

Data Path : Z:\HPCHEM1\BNA F\DATA\BF021918\  
 Data File : BF103102.D  
 Acq On : 20 Feb 2018 00:55  
 Operator : SJ/JU  
 Sample : J1600-02 20X  
 Misc :  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Feb 20 02:18:12 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 16 14:34:49 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.87  | 152  | 165189   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.16  | 136  | 673147   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.92  | 164  | 277014   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.40 | 188  | 387785   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.06 | 240  | 244455   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.54 | 264  | 256139   | 20.00 | ng    | 0.00     |

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| System Monitoring Compounds |       |     |       |      |    |       |
| 5) 2-Fluorophenol           | 5.49  | 112 | 36367 | 3.34 | ng | 0.00  |
| 7) Phenol-d6                | 6.50  | 99  | 61558 | 4.70 | ng | 0.00  |
| 23) Nitrobenzene-d5         | 7.44  | 82  | 36598 | 3.77 | ng | 0.00  |
| 41) 2,4,6-Tribromophenol    | 10.70 | 330 | 9814  | 4.40 | ng | 0.00  |
| 44) 2-Fluorobiphenyl        | 9.23  | 172 | 78888 | 4.73 | ng | -0.01 |
| 78) Terphenyl-d14           | 12.99 | 244 | 53266 | 5.16 | ng | 0.00  |

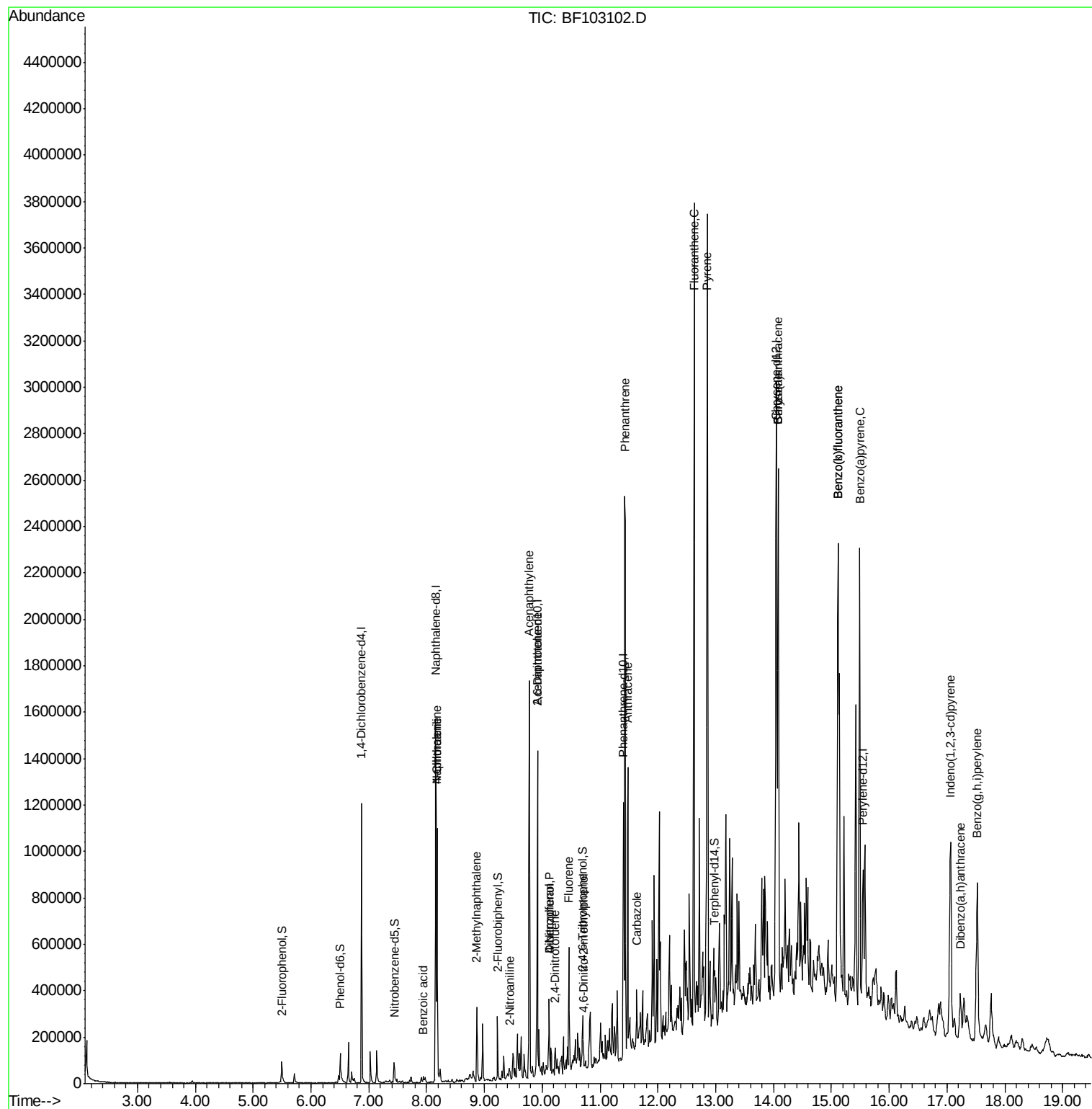
|                                |       |     |         |           |    |      |
|--------------------------------|-------|-----|---------|-----------|----|------|
| Target Compounds               |       |     |         | Qvalue    |    |      |
| 24) Nitrobenzene               | 7.48  | 77  | 472     | Below Cal | #  | 1    |
| 31) Naphthalene                | 8.18  | 128 | 436542  | 13.27     | ng | 99   |
| 32) Benzoic acid               | 7.95  | 122 | 973     | 8.68      | ng | # 27 |
| 33) 4-Chloroaniline            | 8.18  | 127 | 57145   | 4.03      | ng | # 36 |
| 37) 2-Methylnaphthalene        | 8.87  | 142 | 89522   | 4.16      | ng | 99   |
| 47) 2-Nitroaniline             | 9.44  | 65  | 610     | 3.57      | ng | # 2  |
| 48) Acenaphthylene             | 9.77  | 152 | 700339  | 24.55     | ng | 100  |
| 50) 2,6-Dinitrotoluene         | 9.92  | 165 | 39445   | 9.60      | ng | # 27 |
| 54) Dibenzofuran               | 10.12 | 168 | 108814  | 4.53      | ng | 98   |
| 55) 4-Nitrophenol              | 10.12 | 139 | 40925   | 13.38     | ng | # 11 |
| 56) 2,4-Dinitrotoluene         | 10.22 | 165 | 5329    | 3.98      | ng | # 60 |
| 57) Fluorene                   | 10.46 | 166 | 157915  | 9.03      | ng | 97   |
| 64) 4,6-Dinitro-2-methylphenol | 10.72 | 198 | 108     | 8.85      | ng | # 1  |
| 70) Phenanthrene               | 11.43 | 178 | 958204  | 44.37     | ng | 99   |
| 71) Anthracene                 | 11.48 | 178 | 439397  | 20.00     | ng | 99   |
| 72) Carbazole                  | 11.63 | 167 | 70891   | 3.29      | ng | 99   |
| 74) Fluoranthene               | 12.63 | 202 | 1606571 | 73.94     | ng | 99   |
| 77) Pyrene                     | 12.86 | 202 | 1617965 | 84.40     | ng | 99   |
| 80) Benzo(a)anthracene         | 14.08 | 228 | 852568  | 55.46     | ng | 95   |
| 82) Chrysene                   | 14.08 | 228 | 852568  | 55.01     | ng | 98   |
| 85) Indeno(1,2,3-cd)pyrene     | 17.06 | 276 | 555474  | 43.22     | ng | 95   |
| 87) Benzo(b)fluoranthene       | 15.12 | 252 | 1759368 | 105.95    | ng | # 94 |
| 88) Benzo(k)fluoranthene       | 15.12 | 252 | 1759368 | 110.88    | ng | 97   |
| 89) Benzo(a)pyrene             | 15.49 | 252 | 991900  | 66.36     | ng | 95   |
| 90) Dibenzo(a,h)anthracene     | 17.23 | 278 | 135375  | 11.16     | ng | 97   |
| 91) Benzo(g,h,i)perylene       | 17.53 | 276 | 561506  | 47.28     | ng | 98   |

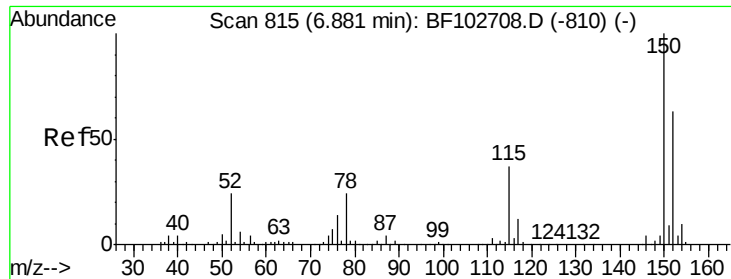
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
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Quant Time: Feb 20 02:18:12 2018  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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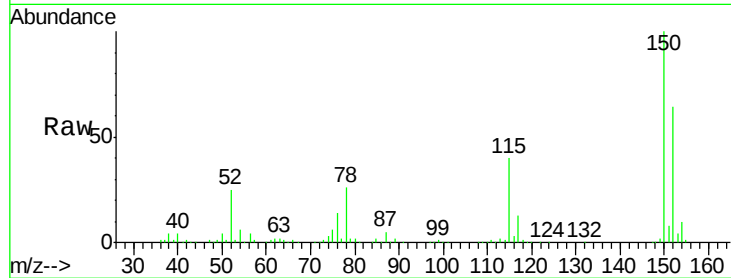


#1

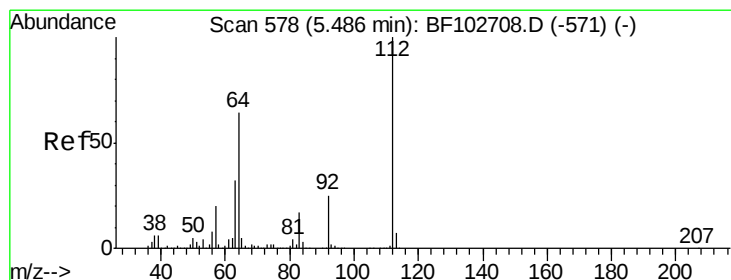
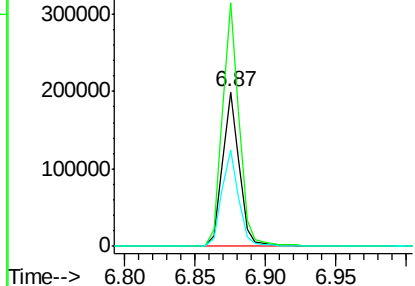
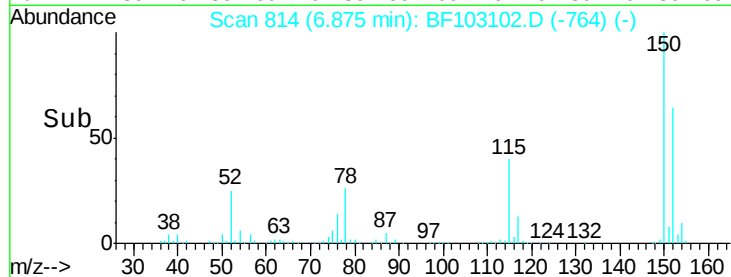
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.87 min Scan# 814  
Delta R.T. -0.01 min  
Lab File: BF103102.D  
Acq: 20 Feb 2018 00:55

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:152 Resp: 165189  
Ion Ratio Lower Upper  
152 100  
150 157.4 124.6 186.8  
115 62.4 50.1 75.1



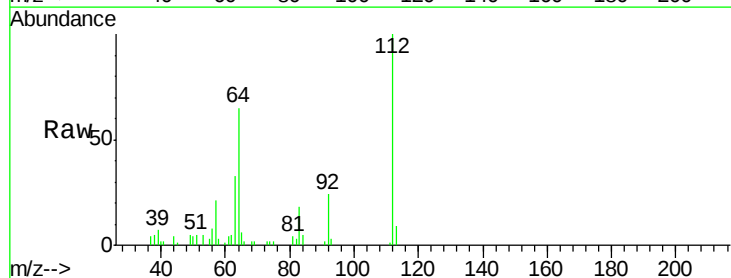
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



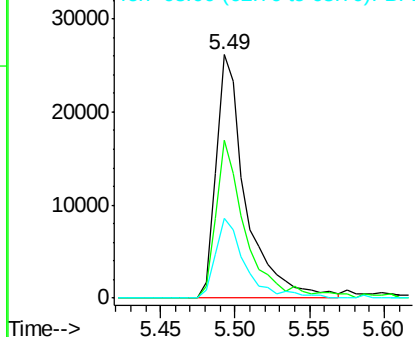
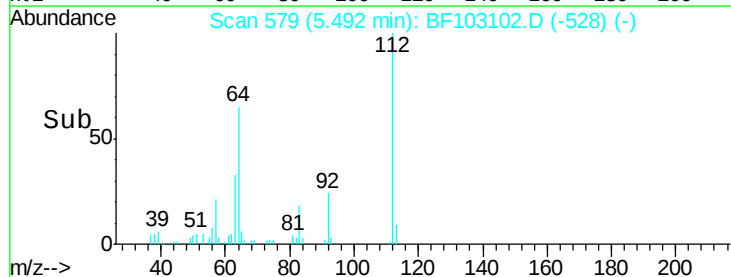
#5

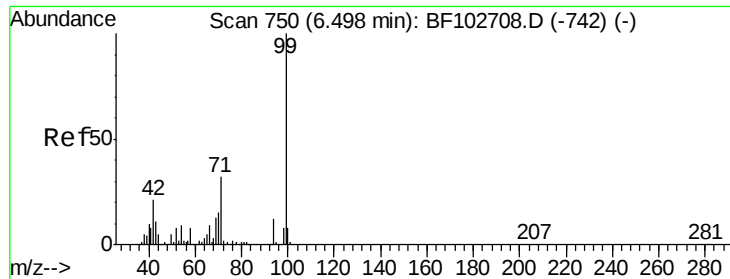
2-Fluorophenol  
Concen: 3.34 ng  
RT: 5.49 min Scan# 579  
Delta R.T. -0.00 min  
Lab File: BF103102.D  
Acq: 20 Feb 2018 00:55

Tgt Ion:112 Resp: 36367  
Ion Ratio Lower Upper  
112 100  
64 64.6 47.9 71.9  
63 32.8 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: 4.70 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.01 min

Lab File: BF103102.D

Acq: 20 Feb 2018 00:55

Instrument :

BNA\_F

ClientSampleId :

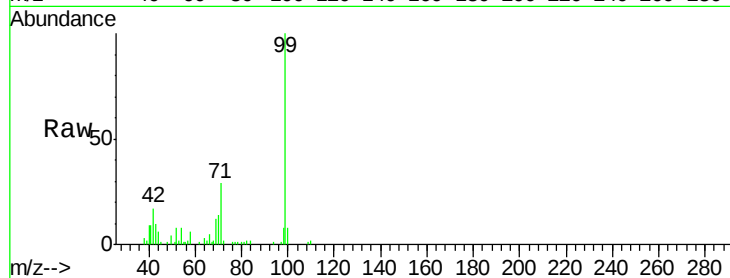
Tot Ion: 99 Resp: 61558

Ion Ratio Lower Upper

99 100

42 16.9 14.5 21.7

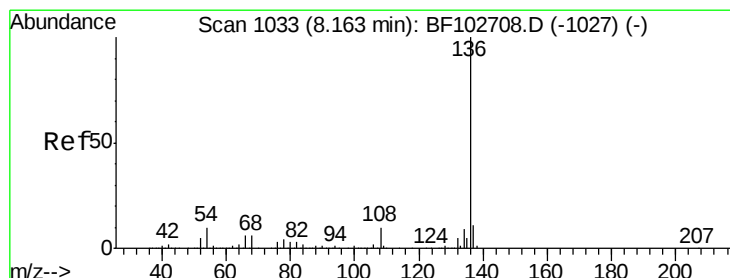
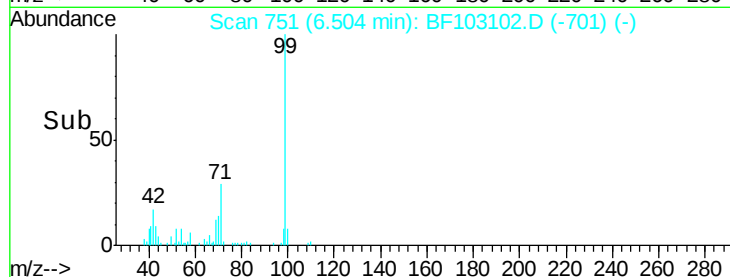
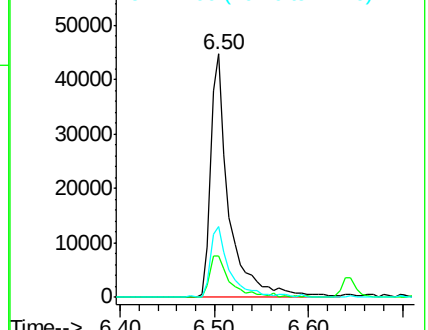
71 29.3 25.4 38.0



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.16 min Scan# 1032

Delta R.T. -0.01 min

Lab File: BF103102.D

Acq: 20 Feb 2018 00:55

Tgt Ion: 136 Resp: 673147

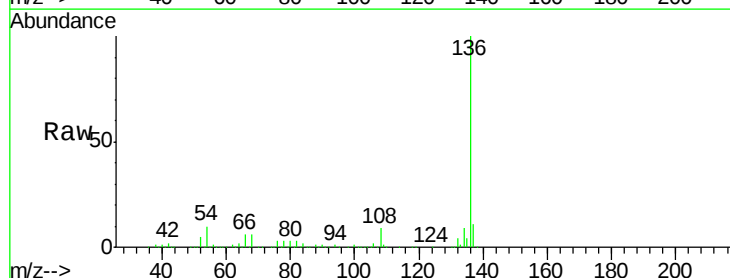
Ion Ratio Lower Upper

136 100

137 11.2 8.9 13.3

54 10.1 6.6 9.8#

68 6.4 5.0 7.4

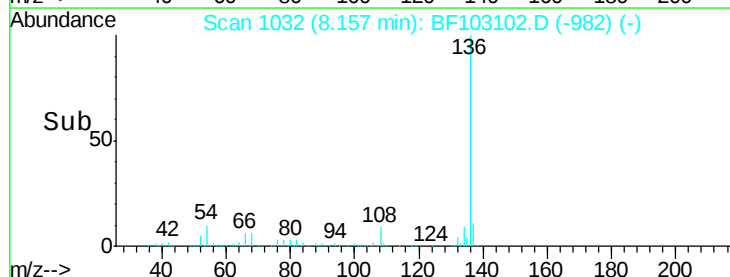
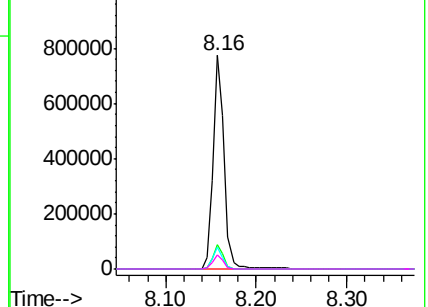


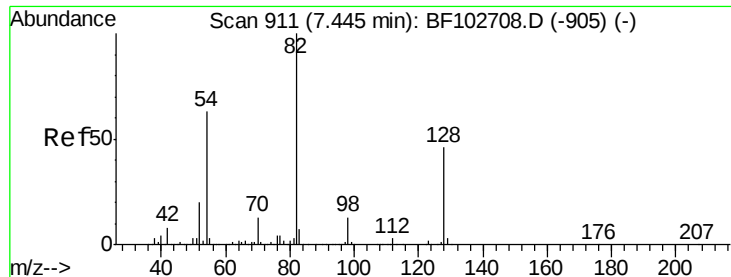
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

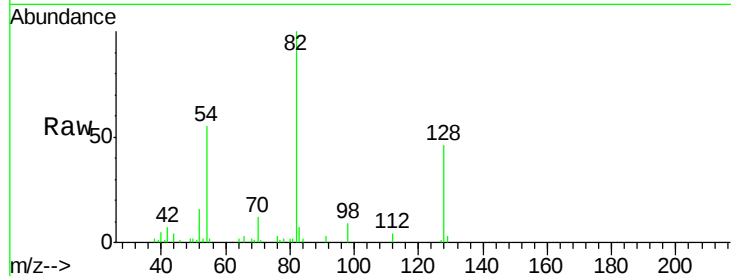




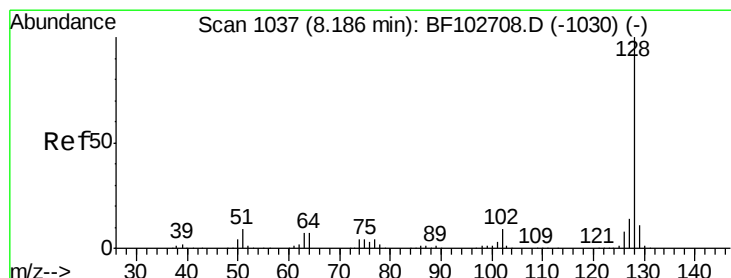
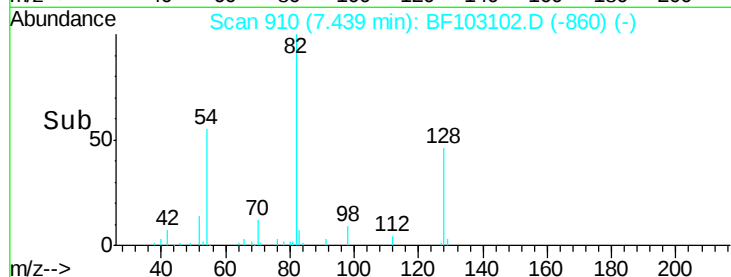
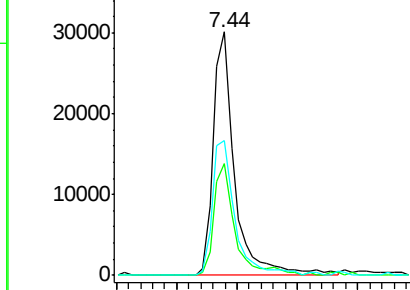
#23  
Nitrobenzene-d5  
Concen: 3.77 ng  
RT: 7.44 min Scan# 910  
Delta R.T. -0.01 min  
Lab File: BF103102.D  
Acq: 20 Feb 2018 00:55

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion   | 82    | Resp  | 36598 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 46.0  | 36.1  | 54.1  |
| 54        | 55.5  | 41.4  | 62.2  |

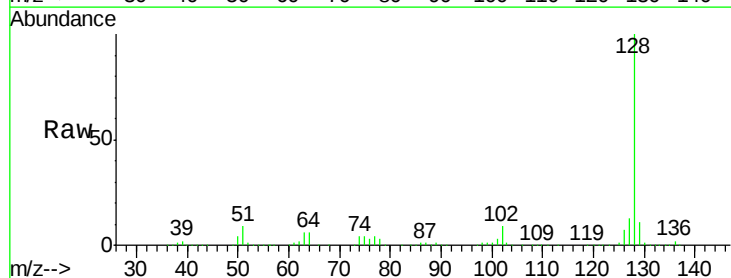


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF1

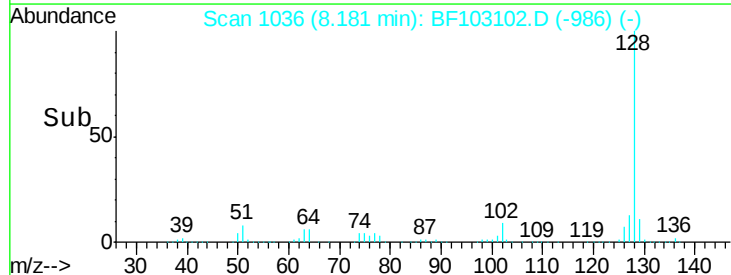
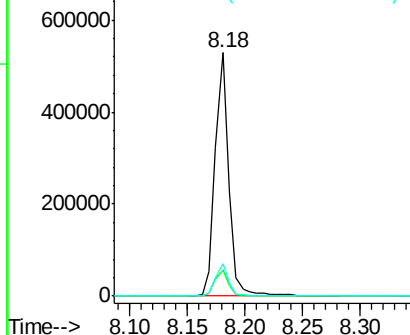


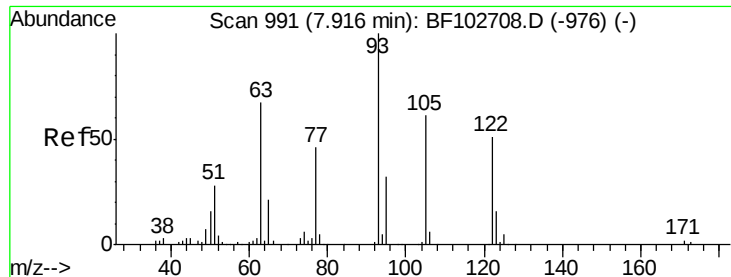
#31  
Naphthalene  
Concen: 13.27 ng  
RT: 8.18 min Scan# 1036  
Delta R.T. -0.01 min  
Lab File: BF103102.D  
Acq: 20 Feb 2018 00:55

| Tgt Ion   | 128   | Resp  | 436542 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 129       | 10.6  | 8.8   | 13.2   |
| 127       | 13.4  | 10.9  | 16.3   |



Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

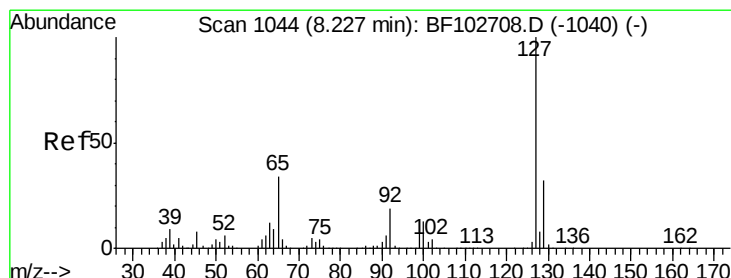
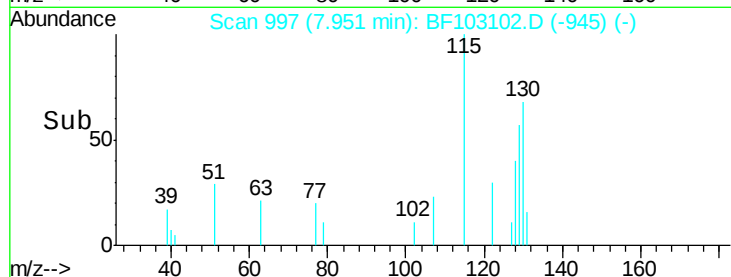
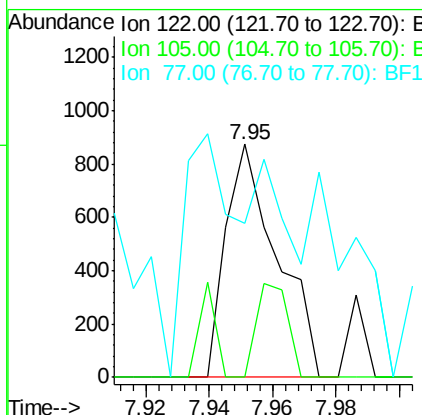
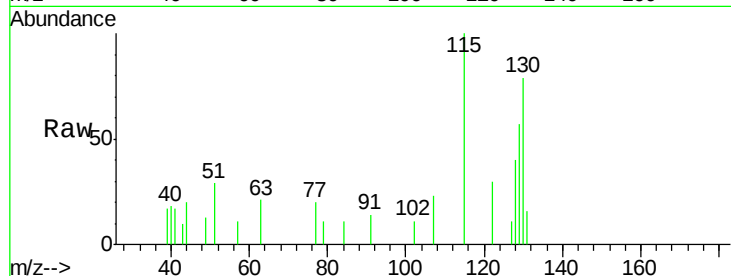




#32  
Benzoic acid  
Concen: 8.68 ng  
RT: 7.95 min Scan# 997  
Delta R.T. 0.01 min  
Lab File: BF103102.D  
Acq: 20 Feb 2018 00:55

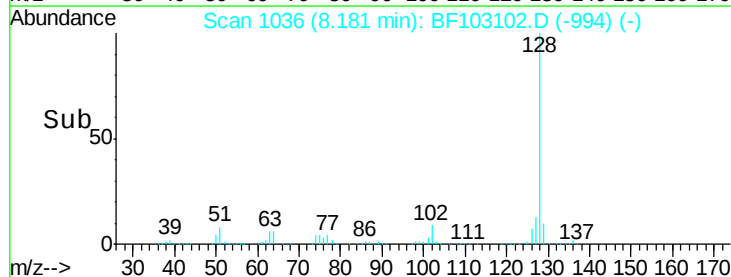
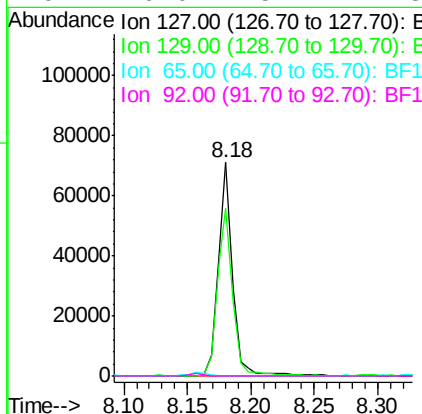
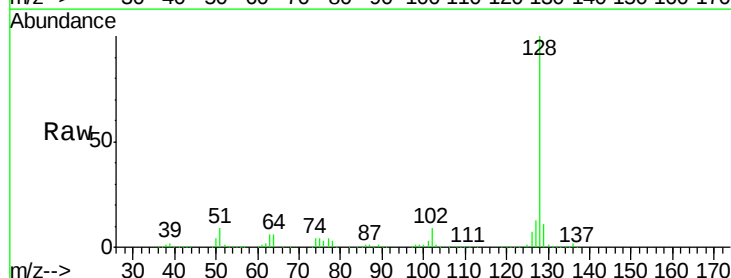
Instrument :  
BNA\_F  
ClientSampleId :

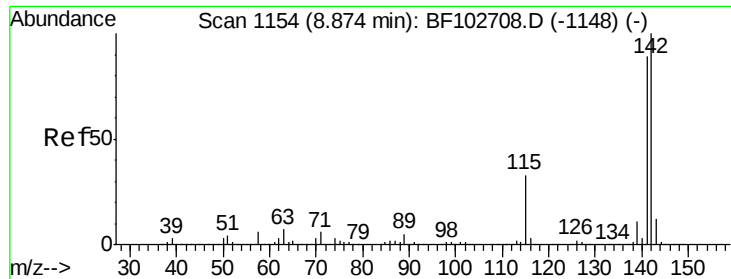
Tot Ion:122 Resp: 973  
Ion Ratio Lower Upper  
122 100  
105 0.0 101.1 141.1#  
77 66.4 70.7 110.7#



#33  
4-Chloroaniline  
Concen: 4.03 ng  
RT: 8.18 min Scan# 1036  
Delta R.T. -0.05 min  
Lab File: BF103102.D  
Acq: 20 Feb 2018 00:55

Tgt Ion:127 Resp: 57145  
Ion Ratio Lower Upper  
127 100  
129 78.8 25.9 38.9#  
65 0.0 25.0 37.4#  
92 0.0 15.2 22.8#

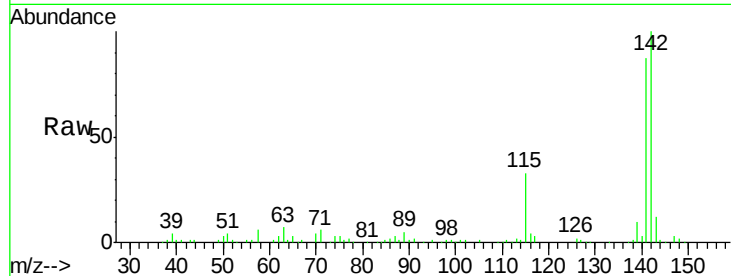




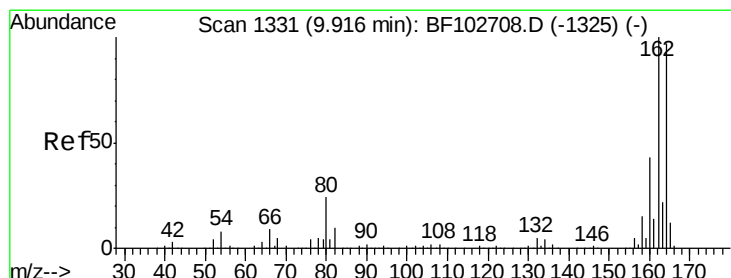
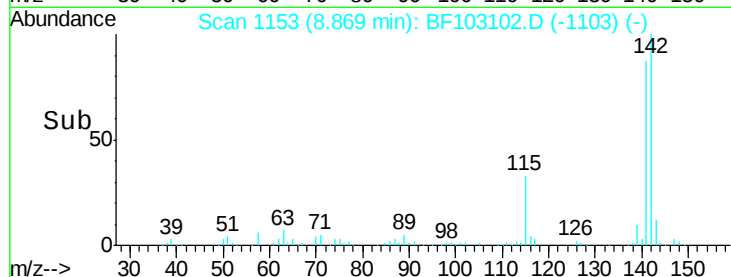
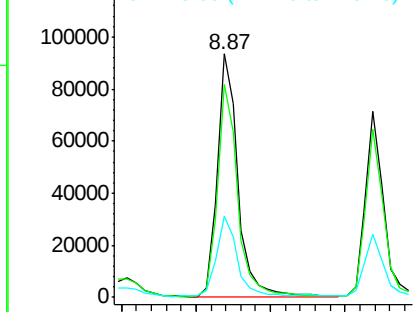
#37  
2-Methylnaphthalene  
Concen: 4.16 ng  
RT: 8.87 min Scan# 1153  
Delta R.T. -0.01 min  
Lab File: BF103102.D  
Acq: 20 Feb 2018 00:55

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:142 Resp: 89522  
Ion Ratio Lower Upper  
142 100  
141 87.2 70.8 106.2  
115 33.4 26.1 39.1

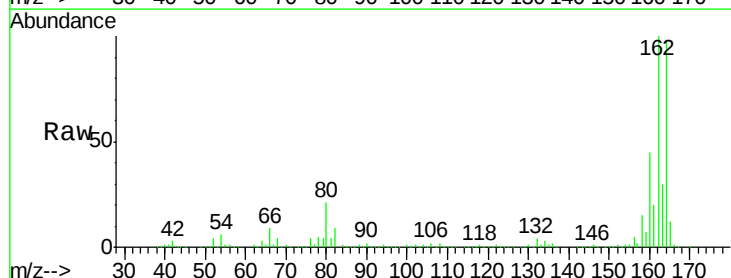


Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 115.00 (114.70 to 115.70): E

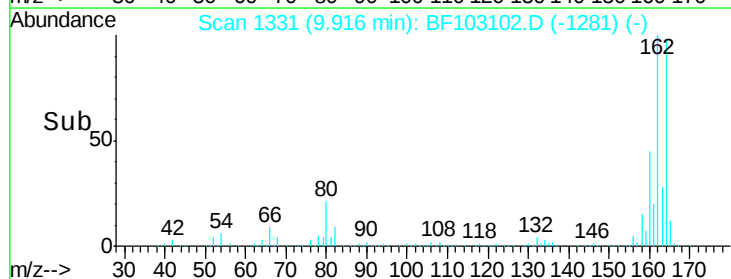
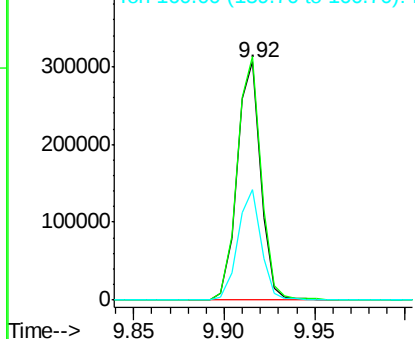


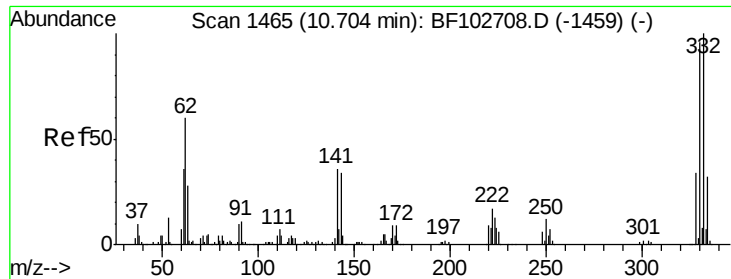
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.92 min Scan# 1331  
Delta R.T. -0.01 min  
Lab File: BF103102.D  
Acq: 20 Feb 2018 00:55

Tgt Ion:164 Resp: 277014  
Ion Ratio Lower Upper  
164 100  
162 102.2 86.1 129.1  
160 46.4 38.3 57.5



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

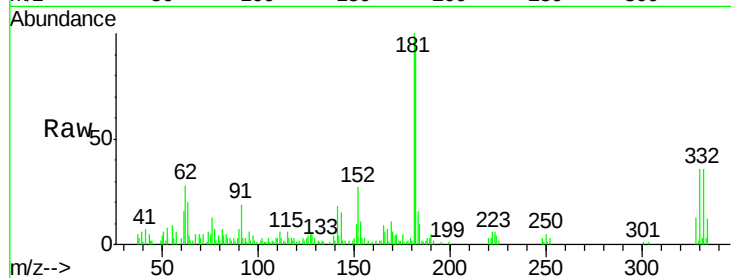




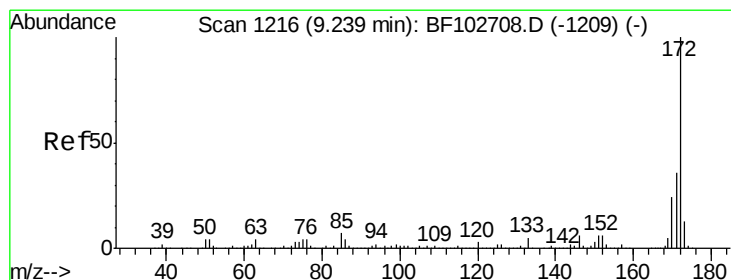
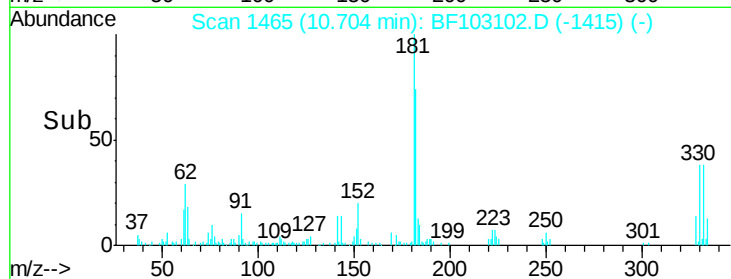
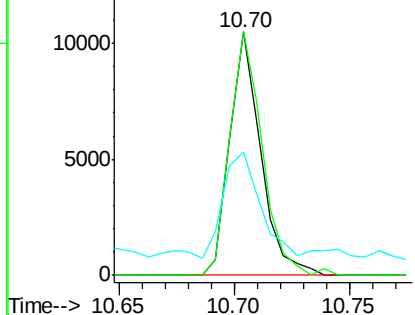
#41  
 2,4,6-Tribromophenol  
 Concen: 4.40 ng  
 RT: 10.70 min Scan# 1465  
 Delta R.T. -0.01 min  
 Lab File: BF103102.D  
 Acq: 20 Feb 2018 00:55

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 104.9 | 77.0  | 115.6 |
| 141     | 54.3  | 29.9  | 44.9  |

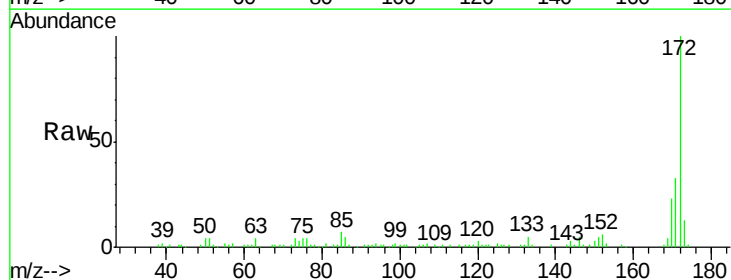


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

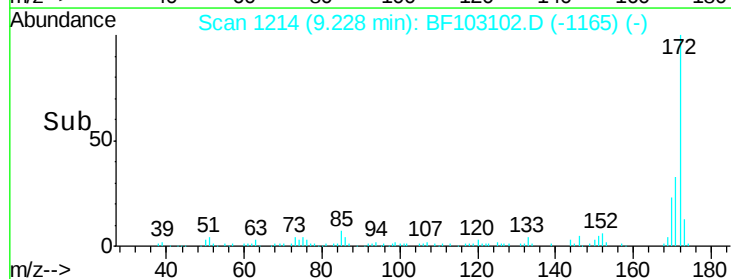
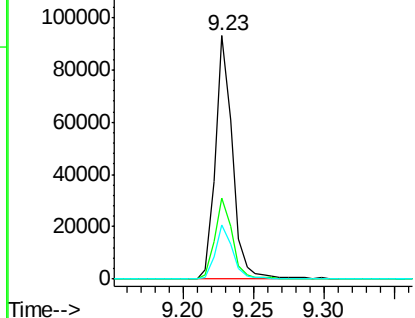


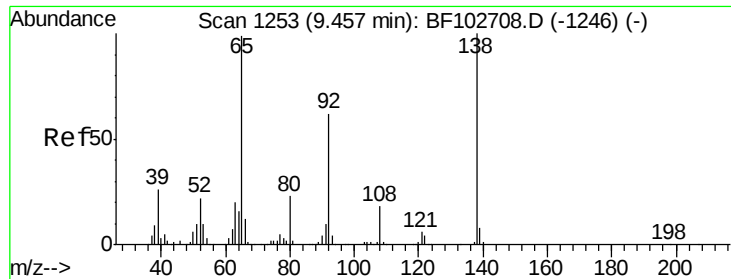
#44  
 2-Fluorobiphenyl  
 Concen: 4.73 ng  
 RT: 9.23 min Scan# 1214  
 Delta R.T. -0.01 min  
 Lab File: BF103102.D  
 Acq: 20 Feb 2018 00:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 33.2  | 29.7  | 44.5  |
| 170     | 22.5  | 19.6  | 29.4  |



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





#47

2-Nitroaniline

Concen: 3.57 ng

RT: 9.44 min Scan# 1250

Delta R.T. -0.02 min

Lab File: BF103102.D

Acq: 20 Feb 2018 00:55

Instrument :

BNA\_F

ClientSampled :

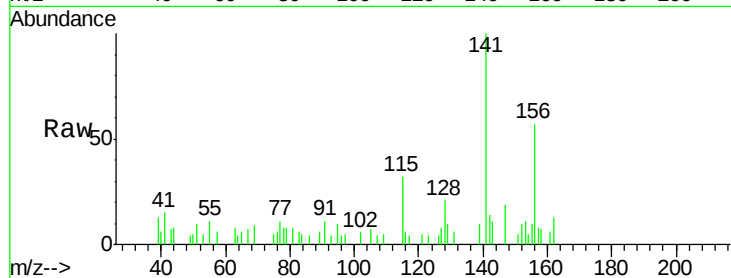
Tot Ion: 65 Resp: 610

Ion Ratio Lower Upper

65 100

92 0.0 55.8 83.6#

138 0.0 91.2 136.8#

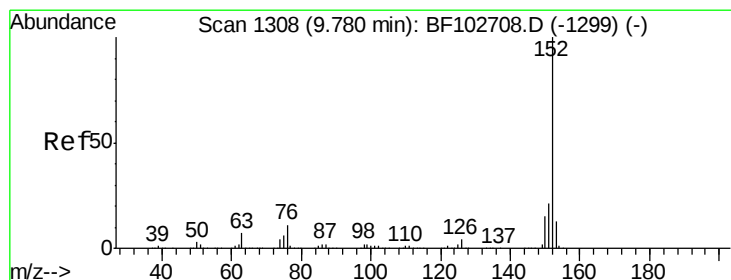
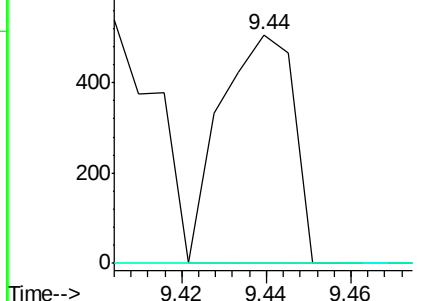
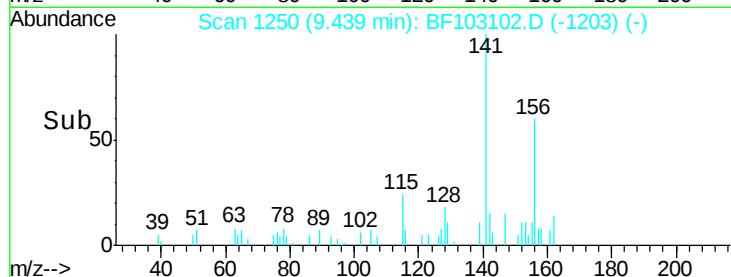


Abundance Ion 65.00 (64.70 to 65.70): BF1

Ion 92.00 (91.70 to 92.70): BF1

Ion 138.00 (137.70 to 138.70): BF1

Time-->



#48

Acenaphthylene

Concen: 24.55 ng

RT: 9.77 min Scan# 1307

Delta R.T. -0.01 min

Lab File: BF103102.D

Acq: 20 Feb 2018 00:55

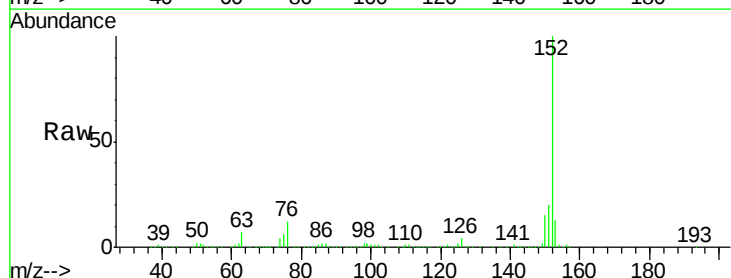
Tgt Ion: 152 Resp: 700339

Ion Ratio Lower Upper

152 100

151 20.3 16.3 24.5

153 13.3 10.7 16.1

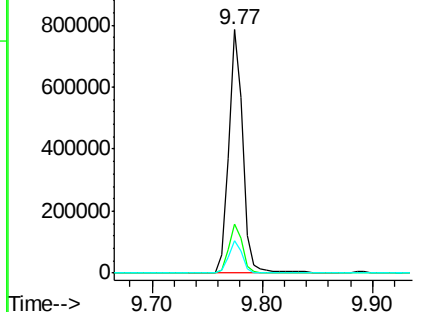
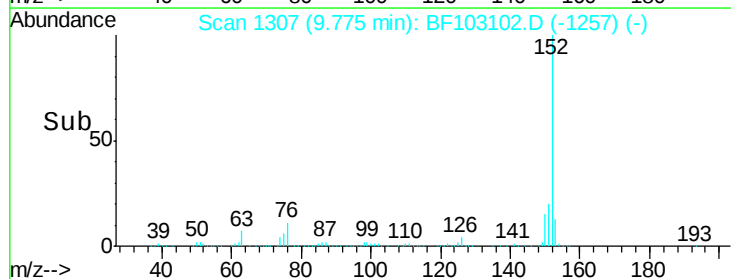


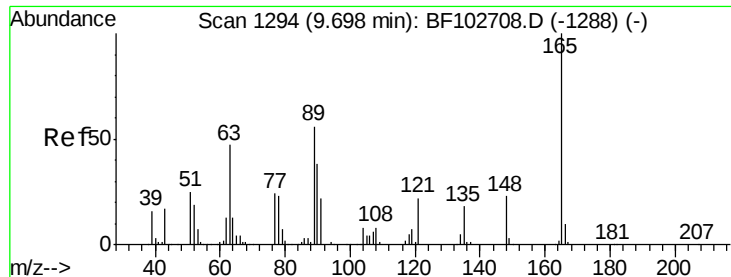
Abundance Ion 152.00 (151.70 to 152.70): BF1

Ion 151.00 (150.70 to 151.70): BF1

Ion 153.00 (152.70 to 153.70): BF1

Time-->

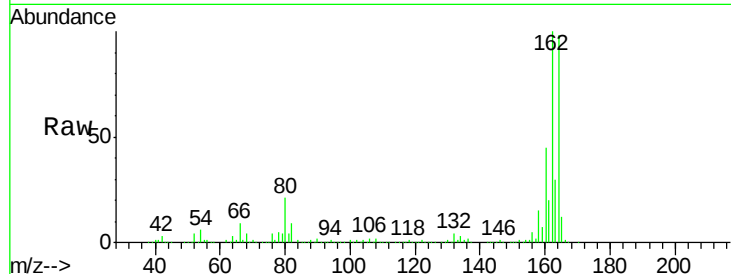




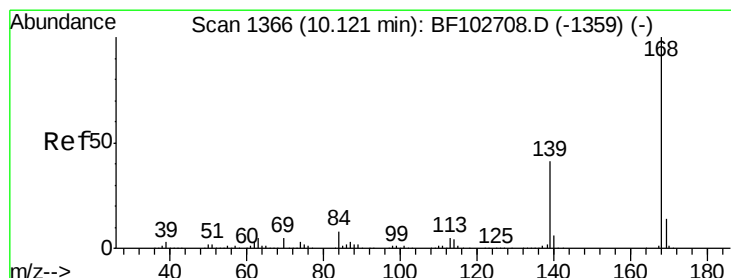
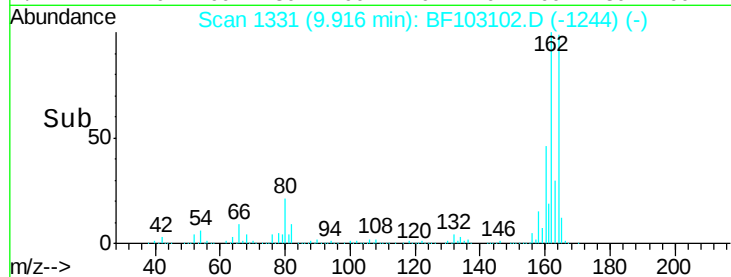
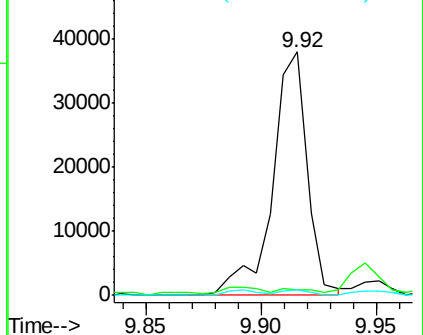
#50  
 2,6-Dinitrotoluene  
 Concen: 9.60 ng  
 RT: 9.92 min Scan# 1331  
 Delta R.T. 0.21 min  
 Lab File: BF103102.D  
 Acq: 20 Feb 2018 00:55

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.3   | 44.7  | 67.1# |
| 89      | 2.2   | 44.0  | 66.0# |

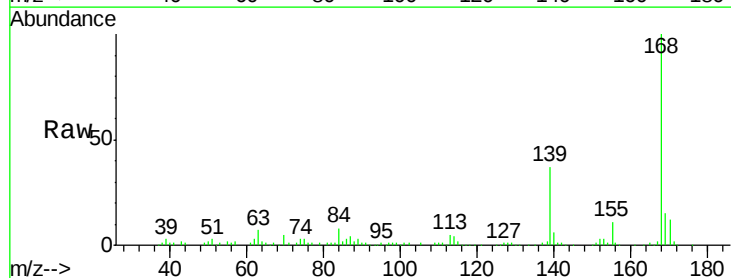


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1

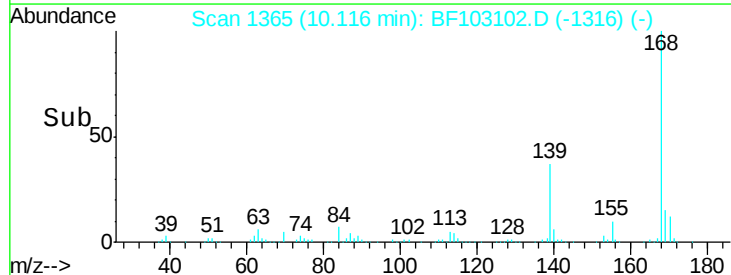
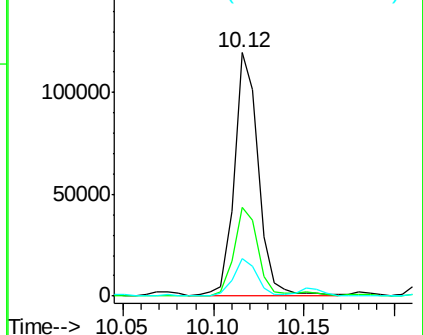


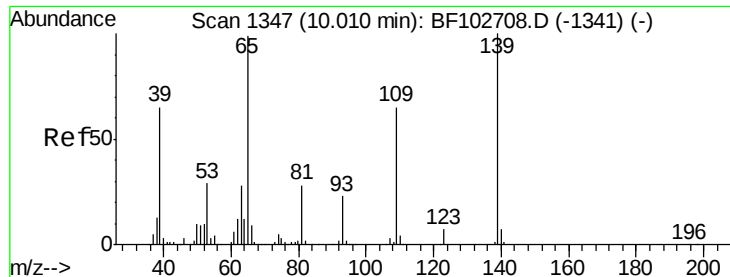
#54  
 Dibenzofuran  
 Concen: 4.53 ng  
 RT: 10.12 min Scan# 1365  
 Delta R.T. -0.01 min  
 Lab File: BF103102.D  
 Acq: 20 Feb 2018 00:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 36.6  | 30.1  | 45.1  |
| 169     | 15.4  | 10.9  | 16.3  |



Abundance Ion 168.00 (167.70 to 168.70): E  
 Ion 139.00 (138.70 to 139.70): E  
 Ion 169.00 (168.70 to 169.70): E





#55

4-Nitrophenol

Concen: 13.38 ng

RT: 10.12 min Scan# 1365

Delta R.T. 0.08 min

Lab File: BF103102.D

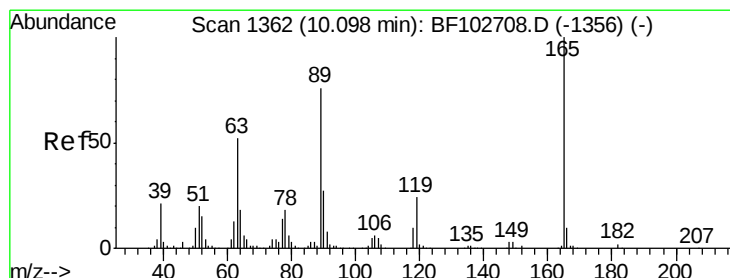
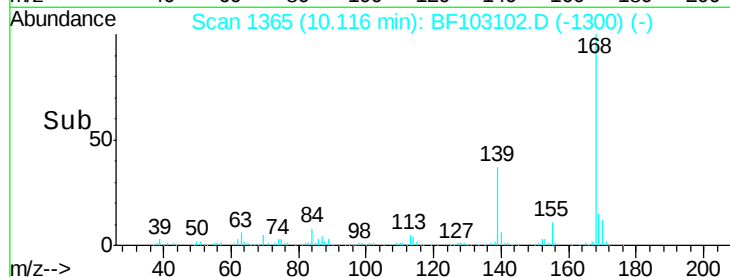
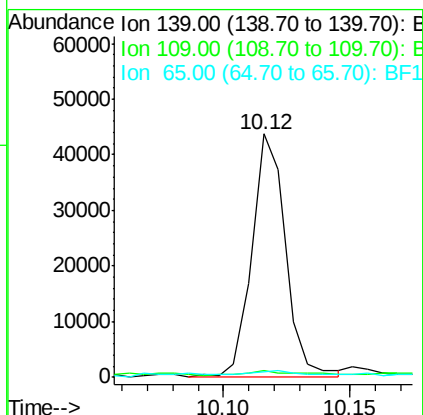
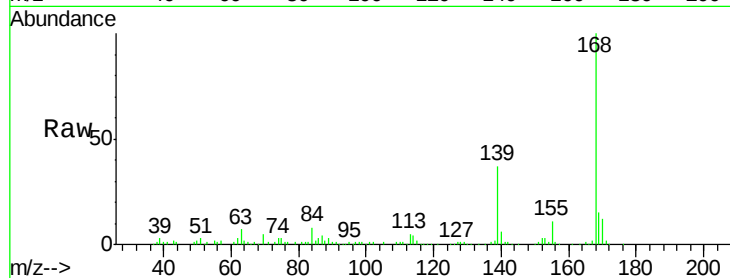
Acq: 20 Feb 2018 00:55

Instrument :

BNA\_F

ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:139 | Resp: | 40925       |
| Ion Ratio   | Lower | Upper       |
| 139         | 100   |             |
| 109         | 2.7   | 48.4 88.4#  |
| 65          | 2.4   | 72.6 112.6# |



#56

2,4-Dinitrotoluene

Concen: 3.98 ng

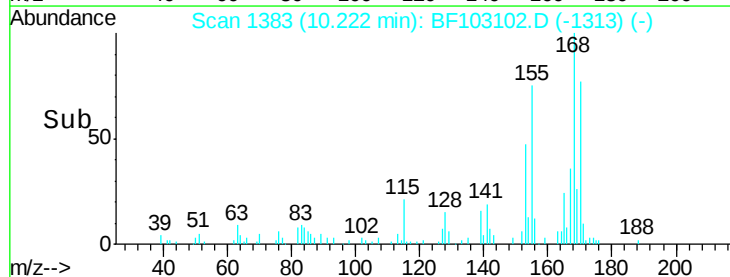
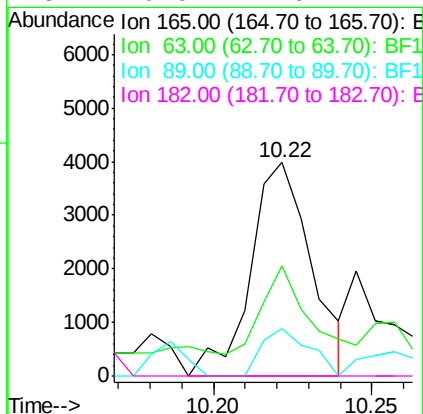
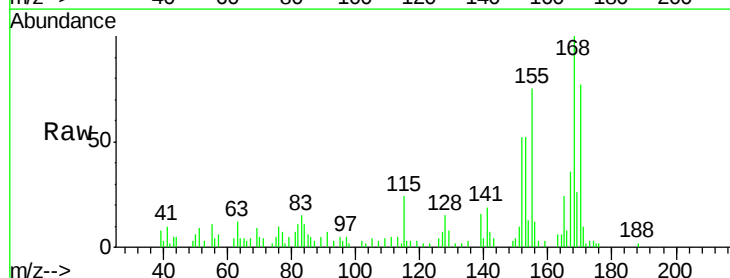
RT: 10.22 min Scan# 1383

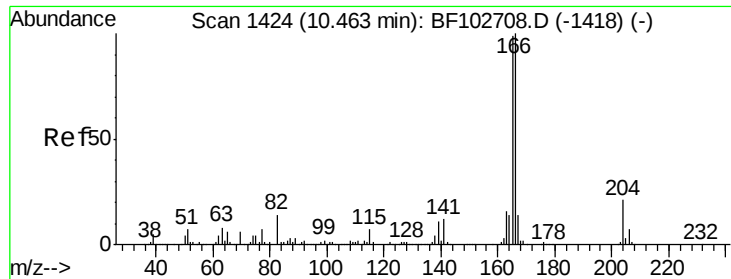
Delta R.T. 0.11 min

Lab File: BF103102.D

Acq: 20 Feb 2018 00:55

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:165 | Resp: | 5329       |
| Ion Ratio   | Lower | Upper      |
| 165         | 100   |            |
| 63          | 51.3  | 36.4 54.6  |
| 89          | 22.0  | 57.8 86.6# |
| 182         | 0.0   | 1.6 2.4#   |

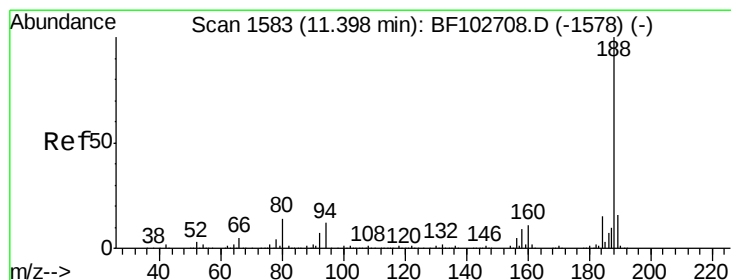
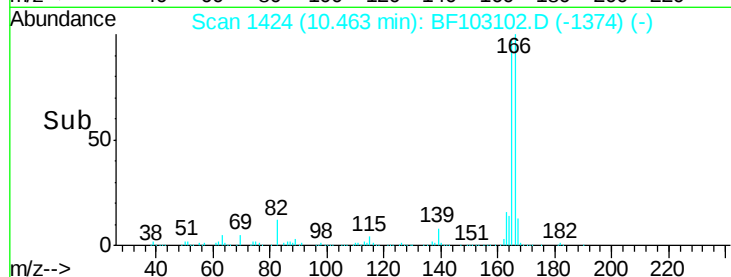
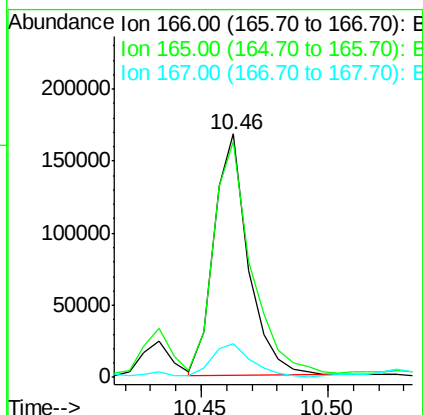
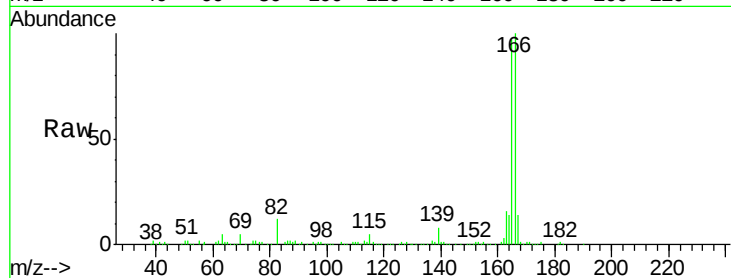




#57  
**Fluorene**  
 Concen: 9.03 ng  
 RT: 10.46 min Scan# 1424  
 Delta R.T. -0.01 min  
 Lab File: BF103102.D  
 Acq: 20 Feb 2018 00:55

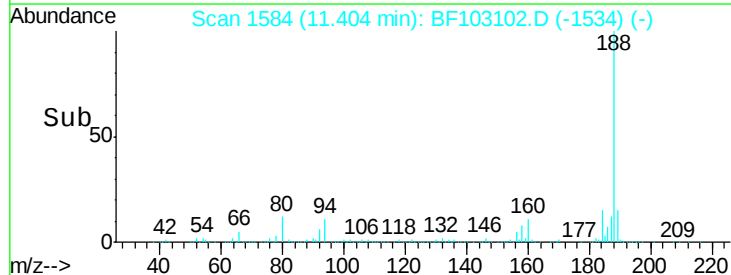
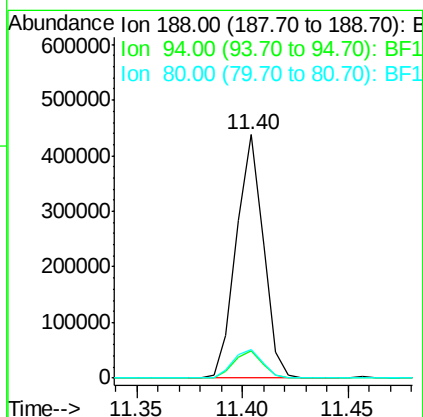
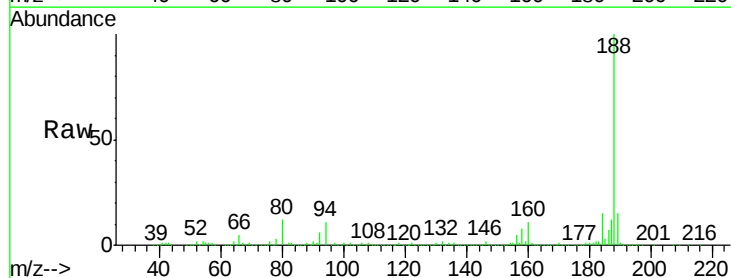
Instrument :  
 BNA\_F  
 ClientSampleId :

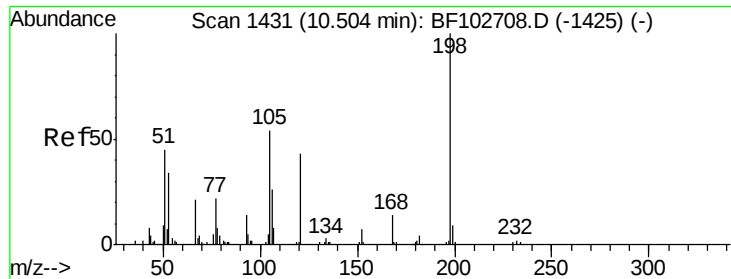
Tot Ion:166 Resp: 157915  
 Ion Ratio Lower Upper  
 166 100  
 165 96.8 79.8 119.8  
 167 13.7 10.6 16.0



#63  
**Phenanthrene-d10**  
 Concen: 20.00 ng  
 RT: 11.40 min Scan# 1584  
 Delta R.T. -0.01 min  
 Lab File: BF103102.D  
 Acq: 20 Feb 2018 00:55

Tgt Ion:188 Resp: 387785  
 Ion Ratio Lower Upper  
 188 100  
 94 11.2 8.5 12.7  
 80 11.6 9.2 13.8

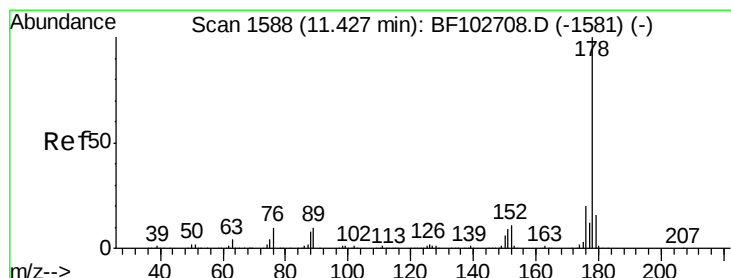
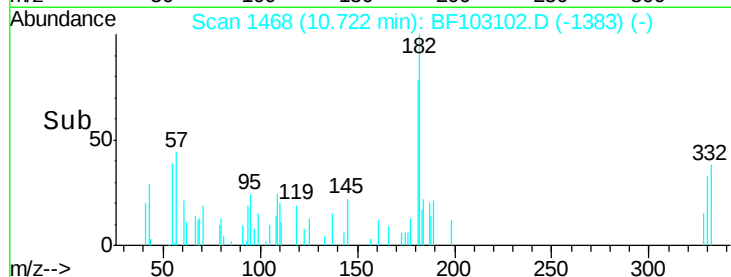
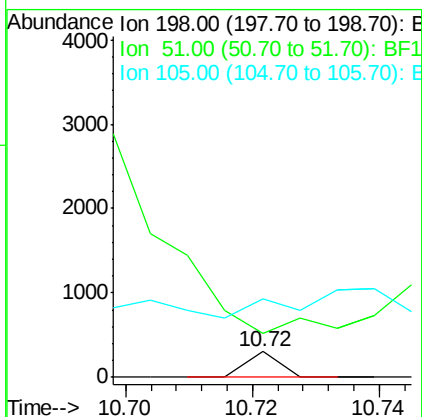
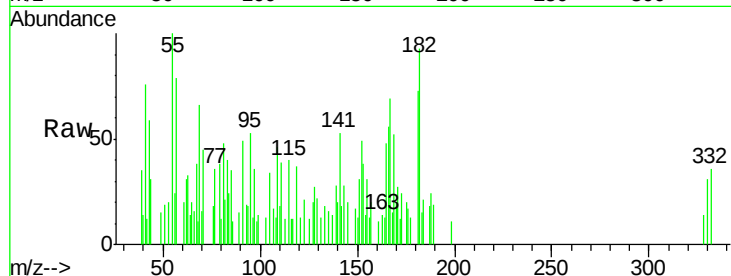




#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 8.85 ng  
 RT: 10.72 min Scan# 1468  
 Delta R.T. 0.20 min  
 Lab File: BF103102.D  
 Acq: 20 Feb 2018 00:55

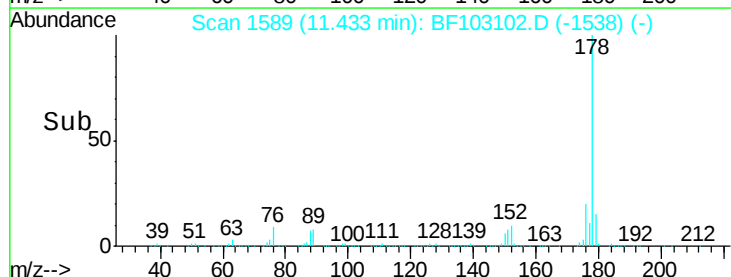
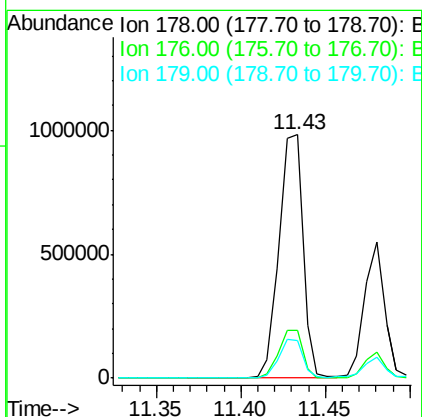
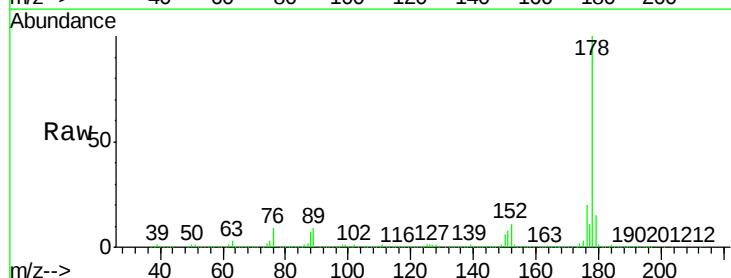
Instrument :  
 BNA\_F  
 ClientSampleId :

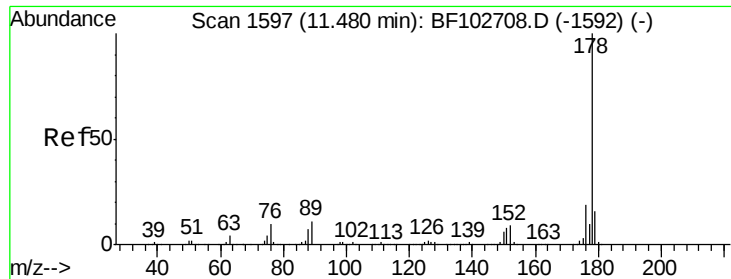
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 198     | 100   |       |       |
| 51      | 170.7 | 37.7  | 77.7# |
| 105     | 301.3 | 36.3  | 76.3# |



#70  
 Phenanthrene  
 Concen: 44.37 ng  
 RT: 11.43 min Scan# 1589  
 Delta R.T. -0.00 min  
 Lab File: BF103102.D  
 Acq: 20 Feb 2018 00:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.6  | 15.8  | 23.8  |
| 179     | 15.4  | 13.0  | 19.6  |

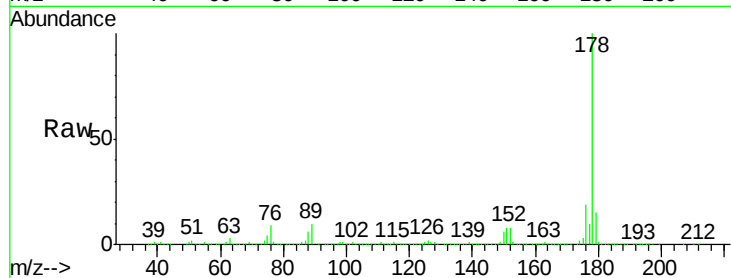




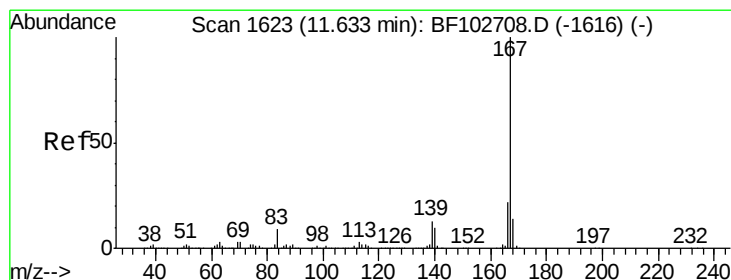
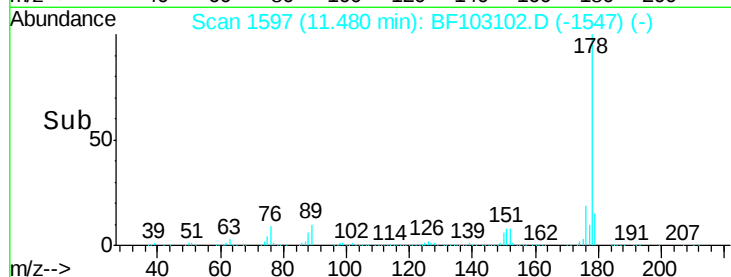
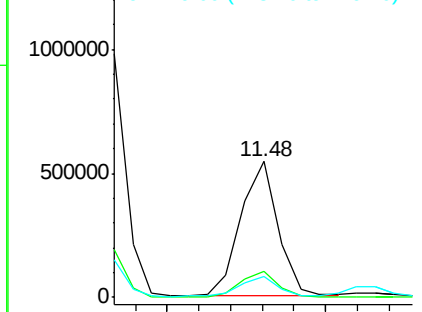
#71  
 Anthracene  
 Concen: 20.00 ng  
 RT: 11.48 min Scan# 1597  
 Delta R.T. -0.01 min  
 Lab File: BF103102.D  
 Acq: 20 Feb 2018 00:55

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:178 Resp: 439397  
 Ion Ratio Lower Upper  
 178 100  
 176 19.1 15.4 23.2  
 179 15.3 12.6 19.0

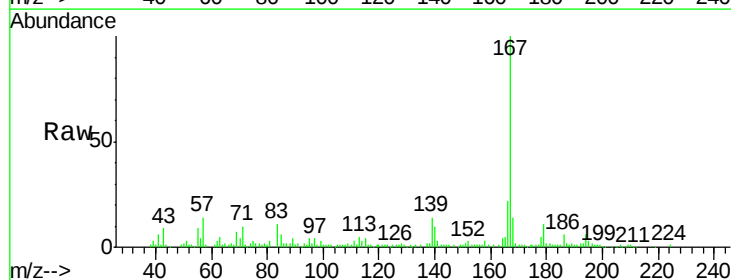


Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

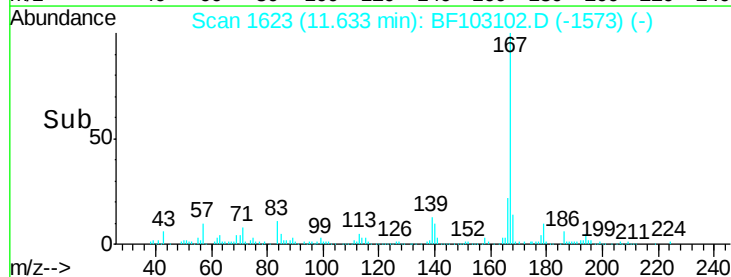
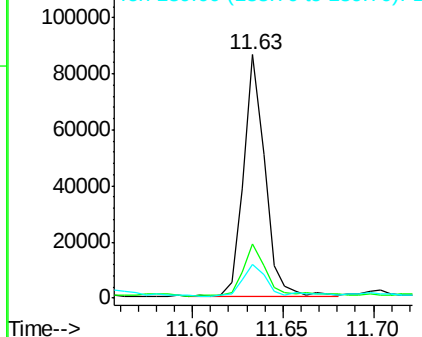


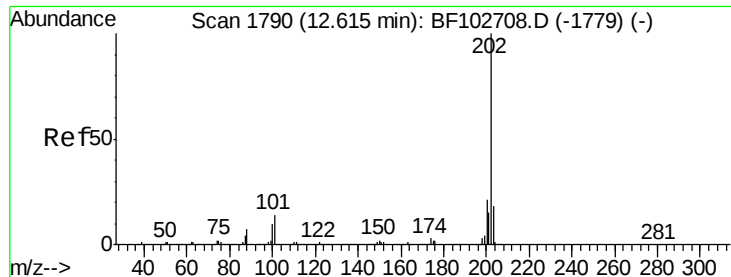
#72  
 Carbazole  
 Concen: 3.29 ng  
 RT: 11.63 min Scan# 1623  
 Delta R.T. -0.01 min  
 Lab File: BF103102.D  
 Acq: 20 Feb 2018 00:55

Tgt Ion:167 Resp: 70891  
 Ion Ratio Lower Upper  
 167 100  
 166 22.2 17.6 26.4  
 139 13.9 10.9 16.3



Abundance Ion 167.00 (166.70 to 167.70): E  
 Ion 166.00 (165.70 to 166.70): E  
 Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 73.94 ng

RT: 12.63 min Scan# 1792

Delta R.T. -0.00 min

Lab File: BF103102.D

Acq: 20 Feb 2018 00:55

Instrument :

BNA\_F

ClientSampleId :

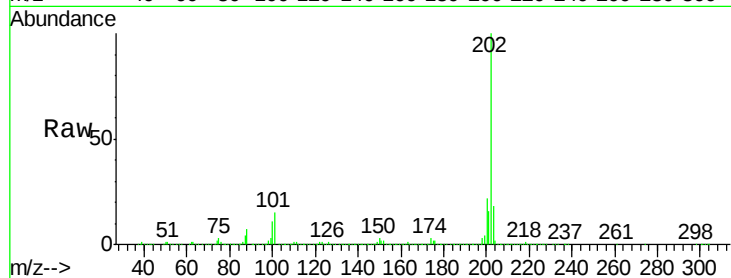
Tot Ion:202 Resp: 1606571

Ion Ratio Lower Upper

202 100

101 14.8 0.0 34.1

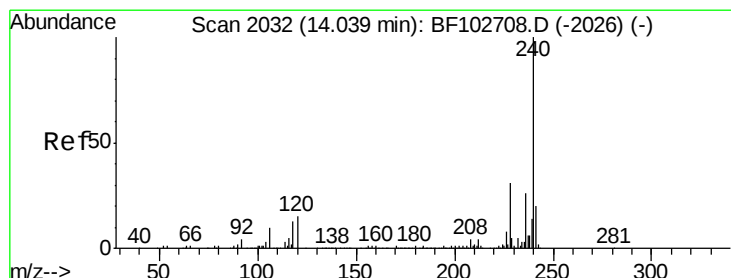
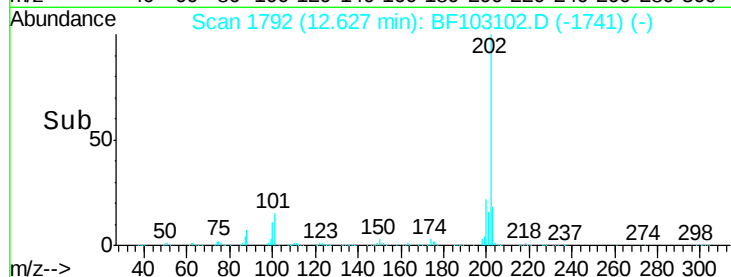
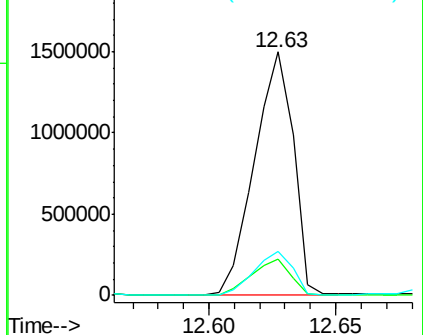
203 17.9 0.0 38.1



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: 14.06 min Scan# 2035

Delta R.T. -0.00 min

Lab File: BF103102.D

Acq: 20 Feb 2018 00:55

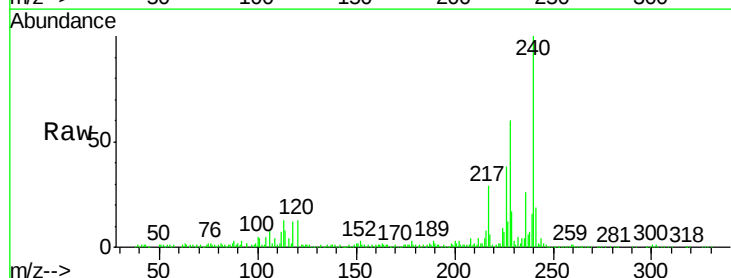
Tgt Ion:240 Resp: 244455

Ion Ratio Lower Upper

240 100

120 13.4 9.5 14.3

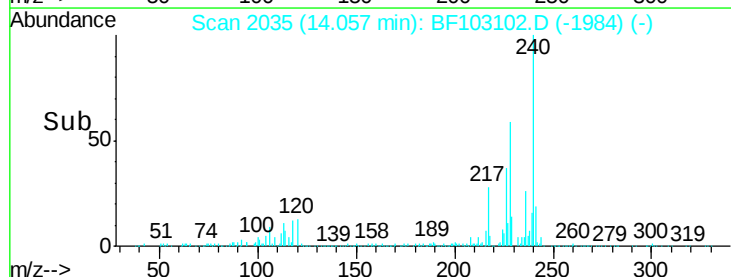
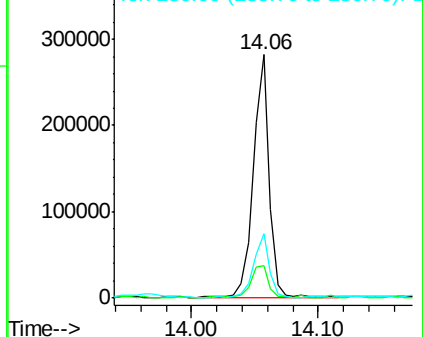
236 26.4 20.7 31.1

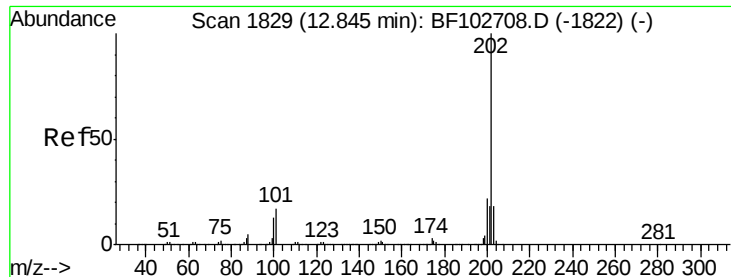


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 84.40 ng

RT: 12.86 min Scan# 1831

Delta R.T. -0.00 min

Lab File: BF103102.D

Acq: 20 Feb 2018 00:55

Instrument :

BNA\_F

ClientSampleId :

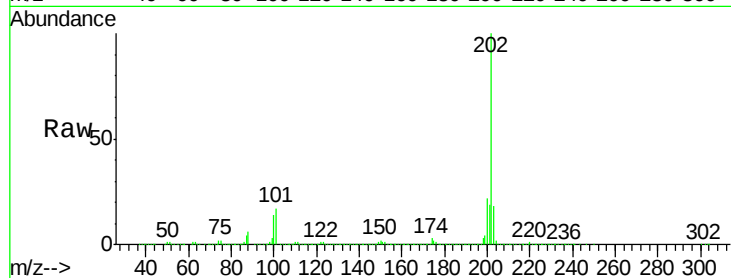
Tot Ion:202 Resp: 1617965

Ion Ratio Lower Upper

202 100

200 21.9 17.4 26.2

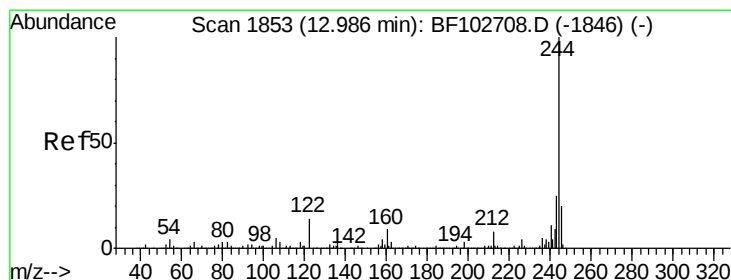
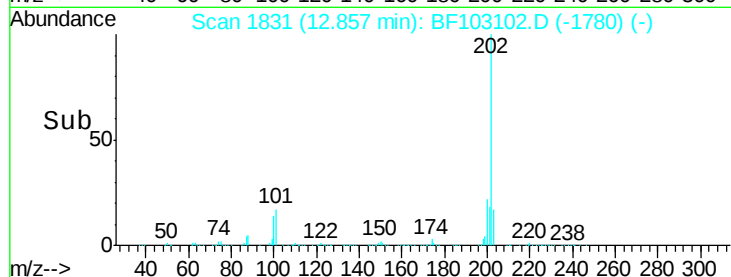
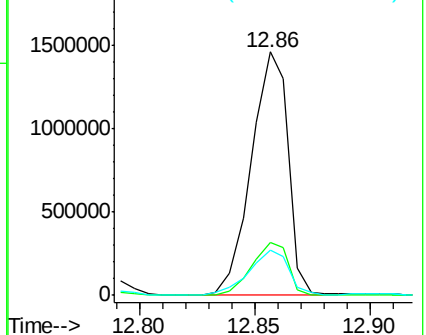
203 18.5 14.3 21.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 5.16 ng

RT: 12.99 min Scan# 1853

Delta R.T. -0.01 min

Lab File: BF103102.D

Acq: 20 Feb 2018 00:55

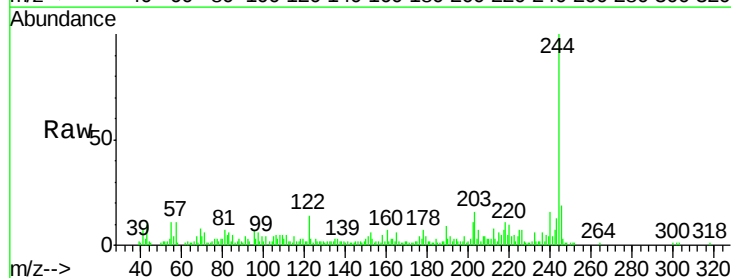
Tgt Ion:244 Resp: 53266

Ion Ratio Lower Upper

244 100

212 7.7 5.4 8.0

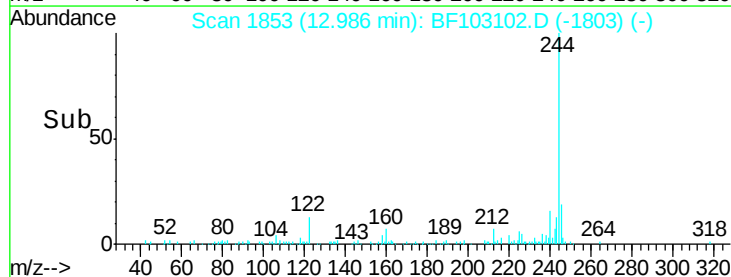
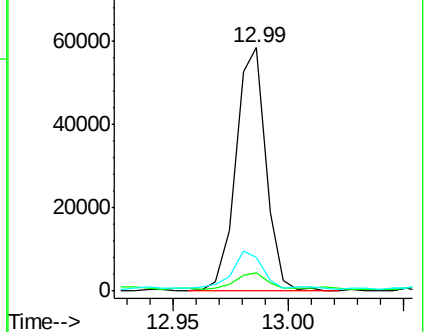
122 13.7 11.0 16.4

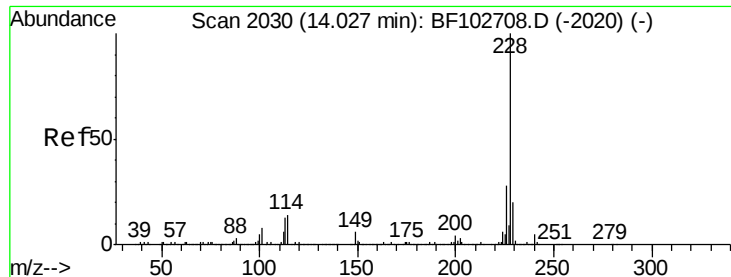


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 55.46 ng

RT: 14.08 min Scan# 2039

Delta R.T. 0.04 min

Lab File: BF103102.D

Acq: 20 Feb 2018 00:55

Instrument :

BNA\_F

ClientSampleId :

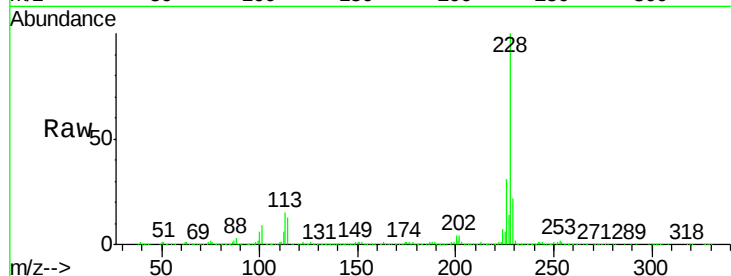
Tot Ion:228 Resp: 852568

Ion Ratio Lower Upper

228 100

226 31.1 22.6 33.8

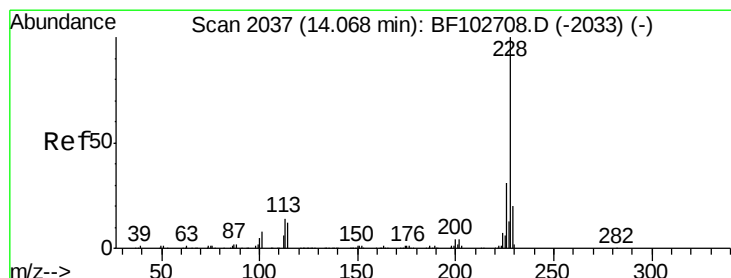
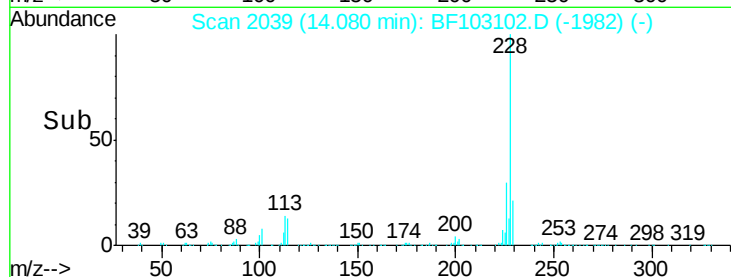
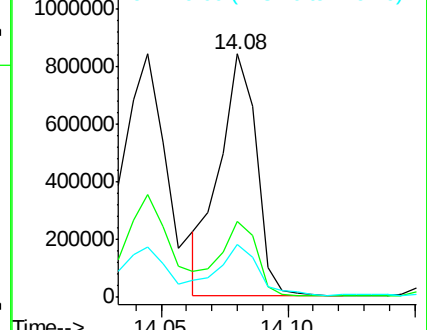
229 21.9 15.8 23.6



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



#82

Chrysene

Concen: 55.01 ng

RT: 14.08 min Scan# 2039

Delta R.T. -0.01 min

Lab File: BF103102.D

Acq: 20 Feb 2018 00:55

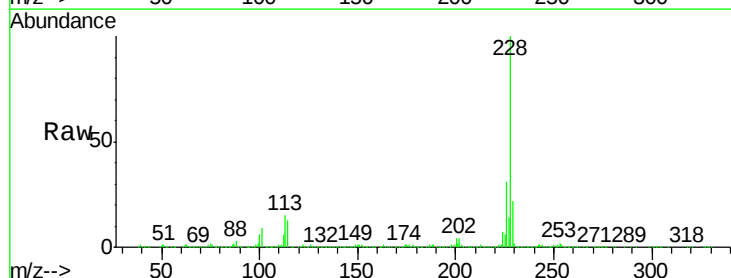
Tgt Ion:228 Resp: 852568

Ion Ratio Lower Upper

228 100

226 31.1 25.0 37.6

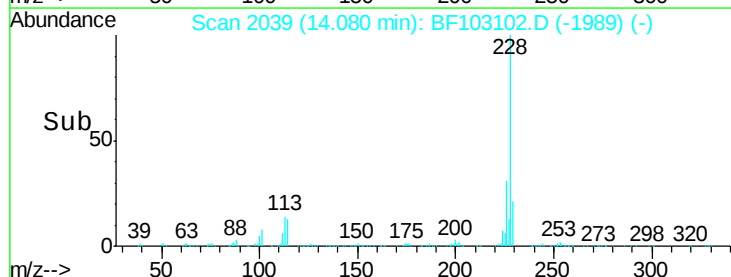
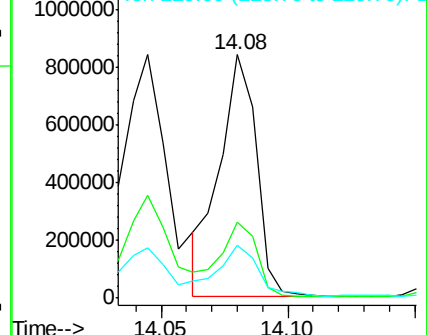
229 21.9 16.2 24.4

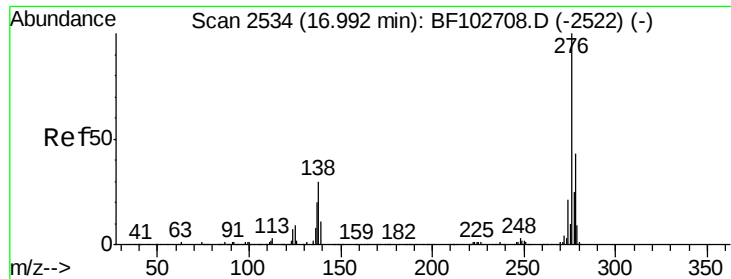


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

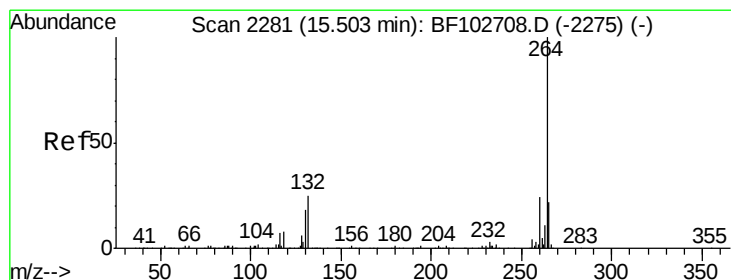
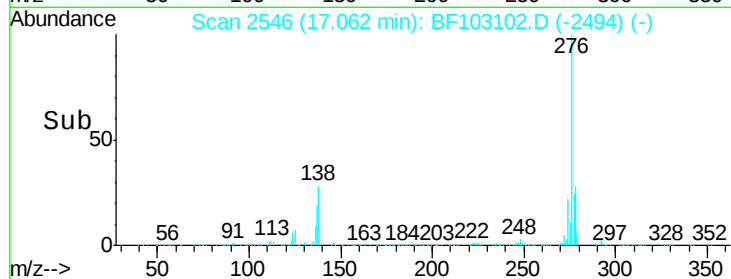
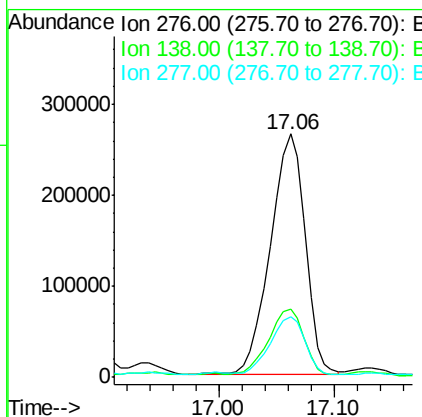
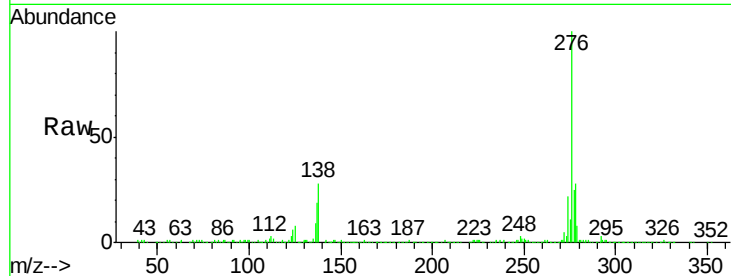




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 43.22 ng  
 RT: 17.06 min Scan# 2546  
 Delta R.T. 0.01 min  
 Lab File: BF103102.D  
 Acq: 20 Feb 2018 00:55

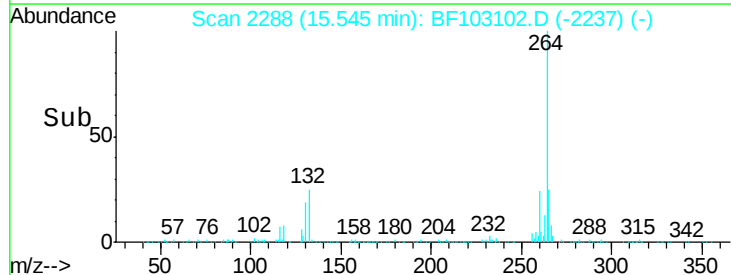
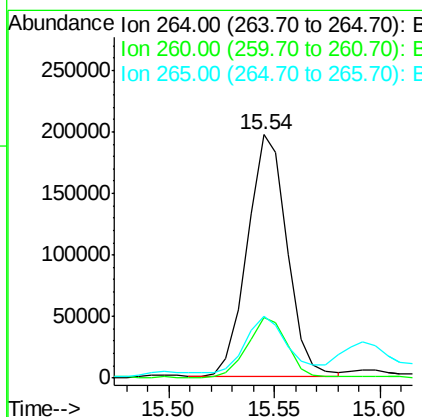
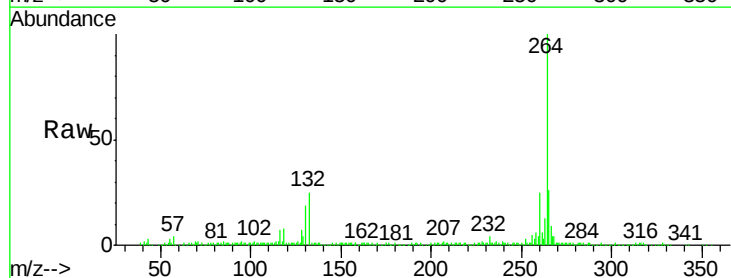
Instrument :  
 BNA\_F  
 ClientSampleId :

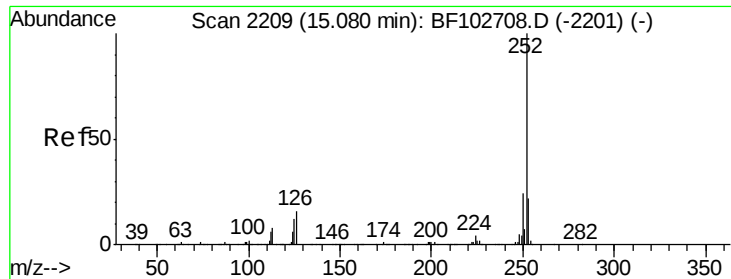
Tot Ion:276 Resp: 555474  
 Ion Ratio Lower Upper  
 276 100  
 138 27.5 25.0 37.6  
 277 24.3 20.1 30.1



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.54 min Scan# 2288  
 Delta R.T. 0.00 min  
 Lab File: BF103102.D  
 Acq: 20 Feb 2018 00:55

Tgt Ion:264 Resp: 256139  
 Ion Ratio Lower Upper  
 264 100  
 260 24.8 19.2 28.8  
 265 25.6 17.5 26.3

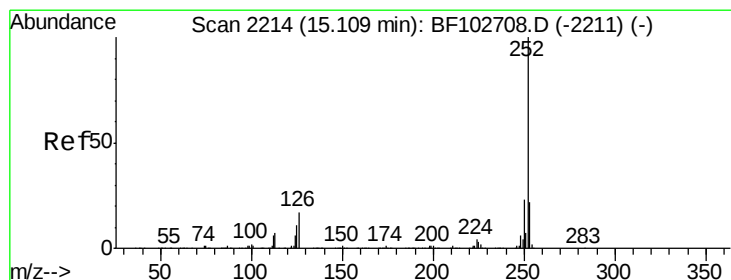
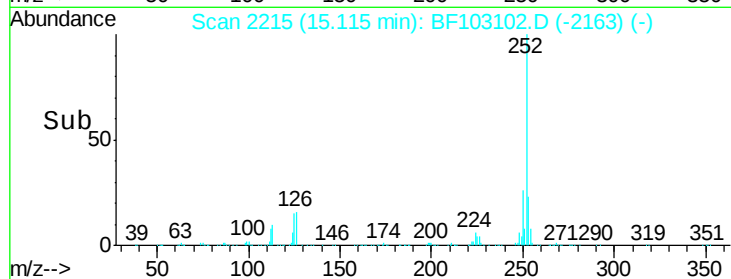
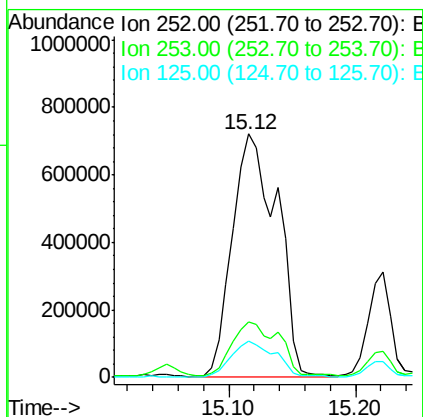
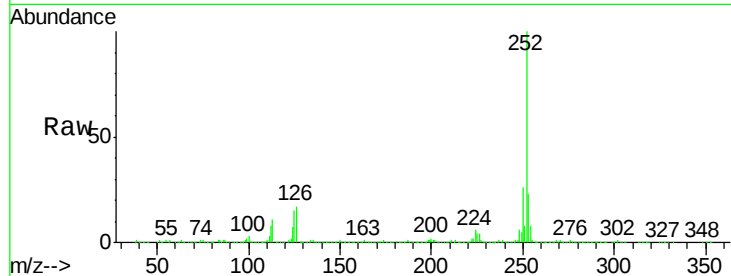




#87  
Benzo(b)fluoranthene  
Concen: 105.95 ng  
RT: 15.12 min Scan# 2215  
Delta R.T. 0.01 min  
Lab File: BF103102.D  
Acq: 20 Feb 2018 00:55

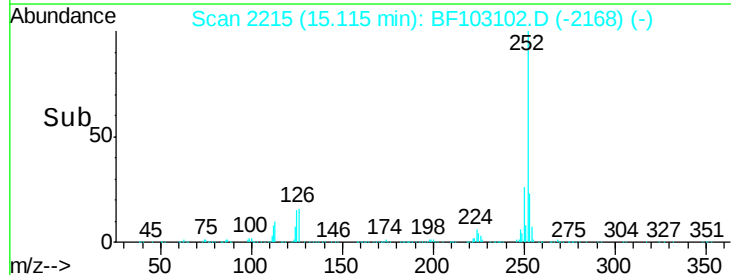
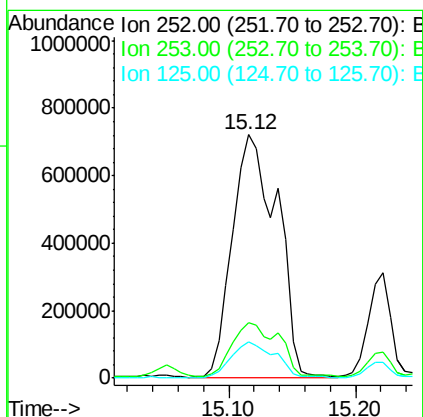
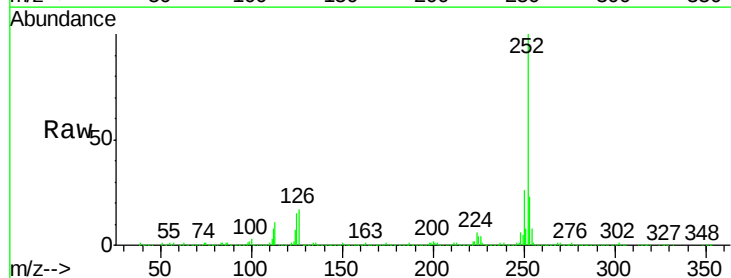
Instrument :  
BNA\_F  
ClientSampled :

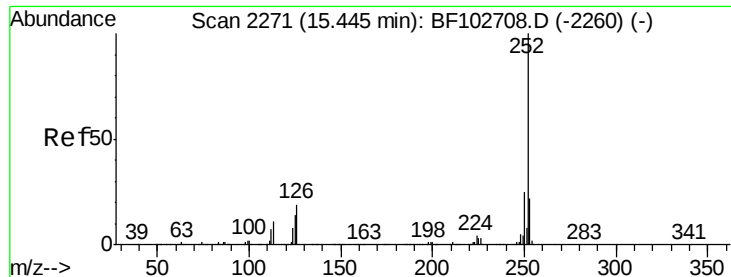
Tot Ion:252 Resp: 1759368  
Ion Ratio Lower Upper  
252 100  
253 23.0 17.0 25.6  
125 15.0 9.0 13.6#



#88  
Benzo(k)fluoranthene  
Concen: 110.88 ng  
RT: 15.12 min Scan# 2215  
Delta R.T. -0.02 min  
Lab File: BF103102.D  
Acq: 20 Feb 2018 00:55

Tgt Ion:252 Resp: 1759368  
Ion Ratio Lower Upper  
252 100  
253 23.0 17.9 26.9  
125 15.0 10.2 15.2





#89

Benzo(a)pyrene

Concen: 66.36 ng

RT: 15.49 min Scan# 2279

Delta R.T. 0.01 min

Lab File: BF103102.D

Acq: 20 Feb 2018 00:55

Instrument :

BNA\_F

ClientSampled :

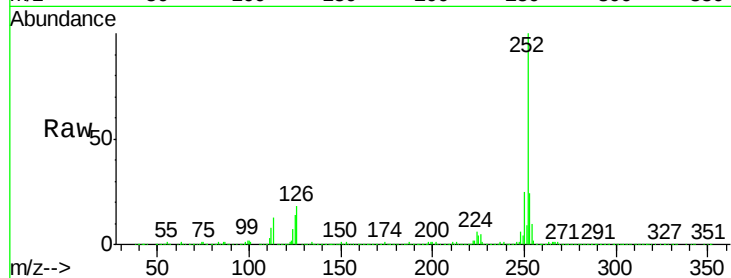
Tot Ion:252 Resp: 991900

Ion Ratio Lower Upper

252 100

253 23.7 17.1 25.7

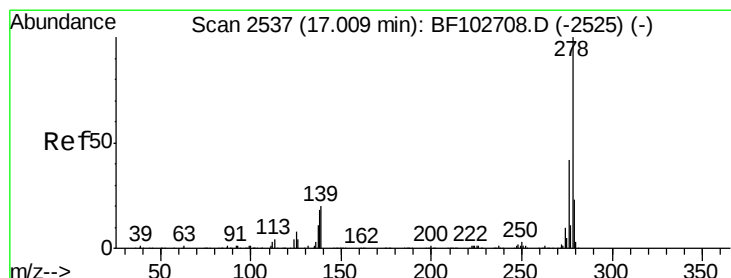
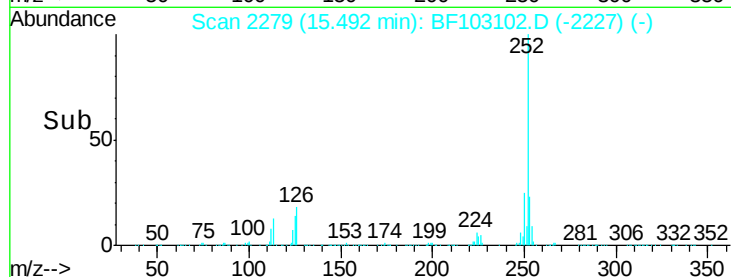
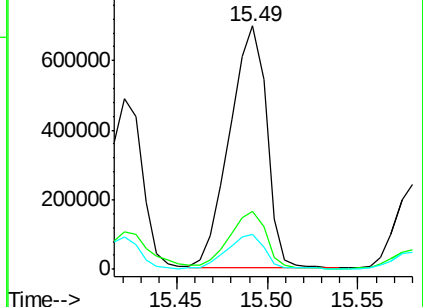
125 14.2 9.8 14.6



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



#90

Dibenzo(a,h)anthracene

Concen: 11.16 ng

RT: 17.23 min Scan# 2575

Delta R.T. 0.16 min

Lab File: BF103102.D

Acq: 20 Feb 2018 00:55

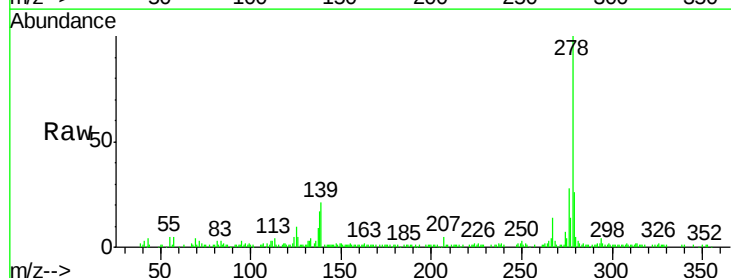
Tgt Ion:278 Resp: 135375

Ion Ratio Lower Upper

278 100

139 21.1 15.9 23.9

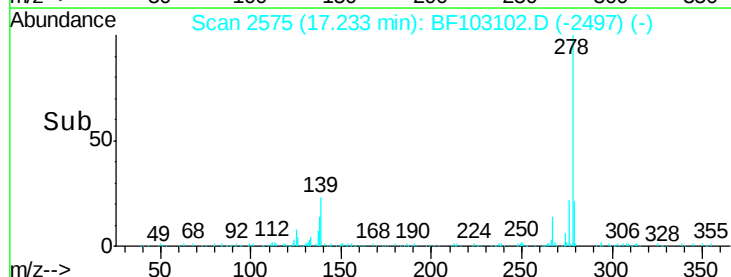
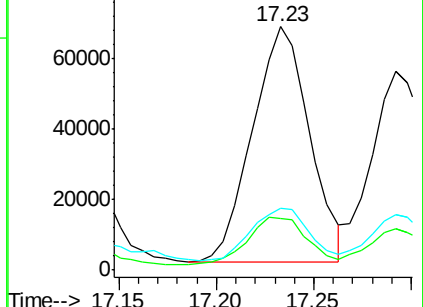
279 25.6 19.0 28.4

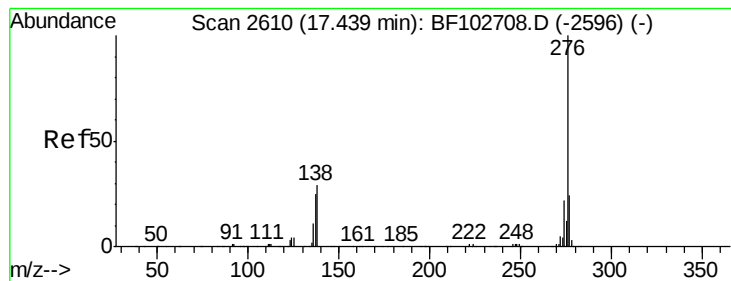


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 47.28 ng

RT: 17.53 min Scan# 2625

Delta R.T. 0.01 min

Lab File: BF103102.D

Acq: 20 Feb 2018 00:55

Instrument :

BNA\_F

ClientSampleId :

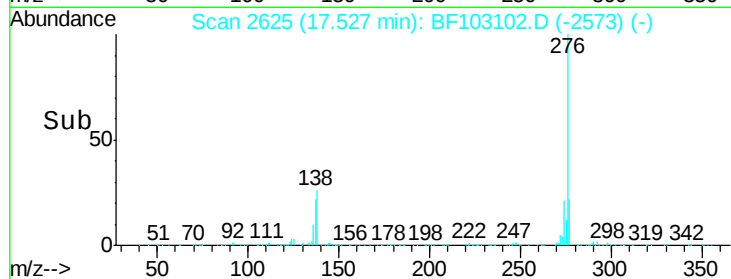
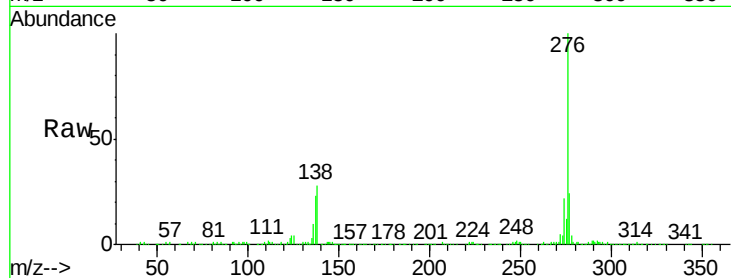
Tot Ion: 276 Resp: 561506

Ion Ratio Lower Upper

276 100

277 23.7 17.9 26.9

138 28.3 21.8 32.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

