

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101518\  
 Data File : BF109892.D  
 Acq On : 15 Oct 2018 21:14  
 Operator : JU/SJ  
 Sample : J5198-15  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 16 01:25:22 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101518.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 15 18:09:48 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.97  | 152  | 245133   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.26  | 136  | 860242   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 10.02 | 164  | 321726   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.51 | 188  | 532628   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.15 | 240  | 562539   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.67 | 264  | 420937   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.60  | 112  | 1249643  | 80.81 | ng    | 0.00     |
| 7) Phenol-d6                | 6.59  | 99   | 1520624  | 79.19 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.54  | 82   | 894696   | 70.06 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.80 | 330  | 234079   | 84.04 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.33  | 172  | 1307852  | 64.87 | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.09 | 244  | 1129006  | 42.15 | ng    | 0.00     |

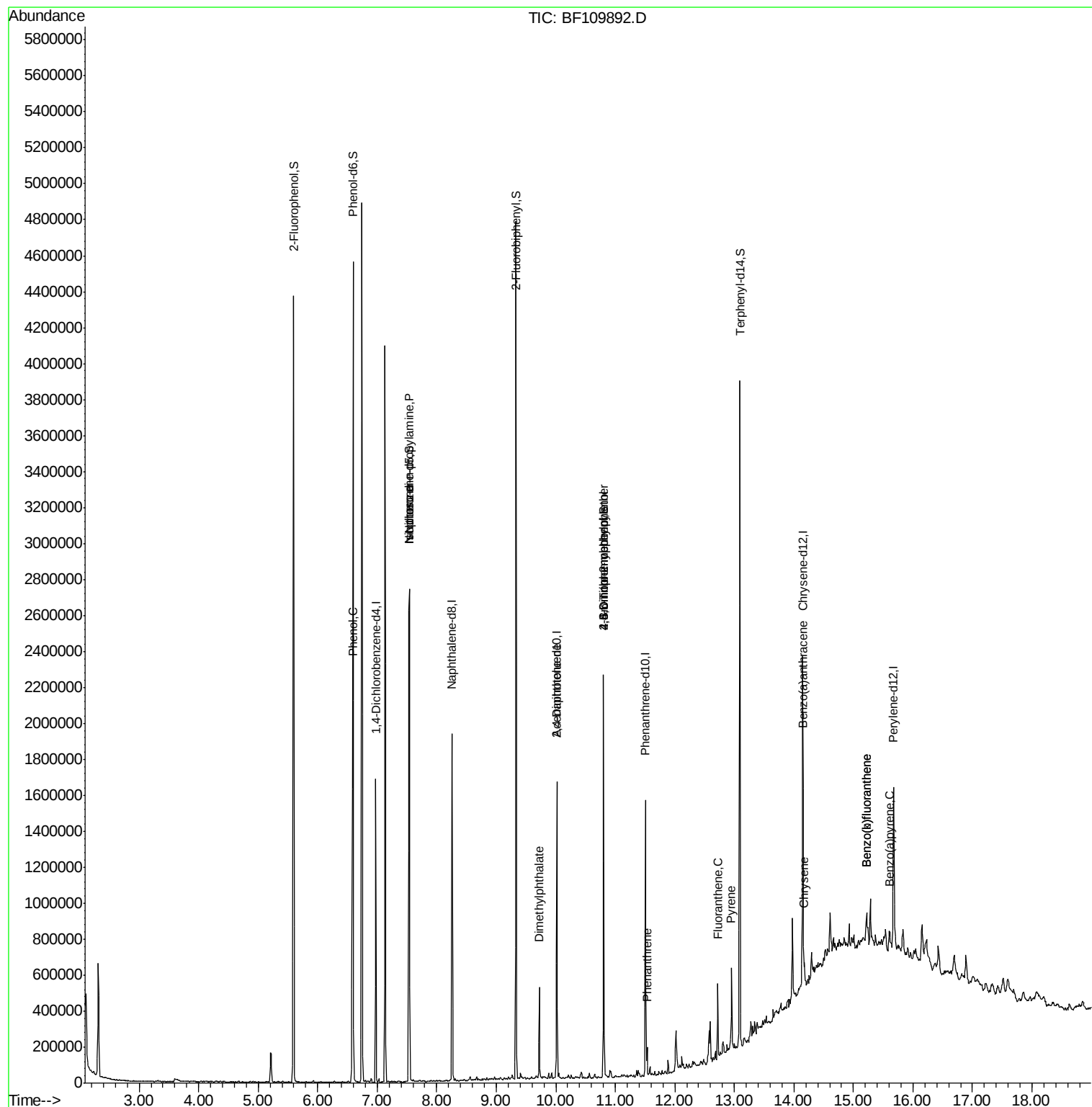
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 10) Phenol                     | 6.60  | 94   | 51457    | 2.482  | ng    | # 60   |
| 19) n-Nitroso-di-n-propylamine | 7.54  | 70   | 118578   | 9.617  | ng    | # 81   |
| 25) Isophorone                 | 7.54  | 82   | 894680   | 35.656 | ng    | # 67   |
| 50) Dimethylphthalate          | 9.72  | 163  | 160396   | 7.041  | ng    | 99     |
| 57) 2,4-Dinitrotoluene         | 10.02 | 165  | 42094    | 11.549 | ng    | # 19   |
| 65) 4,6-Dinitro-2-methylphenol | 10.80 | 198  | 719      | 8.216  | ng    | # 1    |
| 67) 4-Bromophenyl-phenylether  | 10.80 | 248  | 14282    | 2.474  | ng    | # 1    |
| 71) Phenanthrene               | 11.53 | 178  | 56578    | 2.052  | ng    | 98     |
| 75) Fluoranthene               | 12.72 | 202  | 137703   | 4.999  | ng    | 100    |
| 78) Pyrene                     | 12.95 | 202  | 162513   | 3.933  | ng    | 98     |
| 81) Benzo(a)anthracene         | 14.14 | 228  | 77322    | 2.334  | ng    | # 92   |
| 83) Chrysene                   | 14.17 | 228  | 73515    | 2.331  | ng    | # 95   |
| 88) Benzo(b)fluoranthene       | 15.22 | 252  | 104138   | 4.291  | ng    | # 80   |
| 89) Benzo(k)fluoranthene       | 15.22 | 252  | 104138   | 4.354  | ng    | # 79   |
| 90) Benzo(a)pyrene             | 15.60 | 252  | 53990    | 2.419  | ng    | # 81   |

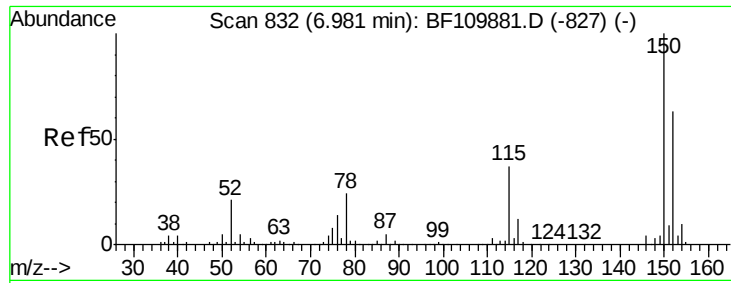
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF101518\  
Data File : BF109892.D  
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Sample : J5198-15  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Oct 16 01:13:56 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101518.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Oct 15 18:09:48 2018  
Response via : Initial Calibration



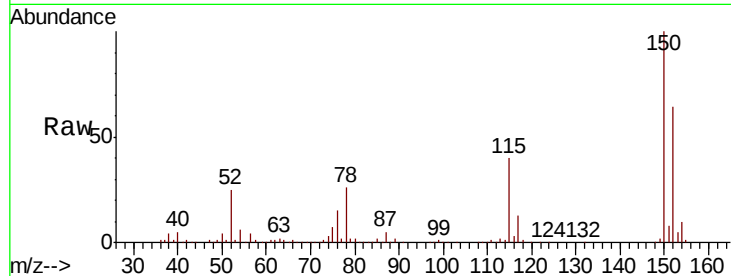


#1

1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.97 min Scan# 831  
 Delta R.T. -0.01 min  
 Lab File: BF109892.D  
 Acq: 15 Oct 2018 21:14

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.4 | 122.7 | 184.1 |
| 115     | 63.7  | 49.1  | 73.7  |

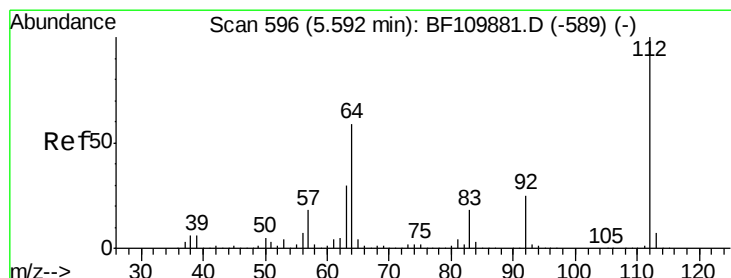
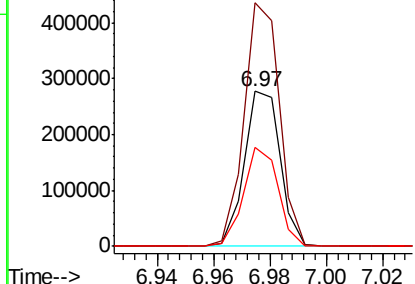
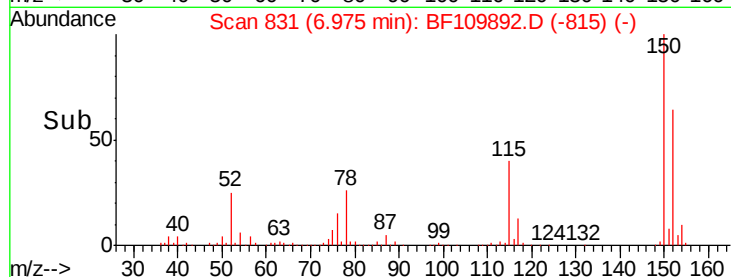


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

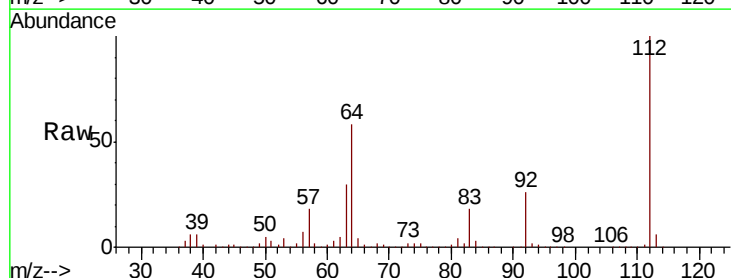
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
 Concen: 80.807 ng  
 RT: 5.60 min Scan# 597  
 Delta R.T. 0.01 min  
 Lab File: BF109892.D  
 Acq: 15 Oct 2018 21:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.9  | 44.1  | 66.1  |
| 63      | 30.1  | 23.7  | 35.5  |

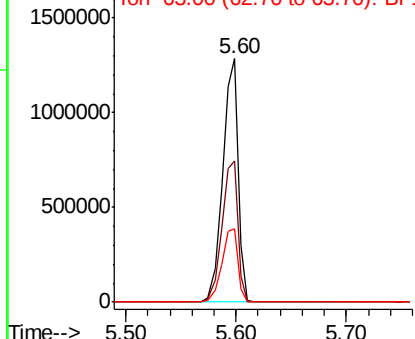
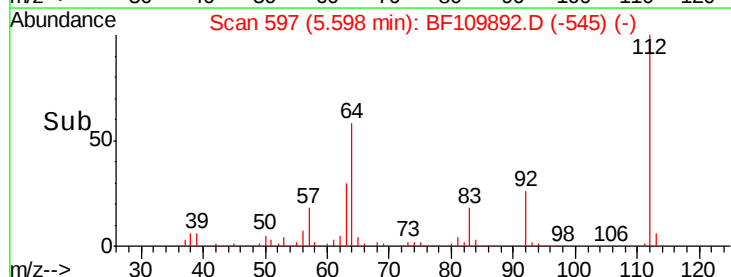


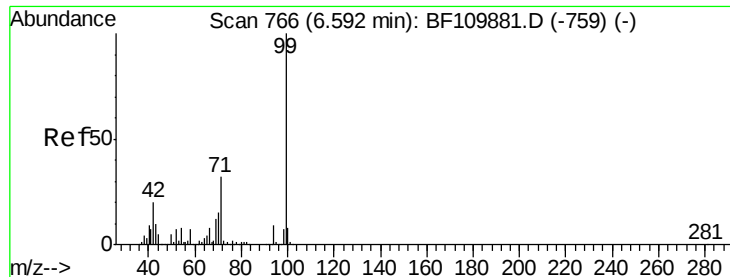
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 79.188 ng

RT: 6.59 min Scan# 766

Delta R.T. -0.00 min

Lab File: BF109892.D

Acq: 15 Oct 2018 21:14

Instrument :

BNA\_F

ClientSampleId :

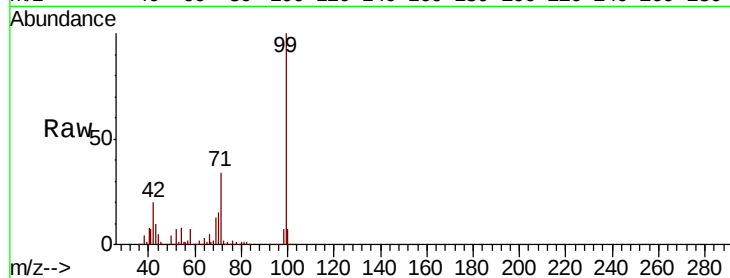
Tot Ion: 99 Resp: 1520624

Ion Ratio Lower Upper

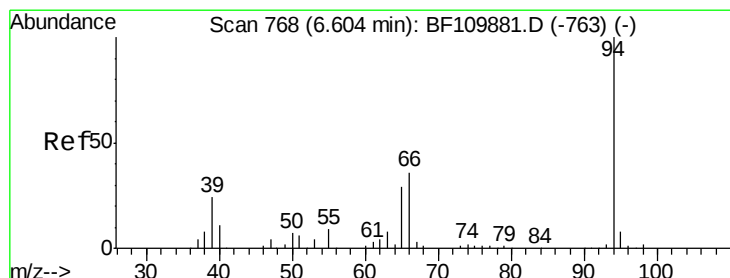
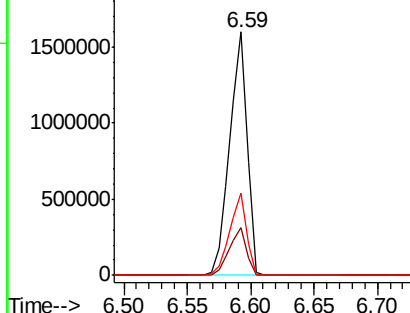
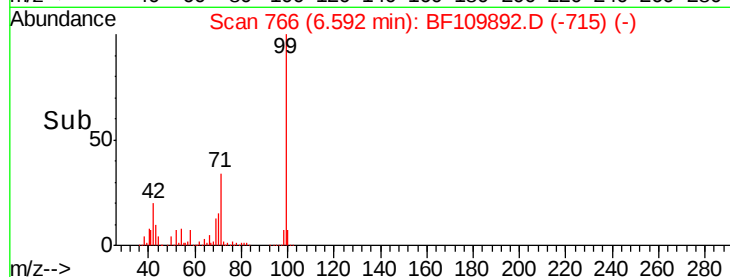
99 100

42 19.5 15.8 23.6

71 33.7 28.0 42.0



Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 2.482 ng

RT: 6.60 min Scan# 768

Delta R.T. -0.00 min

Lab File: BF109892.D

Acq: 15 Oct 2018 21:14

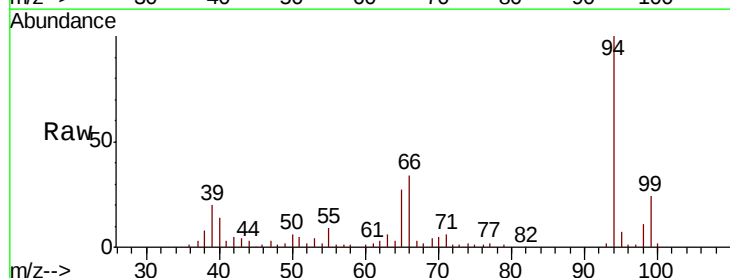
Tgt Ion: 94 Resp: 51457

Ion Ratio Lower Upper

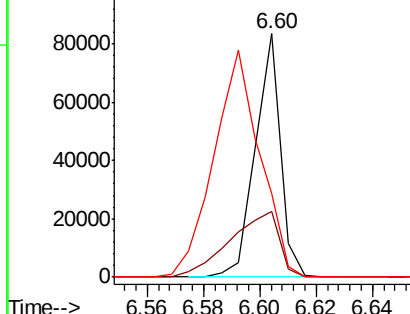
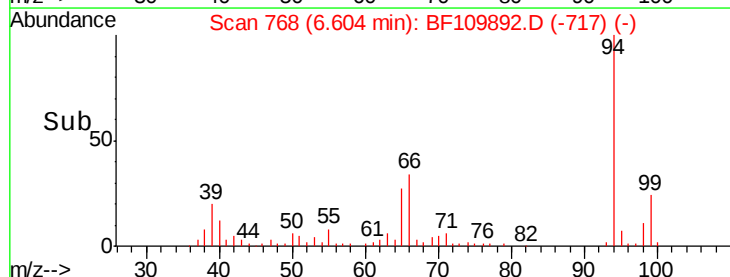
94 100

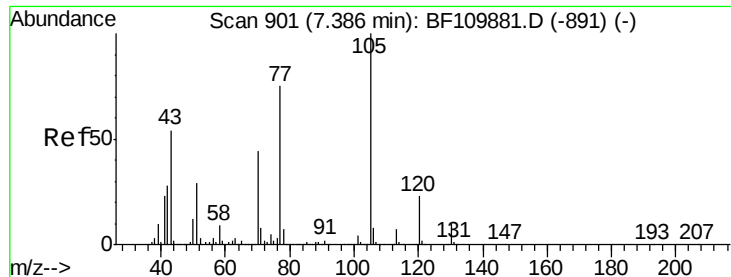
65 26.9 25.3 65.3

66 34.2 54.5 94.5#



Abundance Ion 94.00 (93.70 to 94.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1

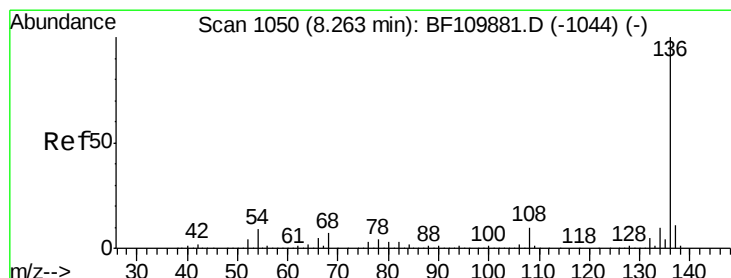
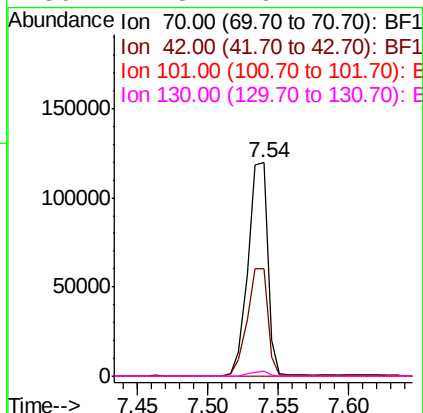
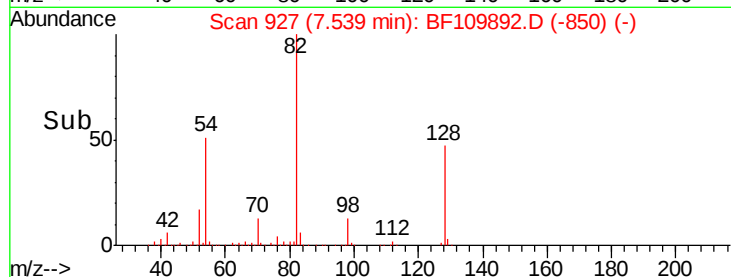
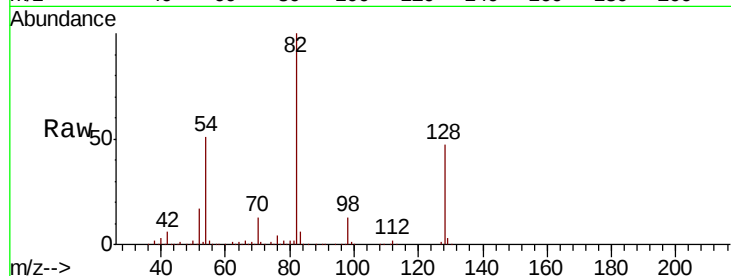




#19  
n-Nitroso-di-n-propylamine  
Concen: 9.617 ng  
RT: 7.54 min Scan# 927  
Delta R.T. 0.15 min  
Lab File: BF109892.D  
Acq: 15 Oct 2018 21:14

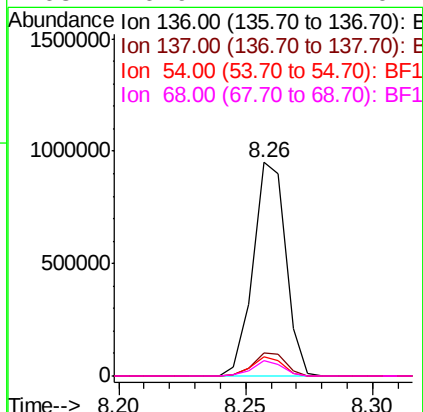
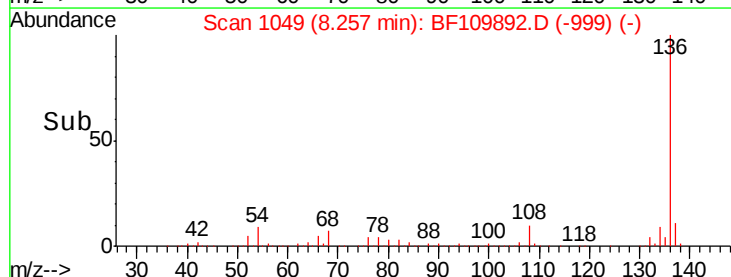
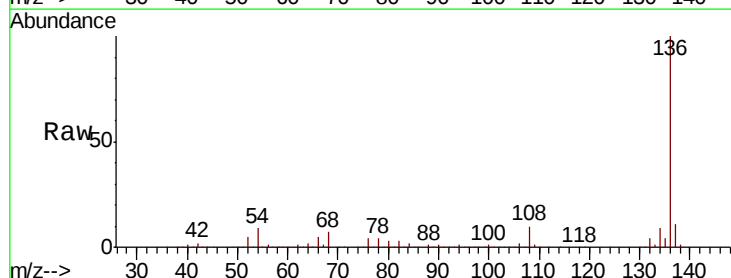
Instrument :  
BNA\_F  
ClientSampleId :

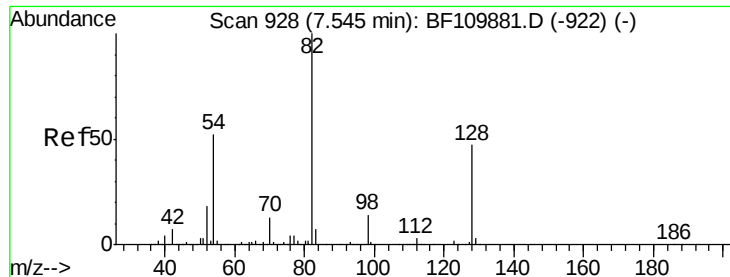
Tot Ion: 70 Resp: 118578  
Ion Ratio Lower Upper  
70 100  
42 50.2 47.4 71.2  
101 0.0 7.3 10.9#  
130 2.3 16.2 24.2#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.26 min Scan# 1049  
Delta R.T. -0.01 min  
Lab File: BF109892.D  
Acq: 15 Oct 2018 21:14

Tgt Ion:136 Resp: 860242  
Ion Ratio Lower Upper  
136 100  
137 11.0 8.8 13.2  
54 9.0 5.4 8.2#  
68 6.9 4.2 6.2#

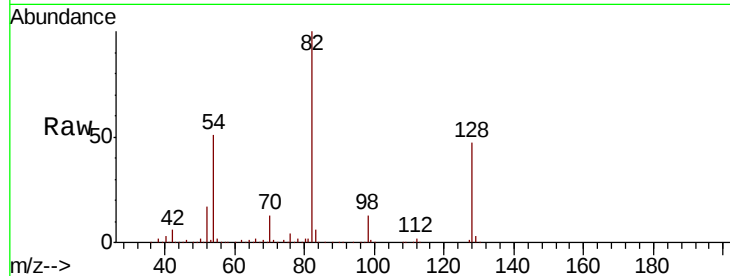




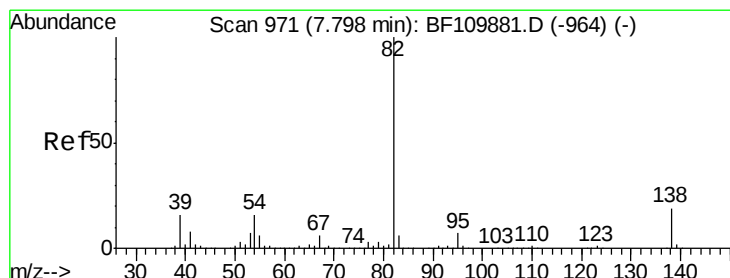
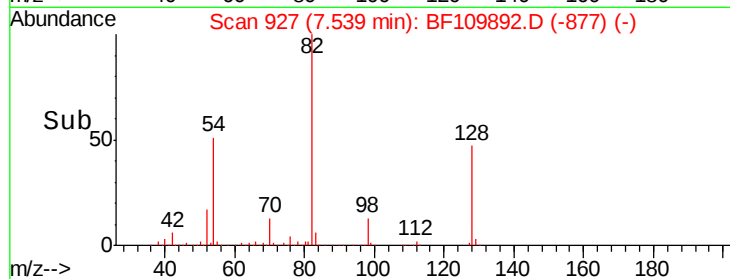
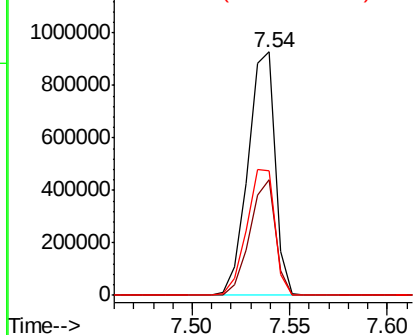
#23  
 Nitrobenzene-d5  
 Concen: 70.062 ng  
 RT: 7.54 min Scan# 927  
 Delta R.T. -0.01 min  
 Lab File: BF109892.D  
 Acq: 15 Oct 2018 21:14

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion   | 82    | Resp  | 894696 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 47.2  | 34.2  | 51.2   |
| 54        | 51.4  | 38.6  | 58.0   |

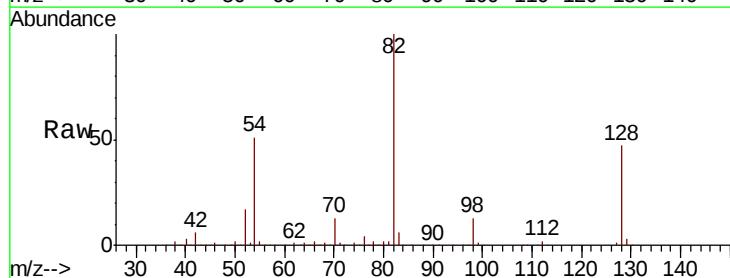


Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1

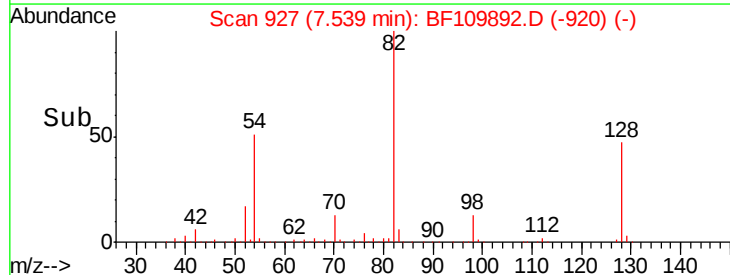
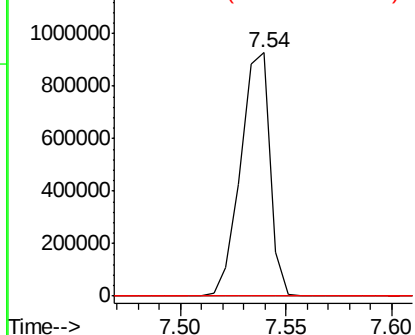


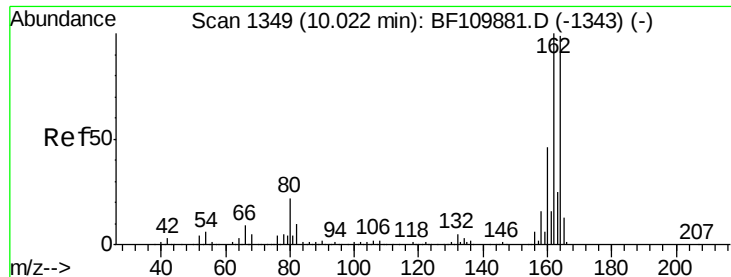
#25  
 Isophorone  
 Concen: 35.656 ng  
 RT: 7.54 min Scan# 927  
 Delta R.T. -0.26 min  
 Lab File: BF109892.D  
 Acq: 15 Oct 2018 21:14

| Tgt Ion   | 82    | Resp  | 894680 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 95        | 0.0   | 5.7   | 8.5#   |
| 138       | 0.0   | 13.2  | 19.8#  |



Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 95.00 (94.70 to 95.70): BF1  
 Ion 138.00 (137.70 to 138.70): BF1

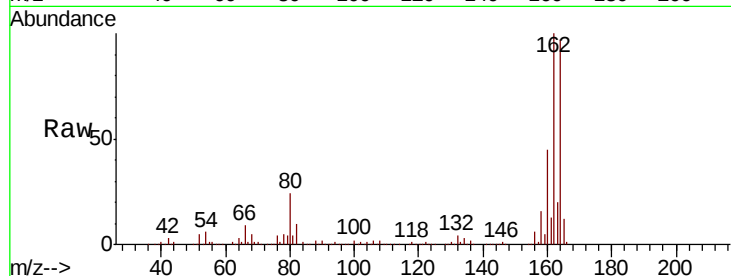




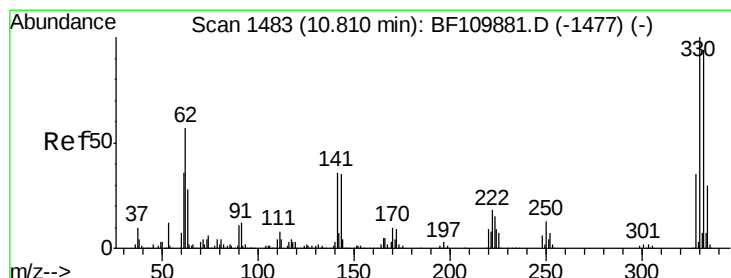
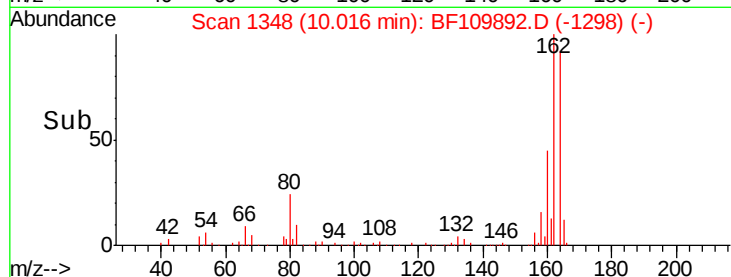
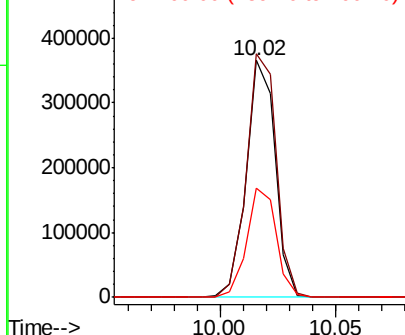
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.02 min Scan# 1348  
Delta R.T. -0.01 min  
Lab File: BF109892.D  
Acq: 15 Oct 2018 21:14

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:164 Resp: 321726  
Ion Ratio Lower Upper  
164 100  
162 102.7 83.0 124.6  
160 46.4 37.0 55.6

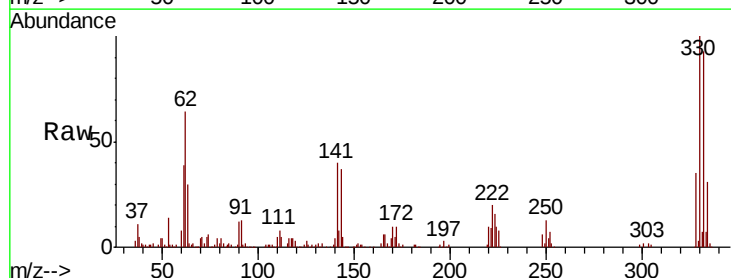


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

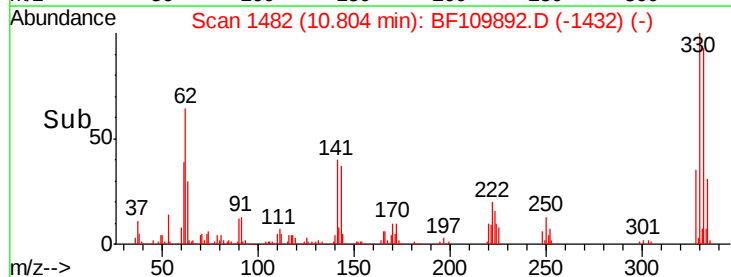
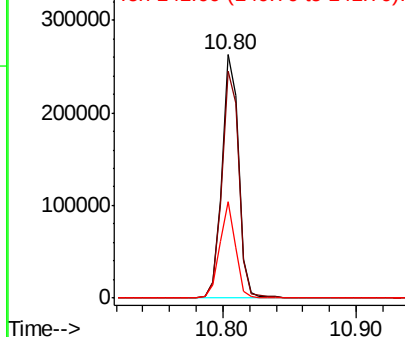


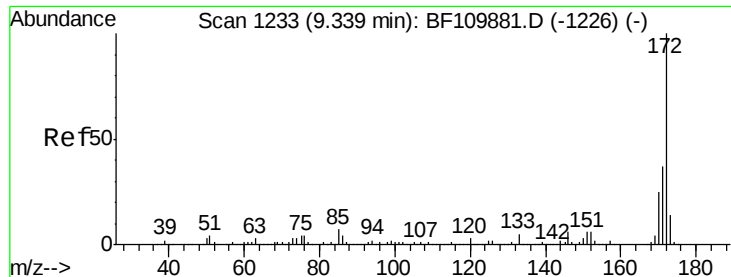
#42  
2,4,6-Tribromophenol  
Concen: 84.037 ng  
RT: 10.80 min Scan# 1482  
Delta R.T. -0.01 min  
Lab File: BF109892.D  
Acq: 15 Oct 2018 21:14

Tgt Ion:330 Resp: 234079  
Ion Ratio Lower Upper  
330 100  
332 94.6 77.1 115.7  
141 37.6 27.0 40.4



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

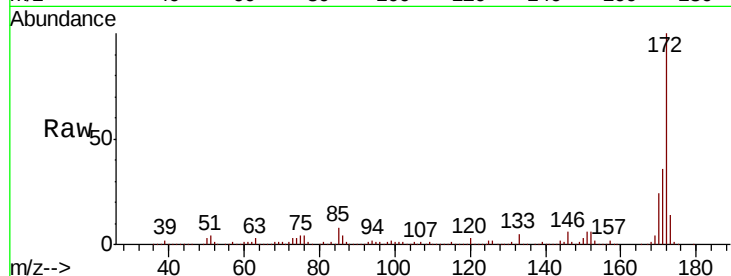




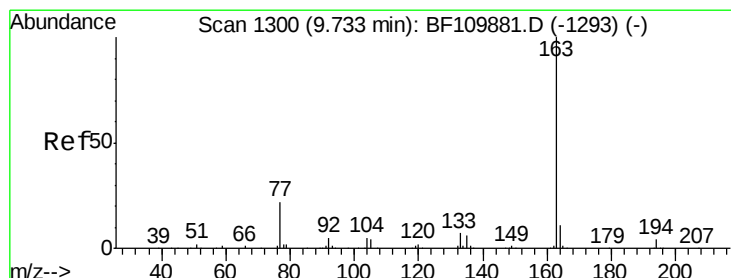
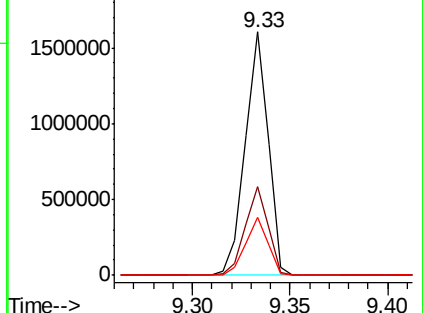
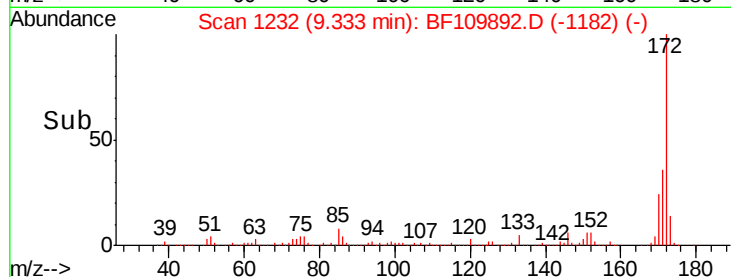
#45  
2-Fluorobiphenyl  
Concen: 64.865 ng  
RT: 9.33 min Scan# 1232  
Delta R.T. -0.01 min  
Lab File: BF109892.D  
Acq: 15 Oct 2018 21:14

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 1307852  
Ion Ratio Lower Upper  
172 100  
171 36.3 28.6 43.0  
170 24.0 19.7 29.5

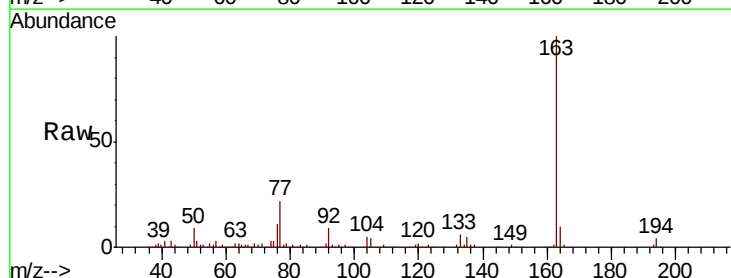


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

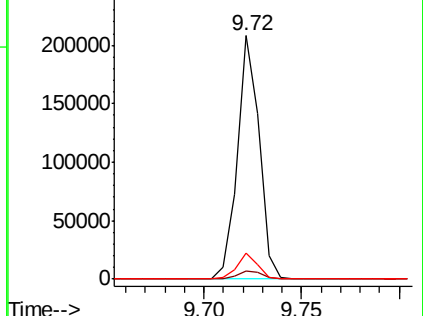
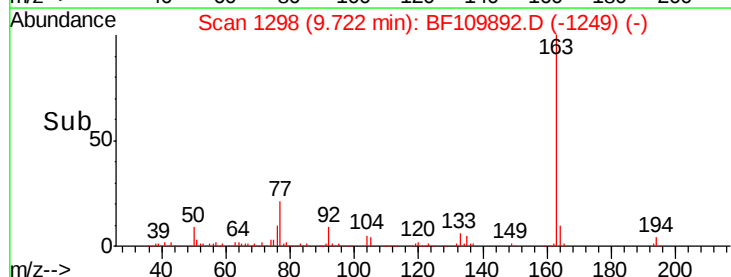


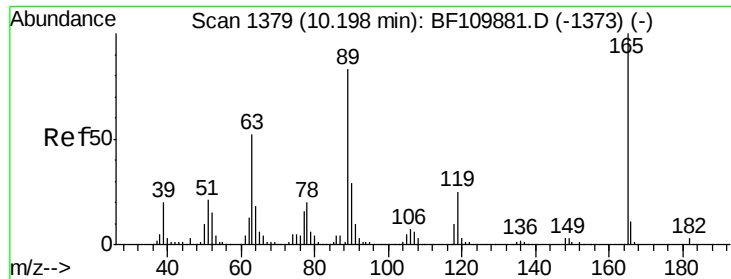
#50  
Dimethylphthalate  
Concen: 7.041 ng  
RT: 9.72 min Scan# 1298  
Delta R.T. -0.01 min  
Lab File: BF109892.D  
Acq: 15 Oct 2018 21:14

Tgt Ion:163 Resp: 160396  
Ion Ratio Lower Upper  
163 100  
194 3.6 3.2 4.8  
164 10.5 8.1 12.1



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

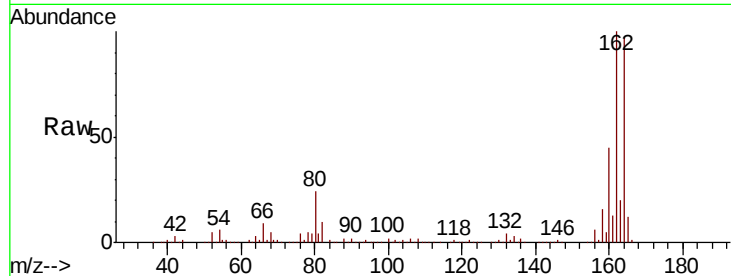




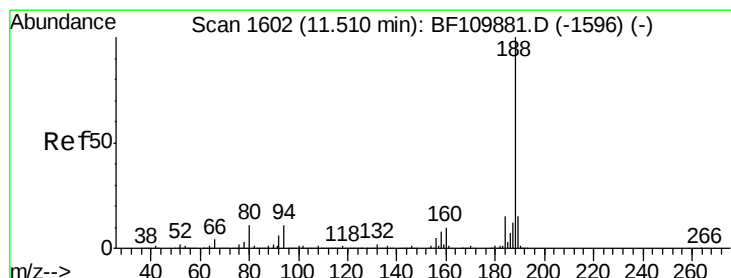
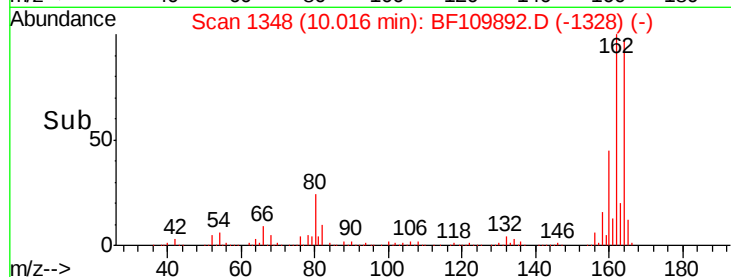
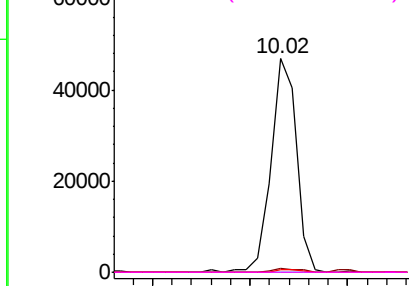
#57  
 2,4-Dinitrotoluene  
 Concen: 11.549 ng  
 RT: 10.02 min Scan# 1348  
 Delta R.T. -0.18 min  
 Lab File: BF109892.D  
 Acq: 15 Oct 2018 21:14

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.7   | 44.8  | 67.2# |
| 89      | 1.5   | 62.2  | 93.4# |
| 182     | 0.0   | 2.1   | 3.1#  |

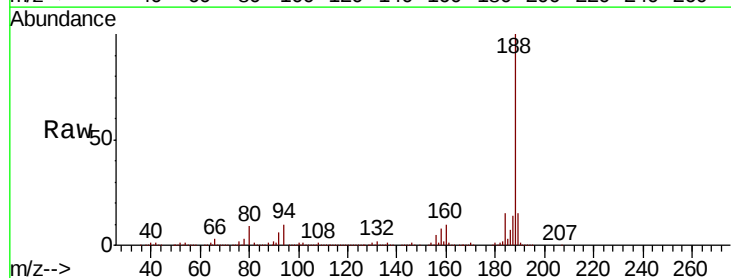


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1  
 Ion 182.00 (181.70 to 182.70): E

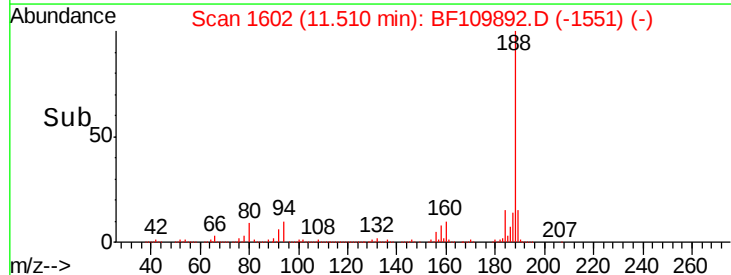
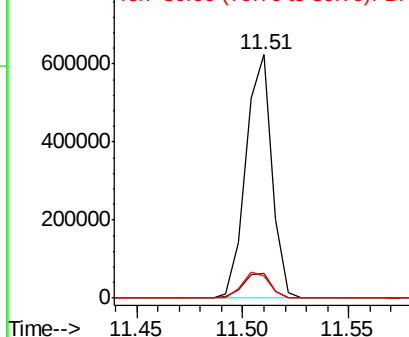


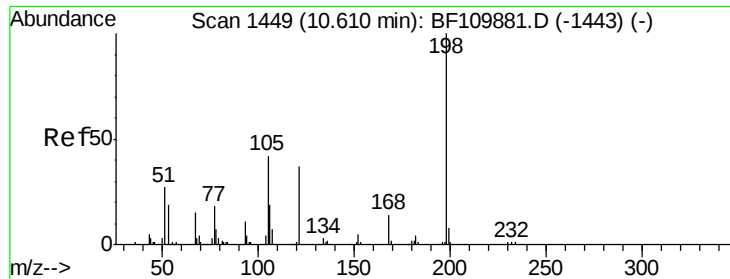
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.51 min Scan# 1602  
 Delta R.T. -0.00 min  
 Lab File: BF109892.D  
 Acq: 15 Oct 2018 21:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.2  | 7.2   | 10.8  |
| 80      | 9.3   | 7.9   | 11.9  |



Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF1  
 Ion 80.00 (79.70 to 80.70): BF1

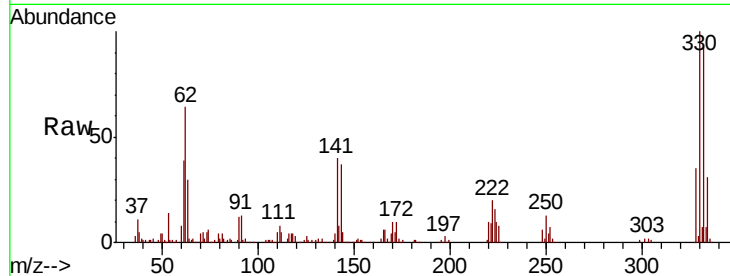




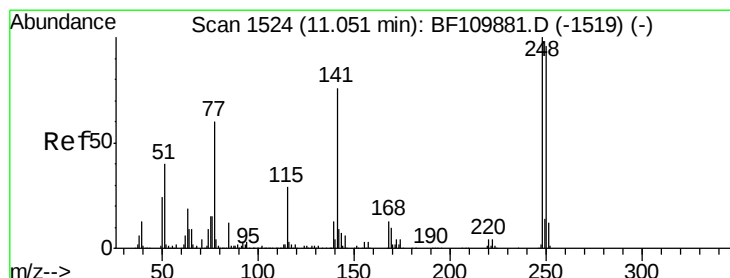
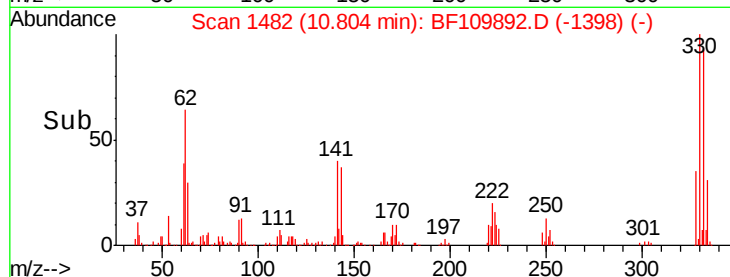
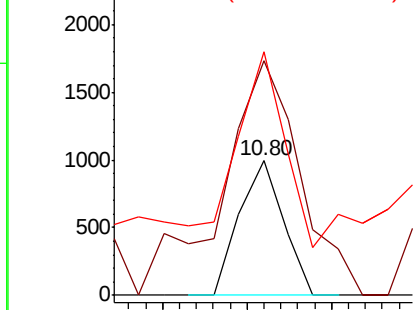
#65  
 4,6-Dinitro-2-methylphenol  
 Concen: 8.216 ng  
 RT: 10.80 min Scan# 1482  
 Delta R.T. 0.19 min  
 Lab File: BF109892.D  
 Acq: 15 Oct 2018 21:14

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:198 Resp: 719  
 Ion Ratio Lower Upper  
 198 100  
 51 174.0 22.8 62.8#  
 105 181.0 23.6 63.6#

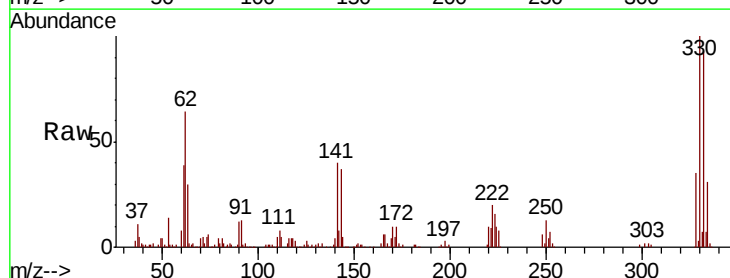


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF1  
 Ion 105.00 (104.70 to 105.70): E

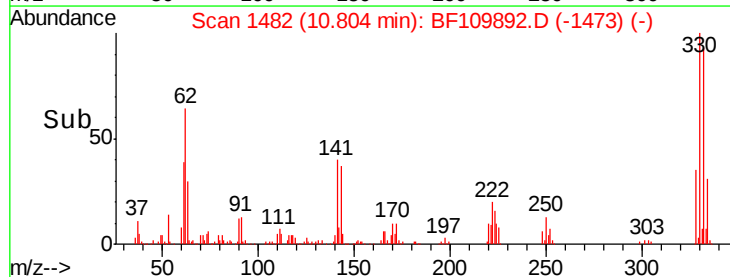
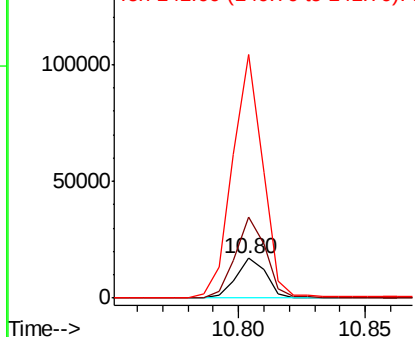


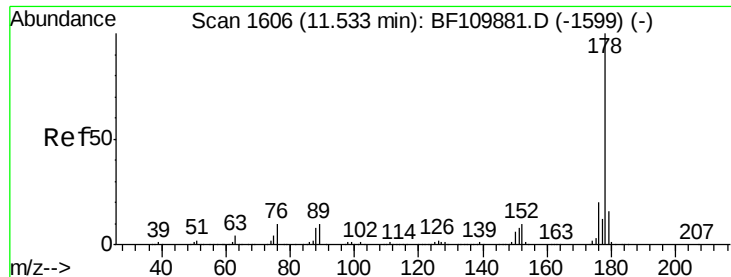
#67  
 4-Bromophenyl-phenylether  
 Concen: 2.474 ng  
 RT: 10.80 min Scan# 1482  
 Delta R.T. -0.25 min  
 Lab File: BF109892.D  
 Acq: 15 Oct 2018 21:14

Tgt Ion:248 Resp: 14282  
 Ion Ratio Lower Upper  
 248 100  
 250 204.3 79.4 119.2#  
 141 610.4 55.9 83.9#



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





#71

Phenanthrene

Concen: 2.052 ng

RT: 11.53 min Scan# 1606

Delta R.T. -0.00 min

Lab File: BF109892.D

Acq: 15 Oct 2018 21:14

Instrument :

BNA\_F

ClientSampleId :

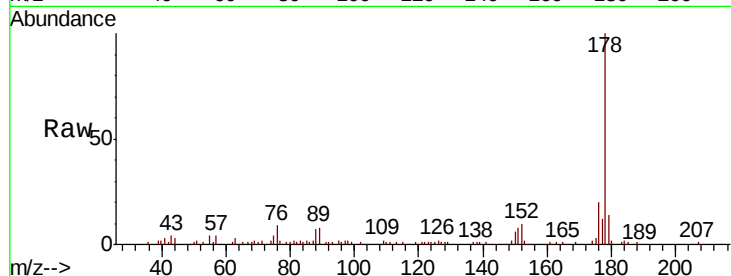
Tot Ion:178 Resp: 56578

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 19.8  | 15.5  | 23.3  |
| 179 | 14.1  | 12.5  | 18.7  |

178 100

176 19.8 15.5 23.3

179 14.1 12.5 18.7

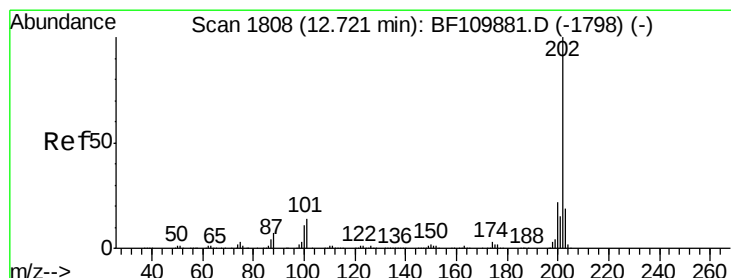
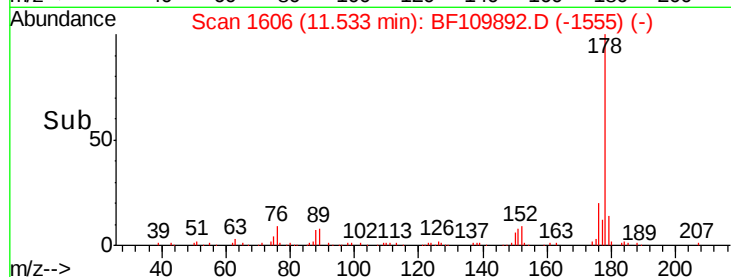
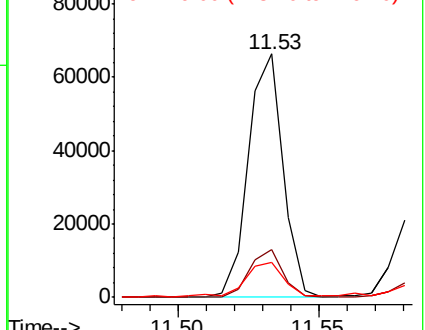


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75

Fluoranthene

Concen: 4.999 ng

RT: 12.72 min Scan# 1808

Delta R.T. -0.00 min

Lab File: BF109892.D

Acq: 15 Oct 2018 21:14

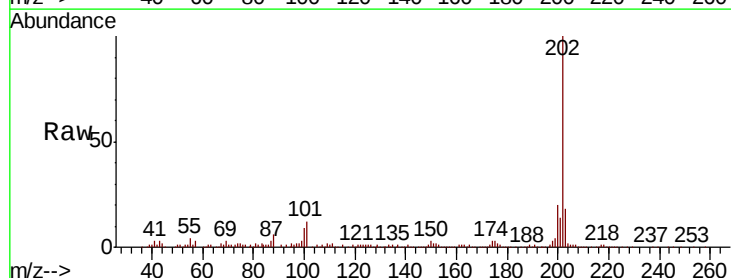
Tgt Ion:202 Resp: 137703

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 11.6  | 0.0   | 31.4  |
| 203 | 17.6  | 0.0   | 37.7  |

202 100

101 11.6 0.0 31.4

203 17.6 0.0 37.7

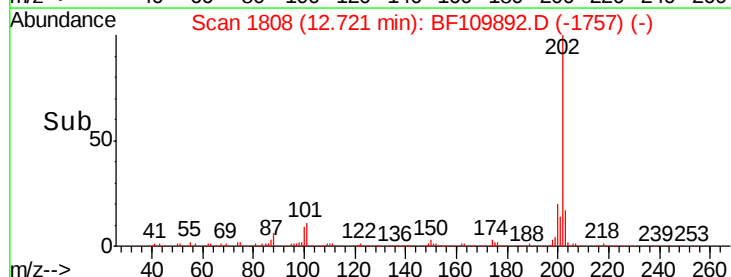
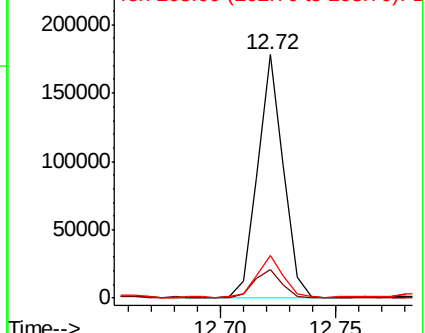


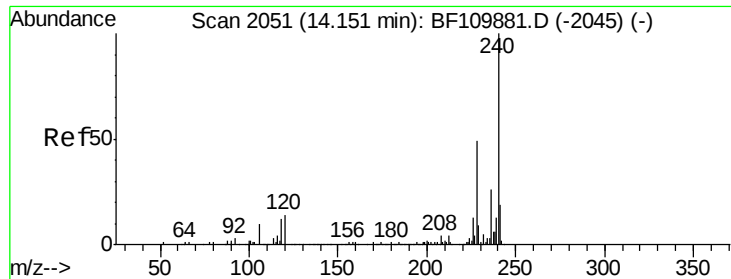
Abundance

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

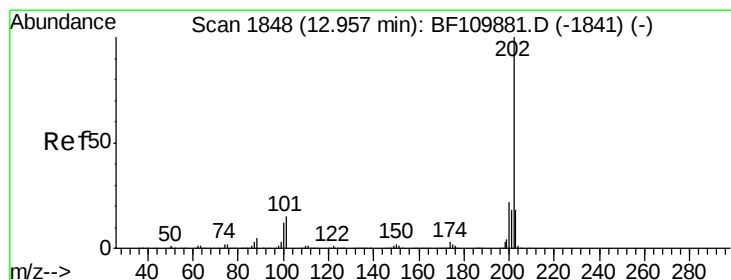
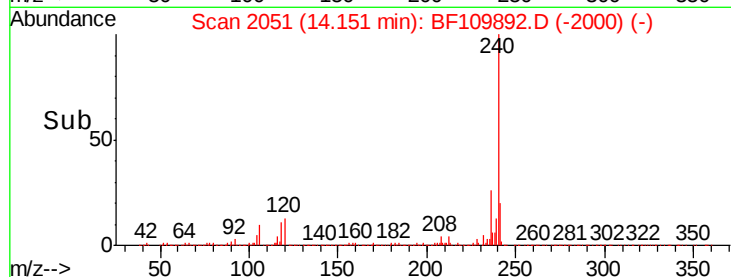
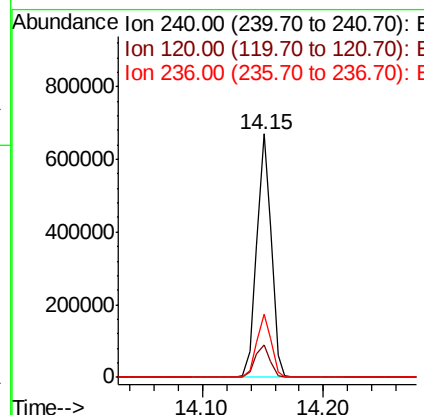
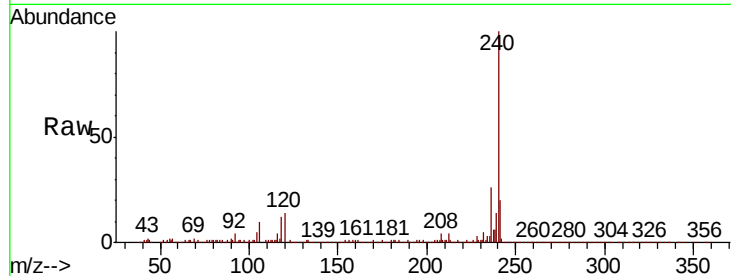




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.15 min Scan# 2051  
Delta R.T. -0.00 min  
Lab File: BF109892.D  
Acq: 15 Oct 2018 21:14

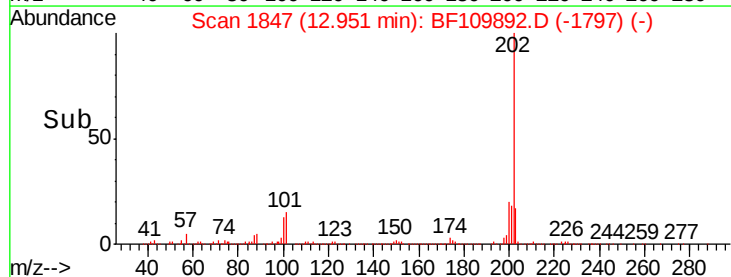
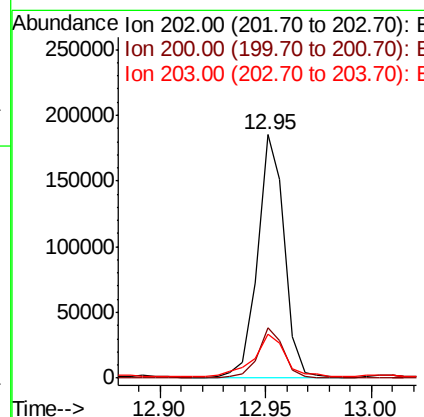
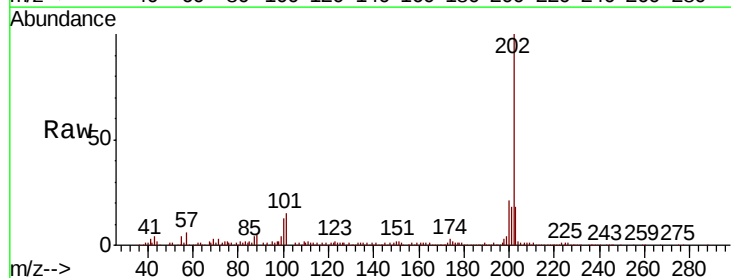
Instrument :  
BNA\_F  
ClientSampleId :

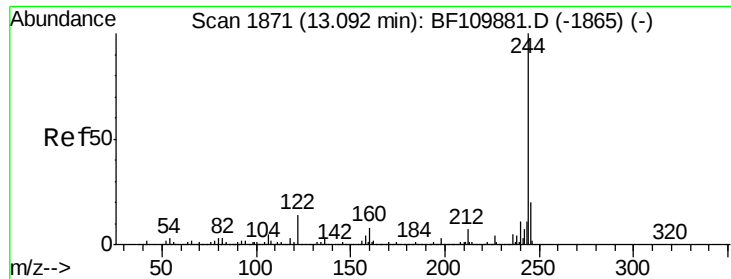
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 13.5  | 8.3   | 12.5# |
| 236     | 25.8  | 21.2  | 31.8  |



#78  
Pyrene  
Concen: 3.933 ng  
RT: 12.95 min Scan# 1847  
Delta R.T. -0.01 min  
Lab File: BF109892.D  
Acq: 15 Oct 2018 21:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.5  | 17.8  | 26.6  |
| 203     | 17.8  | 14.2  | 21.4  |

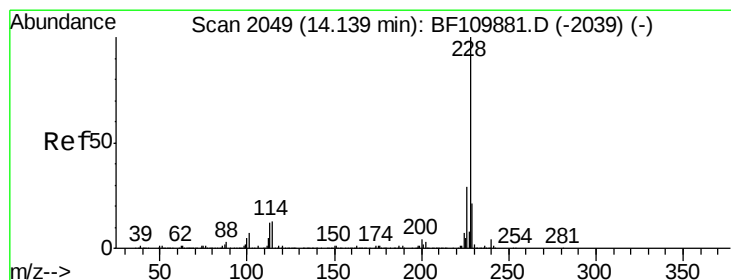
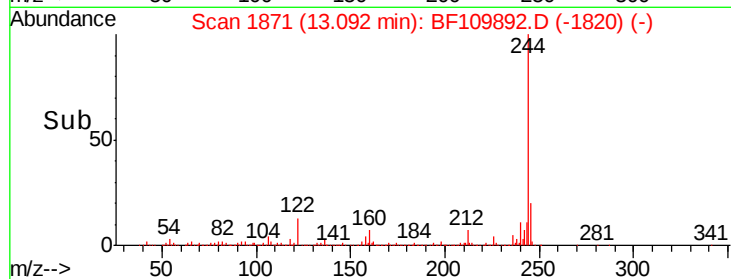
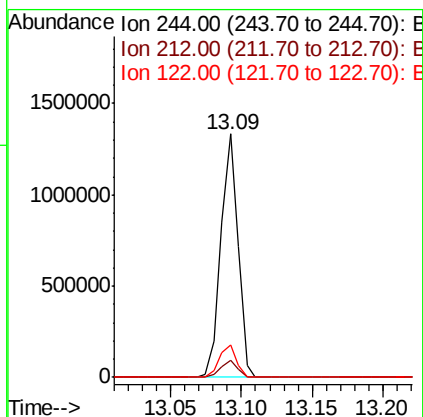
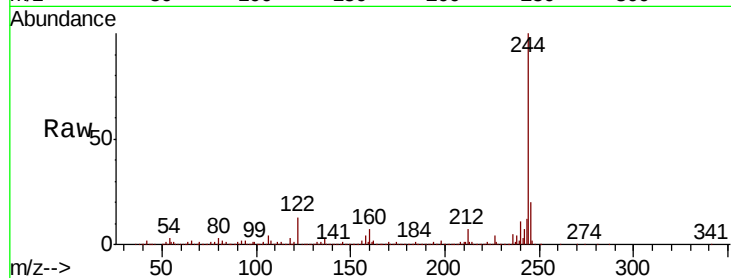




#79  
 Terphenyl-d14  
 Concen: 42.145 ng  
 RT: 13.09 min Scan# 1871  
 Delta R.T. -0.00 min  
 Lab File: BF109892.D  
 Acq: 15 Oct 2018 21:14

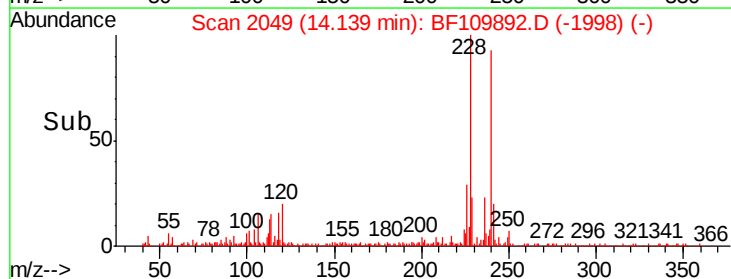
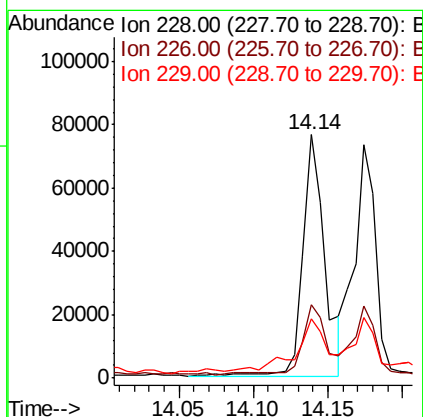
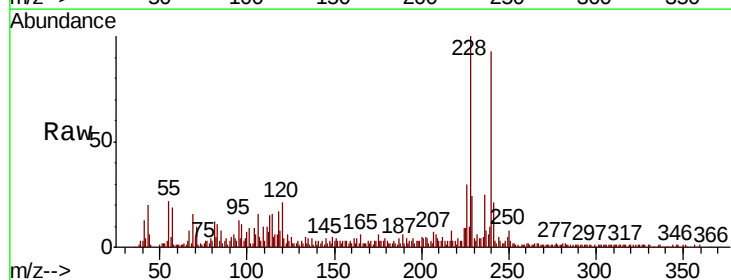
Instrument :  
 BNA\_F  
 ClientSampleId :

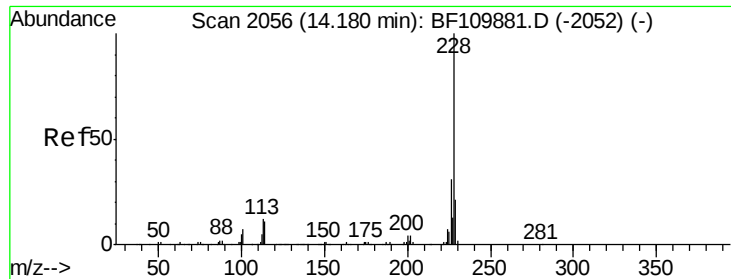
Tot Ion:244 Resp: 1129006  
 Ion Ratio Lower Upper  
 244 100  
 212 7.0 5.8 8.8  
 122 13.1 8.7 13.1#



#81  
 Benzo(a)anthracene  
 Concen: 2.334 ng  
 RT: 14.14 min Scan# 2049  
 Delta R.T. -0.00 min  
 Lab File: BF109892.D  
 Acq: 15 Oct 2018 21:14

Tgt Ion:228 Resp: 77322  
 Ion Ratio Lower Upper  
 228 100  
 226 30.4 22.1 33.1  
 229 24.5 15.6 23.4#





#83

Chrysene

Concen: 2.331 ng

RT: 14.17 min Scan# 2055

Delta R.T. -0.01 min

Lab File: BF109892.D

Acq: 15 Oct 2018 21:14

Instrument :

BNA\_F

ClientSampleId :

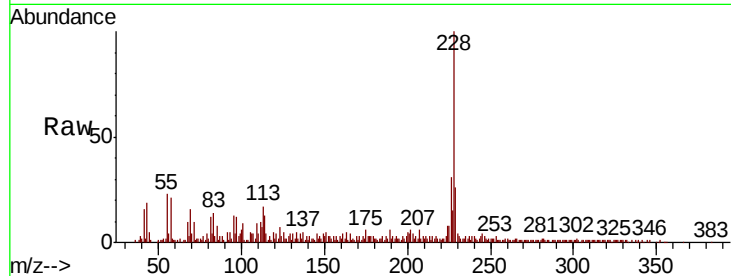
Tot Ion:228 Resp: 73515

Ion Ratio Lower Upper

228 100

226 30.7 24.7 37.1

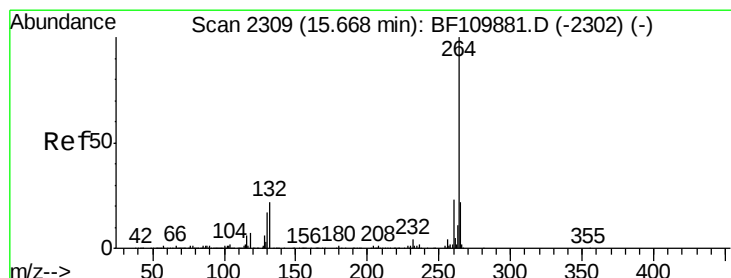
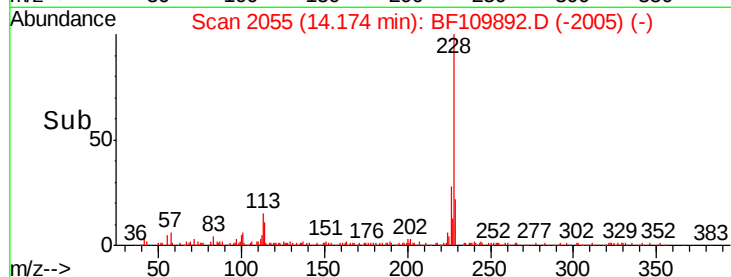
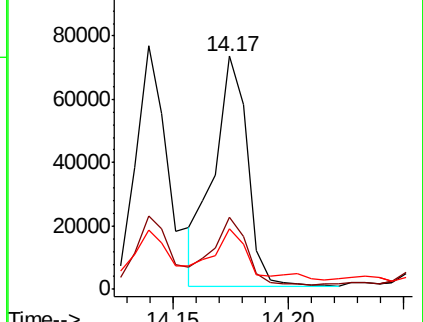
229 25.8 15.9 23.9#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.67 min Scan# 2310

Delta R.T. 0.01 min

Lab File: BF109892.D

Acq: 15 Oct 2018 21:14

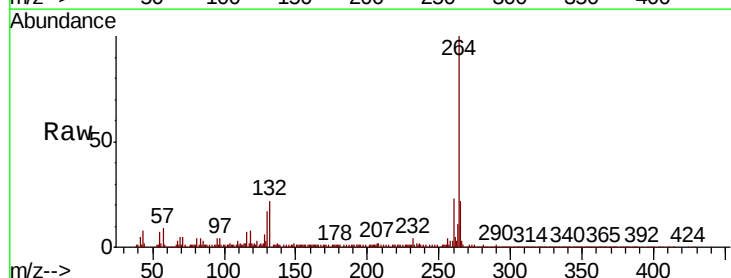
Tgt Ion:264 Resp: 420937

Ion Ratio Lower Upper

264 100

260 23.5 18.7 28.1

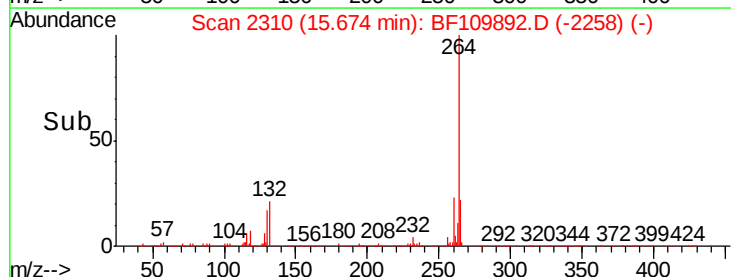
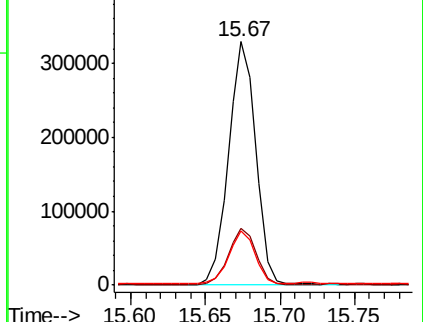
265 22.0 16.7 25.1

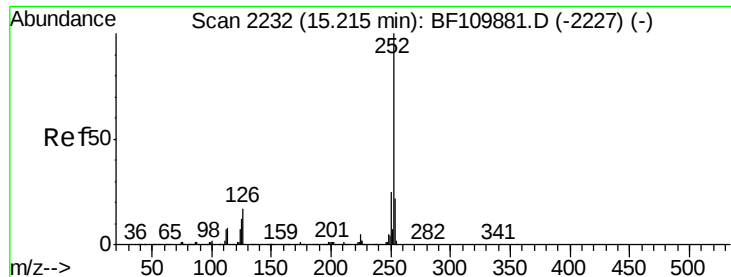


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

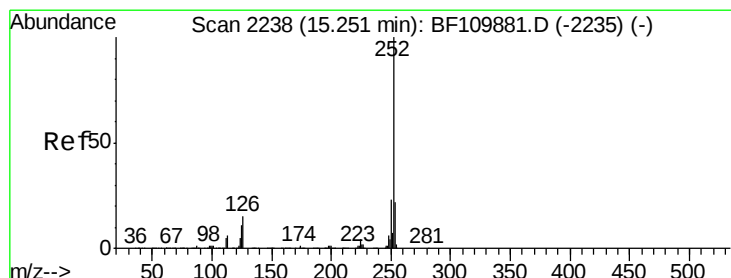
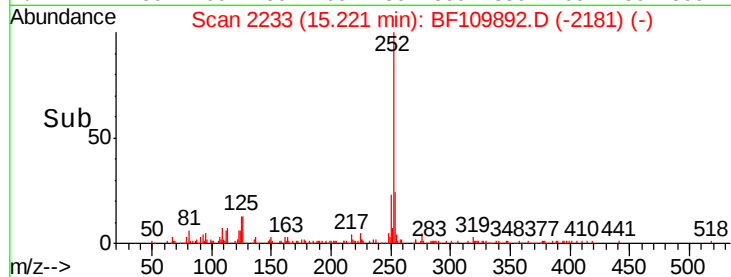
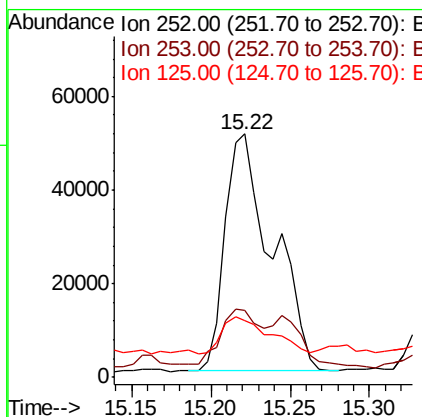
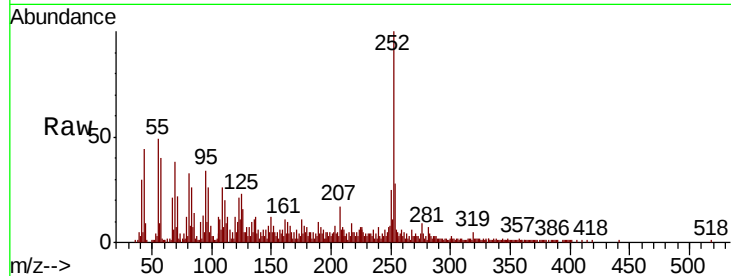




#88  
Benzo(b)fluoranthene  
Concen: 4.291 ng  
RT: 15.22 min Scan# 2233  
Delta R.T. 0.01 min  
Lab File: BF109892.D  
Acq: 15 Oct 2018 21:14

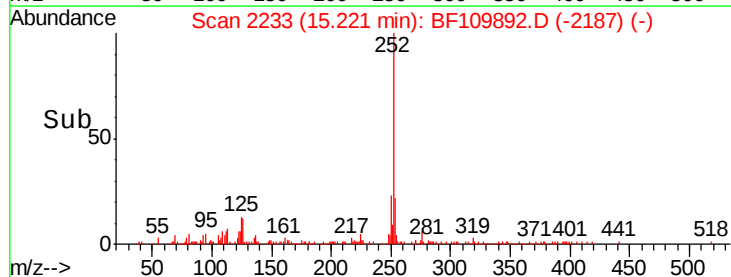
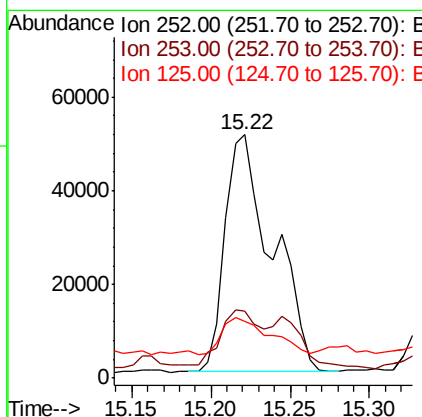
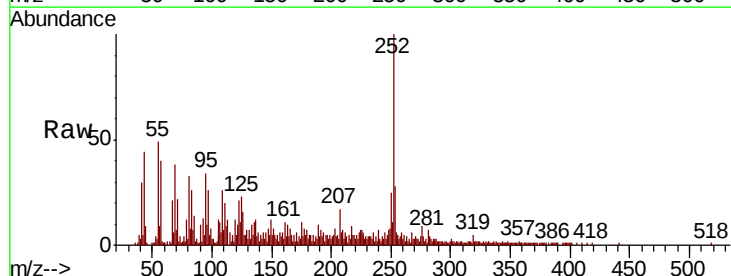
Instrument :  
BNA\_F  
ClientSampleId :

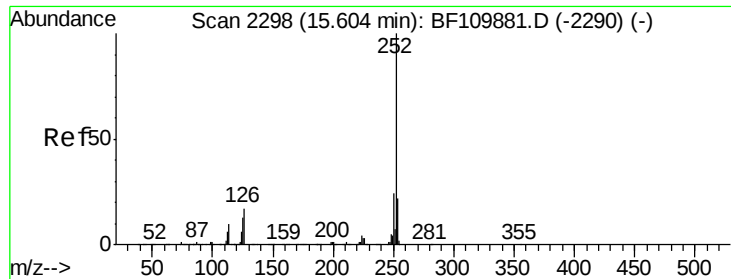
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 27.6  | 17.2  | 25.8# |
| 125     | 23.4  | 8.2   | 12.4# |



#89  
Benzo(k)fluoranthene  
Concen: 4.354 ng  
RT: 15.22 min Scan# 2233  
Delta R.T. -0.03 min  
Lab File: BF109892.D  
Acq: 15 Oct 2018 21:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 27.6  | 17.2  | 25.8# |
| 125     | 23.4  | 7.4   | 11.0# |





#90

Benzo(a)pyrene

Concen: 2.419 ng

RT: 15.60 min Scan# 2298

Delta R.T. -0.00 min

Lab File: BF109892.D

Acq: 15 Oct 2018 21:14

Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 252 Resp: 53990

Ion Ratio Lower Upper

252 100

253 27.7 18.2 27.4#

125 25.9 9.0 13.6#

