

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082517\  
 Data File : BF098056.D  
 Acq On : 26 Aug 2017 3:18  
 Operator : SJ/JU  
 Sample : I4964-01 5X  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OK-03-82417

Quant Time: Aug 26 03:43:05 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

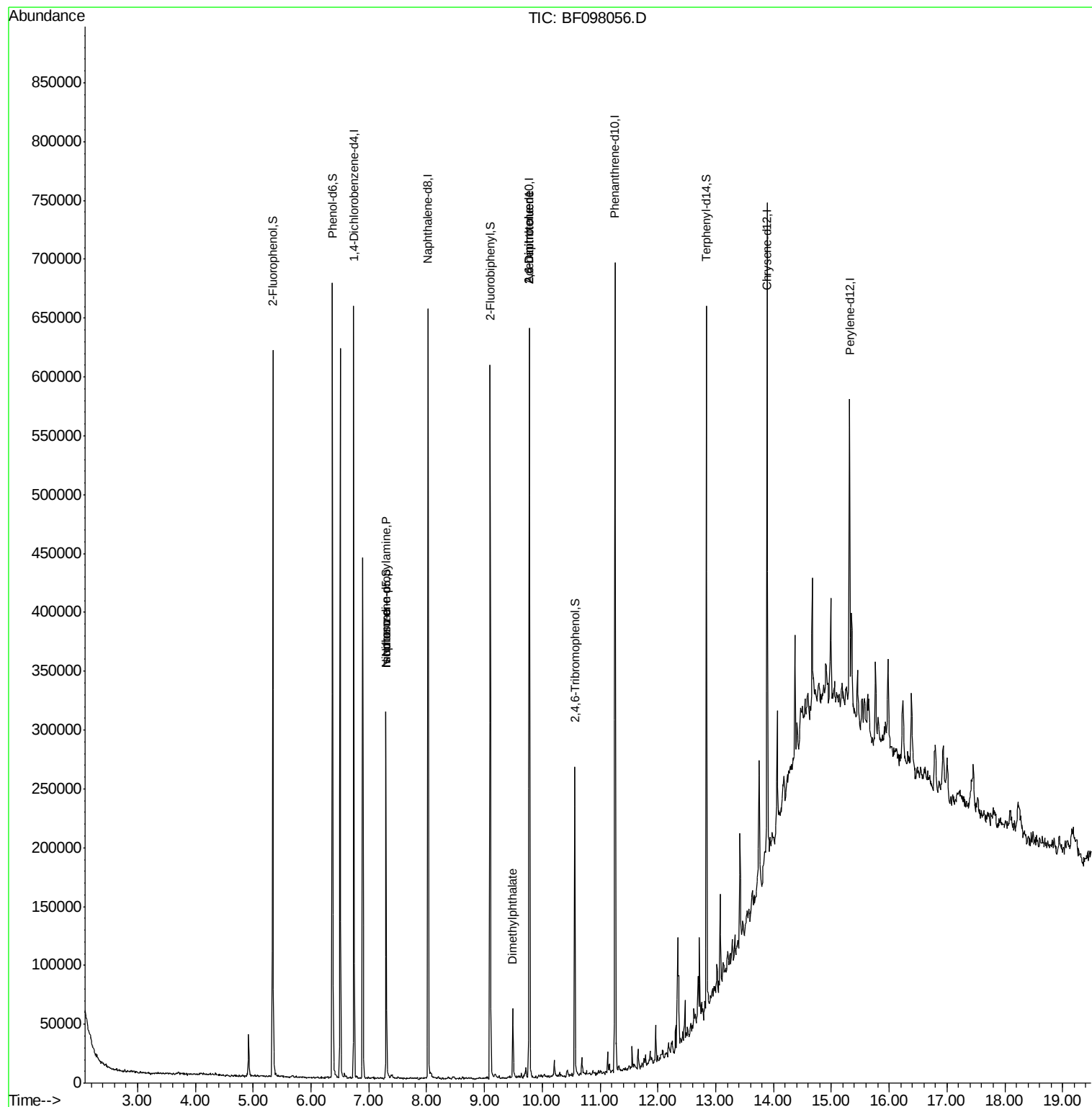
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.74  | 152  | 87048    | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8             | 8.03  | 136  | 303801   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.77  | 164  | 114048   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.26 | 188  | 221781   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12               | 13.89 | 240  | 184328   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12               | 15.32 | 264  | 127208   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.34  | 112  | 164848   | 28.81 | ng    | -0.01    |
| 7) Phenol-d6                   | 6.37  | 99   | 214448   | 27.58 | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.30  | 82   | 103149   | 18.44 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.56 | 330  | 25751    | 26.02 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.10  | 172  | 168354   | 21.69 | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.84 | 244  | 153178   | 17.33 | ng    | -0.01    |
| Target Compounds               |       |      |          |       |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.30  | 70   | 13119    | 2.46  | ng    | # 75     |
| 25) Isophorone                 | 7.30  | 82   | 99126    | 8.52  | ng    | # 67     |
| 49) Dimethylphthalate          | 9.49  | 163  | 22260    | 2.67  | ng    | # 99     |
| 50) 2,6-Dinitrotoluene         | 9.77  | 165  | 14942    | 8.98  | ng    | # 33     |
| 56) 2,4-Dinitrotoluene         | 9.77  | 165  | 14942    | 7.15  | ng    | # 32     |

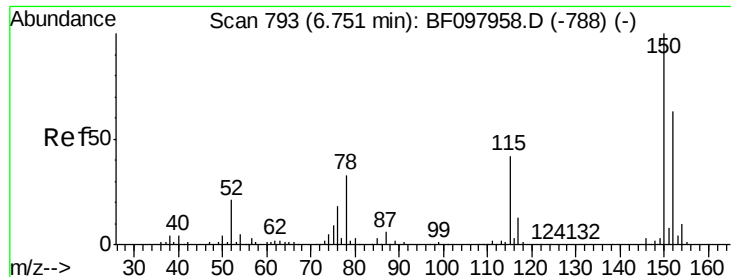
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Aug 21 15:59:04 2017  
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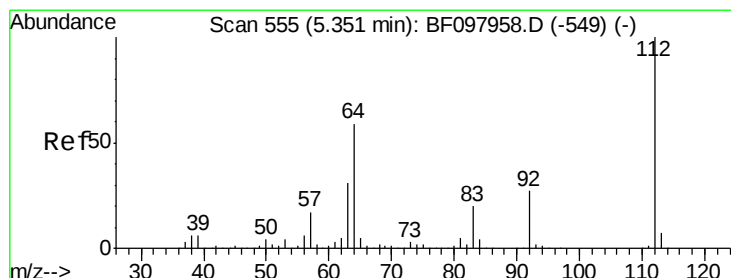
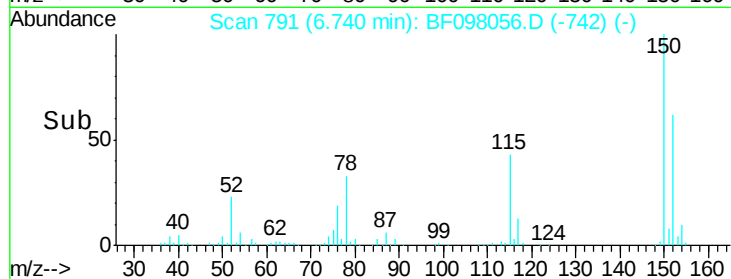
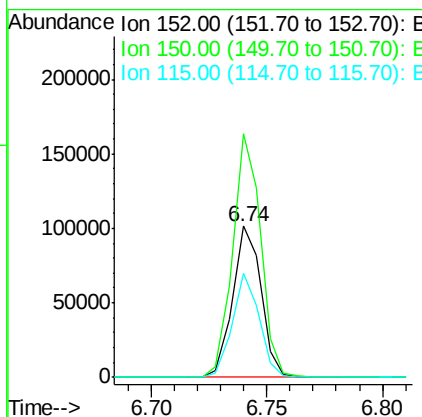
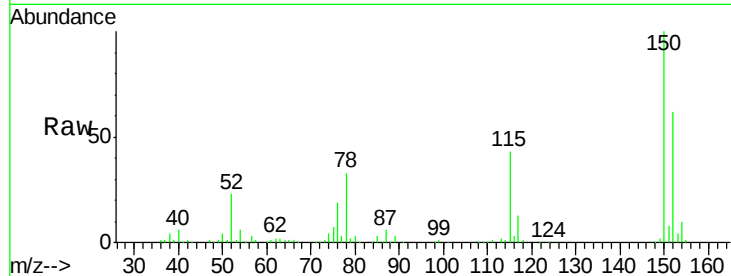


#1

1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.74 min Scan# 791  
 Delta R.T. -0.01 min  
 Lab File: BF098056.D  
 Acq: 26 Aug 2017 3:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OK-03-82417

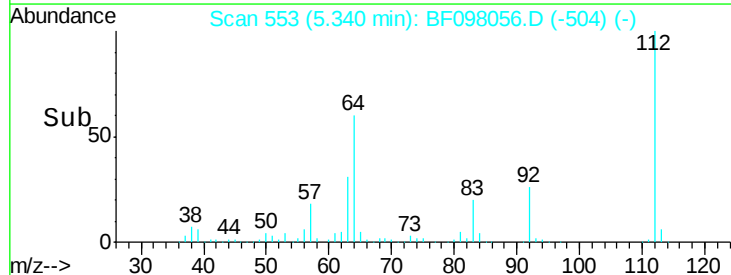
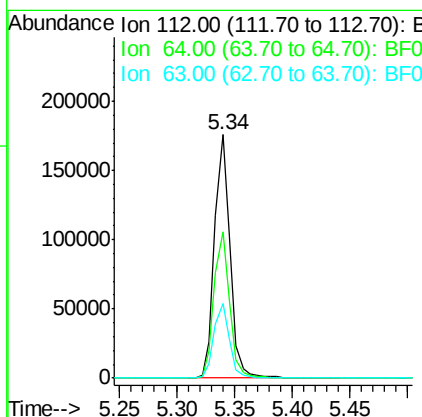
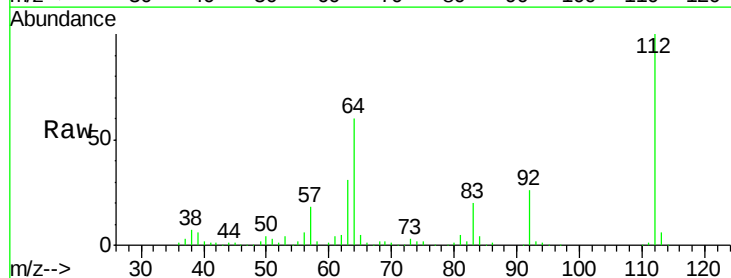
Tot Ion:152 Resp: 87048  
 Ion Ratio Lower Upper  
 152 100  
 150 161.4 126.2 189.2  
 115 69.4 52.2 78.2

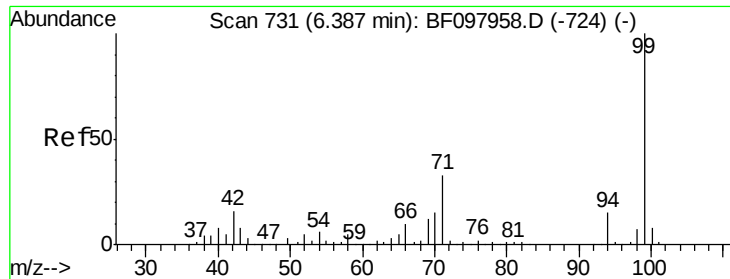


#5

2-Fluorophenol  
 Concen: 28.81 ng  
 RT: 5.34 min Scan# 553  
 Delta R.T. -0.01 min  
 Lab File: BF098056.D  
 Acq: 26 Aug 2017 3:18

Tgt Ion:112 Resp: 164848  
 Ion Ratio Lower Upper  
 112 100  
 64 60.2 46.0 69.0  
 63 30.7 23.4 35.0





#7

Phenol-d6

Concen: 27.58 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.02 min

Lab File: BF098056.D

Acq: 26 Aug 2017 3:18

Instrument :

BNA\_F

ClientSampleId :

OK-03-82417

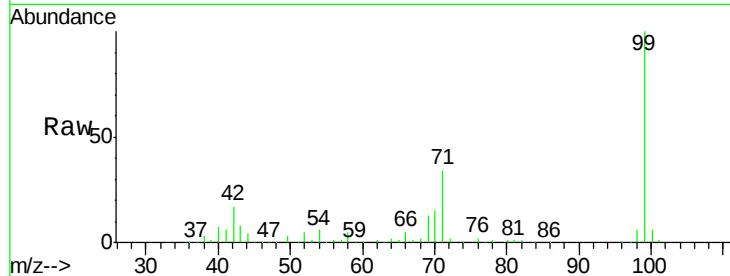
Tot Ion: 99 Resp: 214448

Ion Ratio Lower Upper

99 100

42 16.7 13.5 20.3

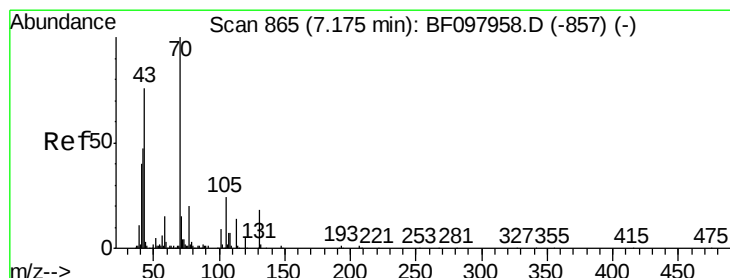
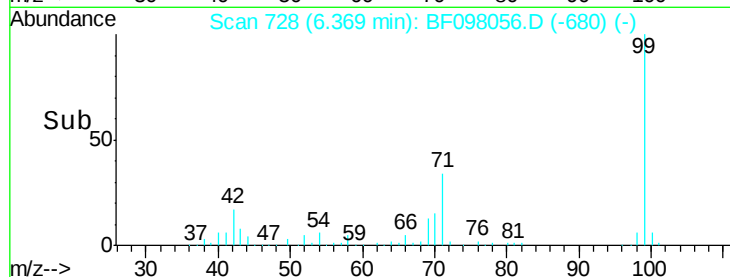
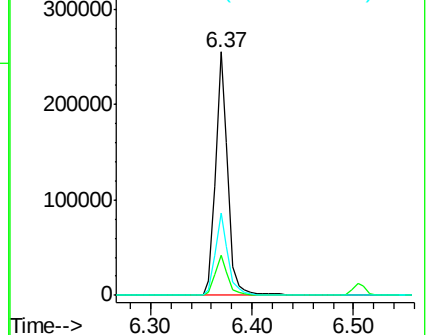
71 33.6 24.5 36.7



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: 2.46 ng

RT: 7.30 min Scan# 886

Delta R.T. 0.12 min

Lab File: BF098056.D

Acq: 26 Aug 2017 3:18

Tgt Ion: 70 Resp: 13119

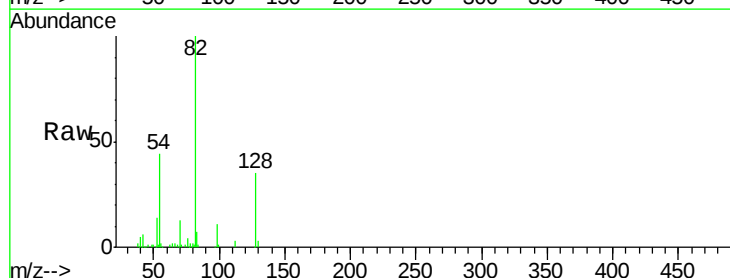
Ion Ratio Lower Upper

70 100

42 45.1 47.2 70.8#

101 0.0 7.2 10.8#

130 0.0 15.9 23.9#

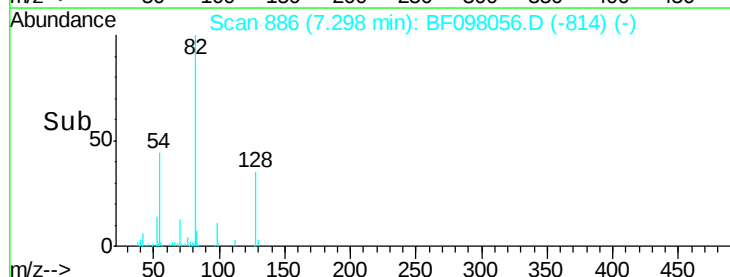
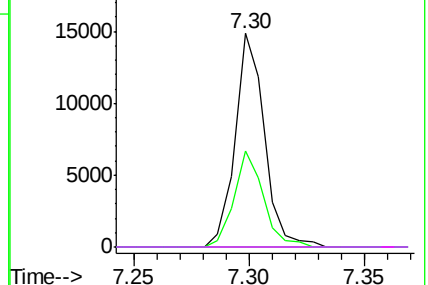


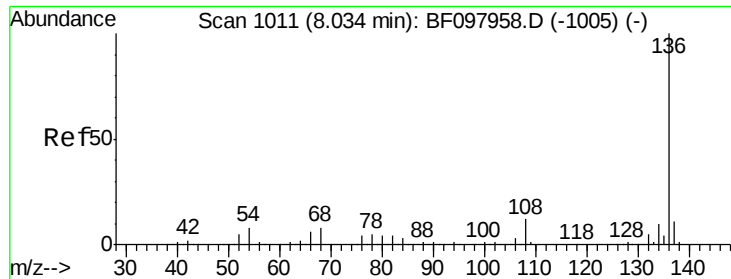
Abundance Ion 70.00 (69.70 to 70.70): BF0

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

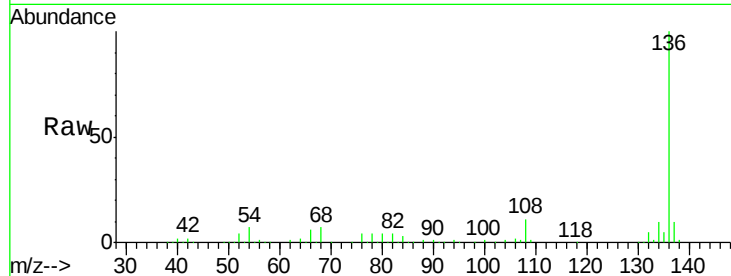




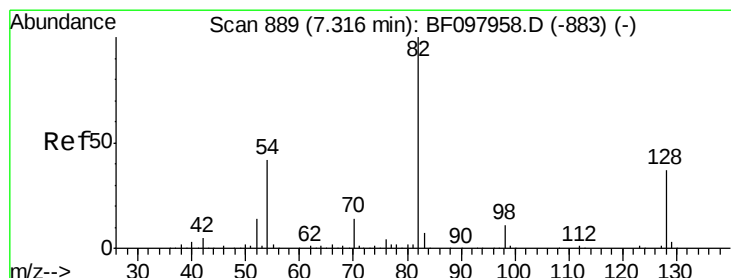
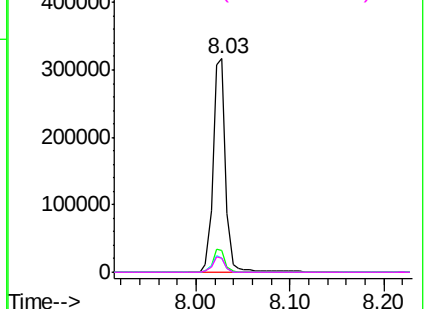
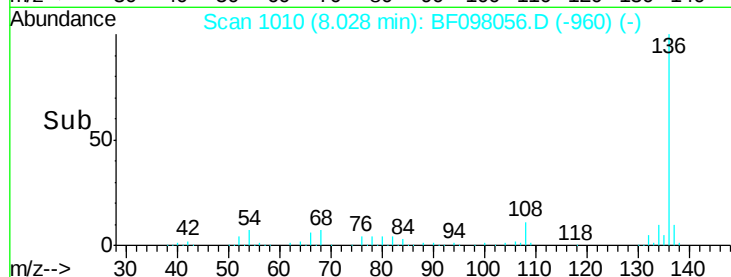
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.03 min Scan# 1010  
Delta R.T. -0.01 min  
Lab File: BF098056.D  
Acq: 26 Aug 2017 3:18

Instrument :  
BNA\_F  
ClientSampleId :  
OK-03-82417

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 303801   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 10.4  | 8.5 12.7 |
| 54          | 6.9   | 4.9 7.3  |
| 68          | 6.7   | 4.1 6.1# |

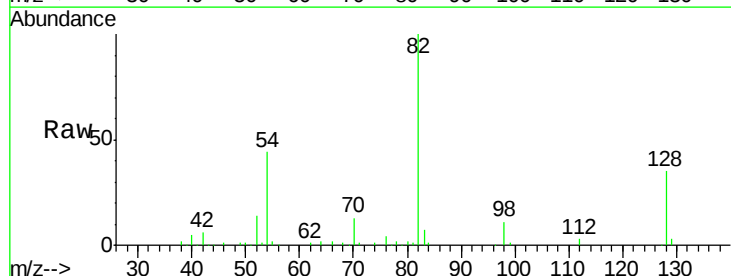


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

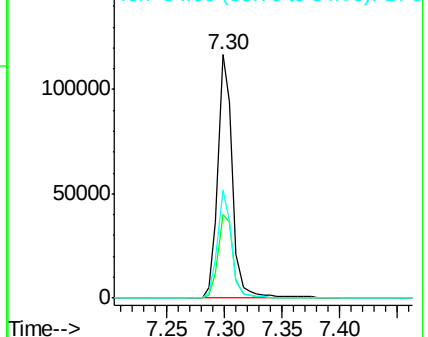
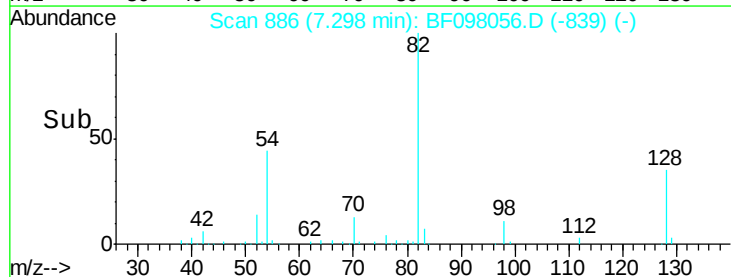


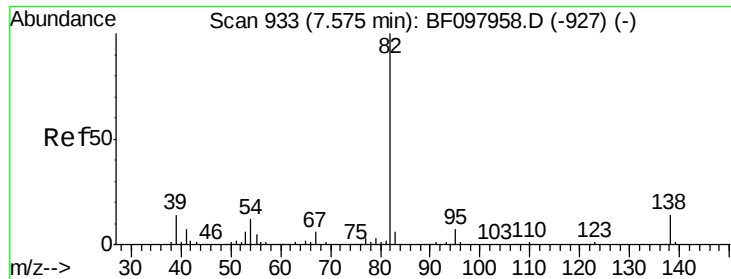
#23  
Nitrobenzene-d5  
Concen: 18.44 ng  
RT: 7.30 min Scan# 886  
Delta R.T. -0.02 min  
Lab File: BF098056.D  
Acq: 26 Aug 2017 3:18

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 103149    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 34.6  | 34.0 51.0 |
| 54          | 44.1  | 42.2 63.2 |



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 8.52 ng

RT: 7.30 min Scan# 886

Delta R.T. -0.28 min

Lab File: BF098056.D

Acq: 26 Aug 2017 3:18

Instrument :

BNA\_F

ClientSampleId :

OK-03-82417

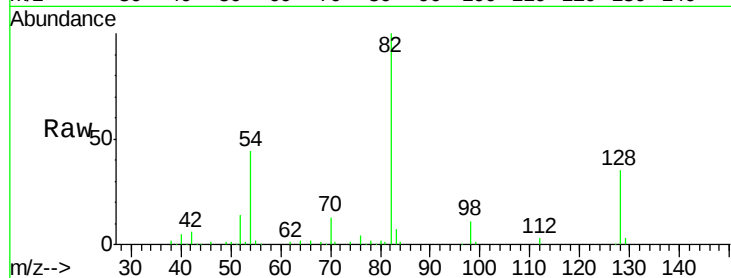
Tot Ion: 82 Resp: 99126

Ion Ratio Lower Upper

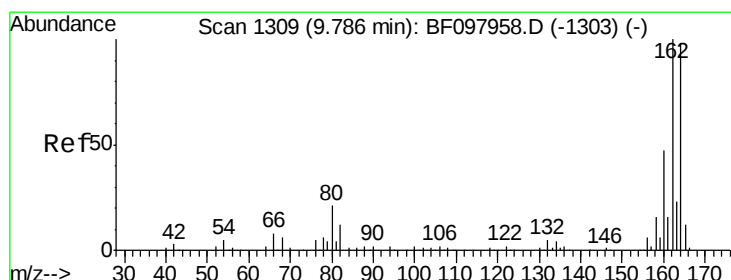
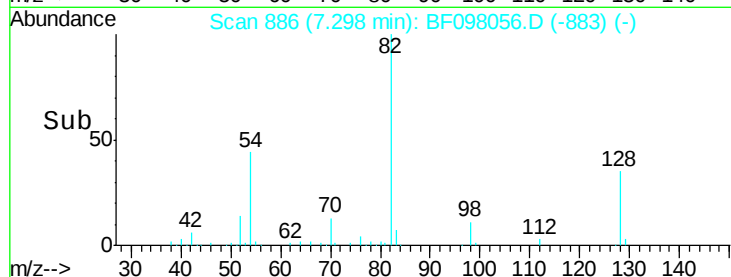
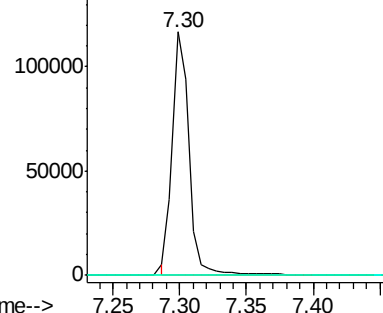
82 100

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): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.77 min Scan# 1307

Delta R.T. -0.01 min

Lab File: BF098056.D

Acq: 26 Aug 2017 3:18

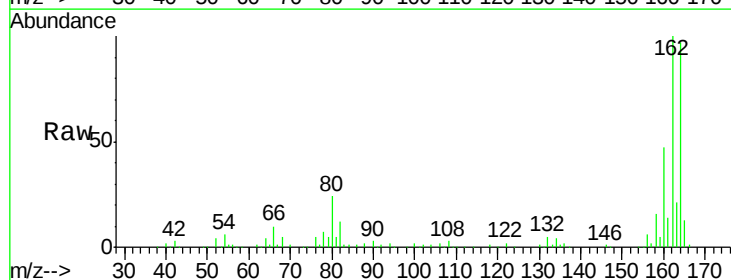
Tgt Ion:164 Resp: 114048

Ion Ratio Lower Upper

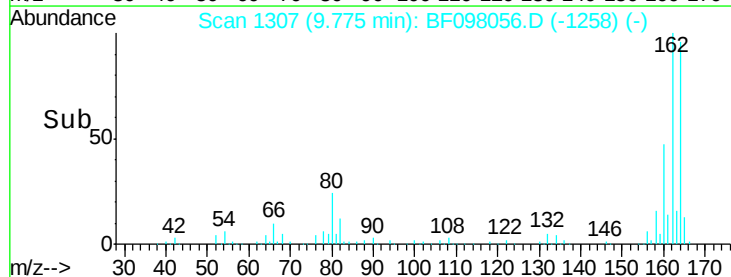
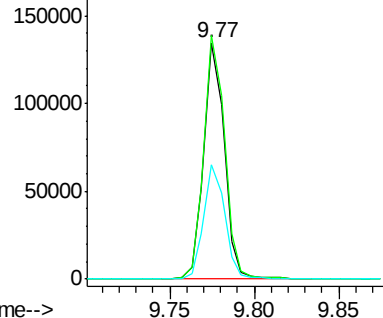
164 100

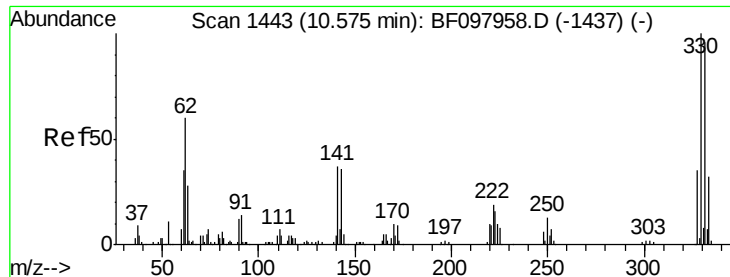
162 103.0 82.6 123.8

160 48.6 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

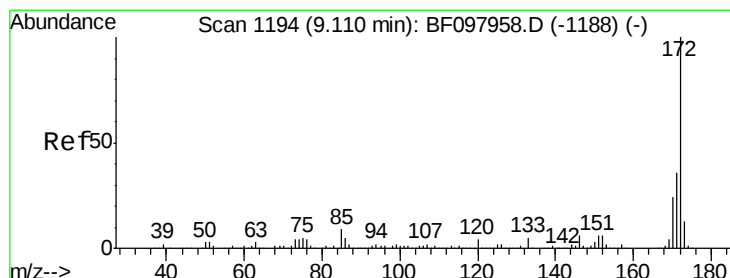
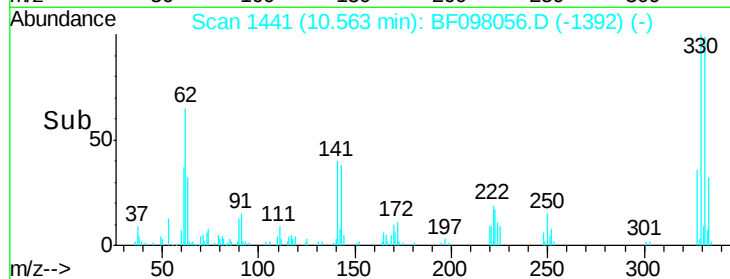
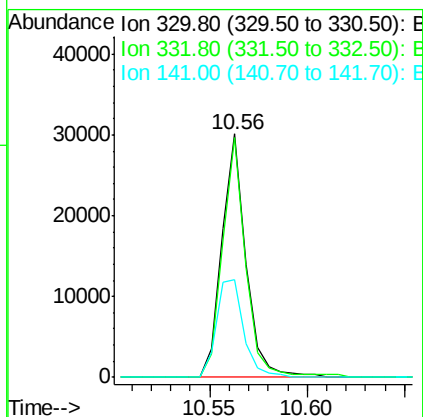
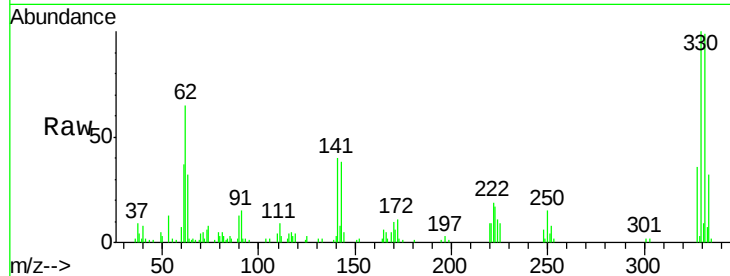




#41  
 2,4,6-Tribromophenol  
 Concen: 26.02 ng  
 RT: 10.56 min Scan# 1441  
 Delta R.T. -0.01 min  
 Lab File: BF098056.D  
 Acq: 26 Aug 2017 3:18

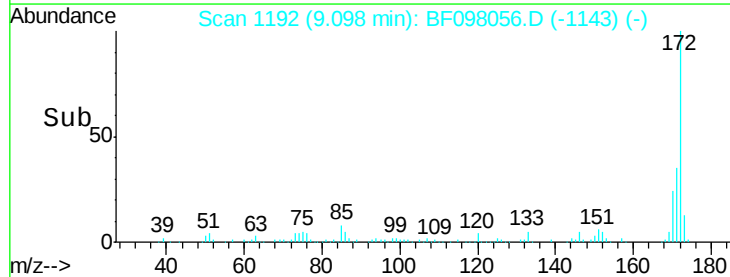
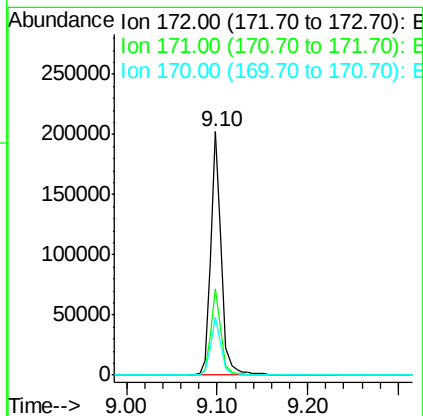
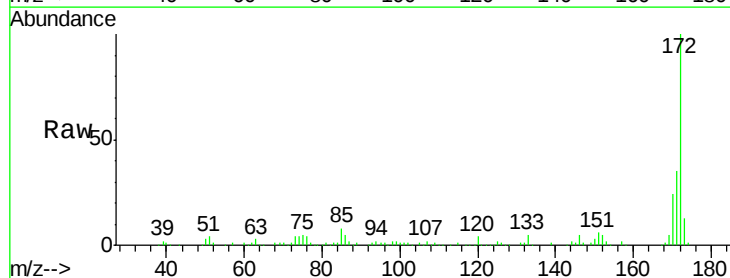
Instrument :  
 BNA\_F  
 ClientSampleId :  
 OK-03-82417

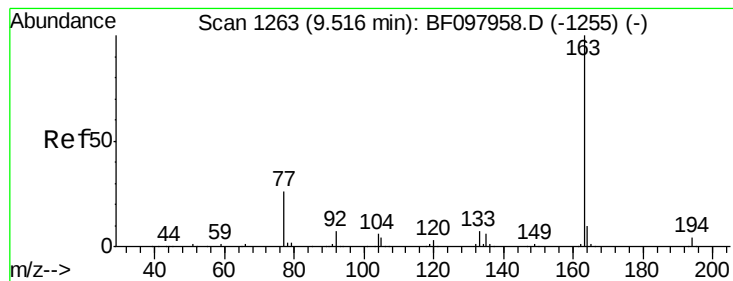
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.6  | 76.6  | 115.0 |
| 141     | 45.4  | 31.4  | 47.2  |



#44  
 2-Fluorobiphenyl  
 Concen: 21.69 ng  
 RT: 9.10 min Scan# 1192  
 Delta R.T. -0.01 min  
 Lab File: BF098056.D  
 Acq: 26 Aug 2017 3:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.4  | 29.6  | 44.4  |
| 170     | 23.7  | 19.8  | 29.8  |





#49

Dimethylphthalate

Concen: 2.67 ng

RT: 9.49 min Scan# 1259

Delta R.T. -0.02 min

Lab File: BF098056.D

Acq: 26 Aug 2017 3:18

Instrument :

BNA\_F

ClientSampleId :

OK-03-82417

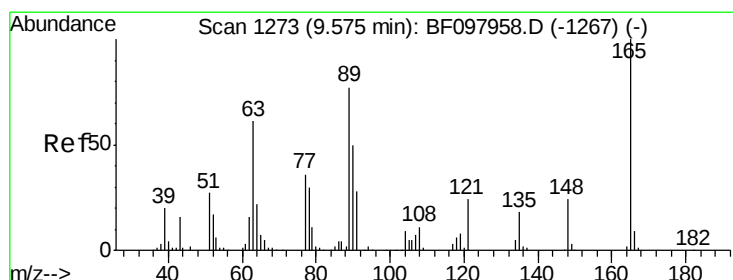
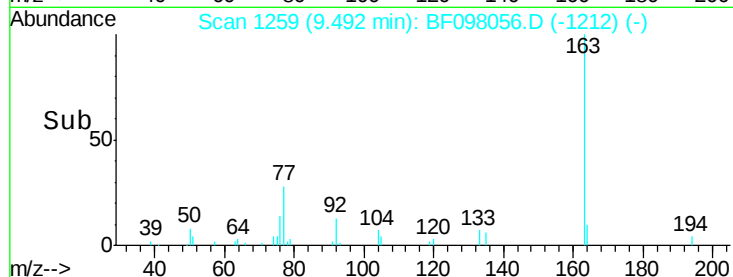
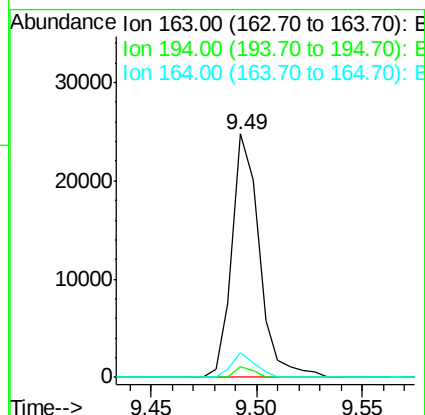
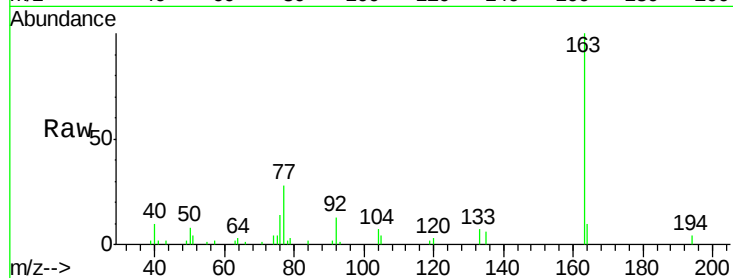
Tot Ion:163 Resp: 22260

Ion Ratio Lower Upper

163 100

194 4.2 2.6 4.0#

164 10.2 8.4 12.6



#50

2,6-Dinitrotoluene

Concen: 8.98 ng

RT: 9.77 min Scan# 1307

Delta R.T. 0.20 min

Lab File: BF098056.D

Acq: 26 Aug 2017 3:18

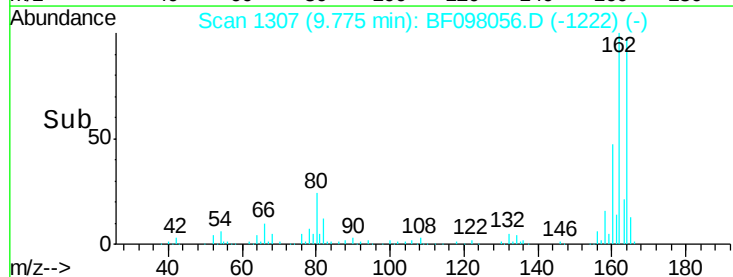
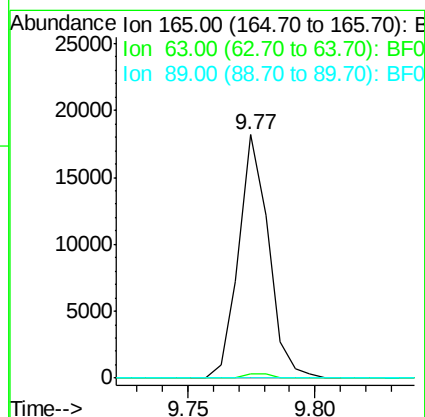
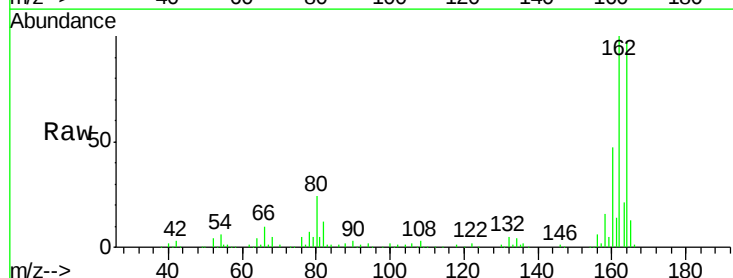
Tgt Ion:165 Resp: 14942

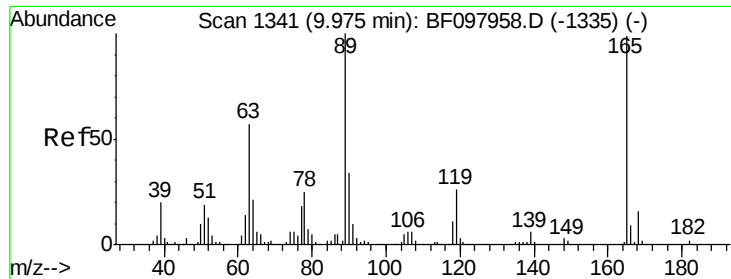
Ion Ratio Lower Upper

165 100

63 1.7 34.3 51.5#

89 0.0 37.1 55.7#

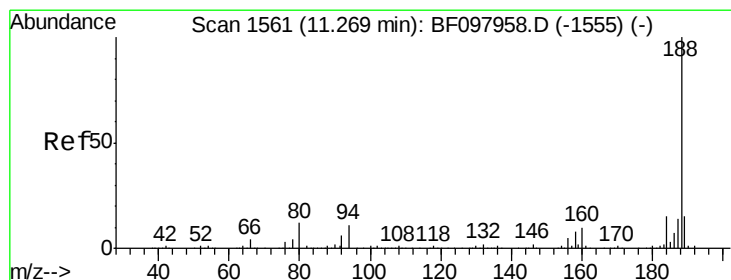
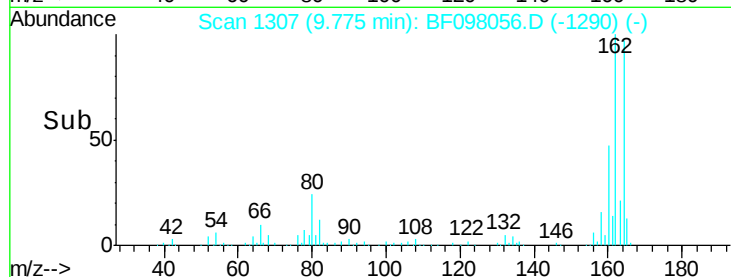
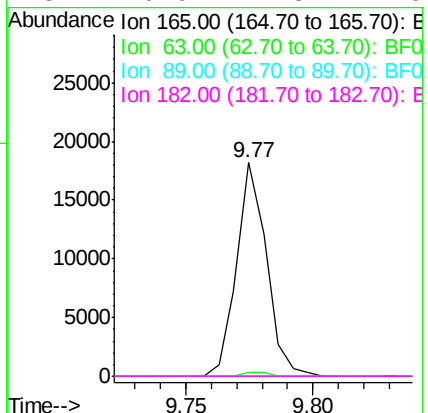
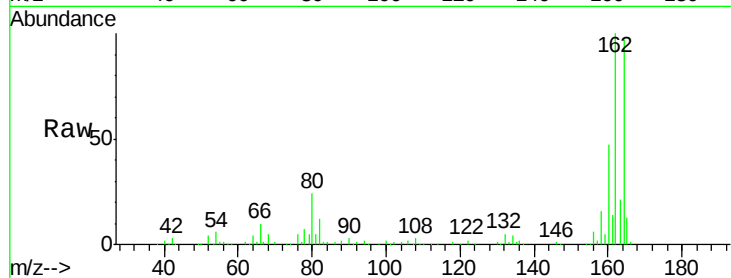




#56  
 2,4-Dinitrotoluene  
 Concen: 7.15 ng  
 RT: 9.77 min Scan# 1307  
 Delta R.T. -0.20 min  
 Lab File: BF098056.D  
 Acq: 26 Aug 2017 3:18

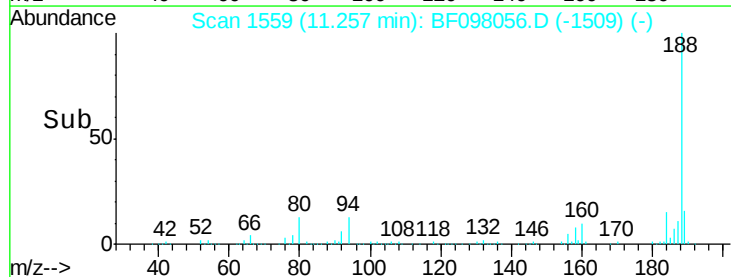
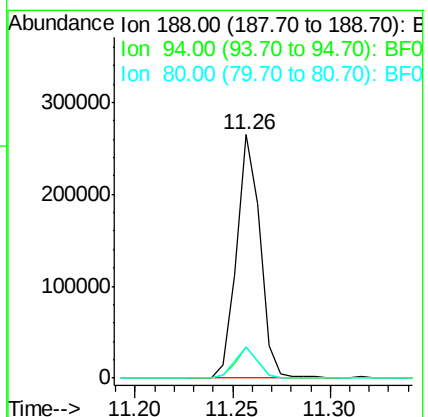
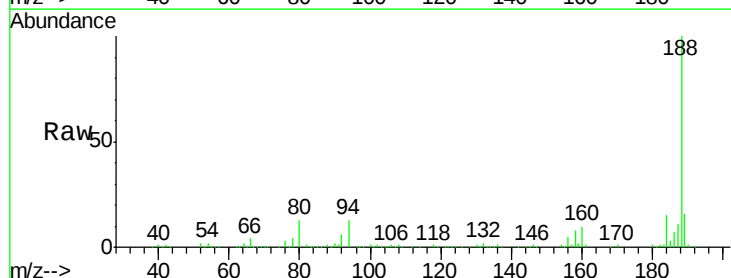
Instrument :  
 BNA\_F  
 ClientSampleId :  
 OK-03-82417

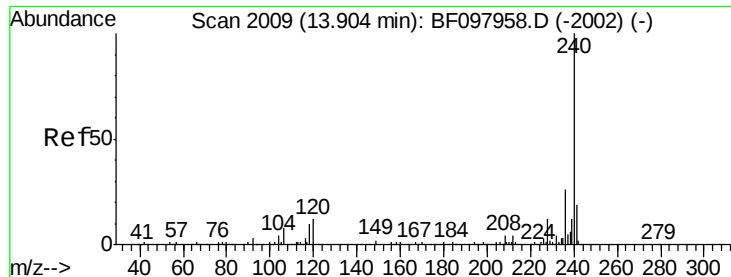
|             |       |            |
|-------------|-------|------------|
| Tot Ion:165 | Resp: | 14942      |
| Ion Ratio   | Lower | Upper      |
| 165         | 100   |            |
| 63          | 1.7   | 25.4 38.0# |
| 89          | 0.0   | 46.4 69.6# |
| 182         | 0.0   | 1.8 2.6#   |



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.26 min Scan# 1559  
 Delta R.T. -0.01 min  
 Lab File: BF098056.D  
 Acq: 26 Aug 2017 3:18

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:188 | Resp: | 221781    |
| Ion Ratio   | Lower | Upper     |
| 188         | 100   |           |
| 94          | 12.7  | 9.4 14.2  |
| 80          | 12.9  | 10.2 15.2 |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.89 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF098056.D

Acq: 26 Aug 2017 3:18

Instrument :

BNA\_F

ClientSampleID :

OK-03-82417

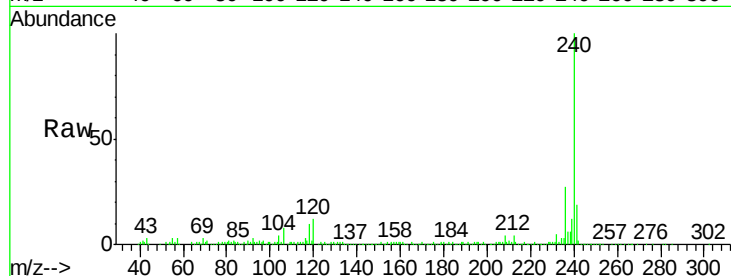
Tot Ion:240 Resp: 184328

Ion Ratio Lower Upper

240 100

120 12.3 5.8 8.8#

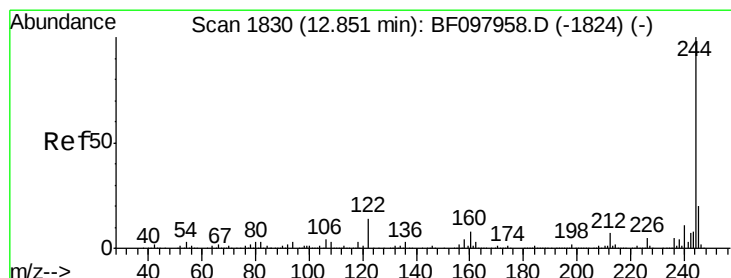
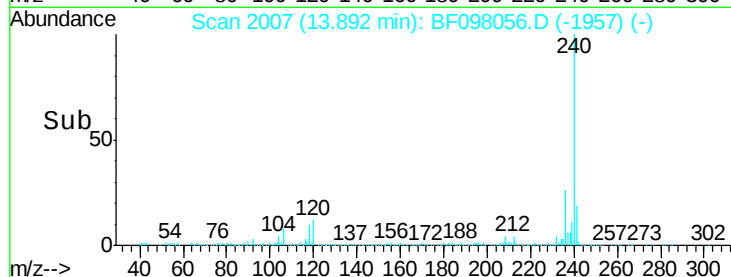
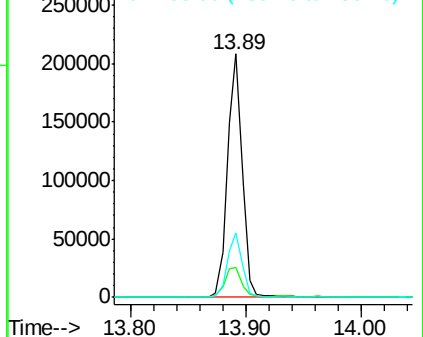
236 26.5 20.5 30.7



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: 17.33 ng

RT: 12.84 min Scan# 1828

Delta R.T. -0.01 min

Lab File: BF098056.D

Acq: 26 Aug 2017 3:18

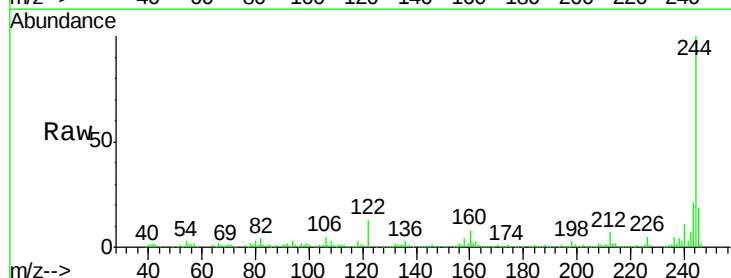
Tgt Ion:244 Resp: 153178

Ion Ratio Lower Upper

244 100

212 7.1 6.0 9.0

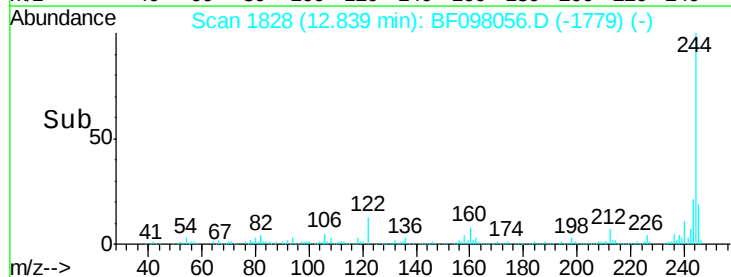
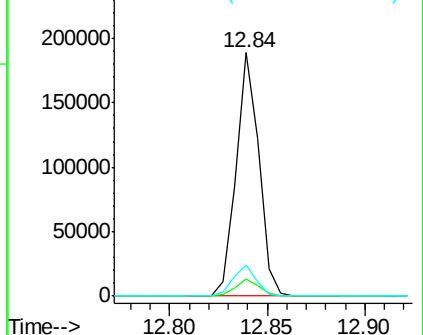
122 12.9 10.3 15.5

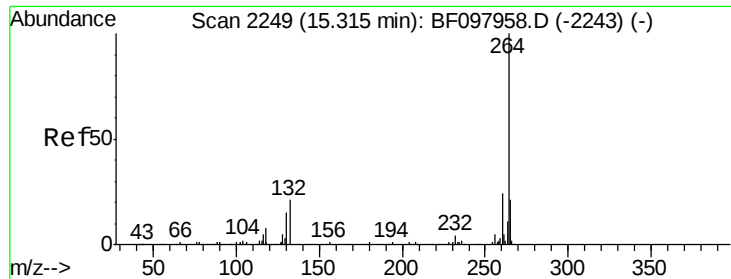


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

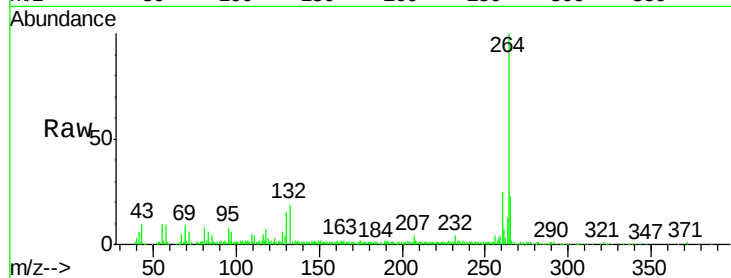




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.32 min Scan# 2249  
Delta R.T. 0.01 min  
Lab File: BF098056.D  
Acq: 26 Aug 2017 3:18

Instrument :  
BNA\_F  
ClientSampleId :  
OK-03-82417

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.8  | 19.5  | 29.3  |
| 265     | 23.1  | 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

