

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072417\  
 Data File : BF097014.D  
 Acq On : 25 Jul 2017 4:40  
 Operator : SJ/JU  
 Sample : I4358-01RE 5X  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 25 05:53:51 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF071317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 25 01:37:00 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.52  | 152  | 146285   | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 7.80  | 136  | 536044   | 20.00 | ng    | -0.03    |
| 38) Acenaphthene-d10      | 9.55  | 164  | 192874   | 20.00 | ng    | -0.03    |
| 63) Phenanthrene-d10      | 11.02 | 188  | 278656   | 20.00 | ng    | -0.04    |
| 75) Chrysene-d12          | 13.65 | 240  | 279663   | 20.00 | ng    | -0.04    |
| 86) Perylene-d12          | 15.00 | 264  | 221717   | 20.00 | ng    | -0.04    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.12  | 112  | 191791   | 19.71 | ng    | -0.04    |
| 7) Phenol-d6                | 6.17  | 99   | 221528   | 18.97 | ng    | -0.04    |
| 23) Nitrobenzene-d5         | 7.07  | 82   | 119167   | 13.77 | ng    | -0.04    |
| 41) 2,4,6-Tribromophenol    | 10.33 | 330  | 26531    | 16.12 | ng    | -0.04    |
| 44) 2-Fluorobiphenyl        | 8.87  | 172  | 202951   | 16.62 | ng    | -0.04    |
| 78) Terphenyl-d14           | 12.60 | 244  | 130836   | 8.11  | ng    | -0.04    |

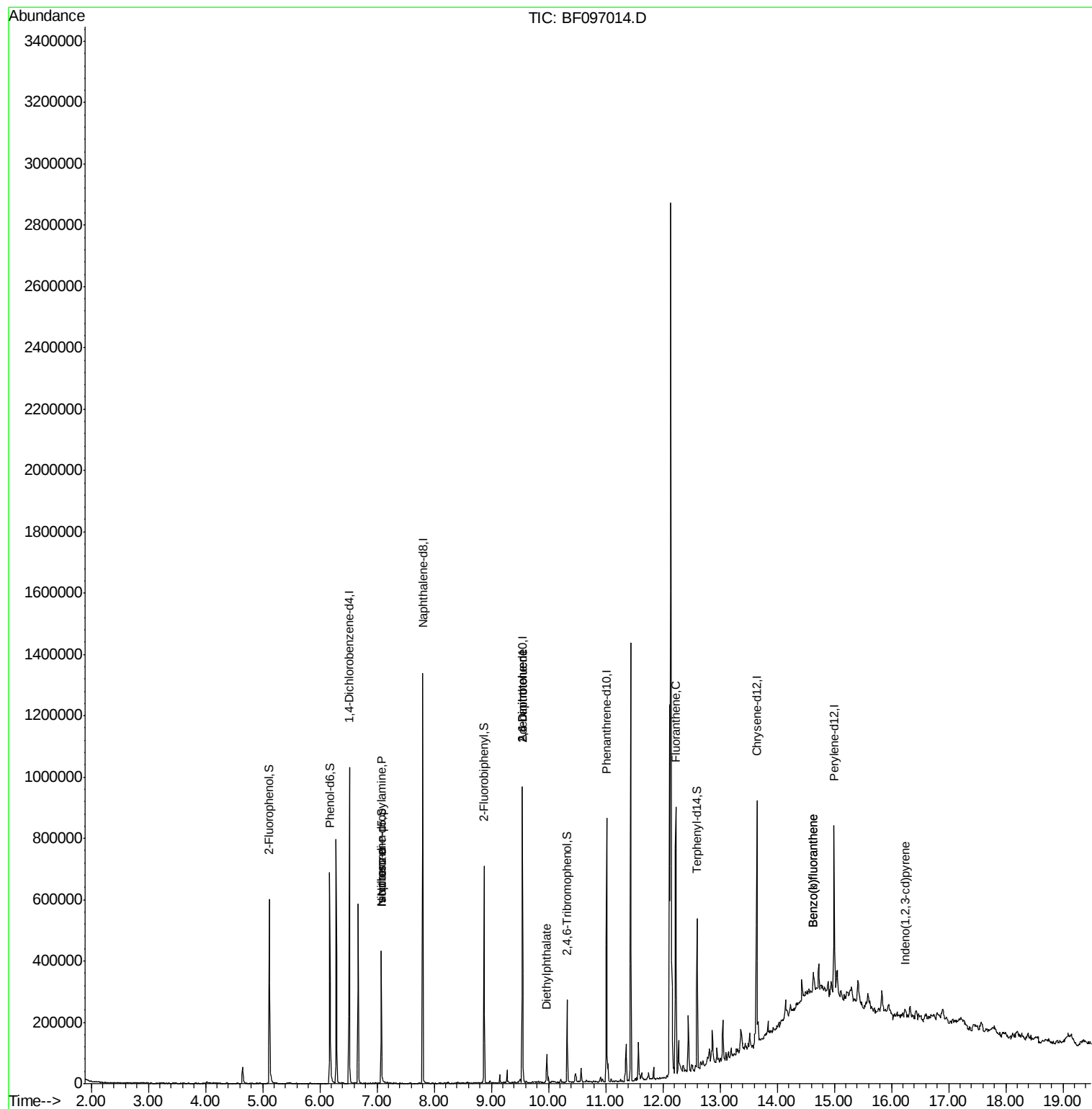
| Target Compounds               | R.T.  | QIon | Response | Conc | Units | Qvalue |
|--------------------------------|-------|------|----------|------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.07  | 70   | 14832    | 2.11 | ng    | # 88   |
| 25) Isophorone                 | 7.07  | 82   | 119165   | 7.40 | ng    | # 67   |
| 50) 2,6-Dinitrotoluene         | 9.55  | 165  | 24716    | 7.86 | ng    | # 34   |
| 56) 2,4-Dinitrotoluene         | 9.55  | 165  | 24716    | 6.11 | ng    | # 33   |
| 59) Diethylphthalate           | 9.97  | 149  | 31632    | 2.24 | ng    | 97     |
| 74) Fluoranthene               | 12.22 | 202  | 47736    | 3.29 | ng    | 86     |
| 85) Indeno(1,2,3-cd)pyrene     | 16.24 | 276  | 7383     | 3.78 | ng    | 93     |
| 87) Benzo(b)fluoranthene       | 14.63 | 252  | 34290    | 2.56 | ng    | # 82   |
| 88) Benzo(k)fluoranthene       | 14.63 | 252  | 34290    | 2.71 | ng    | # 86   |

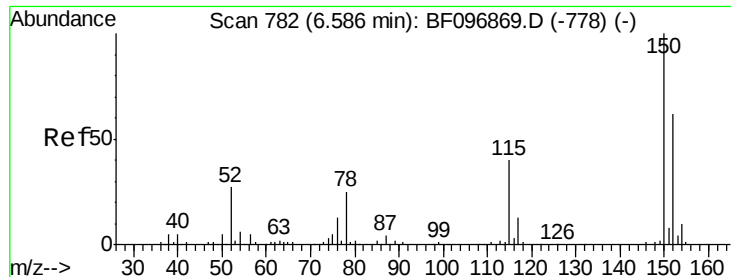
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.52 min Scan# 787

Delta R.T. -0.02 min

Lab File: BF097014.D

Acq: 25 Jul 2017 4:40

Instrument :

BNA\_F

ClientSampleId :

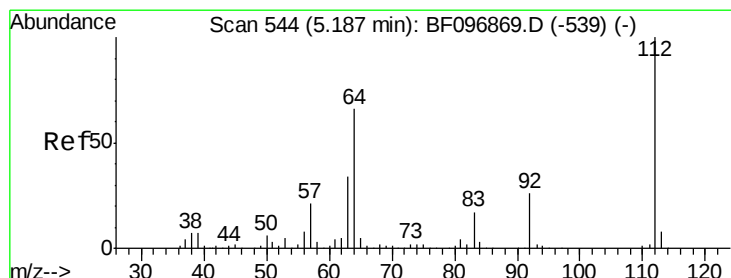
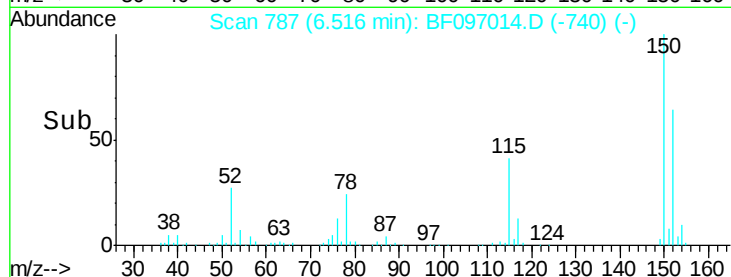
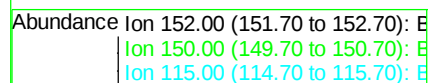
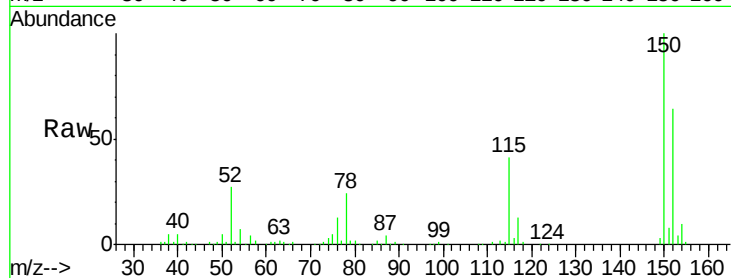
Tot Ion:152 Resp: 146285

Ion Ratio Lower Upper

152 100

150 157.1 126.2 189.2

115 63.9 52.2 78.2



#5

2-Fluorophenol

Concen: 19.71 ng

RT: 5.12 min Scan# 549

Delta R.T. -0.04 min

Lab File: BF097014.D

Acq: 25 Jul 2017 4:40

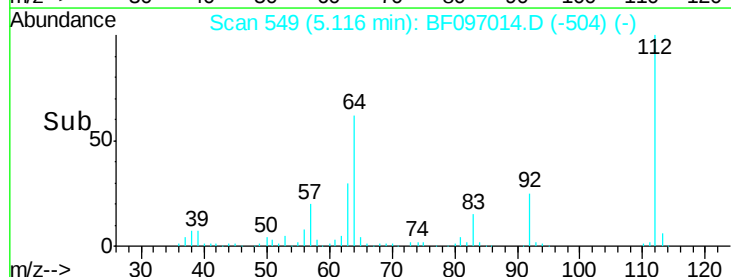
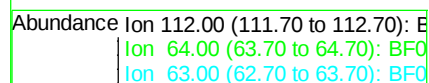
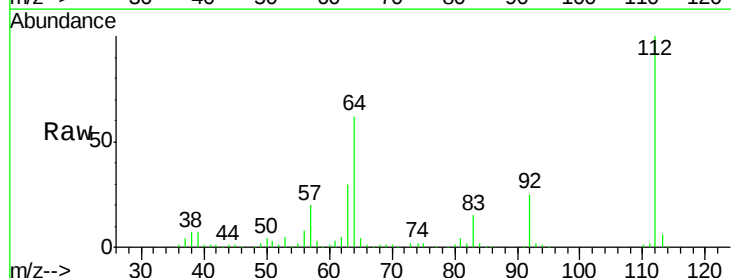
Tgt Ion:112 Resp: 191791

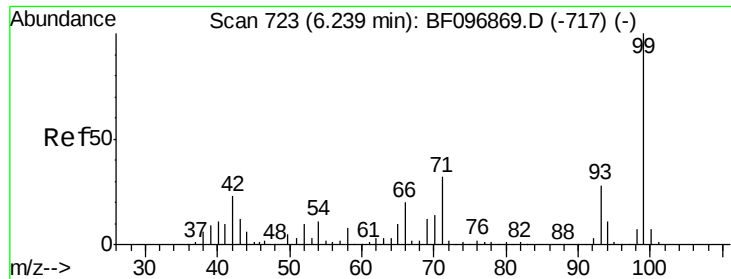
Ion Ratio Lower Upper

112 100

64 61.9 46.0 69.0

63 30.1 23.4 35.0





#7

Phenol-d6

Concen: 18.97 ng

RT: 6.17 min Scan# 729

Delta R.T. -0.04 min

Lab File: BF097014.D

Acq: 25 Jul 2017 4:40

Instrument :

BNA\_F

ClientSampleId :

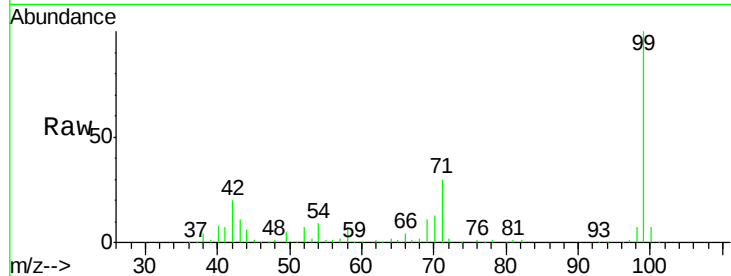
Tot Ion: 99 Resp: 221528

Ion Ratio Lower Upper

99 100

42 20.2 13.5 20.3

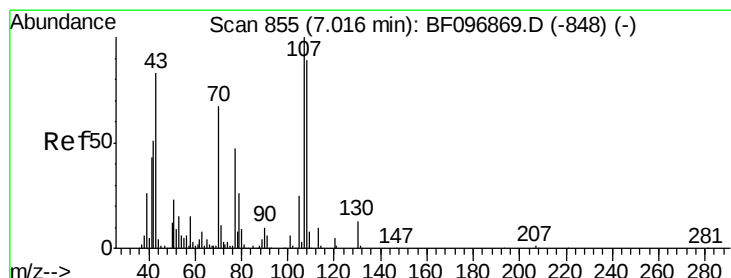
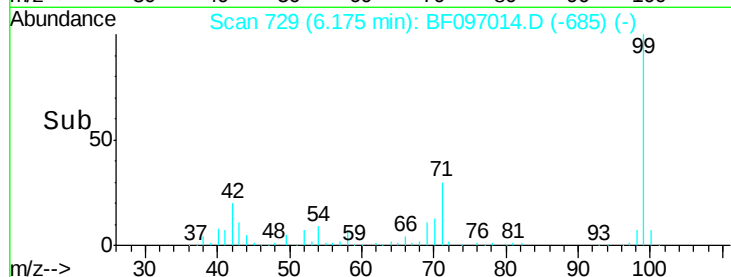
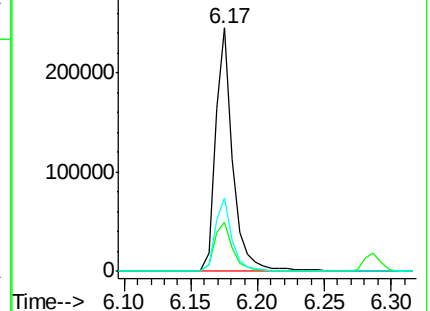
71 30.2 24.5 36.7



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: 2.11 ng

RT: 7.07 min Scan# 882

Delta R.T. 0.10 min

Lab File: BF097014.D

Acq: 25 Jul 2017 4:40

Tgt Ion: 70 Resp: 14832

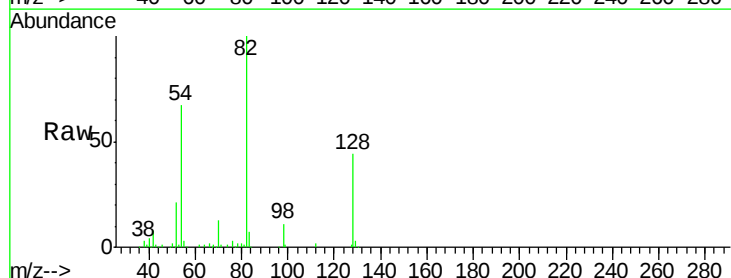
Ion Ratio Lower Upper

70 100

42 60.4 47.2 70.8

101 0.0 7.2 10.8#

130 3.1 15.9 23.9#

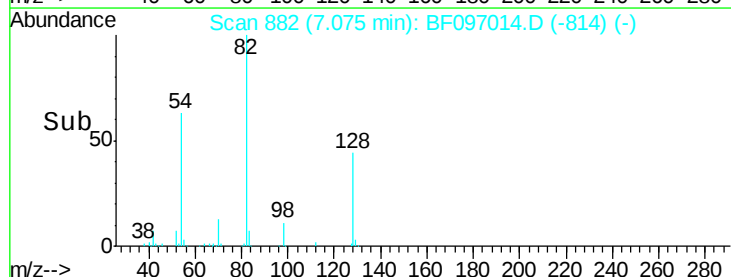
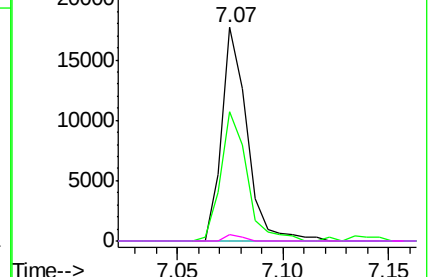


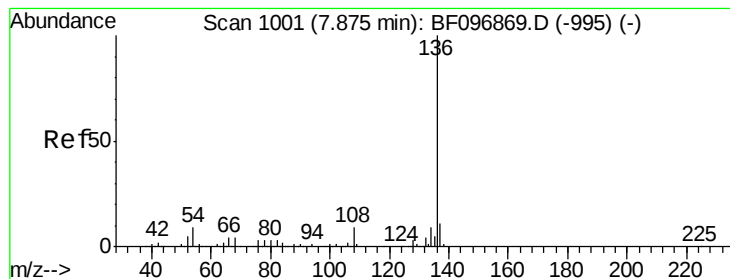
Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 7.80 min Scan# 1005

Delta R.T. -0.03 min

Lab File: BF097014.D

Acq: 25 Jul 2017 4:40

Instrument :

BNA\_F

ClientSampled :

Tot Ion:136 Resp: 536044

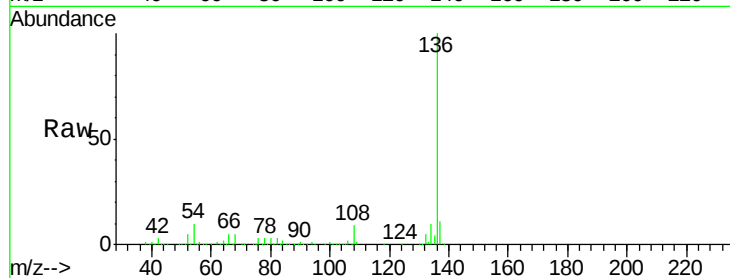
Ion Ratio Lower Upper

136 100

137 11.0 8.5 12.7

54 10.5 4.9 7.3#

68 5.4 4.1 6.1

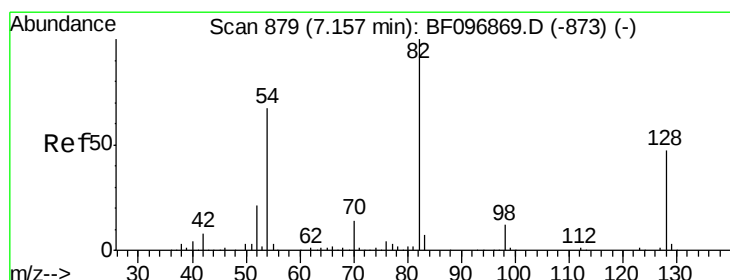
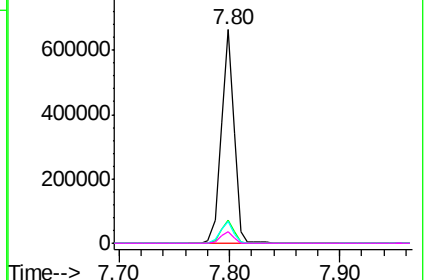
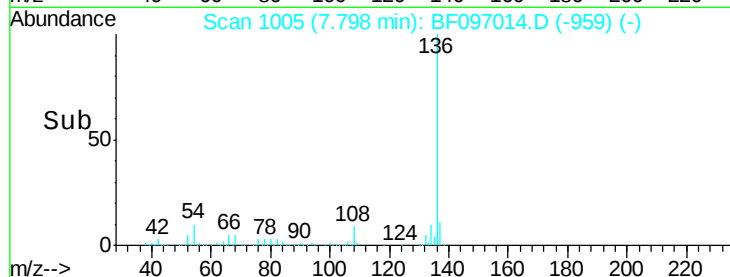


Abundance Ion 136.00 (135.70 to 136.70): E

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: 13.77 ng

RT: 7.07 min Scan# 882

Delta R.T. -0.04 min

Lab File: BF097014.D

Acq: 25 Jul 2017 4:40

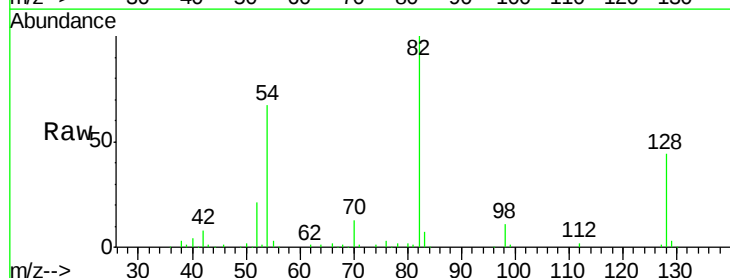
Tgt Ion: 82 Resp: 119167

Ion Ratio Lower Upper

82 100

128 43.7 34.0 51.0

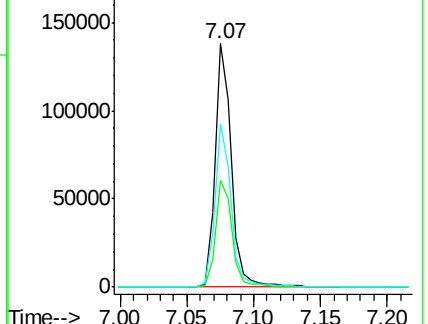
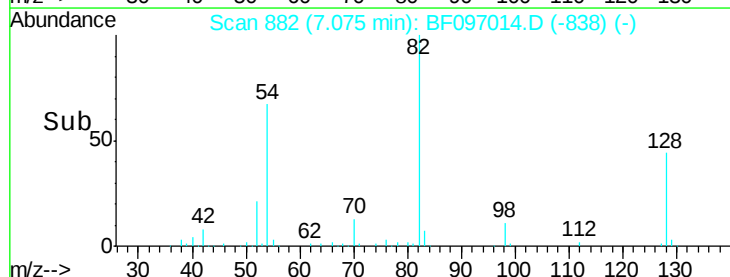
54 67.0 42.2 63.2#

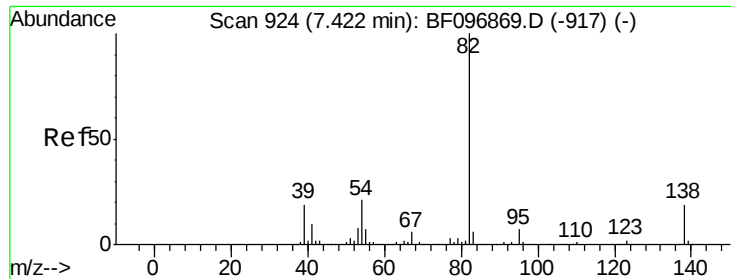


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 7.40 ng

RT: 7.07 min Scan# 882

Delta R.T. -0.30 min

Lab File: BF097014.D

Acq: 25 Jul 2017 4:40

Instrument :

BNA\_F

ClientSampleId :

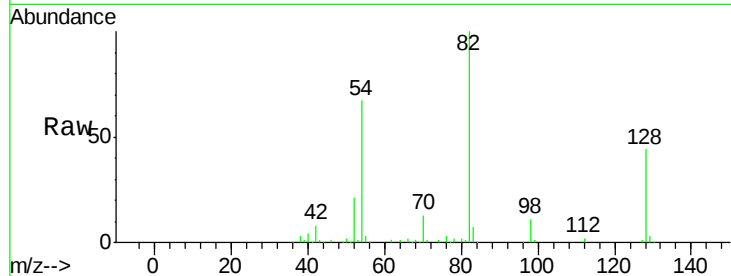
Tot Ion: 82 Resp: 119165

Ion Ratio Lower Upper

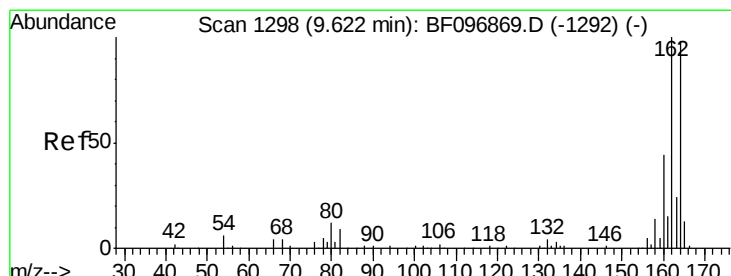
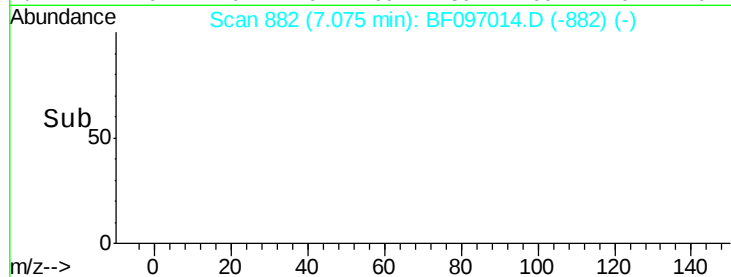
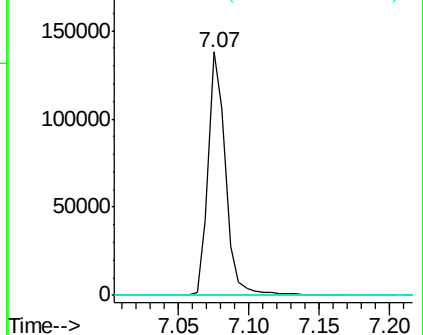
82 100

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: 9.55 min Scan# 1302

Delta R.T. -0.03 min

Lab File: BF097014.D

Acq: 25 Jul 2017 4:40

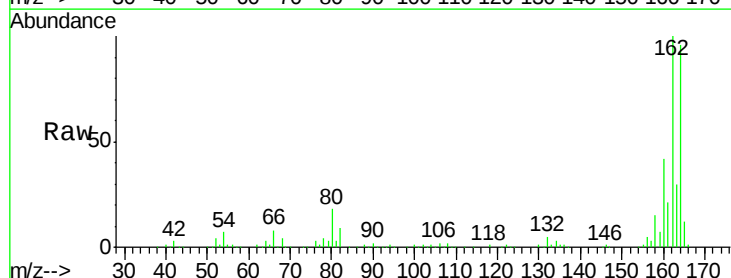
Tgt Ion:164 Resp: 192874

Ion Ratio Lower Upper

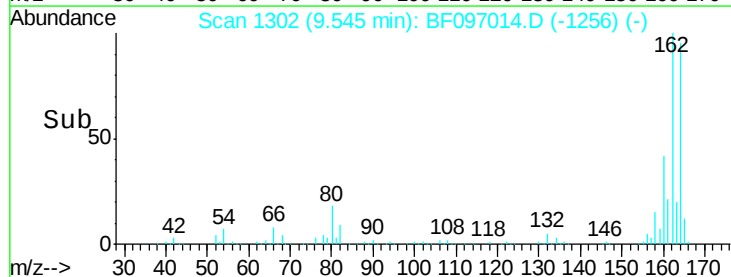
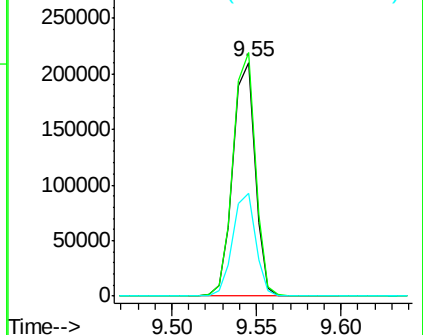
164 100

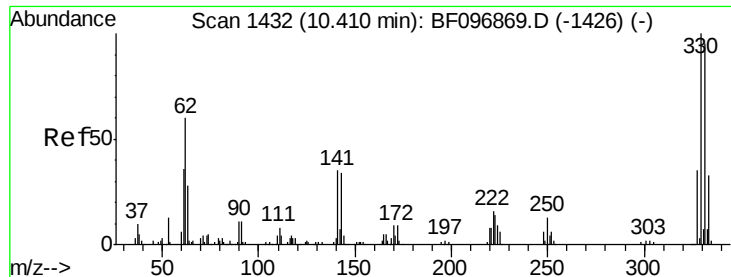
162 104.3 82.6 123.8

160 44.3 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

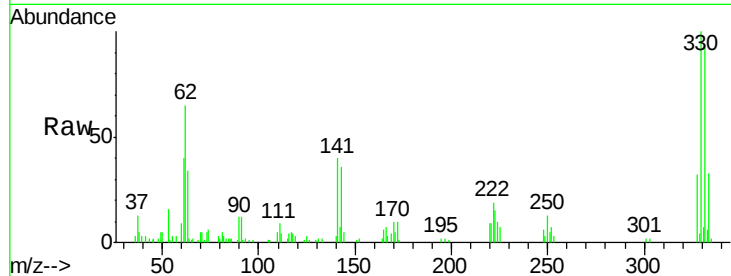




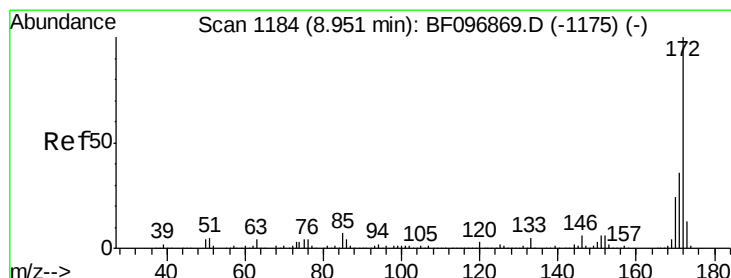
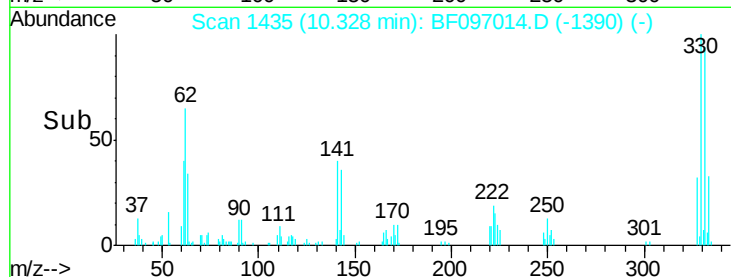
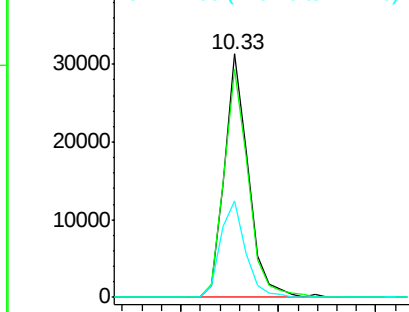
#41  
 2,4,6-Tribromophenol  
 Concen: 16.12 ng  
 RT: 10.33 min Scan# 1435  
 Delta R.T. -0.04 min  
 Lab File: BF097014.D  
 Acq: 25 Jul 2017 4:40

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.0  | 76.6  | 115.0 |
| 141     | 41.4  | 31.4  | 47.2  |

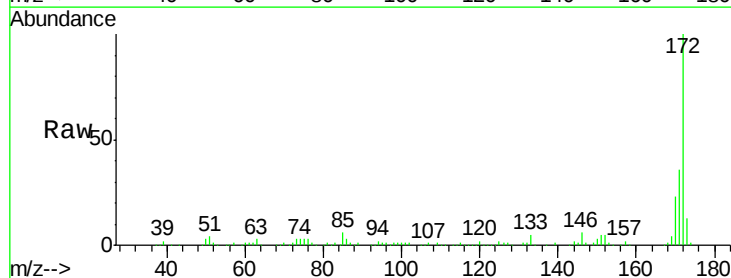


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

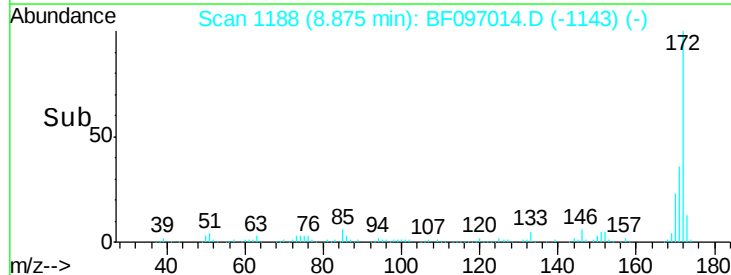
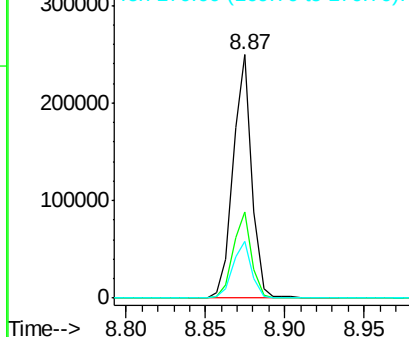


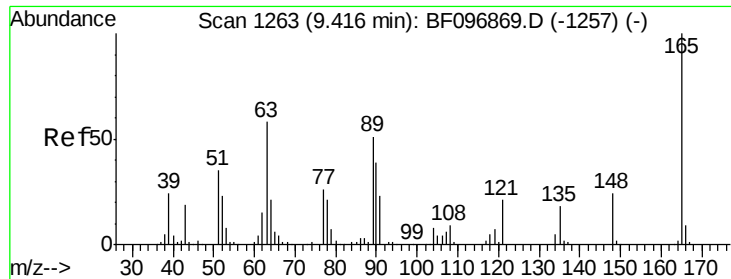
#44  
 2-Fluorobiphenyl  
 Concen: 16.62 ng  
 RT: 8.87 min Scan# 1188  
 Delta R.T. -0.04 min  
 Lab File: BF097014.D  
 Acq: 25 Jul 2017 4:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.7  | 29.6  | 44.4  |
| 170     | 23.2  | 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

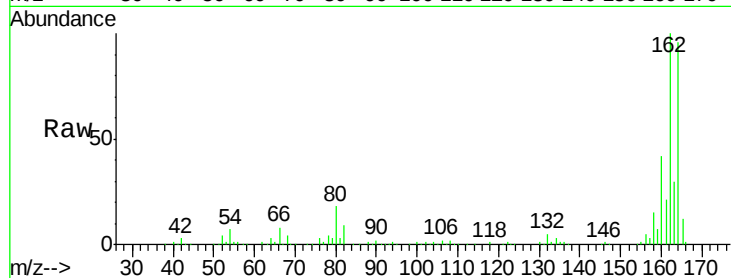




#50  
 2,6-Dinitrotoluene  
 Concen: 7.86 ng  
 RT: 9.55 min Scan# 1302  
 Delta R.T. 0.17 min  
 Lab File: BF097014.D  
 Acq: 25 Jul 2017 4:40

Instrument :  
 BNA\_F  
 ClientSampleId :

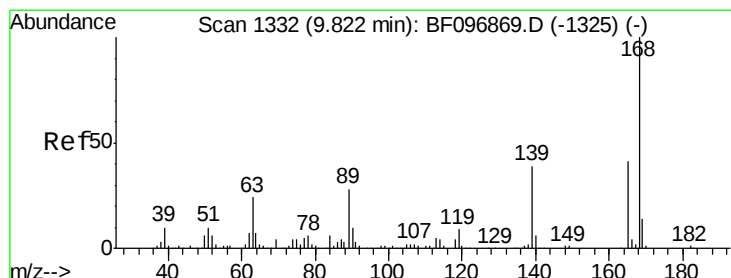
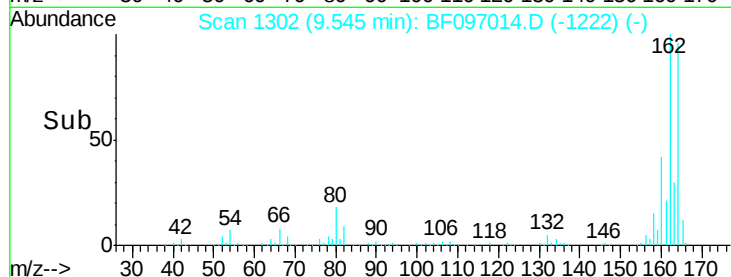
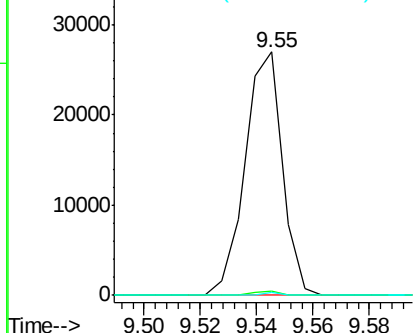
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.6   | 34.3  | 51.5# |
| 89      | 1.5   | 37.1  | 55.7# |



Abundance Ion 165.00 (164.70 to 165.70): E

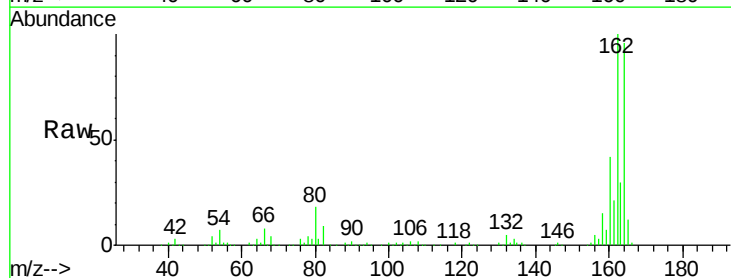
Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#56  
 2,4-Dinitrotoluene  
 Concen: 6.11 ng  
 RT: 9.55 min Scan# 1302  
 Delta R.T. -0.23 min  
 Lab File: BF097014.D  
 Acq: 25 Jul 2017 4:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.6   | 25.4  | 38.0# |
| 89      | 1.5   | 46.4  | 69.6# |
| 182     | 0.0   | 1.8   | 2.6#  |

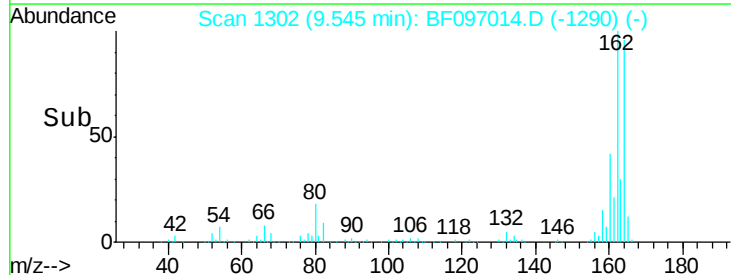
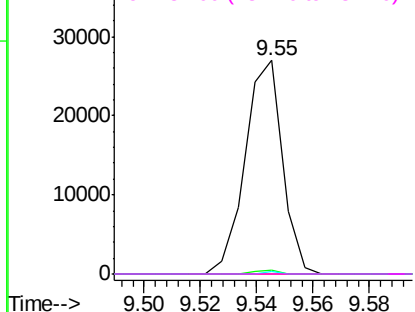


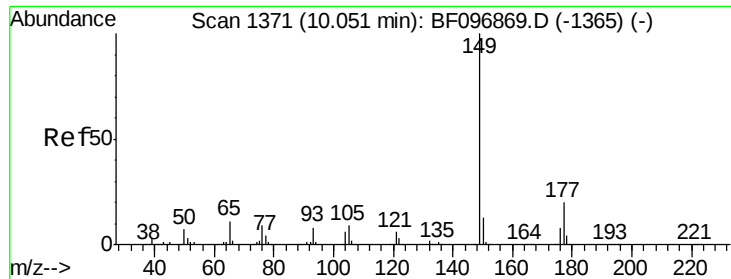
Abundance Ion 165.00 (164.70 to 165.70): E

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

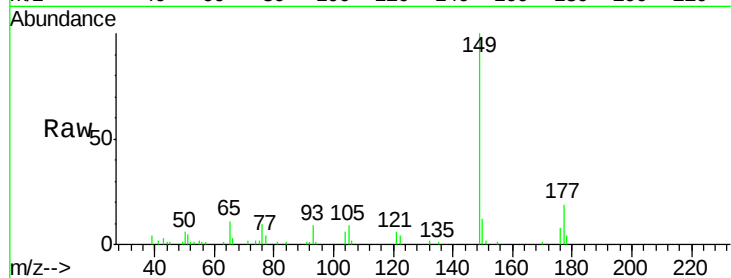




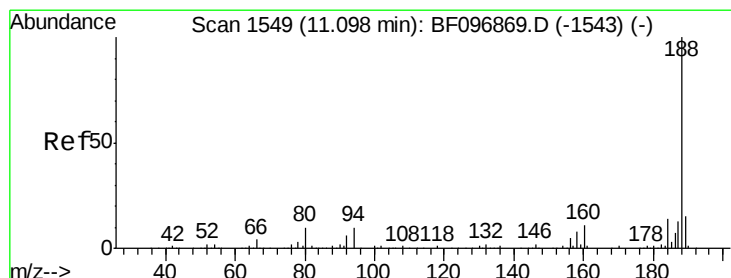
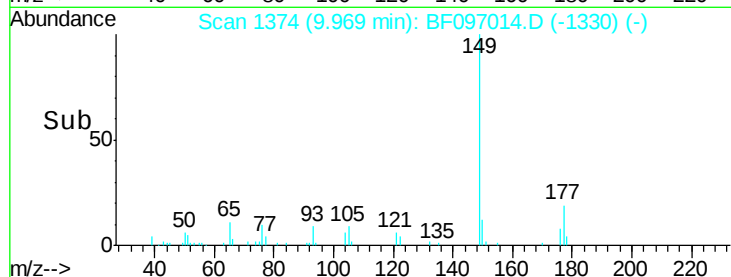
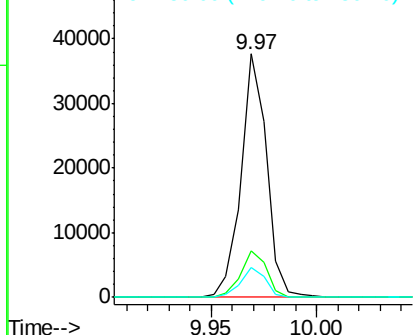
#59  
Diethylphthalate  
Concen: 2.24 ng  
RT: 9.97 min Scan# 1374  
Delta R.T. -0.04 min  
Lab File: BF097014.D  
Acq: 25 Jul 2017 4:40

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:149 Resp: 31632  
Ion Ratio Lower Upper  
149 100  
177 19.0 16.7 25.1  
150 12.2 10.2 15.2

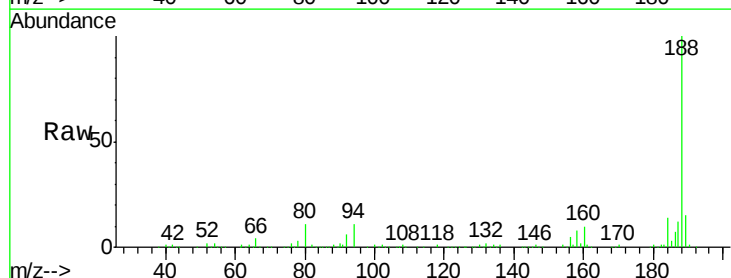


Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 177.00 (176.70 to 177.70): E  
Ion 150.00 (149.70 to 150.70): E

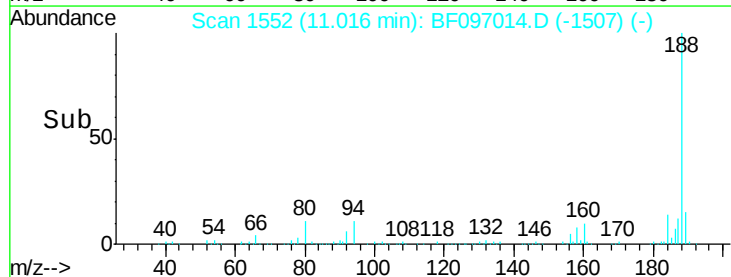
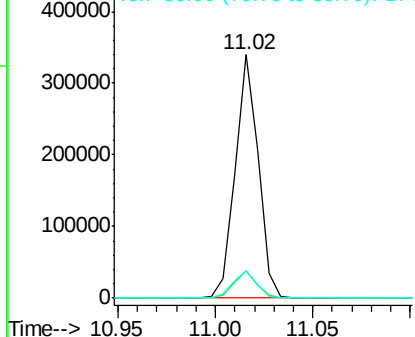


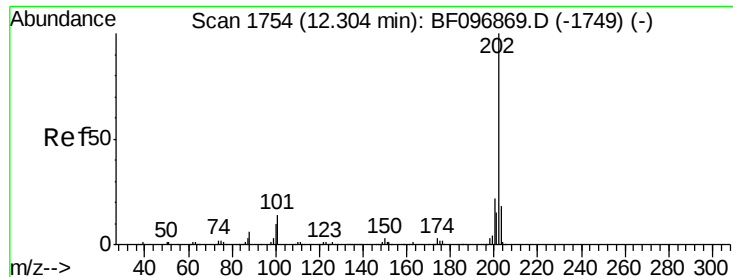
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.02 min Scan# 1552  
Delta R.T. -0.04 min  
Lab File: BF097014.D  
Acq: 25 Jul 2017 4:40

Tgt Ion:188 Resp: 278656  
Ion Ratio Lower Upper  
188 100  
94 11.1 9.4 14.2  
80 11.4 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





#74

Fluoranthene

Concen: 3.29 ng

RT: 12.22 min Scan# 1757

Delta R.T. -0.04 min

Lab File: BF097014.D

Acq: 25 Jul 2017 4:40

Instrument :

BNA\_F

ClientSampleId :

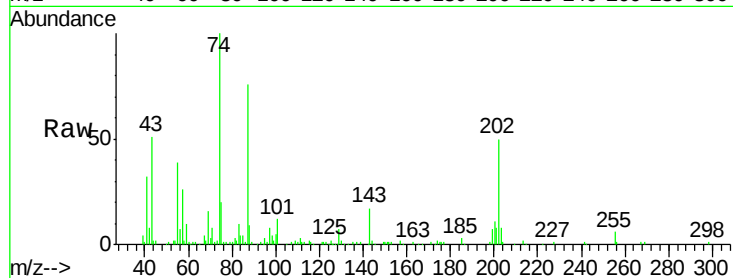
Tot Ion:202 Resp: 47736

Ion Ratio Lower Upper

202 100

101 24.7 0.0 33.2

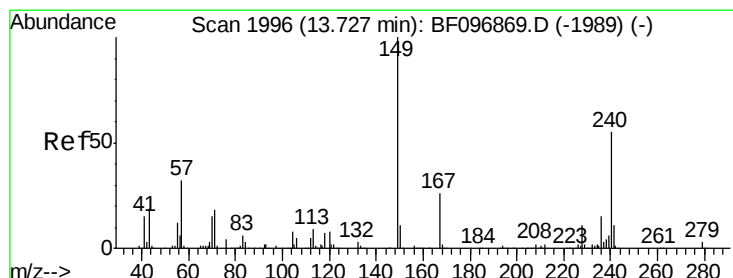
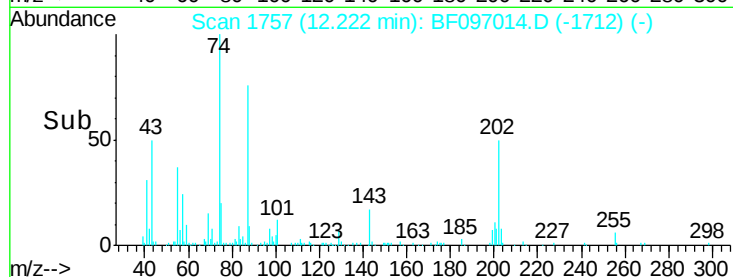
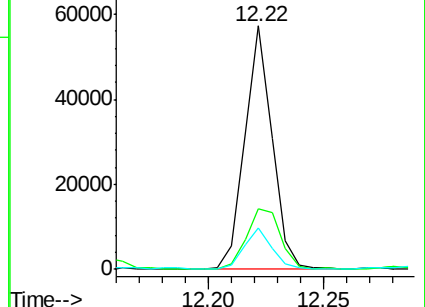
203 16.9 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.65 min Scan# 1999

Delta R.T. -0.04 min

Lab File: BF097014.D

Acq: 25 Jul 2017 4:40

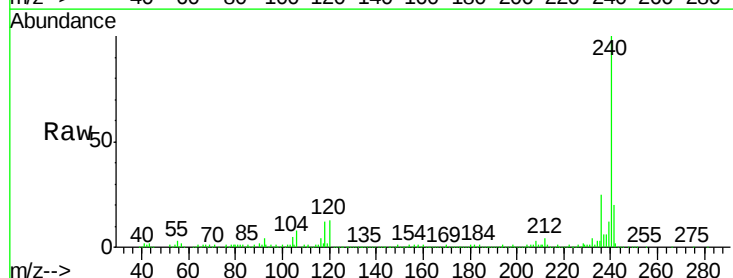
Tgt Ion:240 Resp: 279663

Ion Ratio Lower Upper

240 100

120 13.2 5.8 8.8#

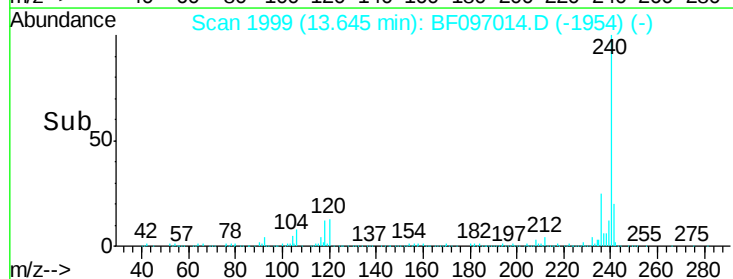
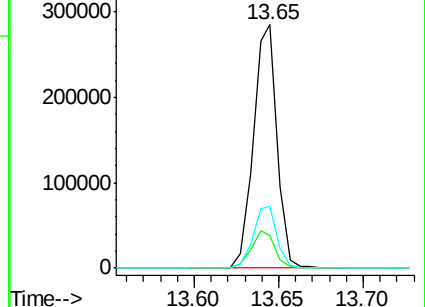
236 25.3 20.5 30.7

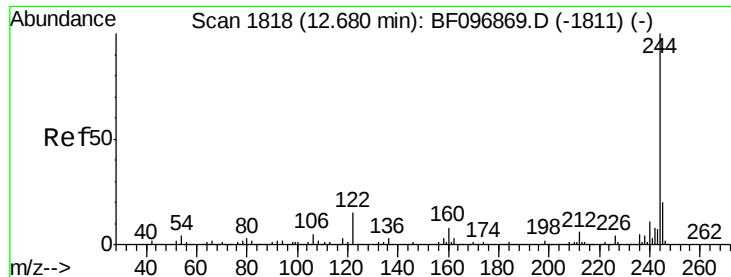


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

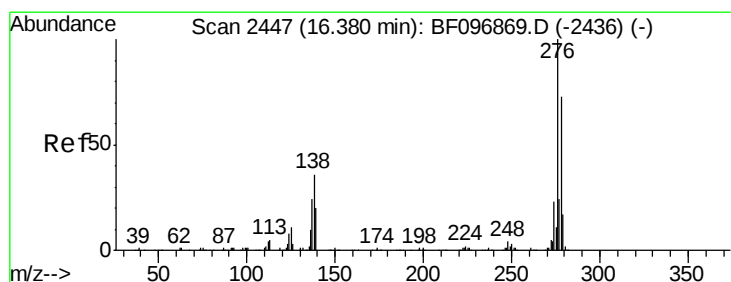
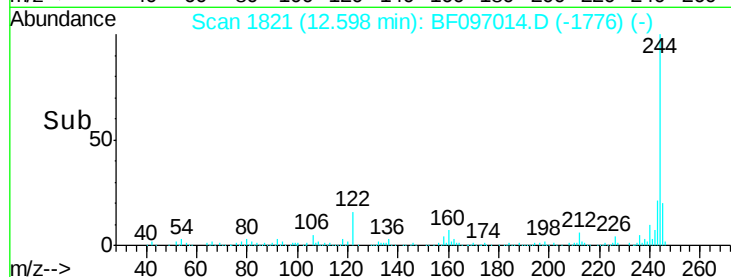
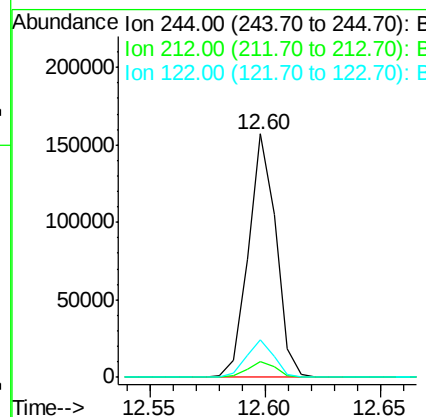
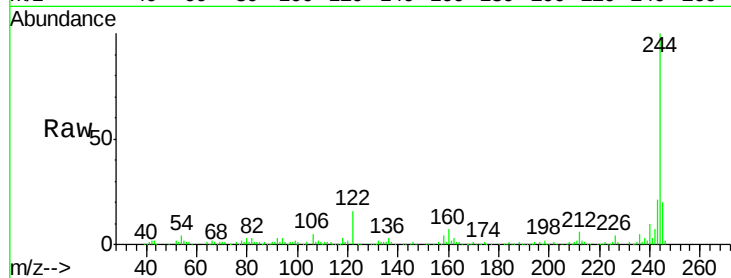




#78  
 Terphenyl-d14  
 Concen: 8.11 ng  
 RT: 12.60 min Scan# 1821  
 Delta R.T. -0.04 min  
 Lab File: BF097014.D  
 Acq: 25 Jul 2017 4:40

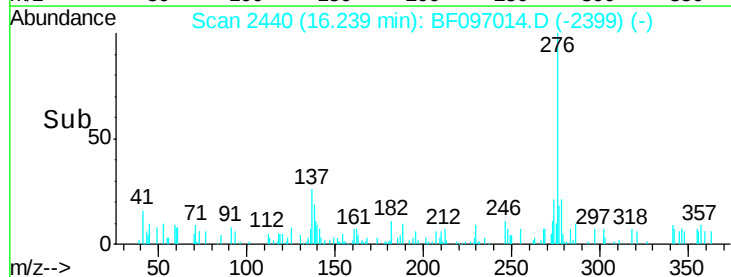
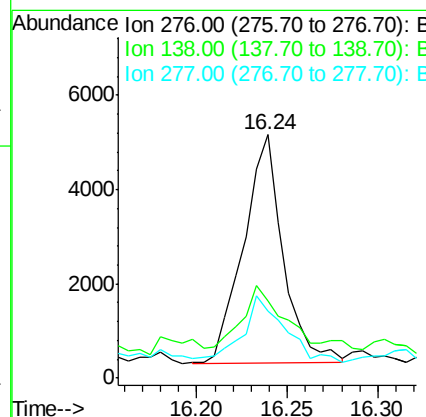
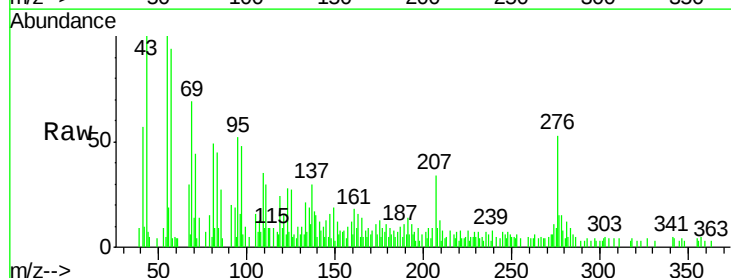
Instrument :  
 BNA\_F  
 ClientSampleId :

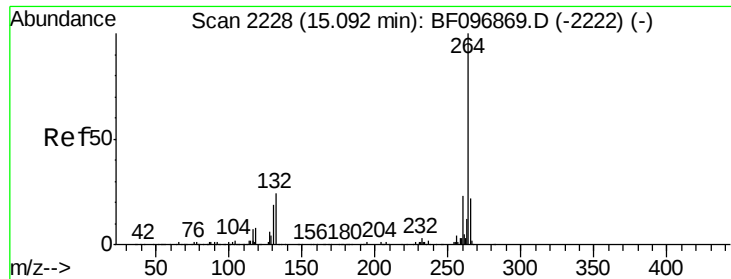
Tot Ion:244 Resp: 130836  
 Ion Ratio Lower Upper  
 244 100  
 212 6.2 6.0 9.0  
 122 15.5 10.3 15.5#



#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 3.78 ng  
 RT: 16.24 min Scan# 2440  
 Delta R.T. -0.06 min  
 Lab File: BF097014.D  
 Acq: 25 Jul 2017 4:40

Tgt Ion:276 Resp: 7383  
 Ion Ratio Lower Upper  
 276 100  
 138 38.2 27.8 41.6  
 277 30.0 20.2 30.4

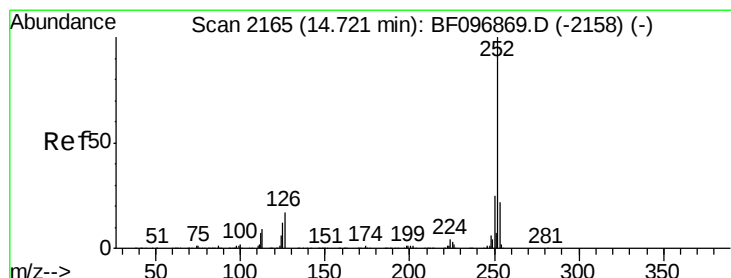
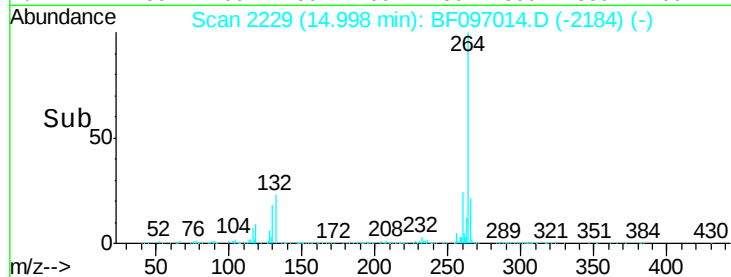
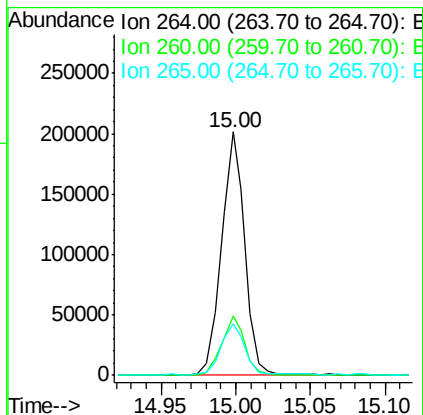
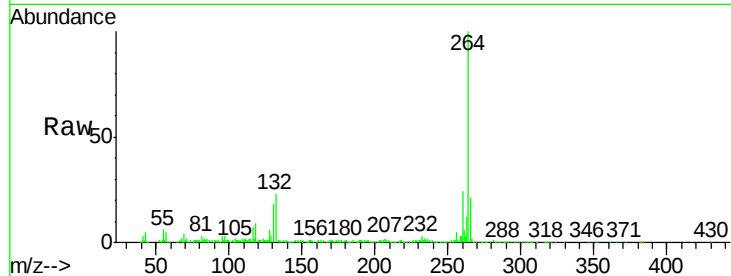




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.00 min Scan# 2229  
Delta R.T. -0.04 min  
Lab File: BF097014.D  
Acq: 25 Jul 2017 4:40

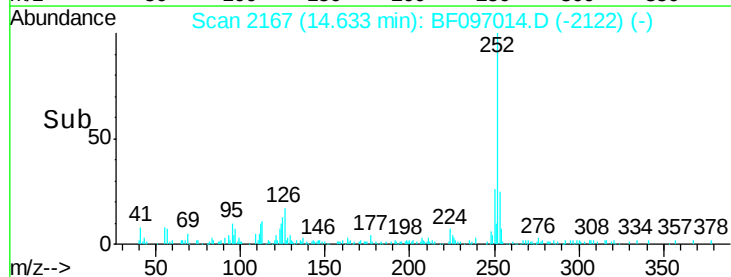
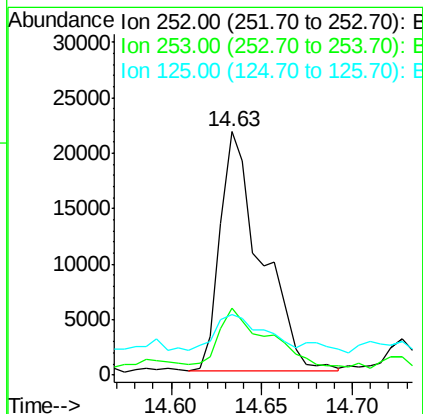
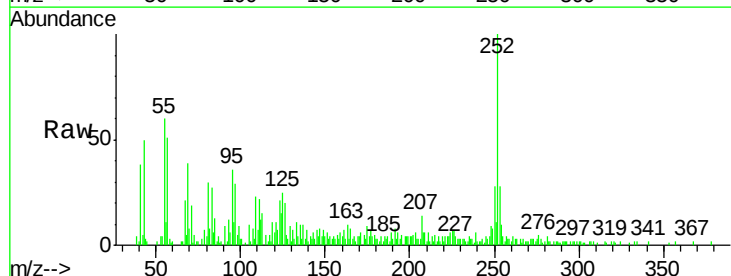
Instrument :  
BNA\_F  
ClientSampled :

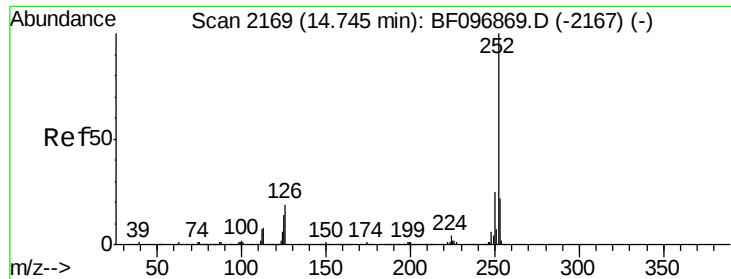
Tot Ion:264 Resp: 221717  
Ion Ratio Lower Upper  
264 100  
260 24.5 19.5 29.3  
265 21.1 17.2 25.8



#87  
Benzo(b)fluoranthene  
Concen: 2.56 ng  
RT: 14.63 min Scan# 2167  
Delta R.T. -0.04 min  
Lab File: BF097014.D  
Acq: 25 Jul 2017 4:40

Tgt Ion:252 Resp: 34290  
Ion Ratio Lower Upper  
252 100  
253 27.7 18.1 27.1#  
125 24.7 9.8 14.8#





#88

Benzo(k)fluoranthene

Concen: 2.71 ng

RT: 14.63 min Scan# 2167

Delta R.T. -0.06 min

Lab File: BF097014.D

Acq: 25 Jul 2017 4:40

Instrument :

BNA\_F

ClientSampleId :

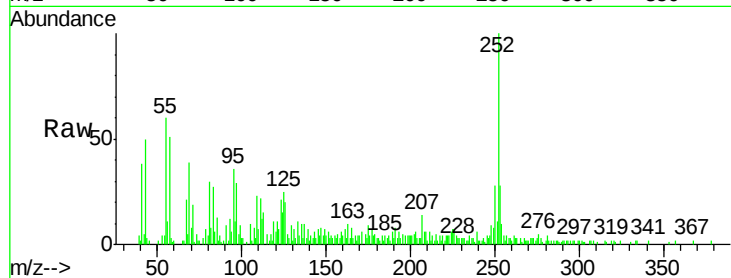
Tot Ion: 252 Resp: 34290

Ion Ratio Lower Upper

252 100

253 27.7 18.4 27.6#

125 24.7 13.1 19.7#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

