

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082917\  
 Data File : BF098145.D  
 Acq On : 30 Aug 2017 8:29  
 Operator : SJ/JU  
 Sample : I4989-06  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 30 12:16:13 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  | 123395   | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 8.02  | 136  | 477964   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10      | 9.77  | 164  | 185408   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10      | 11.25 | 188  | 274649   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 13.89 | 240  | 251256   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.30 | 264  | 229736   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.35  | 112  | 840070   | 103.55 | ng    | 0.00     |
| 7) Phenol-d6                | 6.37  | 99   | 1059269  | 96.10  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.30  | 82   | 713838   | 81.13  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.56 | 330  | 151228   | 94.01  | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 9.09  | 172  | 1009459  | 79.99  | ng    | -0.02    |
| 78) Terphenyl-d14           | 12.84 | 244  | 638269   | 52.97  | ng    | -0.01    |

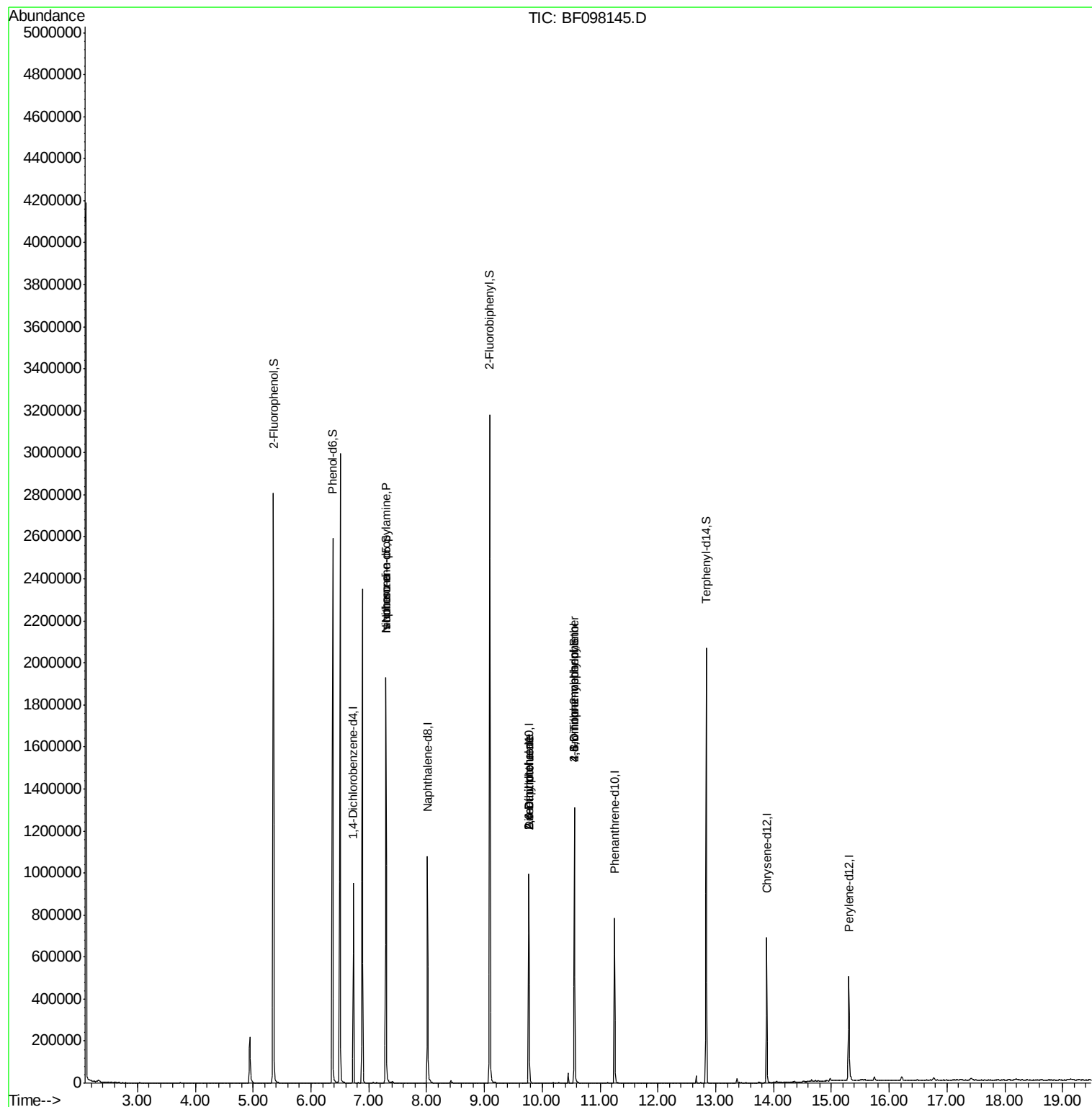
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.30  | 70   | 93480    | 12.389 | ng    | # 72   |
| 25) Isophorone                 | 7.30  | 82   | 702908   | 38.421 | ng    | # 67   |
| 49) Dimethylphthalate          | 9.77  | 163  | 48681    | 3.592  | ng    | # 1    |
| 50) 2,6-Dinitrotoluene         | 9.77  | 165  | 23204    | 8.577  | ng    | # 34   |
| 56) 2,4-Dinitrotoluene         | 9.77  | 165  | 23204    | 6.835  | ng    | # 34   |
| 64) 4,6-Dinitro-2-methylphenol | 10.55 | 198  | 318      | 8.524  | ng    | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.56 | 248  | 9811     | 3.440  | ng    | # 1    |

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

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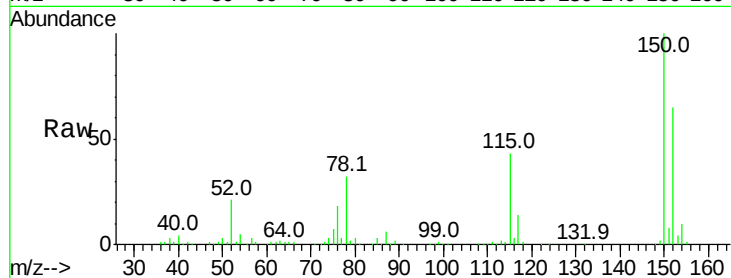


#1

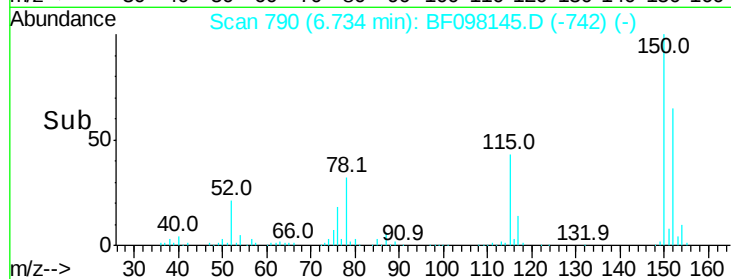
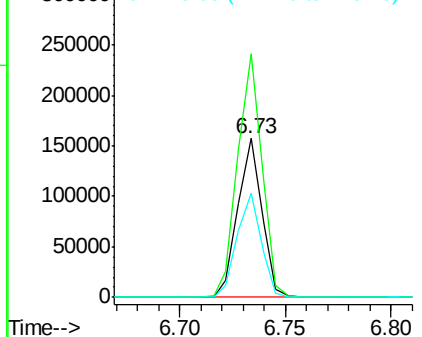
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.73 min Scan# 790  
 Delta R.T. -0.02 min  
 Lab File: BF098145.D  
 Acq: 30 Aug 2017 8:29

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.4 | 126.2 | 189.2 |
| 115     | 65.8  | 52.2  | 78.2  |



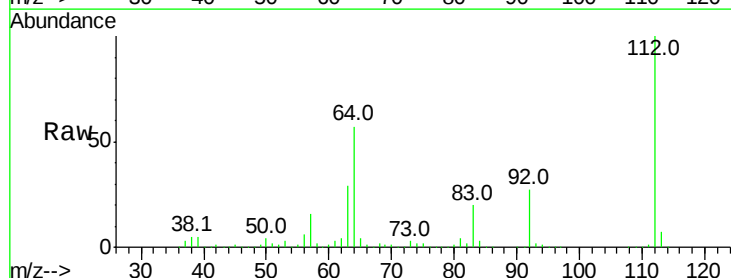
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



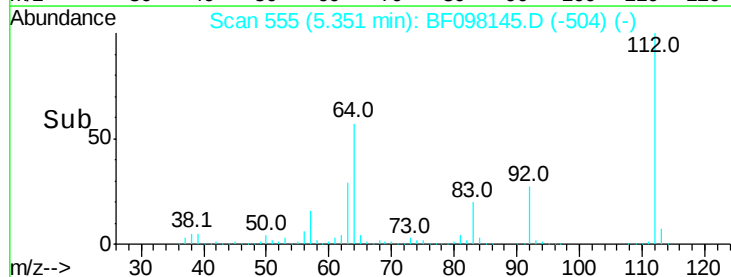
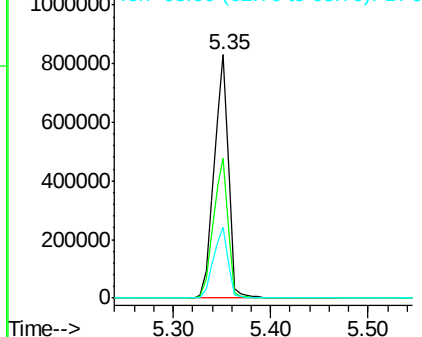
#5

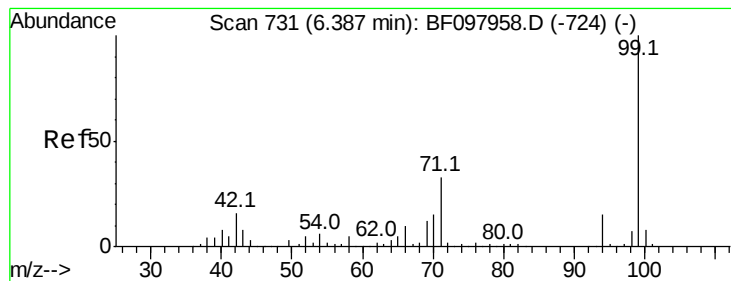
2-Fluorophenol  
 Concen: 103.554 ng  
 RT: 5.35 min Scan# 555  
 Delta R.T. 0.00 min  
 Lab File: BF098145.D  
 Acq: 30 Aug 2017 8:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.4  | 46.0  | 69.0  |
| 63      | 28.9  | 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: 96.102 ng

RT: 6.37 min Scan# 729

Delta R.T. -0.01 min

Lab File: BF098145.D

Acq: 30 Aug 2017 8:29

Instrument :

BNA\_F

ClientSampled :

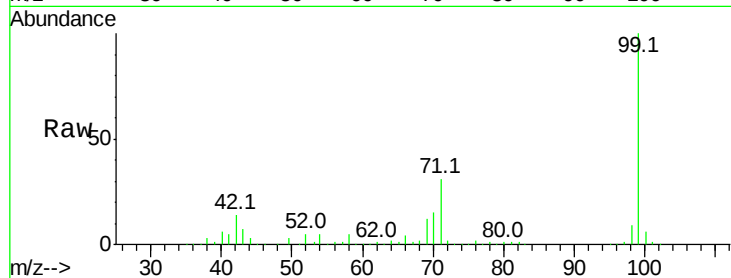
Tot Ion: 99 Resp: 1059269

Ion Ratio Lower Upper

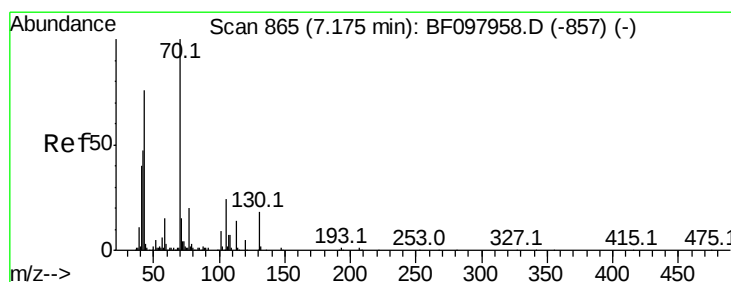
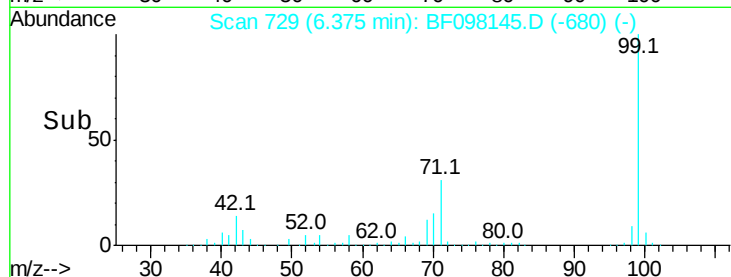
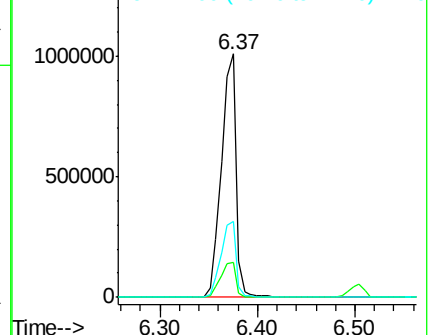
99 100

42 14.4 13.5 20.3

71 31.0 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: 12.389 ng

RT: 7.30 min Scan# 886

Delta R.T. 0.12 min

Lab File: BF098145.D

Acq: 30 Aug 2017 8:29

Tgt Ion: 70 Resp: 93480

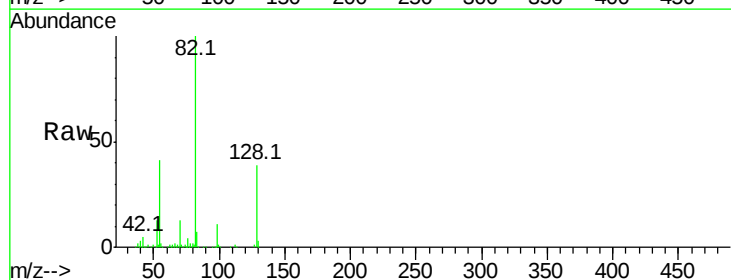
Ion Ratio Lower Upper

70 100

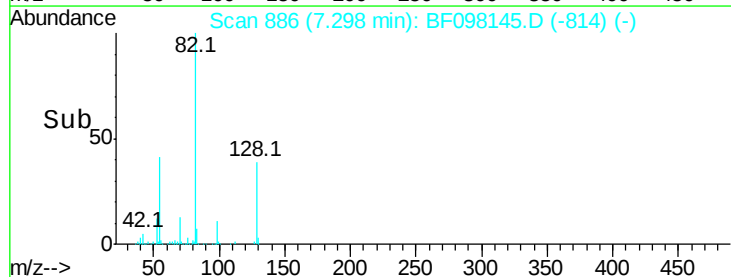
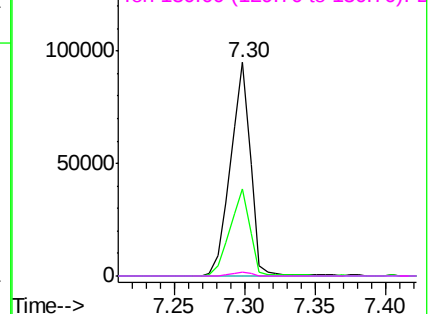
42 40.7 47.2 70.8#

101 0.0 7.2 10.8#

130 1.8 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

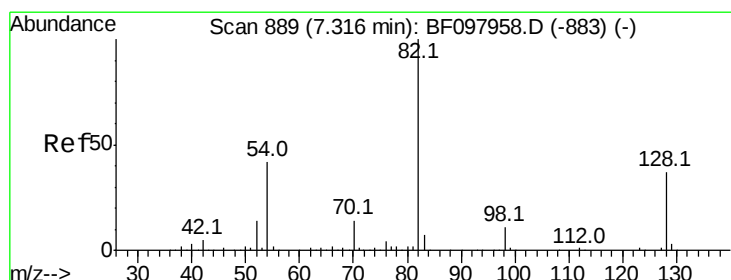
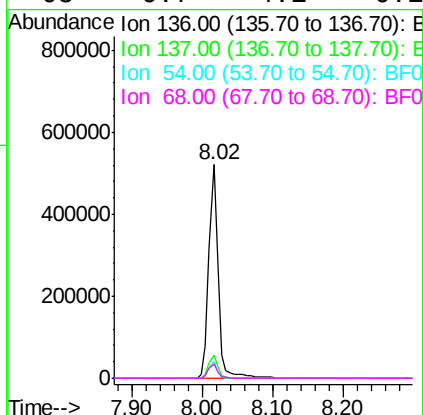
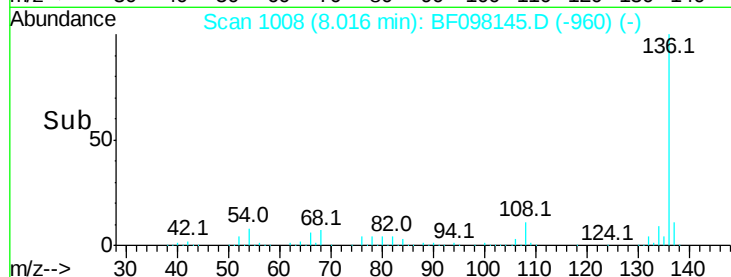
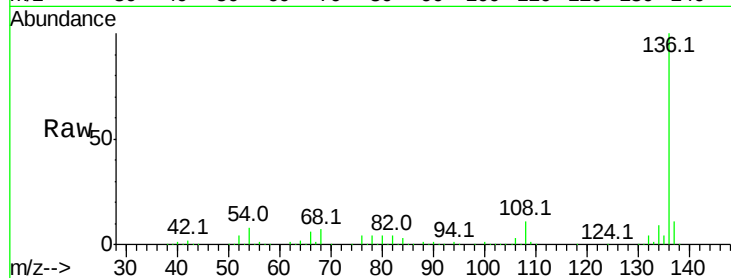




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.02 min Scan# 1008  
Delta R.T. -0.02 min  
Lab File: BF098145.D  
Acq: 30 Aug 2017 8:29

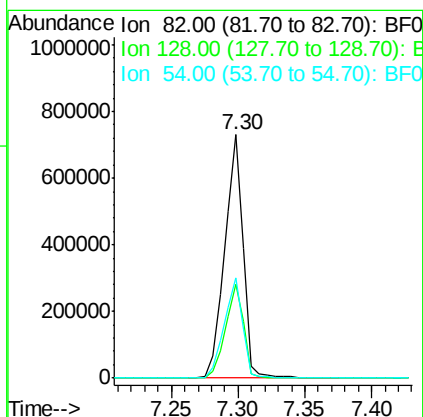
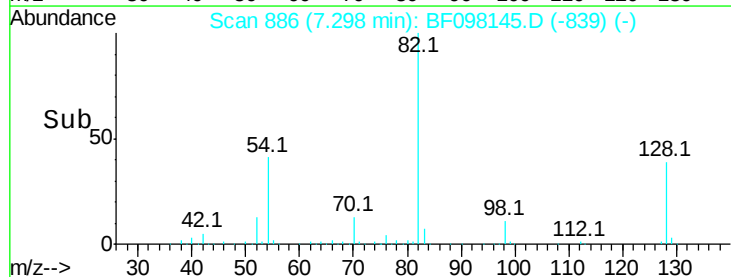
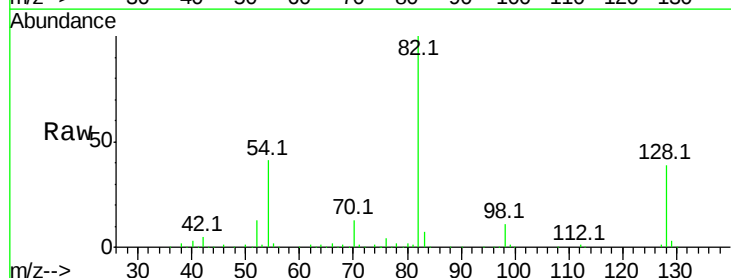
Instrument :  
BNA\_F  
ClientSampleId :

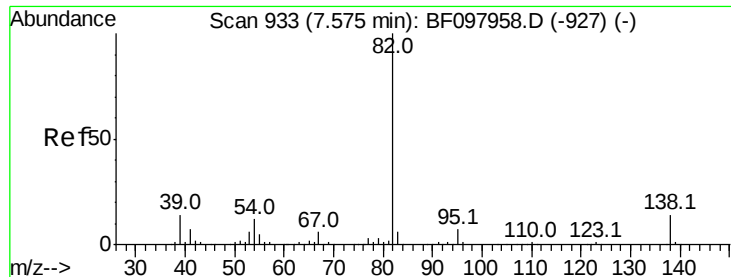
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 477964 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.9  | 8.5   | 12.7   |
| 54       | 7.7   | 4.9   | 7.3#   |
| 68       | 6.7   | 4.1   | 6.1#   |



#23  
Nitrobenzene-d5  
Concen: 81.134 ng  
RT: 7.30 min Scan# 886  
Delta R.T. -0.02 min  
Lab File: BF098145.D  
Acq: 30 Aug 2017 8:29

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 713838 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 38.7  | 34.0  | 51.0   |
| 54       | 41.3  | 42.2  | 63.2#  |





#25

Isophorone

Concen: 38.421 ng

RT: 7.30 min Scan# 886

Delta R.T. -0.28 min

Lab File: BF098145.D

Acq: 30 Aug 2017 8:29

Instrument :

BNA\_F

ClientSampleId :

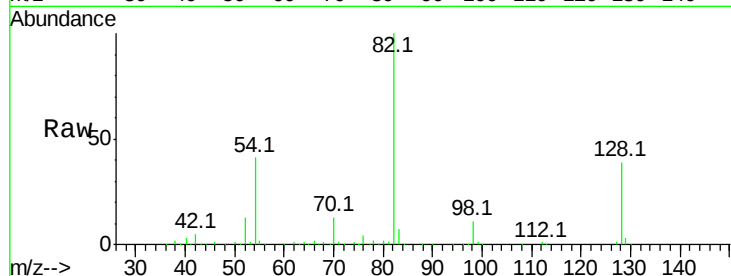
Tot Ion: 82 Resp: 702908

Ion Ratio Lower Upper

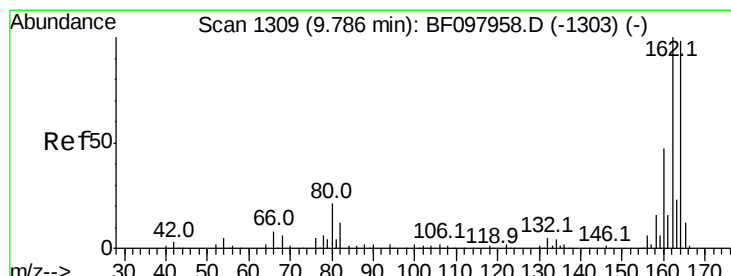
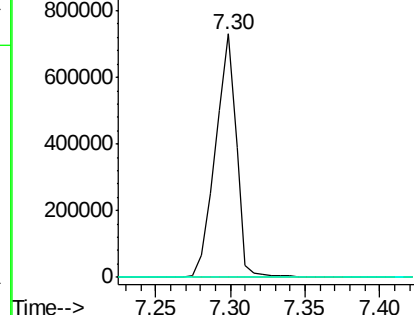
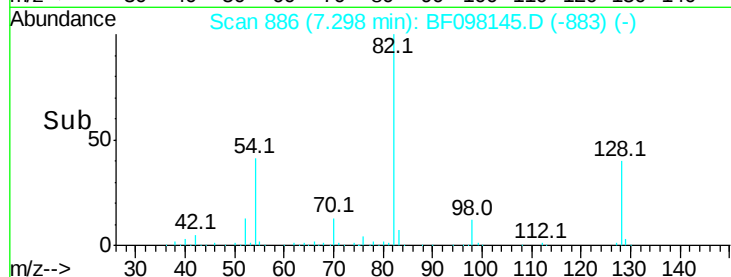
82 100

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: BF098145.D

Acq: 30 Aug 2017 8:29

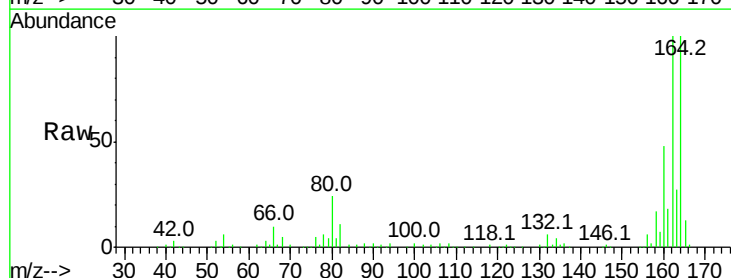
Tgt Ion: 164 Resp: 185408

Ion Ratio Lower Upper

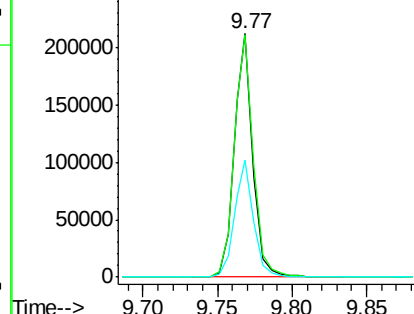
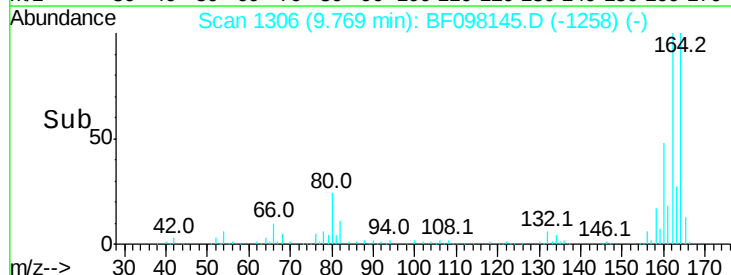
164 100

162 99.6 82.6 123.8

160 48.0 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

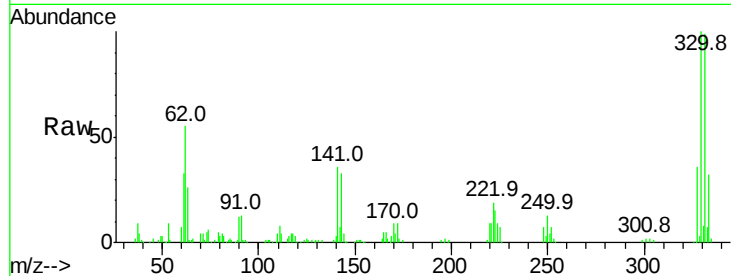




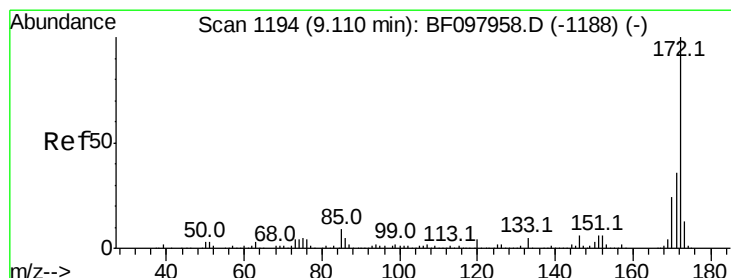
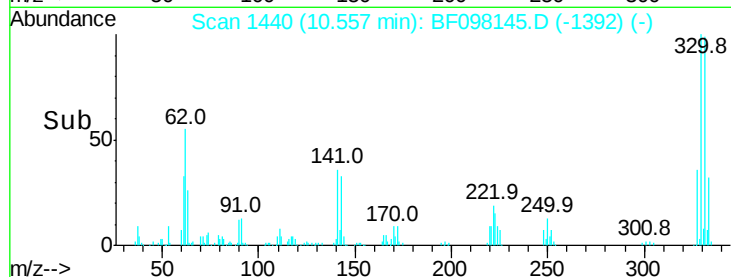
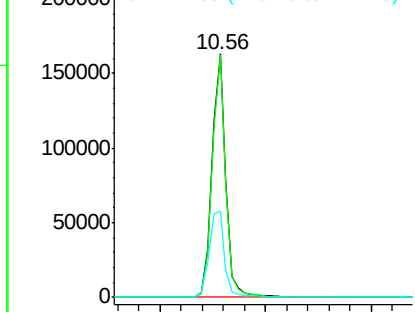
#41  
 2,4,6-Tribromophenol  
 Concen: 94.005 ng  
 RT: 10.56 min Scan# 1440  
 Delta R.T. -0.02 min  
 Lab File: BF098145.D  
 Acq: 30 Aug 2017 8:29

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.1  | 76.6  | 115.0 |
| 141     | 39.7  | 31.4  | 47.2  |

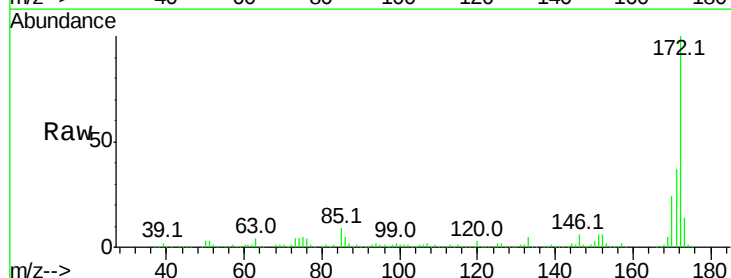


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

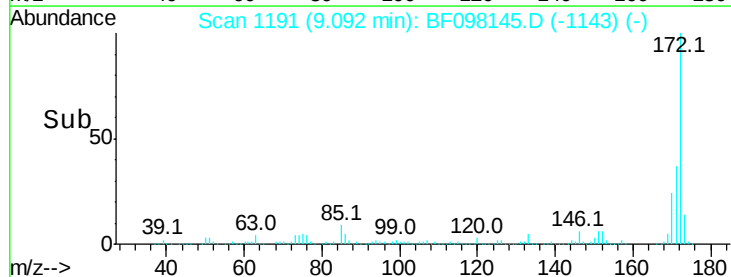
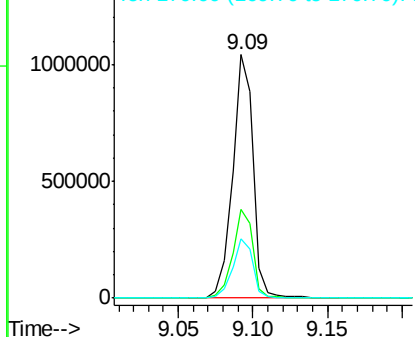


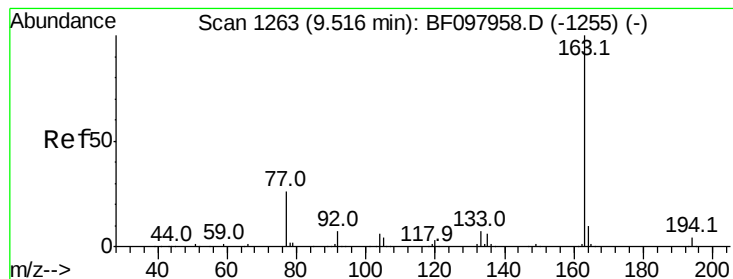
#44  
 2-Fluorobiphenyl  
 Concen: 79.991 ng  
 RT: 9.09 min Scan# 1191  
 Delta R.T. -0.02 min  
 Lab File: BF098145.D  
 Acq: 30 Aug 2017 8:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.7  | 29.6  | 44.4  |
| 170     | 24.1  | 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: 3.592 ng

RT: 9.77 min Scan# 1306

Delta R.T. 0.25 min

Lab File: BF098145.D

Acq: 30 Aug 2017 8:29

Instrument :

BNA\_F

ClientSampleId :

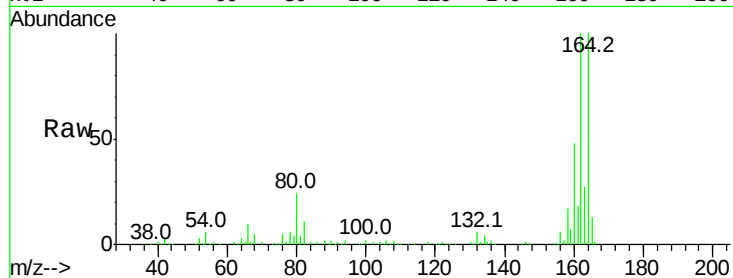
Tot Ion:163 Resp: 48681

Ion Ratio Lower Upper

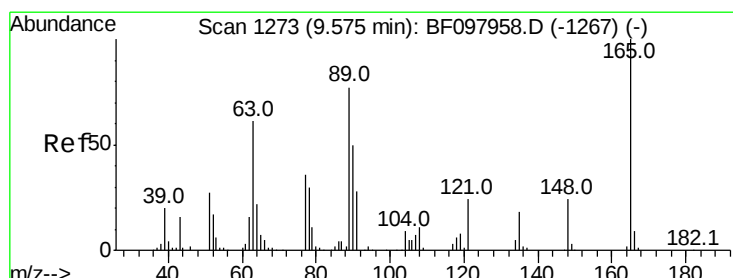
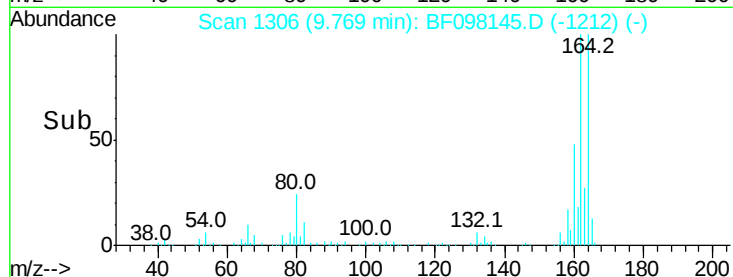
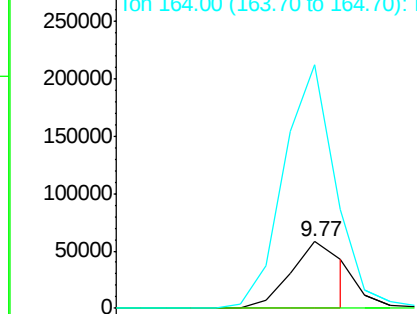
163 100

194 0.0 2.6 4.0#

164 366.6 8.4 12.6#



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



#50

2,6-Dinitrotoluene

Concen: 8.577 ng

RT: 9.77 min Scan# 1306

Delta R.T. 0.19 min

Lab File: BF098145.D

Acq: 30 Aug 2017 8:29

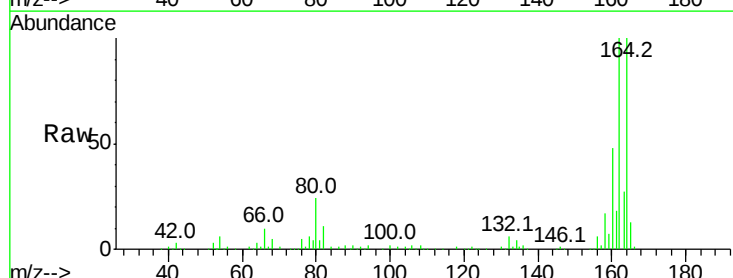
Tgt Ion:165 Resp: 23204

Ion Ratio Lower Upper

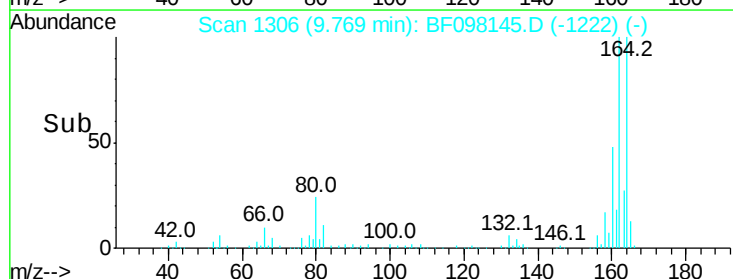
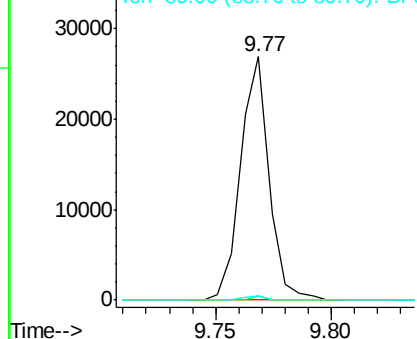
165 100

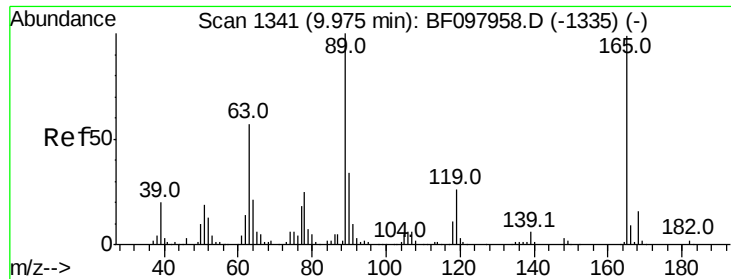
63 1.8 34.3 51.5#

89 1.9 37.1 55.7#



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

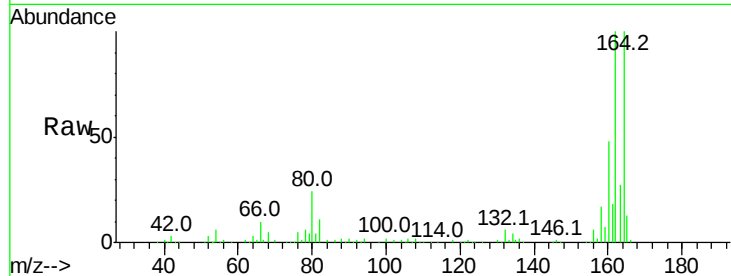




#56  
 2,4-Dinitrotoluene  
 Concen: 6.835 ng  
 RT: 9.77 min Scan# 1306  
 Delta R.T. -0.21 min  
 Lab File: BF098145.D  
 Acq: 30 Aug 2017 8:29

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.8   | 25.4  | 38.0# |
| 89      | 1.9   | 46.4  | 69.6# |
| 182     | 0.0   | 1.8   | 2.6#  |

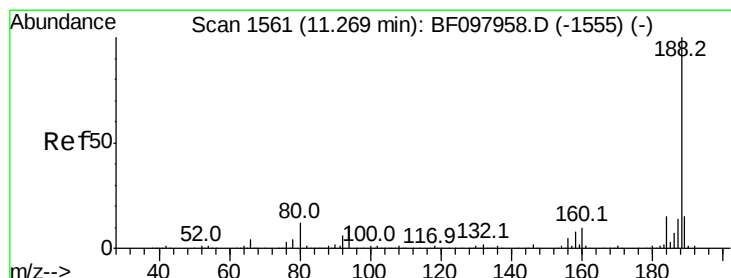
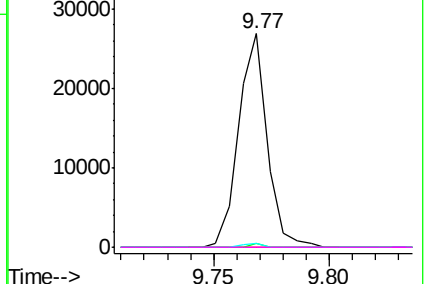
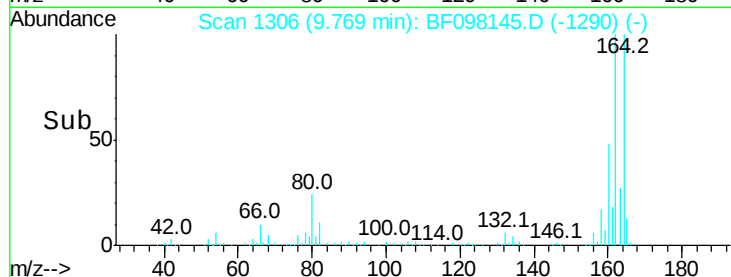


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

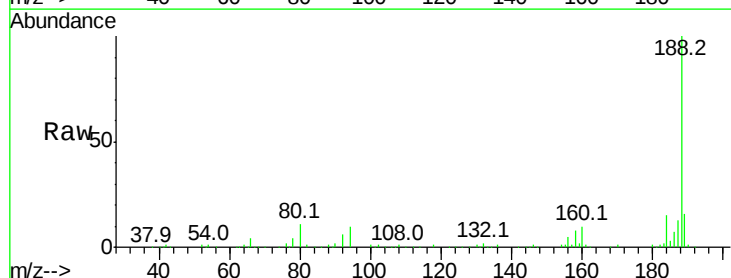
Ion 89.00 (88.70 to 89.70): BF0

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: BF098145.D  
 Acq: 30 Aug 2017 8:29

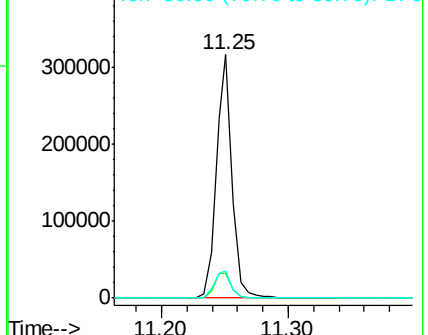
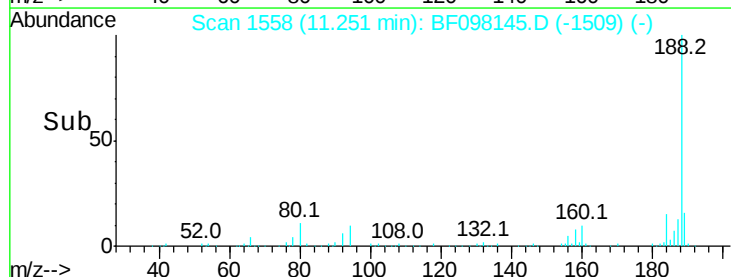
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.3  | 9.4   | 14.2  |
| 80      | 11.0  | 10.2  | 15.2  |

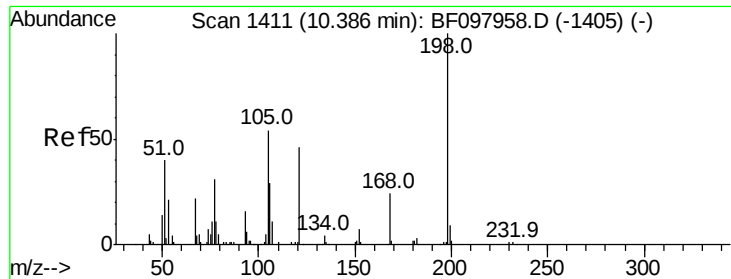


Abundance Ion 188.00 (187.70 to 188.70): E

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: 8.524 ng

RT: 10.55 min Scan# 1439

Delta R.T. 0.17 min

Lab File: BF098145.D

Acq: 30 Aug 2017 8:29

Instrument :

BNA\_F

ClientSampled :

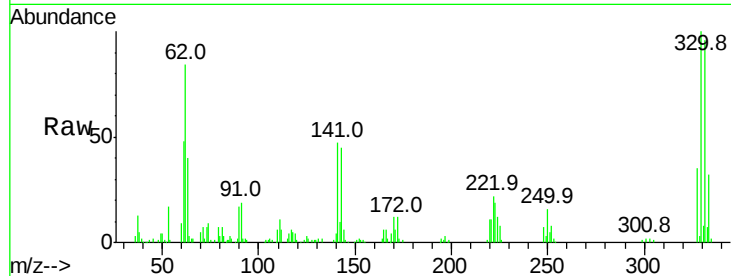
Tot Ion:198 Resp: 318

Ion Ratio Lower Upper

198 100

51 146.6 53.2 93.2#

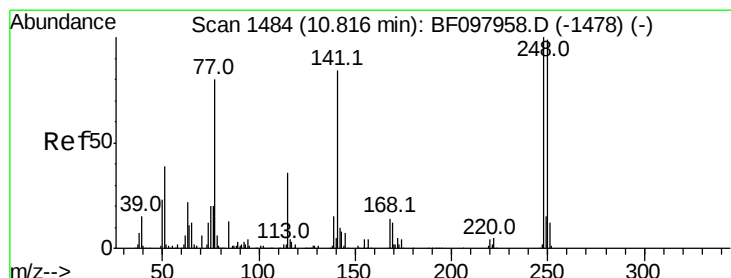
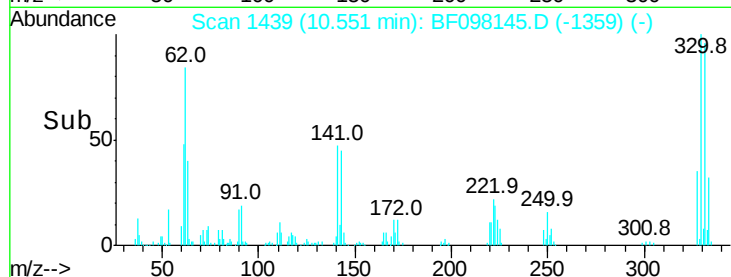
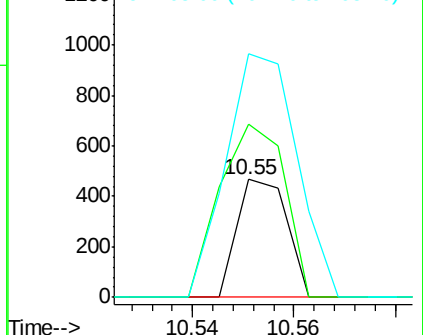
105 206.2 45.8 85.8#



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: 3.440 ng

RT: 10.56 min Scan# 1440

Delta R.T. -0.26 min

Lab File: BF098145.D

Acq: 30 Aug 2017 8:29

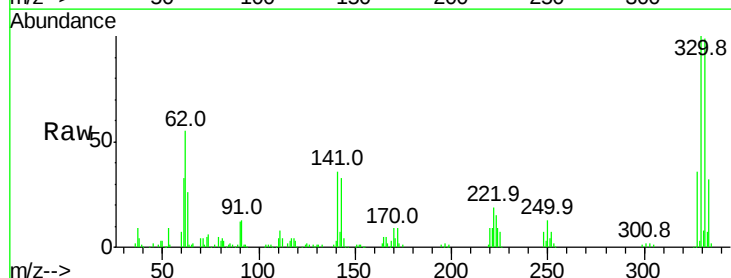
Tgt Ion:248 Resp: 9811

Ion Ratio Lower Upper

248 100

250 193.6 76.8 115.2#

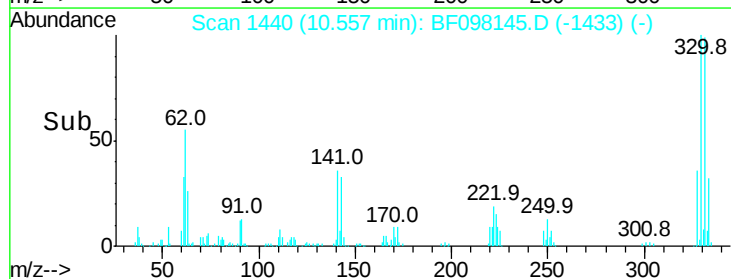
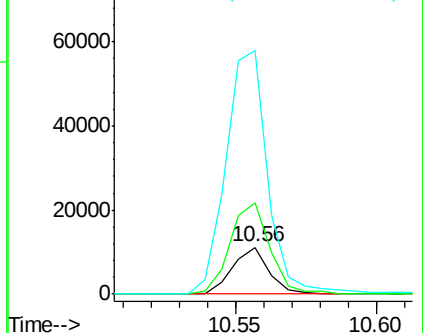
141 516.6 68.6 103.0#

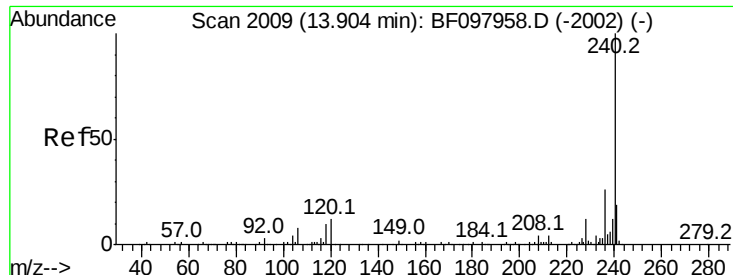


Abundance Ion 248.00 (247.70 to 248.70): E

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: 13.89 min Scan# 2006

Delta R.T. -0.01 min

Lab File: BF098145.D

Acq: 30 Aug 2017 8:29

Instrument :

BNA\_F

ClientSampleId :

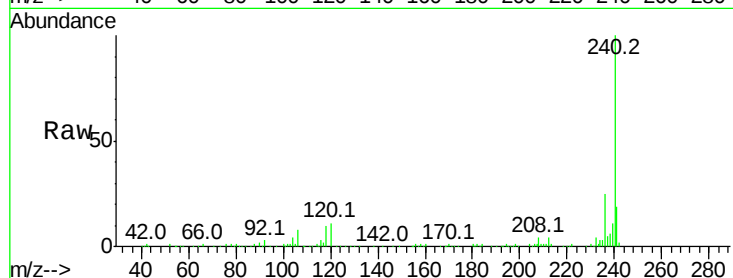
Tot Ion:240 Resp: 251256

Ion Ratio Lower Upper

240 100

120 11.5 5.8 8.8#

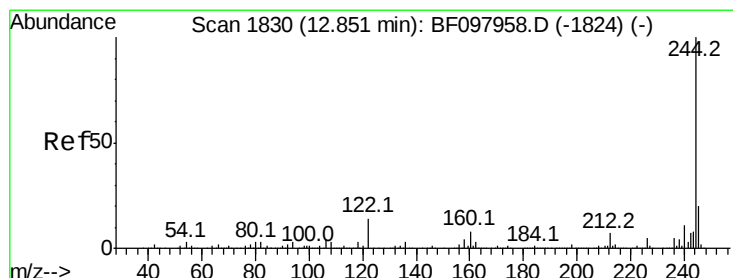
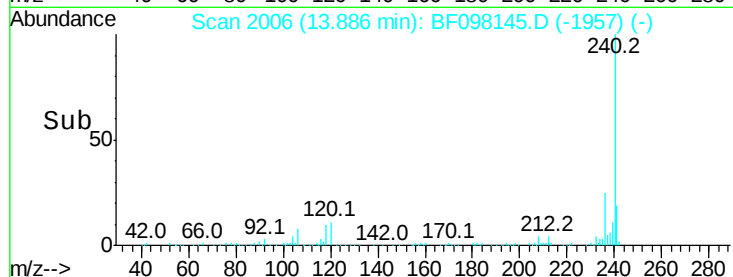
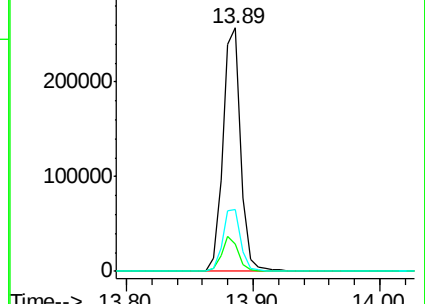
236 25.3 20.5 30.7



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: 52.974 ng

RT: 12.84 min Scan# 1828

Delta R.T. -0.01 min

Lab File: BF098145.D

Acq: 30 Aug 2017 8:29

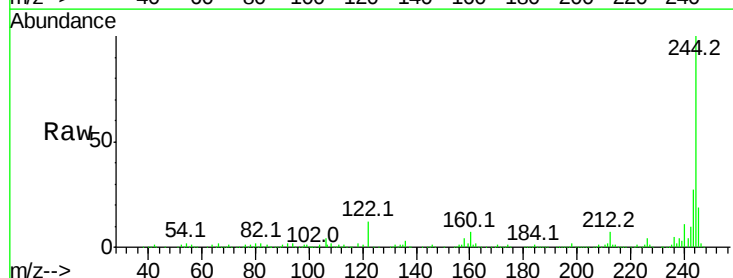
Tgt Ion:244 Resp: 638269

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

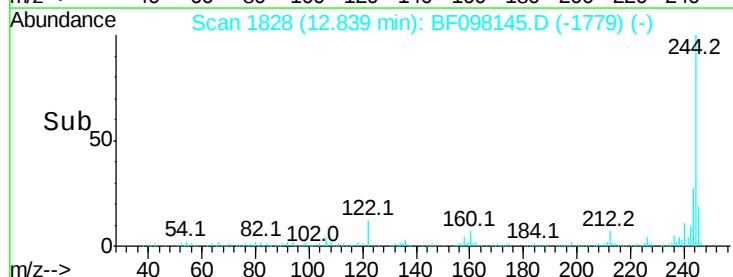
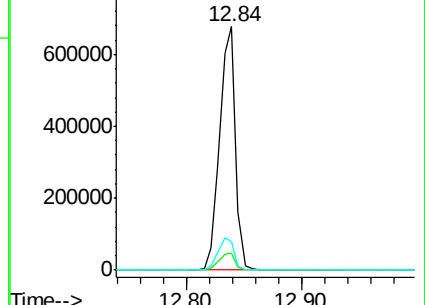
122 11.6 10.3 15.5

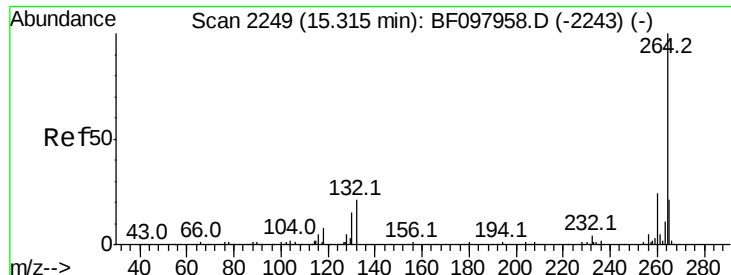


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

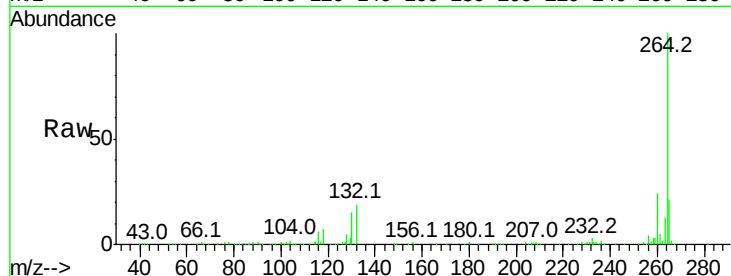




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.30 min Scan# 2247  
Delta R.T. -0.01 min  
Lab File: BF098145.D  
Acq: 30 Aug 2017 8:29

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.1  | 19.5  | 29.3  |
| 265     | 20.6  | 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

