

Data Path : U:\HPCHEM1\BNA F\DATA\BF020618\  
 Data File : BF102781.D  
 Acq On : 6 Feb 2018 13:57  
 Operator : SJ/JU  
 Sample : J1454-13  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 06 14:44:10 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 05 12:44:16 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.88  | 152  | 199944   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.16  | 136  | 827619   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.92  | 164  | 334382   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.41 | 188  | 435703   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.06 | 240  | 264378   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.55 | 264  | 300310   | 20.00 | ng    | 0.02     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.50  | 112 | 1446640 | 109.88 | ng | 0.01 |
| 7) Phenol-d6             | 6.51  | 99  | 1708788 | 107.79 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.45  | 82  | 1000403 | 83.85  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 10.71 | 330 | 261446  | 97.14  | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 9.24  | 172 | 1496870 | 74.28  | ng | 0.00 |
| 78) Terphenyl-d14        | 13.00 | 244 | 778488  | 69.72  | ng | 0.00 |

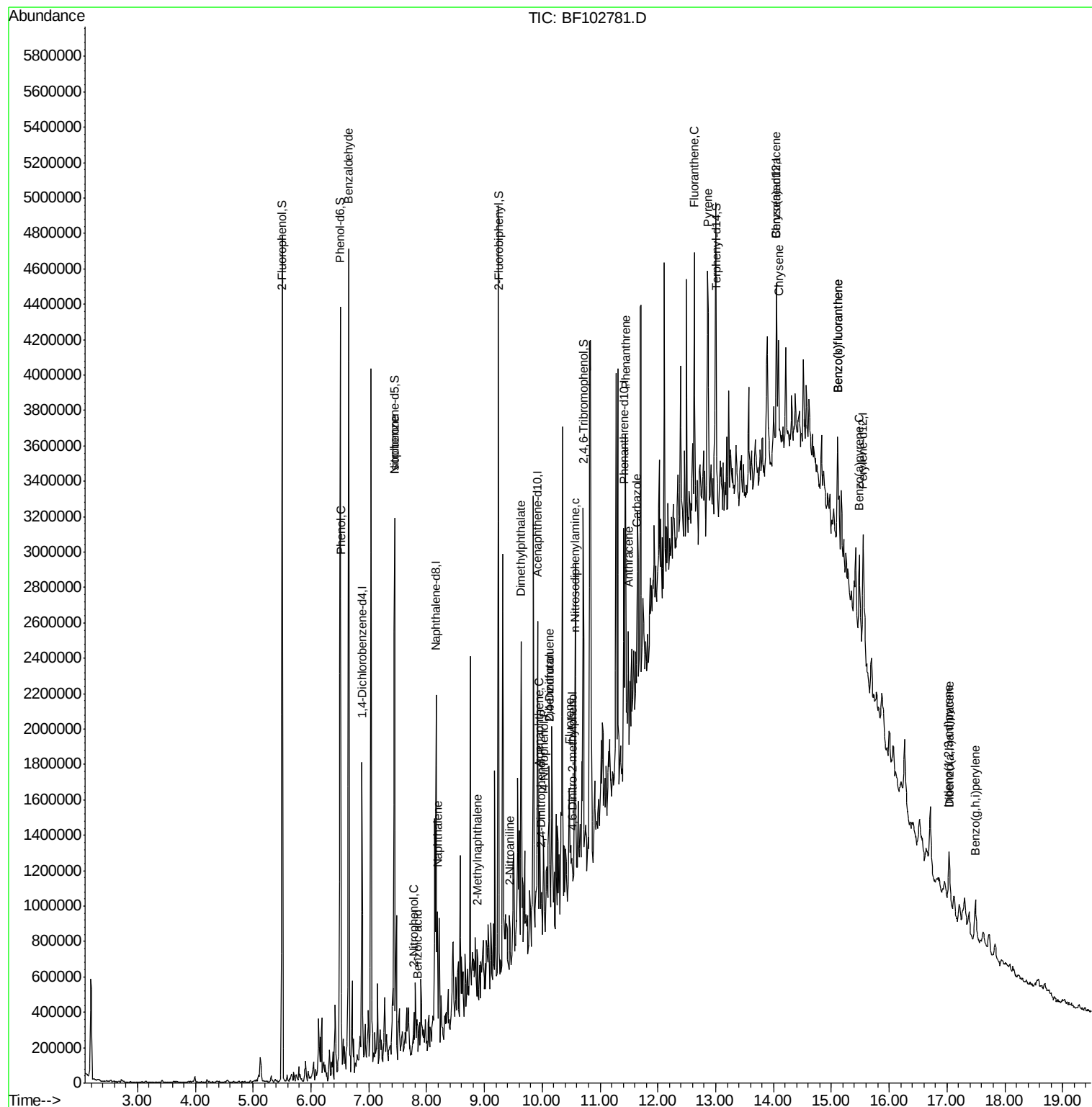
## Target Compounds

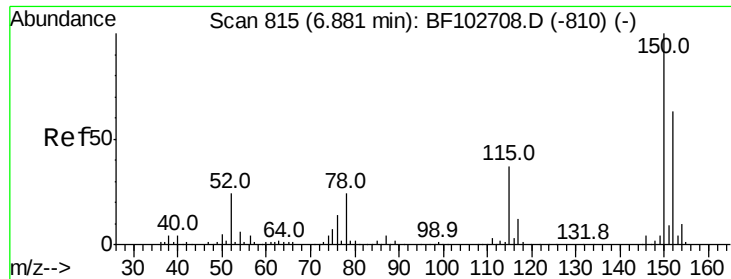
|                                |       |     |        |        |    | Qvalue |
|--------------------------------|-------|-----|--------|--------|----|--------|
| 9) Benzaldehyde                | 6.65  | 77  | 31510  | 2.677  | ng | 83     |
| 10) Phenol                     | 6.52  | 94  | 48448  | 2.852  | ng | 96     |
| 25) Isophorone                 | 7.45  | 82  | 987544 | 35.948 | ng | # 65   |
| 26) 2-Nitrophenol              | 7.78  | 139 | 1718   | 8.910  | ng | # 1    |
| 31) Naphthalene                | 8.19  | 128 | 192439 | 4.759  | ng | 99     |
| 32) Benzoic acid               | 7.85  | 122 | 7469   | 9.423  | ng | 92     |
| 37) 2-Methylnaphthalene        | 8.87  | 142 | 88400  | 3.339  | ng | 96     |
| 47) 2-Nitroaniline             | 9.45  | 65  | 2208   | 3.772  | ng | # 46   |
| 49) Dimethylphthalate          | 9.63  | 163 | 195310 | 7.491  | ng | # 98   |
| 51) Acenaphthene               | 9.95  | 154 | 108400 | 5.263  | ng | 99     |
| 53) 2,4-Dinitrophenol          | 9.97  | 184 | 108    | 8.040  | ng | # 1    |
| 54) Dibenzofuran               | 10.13 | 168 | 79331  | 2.733  | ng | # 79   |
| 55) 4-Nitrophenol              | 10.02 | 139 | 12604  | 6.410  | ng | # 34   |
| 56) 2,4-Dinitrotoluene         | 10.12 | 165 | 7873   | 4.183  | ng | # 49   |
| 57) Fluorene                   | 10.47 | 166 | 122735 | 5.812  | ng | 99     |
| 64) 4,6-Dinitro-2-methylphenol | 10.53 | 198 | 708    | 9.153  | ng | # 1    |
| 65) n-Nitrosodiphenylamine     | 10.58 | 169 | 64845  | 4.219  | ng | # 46   |
| 70) Phenanthrene               | 11.44 | 178 | 799634 | 32.953 | ng | 99     |
| 71) Anthracene                 | 11.49 | 178 | 220326 | 8.927  | ng | 98     |
| 72) Carbazole                  | 11.64 | 167 | 115831 | 4.791  | ng | # 88   |
| 74) Fluoranthene               | 12.63 | 202 | 761637 | 31.196 | ng | 99     |
| 77) Pyrene                     | 12.86 | 202 | 639654 | 30.854 | ng | 98     |
| 80) Benzo(a)anthracene         | 14.04 | 228 | 313920 | 18.880 | ng | 97     |
| 82) Chrysene                   | 14.09 | 228 | 313732 | 18.718 | ng | 97     |
| 85) Indeno(1,2,3-cd)pyrene     | 17.04 | 276 | 209022 | 15.036 | ng | 94     |
| 87) Benzo(b)fluoranthene       | 15.11 | 252 | 577260 | 29.648 | ng | # 87   |
| 88) Benzo(k)fluoranthene       | 15.11 | 252 | 577260 | 31.029 | ng | # 90   |
| 89) Benzo(a)pyrene             | 15.48 | 252 | 320067 | 18.263 | ng | # 84   |
| 90) Dibenzo(a,h)anthracene     | 17.04 | 278 | 47680  | 3.352  | ng | # 78   |
| 91) Benzo(g,h,i)perylene       | 17.49 | 276 | 190944 | 13.714 | ng | 96     |

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

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Misc :  
ALS Vial : 11 Sample Multiplier: 1

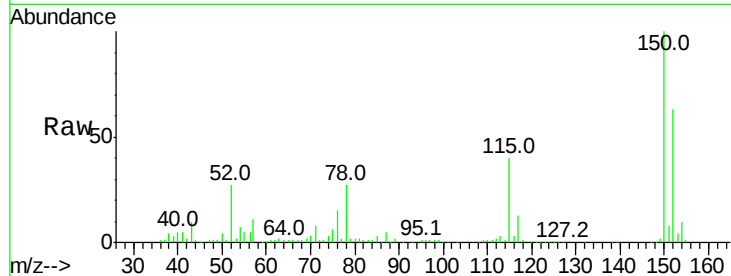
Quant Time: Feb 06 14:44:10 2018  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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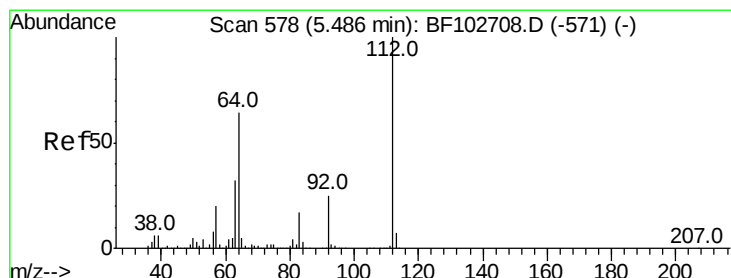
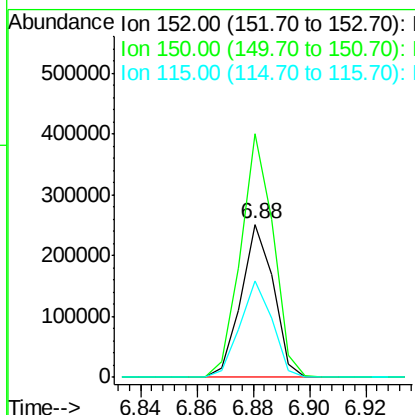
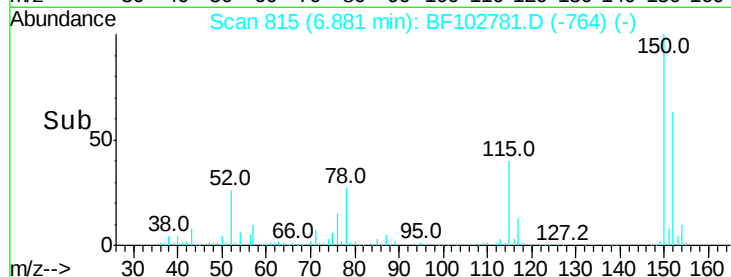


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.88 min Scan# 815  
 Delta R.T. 0.00 min  
 Lab File: BF102781.D  
 Acq: 6 Feb 2018 13:57

Tot Ion:152 Resp: 199944  
 Ion Ratio Lower Upper  
 152 100  
 150 159.1 124.6 186.8  
 115 63.3 50.1 75.1

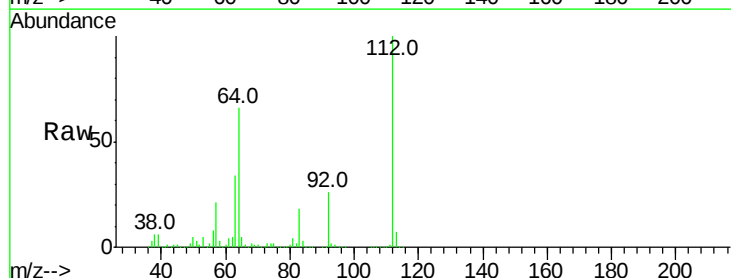


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

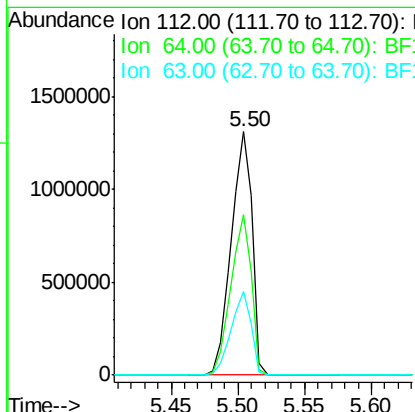
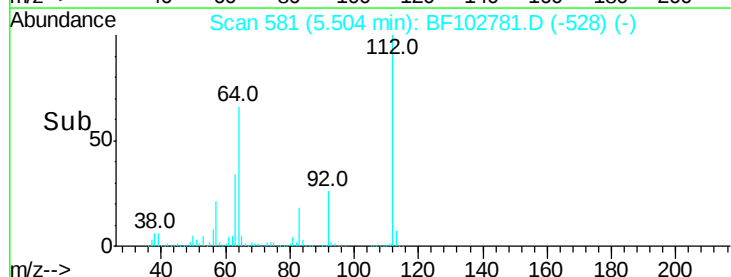


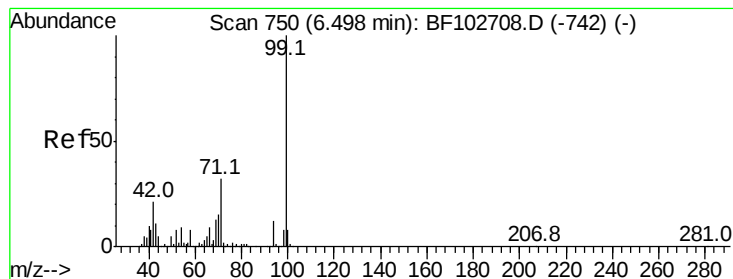
#5  
 2-Fluorophenol  
 Concen: 109.879 ng  
 RT: 5.50 min Scan# 581  
 Delta R.T. 0.01 min  
 Lab File: BF102781.D  
 Acq: 6 Feb 2018 13:57

Tgt Ion:112 Resp: 1446640  
 Ion Ratio Lower Upper  
 112 100  
 64 66.1 47.9 71.9  
 63 34.3 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: 107.793 ng

RT: 6.51 min Scan# 752

Delta R.T. 0.01 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

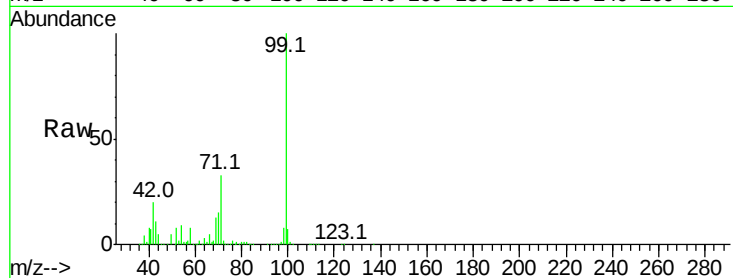
Tot Ion: 99 Resp: 1708788

Ion Ratio Lower Upper

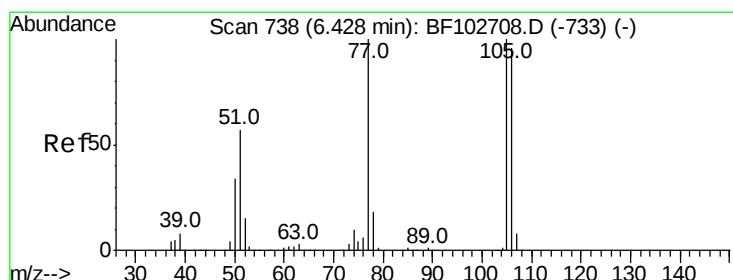
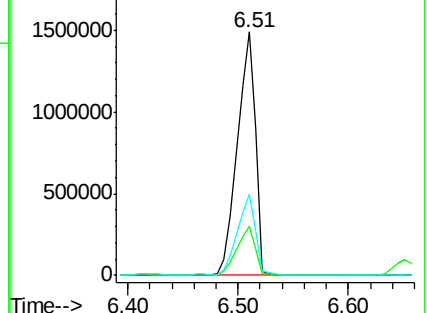
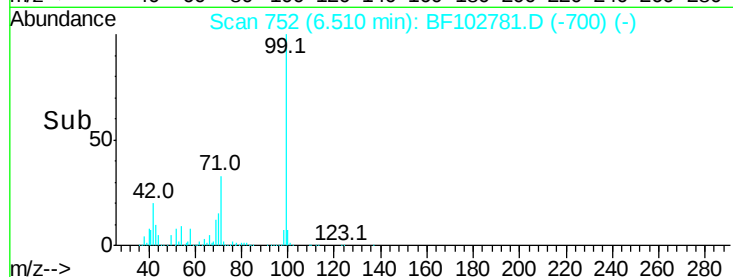
99 100

42 20.0 14.5 21.7

71 33.4 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



#9

Benzaldehyde

Concen: 2.677 ng

RT: 6.65 min Scan# 776

Delta R.T. 0.22 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

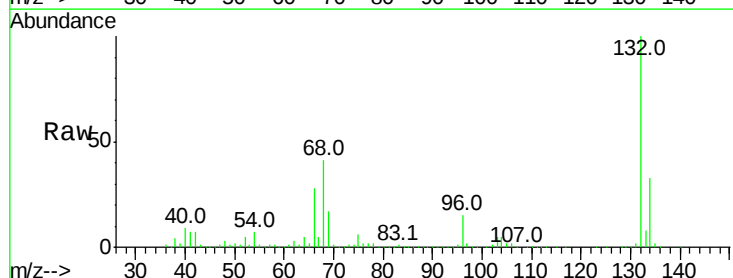
Tgt Ion: 77 Resp: 31510

Ion Ratio Lower Upper

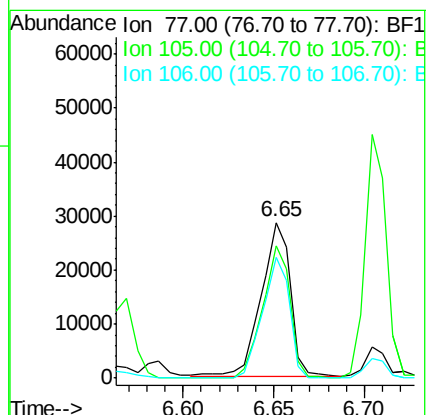
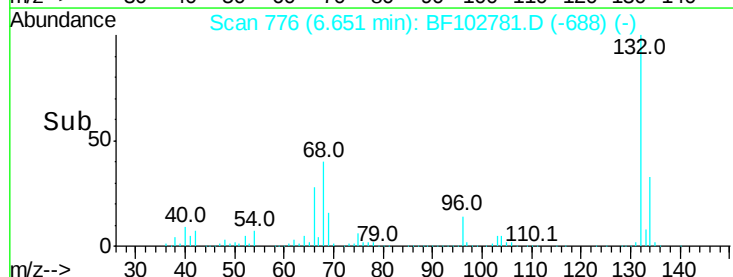
77 100

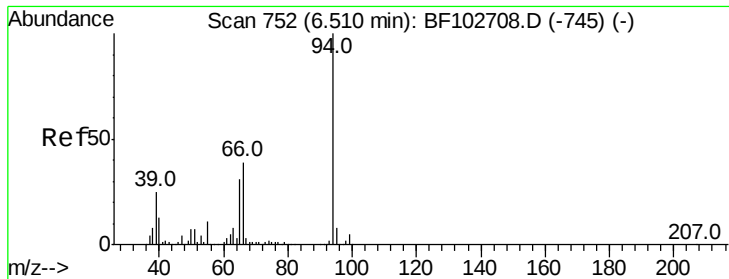
105 84.8 81.1 121.1

106 77.6 74.5 114.5



Abundance Ion 77.00 (76.70 to 77.70): BF1  
Ion 105.00 (104.70 to 105.70): BF1  
Ion 106.00 (105.70 to 106.70): BF1





#10

Phenol

Concen: 2.852 ng

RT: 6.52 min Scan# 754

Delta R.T. 0.00 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

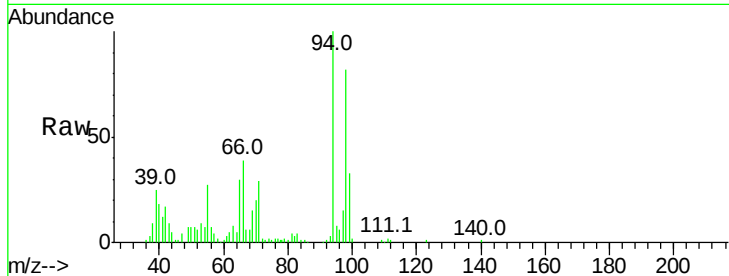
Tot Ion: 94 Resp: 48448

Ion Ratio Lower Upper

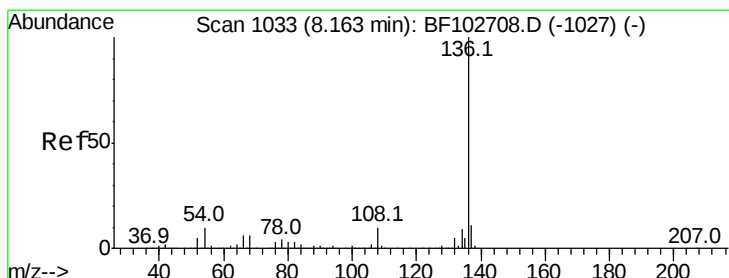
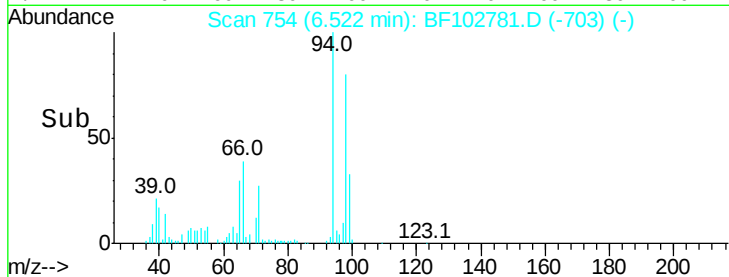
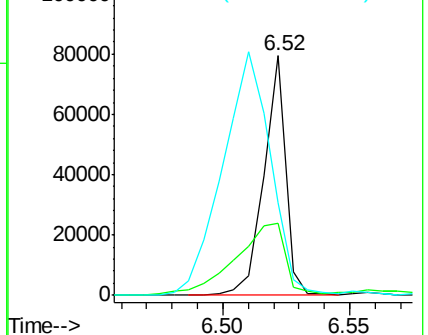
94 100

65 29.9 7.9 47.9

66 38.7 16.2 56.2



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.16 min Scan# 1033

Delta R.T. -0.01 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

Tgt Ion: 136 Resp: 827619

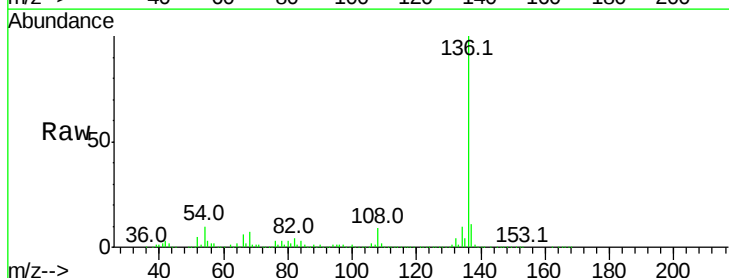
Ion Ratio Lower Upper

136 100

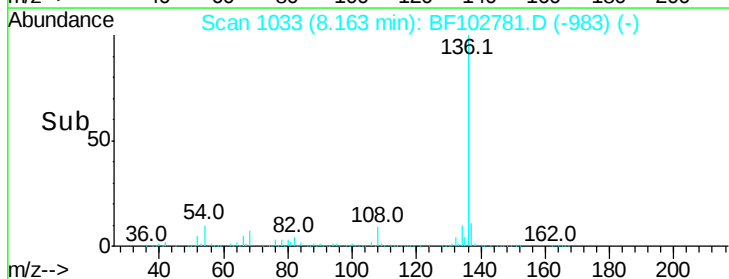
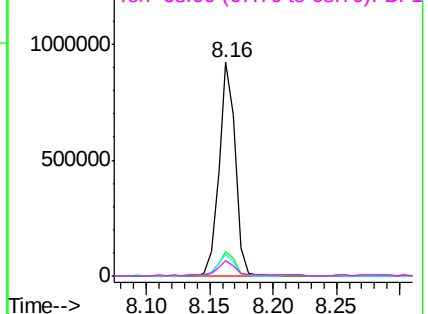
137 11.3 8.9 13.3

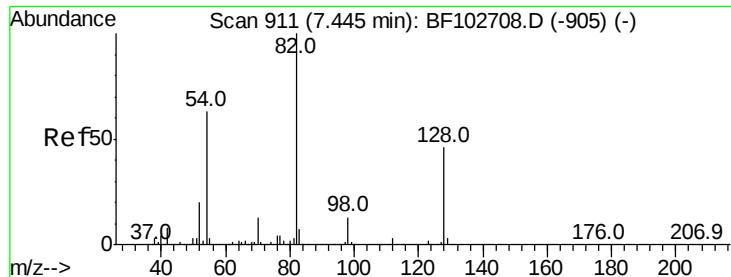
54 10.4 6.6 9.8#

68 7.0 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

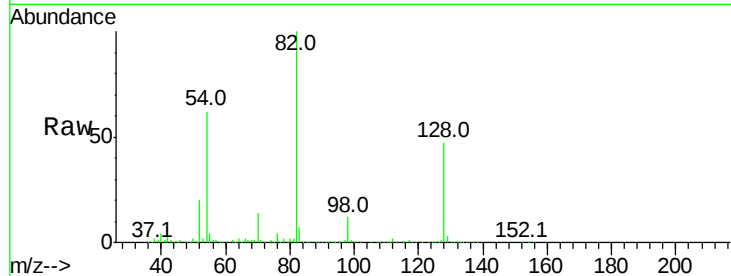




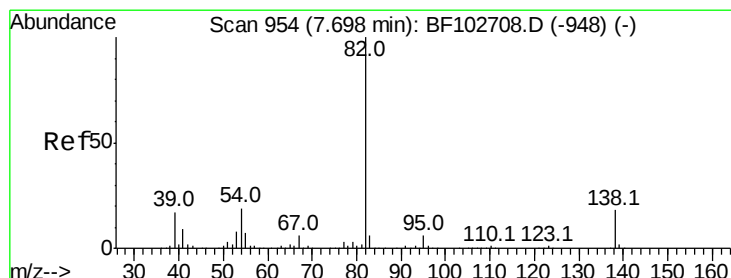
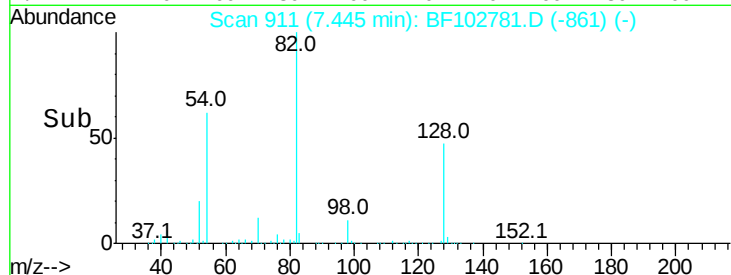
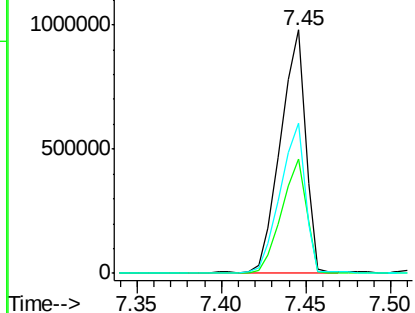
#23  
Nitrobenzene-d5  
Concen: 83.853 ng  
RT: 7.45 min Scan# 911  
Delta R.T. -0.01 min  
Lab File: BF102781.D  
Acq: 6 Feb 2018 13:57

Tot Ion: 82 Resp: 1000403

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 47.2  | 36.1  | 54.1  |
| 54  | 61.8  | 41.4  | 62.2  |



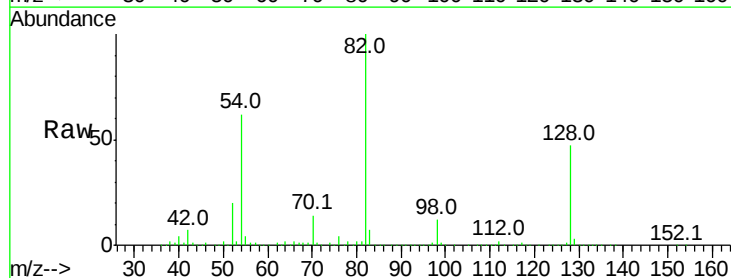
Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1



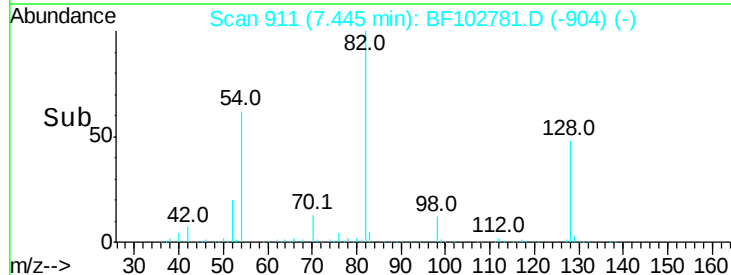
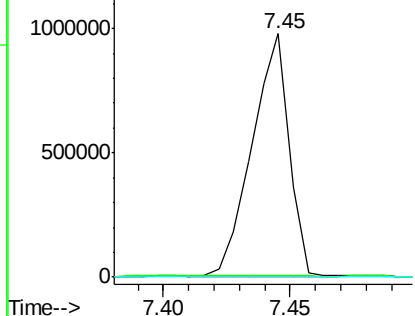
#25  
Isophorone  
Concen: 35.948 ng  
RT: 7.45 min Scan# 911  
Delta R.T. -0.26 min  
Lab File: BF102781.D  
Acq: 6 Feb 2018 13:57

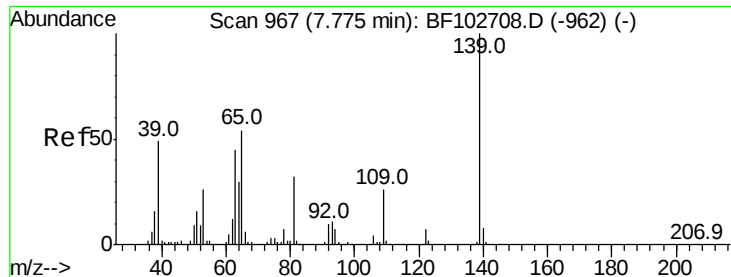
Tgt Ion: 82 Resp: 987544

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 95  | 0.5   | 5.2   | 7.8#  |
| 138 | 0.0   | 14.9  | 22.3# |



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





#26

2-Nitrophenol

Concen: 8.910 ng

RT: 7.78 min Scan# 968

Delta R.T. 0.00 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

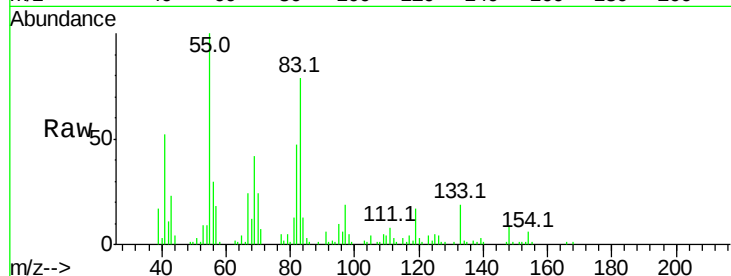
Tot Ion:139 Resp: 1718

Ion Ratio Lower Upper

139 100

109 173.7 22.7 34.1#

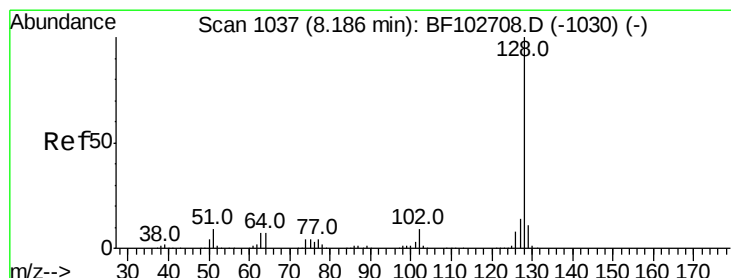
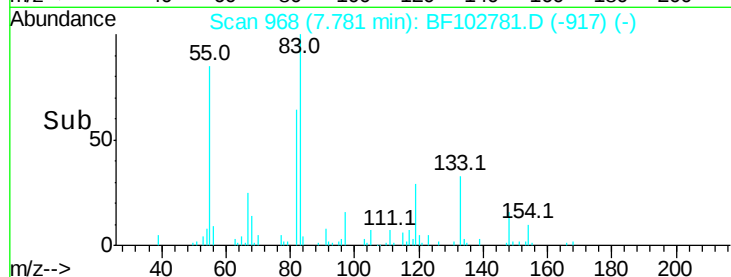
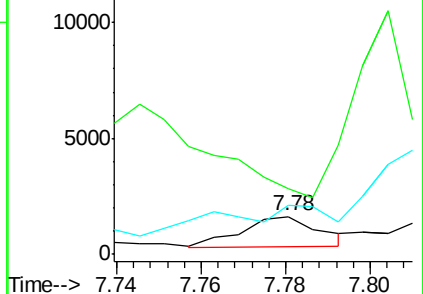
65 129.8 40.5 60.7#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1



#31

Naphthalene

Concen: 4.759 ng

RT: 8.19 min Scan# 1037

Delta R.T. -0.01 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

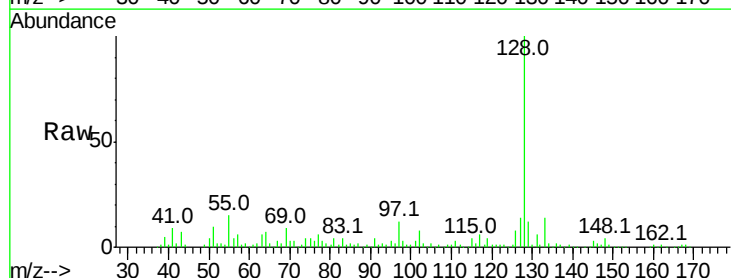
Tgt Ion:128 Resp: 192439

Ion Ratio Lower Upper

128 100

129 12.2 8.8 13.2

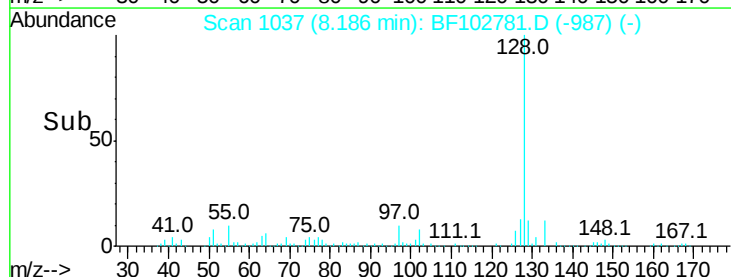
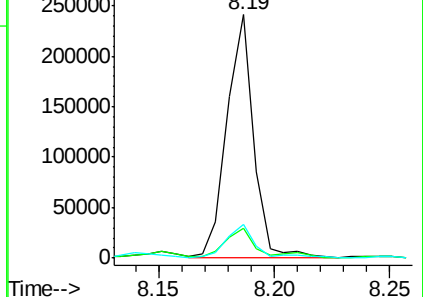
127 13.7 10.9 16.3

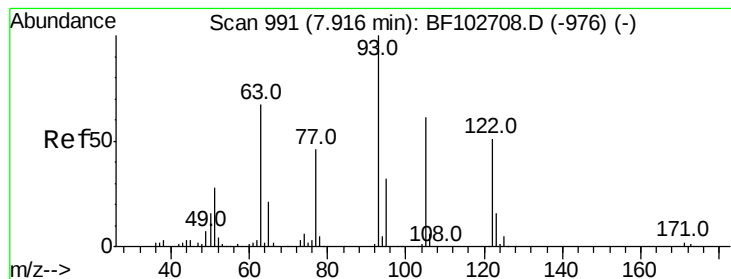


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#32

Benzoic acid

Concen: 9.423 ng

RT: 7.85 min Scan# 979

Delta R.T. -0.09 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

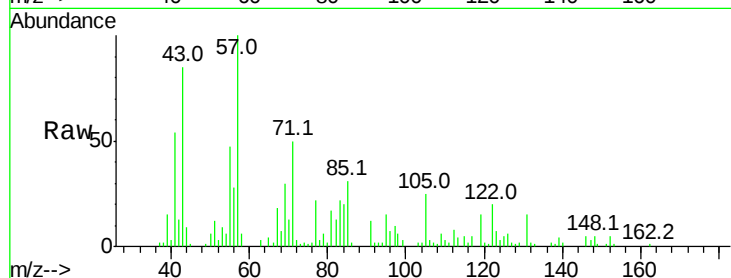
Tot Ion:122 Resp: 7469

Ion Ratio Lower Upper

122 100

105 122.5 101.1 141.1

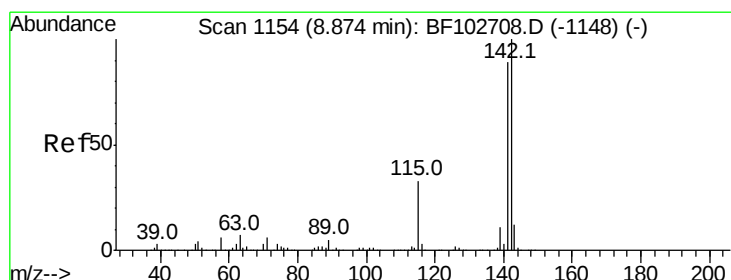
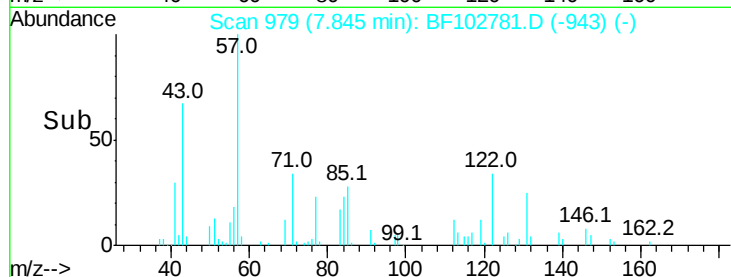
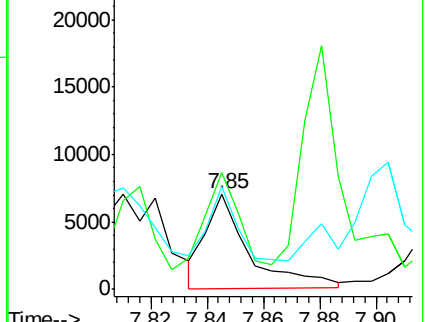
77 107.6 70.7 110.7



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1



#37

2-Methylnaphthalene

Concen: 3.339 ng

RT: 8.87 min Scan# 1154

Delta R.T. -0.01 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

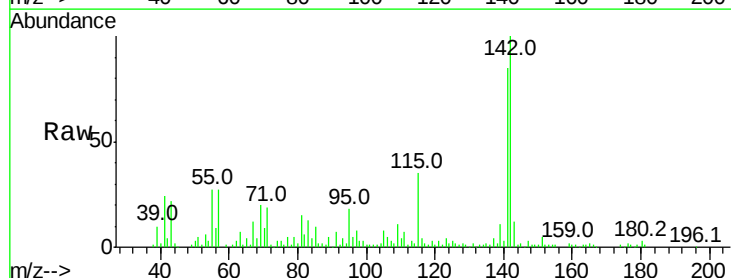
Tgt Ion:142 Resp: 88400

Ion Ratio Lower Upper

142 100

141 84.7 70.8 106.2

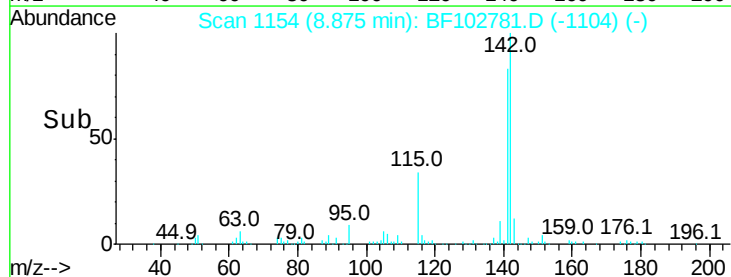
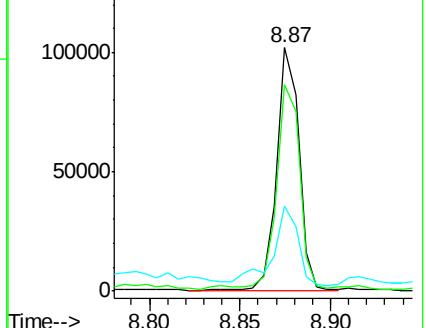
115 34.9 26.1 39.1

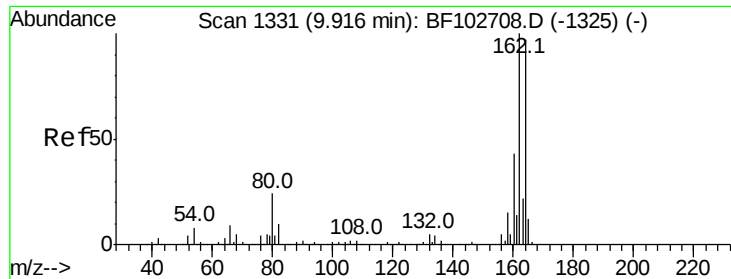


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

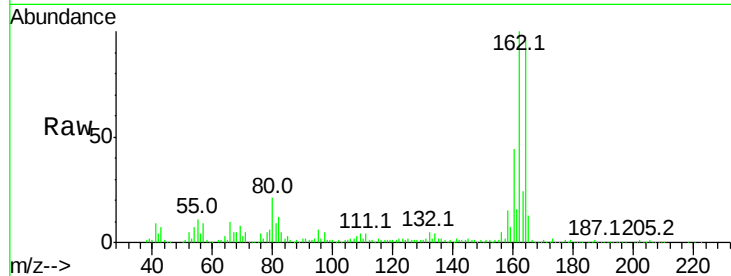
Ion 115.00 (114.70 to 115.70): E



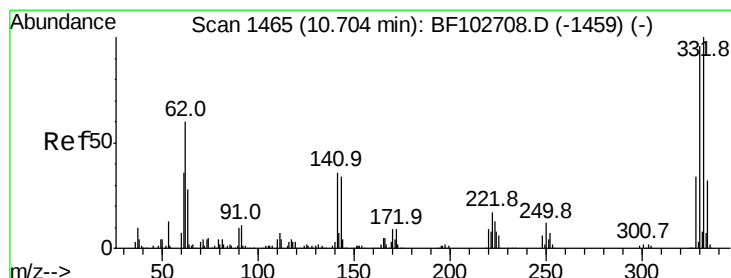
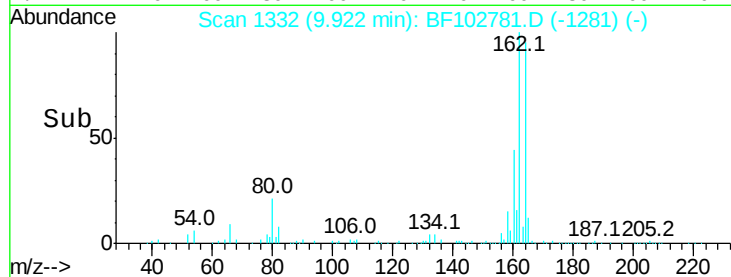
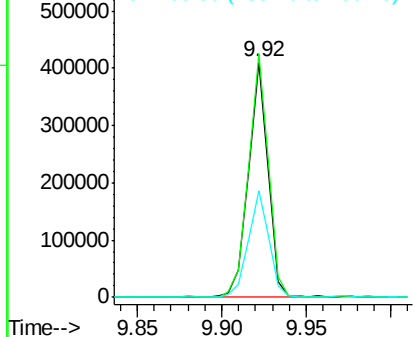


#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.92 min Scan# 1332  
 Delta R.T. 0.00 min  
 Lab File: BF102781.D  
 Acq: 6 Feb 2018 13:57

Tot Ion:164 Resp: 334382  
 Ion Ratio Lower Upper  
 164 100  
 162 103.6 86.1 129.1  
 160 45.6 38.3 57.5

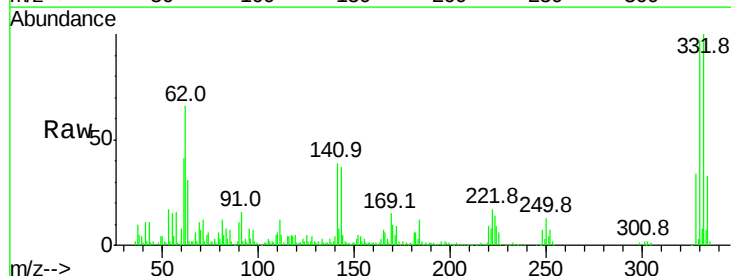


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

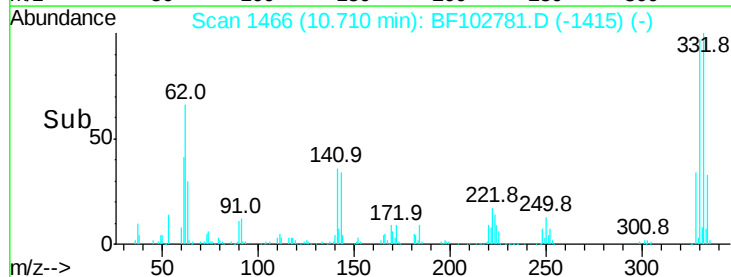
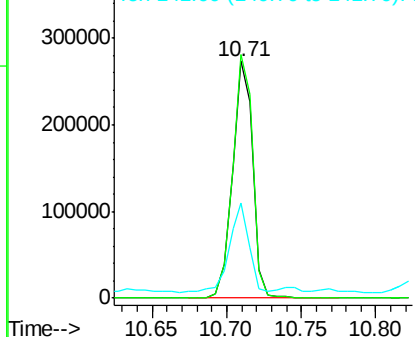


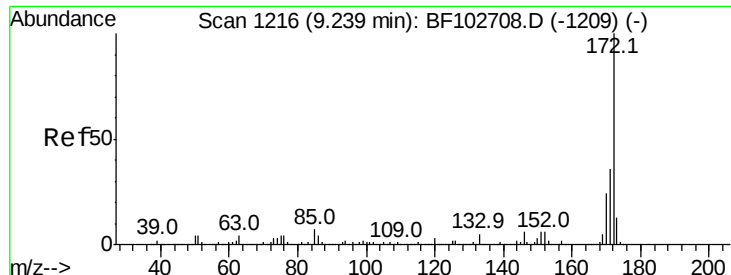
#41  
 2,4,6-Tribromophenol  
 Concen: 97.142 ng  
 RT: 10.71 min Scan# 1466  
 Delta R.T. 0.00 min  
 Lab File: BF102781.D  
 Acq: 6 Feb 2018 13:57

Tgt Ion:330 Resp: 261446  
 Ion Ratio Lower Upper  
 330 100  
 332 102.2 77.0 115.6  
 141 36.6 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

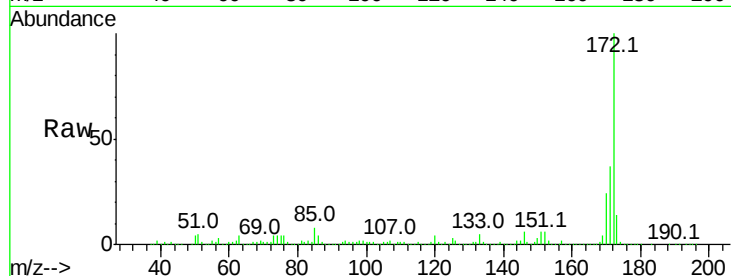




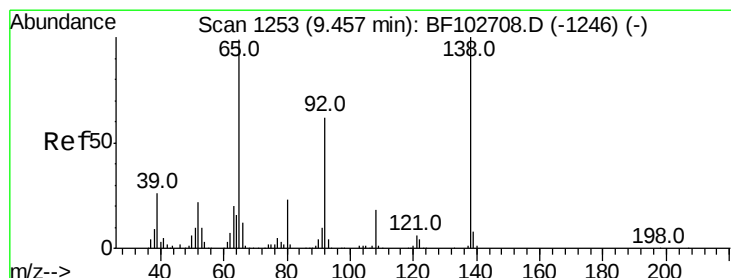
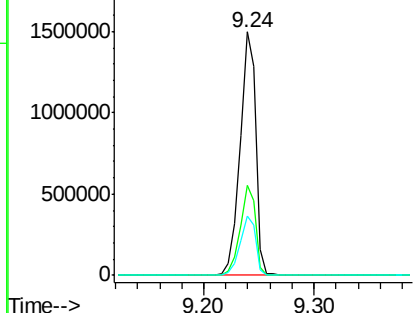
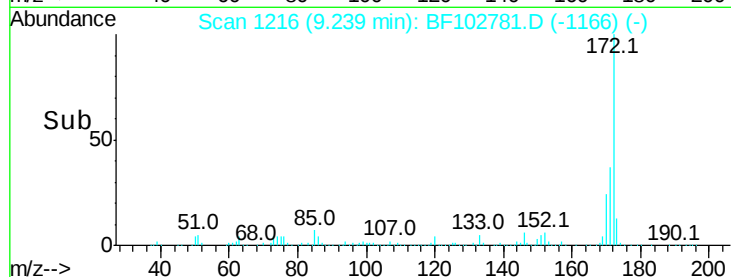
#44  
 2-Fluorobiphenyl  
 Concen: 74.281 ng  
 RT: 9.24 min Scan# 1216  
 Delta R.T. -0.01 min  
 Lab File: BF102781.D  
 Acq: 6 Feb 2018 13:57

Tot Ion:172 Resp: 1496870  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 36.8  | 29.7  | 44.5  |
| 170 | 24.4  | 19.6  | 29.4  |



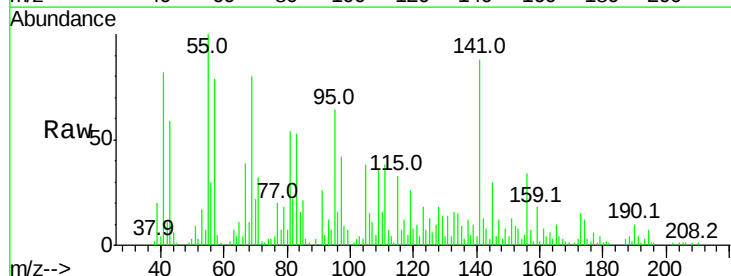
Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E



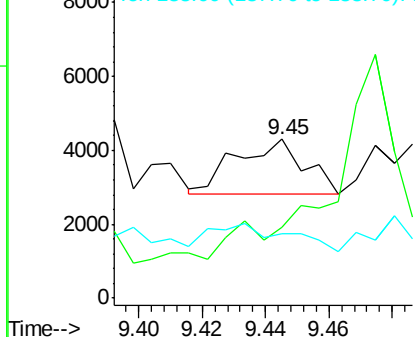
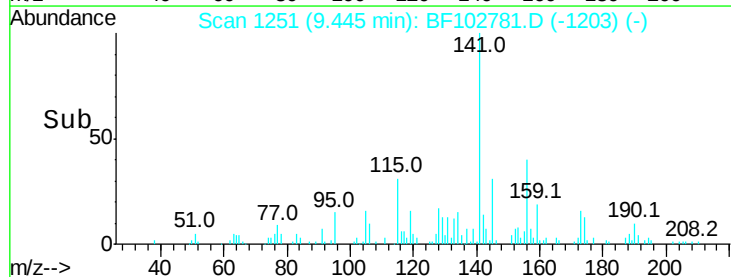
#47  
 2-Nitroaniline  
 Concen: 3.772 ng  
 RT: 9.45 min Scan# 1251  
 Delta R.T. -0.02 min  
 Lab File: BF102781.D  
 Acq: 6 Feb 2018 13:57

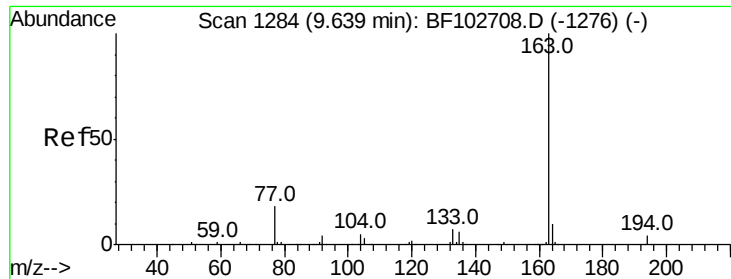
Tgt Ion: 65 Resp: 2208  

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 65  | 100   |       |        |
| 92  | 44.6  | 55.8  | 83.6#  |
| 138 | 40.6  | 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): E





#49

Dimethylphthalate

Concen: 7.491 ng

RT: 9.63 min Scan# 1282

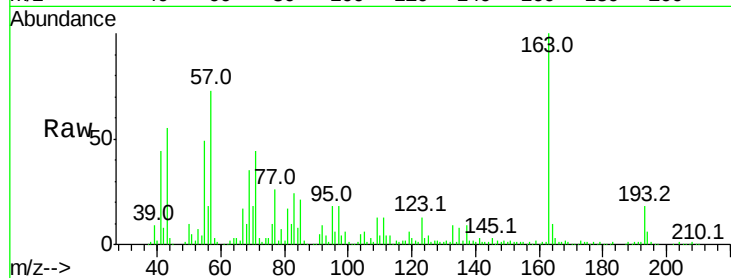
Delta R.T. -0.02 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

Tot Ion:163 Resp: 195310

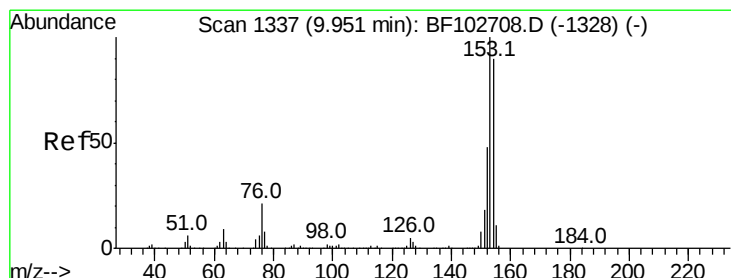
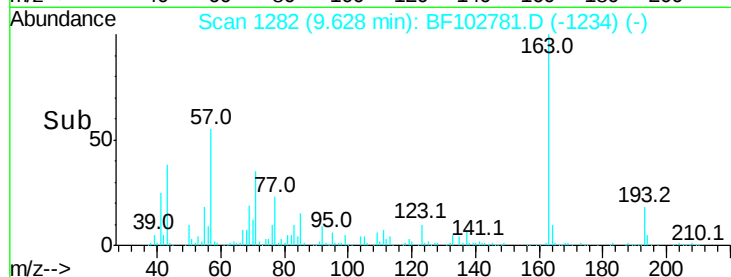
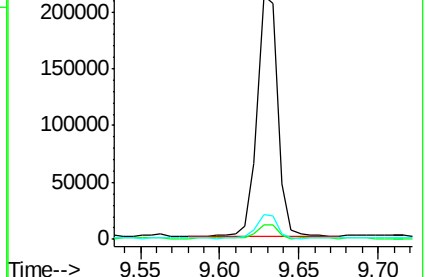
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 163 | 100   |       |       |
| 194 | 5.8   | 2.7   | 4.1#  |
| 164 | 10.1  | 8.2   | 12.2  |



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



#51

Acenaphthene

Concen: 5.263 ng

RT: 9.95 min Scan# 1337

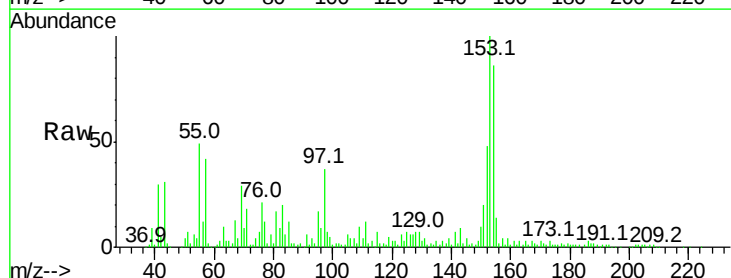
Delta R.T. -0.01 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

Tgt Ion:154 Resp: 108400

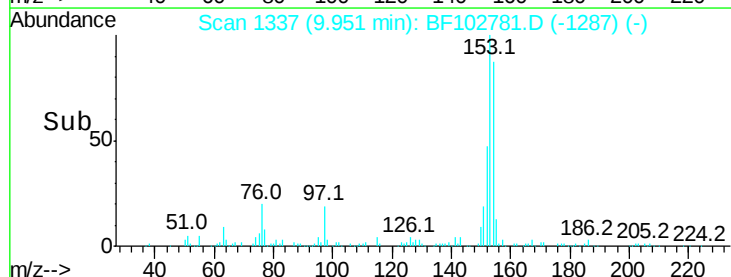
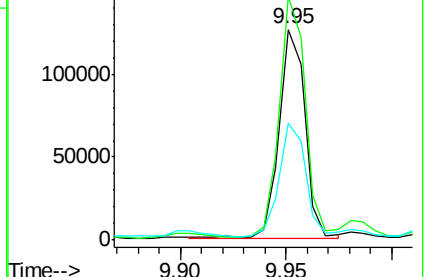
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 154 | 100   |       |       |
| 153 | 115.6 | 91.2  | 136.8 |
| 152 | 55.5  | 43.8  | 65.8  |

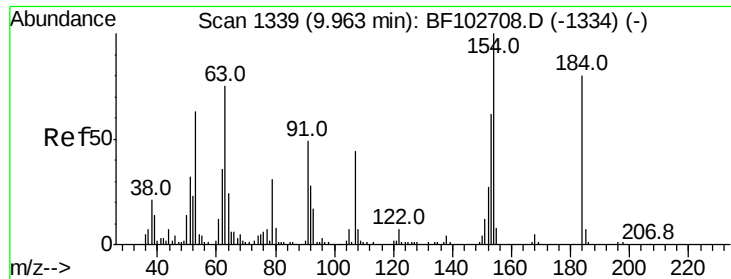


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

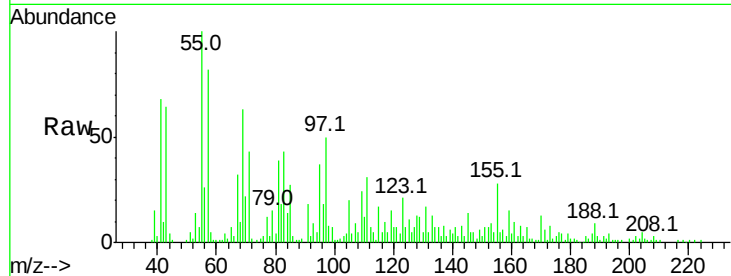
Ion 152.00 (151.70 to 152.70): E



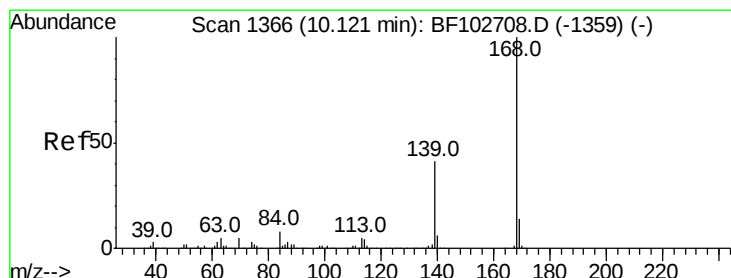
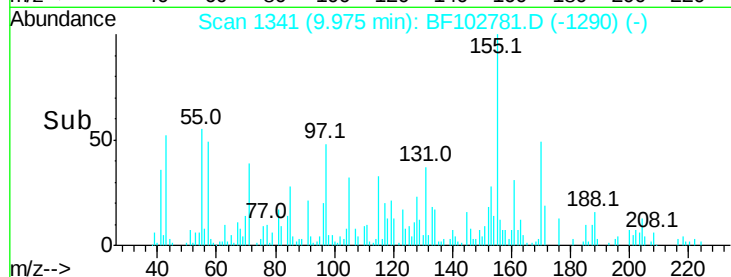
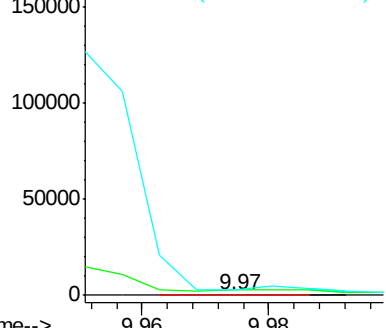


#53  
2,4-Dinitrophenol  
Concen: 8.040 ng  
RT: 9.97 min Scan# 1341  
Delta R.T. 0.00 min  
Lab File: BF102781.D  
Acq: 6 Feb 2018 13:57

Tot Ion:184 Resp: 108  
Ion Ratio Lower Upper  
184 100  
63 871.3 54.2 81.2#  
154 1008.5 184.0 276.0#

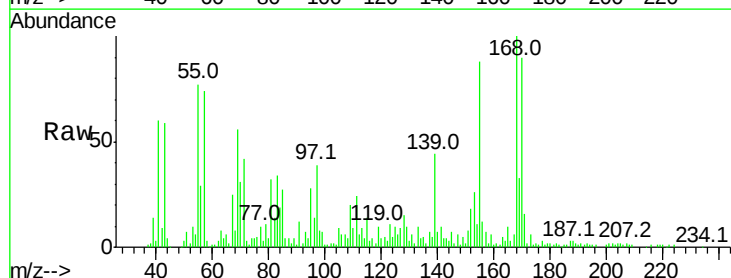


Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 154.00 (153.70 to 154.70): E

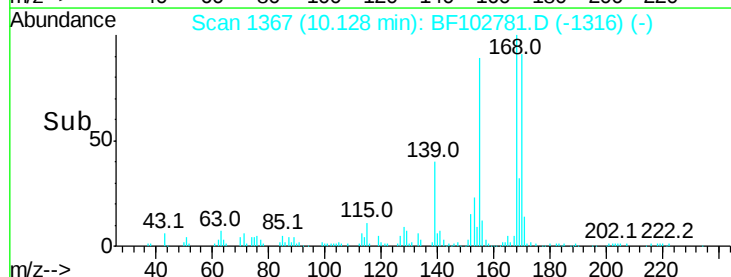
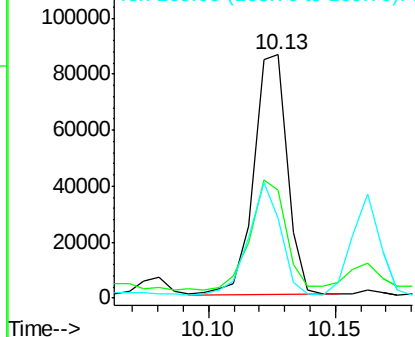


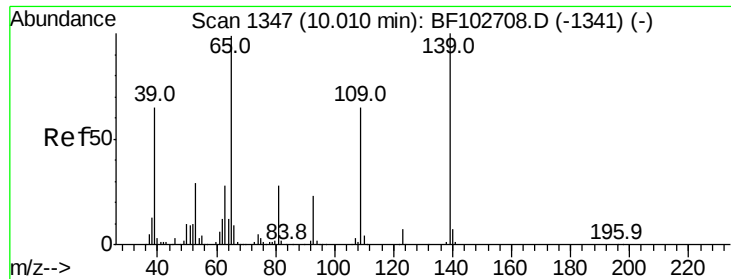
#54  
Dibenzofuran  
Concen: 2.733 ng  
RT: 10.13 min Scan# 1367  
Delta R.T. 0.00 min  
Lab File: BF102781.D  
Acq: 6 Feb 2018 13:57

Tgt Ion:168 Resp: 79331  
Ion Ratio Lower Upper  
168 100  
139 44.4 30.1 45.1  
169 32.7 10.9 16.3#



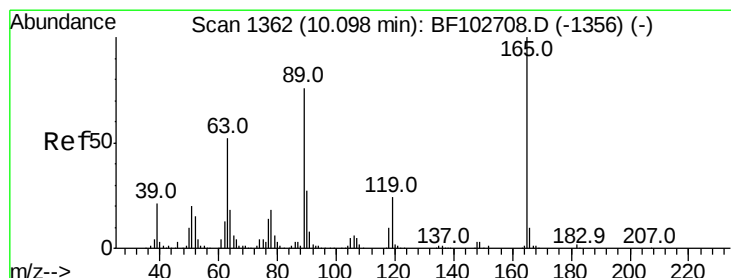
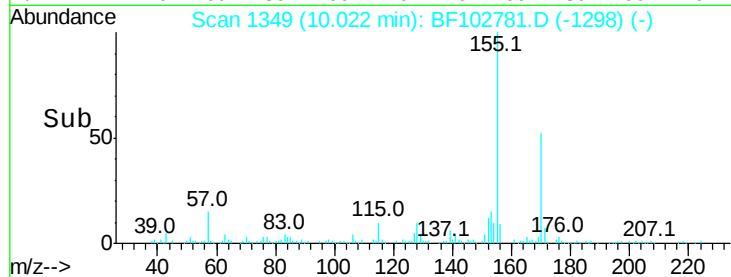
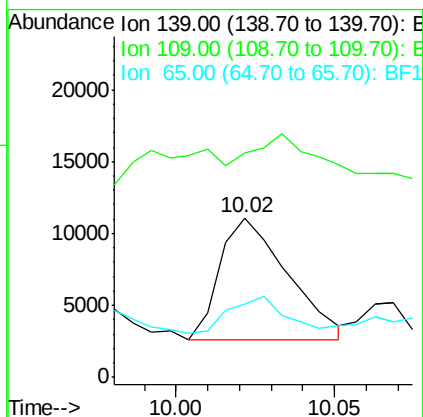
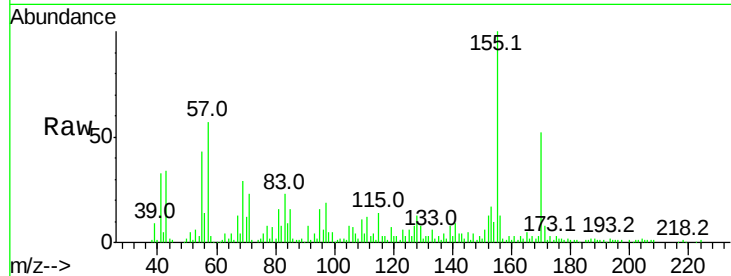
Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E





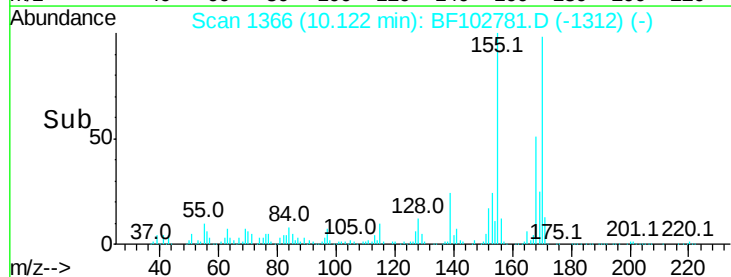
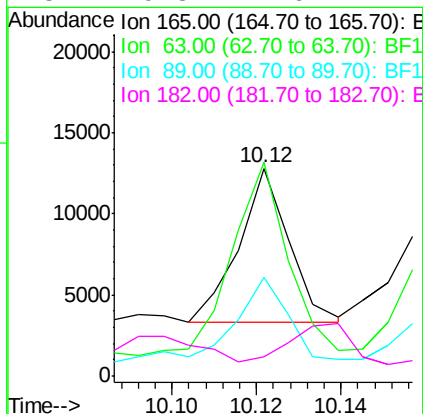
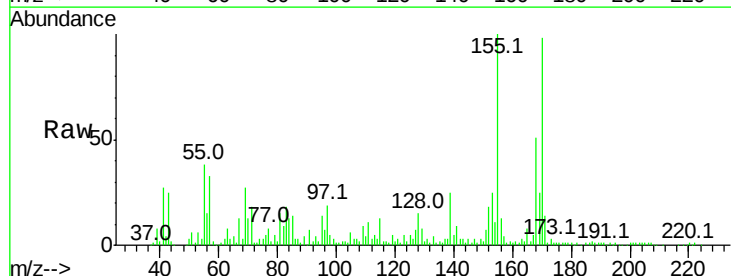
#55  
4-Nitrophenol  
Concen: 6.410 ng  
RT: 10.02 min Scan# 1349  
Delta R.T. 0.00 min  
Lab File: BF102781.D  
Acq: 6 Feb 2018 13:57

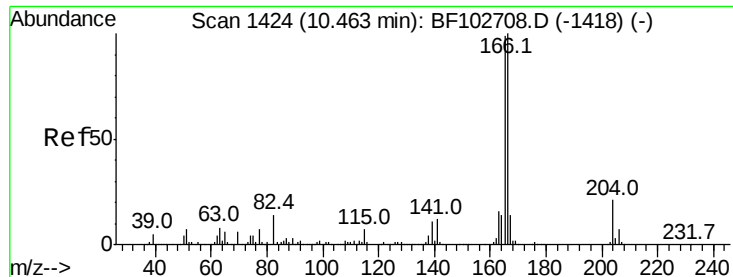
Tot Ion:139 Resp: 12604  
Ion Ratio Lower Upper  
139 100  
109 141.4 48.4 88.4#  
65 46.2 72.6 112.6#



#56  
2,4-Dinitrotoluene  
Concen: 4.183 ng  
RT: 10.12 min Scan# 1366  
Delta R.T. 0.02 min  
Lab File: BF102781.D  
Acq: 6 Feb 2018 13:57

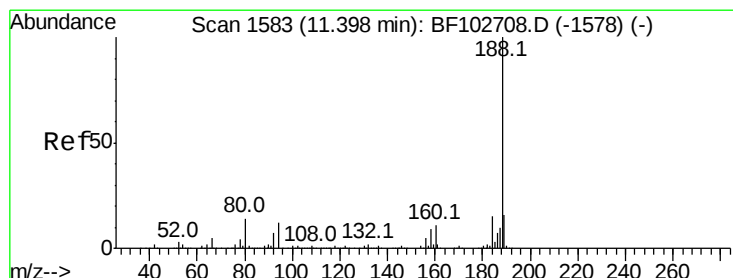
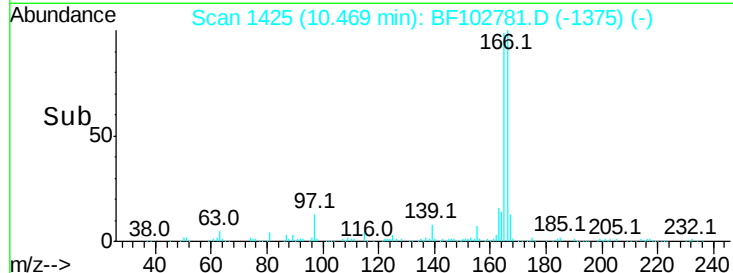
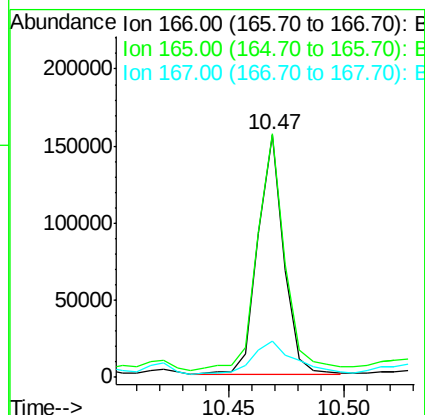
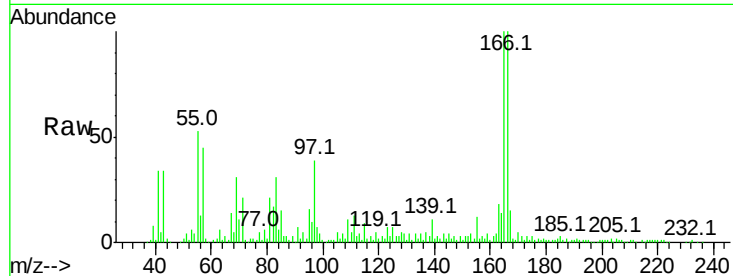
Tgt Ion:165 Resp: 7873  
Ion Ratio Lower Upper  
165 100  
63 102.9 36.4 54.6#  
89 47.7 57.8 86.6#  
182 9.3 1.6 2.4#





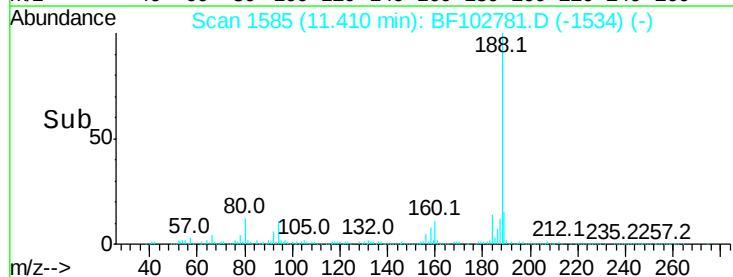
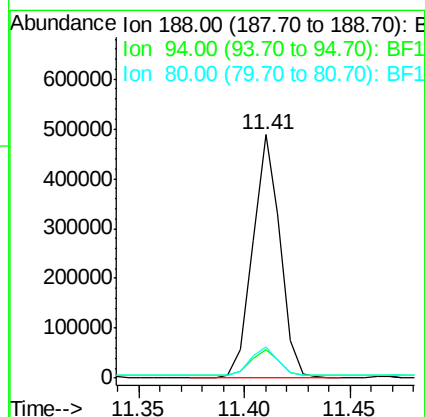
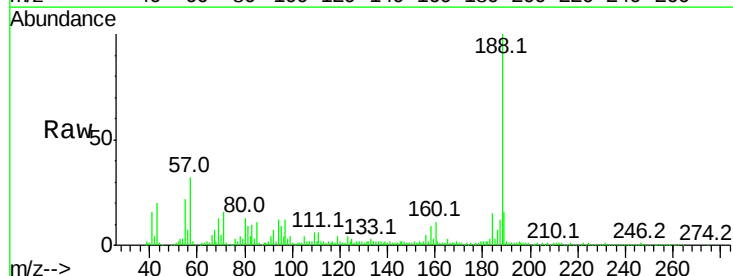
#57  
 Fluorene  
 Concen: 5.812 ng  
 RT: 10.47 min Scan# 1425  
 Delta R.T. -0.01 min  
 Lab File: BF102781.D  
 Acq: 6 Feb 2018 13:57

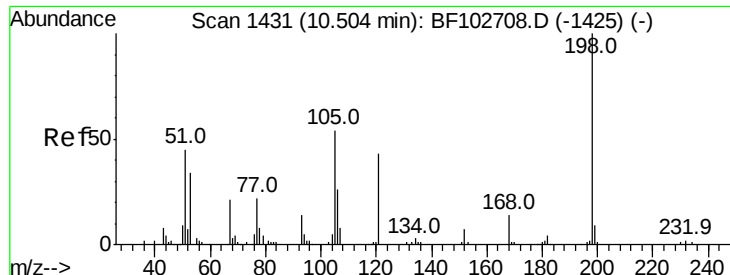
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 100.3 | 79.8  | 119.8 |
| 167     | 14.9  | 10.6  | 16.0  |



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.41 min Scan# 1585  
 Delta R.T. 0.00 min  
 Lab File: BF102781.D  
 Acq: 6 Feb 2018 13:57

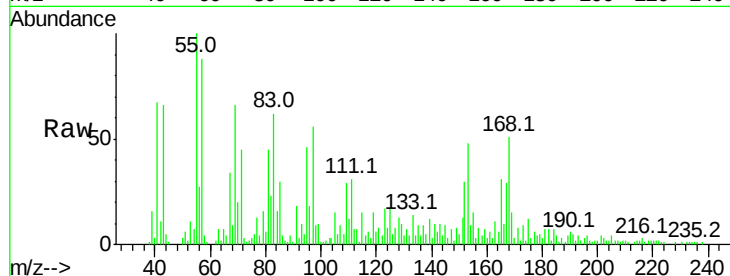
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 11.9  | 8.5   | 12.7  |
| 80      | 12.9  | 9.2   | 13.8  |



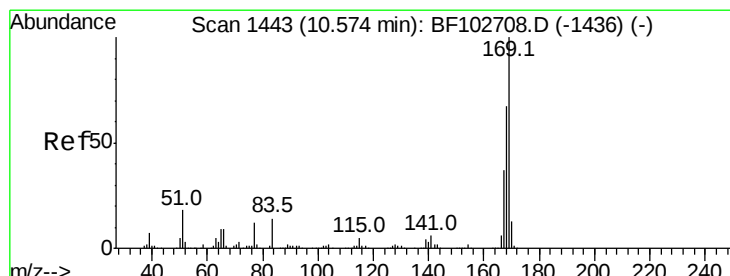
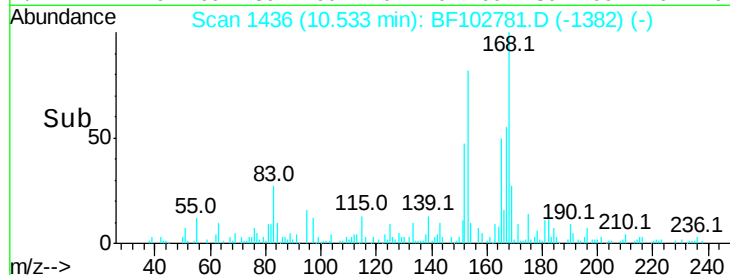
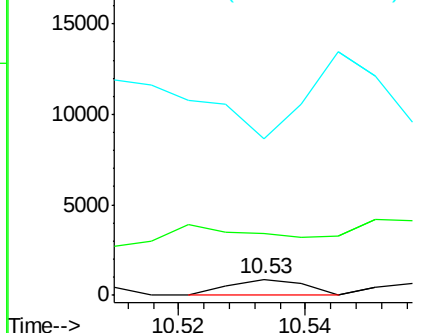


#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 9.153 ng  
 RT: 10.53 min Scan# 1436  
 Delta R.T. 0.02 min  
 Lab File: BF102781.D  
 Acq: 6 Feb 2018 13:57

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 198     | 100   |       |       |
| 51      | 390.1 | 37.7  | 77.7# |
| 105     | 984.6 | 36.3  | 76.3# |

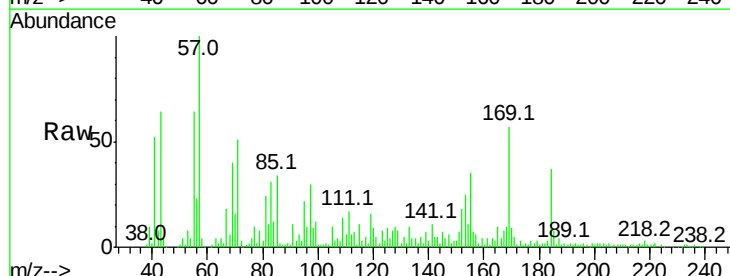


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF1  
 Ion 105.00 (104.70 to 105.70): E

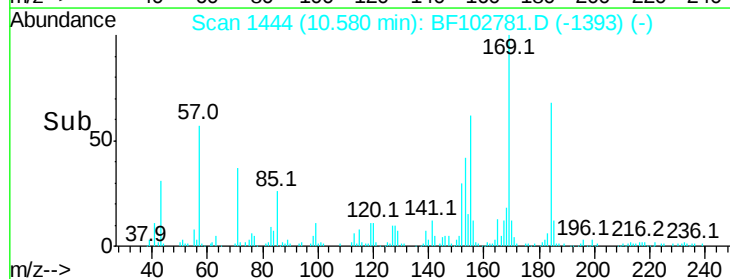
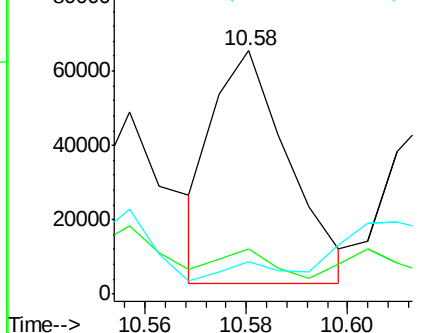


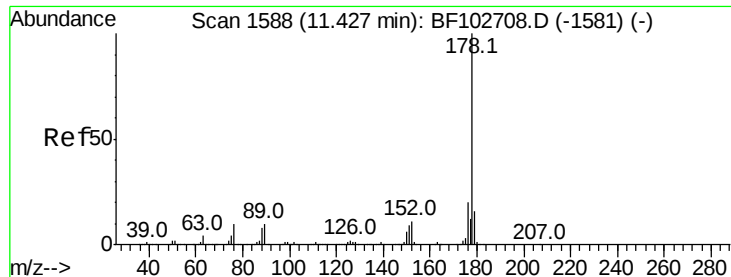
#65  
 n-Nitrosodiphenylamine  
 Concen: 4.219 ng  
 RT: 10.58 min Scan# 1444  
 Delta R.T. 0.00 min  
 Lab File: BF102781.D  
 Acq: 6 Feb 2018 13:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 169     | 100   |       |       |
| 168     | 18.4  | 54.4  | 81.6# |
| 167     | 13.1  | 29.8  | 44.6# |



Abundance Ion 169.00 (168.70 to 169.70): E  
 Ion 168.00 (167.70 to 168.70): E  
 Ion 167.00 (166.70 to 167.70): E





#70

Phenanthrene

Concen: 32.953 ng

RT: 11.44 min Scan# 1590

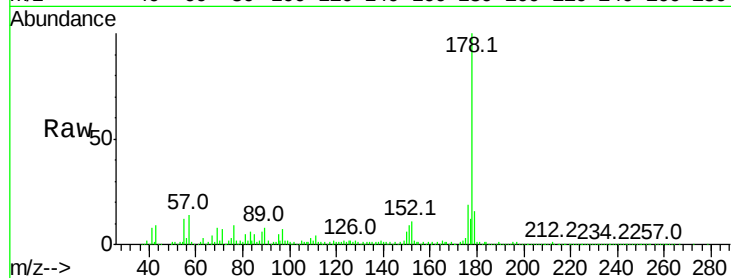
Delta R.T. 0.01 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

Tot Ion:178 Resp: 799634

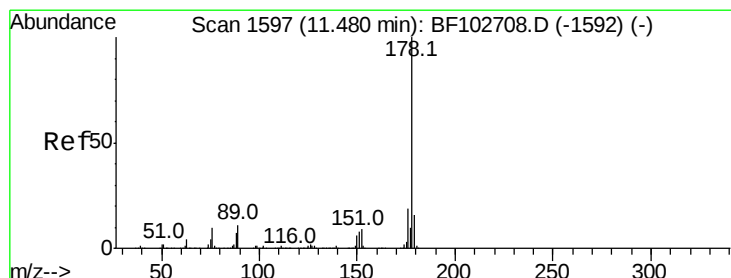
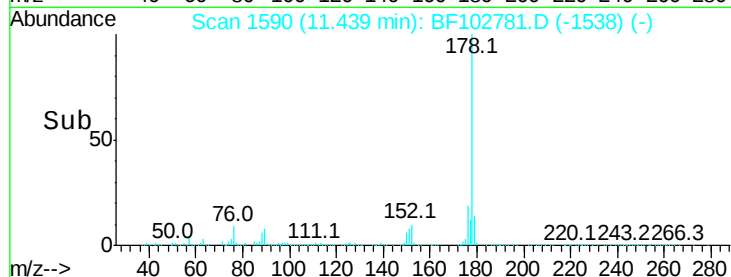
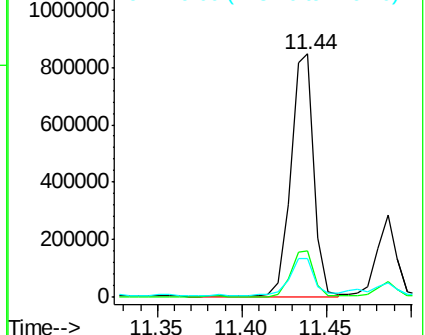
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 19.0  | 15.8  | 23.8  |
| 179 | 15.8  | 13.0  | 19.6  |



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



#71

Anthracene

Concen: 8.927 ng

RT: 11.49 min Scan# 1598

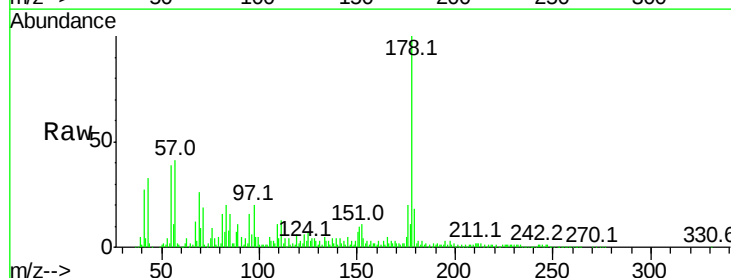
Delta R.T. 0.00 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

Tgt Ion:178 Resp: 220326

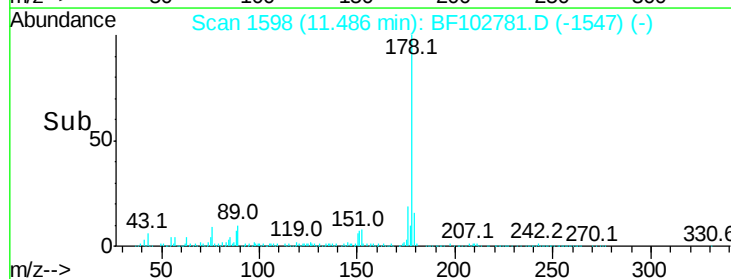
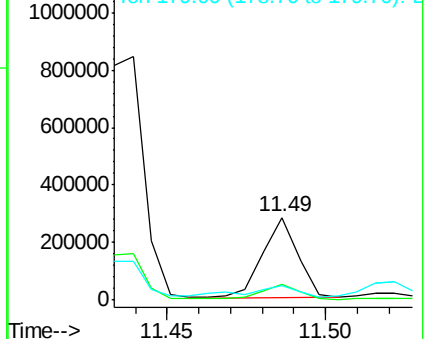
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 19.6  | 15.4  | 23.2  |
| 179 | 17.6  | 12.6  | 19.0  |

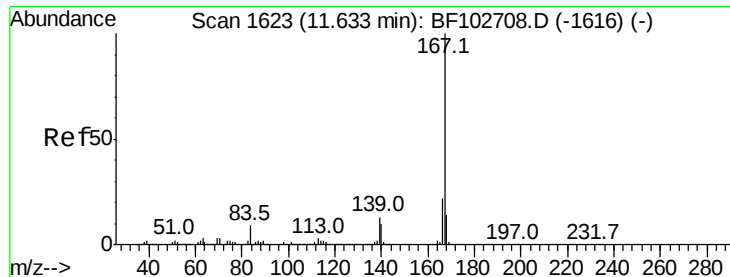


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 4.791 ng

RT: 11.64 min Scan# 1624

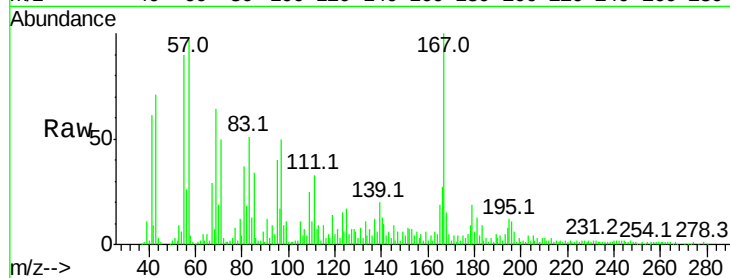
Delta R.T. 0.00 min

Lab File: BF102781.D

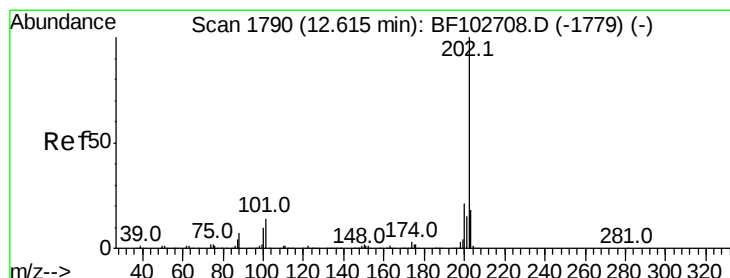
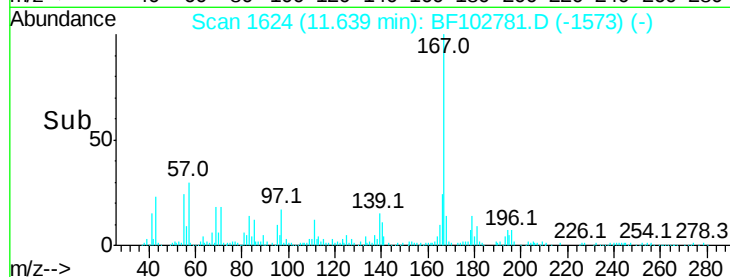
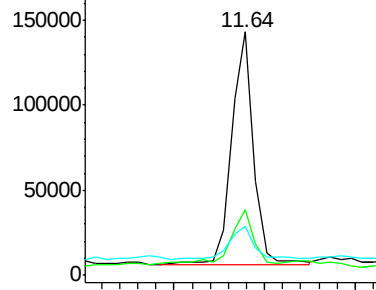
Acq: 6 Feb 2018 13:57

Tot Ion:167 Resp: 115831

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 167 | 100   |       |       |
| 166 | 26.8  | 17.6  | 26.4# |
| 139 | 20.2  | 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: 31.196 ng

RT: 12.63 min Scan# 1793

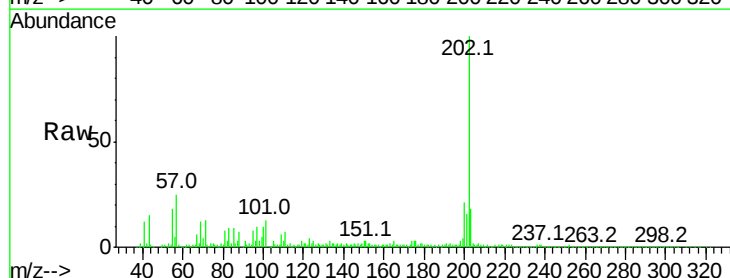
Delta R.T. 0.01 min

Lab File: BF102781.D

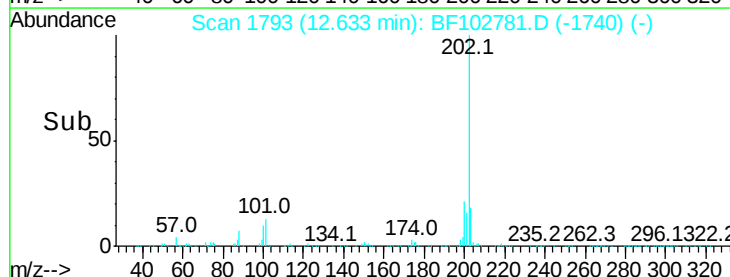
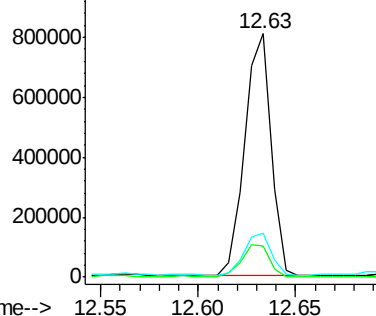
Acq: 6 Feb 2018 13:57

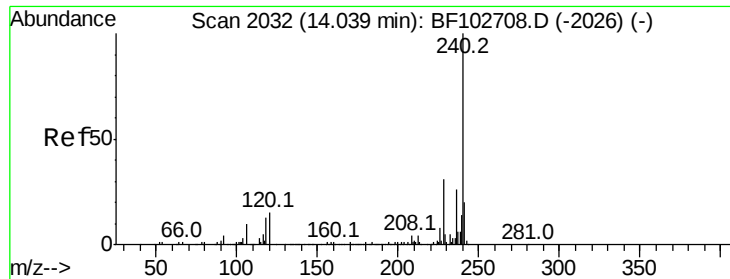
Tgt Ion:202 Resp: 761637

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 13.0  | 0.0   | 34.1  |
| 203 | 18.2  | 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: 20.000 ng

RT: 14.06 min Scan# 2035

Delta R.T. 0.01 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

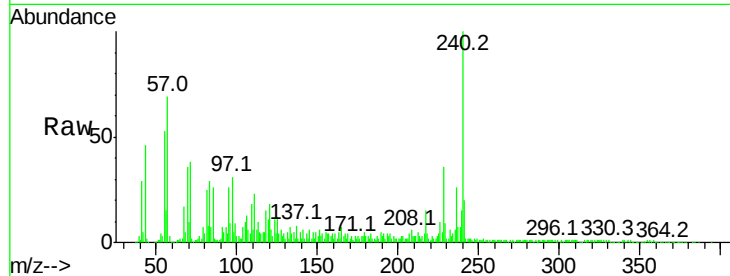
Tot Ion:240 Resp: 264378

Ion Ratio Lower Upper

240 100

120 17.7 9.5 14.3#

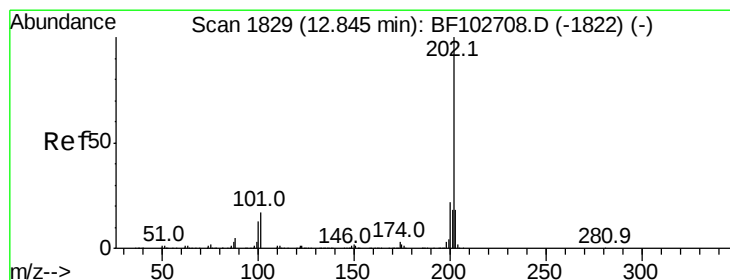
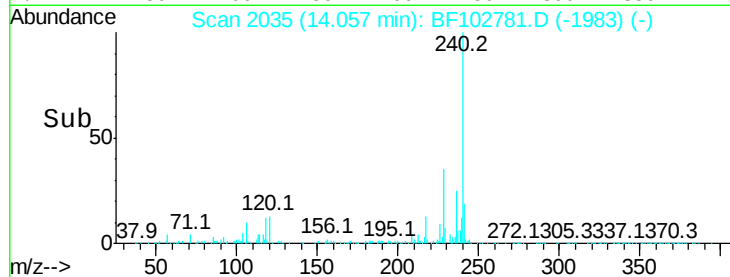
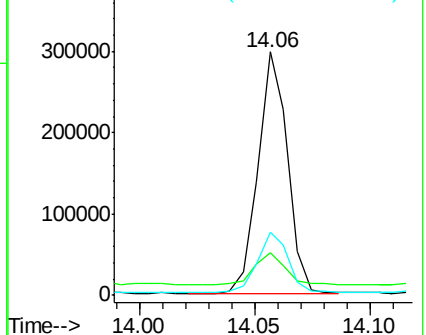
236 26.0 20.7 31.1



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

Pyrene

Concen: 30.854 ng

RT: 12.86 min Scan# 1832

Delta R.T. 0.01 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

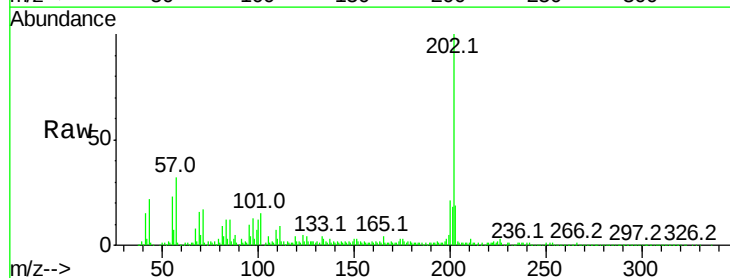
Tgt Ion:202 Resp: 639654

Ion Ratio Lower Upper

202 100

200 21.2 17.4 26.2

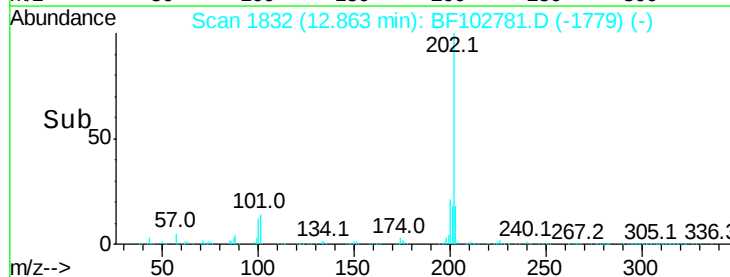
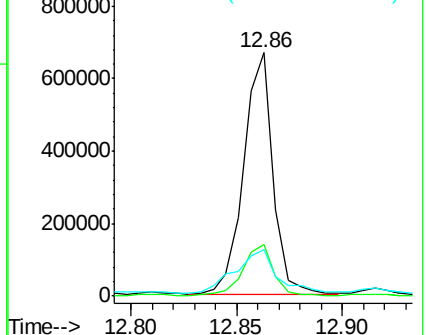
203 19.3 14.3 21.5

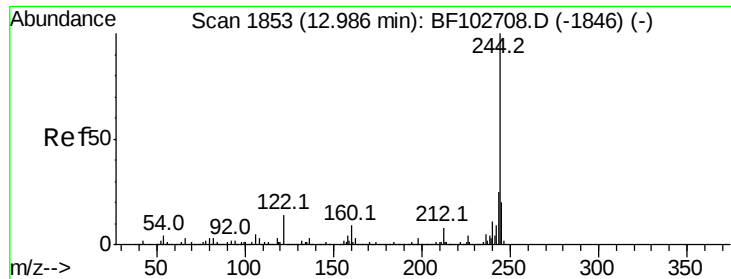


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 69.722 ng

RT: 13.00 min Scan# 1856

Delta R.T. 0.01 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

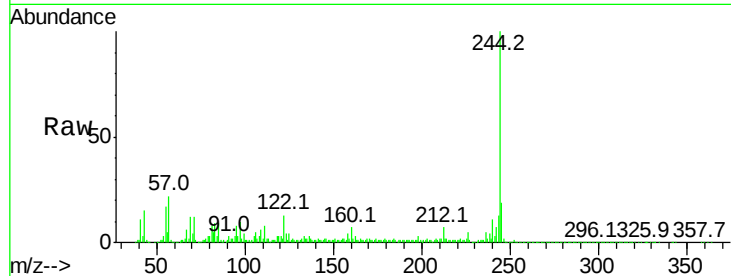
Tot Ion:244 Resp: 778488

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

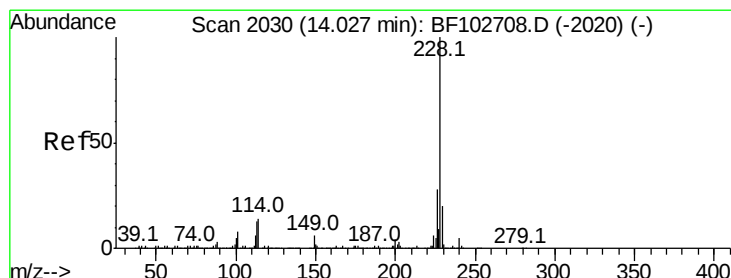
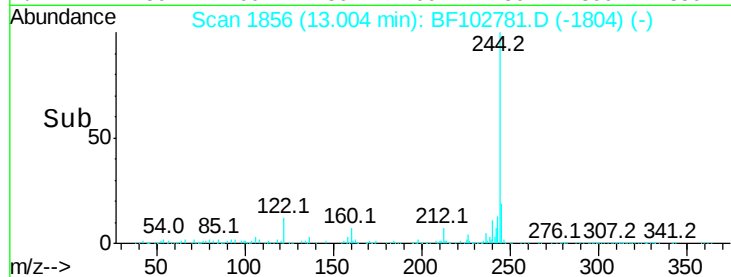
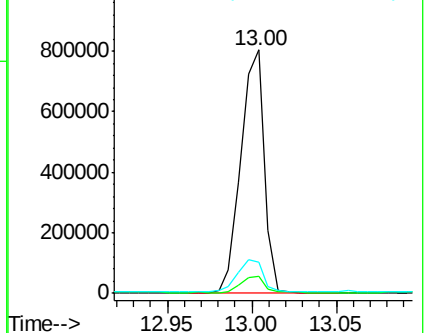
122 12.8 11.0 16.4



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: 18.880 ng

RT: 14.04 min Scan# 2033

Delta R.T. 0.01 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

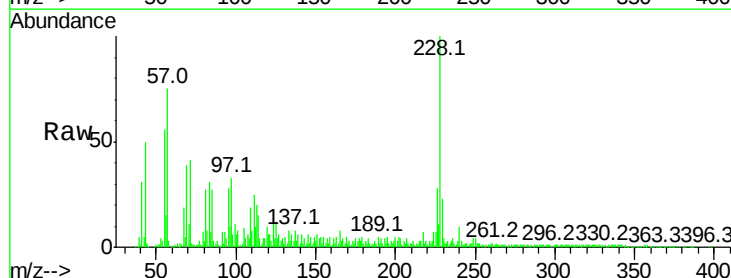
Tgt Ion:228 Resp: 313920

Ion Ratio Lower Upper

228 100

226 28.2 22.6 33.8

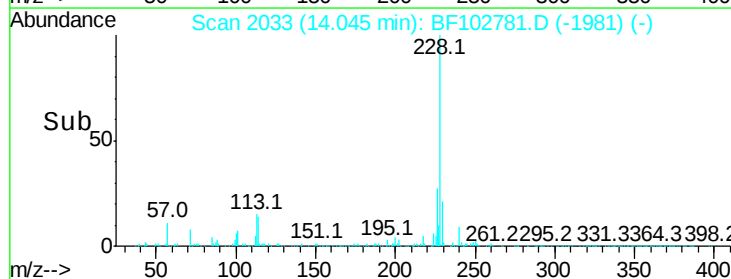
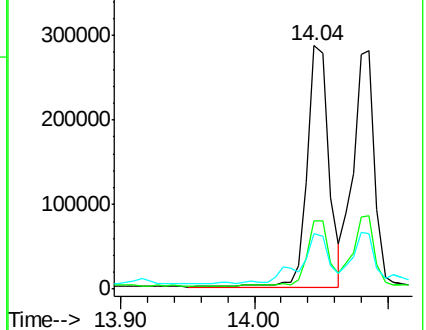
229 22.8 15.8 23.6

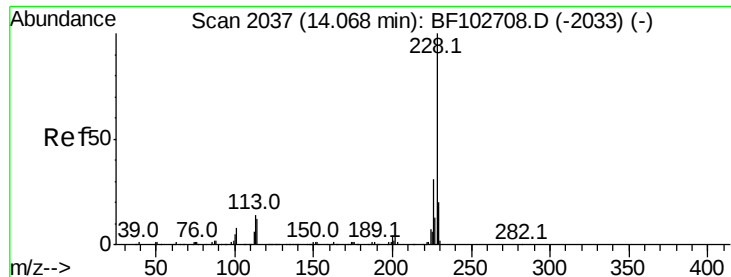


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 18.718 ng

RT: 14.09 min Scan# 2040

Delta R.T. 0.01 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

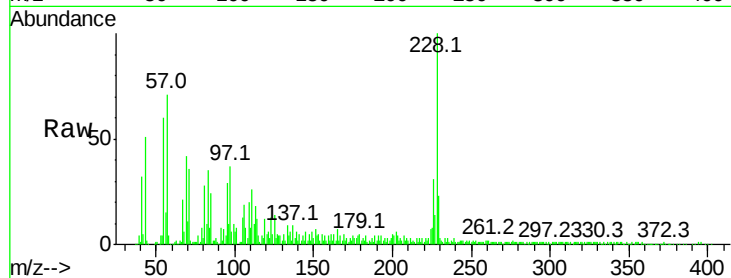
Tot Ion:228 Resp: 313732

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 30.9  | 25.0  | 37.6  |
| 229 | 23.3  | 16.2  | 24.4  |

228 100

226 30.9 25.0 37.6

229 23.3 16.2 24.4

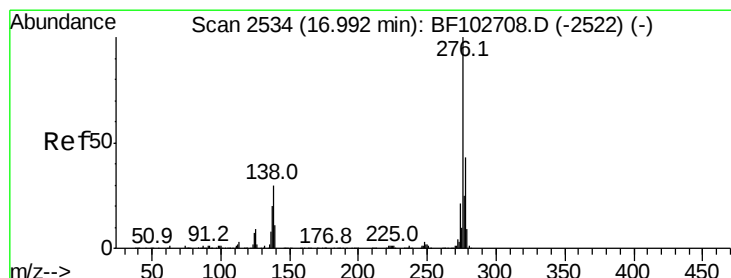
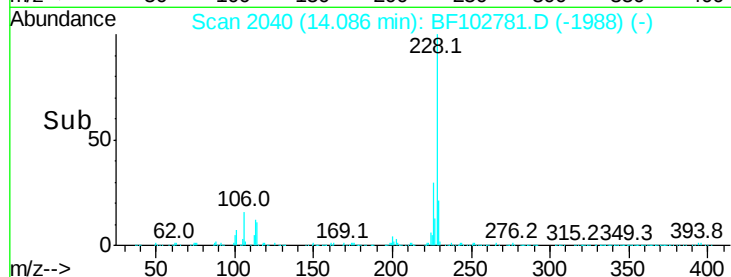
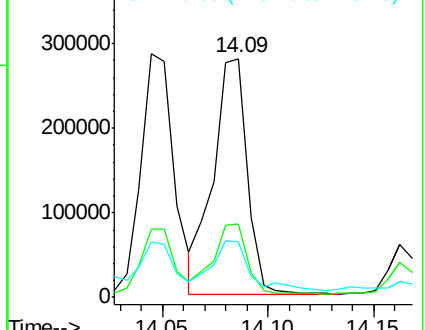


Abundance

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: 15.036 ng

RT: 17.04 min Scan# 2542

Delta R.T. 0.02 min

Lab File: BF102781.D

Acq: 6 Feb 2018 13:57

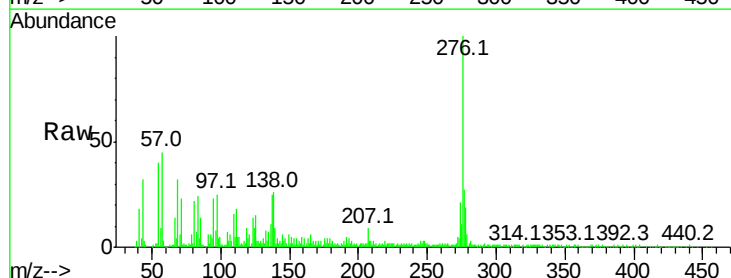
Tgt Ion:276 Resp: 209022

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 26.3  | 25.0  | 37.6  |
| 277 | 24.3  | 20.1  | 30.1  |

276 100

138 26.3 25.0 37.6

277 24.3 20.1 30.1

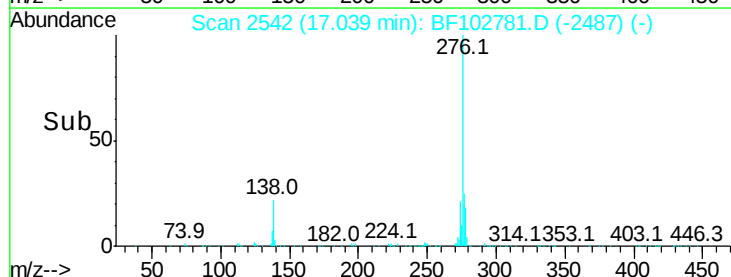
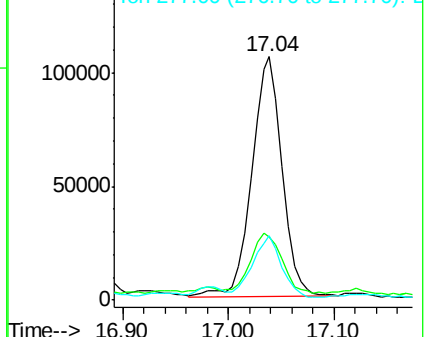


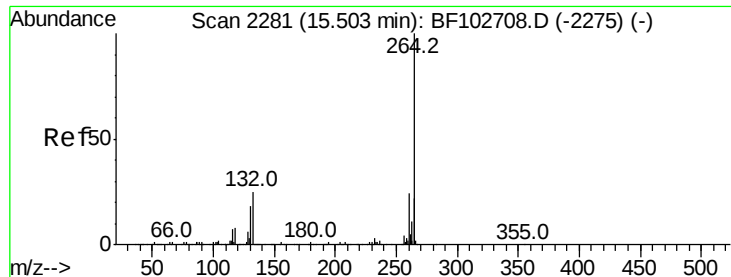
Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

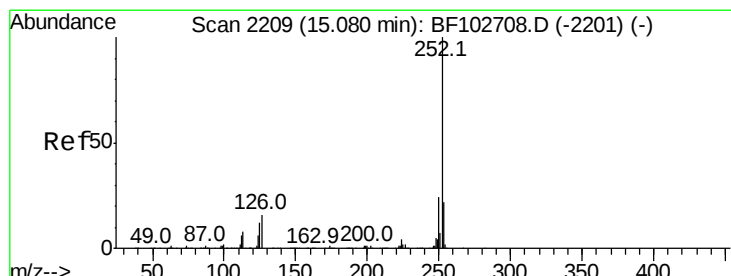
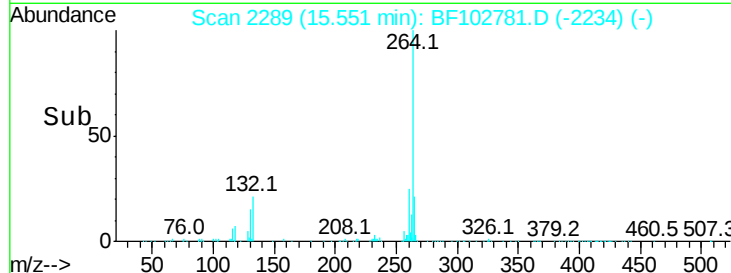
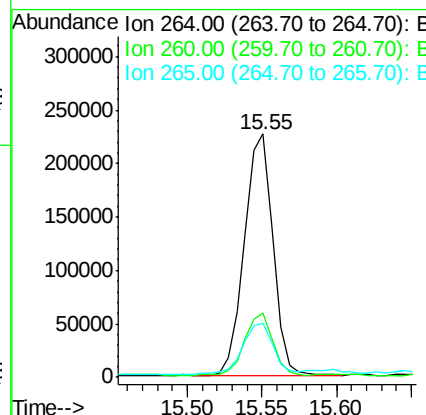
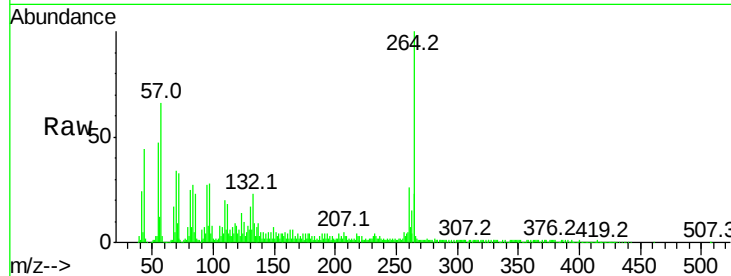
Ion 277.00 (276.70 to 277.70): E





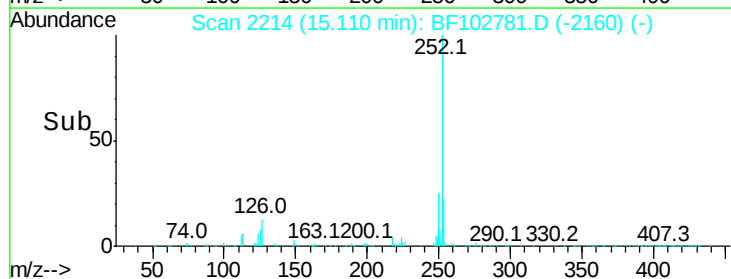
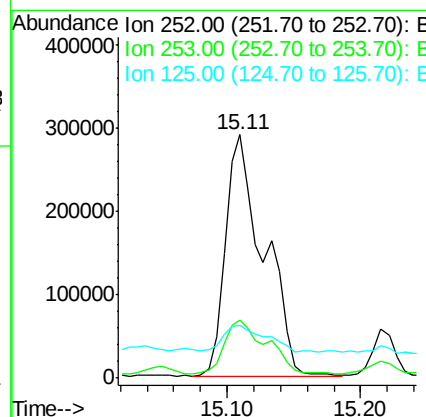
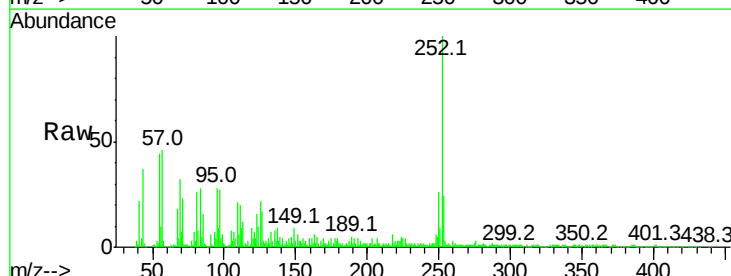
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.55 min Scan# 2289  
Delta R.T. 0.02 min  
Lab File: BF102781.D  
Acq: 6 Feb 2018 13:57

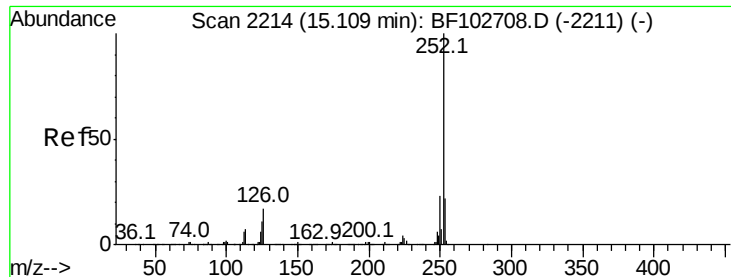
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 26.3  | 19.2  | 28.8  |
| 265     | 22.5  | 17.5  | 26.3  |



#87  
Benzo(b)fluoranthene  
Concen: 29.648 ng  
RT: 15.11 min Scan# 2214  
Delta R.T. 0.02 min  
Lab File: BF102781.D  
Acq: 6 Feb 2018 13:57

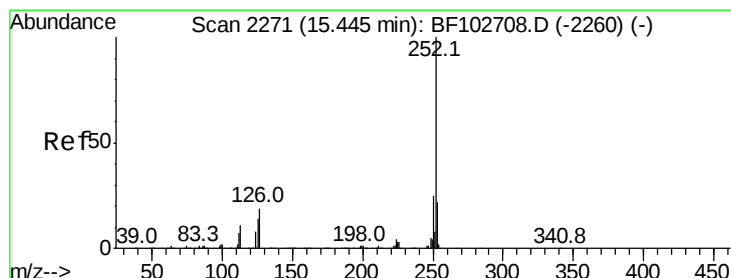
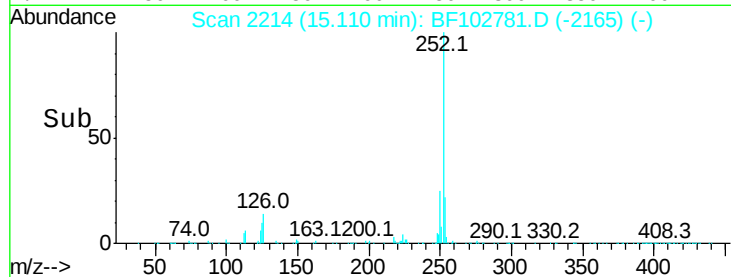
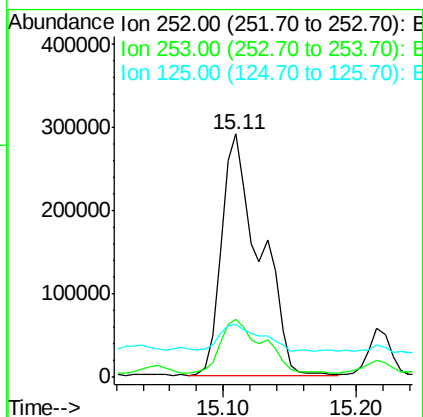
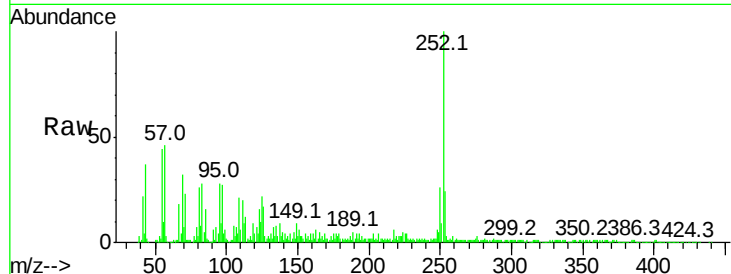
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.9  | 17.0  | 25.6  |
| 125     | 21.9  | 9.0   | 13.6  |





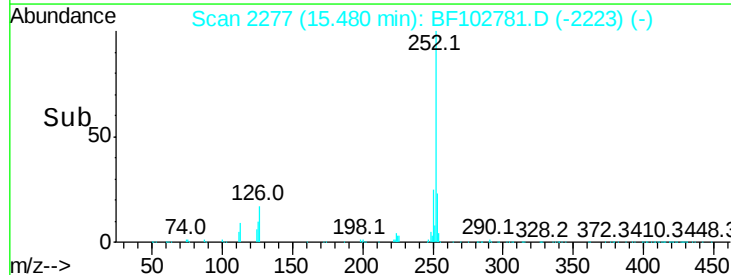
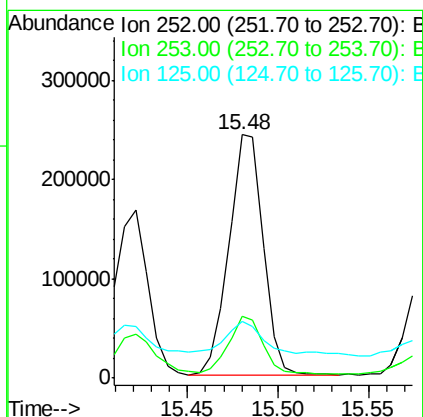
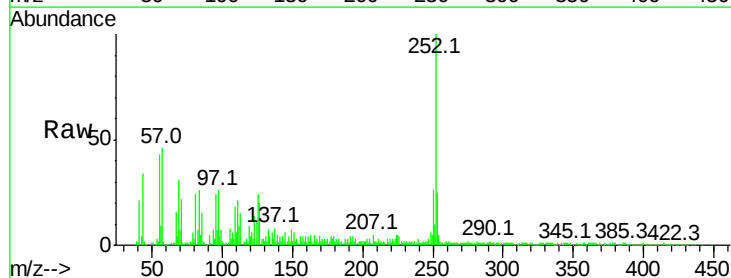
#88  
Benzo(k)fluoranthene  
Concen: 31.029 ng  
RT: 15.11 min Scan# 2214  
Delta R.T. -0.01 min  
Lab File: BF102781.D  
Acq: 6 Feb 2018 13:57

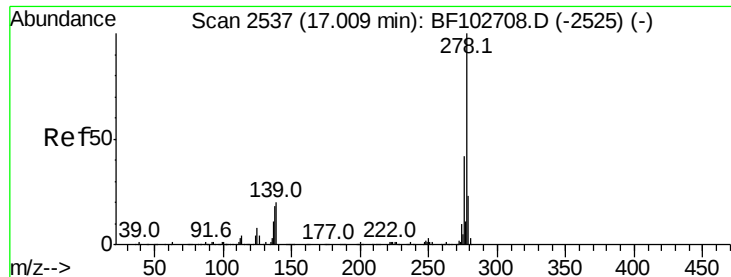
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.9  | 17.9  | 26.9  |
| 125     | 21.9  | 10.2  | 15.2  |



#89  
Benzo(a)pyrene  
Concen: 18.263 ng  
RT: 15.48 min Scan# 2277  
Delta R.T. 0.02 min  
Lab File: BF102781.D  
Acq: 6 Feb 2018 13:57

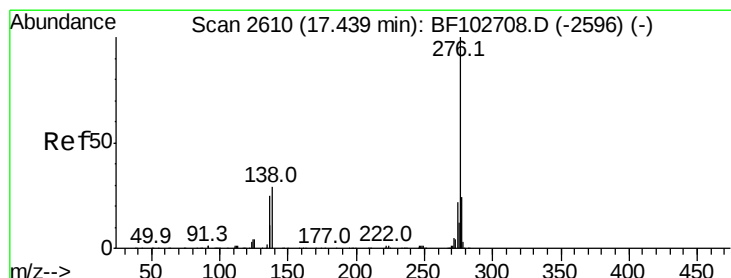
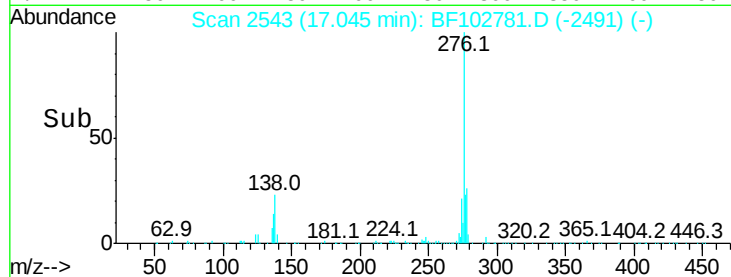
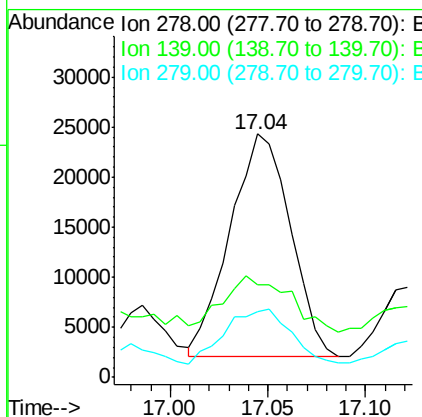
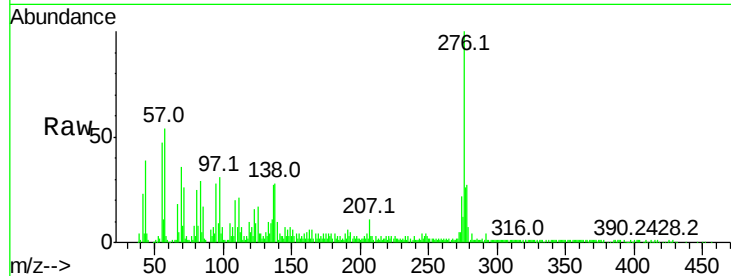
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.2  | 17.1  | 25.7  |
| 125     | 23.5  | 9.8   | 14.6  |





#90  
Dibenzo(a,h)anthracene  
Concen: 3.352 ng  
RT: 17.04 min Scan# 2543  
Delta R.T. 0.01 min  
Lab File: BF102781.D  
Acq: 6 Feb 2018 13:57

Tot Ion:278 Resp: 47680  
Ion Ratio Lower Upper  
278 100  
139 38.0 15.9 23.9#  
279 27.0 19.0 28.4



#91  
Benzo(g,h,i)perylene  
Concen: 13.714 ng  
RT: 17.49 min Scan# 2619  
Delta R.T. 0.02 min  
Lab File: BF102781.D  
Acq: 6 Feb 2018 13:57

Tgt Ion:276 Resp: 190944  
Ion Ratio Lower Upper  
276 100  
277 24.3 17.9 26.9  
138 29.3 21.8 32.8

