

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082917\  
 Data File : BF098140.D  
 Acq On : 30 Aug 2017 6:10  
 Operator : SJ/JU  
 Sample : I4988-06  
 Misc :  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 30 07:49:07 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

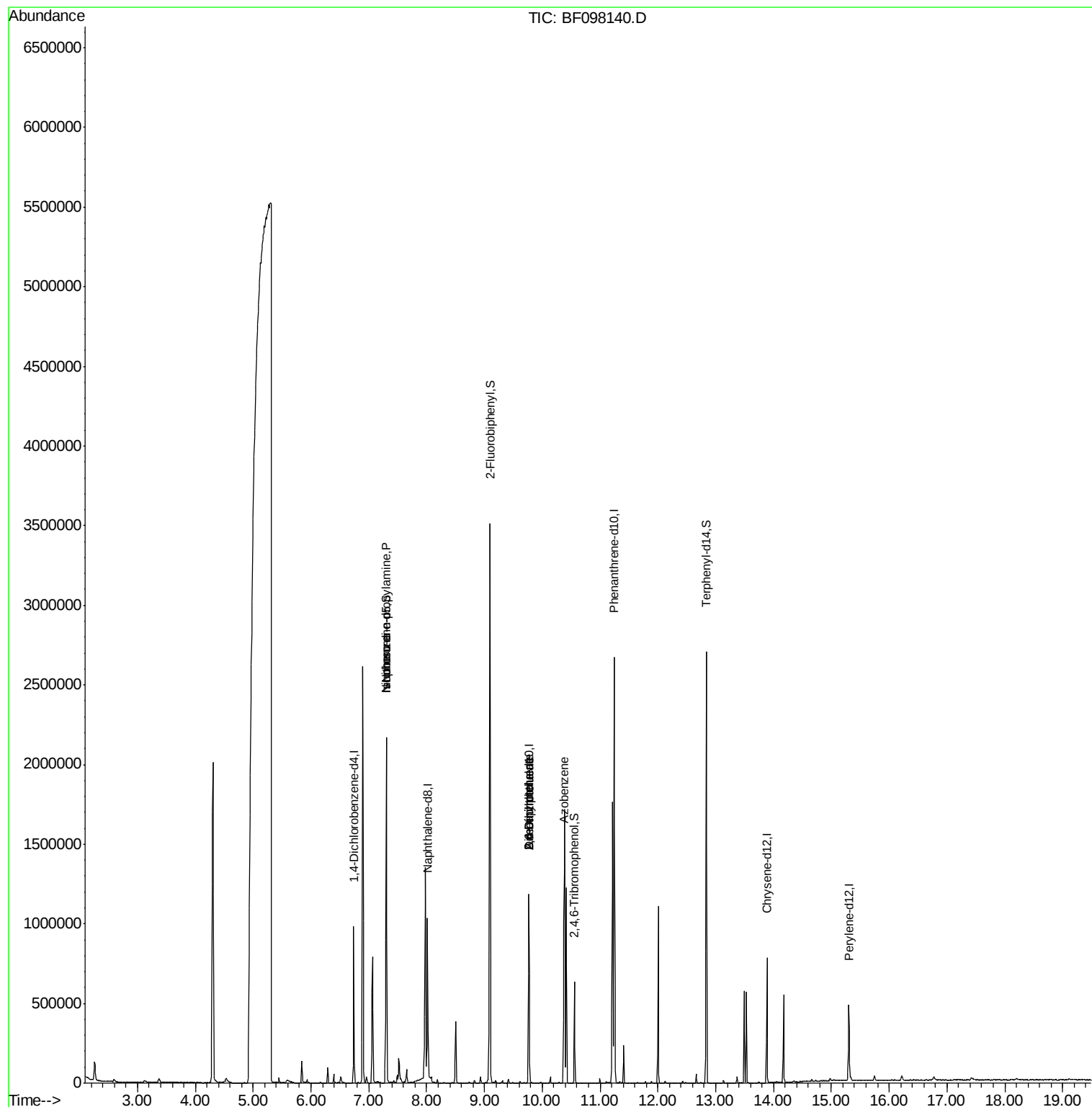
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.74  | 152  | 131860   | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 8.02  | 136  | 518924   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.77  | 164  | 217105   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 11.25 | 188  | 333030   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 13.89 | 240  | 272496   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 15.30 | 264  | 209337   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.45  | 112  | 7153     | 0.83   | ng    | 0.09     |
| 7) Phenol-d6                   | 6.39  | 99   | 2690     | 0.23   | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.30  | 82   | 753328   | 78.86  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.56 | 330  | 65364    | 34.70  | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 9.10  | 172  | 1179492  | 79.82  | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.84 | 244  | 827135   | 63.30  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.30  | 70   | 101113   | 12.540 | ng    | # 71     |
| 25) Isophorone                 | 7.30  | 82   | 736389   | 37.074 | ng    | # 69     |
| 49) Dimethylphthalate          | 9.77  | 163  | 57934    | 3.651  | ng    | # 1      |
| 50) 2,6-Dinitrotoluene         | 9.77  | 165  | 27175    | 8.579  | ng    | # 34     |
| 56) 2,4-Dinitrotoluene         | 9.77  | 165  | 27175    | 6.836  | ng    | # 33     |
| 62) Azobenzene                 | 10.37 | 77   | 43274    | 2.195  | ng    | # 74     |

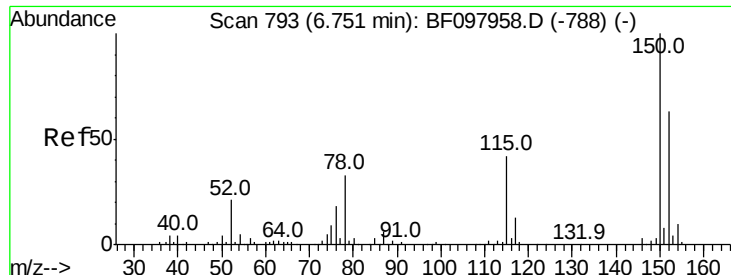
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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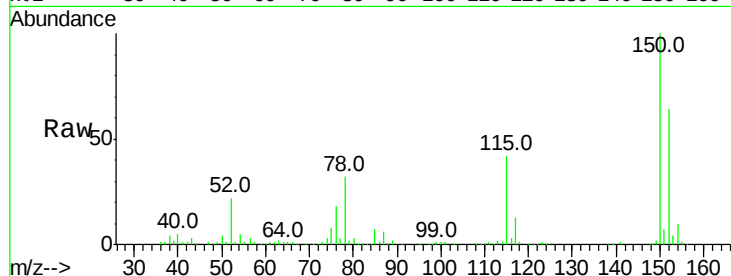


#1

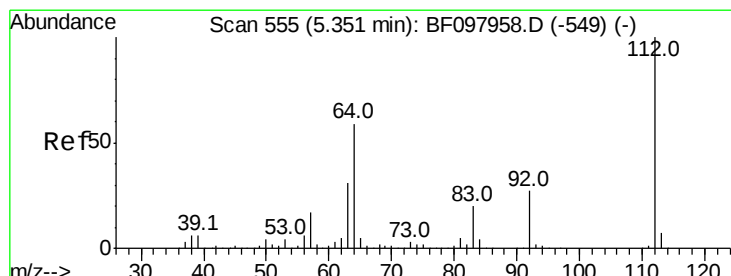
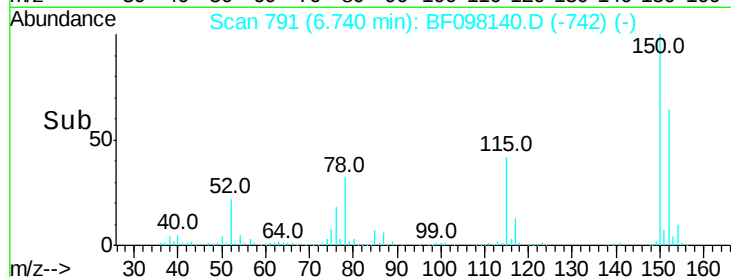
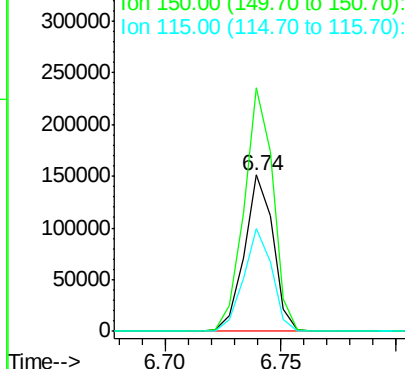
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.74 min Scan# 791  
Delta R.T. -0.01 min  
Lab File: BF098140.D  
Acq: 30 Aug 2017 6:10

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 131860  
Ion Ratio Lower Upper  
152 100  
150 155.6 126.2 189.2  
115 66.0 52.2 78.2



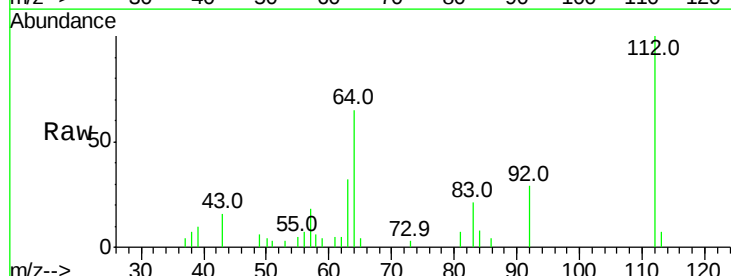
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



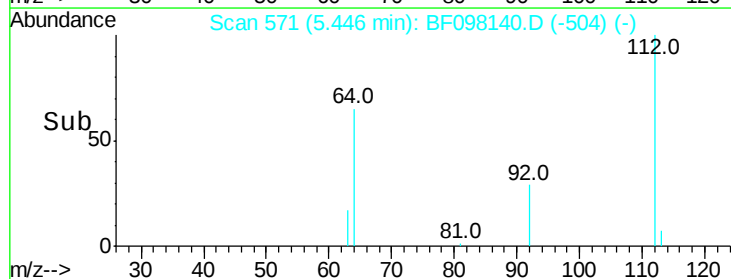
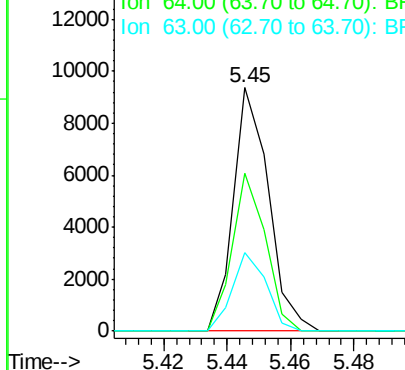
#5

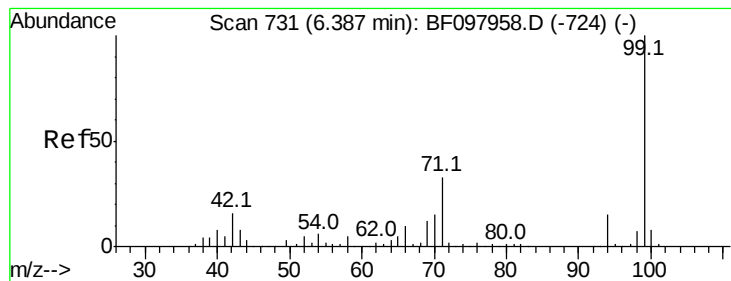
2-Fluorophenol  
Concen: 0.825 ng  
RT: 5.45 min Scan# 571  
Delta R.T. 0.09 min  
Lab File: BF098140.D  
Acq: 30 Aug 2017 6:10

Tgt Ion:112 Resp: 7153  
Ion Ratio Lower Upper  
112 100  
64 64.9 46.0 69.0  
63 32.1 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: 0.228 ng

RT: 6.39 min Scan# 732

Delta R.T. 0.01 min

Lab File: BF098140.D

Acq: 30 Aug 2017 6:10

Instrument :

BNA\_F

ClientSampleId :

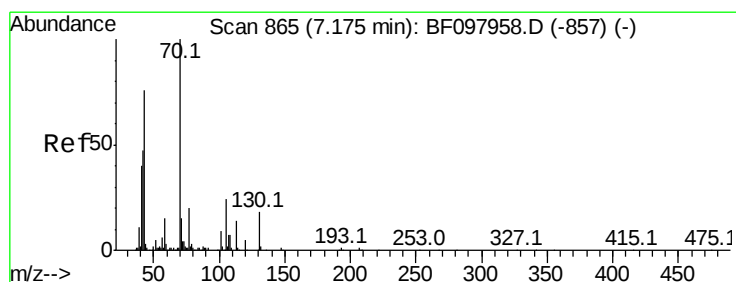
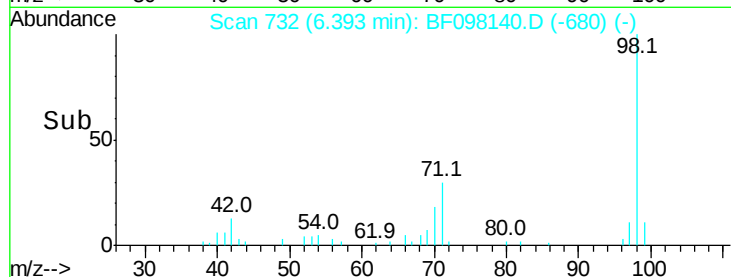
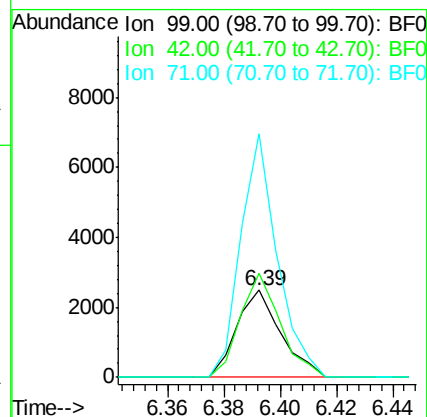
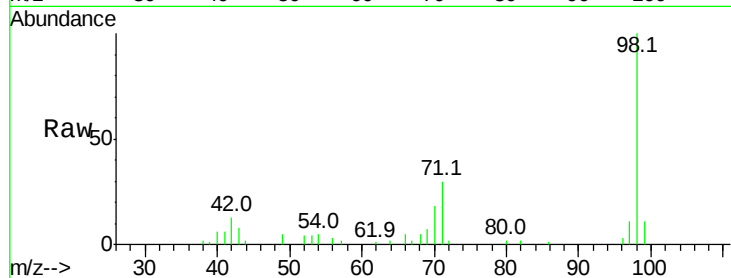
Tot Ion: 99 Resp: 2690

Ion Ratio Lower Upper

99 100

42 119.6 13.5 20.3#

71 280.0 24.5 36.7#



#19

n-Nitroso-di-n-propylamine

Concen: 12.540 ng

RT: 7.30 min Scan# 887

Delta R.T. 0.13 min

Lab File: BF098140.D

Acq: 30 Aug 2017 6:10

Tgt Ion: 70 Resp: 101113

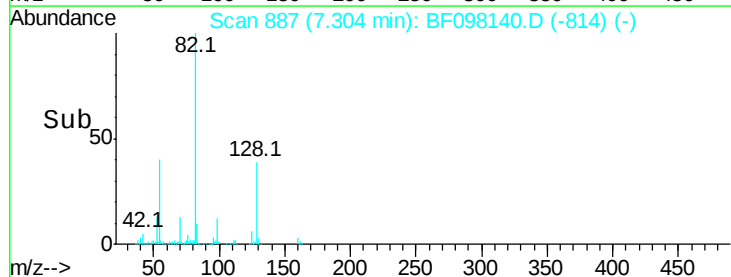
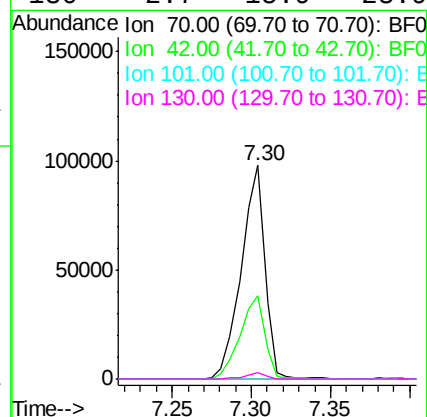
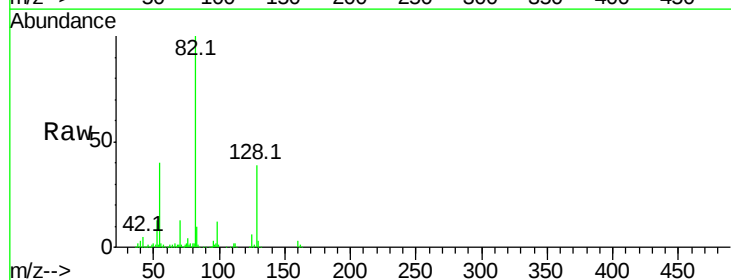
Ion Ratio Lower Upper

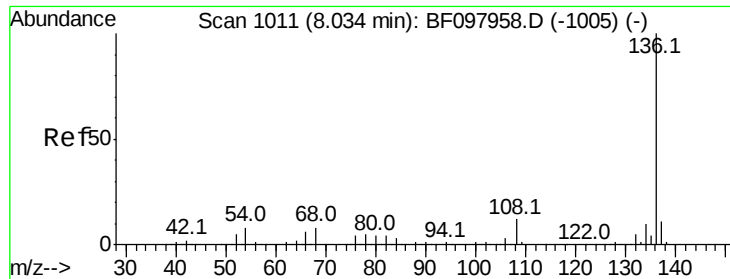
70 100

42 39.1 47.2 70.8#

101 0.0 7.2 10.8#

130 2.7 15.9 23.9#

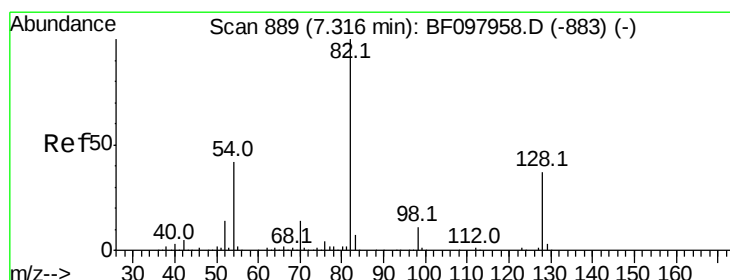
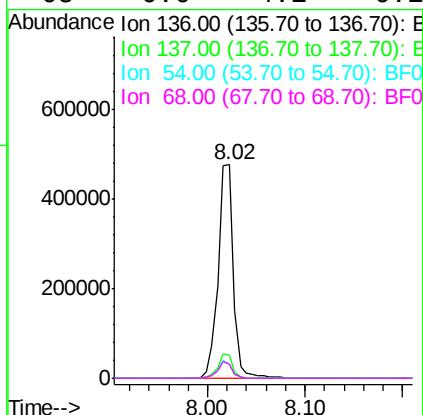
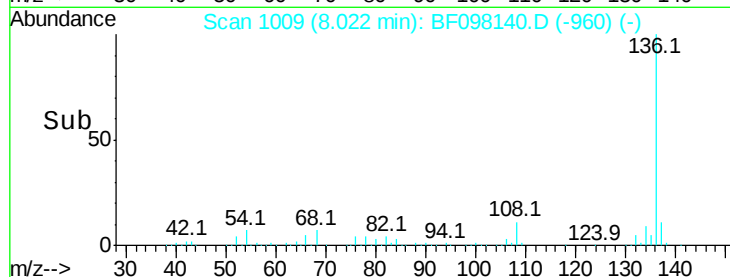
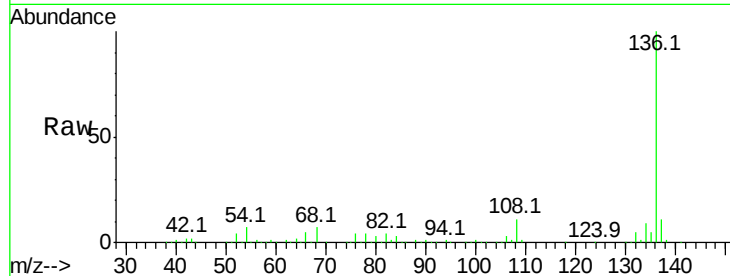




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.02 min Scan# 1009  
Delta R.T. -0.01 min  
Lab File: BF098140.D  
Acq: 30 Aug 2017 6:10

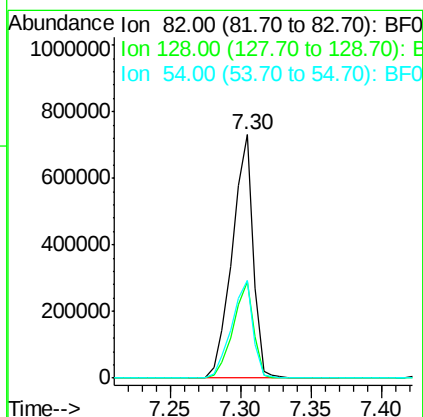
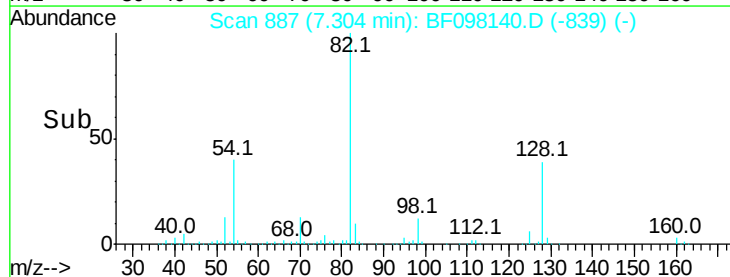
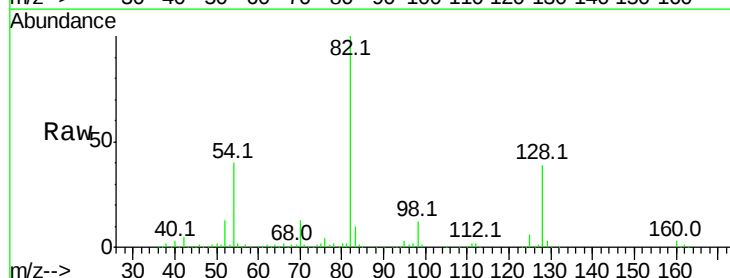
Instrument :  
BNA\_F  
ClientSampleId :

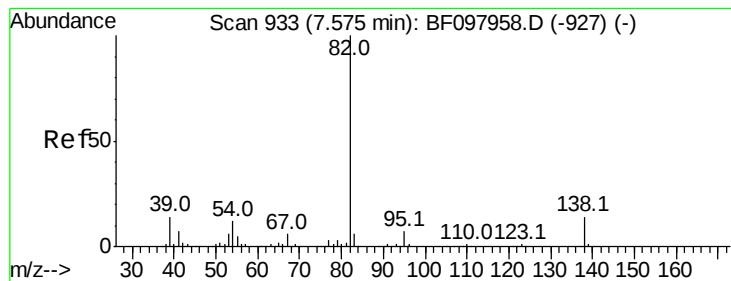
|             |              |
|-------------|--------------|
| Tot Ion:136 | Resp: 518924 |
| Ion Ratio   | Lower Upper  |
| 136 100     |              |
| 137 10.6    | 8.5 12.7     |
| 54 6.9      | 4.9 7.3      |
| 68 6.6      | 4.1 6.1#     |



#23  
Nitrobenzene-d5  
Concen: 78.864 ng  
RT: 7.30 min Scan# 887  
Delta R.T. -0.02 min  
Lab File: BF098140.D  
Acq: 30 Aug 2017 6:10

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 82 | Resp: | 753328 |
| Ion | Ratio   | Lower | Upper  |
| 82  | 100     |       |        |
| 128 | 39.5    | 34.0  | 51.0   |
| 54  | 40.1    | 42.2  | 63.2#  |





#25

Isophorone

Concen: 37.074 ng

RT: 7.30 min Scan# 887

Delta R.T. -0.28 min

Lab File: BF098140.D

Acq: 30 Aug 2017 6:10

Instrument :

BNA\_F

ClientSampled :

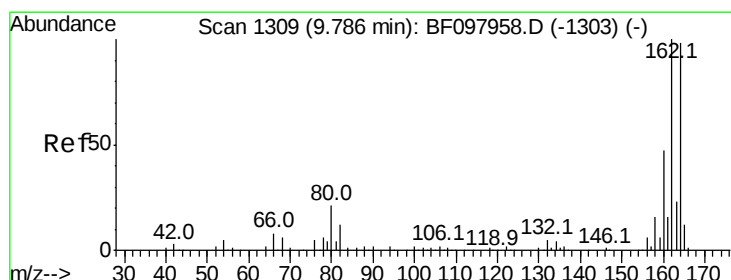
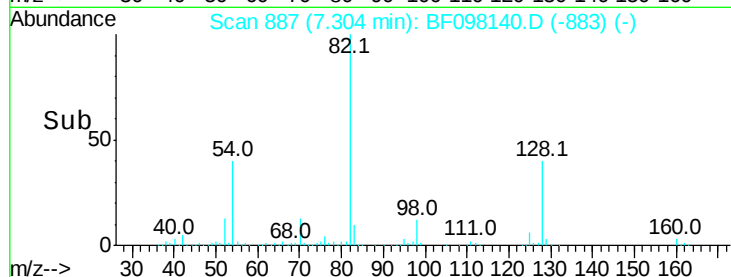
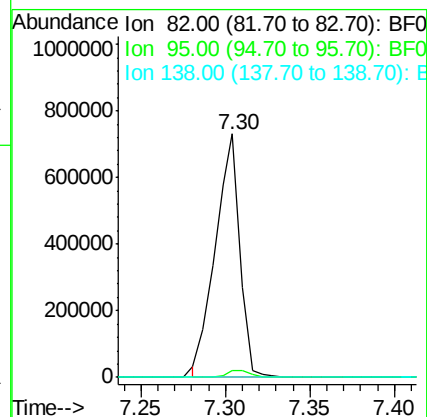
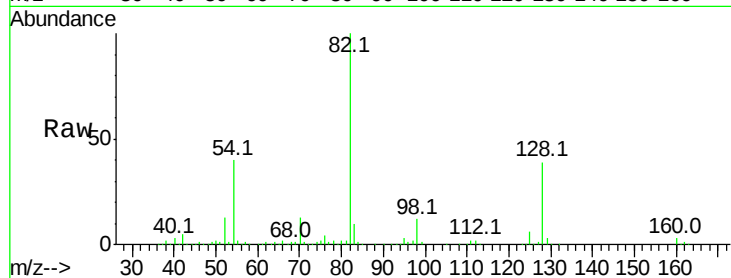
Tot Ion: 82 Resp: 736389

Ion Ratio Lower Upper

82 100

95 2.6 5.3 7.9#

138 0.0 13.1 19.7#



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.77 min Scan# 1306

Delta R.T. -0.02 min

Lab File: BF098140.D

Acq: 30 Aug 2017 6:10

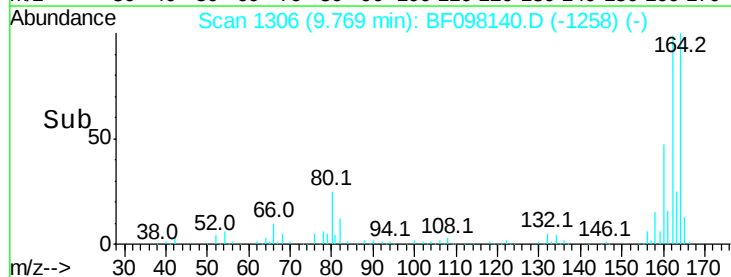
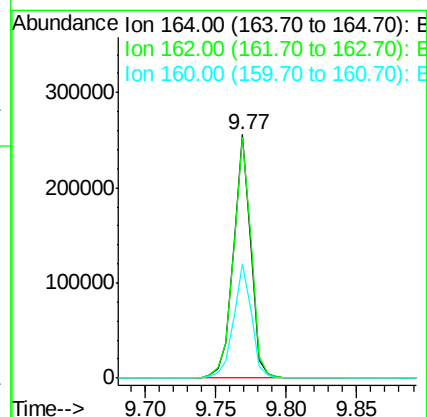
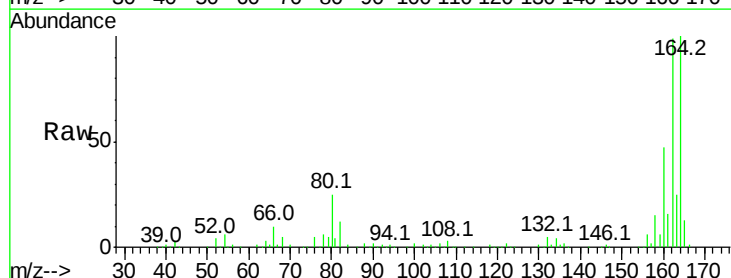
Tgt Ion: 164 Resp: 217105

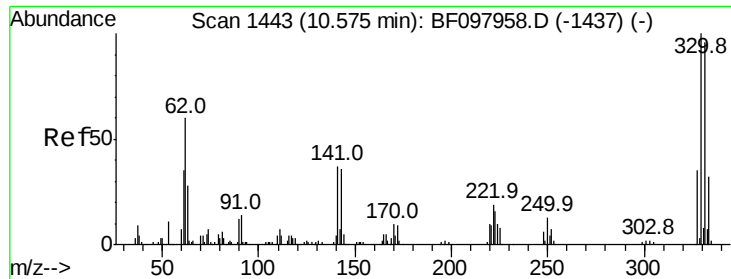
Ion Ratio Lower Upper

164 100

162 98.9 82.6 123.8

160 47.1 36.2 54.2

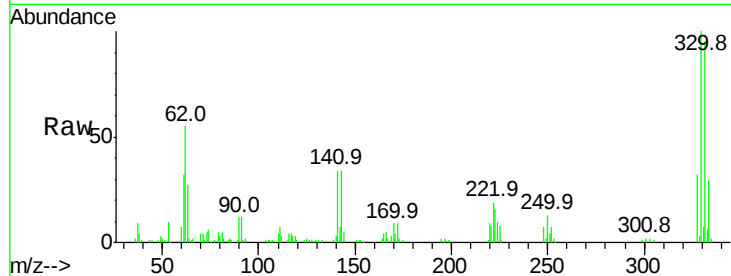




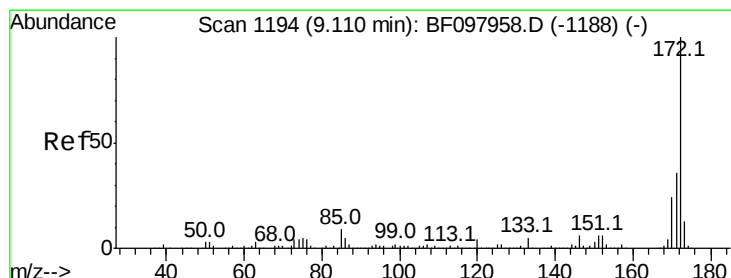
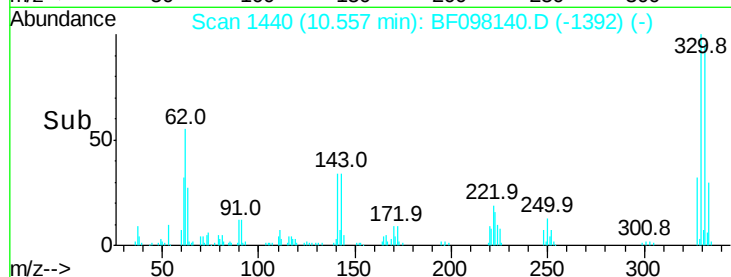
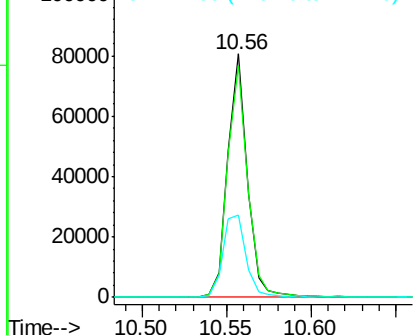
#41  
 2,4,6-Tribromophenol  
 Concen: 34.699 ng  
 RT: 10.56 min Scan# 1440  
 Delta R.T. -0.02 min  
 Lab File: BF098140.D  
 Acq: 30 Aug 2017 6:10

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:330 Resp: 65364  
 Ion Ratio Lower Upper  
 330 100  
 332 97.3 76.6 115.0  
 141 40.3 31.4 47.2

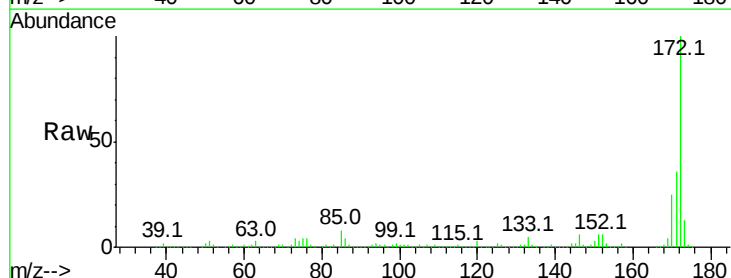


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

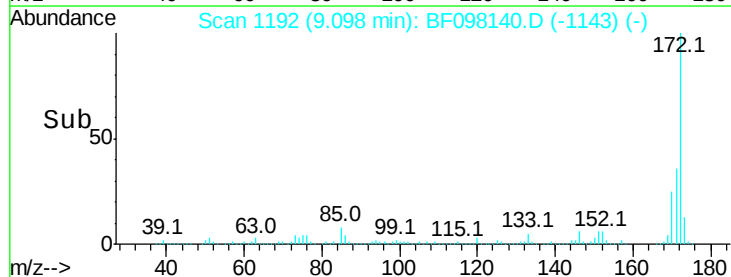
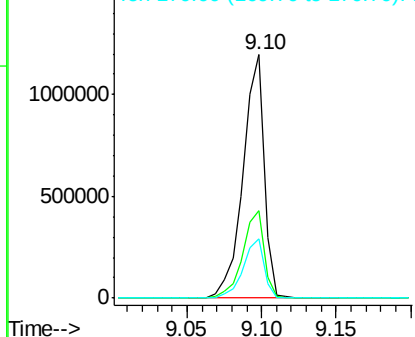


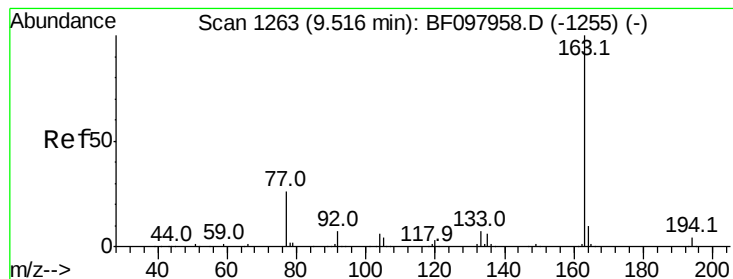
#44  
 2-Fluorobiphenyl  
 Concen: 79.819 ng  
 RT: 9.10 min Scan# 1192  
 Delta R.T. -0.01 min  
 Lab File: BF098140.D  
 Acq: 30 Aug 2017 6:10

Tgt Ion:172 Resp: 1179492  
 Ion Ratio Lower Upper  
 172 100  
 171 35.8 29.6 44.4  
 170 24.6 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: 3.651 ng

RT: 9.77 min Scan# 1306

Delta R.T. 0.25 min

Lab File: BF098140.D

Acq: 30 Aug 2017 6:10

Instrument :

BNA\_F

ClientSampleId :

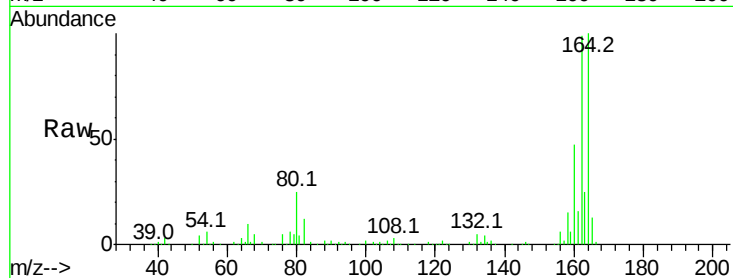
Tot Ion:163 Resp: 57934

Ion Ratio Lower Upper

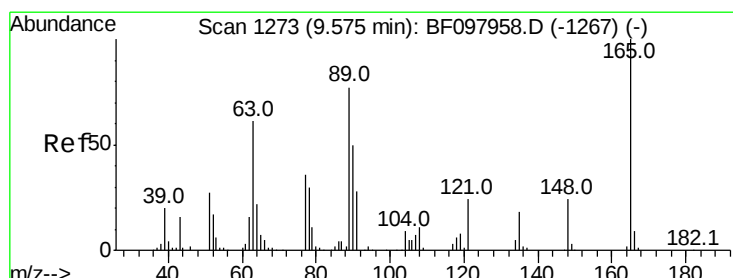
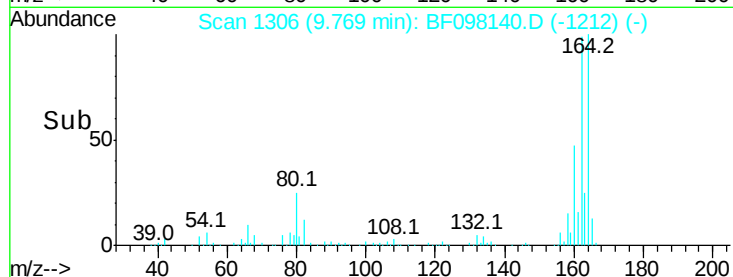
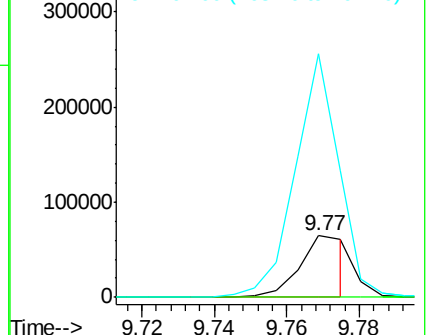
163 100

194 0.0 2.6 4.0#

164 396.4 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: 8.579 ng

RT: 9.77 min Scan# 1306

Delta R.T. 0.19 min

Lab File: BF098140.D

Acq: 30 Aug 2017 6:10

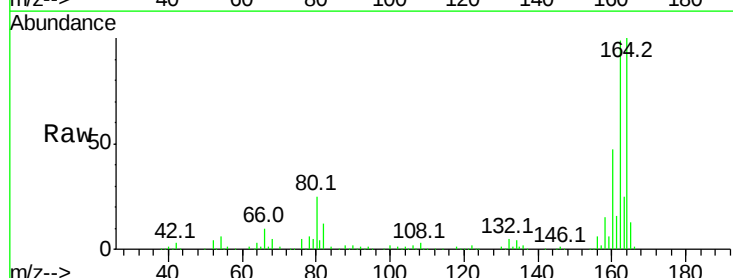
Tgt Ion:165 Resp: 27175

Ion Ratio Lower Upper

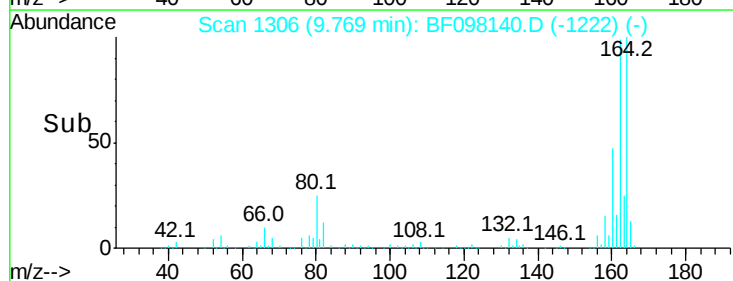
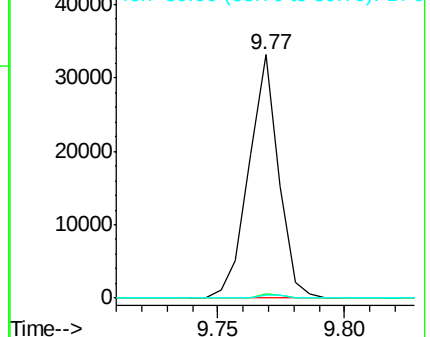
165 100

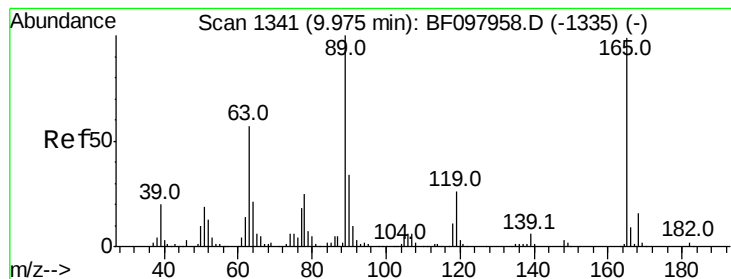
63 1.5 34.3 51.5#

89 1.3 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: 6.836 ng

RT: 9.77 min Scan# 1306

Delta R.T. -0.21 min

Lab File: BF098140.D

Acq: 30 Aug 2017 6:10

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:165 Resp: 27175

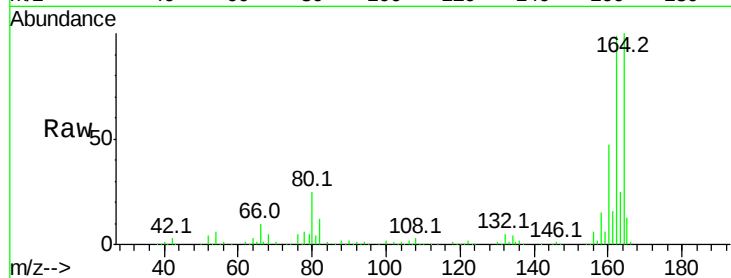
Ion Ratio Lower Upper

165 100

63 1.5 25.4 38.0#

89 1.3 46.4 69.6#

182 0.0 1.8 2.6#

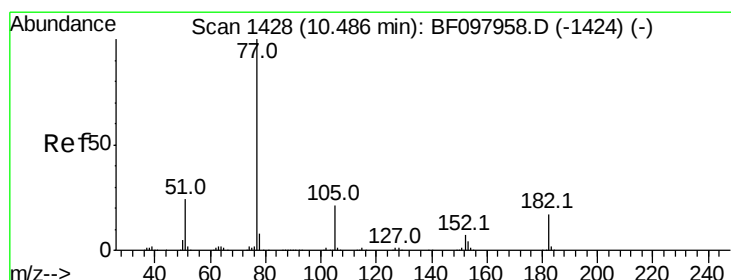
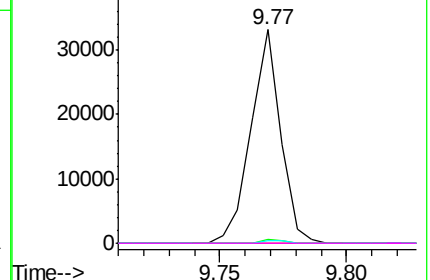
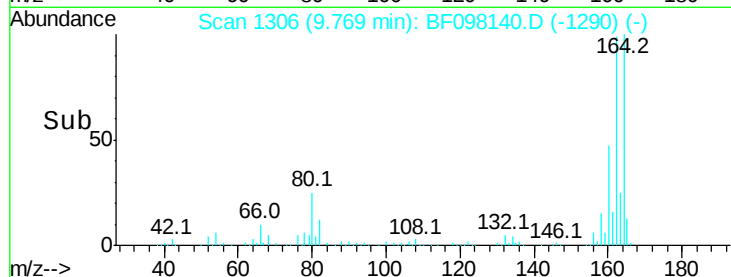


Abundance Ion 165.00 (164.70 to 165.70): E

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



#62

Azobenzene

Concen: 2.195 ng

RT: 10.37 min Scan# 1409

Delta R.T. -0.11 min

Lab File: BF098140.D

Acq: 30 Aug 2017 6:10

Tgt Ion: 77 Resp: 43274

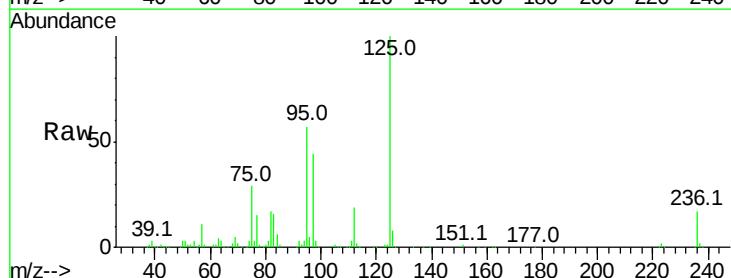
Ion Ratio Lower Upper

77 100

182 0.0 0.1 40.1#

105 10.2 3.6 43.6

51 22.9 9.4 49.4

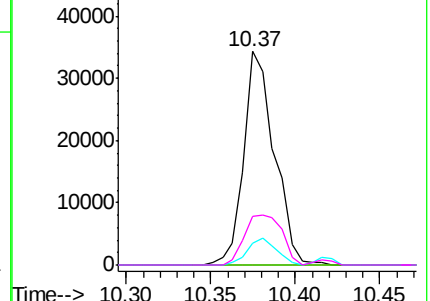
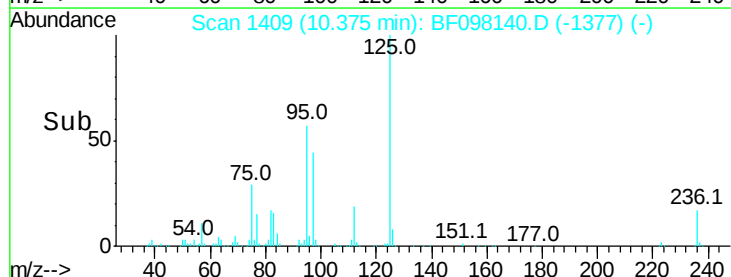


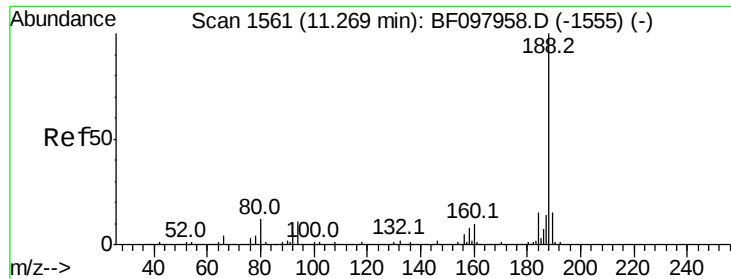
Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 182.00 (181.70 to 182.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 51.00 (50.70 to 51.70): BF0





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.25 min Scan# 1558

Delta R.T. -0.01 min

Lab File: BF098140.D

Acq: 30 Aug 2017 6:10

Instrument :

BNA\_F

ClientSampled :

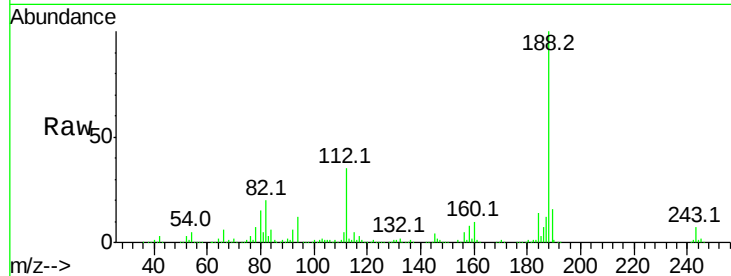
Tot Ion:188 Resp: 333030

Ion Ratio Lower Upper

188 100

94 12.3 9.4 14.2

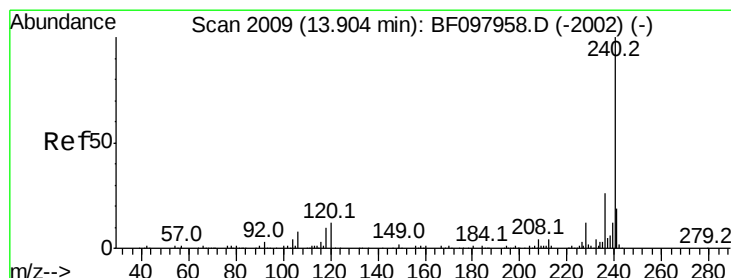
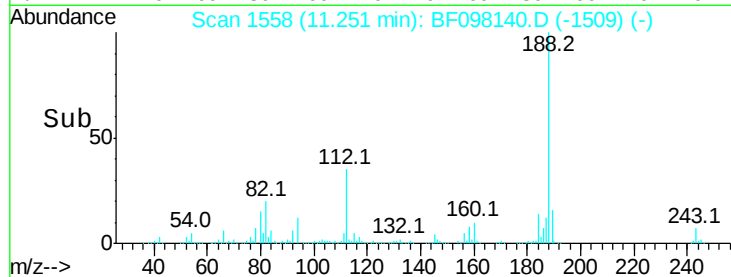
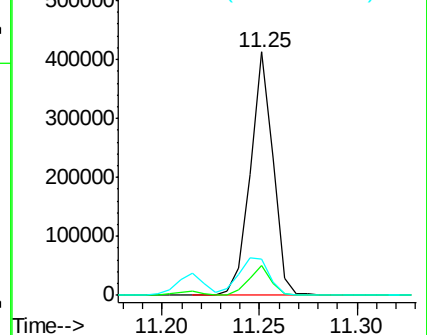
80 14.6 10.2 15.2



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



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.89 min Scan# 2006

Delta R.T. -0.01 min

Lab File: BF098140.D

Acq: 30 Aug 2017 6:10

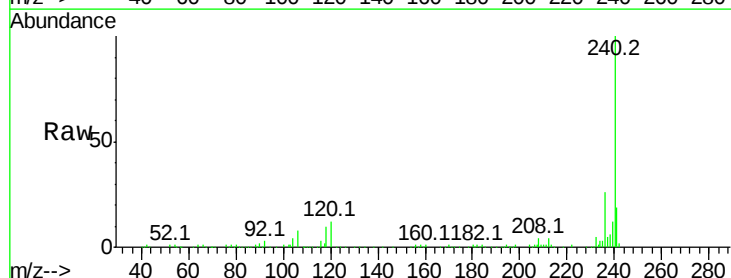
Tgt Ion:240 Resp: 272496

Ion Ratio Lower Upper

240 100

120 11.9 5.8 8.8#

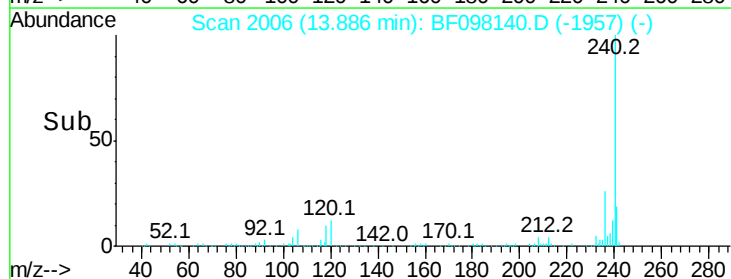
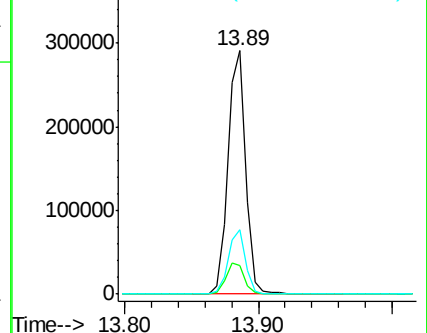
236 26.5 20.5 30.7

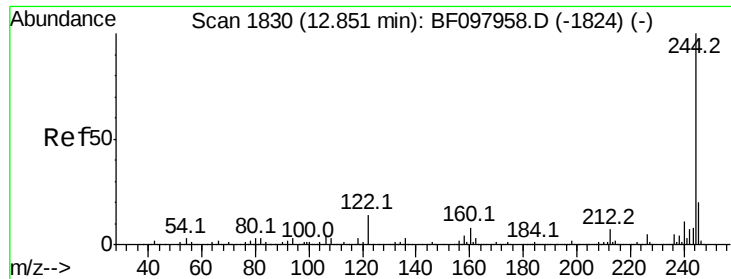


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

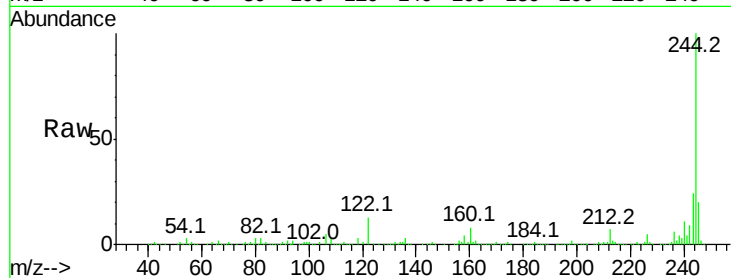




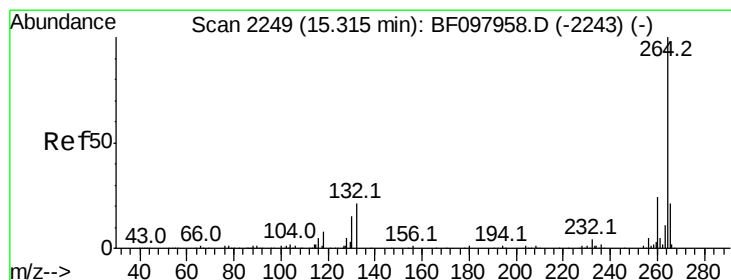
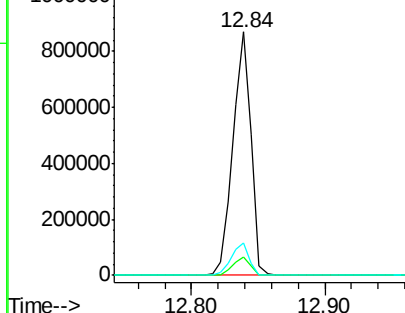
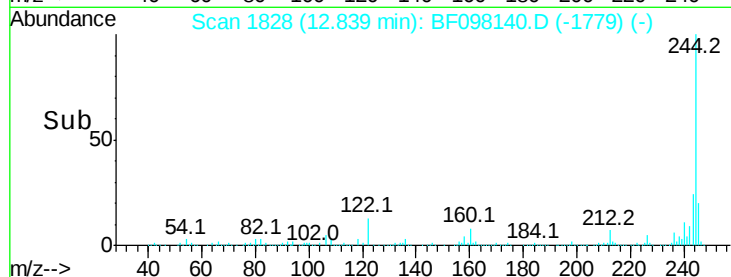
#78  
 Terphenyl-d14  
 Concen: 63.298 ng  
 RT: 12.84 min Scan# 1828  
 Delta R.T. -0.01 min  
 Lab File: BF098140.D  
 Acq: 30 Aug 2017 6:10

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.4   | 6.0   | 9.0   |
| 122     | 13.5  | 10.3  | 15.5  |

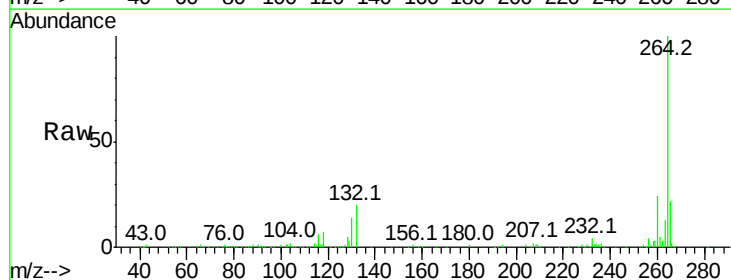


Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.30 min Scan# 2247  
 Delta R.T. -0.01 min  
 Lab File: BF098140.D  
 Acq: 30 Aug 2017 6:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.5  | 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

