

Data Path : Z:\HPCHEM1\BNA F\DATA\BF043018\  
 Data File : BF104958.D  
 Acq On : 1 May 2018 3:25  
 Operator : JU/SJ  
 Sample : J2617-01  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: May 01 04:43:51 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 30 15:20:08 2018  
 Response via : Initial Calibration

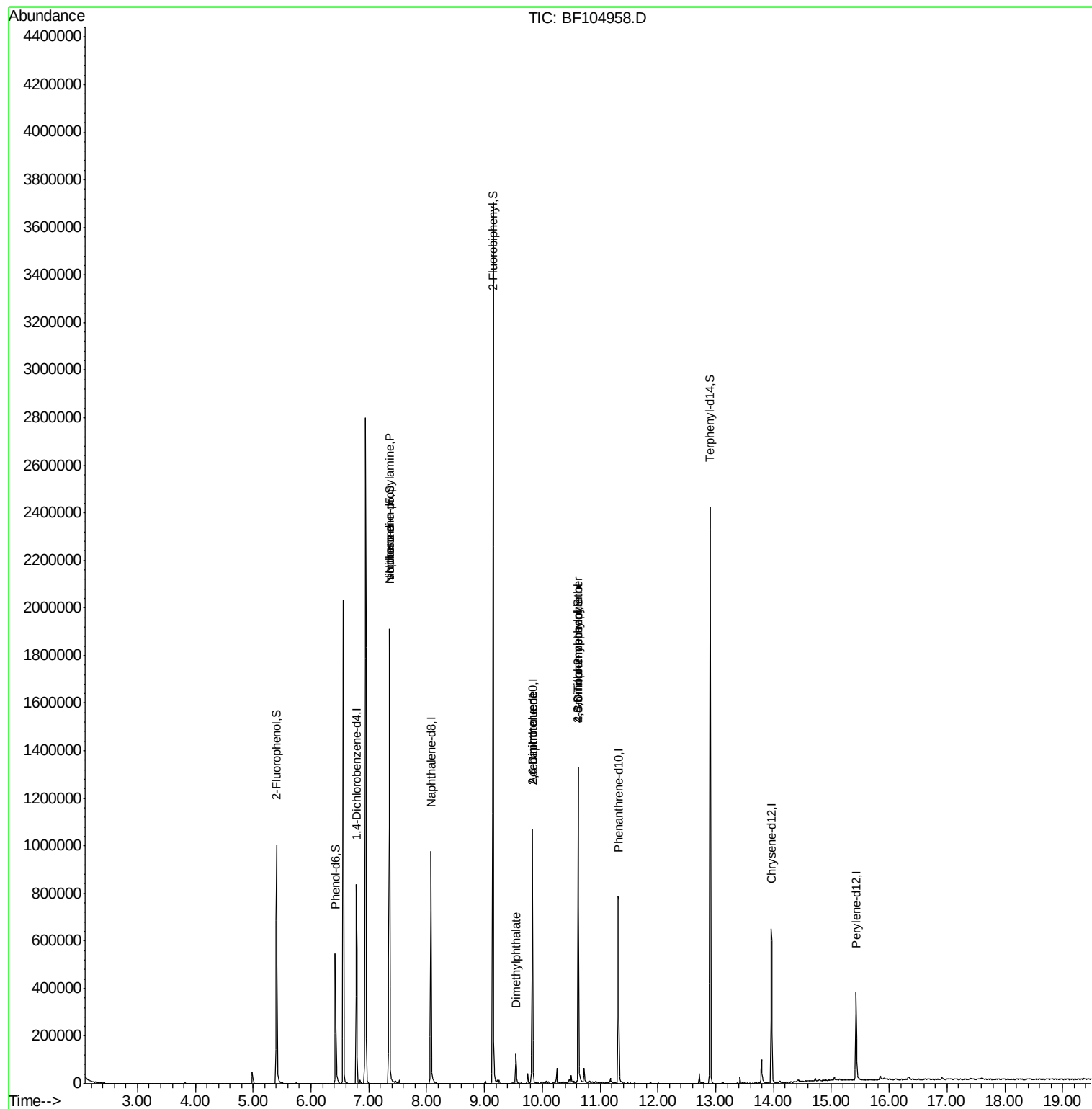
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.79  | 152  | 121489   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.07  | 136  | 491381   | 20.00     | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.83  | 164  | 209349   | 20.00     | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.32 | 188  | 327078   | 20.00     | ng    | -0.01    |
| 75) Chrysene-d12               | 13.96 | 240  | 242580   | 20.00     | ng    | -0.01    |
| 86) Perylene-d12               | 15.43 | 264  | 190880   | 20.00     | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.40  | 112  | 307526   | 38.71     | ng    | 0.00     |
| 7) Phenol-d6                   | 6.42  | 99   | 225141   | 23.06     | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.36  | 82   | 753974   | 100.19    | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.62 | 330  | 168773   | 77.72     | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.15  | 172  | 1271428  | 95.94     | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.91 | 244  | 911168   | 85.63     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.36  | 70   | 97629    | 15.30     | ng    | # 72     |
| 25) Isophorone                 | 7.36  | 82   | 753971   | 47.38     | ng    | # 64     |
| 49) Dimethylphthalate          | 9.55  | 163  | 58080    | 3.52      | ng    | 100      |
| 50) 2,6-Dinitrotoluene         | 9.83  | 165  | 26362    | 8.63      | ng    | # 25     |
| 56) 2,4-Dinitrotoluene         | 9.83  | 165  | 26362    | 6.58      | ng    | # 23     |
| 64) 4,6-Dinitro-2-methylphenol | 10.62 | 198  | 148      | 7.43      | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.62 | 248  | 10622    | 3.05      | ng    | # 1      |
| 76) Benzidine                  | 12.91 | 184  | 11878    | Below Cal |       | 97       |

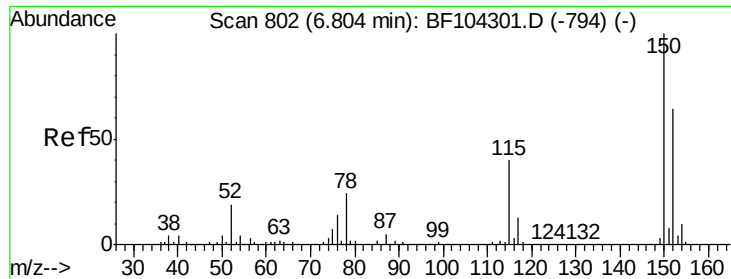
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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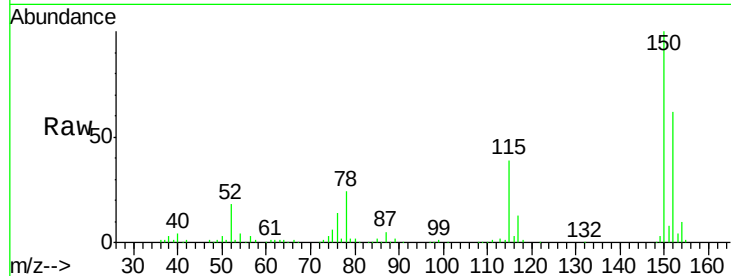


#1

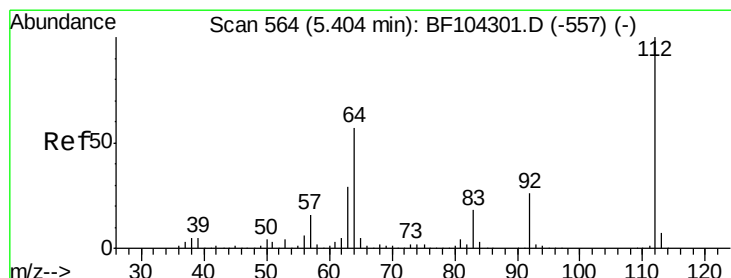
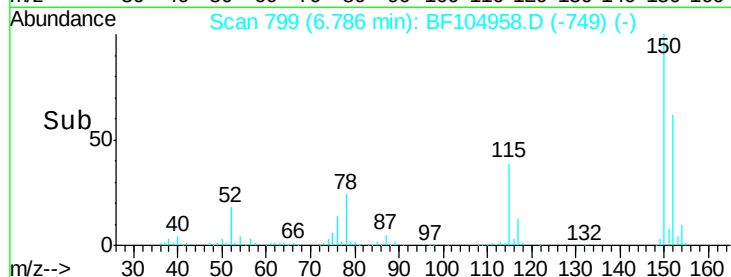
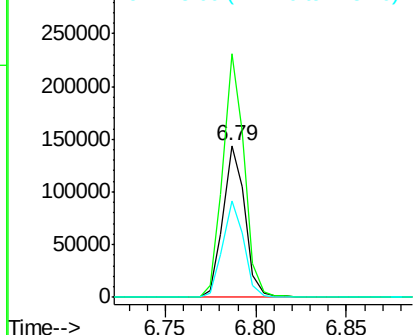
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.79 min Scan# 799  
Delta R.T. -0.01 min  
Lab File: BF104958.D  
Acq: 1 May 2018 3:25

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 160.3 | 124.6 | 186.8 |
| 115     | 63.2  | 50.1  | 75.1  |



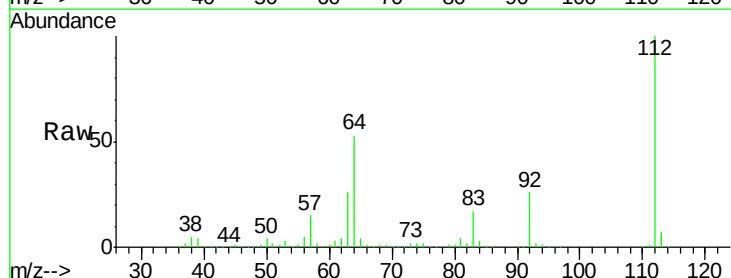
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



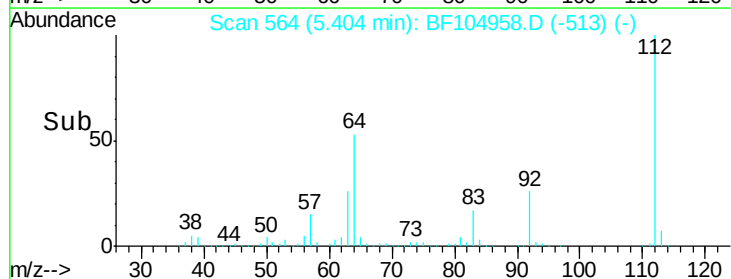
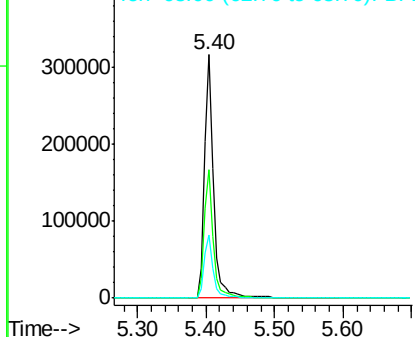
#5

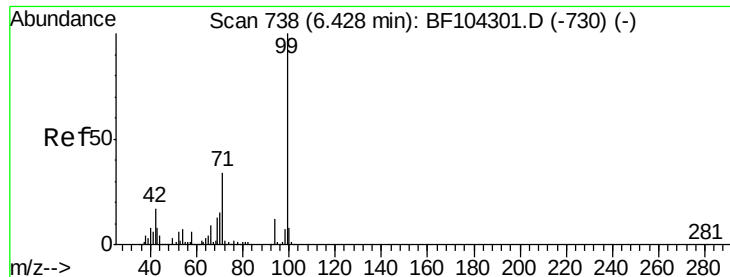
2-Fluorophenol  
Concen: 38.71 ng  
RT: 5.40 min Scan# 564  
Delta R.T. -0.00 min  
Lab File: BF104958.D  
Acq: 1 May 2018 3:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 52.8  | 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: 23.06 ng

RT: 6.42 min Scan# 737

Delta R.T. -0.02 min

Lab File: BF104958.D

Acq: 1 May 2018 3:25

Instrument :

BNA\_F

ClientSampleId :

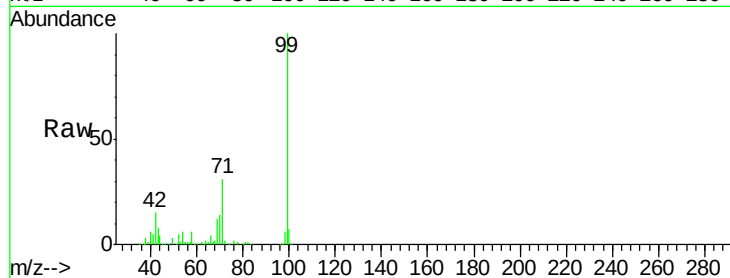
Tot Ion: 99 Resp: 225141

Ion Ratio Lower Upper

99 100

42 15.1 14.5 21.7

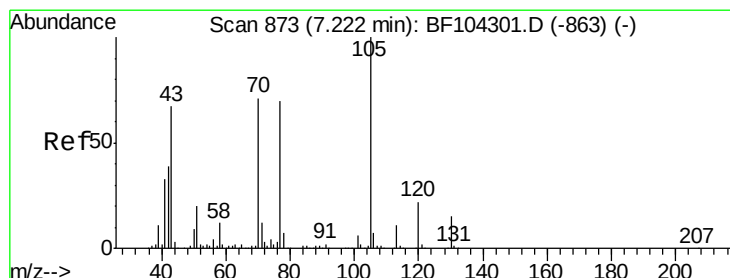
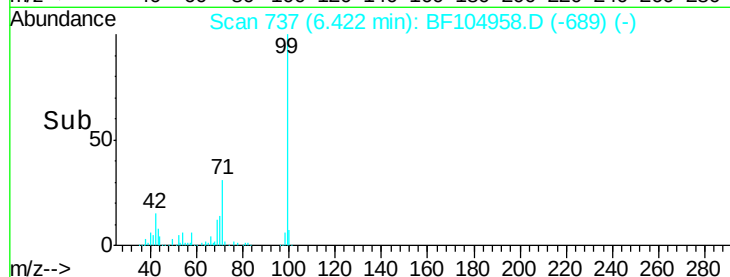
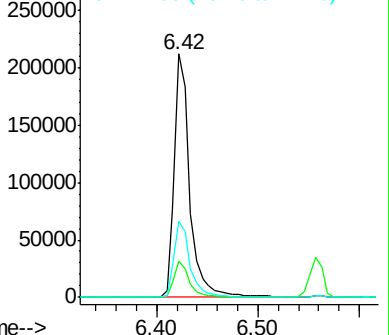
71 31.3 25.4 38.0



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: 15.30 ng

RT: 7.36 min Scan# 897

Delta R.T. 0.15 min

Lab File: BF104958.D

Acq: 1 May 2018 3:25

Tgt Ion: 70 Resp: 97629

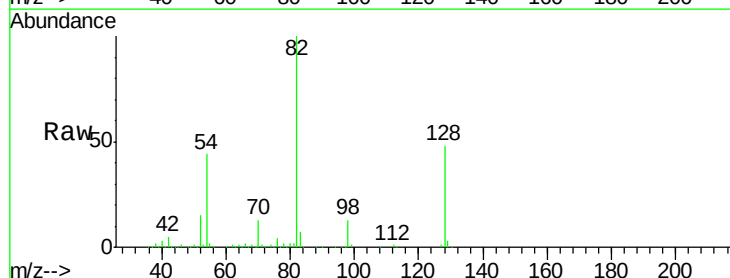
Ion Ratio Lower Upper

70 100

42 40.6 47.5 71.3#

101 0.0 7.4 11.2#

130 2.3 16.6 25.0#

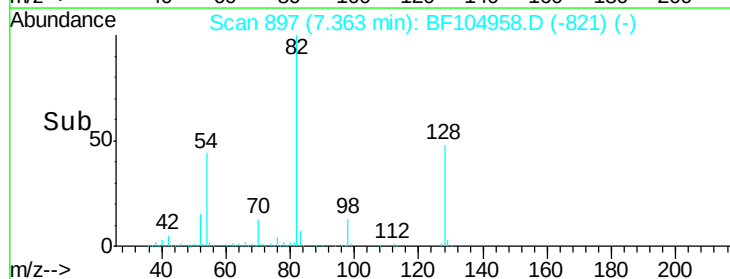
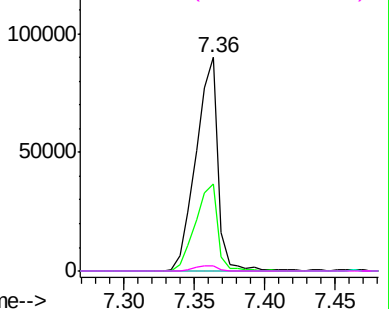


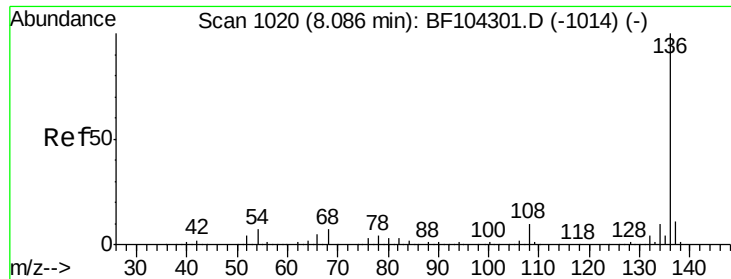
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

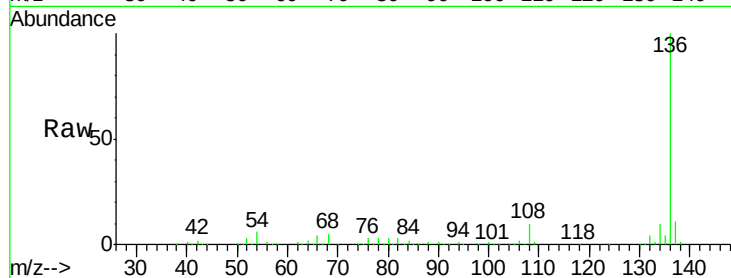




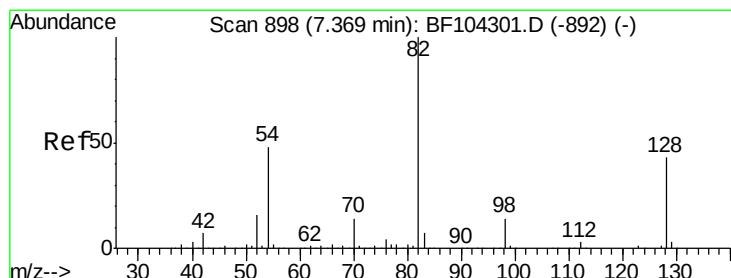
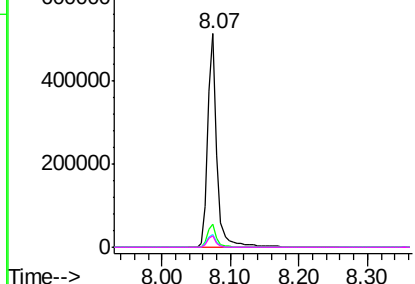
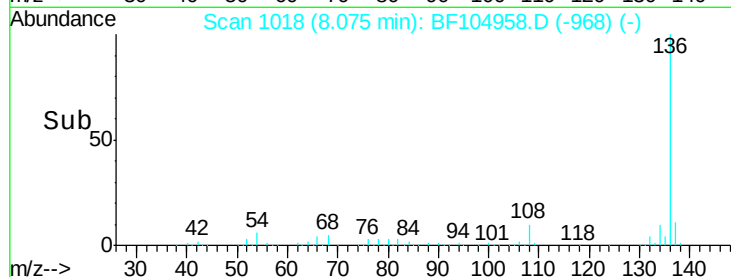
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.07 min Scan# 1018  
Delta R.T. -0.01 min  
Lab File: BF104958.D  
Acq: 1 May 2018 3:25

Instrument :  
BNA\_F  
ClientSampleId :

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 136   | Resp: | 491381 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.9  | 8.9   | 13.3   |
| 54        | 6.1   | 6.6   | 9.8#   |
| 68        | 5.5   | 5.0   | 7.4    |

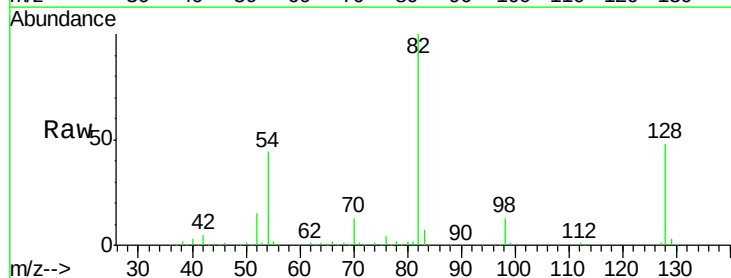


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

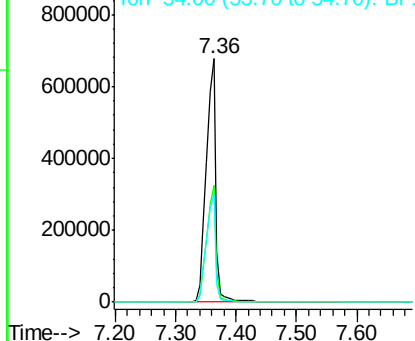
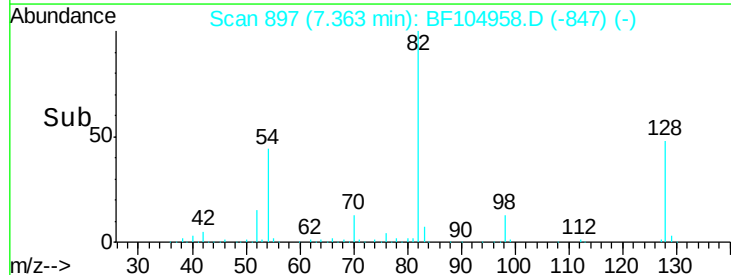


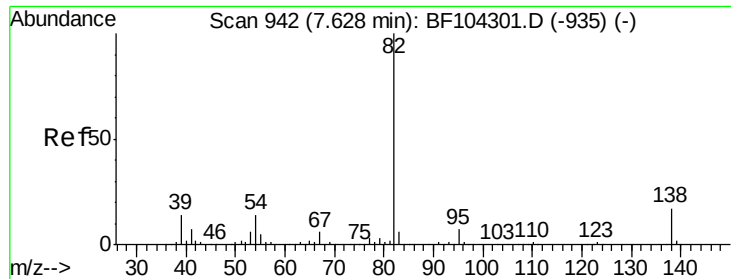
#23  
Nitrobenzene-d5  
Concen: 100.19 ng  
RT: 7.36 min Scan# 897  
Delta R.T. -0.01 min  
Lab File: BF104958.D  
Acq: 1 May 2018 3:25

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 82    | Resp: | 753974 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 47.8  | 36.1  | 54.1   |
| 54        | 44.2  | 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: 47.38 ng

RT: 7.36 min Scan# 897

Delta R.T. -0.26 min

Lab File: BF104958.D

Acq: 1 May 2018 3:25

Instrument :

BNA\_F

ClientSampled :

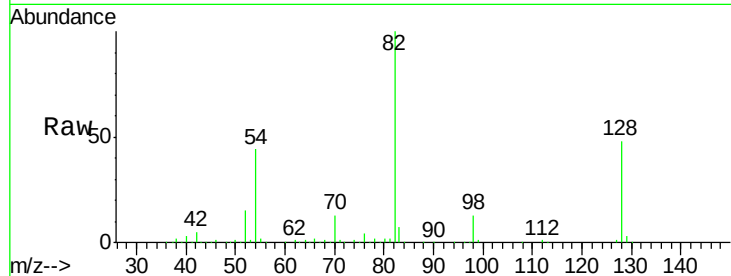
Tot Ion: 82 Resp: 753971

Ion Ratio Lower Upper

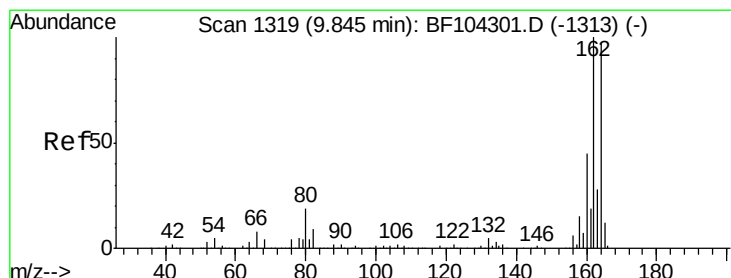
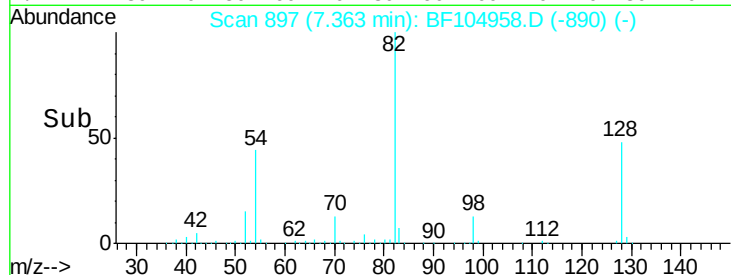
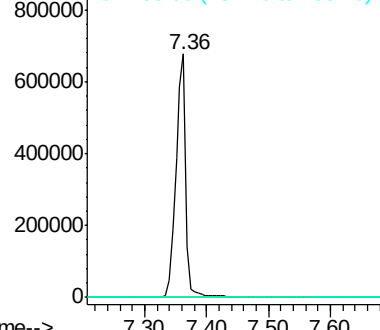
82 100

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: 20.00 ng

RT: 9.83 min Scan# 1316

Delta R.T. -0.01 min

Lab File: BF104958.D

Acq: 1 May 2018 3:25

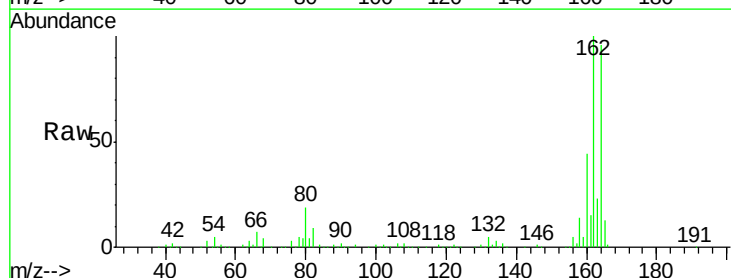
Tgt Ion: 164 Resp: 209349

Ion Ratio Lower Upper

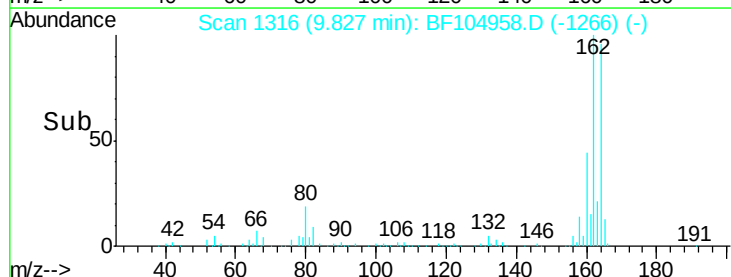
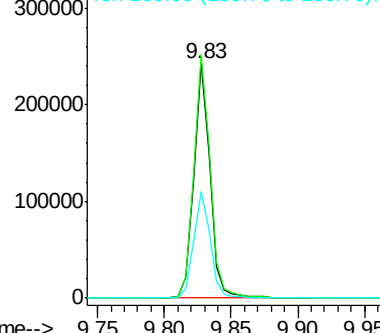
164 100

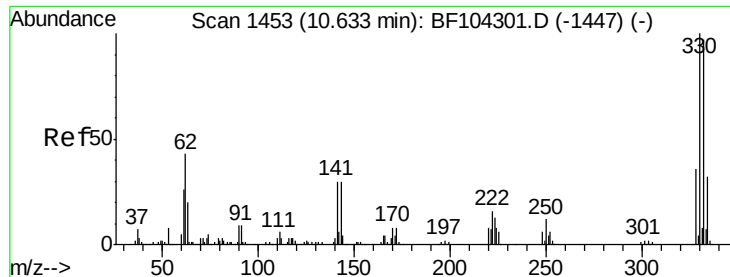
162 103.9 86.1 129.1

160 45.7 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: 77.72 ng

RT: 10.62 min Scan# 1451

Delta R.T. -0.01 min

Lab File: BF104958.D

Acq: 1 May 2018 3:25

Instrument :

BNA\_F

ClientSampleId :

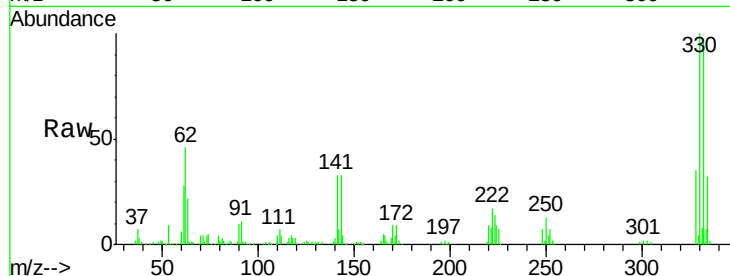
Tot Ion:330 Resp: 168773

Ion Ratio Lower Upper

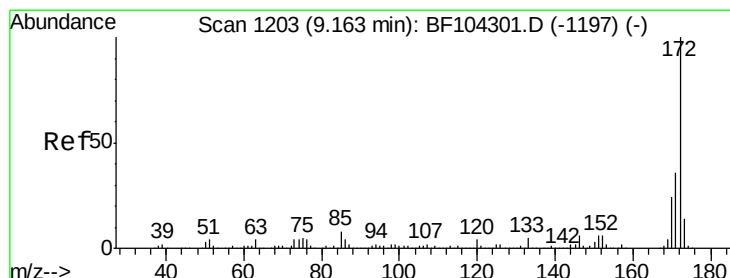
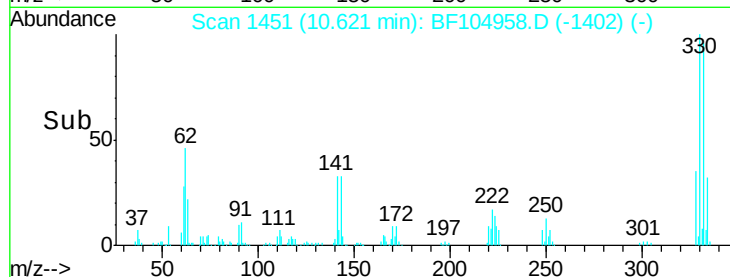
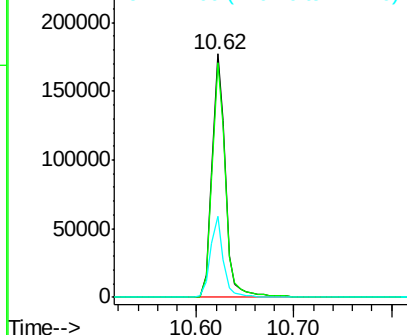
330 100

332 96.8 77.0 115.6

141 32.3 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: 95.94 ng

RT: 9.15 min Scan# 1201

Delta R.T. -0.01 min

Lab File: BF104958.D

Acq: 1 May 2018 3:25

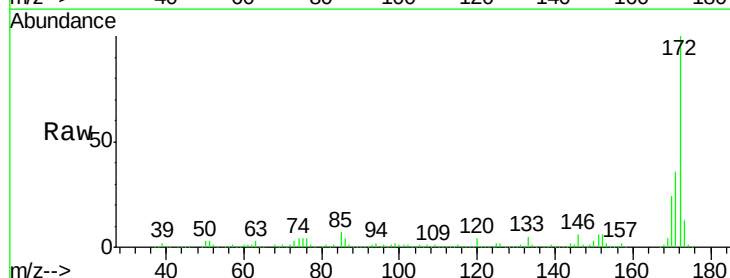
Tgt Ion:172 Resp: 1271428

Ion Ratio Lower Upper

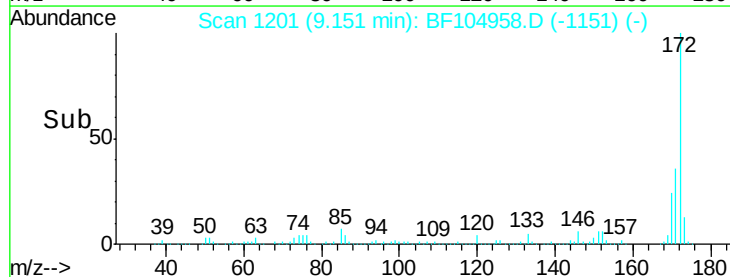
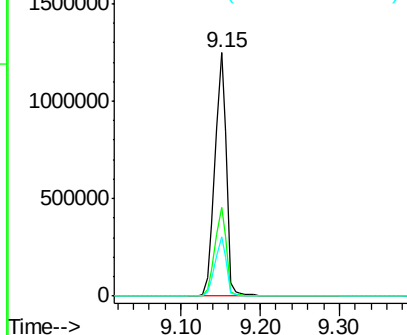
172 100

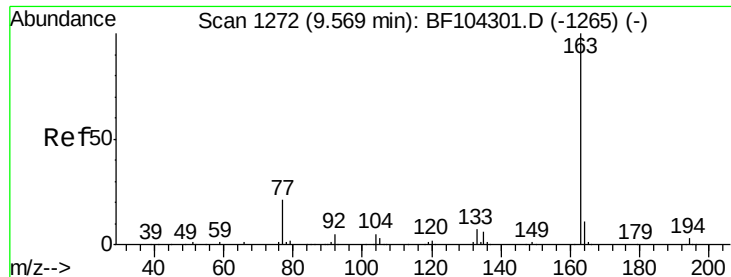
171 36.4 29.7 44.5

170 24.3 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: 3.52 ng

RT: 9.55 min Scan# 1268

Delta R.T. -0.01 min

Lab File: BF104958.D

Acq: 1 May 2018 3:25

Instrument :

BNA\_F

ClientSampleId :

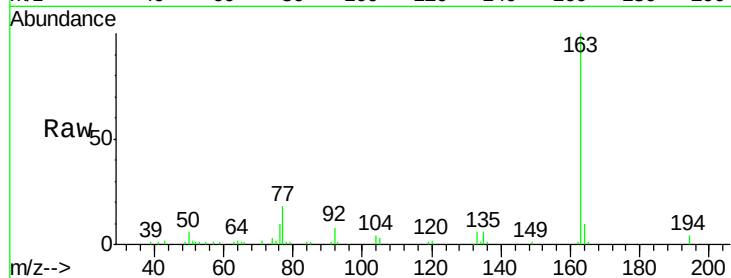
Tot Ion:163 Resp: 58080

Ion Ratio Lower Upper

163 100

194 3.7 2.7 4.1

164 10.1 8.2 12.2



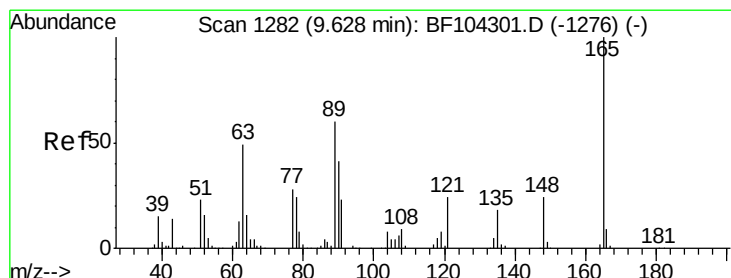
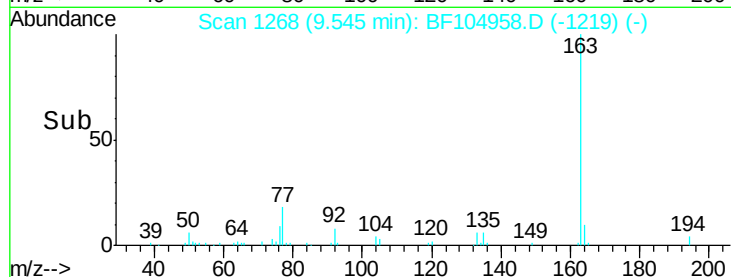
Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

9.55

Time-->



#50

2,6-Dinitrotoluene

Concen: 8.63 ng

RT: 9.83 min Scan# 1316

Delta R.T. 0.19 min

Lab File: BF104958.D

Acq: 1 May 2018 3:25

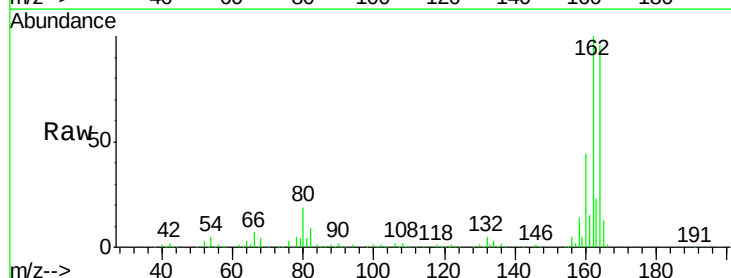
Tgt Ion:165 Resp: 26362

Ion Ratio Lower Upper

165 100

63 1.3 44.7 67.1#

89 1.2 44.0 66.0#



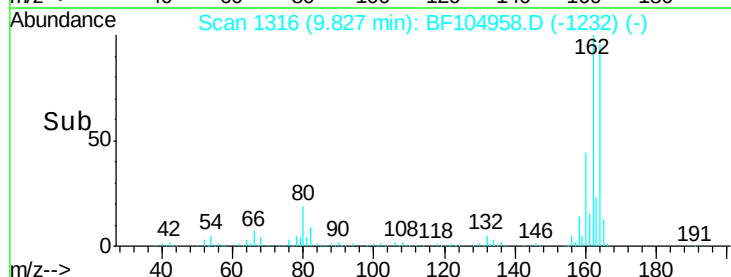
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

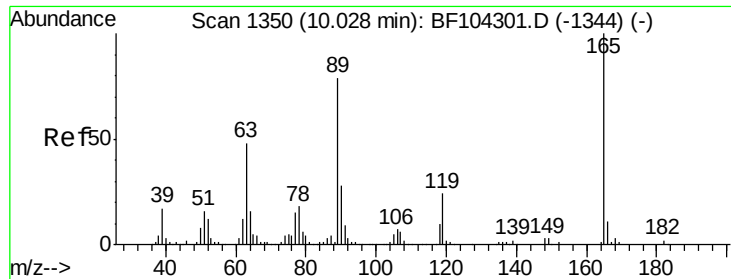
Ion 89.00 (88.70 to 89.70): BF1

9.83

Time-->



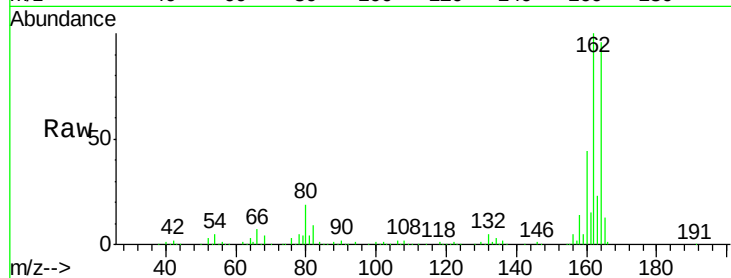




#56  
 2,4-Dinitrotoluene  
 Concen: 6.58 ng  
 RT: 9.83 min Scan# 1316  
 Delta R.T. -0.21 min  
 Lab File: BF104958.D  
 Acq: 1 May 2018 3:25

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.3   | 36.4  | 54.6# |
| 89      | 1.2   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |

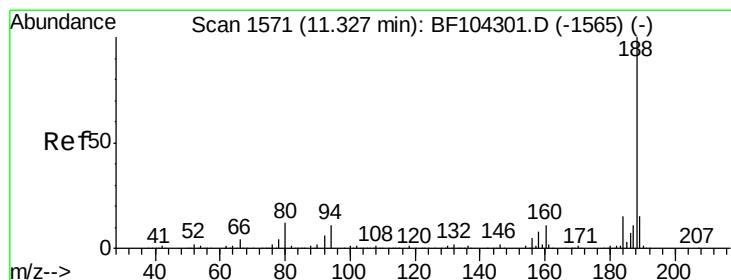
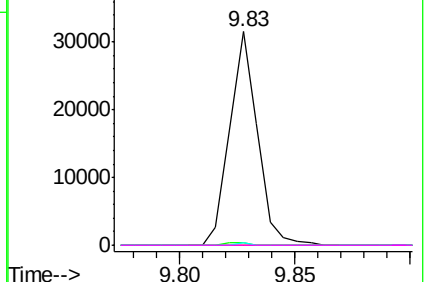
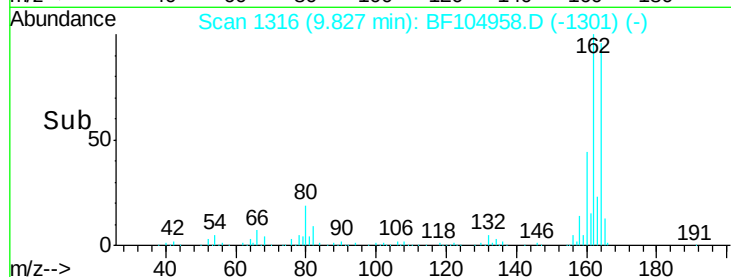


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

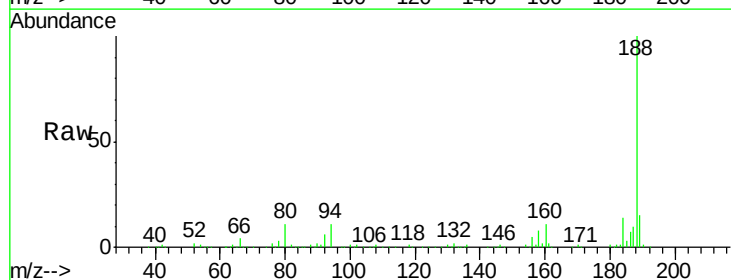
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.32 min Scan# 1569  
 Delta R.T. -0.01 min  
 Lab File: BF104958.D  
 Acq: 1 May 2018 3:25

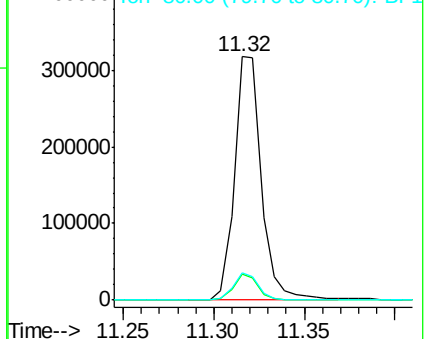
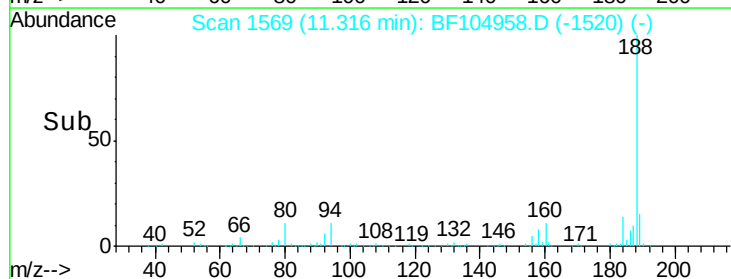
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.6  | 8.5   | 12.7  |
| 80      | 11.4  | 9.2   | 13.8  |

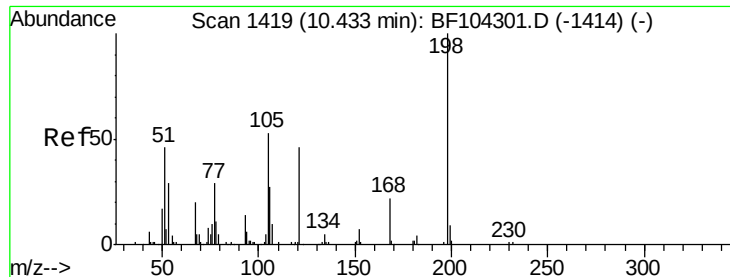


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

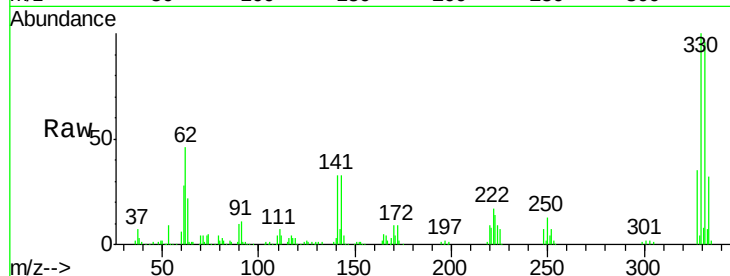




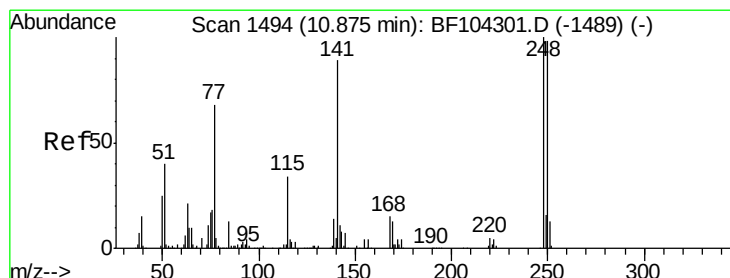
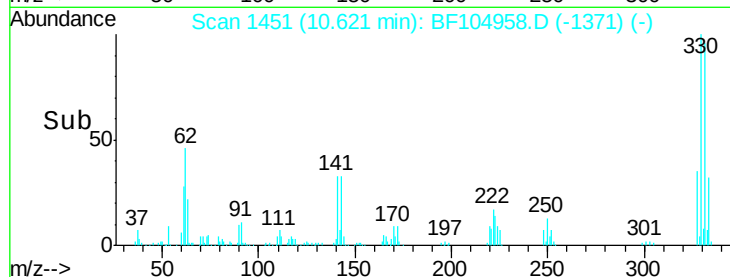
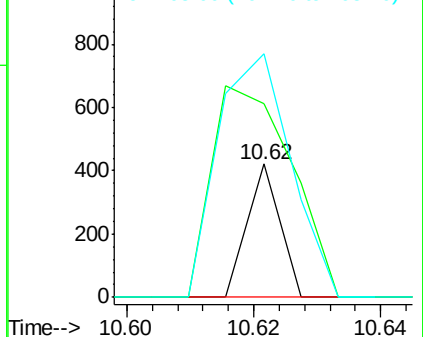
#64  
4,6-Dinitro-2-methylphenol  
Concen: 7.43 ng  
RT: 10.62 min Scan# 1451  
Delta R.T. 0.17 min  
Lab File: BF104958.D  
Acq: 1 May 2018 3:25

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:198 Resp: 148  
Ion Ratio Lower Upper  
198 100  
51 146.2 37.7 77.7#  
105 183.1 36.3 76.3#

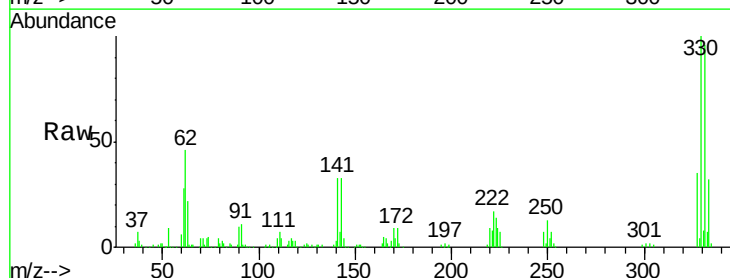


Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BF1  
Ion 105.00 (104.70 to 105.70): E

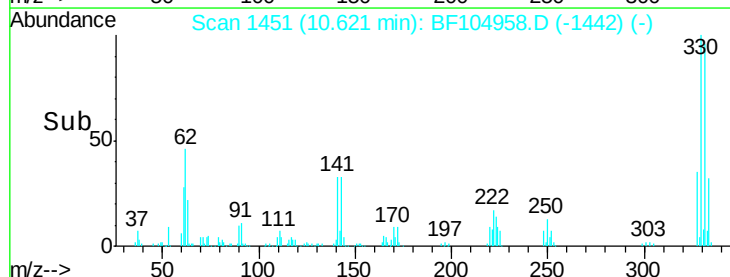
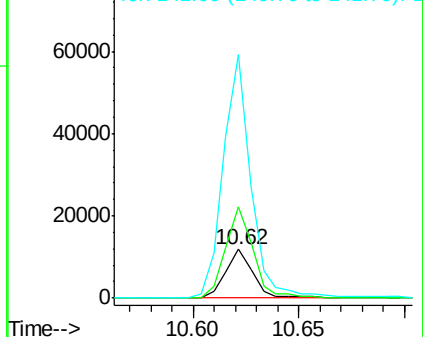


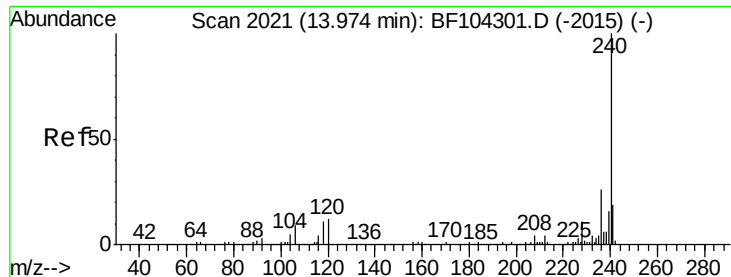
#66  
4-Bromophenyl-phenylether  
Concen: 3.05 ng  
RT: 10.62 min Scan# 1451  
Delta R.T. -0.25 min  
Lab File: BF104958.D  
Acq: 1 May 2018 3:25

Tgt Ion:248 Resp: 10622  
Ion Ratio Lower Upper  
248 100  
250 188.8 76.9 115.3#  
141 500.6 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: 13.96 min Scan# 2019

Delta R.T. -0.01 min

Lab File: BF104958.D

Acq: 1 May 2018 3:25

Instrument :

BNA\_F

ClientSampleId :

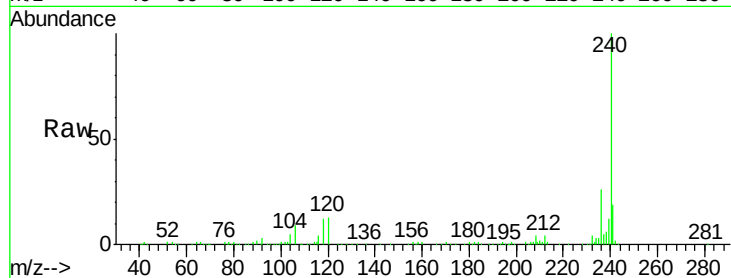
Tot Ion:240 Resp: 242580

Ion Ratio Lower Upper

240 100

120 12.9 9.5 14.3

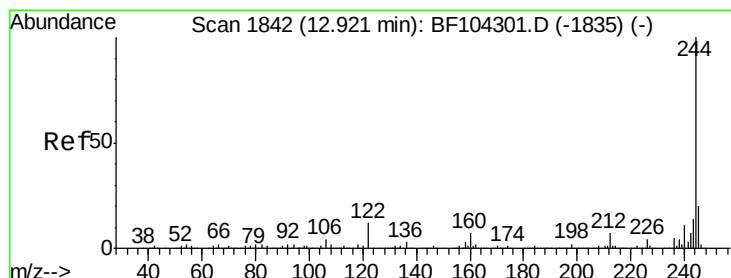
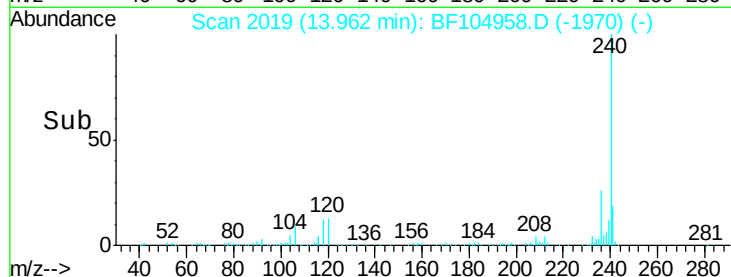
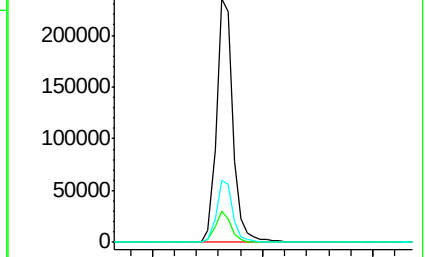
236 25.5 20.7 31.1



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: 85.63 ng

RT: 12.91 min Scan# 1840

Delta R.T. -0.01 min

Lab File: BF104958.D

Acq: 1 May 2018 3:25

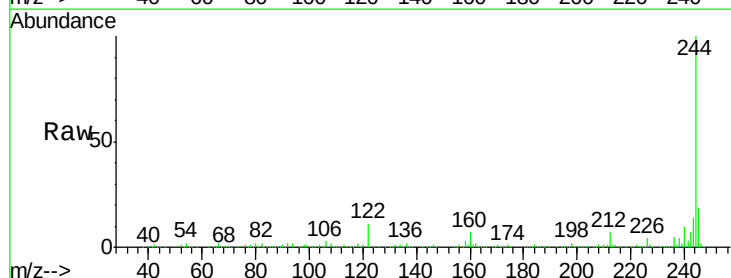
Tgt Ion:244 Resp: 911168

Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.0

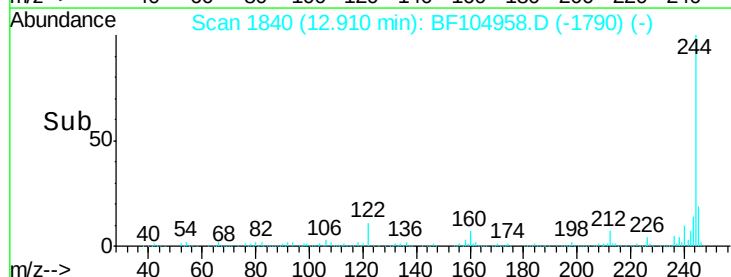
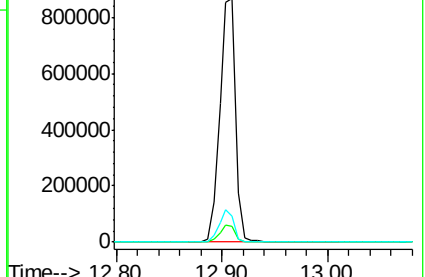
122 10.9 11.0 16.4#

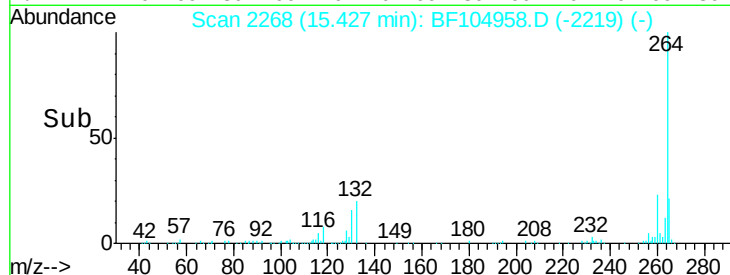
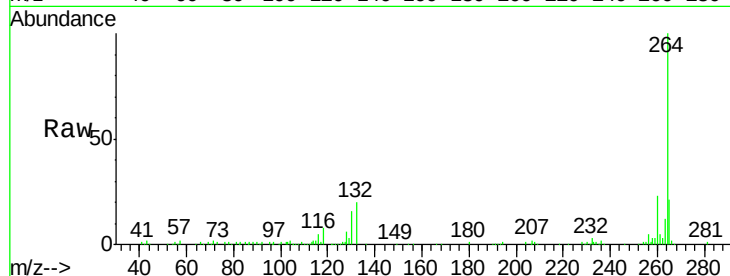
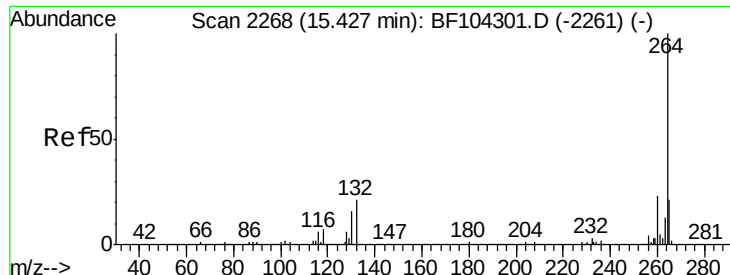


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.43 min Scan# 2268  
Delta R.T. -0.01 min  
Lab File: BF104958.D  
Acq: 1 May 2018 3:25

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.5  | 19.2  | 28.8  |
| 265     | 21.2  | 17.5  | 26.3  |

