

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042518\  
 Data File : BF104804.D  
 Acq On : 25 Apr 2018 22:08  
 Operator : JU/SJ  
 Sample : PB108602BL  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Apr 26 08:18:57 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 25 14:01:50 2018  
 Response via : Initial Calibration

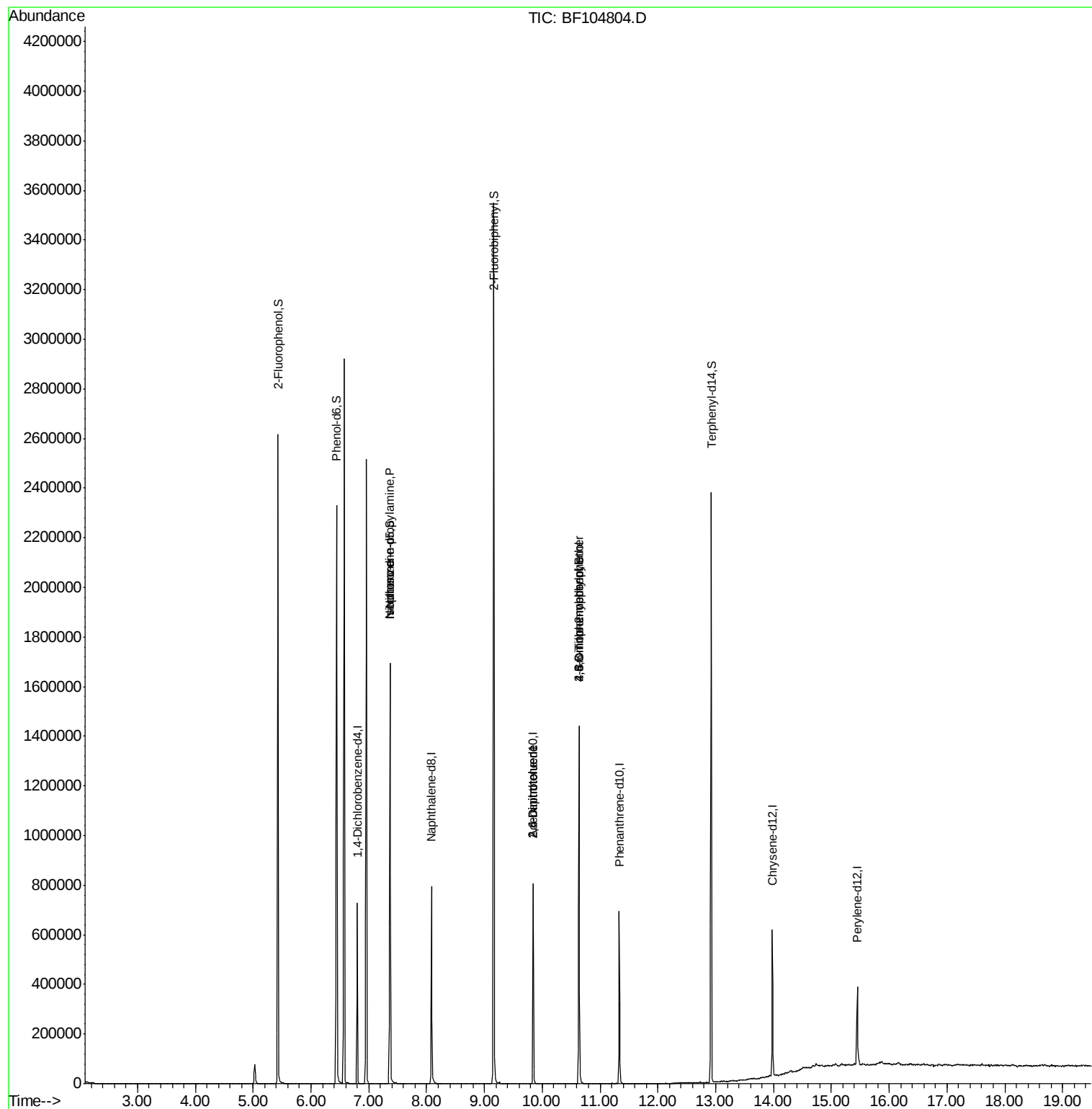
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.80  | 152  | 101040   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.09  | 136  | 406383   | 20.00     | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.84  | 164  | 172627   | 20.00     | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.33 | 188  | 258901   | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12               | 13.98 | 240  | 199595   | 20.00     | ng    | 0.00     |
| 86) Perylene-d12               | 15.45 | 264  | 149051   | 20.00     | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.43  | 112  | 807283   | 122.17    | ng    | 0.01     |
| 7) Phenol-d6                   | 6.45  | 99   | 983474   | 121.13    | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.37  | 82   | 610189   | 98.05     | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.64 | 330  | 202976   | 113.35    | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.16  | 172  | 1091560  | 99.89     | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.92 | 244  | 794562   | 90.76     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.45  | 77   | 1369     | Below Cal | #     | 1        |
| 19) n-Nitroso-di-n-propylamine | 7.37  | 70   | 79833    | 15.047    | ng    | # 73     |
| 25) Isophorone                 | 7.37  | 82   | 603535   | 45.860    | ng    | # 64     |
| 50) 2,6-Dinitrotoluene         | 9.84  | 165  | 21582    | 8.568     | ng    | # 25     |
| 56) 2,4-Dinitrotoluene         | 9.84  | 165  | 21582    | 6.532     | ng    | # 23     |
| 64) 4,6-Dinitro-2-methylphenol | 10.64 | 198  | 538      | 7.708     | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.64 | 248  | 12751    | 4.630     | ng    | # 1      |
| 76) Benzydine                  | 12.67 | 184  | 1188     | Below Cal | #     | 66       |

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

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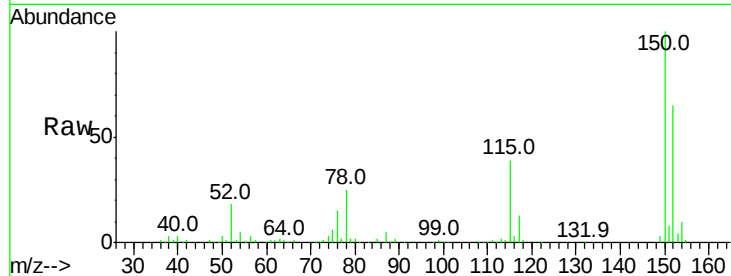


#1

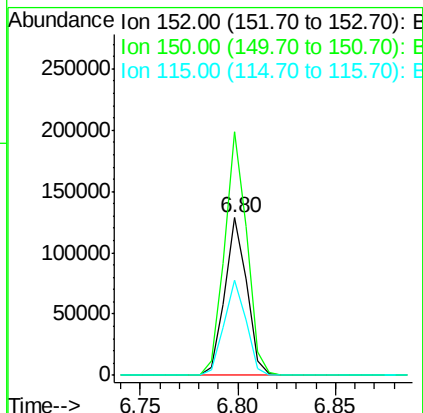
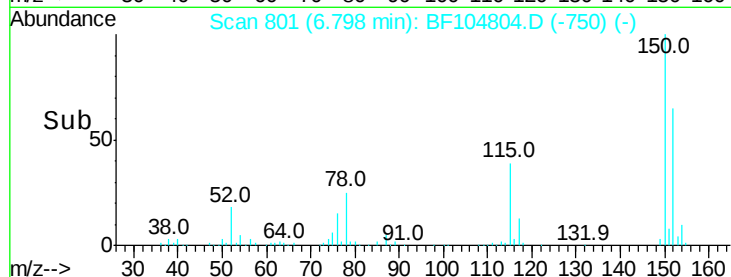
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.80 min Scan# 801  
Delta R.T. -0.00 min  
Lab File: BF104804.D  
Acq: 25 Apr 2018 22:08

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 101040  
Ion Ratio Lower Upper  
152 100  
150 154.7 124.6 186.8  
115 60.4 50.1 75.1



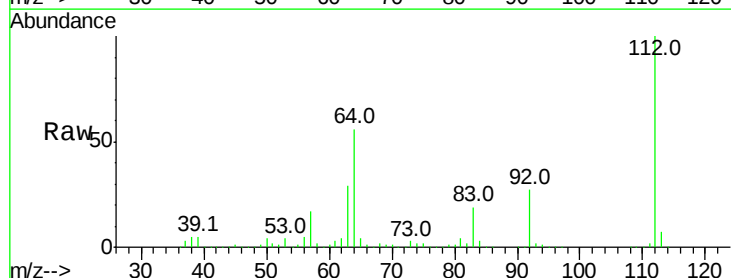
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



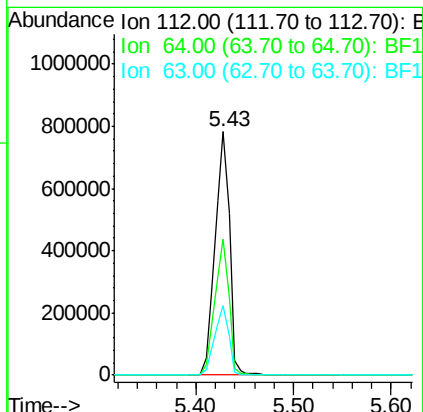
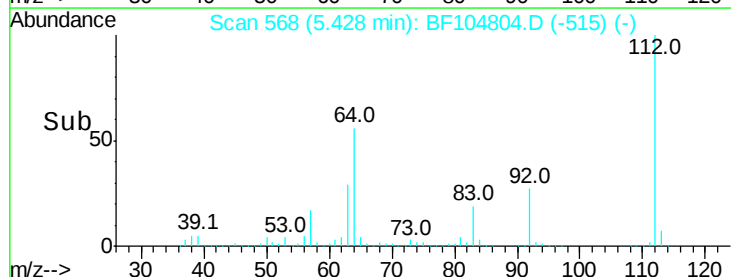
#5

2-Fluorophenol  
Concen: 122.168 ng  
RT: 5.43 min Scan# 568  
Delta R.T. 0.01 min  
Lab File: BF104804.D  
Acq: 25 Apr 2018 22:08

Tgt Ion:112 Resp: 807283  
Ion Ratio Lower Upper  
112 100  
64 55.7 47.9 71.9  
63 28.8 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: 121.131 ng

RT: 6.45 min Scan# 741

Delta R.T. -0.00 min

Lab File: BF104804.D

Acq: 25 Apr 2018 22:08

Instrument :

BNA\_F

ClientSampled :

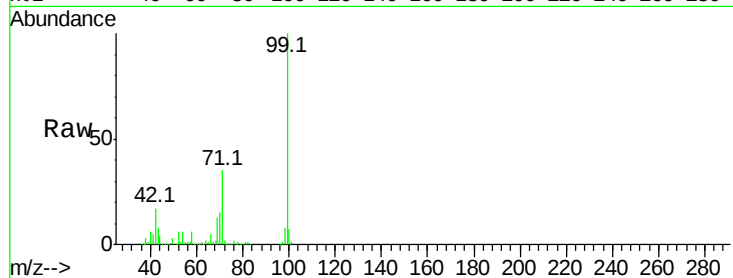
Tot Ion: 99 Resp: 983474

Ion Ratio Lower Upper

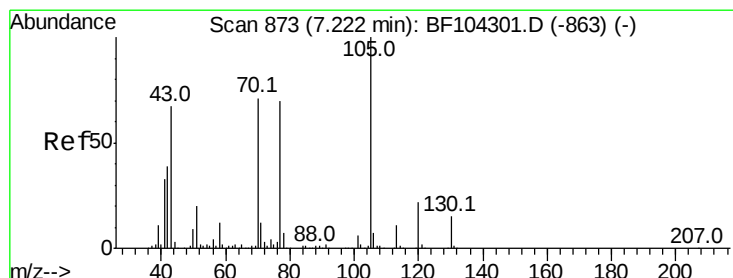
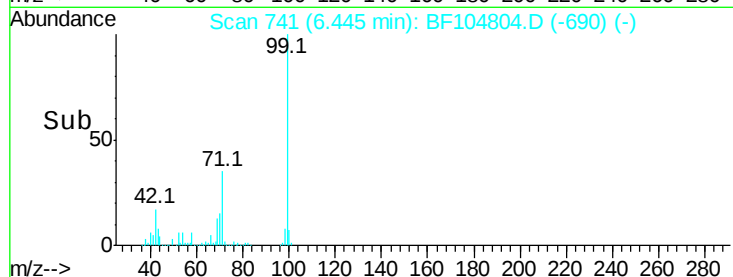
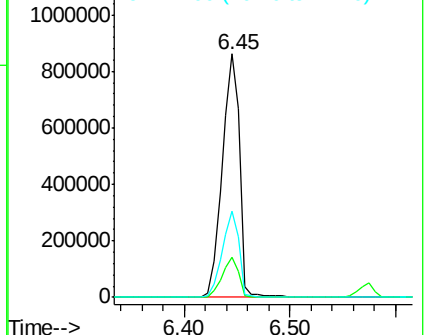
99 100

42 16.5 14.5 21.7

71 35.3 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: 15.047 ng

RT: 7.37 min Scan# 898

Delta R.T. 0.15 min

Lab File: BF104804.D

Acq: 25 Apr 2018 22:08

Tgt Ion: 70 Resp: 79833

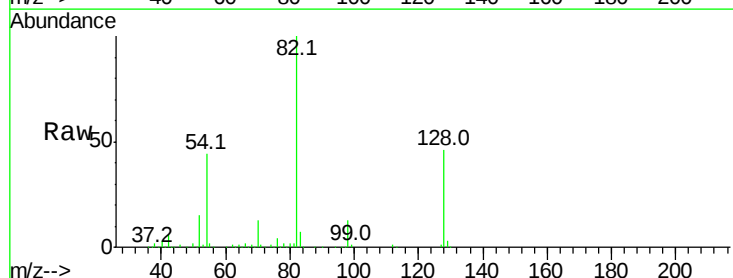
Ion Ratio Lower Upper

70 100

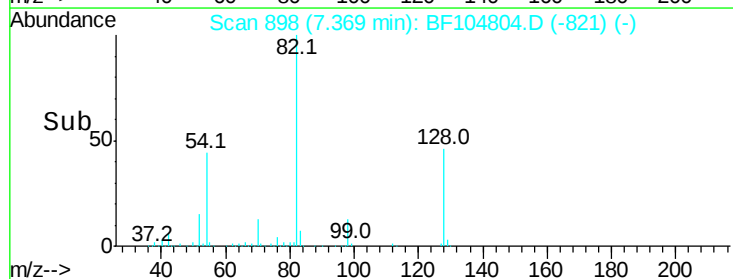
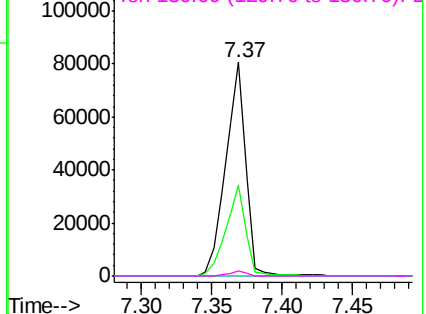
42 42.7 47.5 71.3#

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: 8.09 min Scan# 1020

Delta R.T. -0.00 min

Lab File: BF104804.D

Acq: 25 Apr 2018 22:08

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 406383

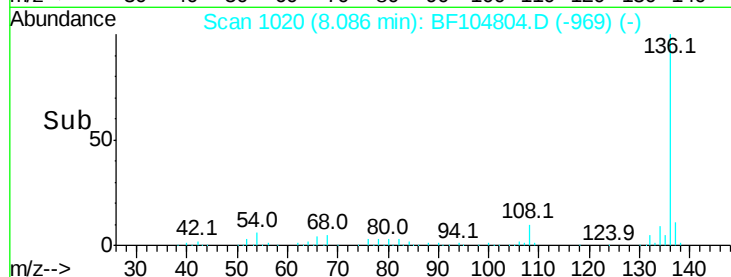
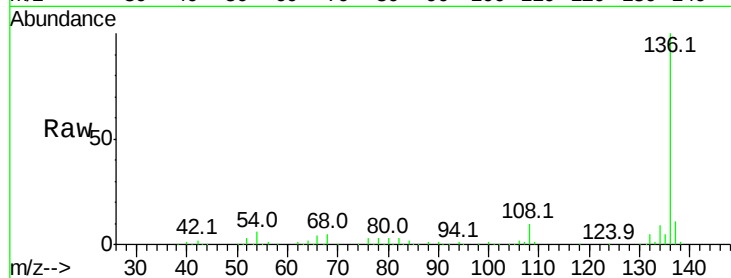
Ion Ratio Lower Upper

136 100

137 10.6 8.9 13.3

54 6.0 6.6 9.8#

68 5.2 5.0 7.4

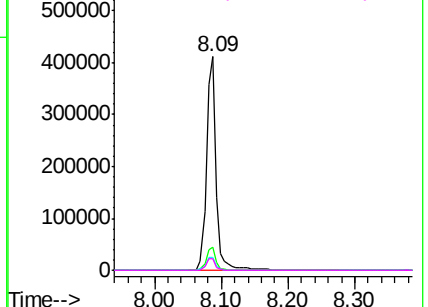


Abundance Ion 136.00 (135.70 to 136.70): E

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: 98.046 ng

RT: 7.37 min Scan# 898

Delta R.T. -0.01 min

Lab File: BF104804.D

Acq: 25 Apr 2018 22:08

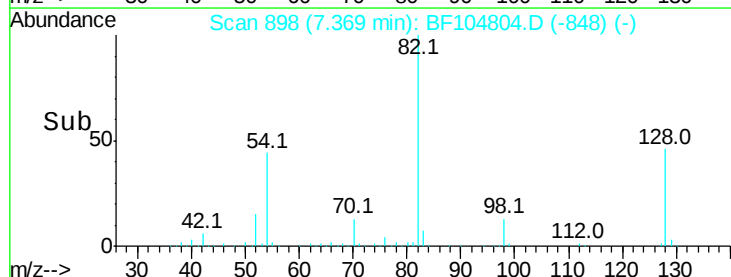
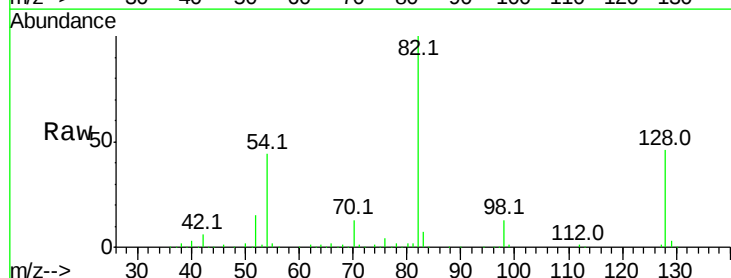
Tgt Ion: 82 Resp: 610189

Ion Ratio Lower Upper

82 100

128 46.5 36.1 54.1

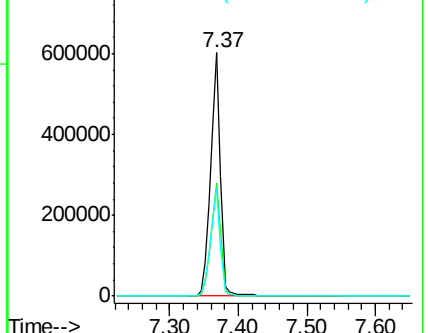
54 44.1 41.4 62.2

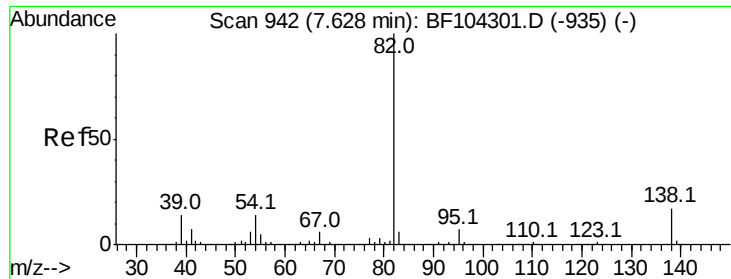


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 45.860 ng

RT: 7.37 min Scan# 898

Delta R.T. -0.26 min

Lab File: BF104804.D

Acq: 25 Apr 2018 22:08

Instrument :

BNA\_F

ClientSampleId :

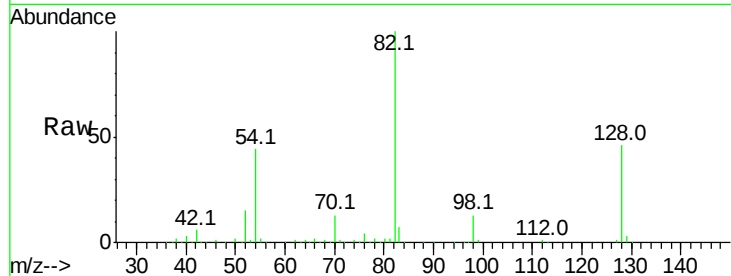
Tot Ion: 82 Resp: 603535

Ion Ratio Lower Upper

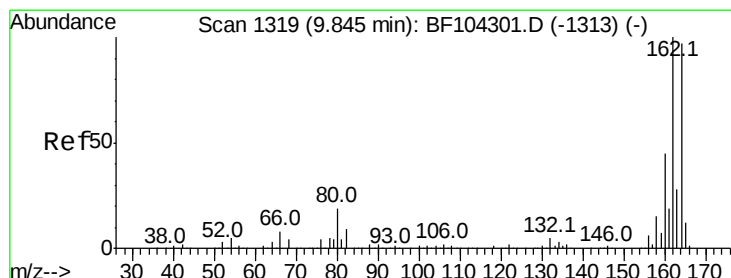
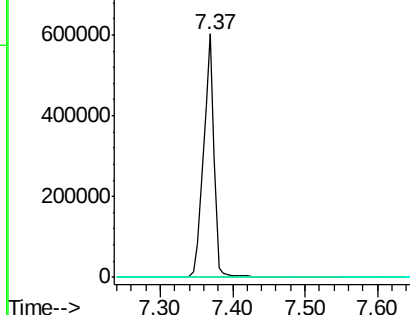
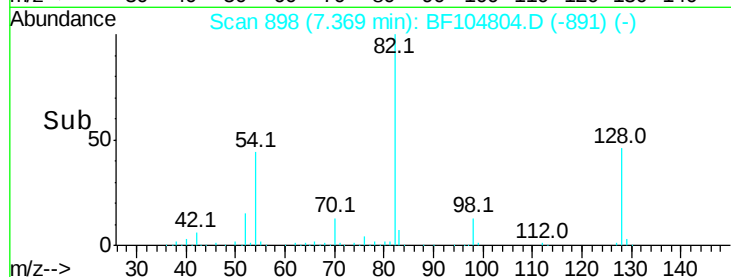
82 100

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: 9.84 min Scan# 1318

Delta R.T. -0.01 min

Lab File: BF104804.D

Acq: 25 Apr 2018 22:08

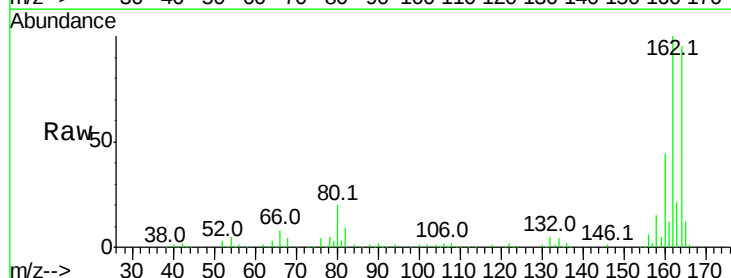
Tgt Ion:164 Resp: 172627

Ion Ratio Lower Upper

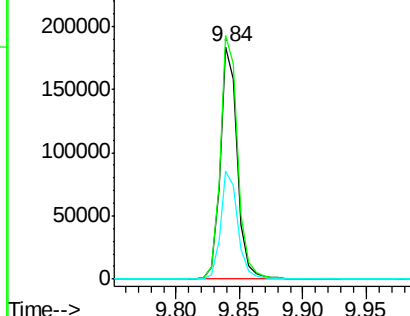
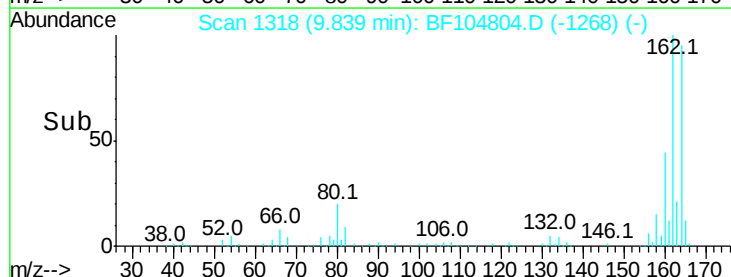
164 100

162 104.8 86.1 129.1

160 46.3 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

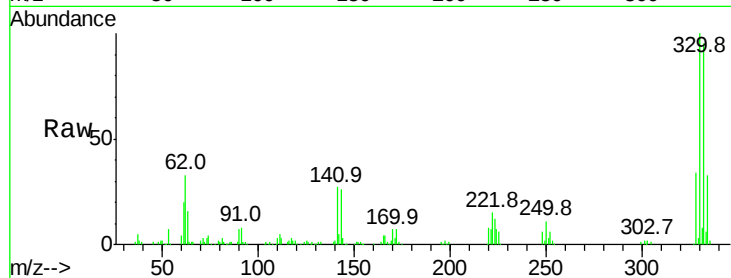




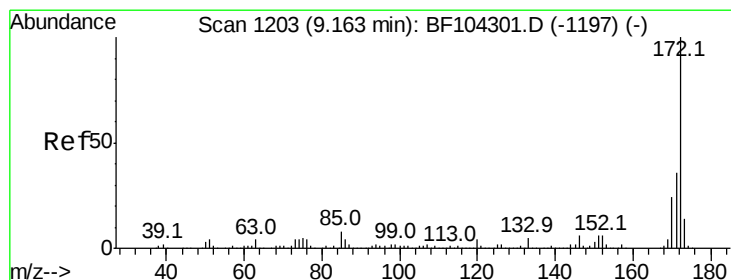
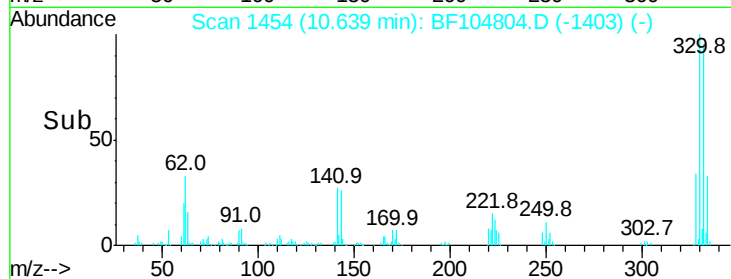
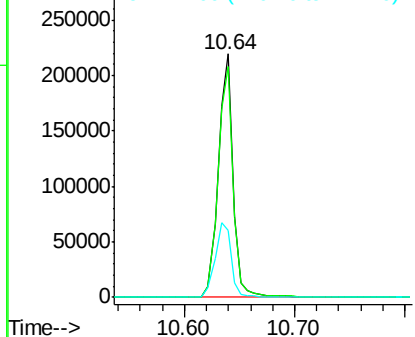
#41  
 2,4,6-Tribromophenol  
 Concen: 113.350 ng  
 RT: 10.64 min Scan# 1454  
 Delta R.T. -0.00 min  
 Lab File: BF104804.D  
 Acq: 25 Apr 2018 22:08

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | 330 | Ratio | 100 | Resp | 202976 | Lower | Upper |
|---------|-----|-------|-----|------|--------|-------|-------|
| Ion     | 330 | 100   |     |      |        |       |       |
|         | 332 | 97.2  |     |      |        | 77.0  | 115.6 |
|         | 141 | 33.6  |     |      |        | 29.9  | 44.9  |

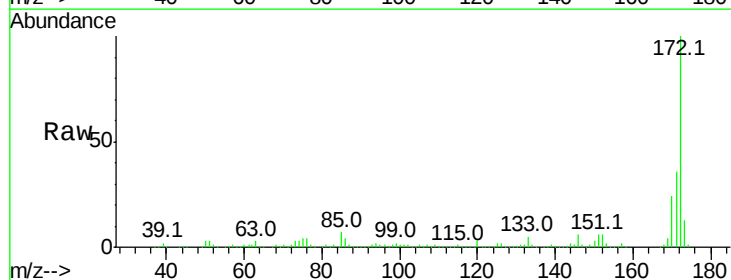


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

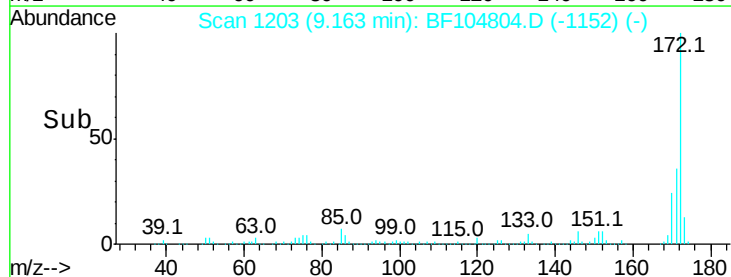
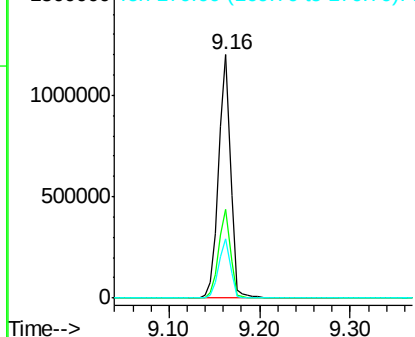


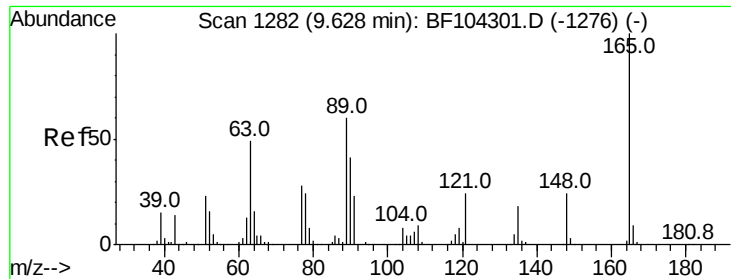
#44  
 2-Fluorobiphenyl  
 Concen: 99.891 ng  
 RT: 9.16 min Scan# 1203  
 Delta R.T. -0.00 min  
 Lab File: BF104804.D  
 Acq: 25 Apr 2018 22:08

| Tgt Ion | 172 | Ratio | 100 | Resp | 1091560 | Lower | Upper |
|---------|-----|-------|-----|------|---------|-------|-------|
| Ion     | 172 | 100   |     |      |         |       |       |
|         | 171 | 36.4  |     |      |         | 29.7  | 44.5  |
|         | 170 | 24.1  |     |      |         | 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

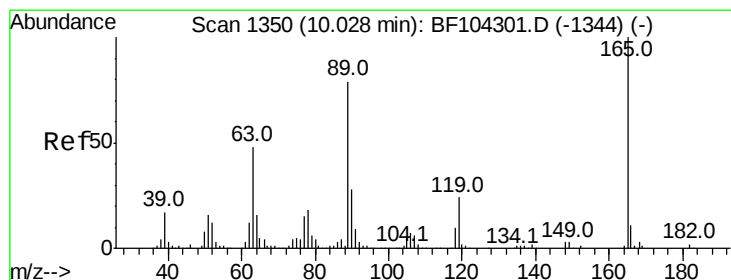
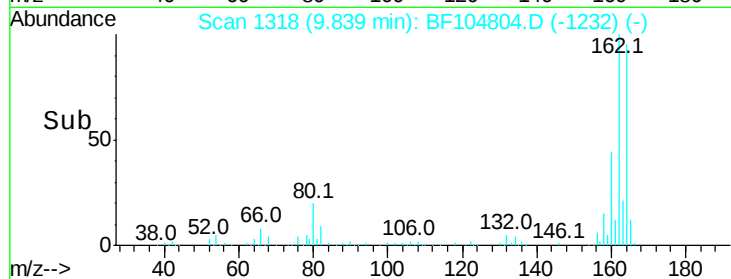
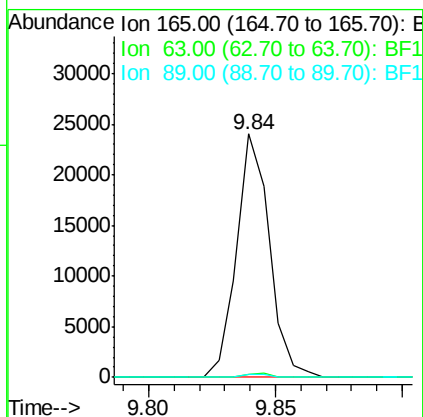
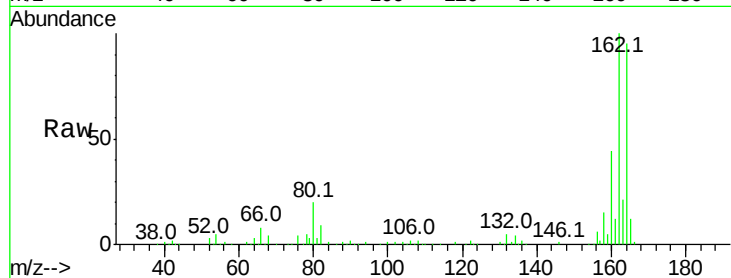




#50  
 2,6-Dinitrotoluene  
 Concen: 8.568 ng  
 RT: 9.84 min Scan# 1318  
 Delta R.T. 0.21 min  
 Lab File: BF104804.D  
 Acq: 25 Apr 2018 22:08

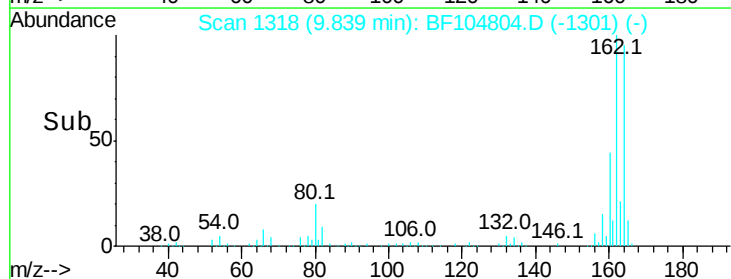
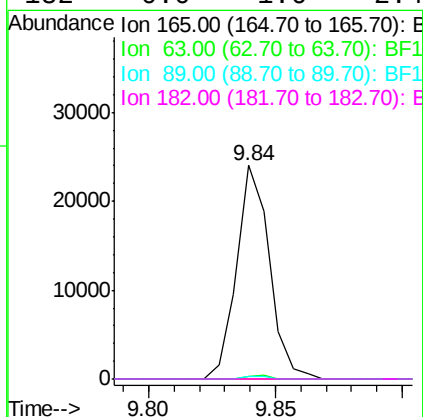
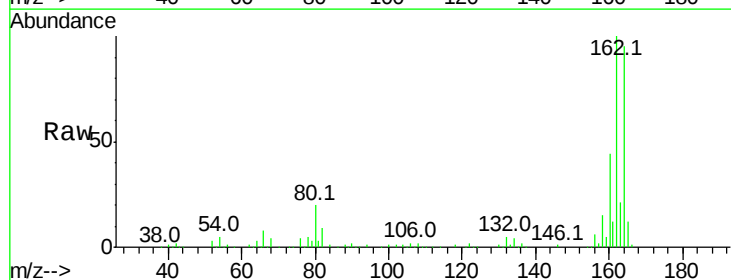
Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.3   | 44.7  | 67.1# |
| 89      | 1.3   | 44.0  | 66.0# |



#56  
 2,4-Dinitrotoluene  
 Concen: 6.532 ng  
 RT: 9.84 min Scan# 1318  
 Delta R.T. -0.20 min  
 Lab File: BF104804.D  
 Acq: 25 Apr 2018 22:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.3   | 36.4  | 54.6# |
| 89      | 1.3   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |

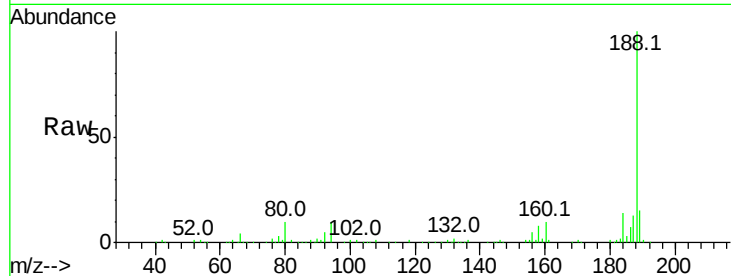




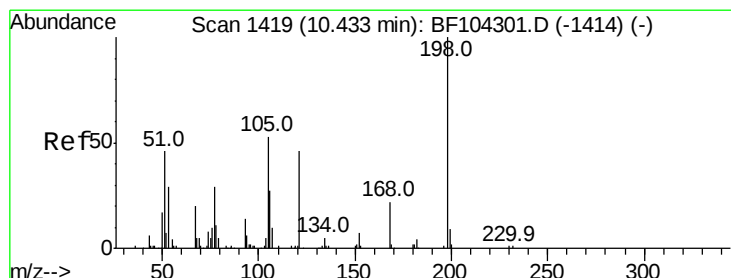
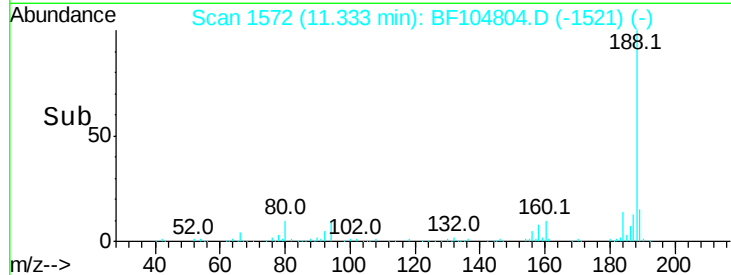
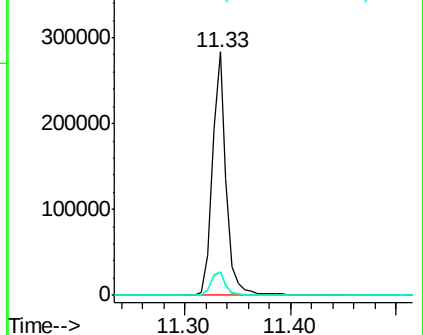
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.33 min Scan# 1572  
Delta R.T. -0.00 min  
Lab File: BF104804.D  
Acq: 25 Apr 2018 22:08

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:188 Resp: 258901  
Ion Ratio Lower Upper  
188 100  
94 9.6 8.5 12.7  
80 9.7 9.2 13.8

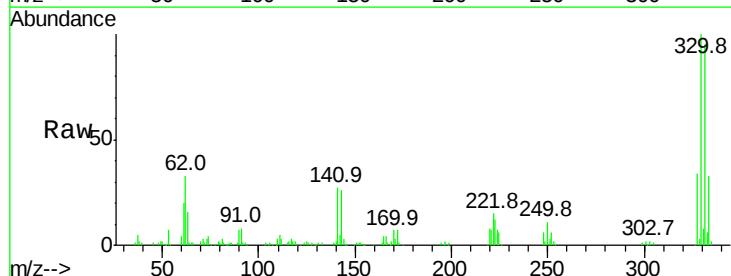


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

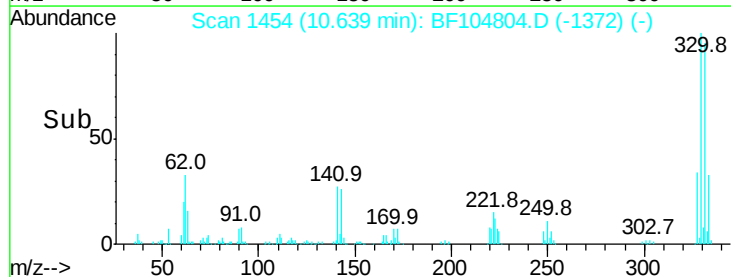
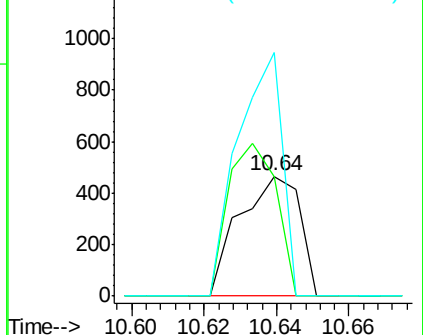


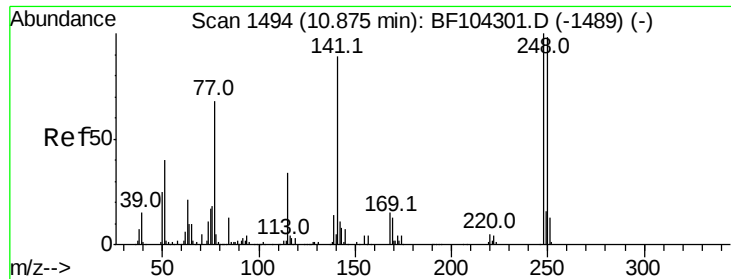
#64  
4,6-Dinitro-2-methylphenol  
Concen: 7.708 ng  
RT: 10.64 min Scan# 1454  
Delta R.T. 0.18 min  
Lab File: BF104804.D  
Acq: 25 Apr 2018 22:08

Tgt Ion:198 Resp: 538  
Ion Ratio Lower Upper  
198 100  
51 100.0 37.7 77.7#  
105 203.0 36.3 76.3#



Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BF1  
Ion 105.00 (104.70 to 105.70): E

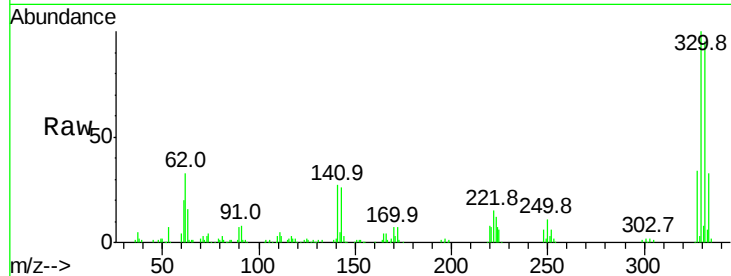




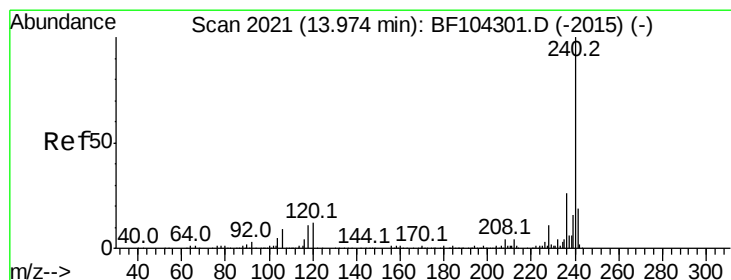
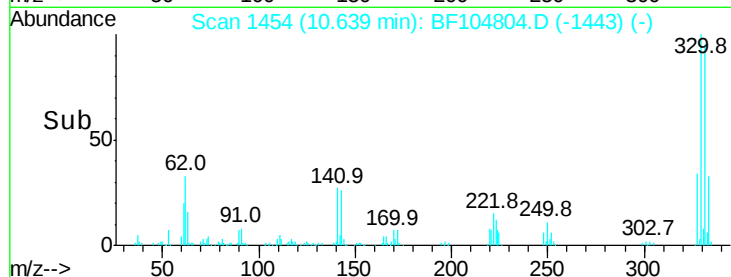
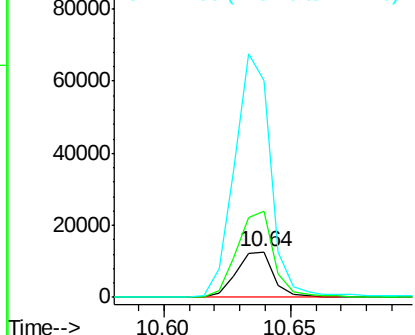
#66  
4-Bromophenyl-phenylether  
Concen: 4.630 ng  
RT: 10.64 min Scan# 1454  
Delta R.T. -0.24 min  
Lab File: BF104804.D  
Acq: 25 Apr 2018 22:08

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 12751  
Ion Ratio Lower Upper  
248 100  
250 189.3 76.9 115.3#  
141 478.9 74.4 111.6#

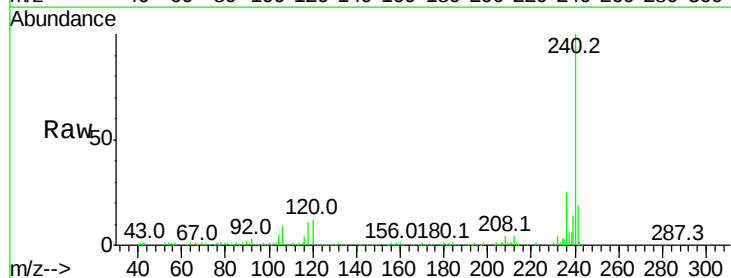


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

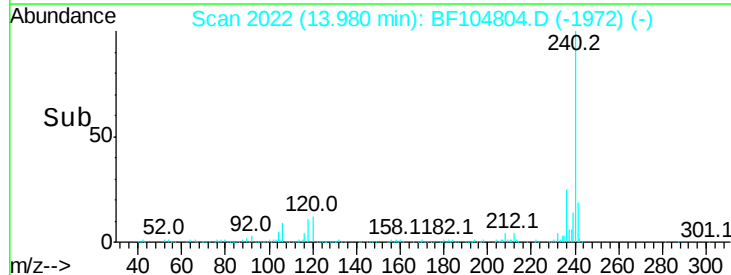
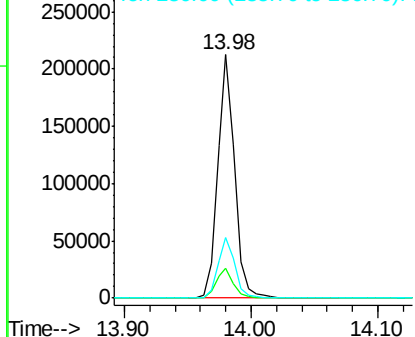


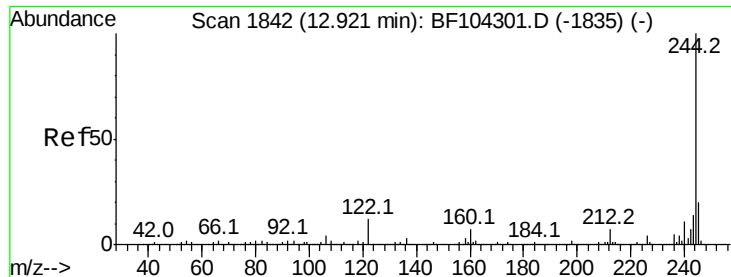
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.98 min Scan# 2022  
Delta R.T. -0.01 min  
Lab File: BF104804.D  
Acq: 25 Apr 2018 22:08

Tgt Ion:240 Resp: 199595  
Ion Ratio Lower Upper  
240 100  
120 12.3 9.5 14.3  
236 24.8 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

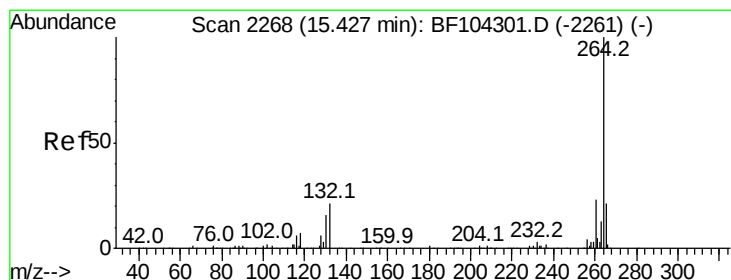
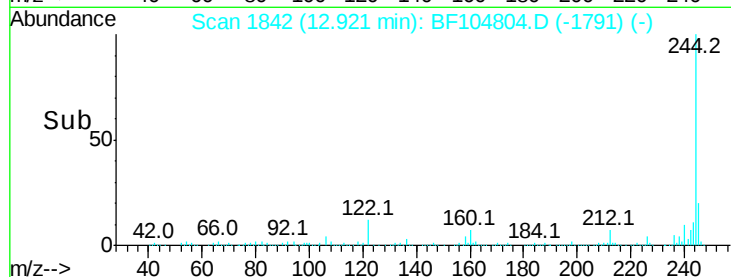
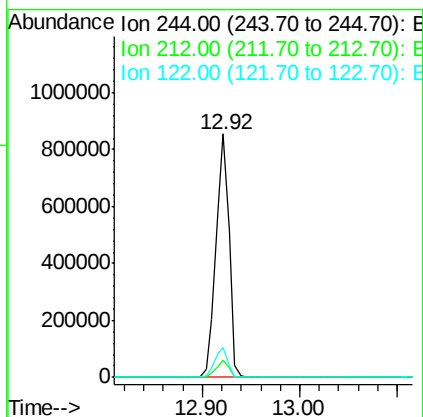
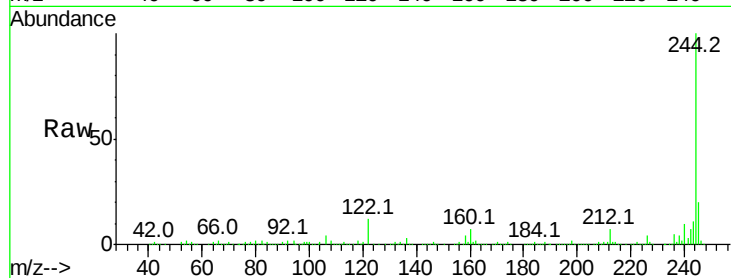




#78  
 Terphenyl-d14  
 Concen: 90.757 ng  
 RT: 12.92 min Scan# 1842  
 Delta R.T. -0.00 min  
 Lab File: BF104804.D  
 Acq: 25 Apr 2018 22:08

Instrument :  
 BNA\_F  
 ClientSampleID :

Tot Ion:244 Resp: 794562  
 Ion Ratio Lower Upper  
 244 100  
 212 7.1 5.4 8.0  
 122 12.2 11.0 16.4



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.45 min Scan# 2272  
 Delta R.T. -0.01 min  
 Lab File: BF104804.D  
 Acq: 25 Apr 2018 22:08

Tgt Ion:264 Resp: 149051  
 Ion Ratio Lower Upper  
 264 100  
 260 22.7 19.2 28.8  
 265 20.7 17.5 26.3

