

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082917\  
 Data File : BF098152.D  
 Acq On : 30 Aug 2017 11:42  
 Operator : SJ/JU  
 Sample : I4994-09  
 Misc :  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 30 12:17:44 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 21 15:59:04 2017  
 Response via : Initial Calibration

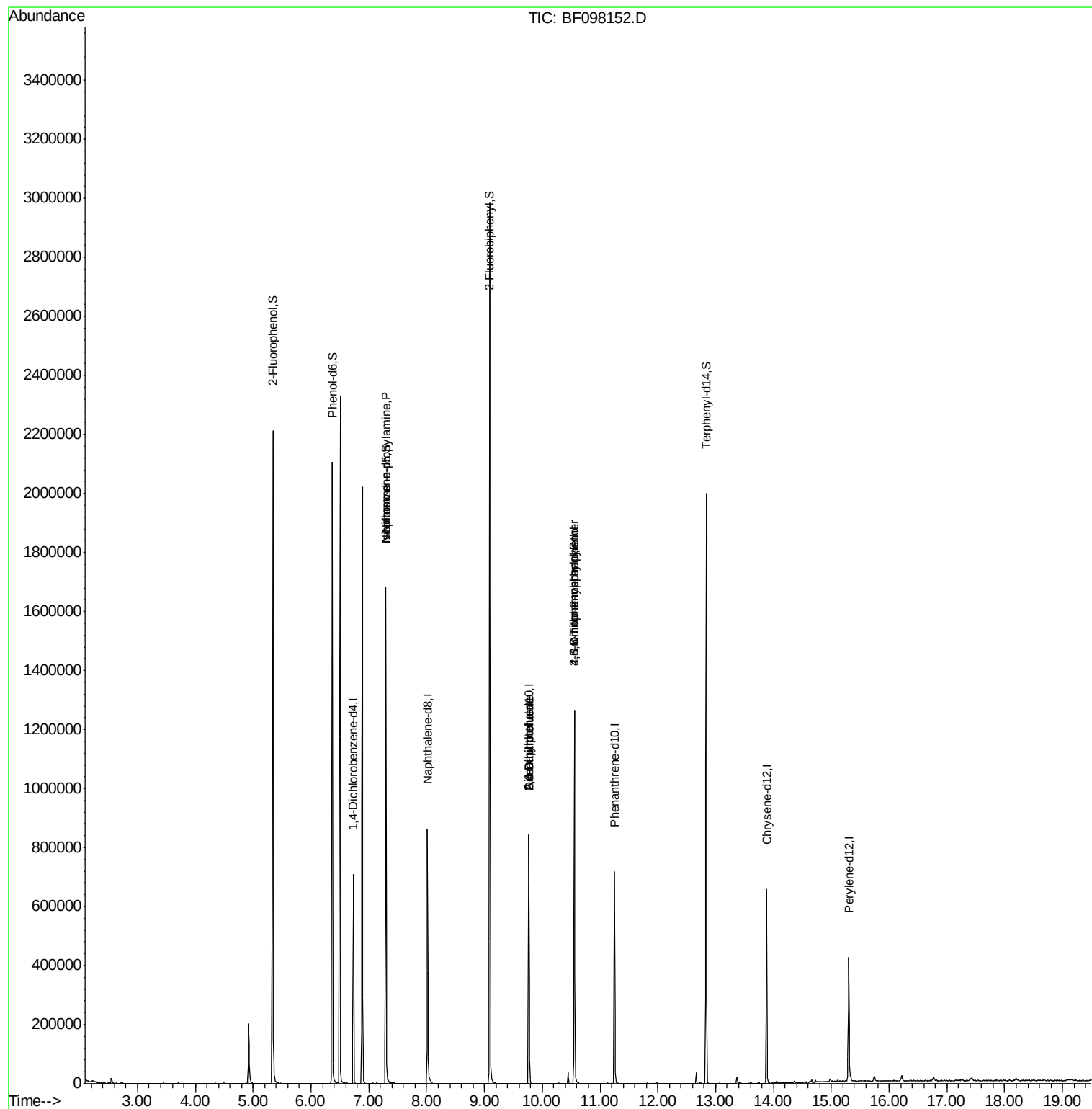
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.73  | 152  | 96823    | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 8.02  | 136  | 379431   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10           | 9.77  | 164  | 159646   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 11.25 | 188  | 261959   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 13.88 | 240  | 210887   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12               | 15.30 | 264  | 186428   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.34  | 112  | 621001   | 97.56  | ng    | -0.01    |
| 7) Phenol-d6                   | 6.37  | 99   | 760263   | 87.90  | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.30  | 82   | 580195   | 83.07  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.56 | 330  | 150437   | 108.60 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 9.09  | 172  | 884070   | 81.36  | ng    | -0.02    |
| 78) Terphenyl-d14              | 12.83 | 244  | 614064   | 60.72  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.30  | 70   | 76442    | 12.911 | ng    | # 71     |
| 25) Isophorone                 | 7.30  | 82   | 570063   | 39.252 | ng    | # 67     |
| 49) Dimethylphthalate          | 9.77  | 163  | 43120    | 3.695  | ng    | # 1      |
| 50) 2,6-Dinitrotoluene         | 9.77  | 165  | 20270    | 8.702  | ng    | # 33     |
| 56) 2,4-Dinitrotoluene         | 9.77  | 165  | 20270    | 6.934  | ng    | # 33     |
| 64) 4,6-Dinitro-2-methylphenol | 10.56 | 198  | 267      | 8.500  | ng    | # 16     |
| 66) 4-Bromophenyl-phenylether  | 10.56 | 248  | 10042    | 3.692  | ng    | # 1      |

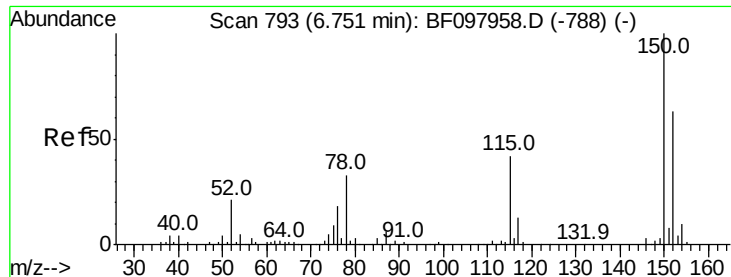
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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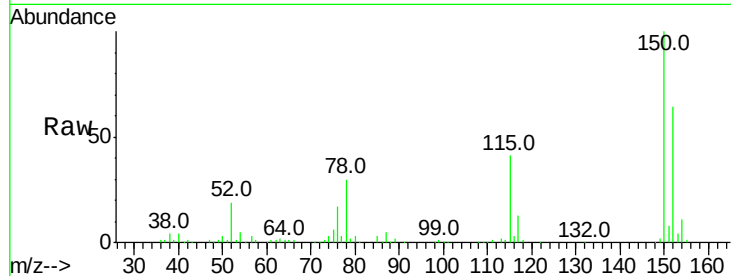


#1

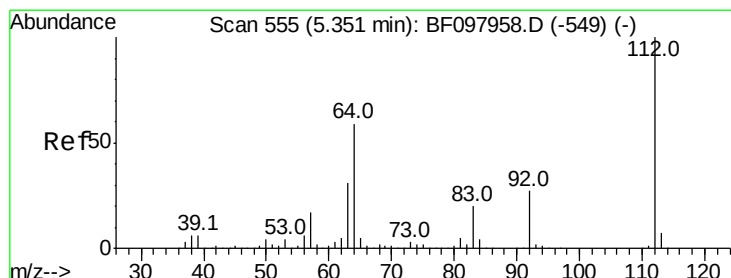
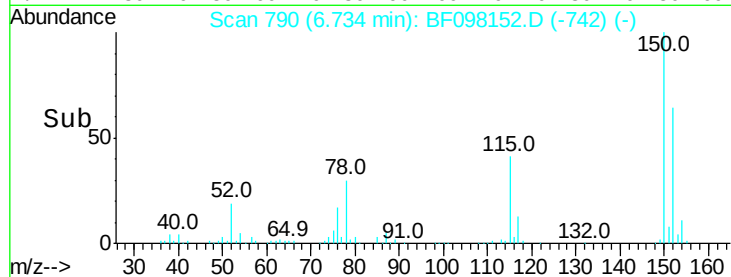
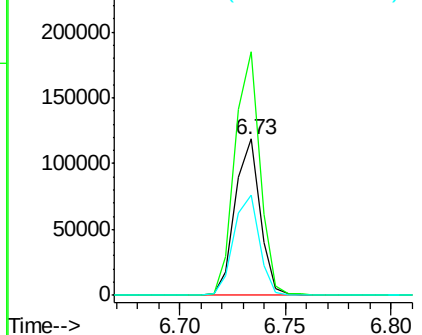
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.73 min Scan# 790  
 Delta R.T. -0.02 min  
 Lab File: BF098152.D  
 Acq: 30 Aug 2017 11:42

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:152 Resp: 96823  
 Ion Ratio Lower Upper  
 152 100  
 150 156.0 126.2 189.2  
 115 64.4 52.2 78.2



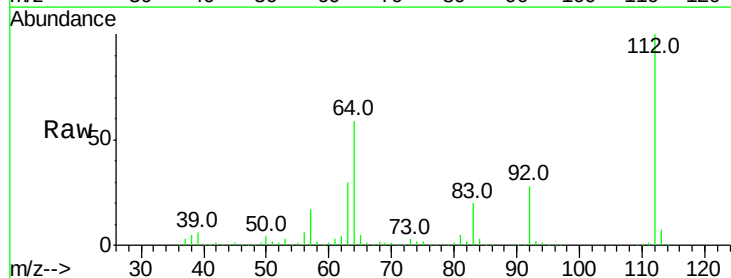
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



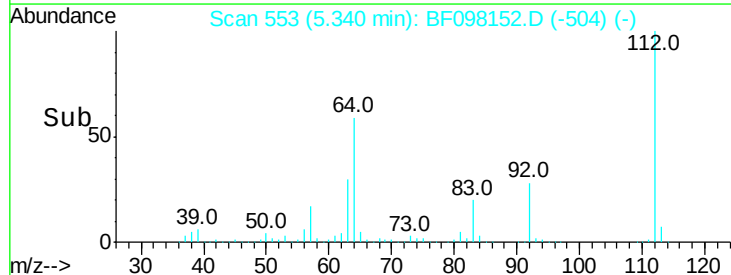
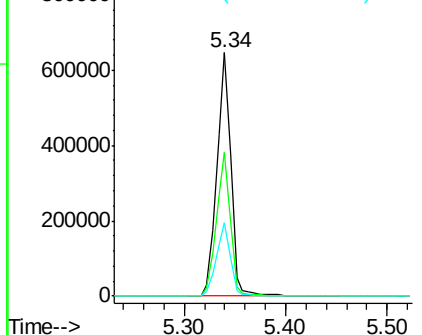
#5

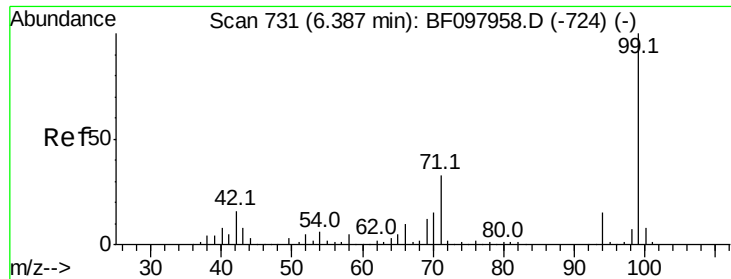
2-Fluorophenol  
 Concen: 97.558 ng  
 RT: 5.34 min Scan# 553  
 Delta R.T. -0.01 min  
 Lab File: BF098152.D  
 Acq: 30 Aug 2017 11:42

Tgt Ion:112 Resp: 621001  
 Ion Ratio Lower Upper  
 112 100  
 64 58.9 46.0 69.0  
 63 29.9 23.4 35.0



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: 87.904 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.02 min

Lab File: BF098152.D

Acq: 30 Aug 2017 11:42

Instrument :

BNA\_F

ClientSampled :

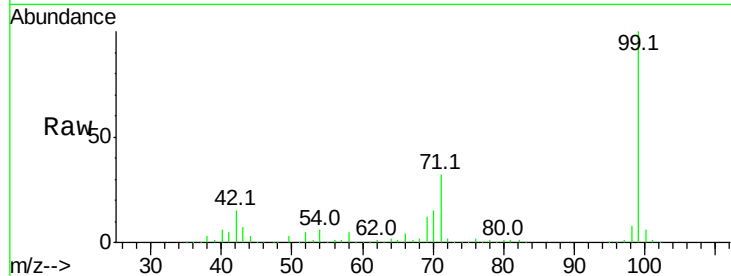
Tot Ion: 99 Resp: 760263

Ion Ratio Lower Upper

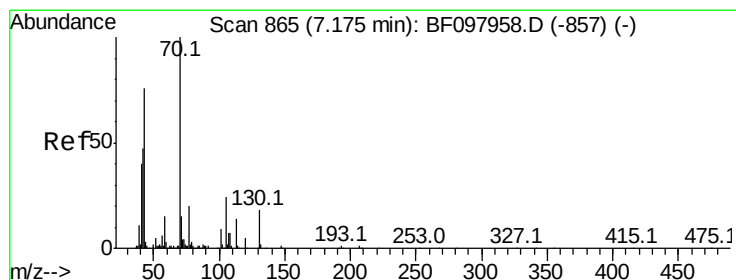
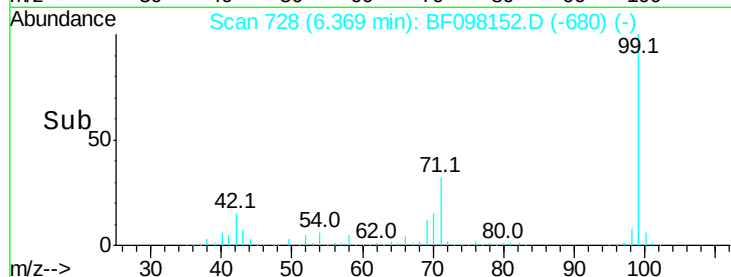
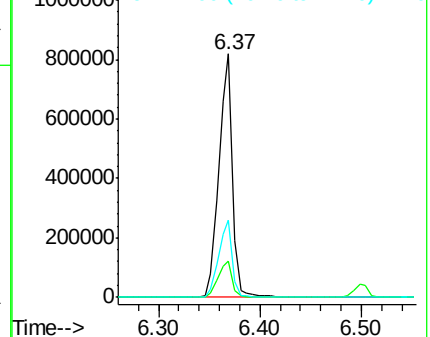
99 100

42 14.8 13.5 20.3

71 31.7 24.5 36.7



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



#19

n-Nitroso-di-n-propylamine

Concen: 12.911 ng

RT: 7.30 min Scan# 886

Delta R.T. 0.12 min

Lab File: BF098152.D

Acq: 30 Aug 2017 11:42

Tgt Ion: 70 Resp: 76442

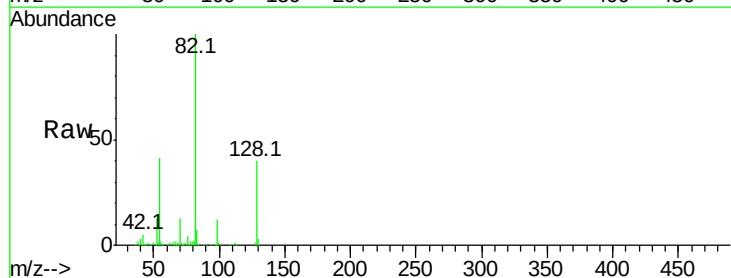
Ion Ratio Lower Upper

70 100

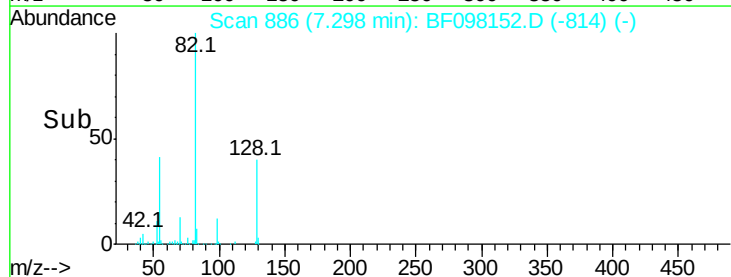
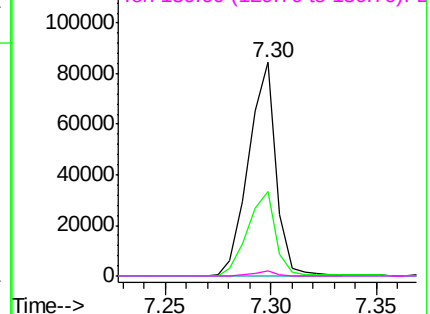
42 39.6 47.2 70.8#

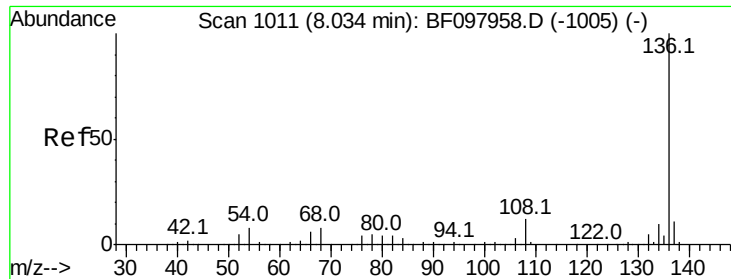
101 0.0 7.2 10.8#

130 2.3 15.9 23.9#



Abundance Ion 70.00 (69.70 to 70.70): BF0  
Ion 42.00 (41.70 to 42.70): BF0  
Ion 101.00 (100.70 to 101.70): BF0  
Ion 130.00 (129.70 to 130.70): BF0

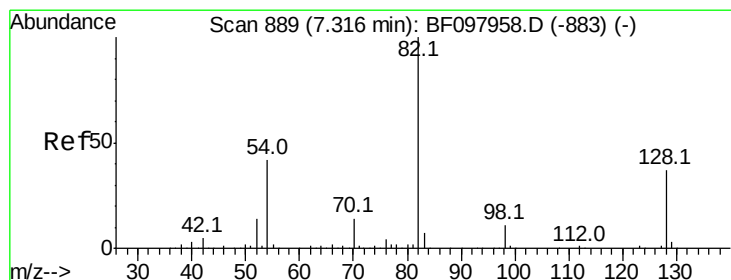
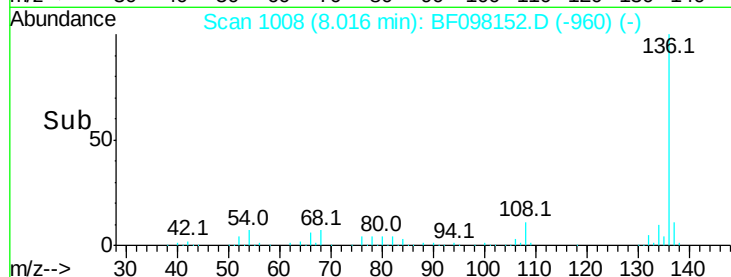
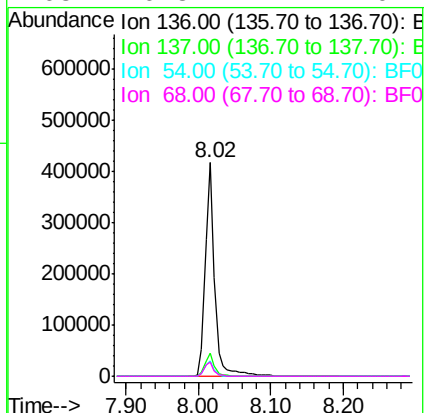
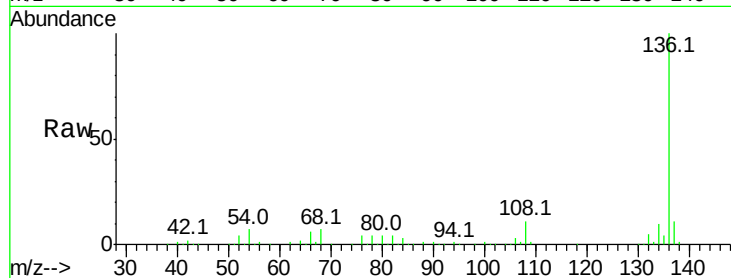




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.02 min Scan# 1008  
Delta R.T. -0.02 min  
Lab File: BF098152.D  
Acq: 30 Aug 2017 11:42

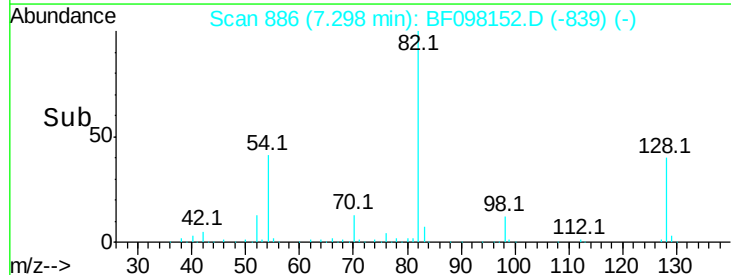
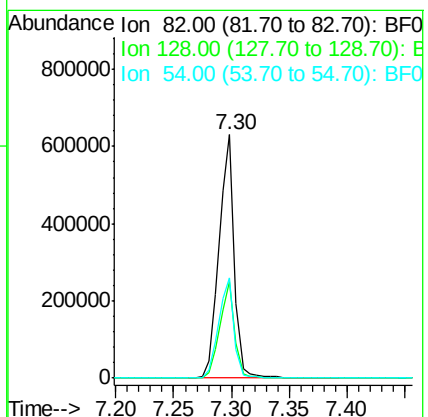
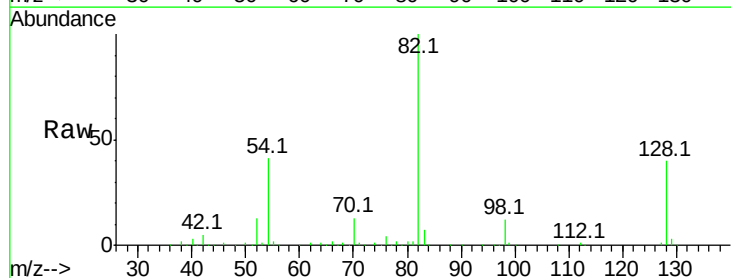
Instrument :  
BNA\_F  
ClientSampleId :

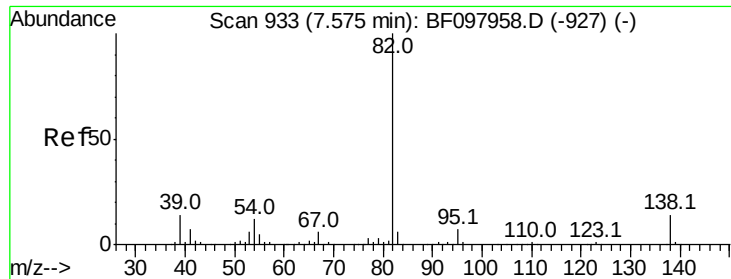
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 379431 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.1  | 8.5   | 12.7   |
| 54       | 7.4   | 4.9   | 7.3#   |
| 68       | 6.8   | 4.1   | 6.1#   |



#23  
Nitrobenzene-d5  
Concen: 83.069 ng  
RT: 7.30 min Scan# 886  
Delta R.T. -0.02 min  
Lab File: BF098152.D  
Acq: 30 Aug 2017 11:42

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 580195 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 39.6  | 34.0  | 51.0   |
| 54       | 41.1  | 42.2  | 63.2#  |





#25

Isophorone

Concen: 39.252 ng

RT: 7.30 min Scan# 886

Delta R.T. -0.28 min

Lab File: BF098152.D

Acq: 30 Aug 2017 11:42

Instrument :

BNA\_F

ClientSampleId :

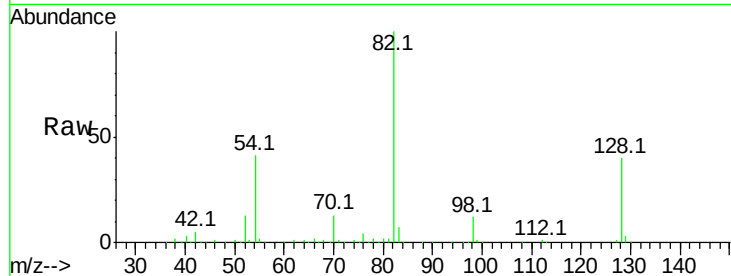
Tot Ion: 82 Resp: 570063

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

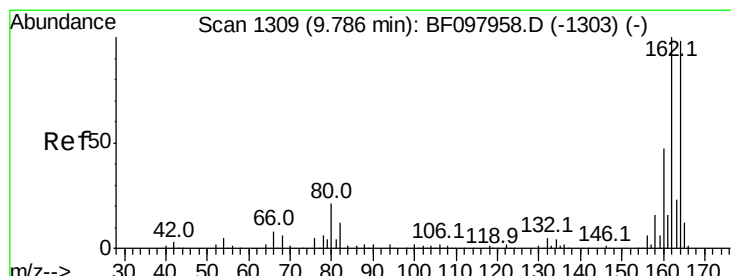
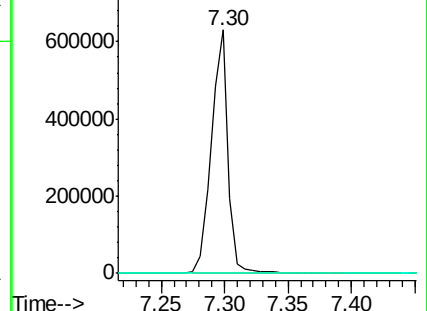
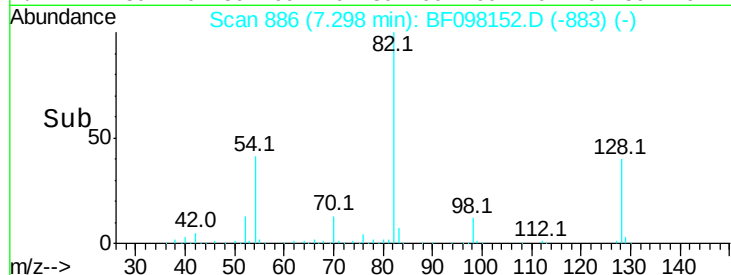
138 0.0 13.1 19.7#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.77 min Scan# 1306

Delta R.T. -0.02 min

Lab File: BF098152.D

Acq: 30 Aug 2017 11:42

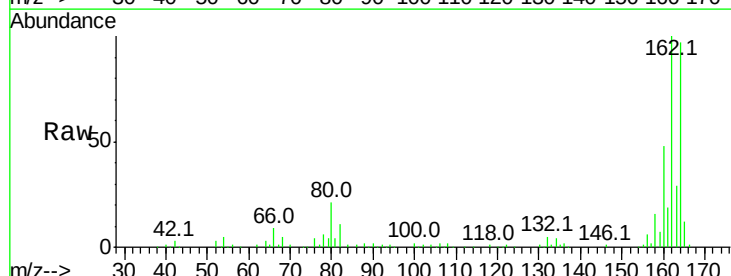
Tgt Ion:164 Resp: 159646

Ion Ratio Lower Upper

164 100

162 103.4 82.6 123.8

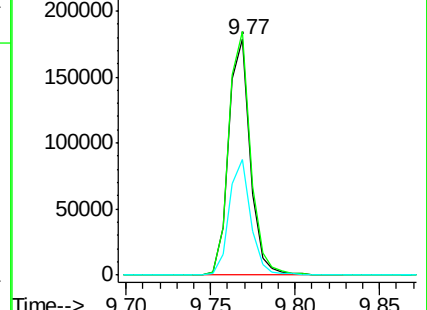
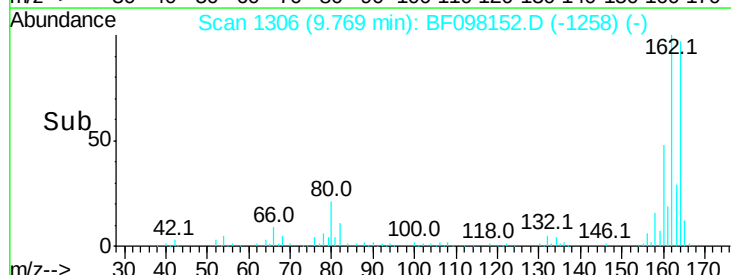
160 49.2 36.2 54.2

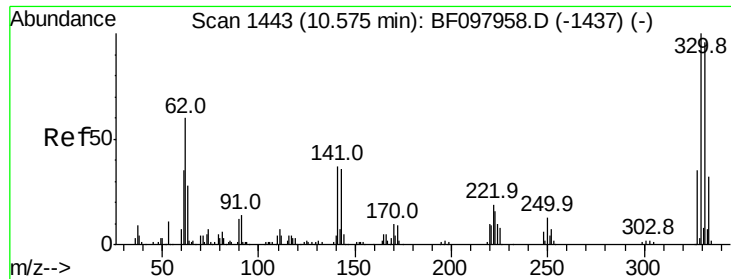


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

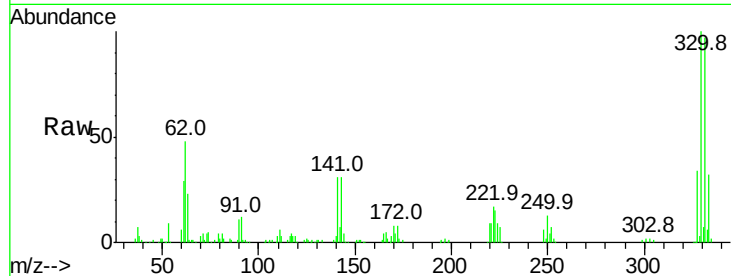




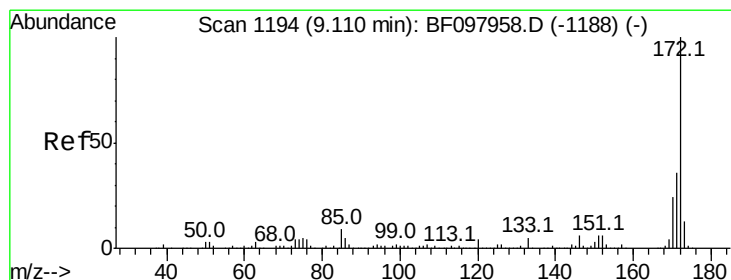
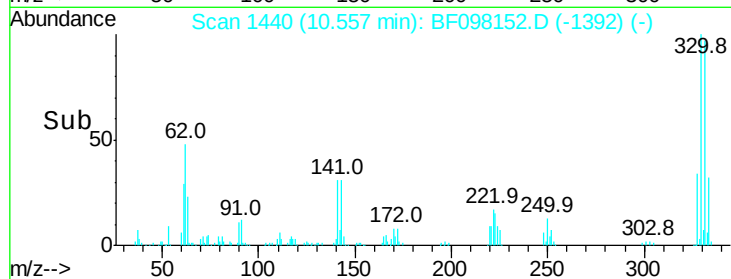
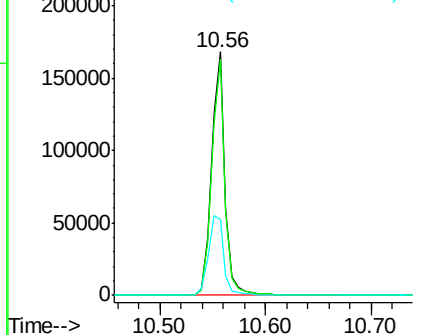
#41  
 2,4,6-Tribromophenol  
 Concen: 108.604 ng  
 RT: 10.56 min Scan# 1440  
 Delta R.T. -0.02 min  
 Lab File: BF098152.D  
 Acq: 30 Aug 2017 11:42

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.0  | 76.6  | 115.0 |
| 141     | 37.6  | 31.4  | 47.2  |

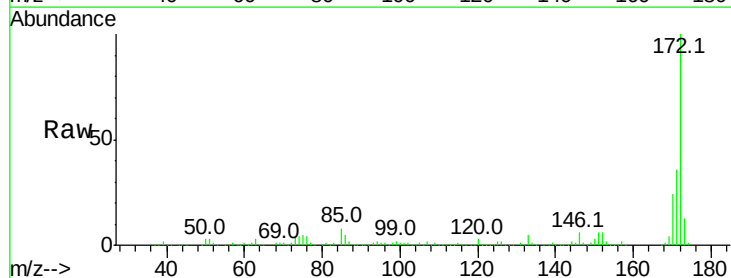


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

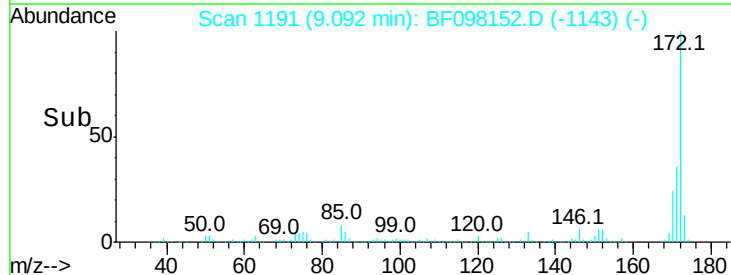
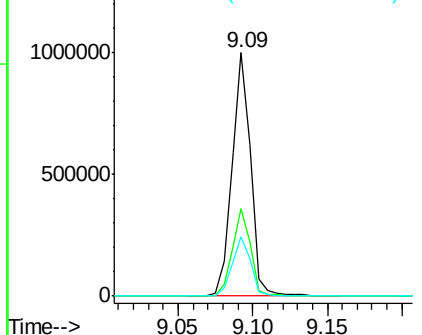


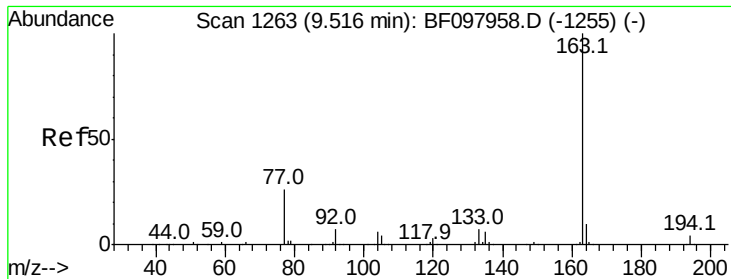
#44  
 2-Fluorobiphenyl  
 Concen: 81.360 ng  
 RT: 9.09 min Scan# 1191  
 Delta R.T. -0.02 min  
 Lab File: BF098152.D  
 Acq: 30 Aug 2017 11:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.9  | 29.6  | 44.4  |
| 170     | 24.3  | 19.8  | 29.8  |



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

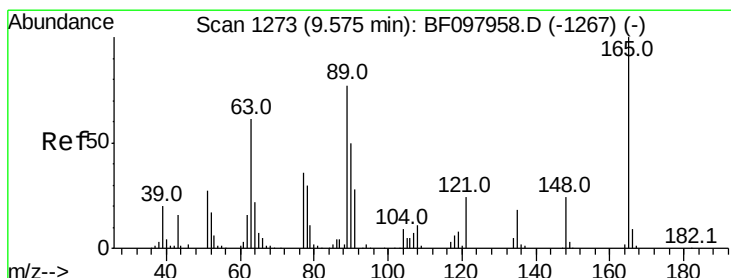
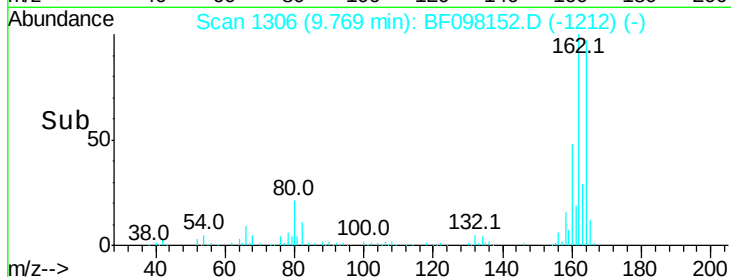
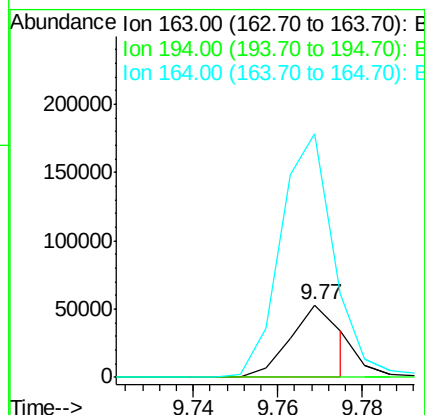
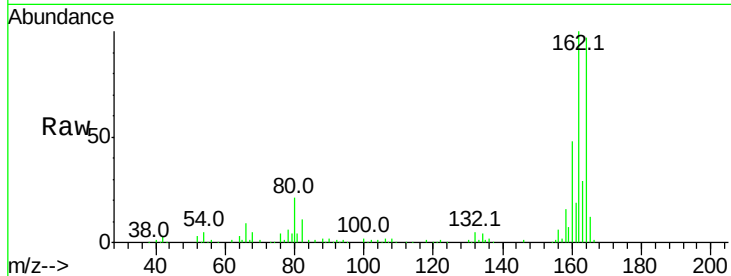




#49  
 Dimethylphthalate  
 Concen: 3.695 ng  
 RT: 9.77 min Scan# 1306  
 Delta R.T. 0.25 min  
 Lab File: BF098152.D  
 Acq: 30 Aug 2017 11:42

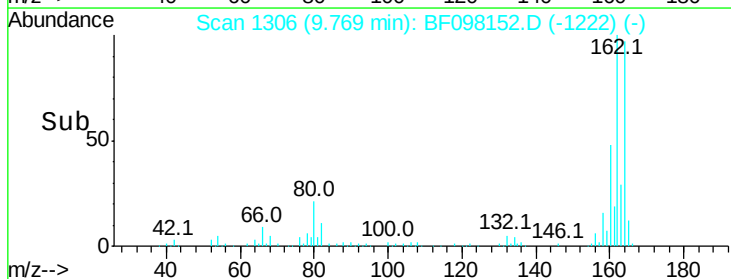
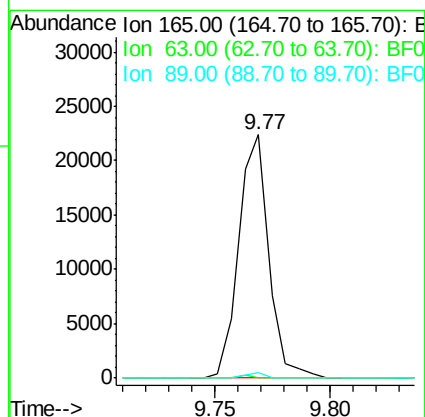
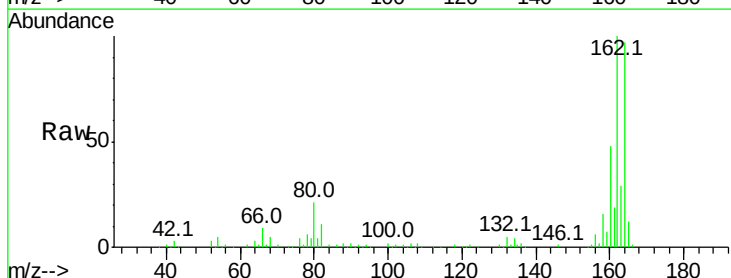
Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:163 Resp: 43120  
 Ion Ratio Lower Upper  
 163 100  
 194 0.0 2.6 4.0#  
 164 336.7 8.4 12.6#

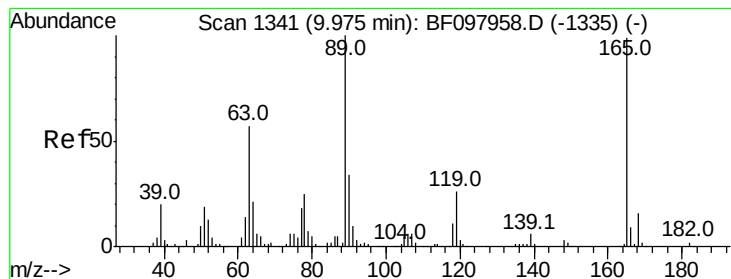


#50  
 2,6-Dinitrotoluene  
 Concen: 8.702 ng  
 RT: 9.77 min Scan# 1306  
 Delta R.T. 0.19 min  
 Lab File: BF098152.D  
 Acq: 30 Aug 2017 11:42

Tgt Ion:165 Resp: 20270  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 34.3 51.5#  
 89 2.3 37.1 55.7#







#56

2,4-Dinitrotoluene

Concen: 6.934 ng

RT: 9.77 min Scan# 1306

Delta R.T. -0.21 min

Lab File: BF098152.D

Acq: 30 Aug 2017 11:42

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:165 Resp: 20270

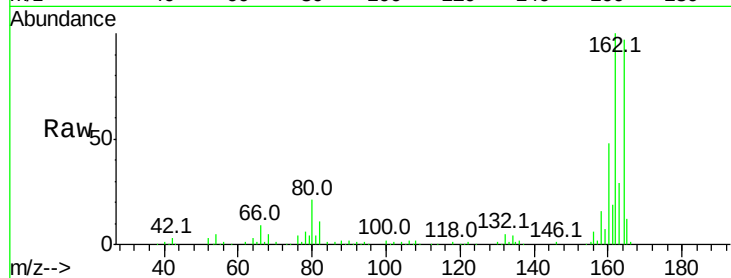
Ion Ratio Lower Upper

165 100

63 0.0 25.4 38.0#

89 2.3 46.4 69.6#

182 0.0 1.8 2.6#

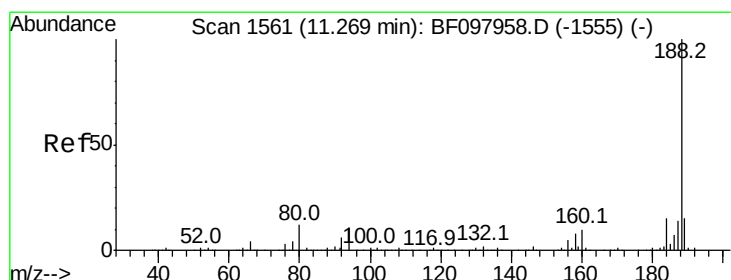
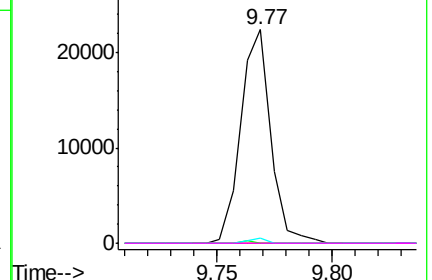
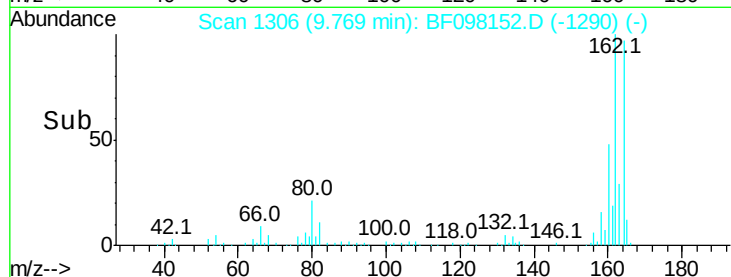


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.25 min Scan# 1558

Delta R.T. -0.01 min

Lab File: BF098152.D

Acq: 30 Aug 2017 11:42

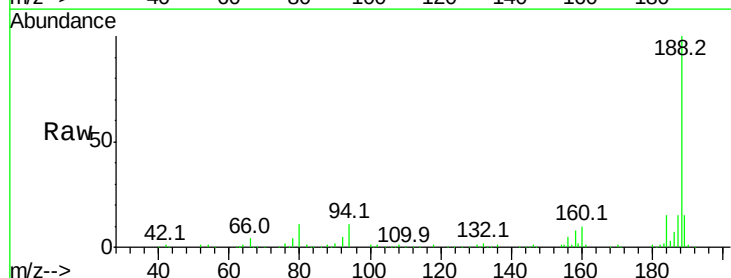
Tgt Ion:188 Resp: 261959

Ion Ratio Lower Upper

188 100

94 10.5 9.4 14.2

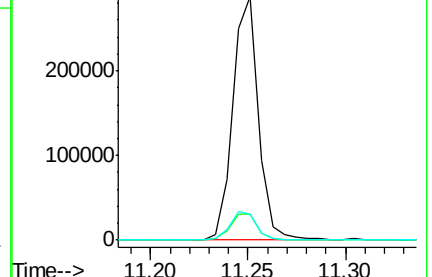
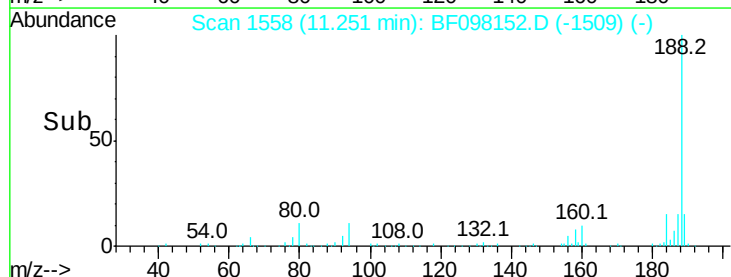
80 10.6 10.2 15.2

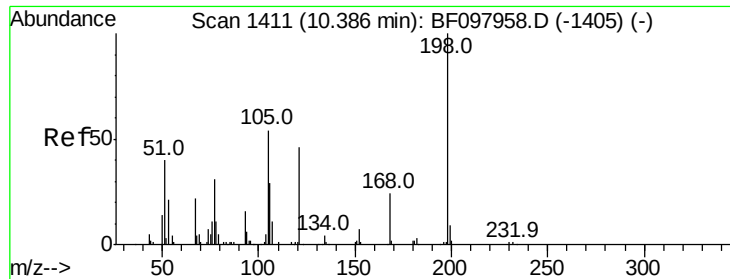


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#64

4,6-Dinitro-2-methylphenol

Concen: 8.500 ng

RT: 10.56 min Scan# 1440

Delta R.T. 0.18 min

Lab File: BF098152.D

Acq: 30 Aug 2017 11:42

Instrument :

BNA\_F

ClientSampleId :

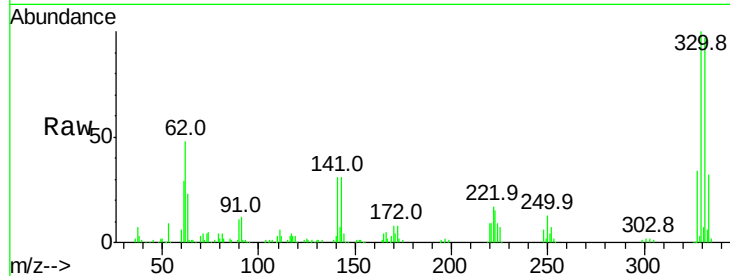
Tot Ion:198 Resp: 267

Ion Ratio Lower Upper

198 100

51 129.7 53.2 93.2#

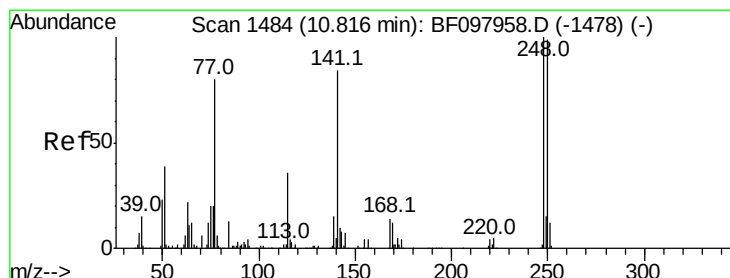
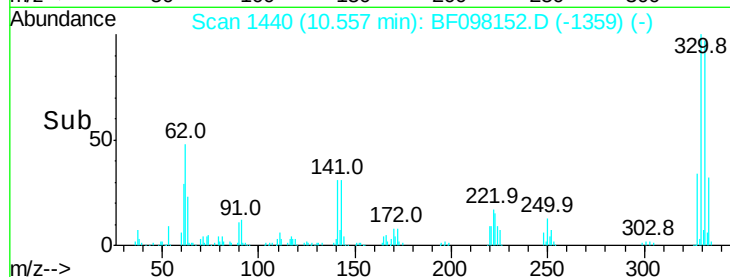
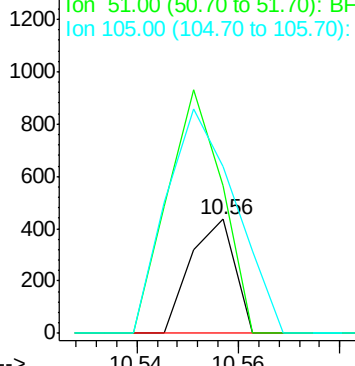
105 146.9 45.8 85.8#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E



#66

4-Bromophenyl-phenylether

Concen: 3.692 ng

RT: 10.56 min Scan# 1440

Delta R.T. -0.26 min

Lab File: BF098152.D

Acq: 30 Aug 2017 11:42

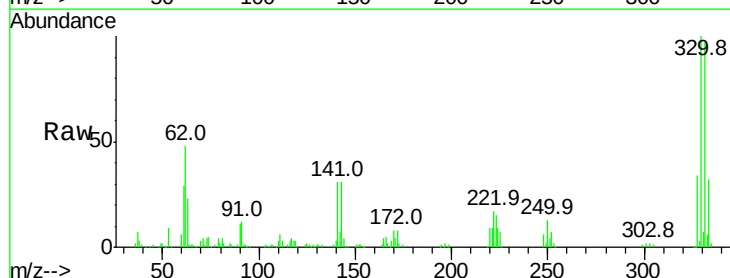
Tgt Ion:248 Resp: 10042

Ion Ratio Lower Upper

248 100

250 206.2 76.8 115.2#

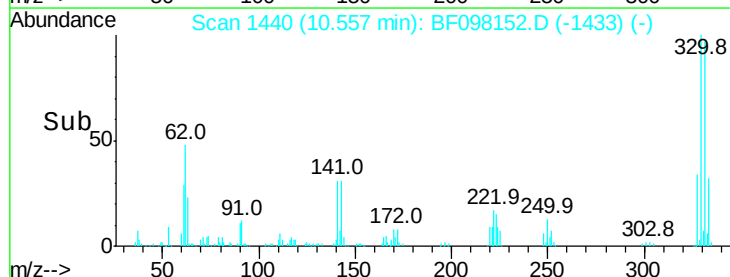
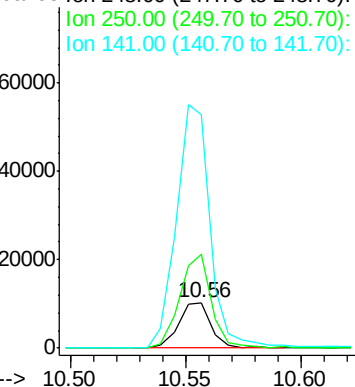
141 514.5 68.6 103.0#

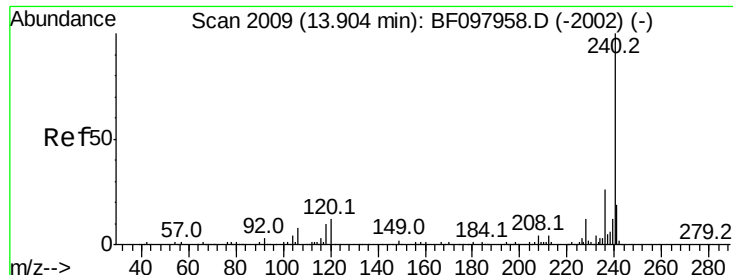


Abundance Ion 248.00 (247.70 to 248.70): E

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: 13.88 min Scan# 2005

Delta R.T. -0.02 min

Lab File: BF098152.D

Acq: 30 Aug 2017 11:42

Instrument :

BNA\_F

ClientSampleId :

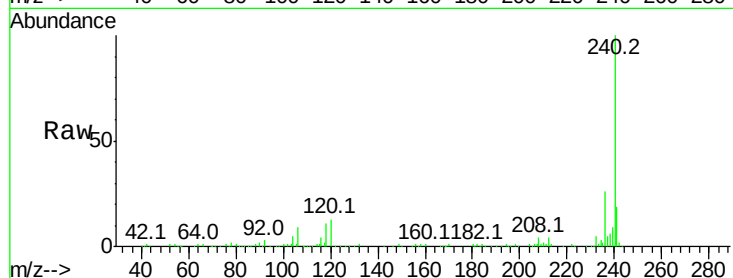
Tot Ion:240 Resp: 210887

Ion Ratio Lower Upper

240 100

120 13.1 5.8 8.8#

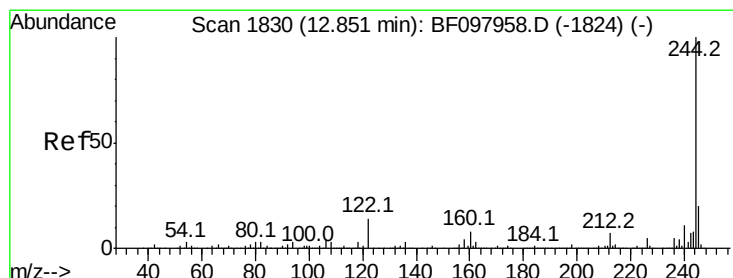
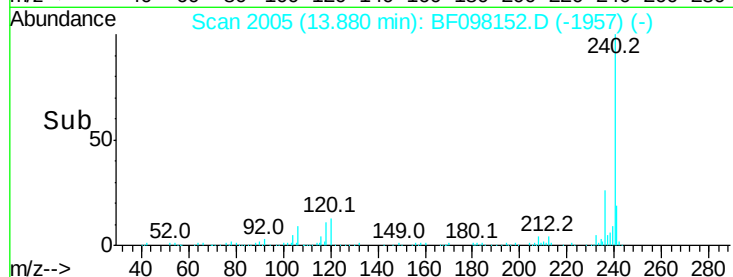
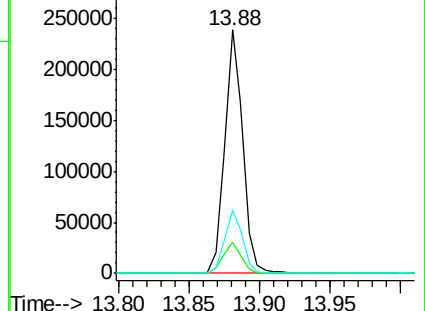
236 25.7 20.5 30.7



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: 60.721 ng

RT: 12.83 min Scan# 1827

Delta R.T. -0.02 min

Lab File: BF098152.D

Acq: 30 Aug 2017 11:42

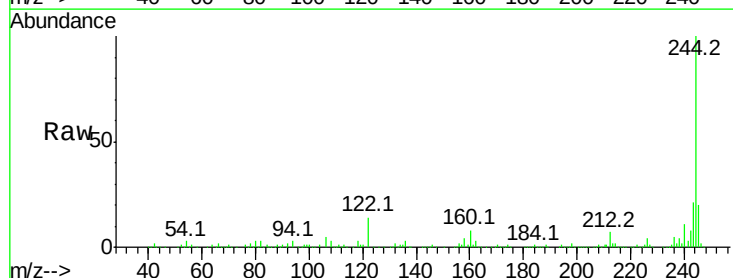
Tgt Ion:244 Resp: 614064

Ion Ratio Lower Upper

244 100

212 7.4 6.0 9.0

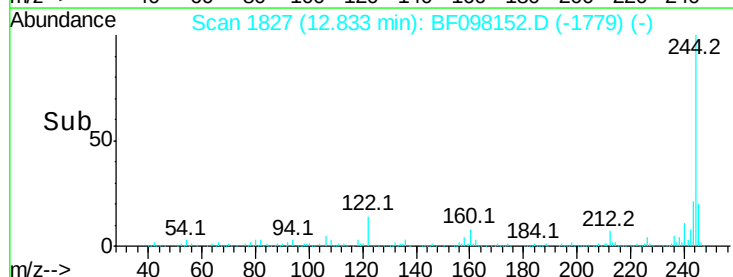
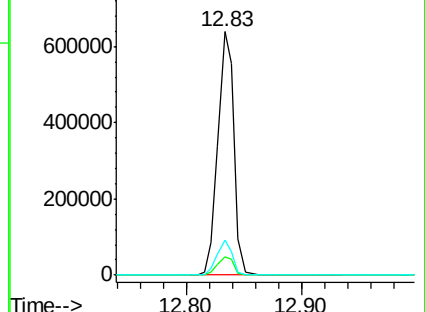
122 14.5 10.3 15.5

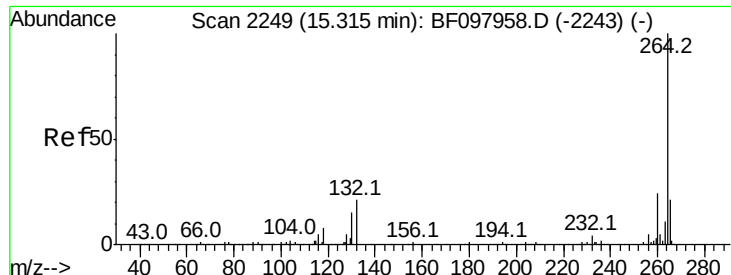


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

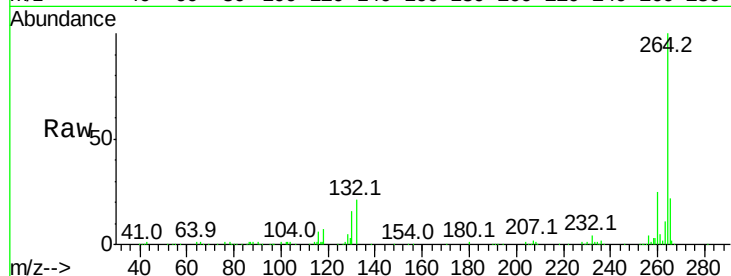




#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.30 min Scan# 2246  
 Delta R.T. -0.01 min  
 Lab File: BF098152.D  
 Acq: 30 Aug 2017 11:42

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.6  | 19.5  | 29.3  |
| 265     | 22.1  | 17.2  | 25.8  |



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

