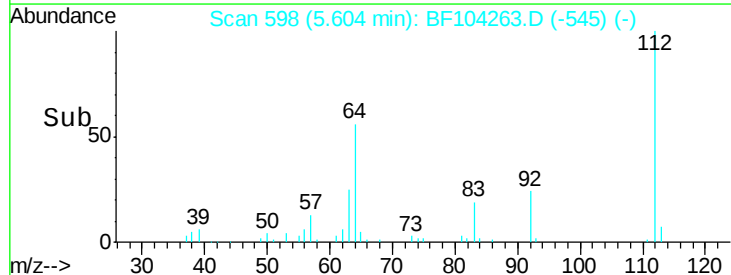
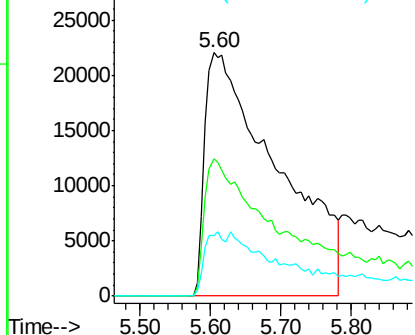
#5

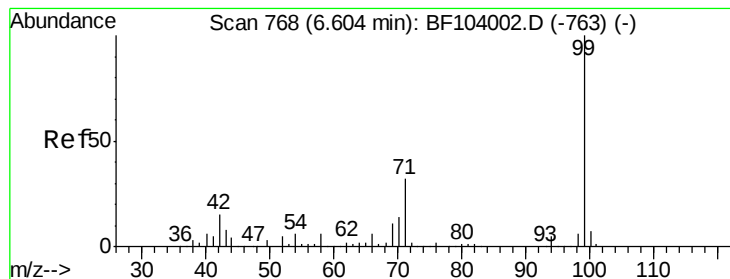
2-Fluorophenol  
Concen: 23.744 ng  
RT: 5.60 min Scan# 598  
Delta R.T. 0.01 min  
Lab File: BF104263.D  
Acq: 5 Apr 2018 8:56

Tgt Ion:112 Resp: 157450  
Ion Ratio Lower Upper  
112 100  
64 56.2 47.9 71.9  
63 25.0 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: 19.107 ng

RT: 6.62 min Scan# 771

Delta R.T. 0.02 min

Lab File: BF104263.D

Acq: 5 Apr 2018 8:56

Instrument :

BNA\_F

ClientSampleId :

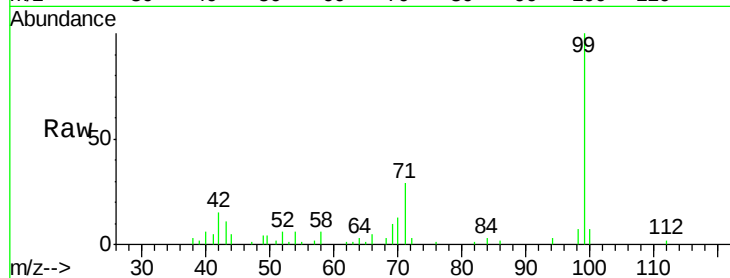
Tot Ion: 99 Resp: 155876

Ion Ratio Lower Upper

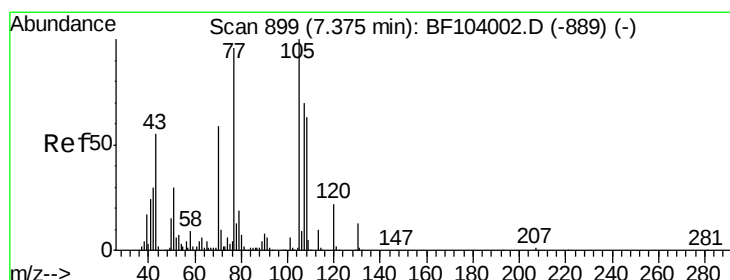
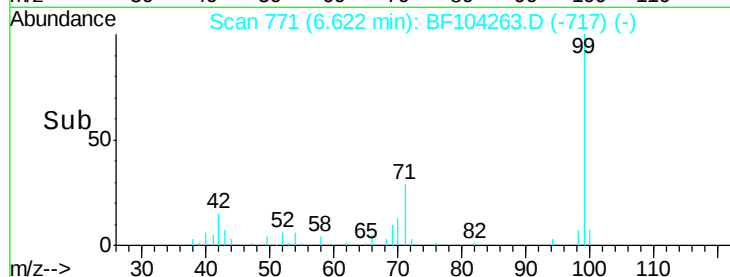
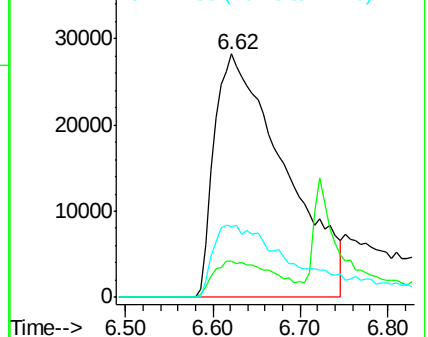
99 100

42 14.9 14.5 21.7

71 29.0 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: 15.618 ng

RT: 7.52 min Scan# 923

Delta R.T. 0.16 min

Lab File: BF104263.D

Acq: 5 Apr 2018 8:56

Tgt Ion: 70 Resp: 75615

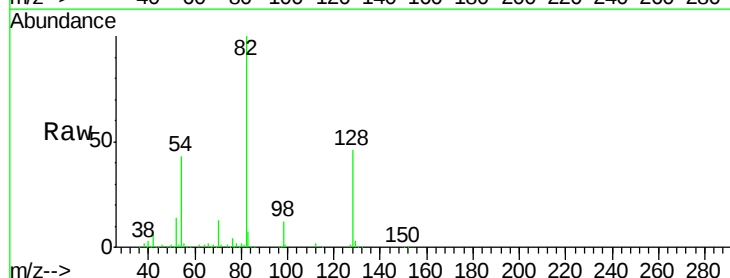
Ion Ratio Lower Upper

70 100

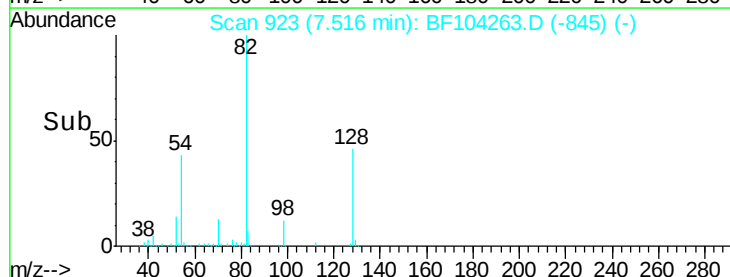
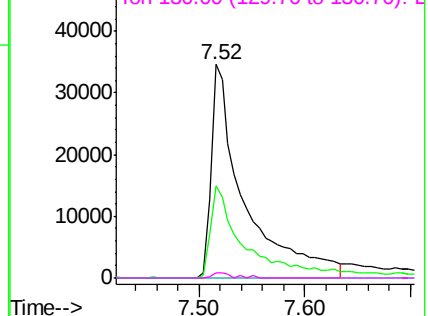
42 43.3 47.5 71.3#

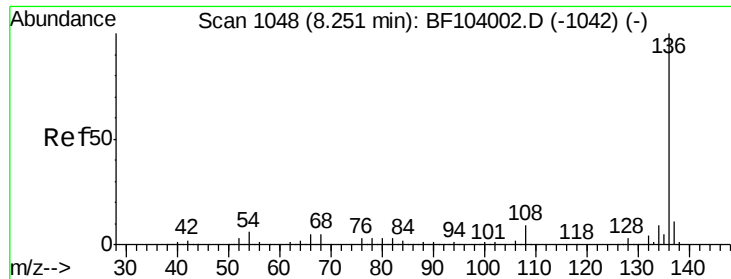
101 0.0 7.4 11.2#

130 2.2 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

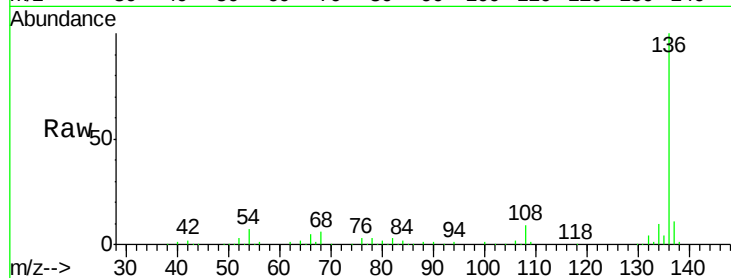




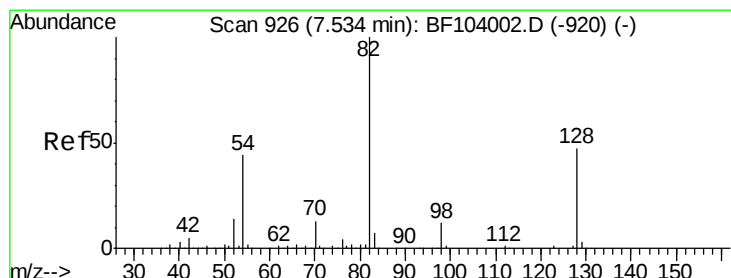
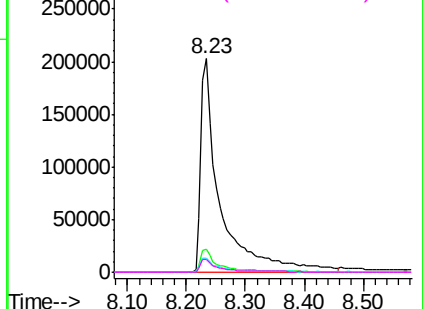
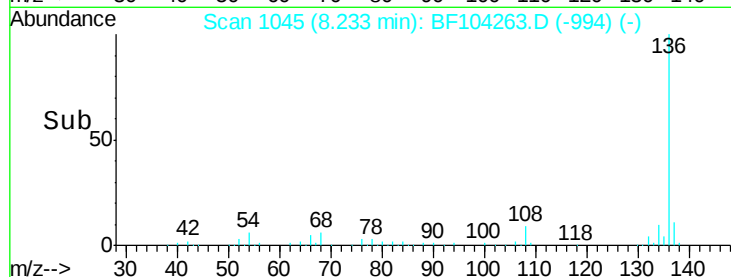
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.23 min Scan# 1045  
Delta R.T. -0.00 min  
Lab File: BF104263.D  
Acq: 5 Apr 2018 8:56

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 461359   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 10.6  | 8.9 13.3 |
| 54          | 6.6   | 6.6 9.8  |
| 68          | 6.0   | 5.0 7.4  |

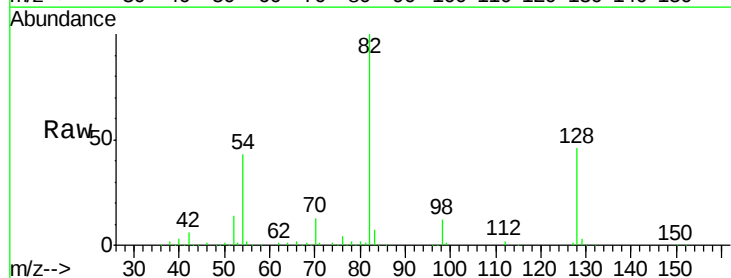


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

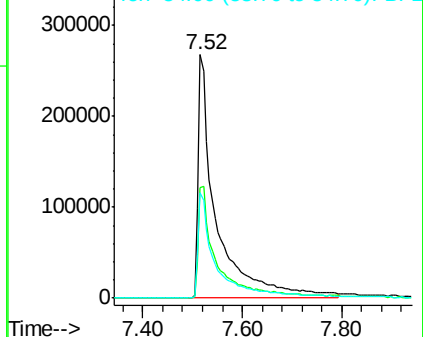
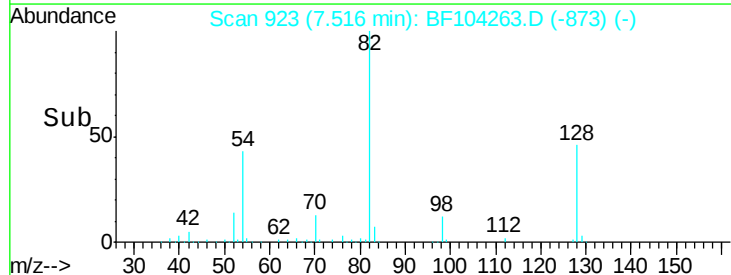


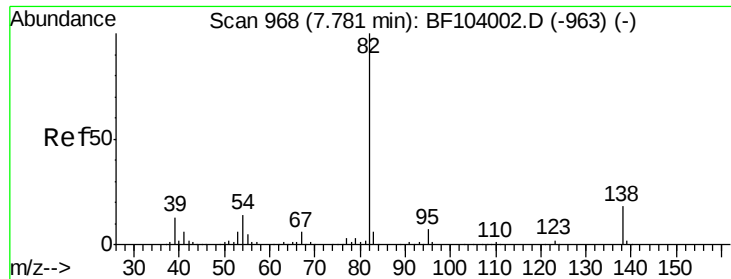
#23  
Nitrobenzene-d5  
Concen: 89.922 ng  
RT: 7.52 min Scan# 923  
Delta R.T. -0.01 min  
Lab File: BF104263.D  
Acq: 5 Apr 2018 8:56

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 678375    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 45.6  | 36.1 54.1 |
| 54          | 43.5  | 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: 50.165 ng

RT: 7.52 min Scan# 923

Delta R.T. -0.25 min

Lab File: BF104263.D

Acq: 5 Apr 2018 8:56

Instrument :

BNA\_F

ClientSampleId :

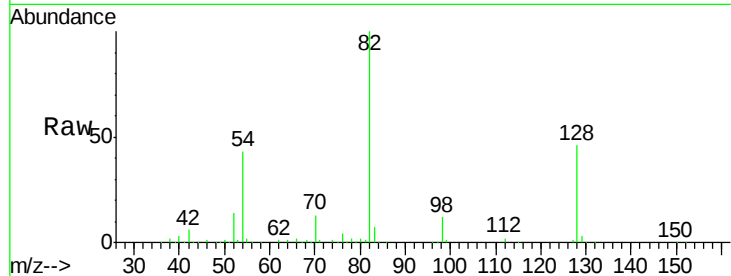
Tot Ion: 82 Resp: 697446

Ion Ratio Lower Upper

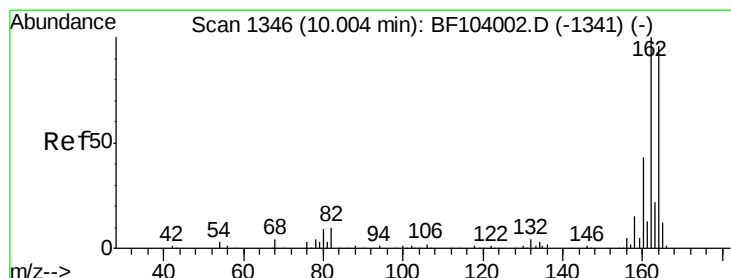
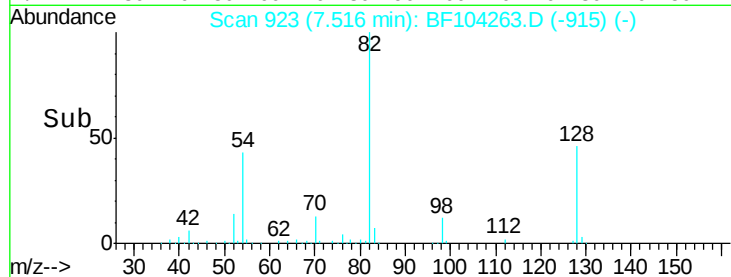
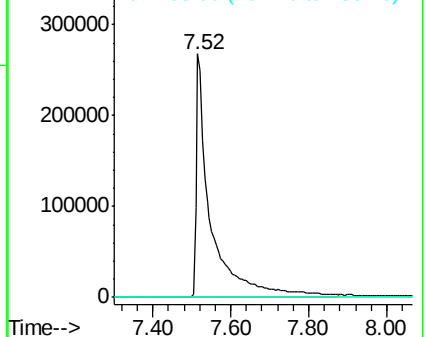
82 100

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: BF104263.D

Acq: 5 Apr 2018 8:56

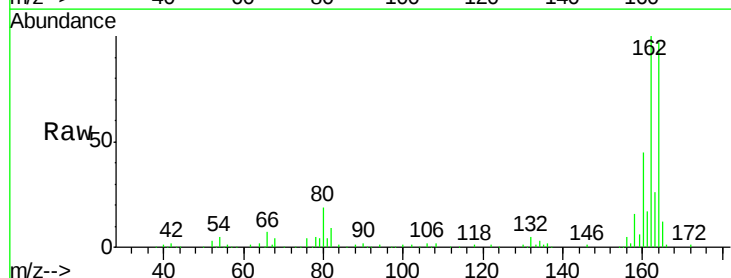
Tgt Ion:164 Resp: 209604

Ion Ratio Lower Upper

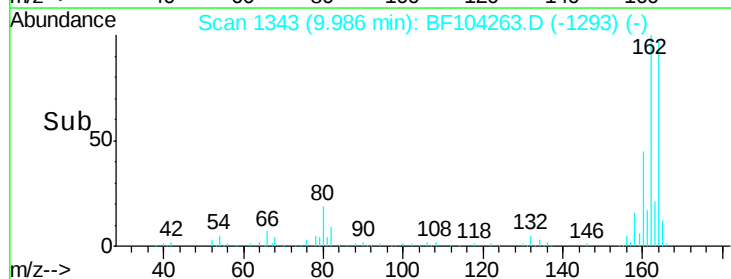
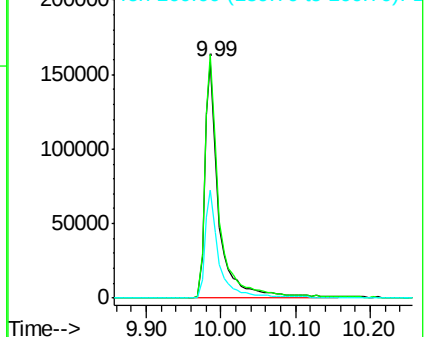
164 100

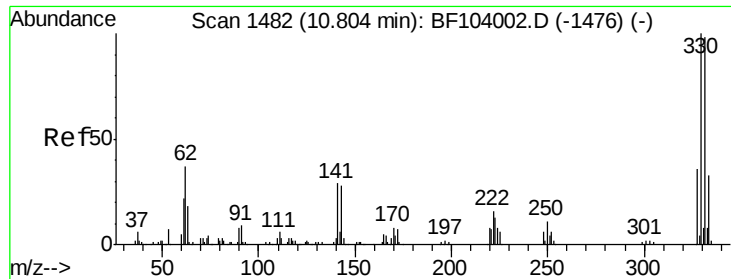
162 102.9 86.1 129.1

160 45.9 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

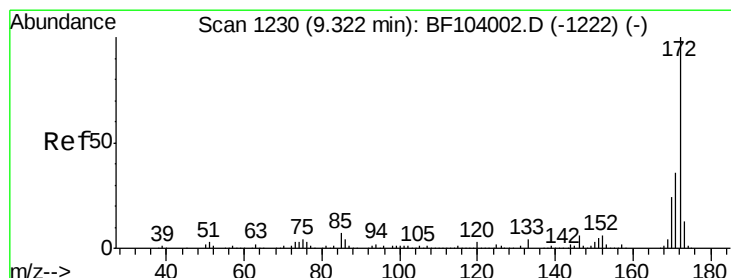
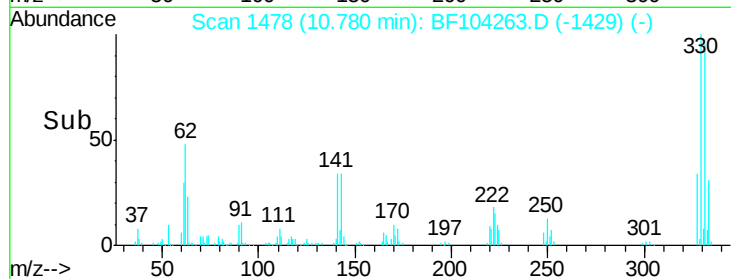
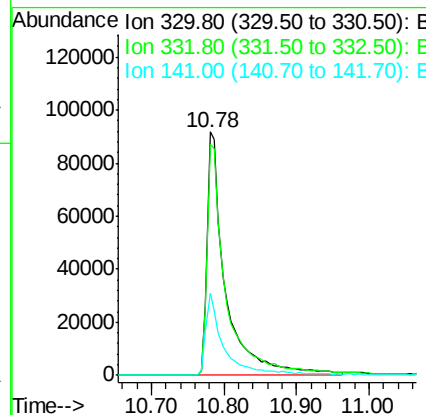
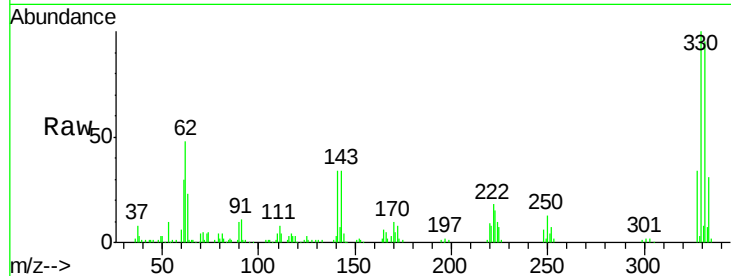




#41  
 2,4,6-Tribromophenol  
 Concen: 70.494 ng  
 RT: 10.78 min Scan# 1478  
 Delta R.T. -0.01 min  
 Lab File: BF104263.D  
 Acq: 5 Apr 2018 8:56

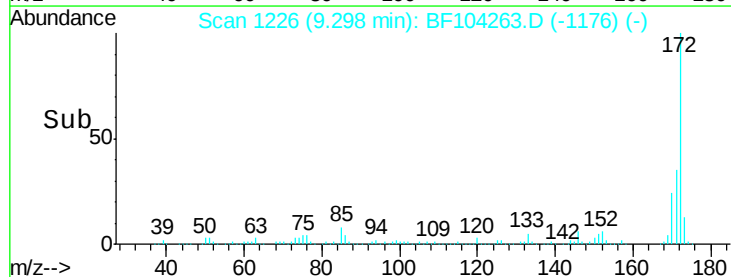
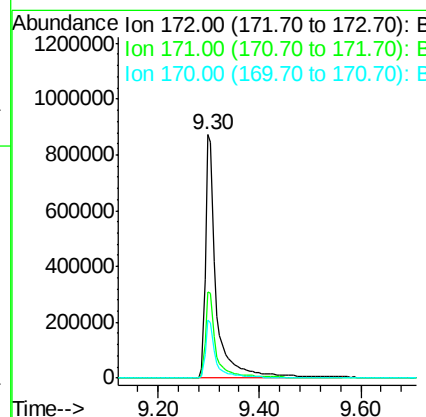
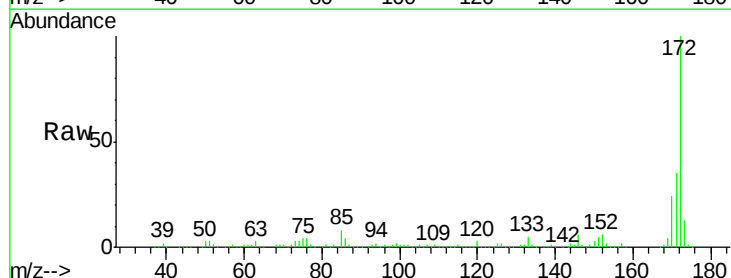
Instrument :  
 BNA\_F  
 ClientSampleId :

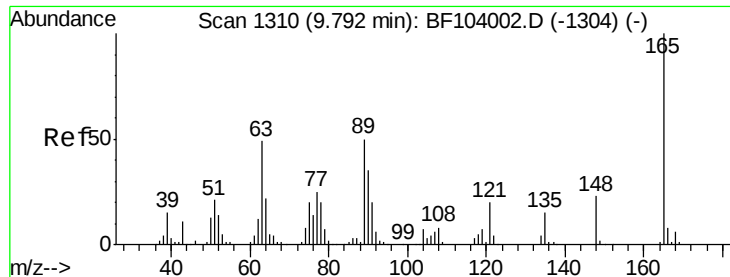
Tot Ion:330 Resp: 164530  
 Ion Ratio Lower Upper  
 330 100  
 332 97.1 77.0 115.6  
 141 31.7 29.9 44.9



#44  
 2-Fluorobiphenyl  
 Concen: 99.187 ng  
 RT: 9.30 min Scan# 1226  
 Delta R.T. -0.01 min  
 Lab File: BF104263.D  
 Acq: 5 Apr 2018 8:56

Tgt Ion:172 Resp: 1318396  
 Ion Ratio Lower Upper  
 172 100  
 171 35.3 29.7 44.5  
 170 24.0 19.6 29.4

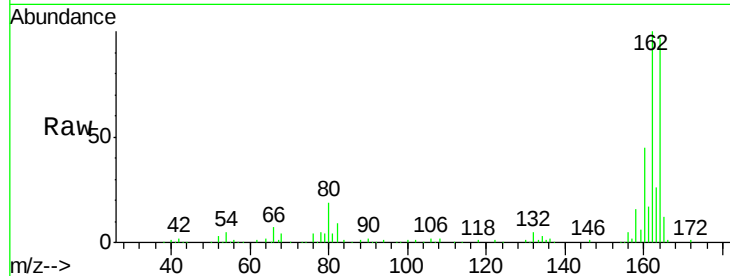




#50  
 2,6-Dinitrotoluene  
 Concen: 6.938 ng  
 RT: 9.99 min Scan# 1343  
 Delta R.T. 0.21 min  
 Lab File: BF104263.D  
 Acq: 5 Apr 2018 8:56

Instrument :  
 BNA\_F  
 ClientSampleId :

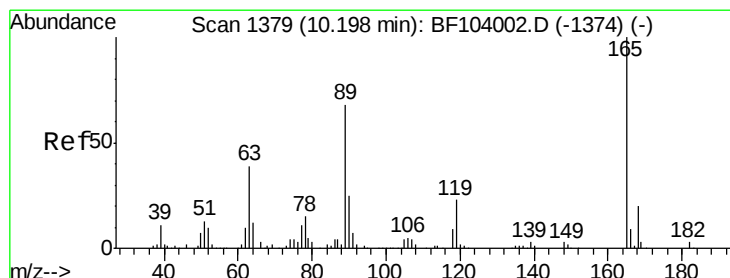
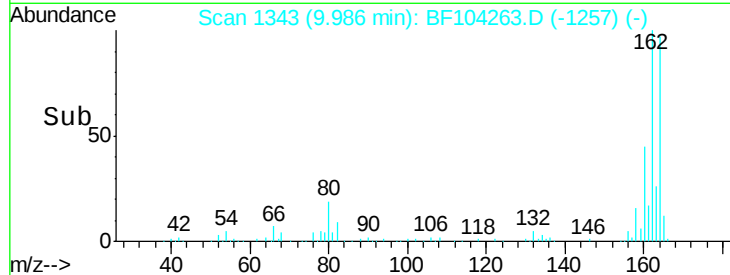
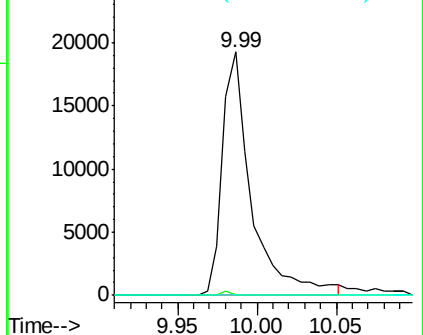
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 44.7  | 67.1# |
| 89      | 0.0   | 44.0  | 66.0# |



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1



#56  
 2,4-Dinitrotoluene  
 Concen: 5.663 ng  
 RT: 9.99 min Scan# 1343  
 Delta R.T. -0.21 min  
 Lab File: BF104263.D  
 Acq: 5 Apr 2018 8:56

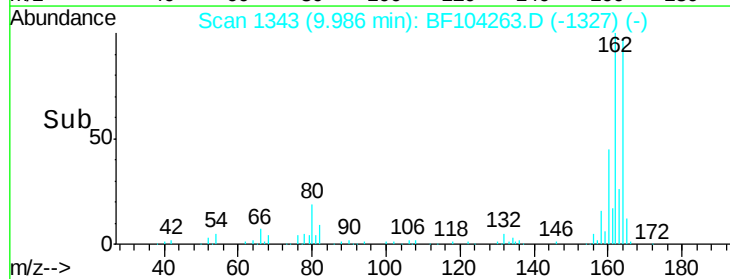
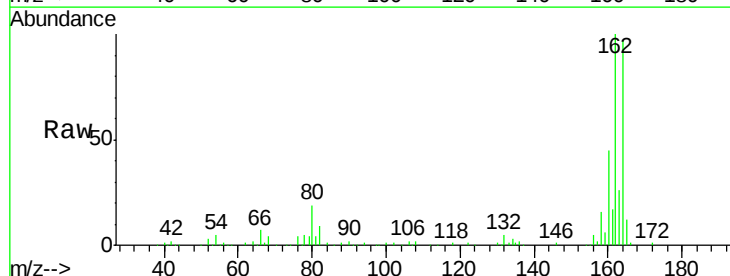
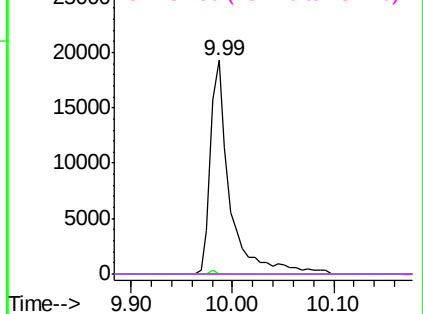
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 36.4  | 54.6# |
| 89      | 0.0   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |

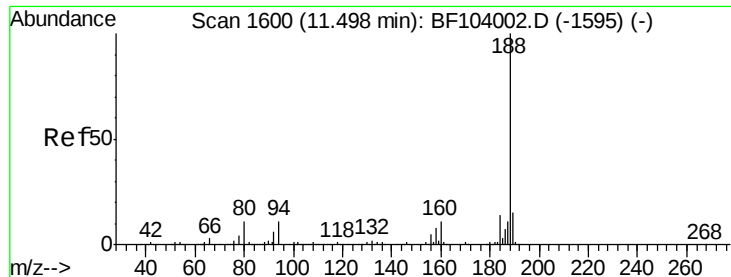
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

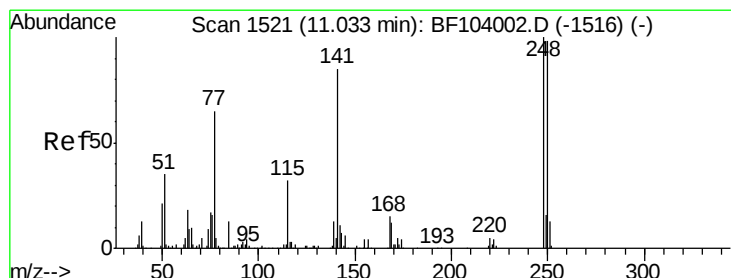
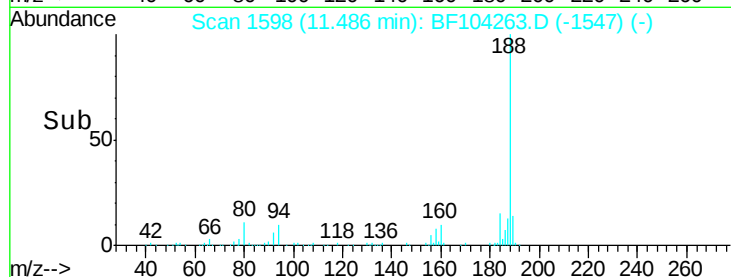
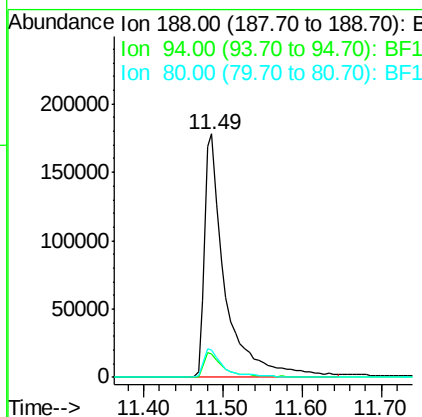
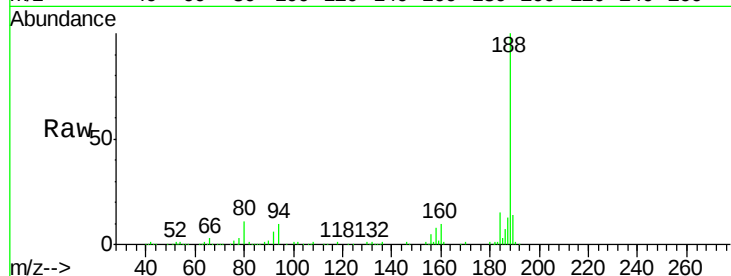




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.49 min Scan# 1598  
Delta R.T. -0.00 min  
Lab File: BF104263.D  
Acq: 5 Apr 2018 8:56

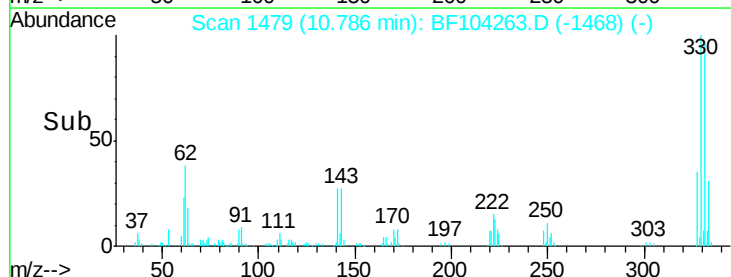
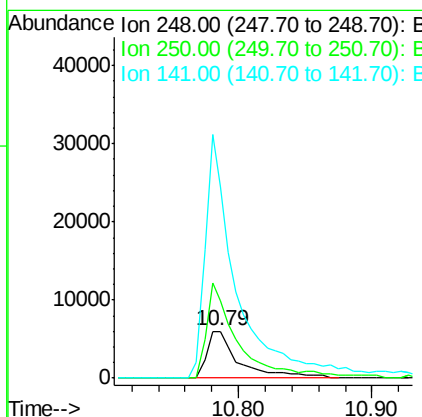
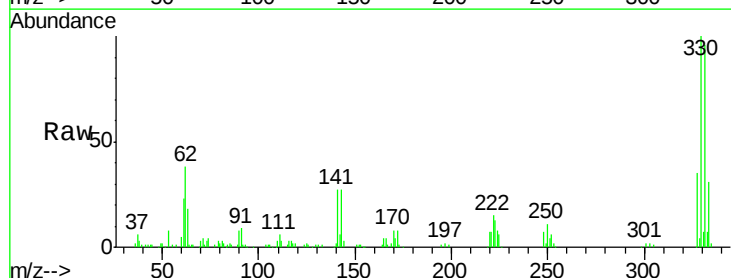
Instrument :  
BNA\_F  
ClientSampleId :

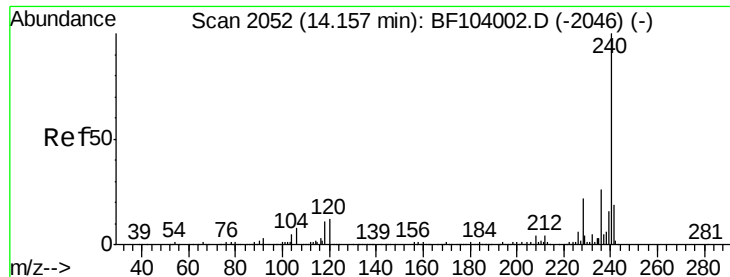
Tot Ion:188 Resp: 326944  
Ion Ratio Lower Upper  
188 100  
94 9.7 8.5 12.7  
80 11.1 9.2 13.8



#66  
4-Bromophenyl-phenylether  
Concen: 2.851 ng  
RT: 10.79 min Scan# 1479  
Delta R.T. -0.24 min  
Lab File: BF104263.D  
Acq: 5 Apr 2018 8:56

Tgt Ion:248 Resp: 9973  
Ion Ratio Lower Upper  
248 100  
250 165.2 76.9 115.3#  
141 407.6 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: BF104263.D

Acq: 5 Apr 2018 8:56

Instrument :

BNA\_F

ClientSampleId :

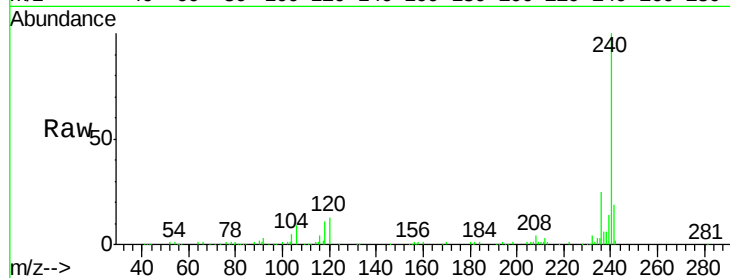
Tot Ion:240 Resp: 229590

Ion Ratio Lower Upper

240 100

120 12.9 9.5 14.3

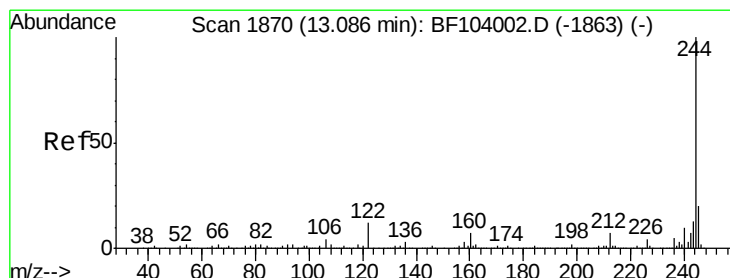
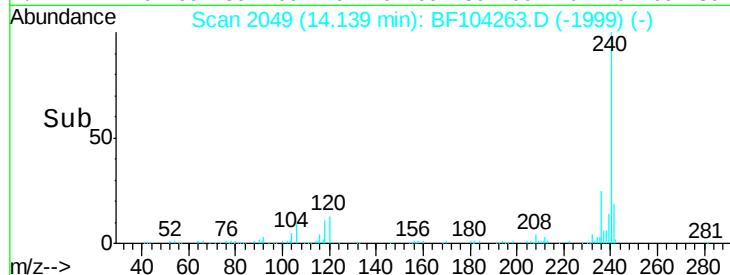
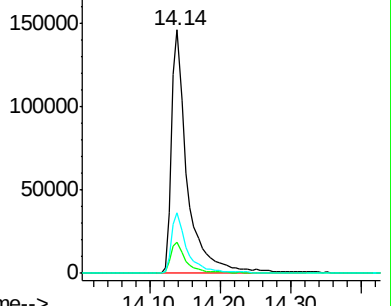
236 24.9 20.7 31.1



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: 93.319 ng

RT: 13.06 min Scan# 1866

Delta R.T. -0.01 min

Lab File: BF104263.D

Acq: 5 Apr 2018 8:56

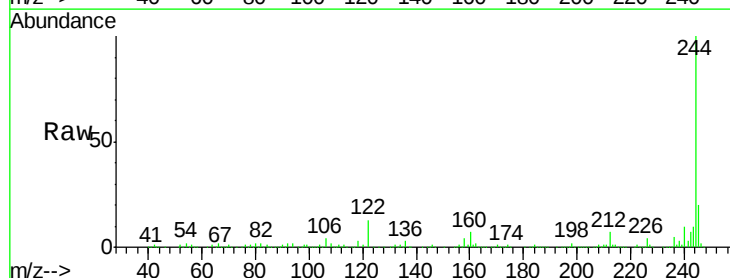
Tgt Ion:244 Resp: 927915

Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.0

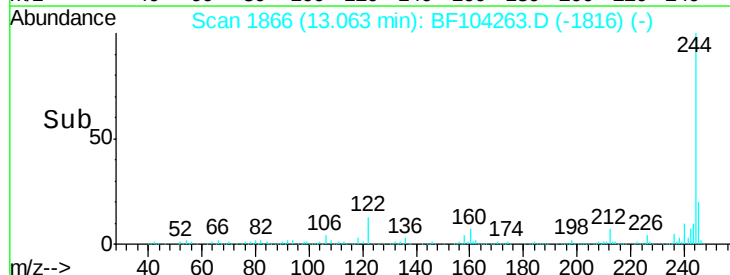
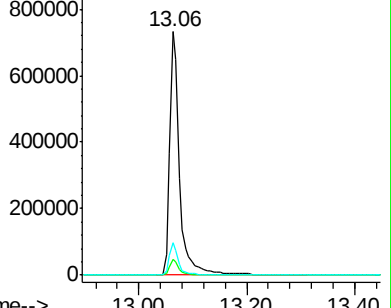
122 13.2 11.0 16.4

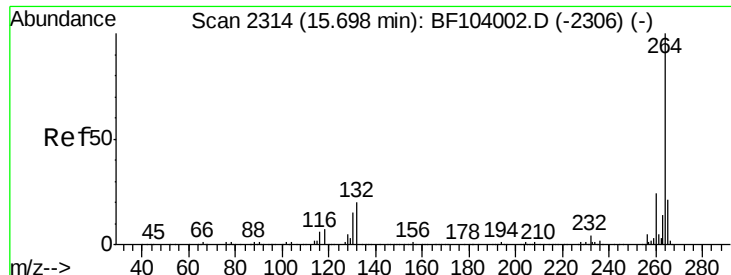


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

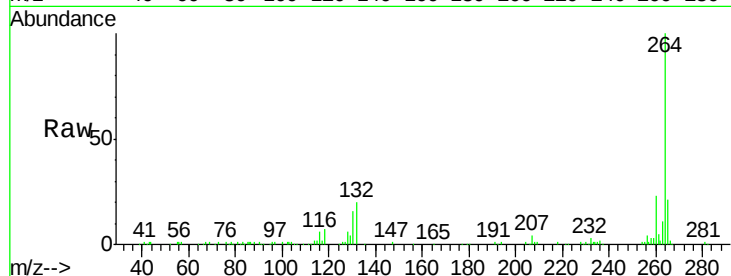




#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.67 min Scan# 2310  
 Delta R.T. -0.01 min  
 Lab File: BF104263.D  
 Acq: 5 Apr 2018 8:56

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.8  | 19.2  | 28.8  |
| 265     | 21.1  | 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

