

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082917\  
 Data File : BF098116.D  
 Acq On : 29 Aug 2017 17:43  
 Operator : SJ/JU  
 Sample : I4988-10  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 30 02:59:31 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

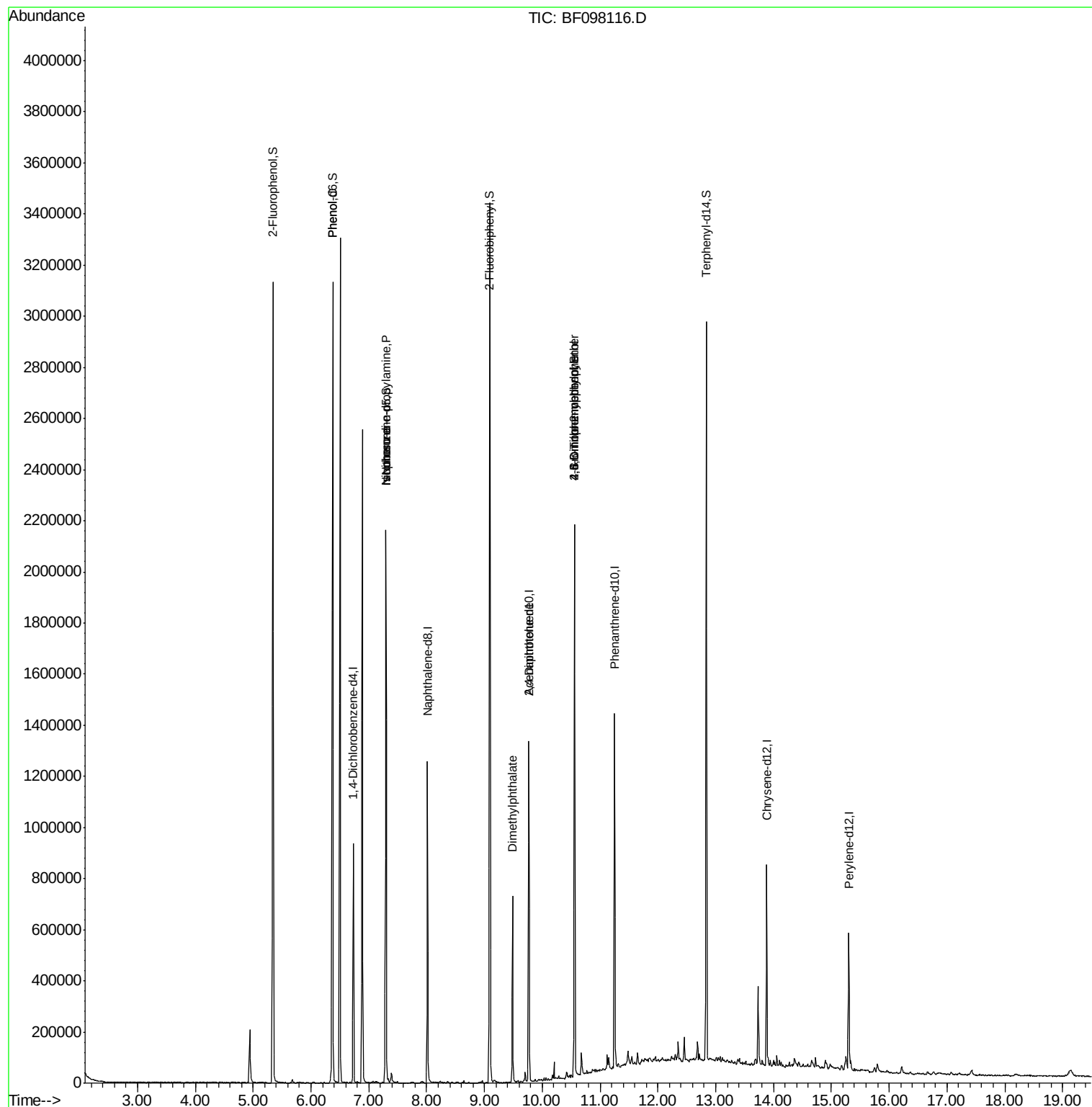
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.73  | 152  | 131175   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 8.02  | 136  | 536863   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10           | 9.77  | 164  | 246513   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 11.25 | 188  | 452927   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 13.88 | 240  | 261396   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12               | 15.30 | 264  | 240089   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.35  | 112  | 1000848  | 116.06 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.37  | 99   | 1374292  | 117.29 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.30  | 82   | 867420   | 87.77  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 10.56 | 330  | 272837   | 127.56 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 9.09  | 172  | 1227885  | 73.18  | ng    | -0.02    |
| 78) Terphenyl-d14              | 12.84 | 244  | 920816   | 73.46  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 6.38  | 94   | 38124    | 2.782  | ng    | # 69     |
| 19) n-Nitroso-di-n-propylamine | 7.30  | 70   | 116746   | 14.555 | ng    | # 70     |
| 25) Isophorone                 | 7.30  | 82   | 853473   | 41.533 | ng    | # 67     |
| 49) Dimethylphthalate          | 9.49  | 163  | 257977   | 14.317 | ng    | # 99     |
| 56) 2,4-Dinitrotoluene         | 9.77  | 165  | 32122    | 7.116  | ng    | # 33     |
| 64) 4,6-Dinitro-2-methylphenol | 10.56 | 198  | 565      | 8.540  | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.56 | 248  | 17206    | 3.658  | ng    | # 1      |

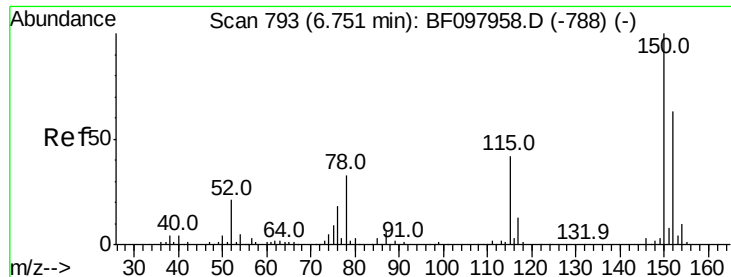
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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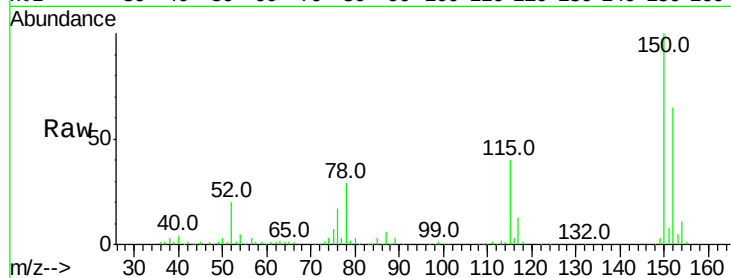


#1

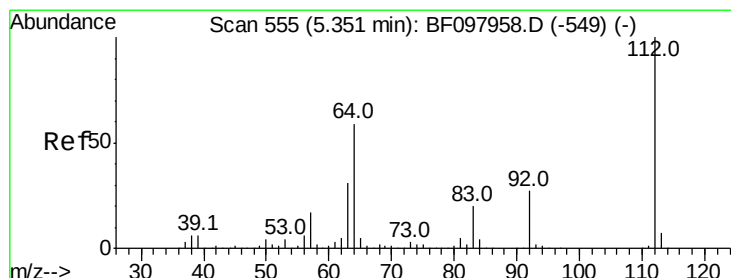
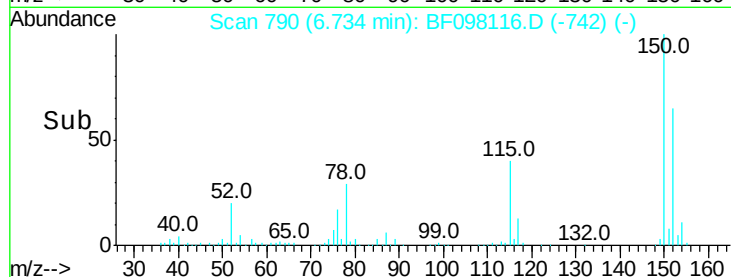
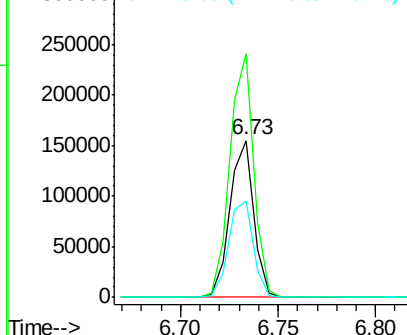
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.73 min Scan# 790  
 Delta R.T. -0.02 min  
 Lab File: BF098116.D  
 Acq: 29 Aug 2017 17:43

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:152 Resp: 131175  
 Ion Ratio Lower Upper  
 152 100  
 150 154.9 126.2 189.2  
 115 61.4 52.2 78.2



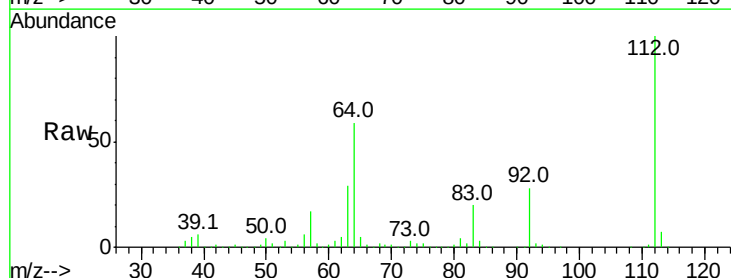
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



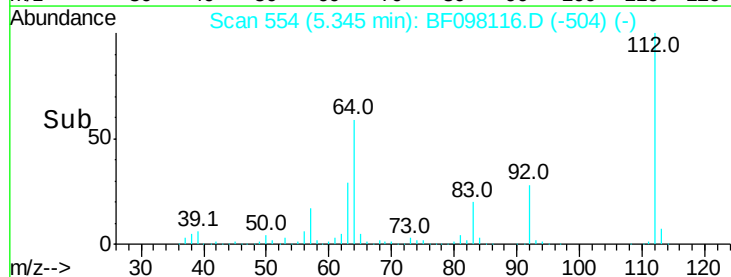
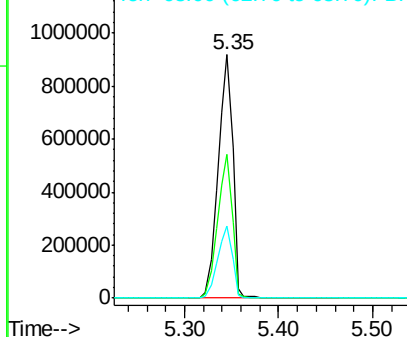
#5

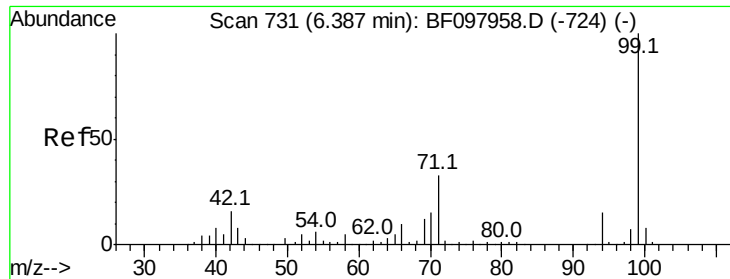
2-Fluorophenol  
 Concen: 116.056 ng  
 RT: 5.35 min Scan# 554  
 Delta R.T. -0.01 min  
 Lab File: BF098116.D  
 Acq: 29 Aug 2017 17:43

Tgt Ion:112 Resp: 1000848  
 Ion Ratio Lower Upper  
 112 100  
 64 58.9 46.0 69.0  
 63 29.5 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: 117.287 ng

RT: 6.37 min Scan# 729

Delta R.T. -0.01 min

Lab File: BF098116.D

Acq: 29 Aug 2017 17:43

Instrument :

BNA\_F

ClientSampleId :

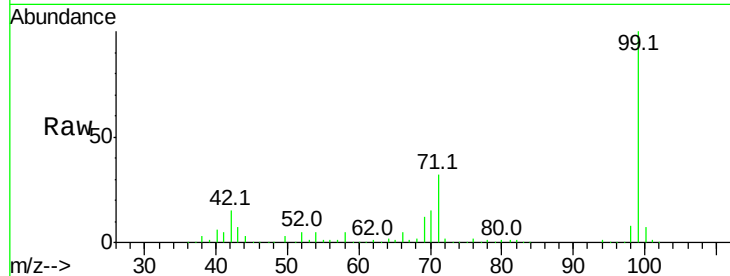
Tot Ion: 99 Resp: 1374292

Ion Ratio Lower Upper

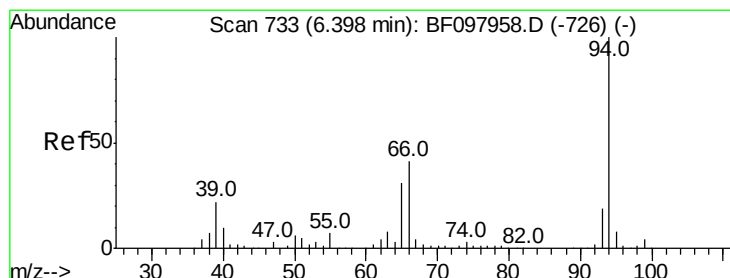
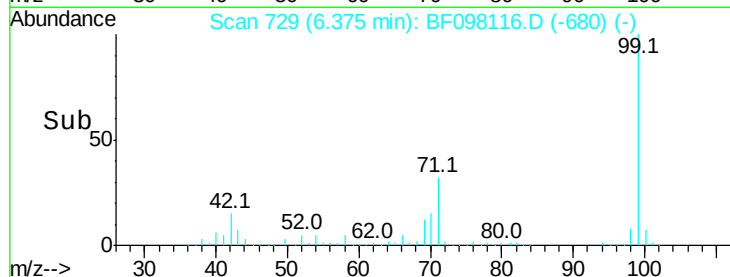
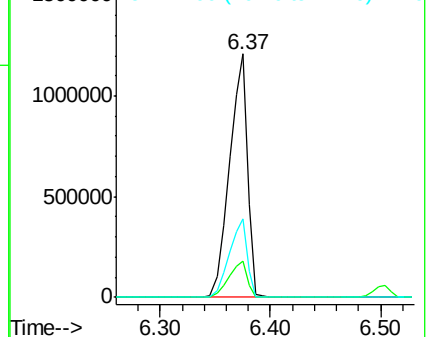
99 100

42 14.9 13.5 20.3

71 32.1 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



#10

Phenol

Concen: 2.782 ng

RT: 6.38 min Scan# 730

Delta R.T. -0.02 min

Lab File: BF098116.D

Acq: 29 Aug 2017 17:43

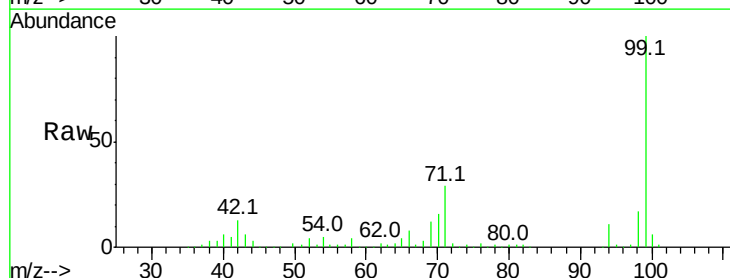
Tgt Ion: 94 Resp: 38124

Ion Ratio Lower Upper

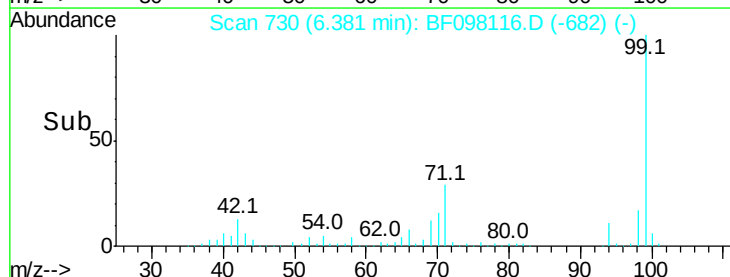
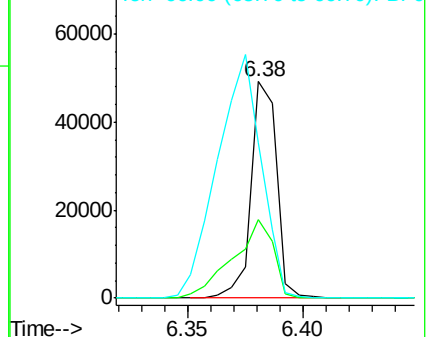
94 100

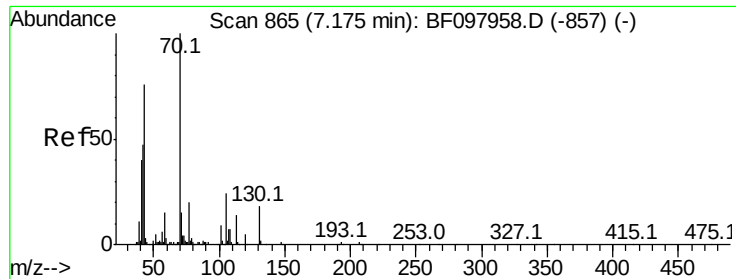
65 36.3 9.9 49.9

66 72.0 23.1 63.1#



Abundance Ion 94.00 (93.70 to 94.70): BF0  
Ion 65.00 (64.70 to 65.70): BF0  
Ion 66.00 (65.70 to 66.70): BF0

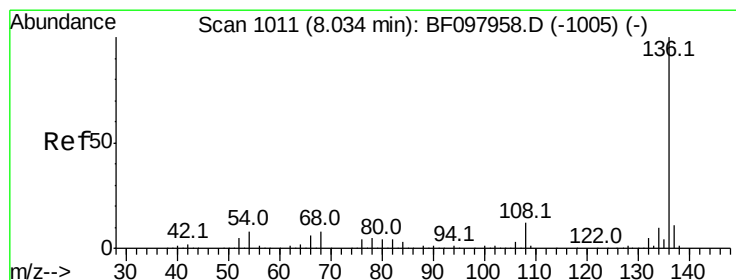
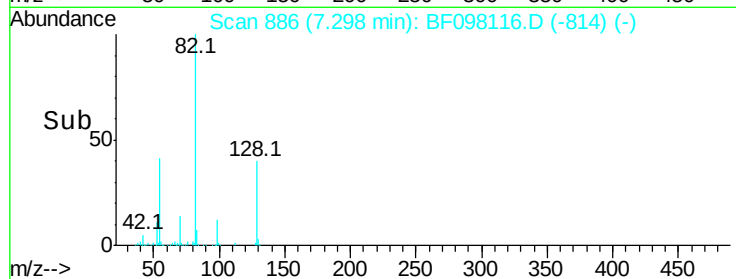
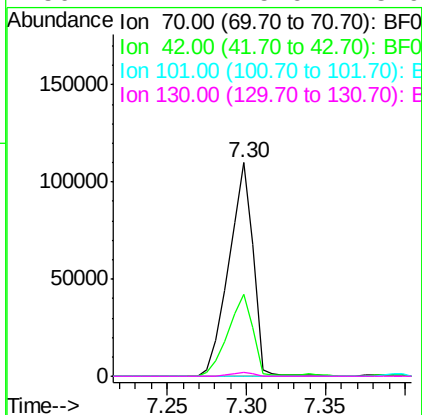
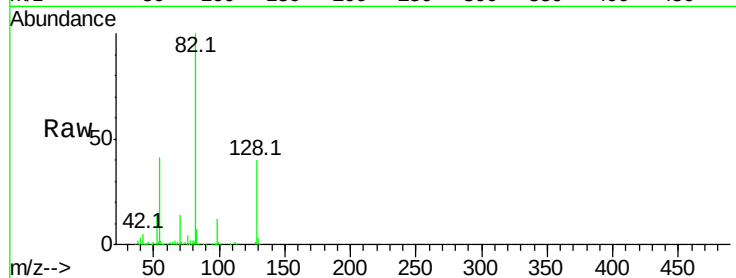




#19  
n-Nitroso-di-n-propylamine  
Concen: 14.555 ng  
RT: 7.30 min Scan# 886  
Delta R.T. 0.12 min  
Lab File: BF098116.D  
Acq: 29 Aug 2017 17:43

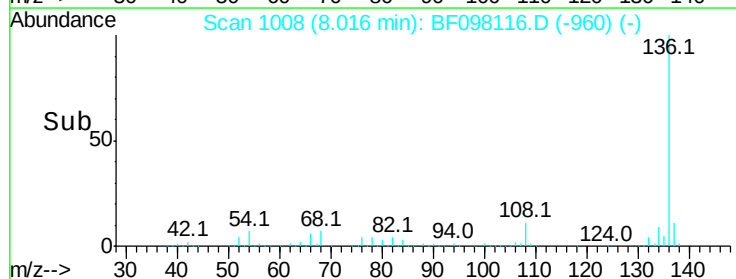
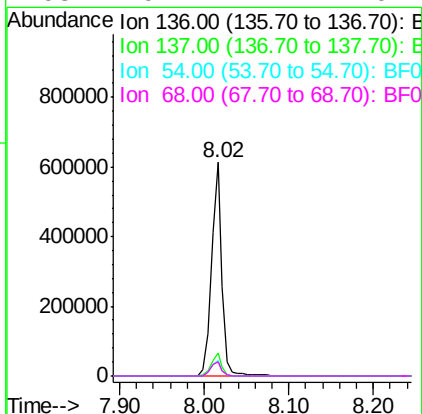
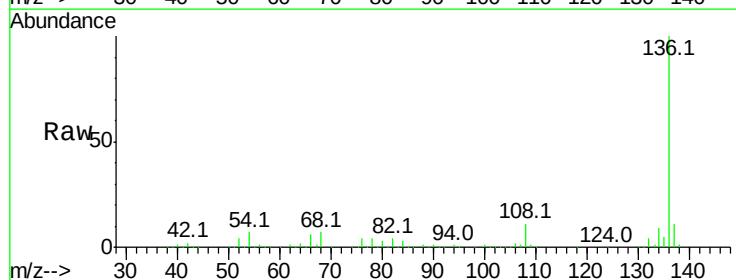
Instrument :  
BNA\_F  
ClientSampleId :

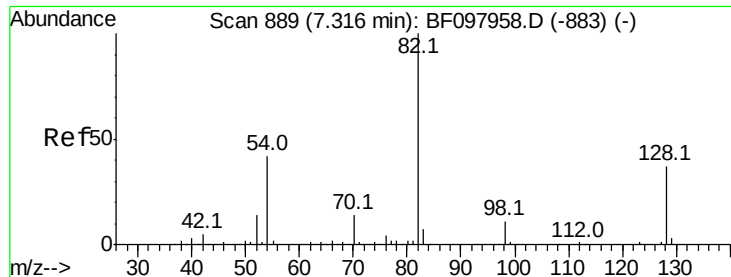
Tot Ion: 70 Resp: 116746  
Ion Ratio Lower Upper  
70 100  
42 38.7 47.2 70.8#  
101 0.0 7.2 10.8#  
130 1.7 15.9 23.9#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.02 min Scan# 1008  
Delta R.T. -0.02 min  
Lab File: BF098116.D  
Acq: 29 Aug 2017 17:43

Tgt Ion: 136 Resp: 536863  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.5 12.7  
54 7.1 4.9 7.3  
68 6.7 4.1 6.1#

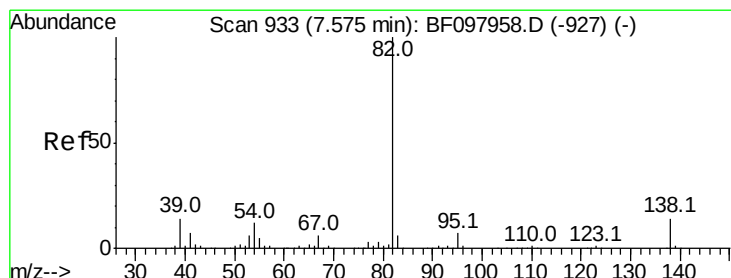
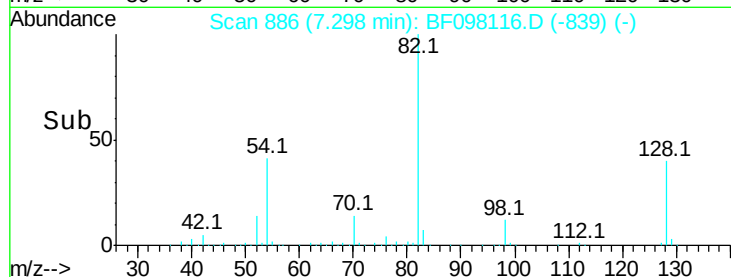
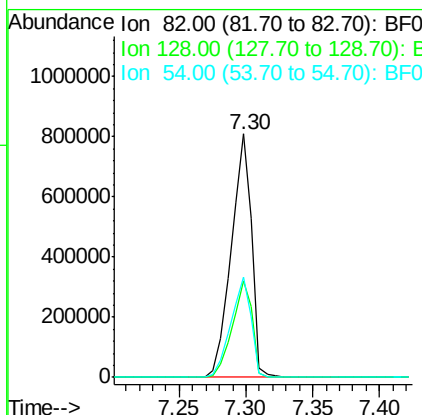
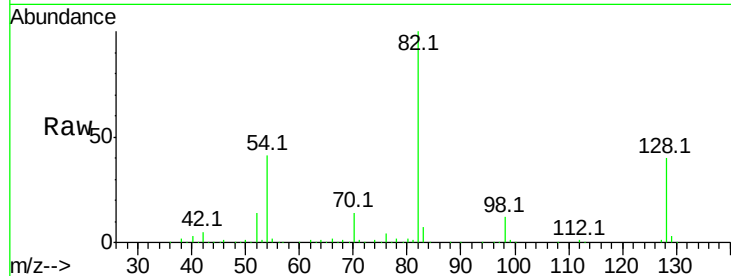




#23  
 Nitrobenzene-d5  
 Concen: 87.773 ng  
 RT: 7.30 min Scan# 886  
 Delta R.T. -0.02 min  
 Lab File: BF098116.D  
 Acq: 29 Aug 2017 17:43

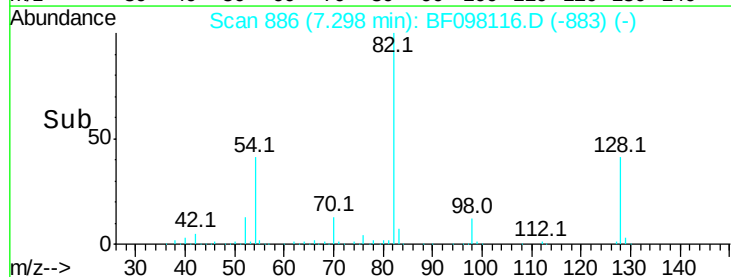
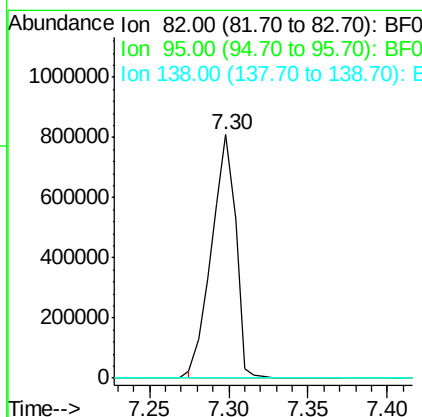
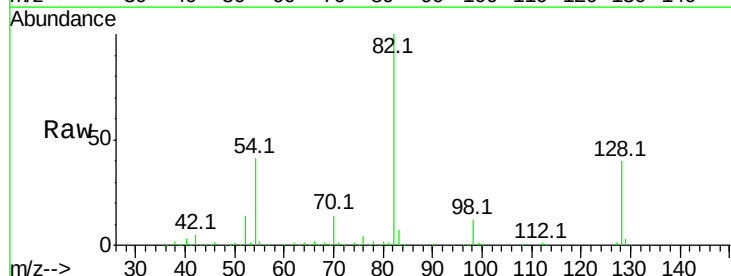
Instrument :  
 BNA\_F  
 ClientSampleId :

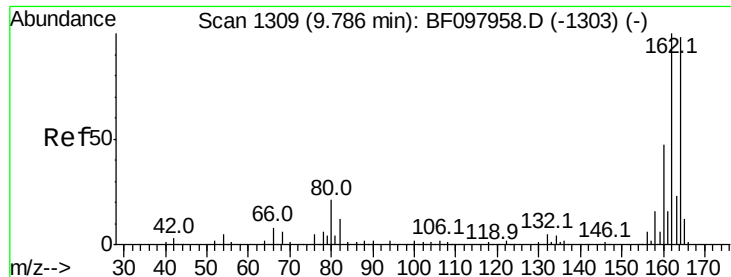
Tot Ion: 82 Resp: 867420  
 Ion Ratio Lower Upper  
 82 100  
 128 39.5 34.0 51.0  
 54 41.4 42.2 63.2#



#25  
 Isophorone  
 Concen: 41.533 ng  
 RT: 7.30 min Scan# 886  
 Delta R.T. -0.28 min  
 Lab File: BF098116.D  
 Acq: 29 Aug 2017 17:43

Tgt Ion: 82 Resp: 853473  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.3 7.9#  
 138 0.0 13.1 19.7#

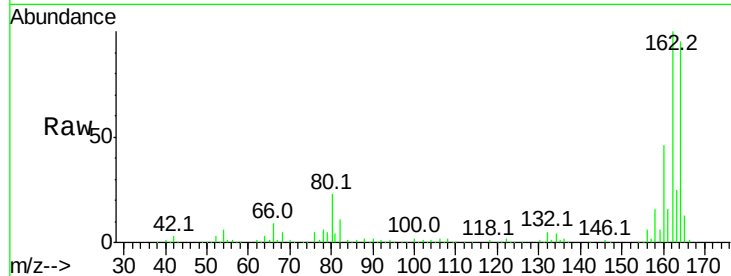




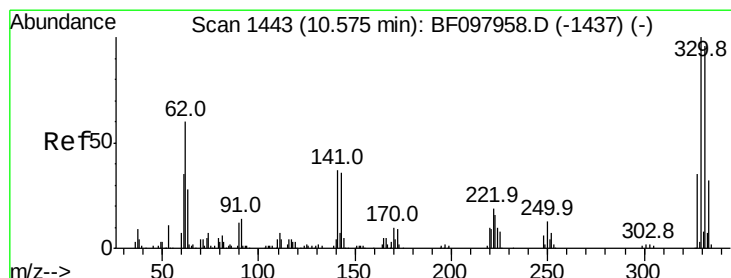
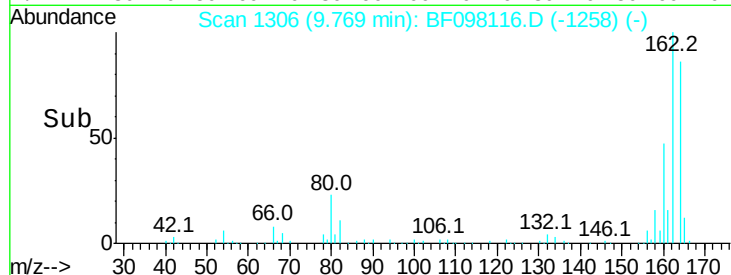
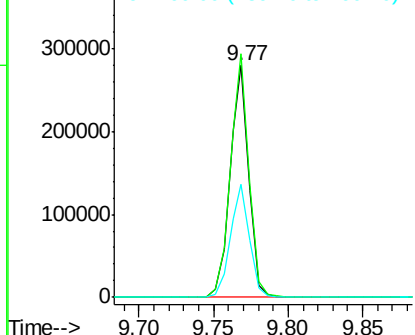
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.77 min Scan# 1306  
Delta R.T. -0.02 min  
Lab File: BF098116.D  
Acq: 29 Aug 2017 17:43

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:164 Resp: 246513  
Ion Ratio Lower Upper  
164 100  
162 105.2 82.6 123.8  
160 48.9 36.2 54.2

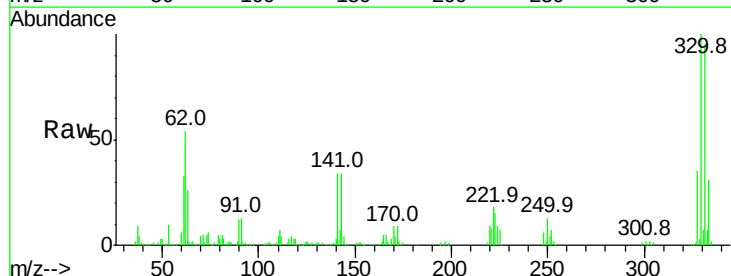


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

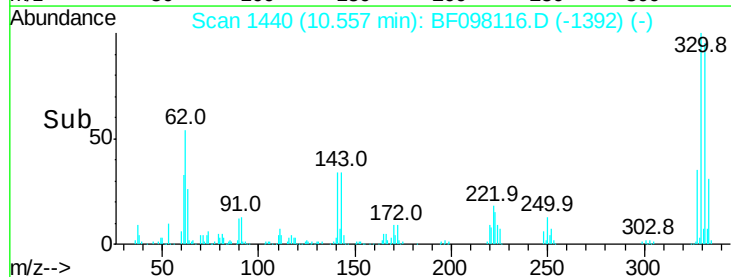
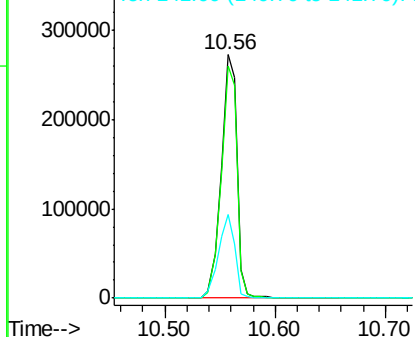


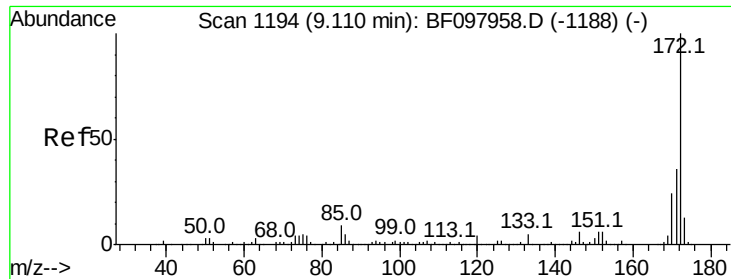
#41  
2,4,6-Tribromophenol  
Concen: 127.559 ng  
RT: 10.56 min Scan# 1440  
Delta R.T. -0.02 min  
Lab File: BF098116.D  
Acq: 29 Aug 2017 17:43

Tgt Ion:330 Resp: 272837  
Ion Ratio Lower Upper  
330 100  
332 96.2 76.6 115.0  
141 35.4 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

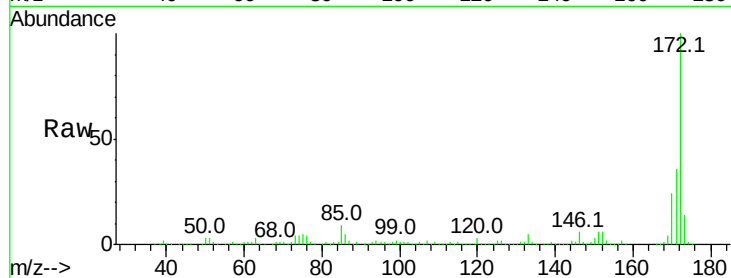




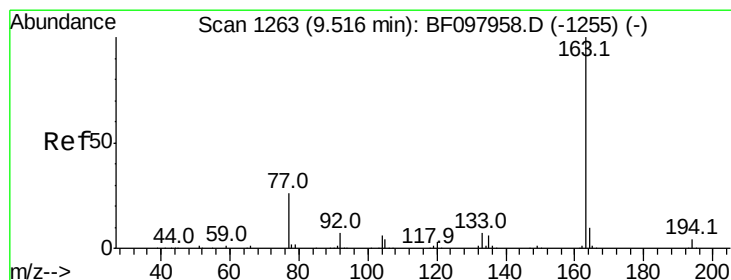
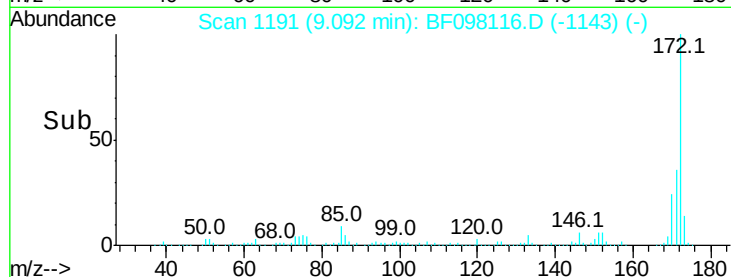
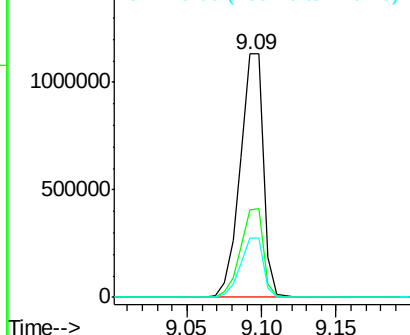
#44  
2-Fluorobiphenyl  
Concen: 73.181 ng  
RT: 9.09 min Scan# 1191  
Delta R.T. -0.02 min  
Lab File: BF098116.D  
Acq: 29 Aug 2017 17:43

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 1227885  
Ion Ratio Lower Upper  
172 100  
171 36.1 29.6 44.4  
170 24.5 19.8 29.8

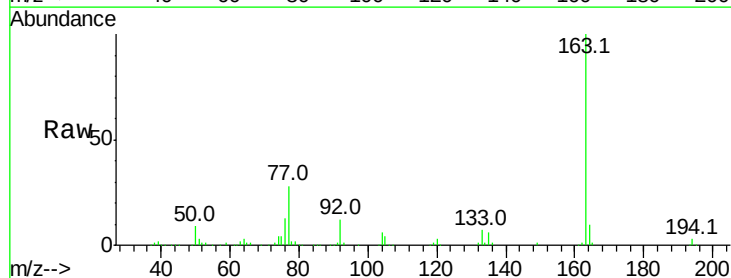


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

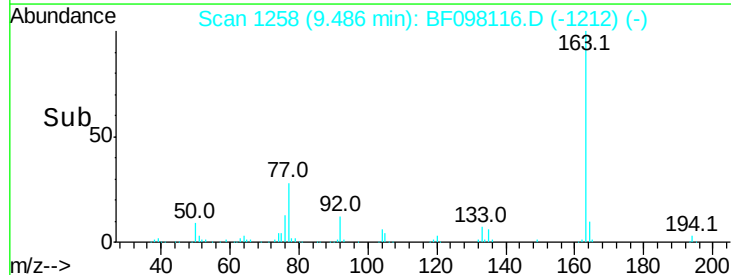
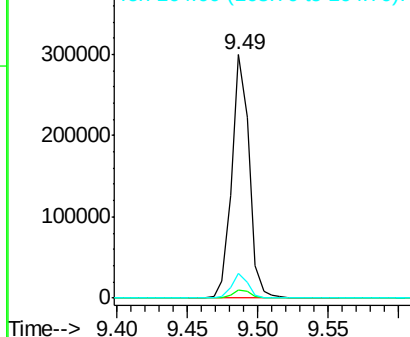


#49  
Dimethylphthalate  
Concen: 14.317 ng  
RT: 9.49 min Scan# 1258  
Delta R.T. -0.03 min  
Lab File: BF098116.D  
Acq: 29 Aug 2017 17:43

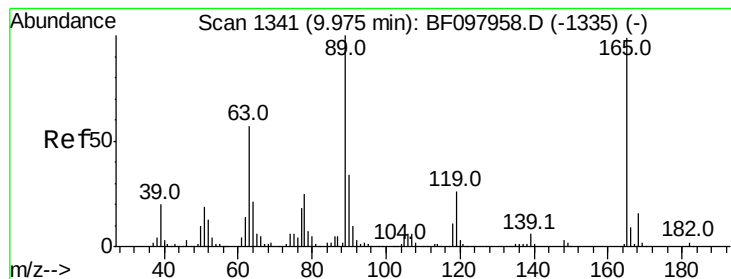
Tgt Ion:163 Resp: 257977  
Ion Ratio Lower Upper  
163 100  
194 3.4 2.6 4.0  
164 10.2 8.4 12.6



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







#56

2,4-Dinitrotoluene

Concen: 7.116 ng

RT: 9.77 min Scan# 1306

Delta R.T. -0.21 min

Lab File: BF098116.D

Acq: 29 Aug 2017 17:43

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:165 Resp: 32122

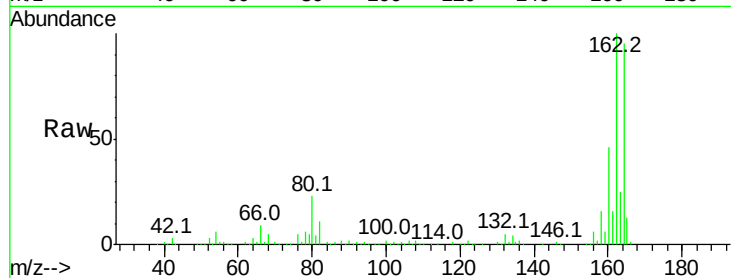
Ion Ratio Lower Upper

165 100

63 1.3 25.4 38.0#

89 1.7 46.4 69.6#

182 0.0 1.8 2.6#

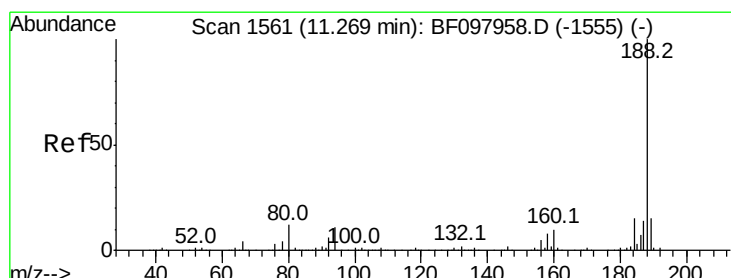
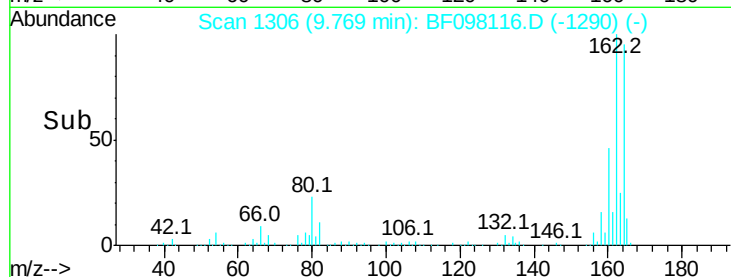
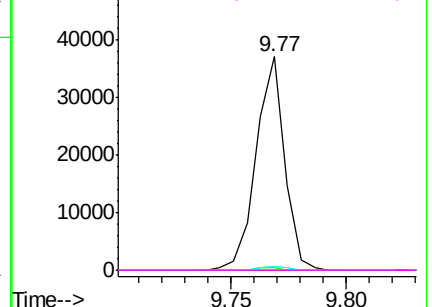


Abundance Ion 165.00 (164.70 to 165.70): E

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: BF098116.D

Acq: 29 Aug 2017 17:43

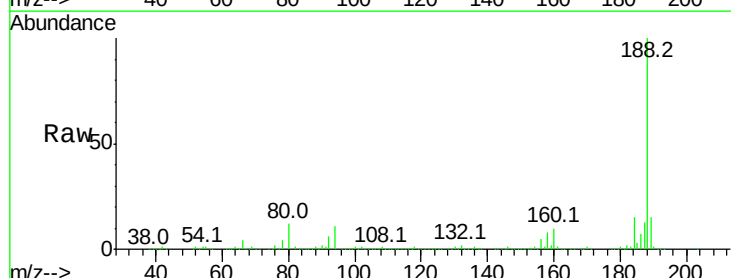
Tgt Ion:188 Resp: 452927

Ion Ratio Lower Upper

188 100

94 11.3 9.4 14.2

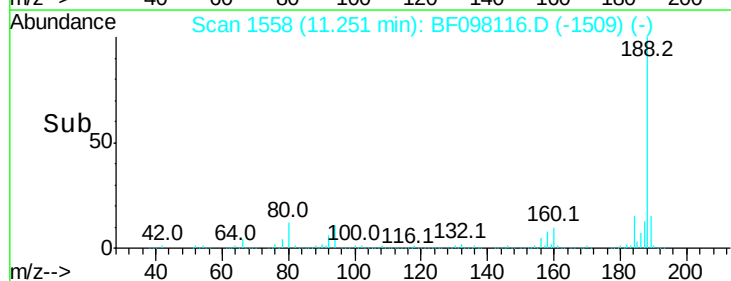
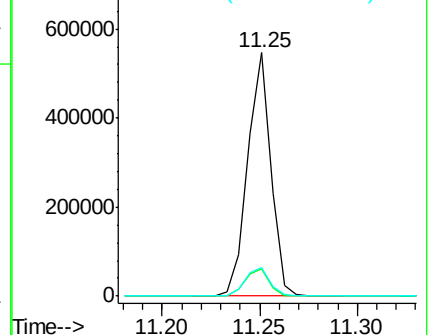
80 12.0 10.2 15.2

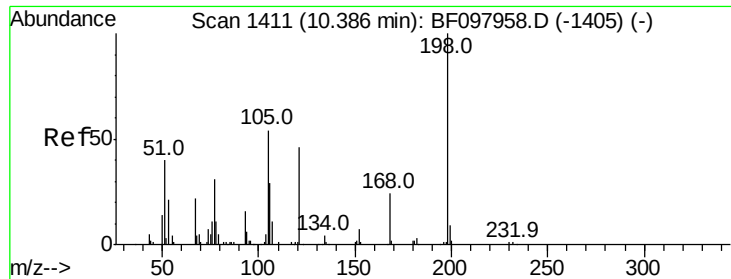


Abundance Ion 188.00 (187.70 to 188.70): E

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: 8.540 ng

RT: 10.56 min Scan# 1440

Delta R.T. 0.18 min

Lab File: BF098116.D

Acq: 29 Aug 2017 17:43

Instrument :

BNA\_F

ClientSampleId :

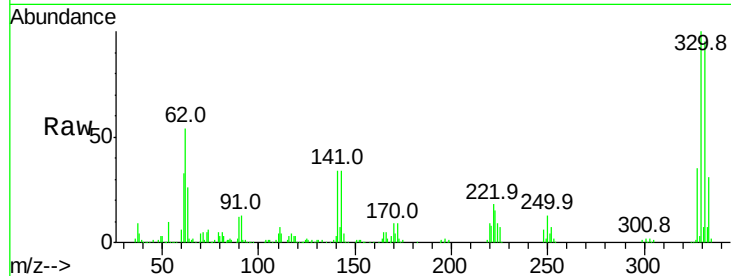
Tot Ion:198 Resp: 565

Ion Ratio Lower Upper

198 100

51 192.3 53.2 93.2#

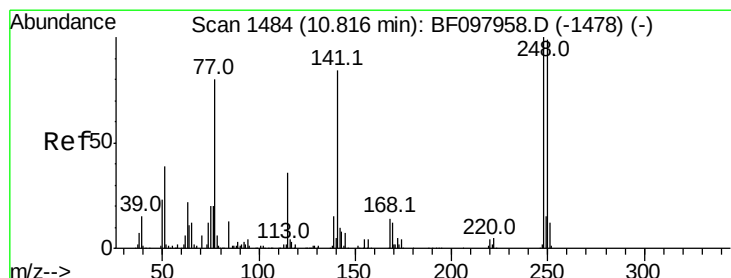
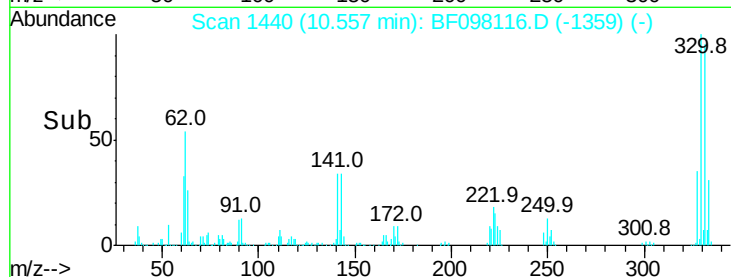
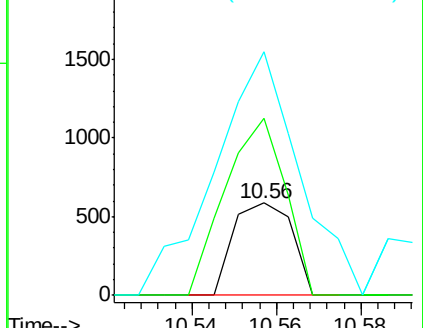
105 264.0 45.8 85.8#



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: 3.658 ng

RT: 10.56 min Scan# 1440

Delta R.T. -0.26 min

Lab File: BF098116.D

Acq: 29 Aug 2017 17:43

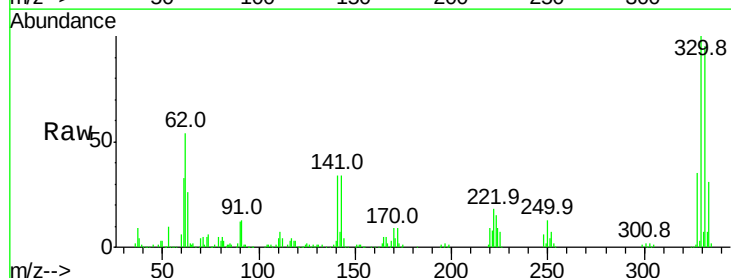
Tgt Ion:248 Resp: 17206

Ion Ratio Lower Upper

248 100

250 205.9 76.8 115.2#

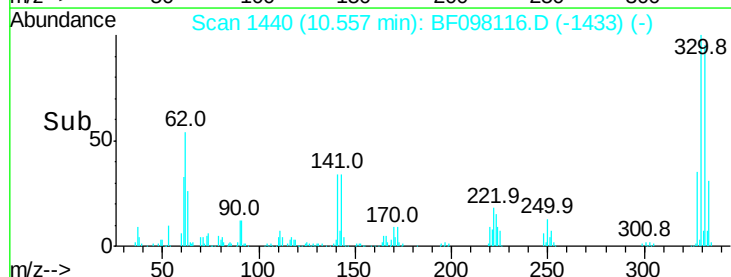
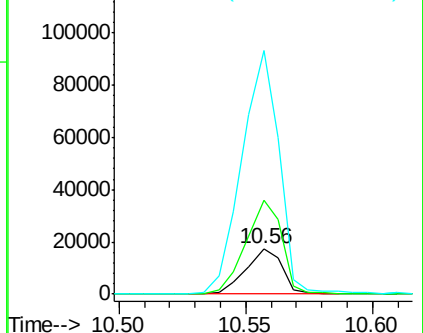
141 533.0 68.6 103.0#

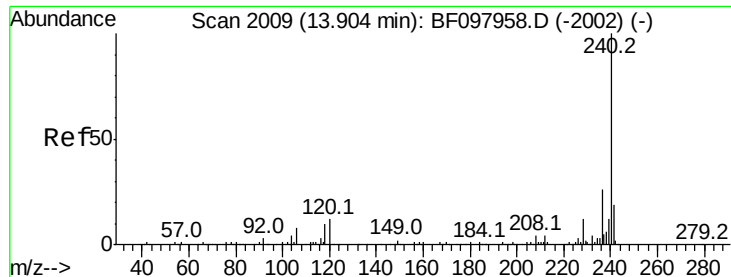


Abundance Ion 248.00 (247.70 to 248.70): E

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: BF098116.D

Acq: 29 Aug 2017 17:43

Instrument :

BNA\_F

ClientSampleId :

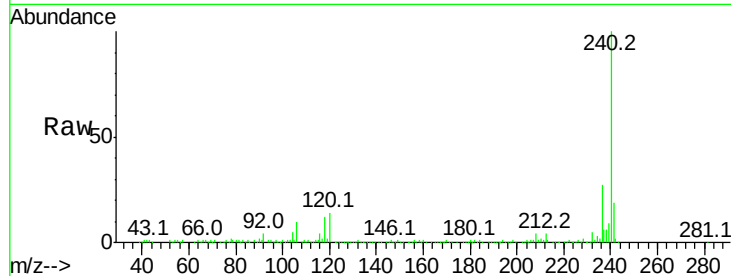
Tot Ion:240 Resp: 261396

Ion Ratio Lower Upper

240 100

120 14.3 5.8 8.8#

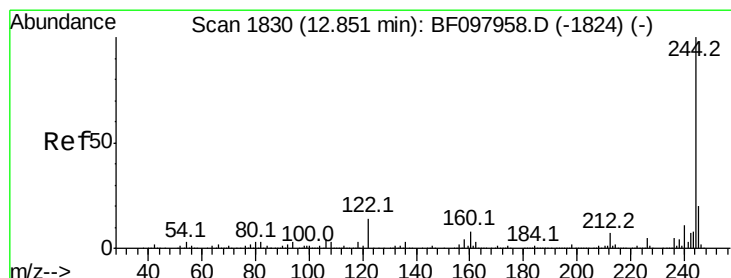
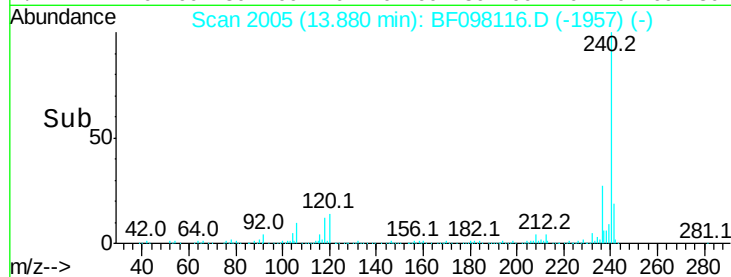
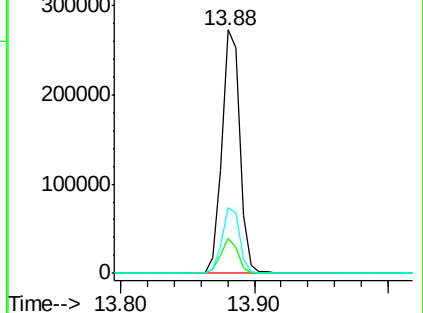
236 26.7 20.5 30.7



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: 73.460 ng

RT: 12.84 min Scan# 1828

Delta R.T. -0.01 min

Lab File: BF098116.D

Acq: 29 Aug 2017 17:43

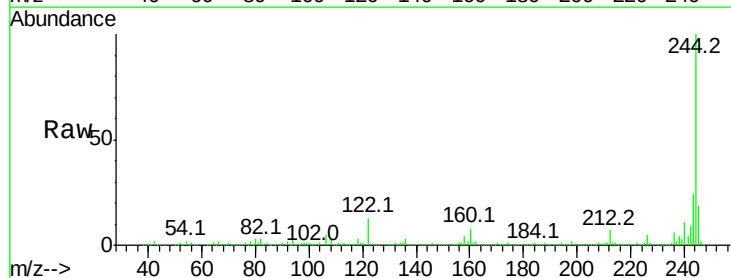
Tgt Ion:244 Resp: 920816

Ion Ratio Lower Upper

244 100

212 7.2 6.0 9.0

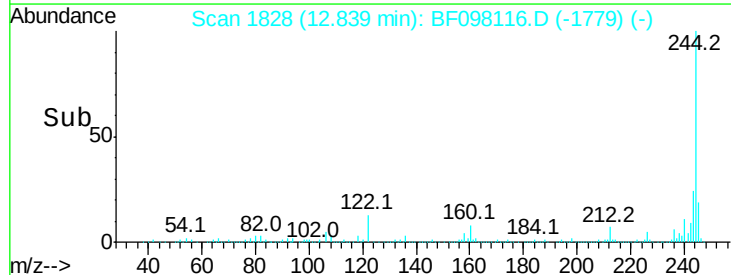
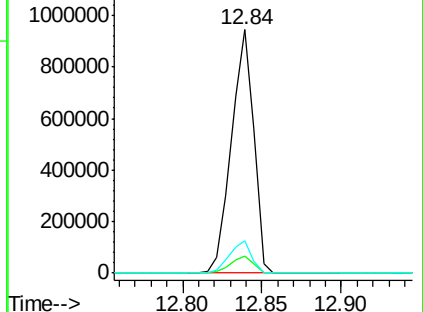
122 13.2 10.3 15.5

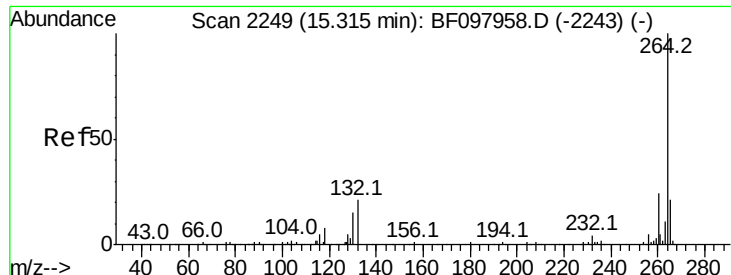


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

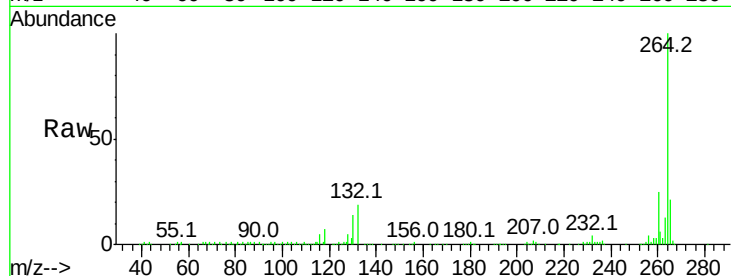




#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.30 min Scan# 2247  
 Delta R.T. -0.01 min  
 Lab File: BF098116.D  
 Acq: 29 Aug 2017 17:43

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.1  | 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

