

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042718\  
 Data File : BF104920.D  
 Acq On : 28 Apr 2018 9:39  
 Operator : JU/SJ  
 Sample : J2565-05  
 Misc :  
 ALS Vial : 40 Sample Multiplier: 1

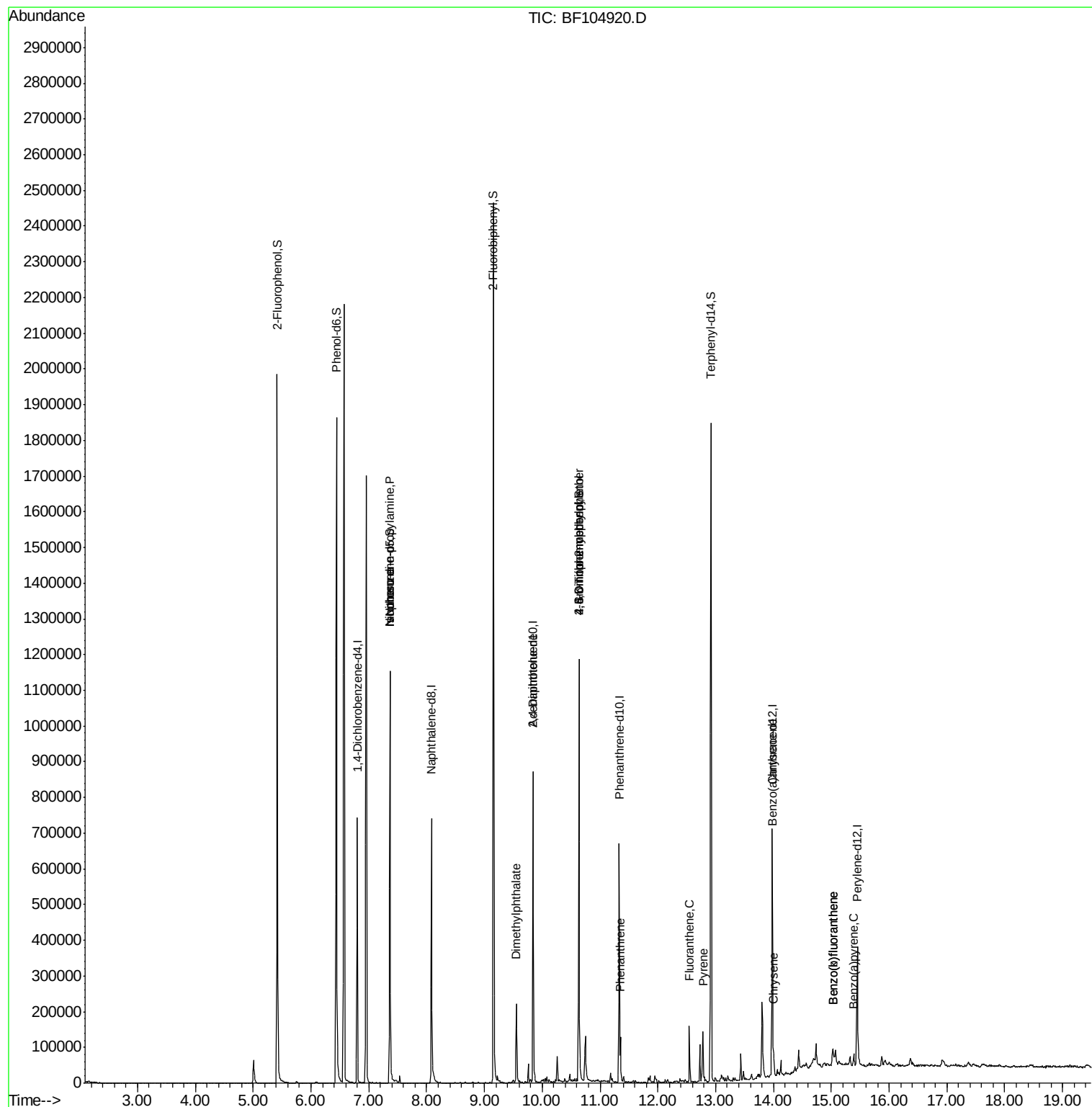
Quant Time: Apr 30 02:26:33 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 27 17:16:11 2018  
 Response via : Initial Calibration

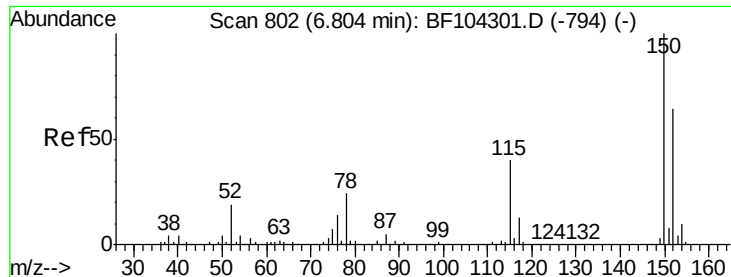
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|-----------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 6.80  | 152  | 101554   | 20.00     | ng    | 0.00        |
| 21) Naphthalene-d8             | 8.08  | 136  | 402795   | 20.00     | ng    | 0.00        |
| 38) Acenaphthene-d10           | 9.84  | 164  | 165548   | 20.00     | ng    | 0.00        |
| 63) Phenanthrene-d10           | 11.33 | 188  | 263250   | 20.00     | ng    | 0.00        |
| 75) Chrysene-d12               | 13.98 | 240  | 218673   | 20.00     | ng    | 0.00        |
| 86) Perylene-d12               | 15.45 | 264  | 148482   | 20.00     | ng    | 0.00        |
| System Monitoring Compounds    |       |      |          |           |       |             |
| 5) 2-Fluorophenol              | 5.42  | 112  | 627213   | 94.44     | ng    | 0.00        |
| 7) Phenol-d6                   | 6.44  | 99   | 756251   | 92.67     | ng    | 0.00        |
| 23) Nitrobenzene-d5            | 7.37  | 82   | 444157   | 72.00     | ng    | 0.00        |
| 41) 2,4,6-Tribromophenol       | 10.63 | 330  | 154187   | 89.79     | ng    | 0.00        |
| 44) 2-Fluorobiphenyl           | 9.16  | 172  | 759475   | 72.47     | ng    | 0.00        |
| 78) Terphenyl-d14              | 12.92 | 244  | 629817   | 65.66     | ng    | 0.00        |
| Target Compounds               |       |      |          |           |       |             |
| 19) n-Nitroso-di-n-propylamine | 7.36  | 70   | 56756    | 10.643    | ng    | Qvalue # 73 |
| 25) Isophorone                 | 7.37  | 82   | 444154   | 34.050    | ng    | # 64        |
| 49) Dimethylphthalate          | 9.55  | 163  | 95418    | 7.309     | ng    | 99          |
| 56) 2,4-Dinitrotoluene         | 9.84  | 165  | 20566    | 6.491     | ng    | # 24        |
| 64) 4,6-Dinitro-2-methylphenol | 10.63 | 198  | 110      | 7.420     | ng    | # 1         |
| 66) 4-Bromophenyl-phenylether  | 10.63 | 248  | 9693     | 3.462     | ng    | # 1         |
| 70) Phenanthrene               | 11.35 | 178  | 43160    | 2.944     | ng    | 98          |
| 74) Fluoranthene               | 12.55 | 202  | 65485    | 4.275     | ng    | 98          |
| 76) Benzidine                  | 12.92 | 184  | 8067     | Below Cal |       | 96          |
| 77) Pyrene                     | 12.78 | 202  | 60041    | 3.704     | ng    | 98          |
| 80) Benzo(a)anthracene         | 13.97 | 228  | 28688    | 2.196     | ng    | 97          |
| 82) Chrysene                   | 14.00 | 228  | 26874    | 2.003     | ng    | 98          |
| 87) Benzo(b)fluoranthene       | 15.02 | 252  | 35741    | 3.811     | ng    | 94          |
| 88) Benzo(k)fluoranthene       | 15.02 | 252  | 35741    | 4.037     | ng    | 97          |
| 89) Benzo(a)pyrene             | 15.39 | 252  | 17259    | 2.057     | ng    | # 94        |

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

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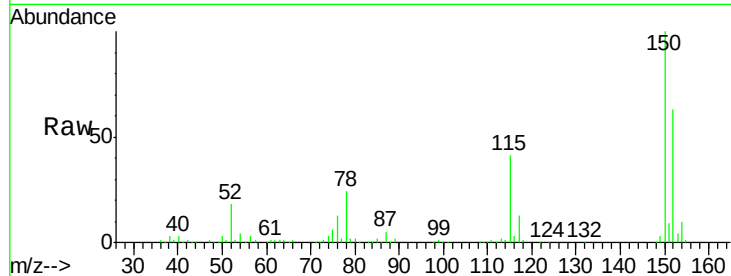




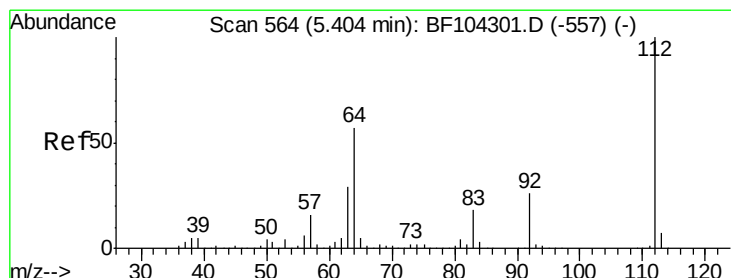
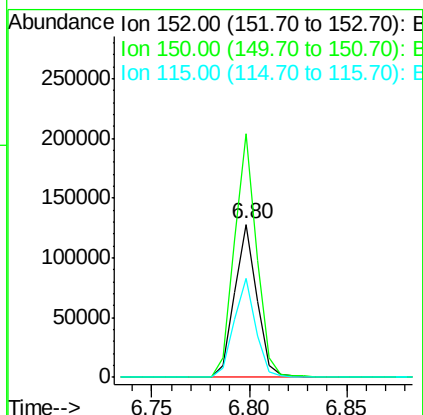
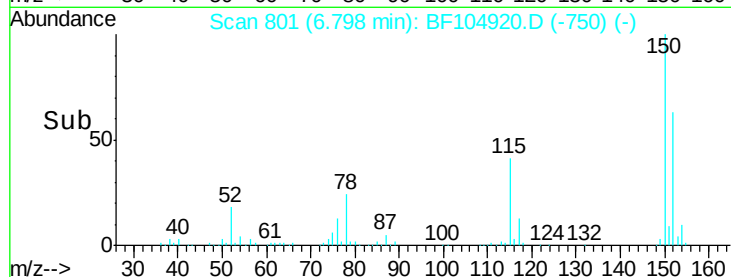
#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.80 min Scan# 801  
Delta R.T. 0.00 min  
Lab File: BF104920.D  
Acq: 28 Apr 2018 9:39

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 159.3 | 124.6 | 186.8 |
| 115     | 64.6  | 50.1  | 75.1  |



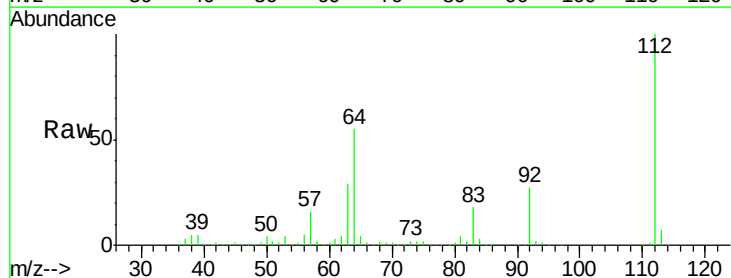
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



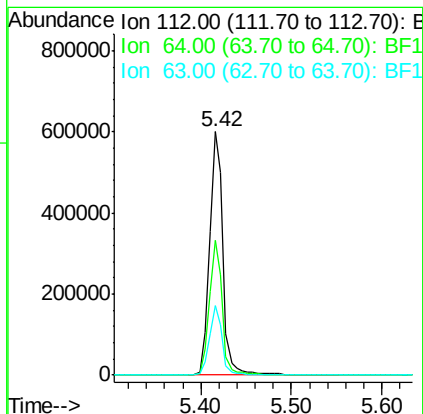
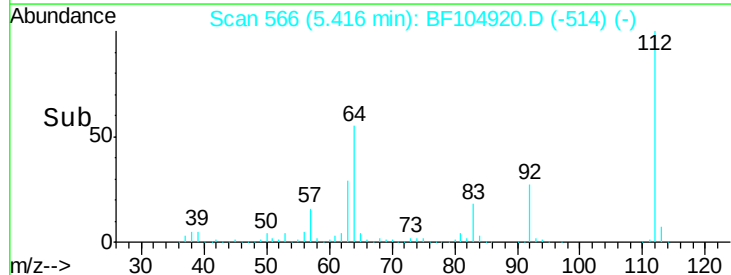
#5

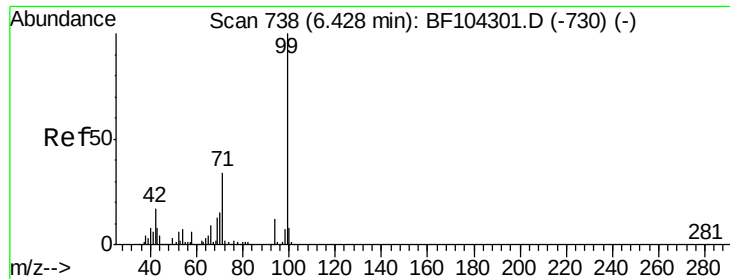
2-Fluorophenol  
Concen: 94.437 ng  
RT: 5.42 min Scan# 566  
Delta R.T. 0.01 min  
Lab File: BF104920.D  
Acq: 28 Apr 2018 9:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 55.3  | 47.9  | 71.9  |
| 63      | 28.5  | 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: 92.673 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF104920.D

Acq: 28 Apr 2018 9:39

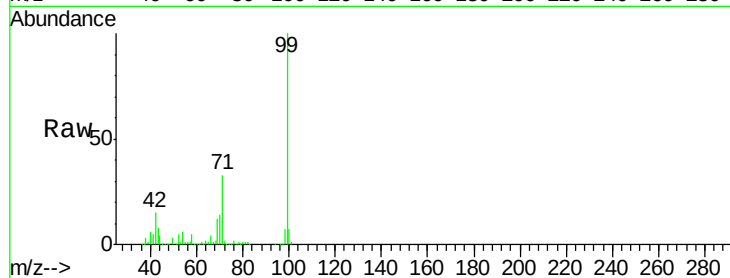
Tot Ion: 99 Resp: 756251

Ion Ratio Lower Upper

99 100

42 15.5 14.5 21.7

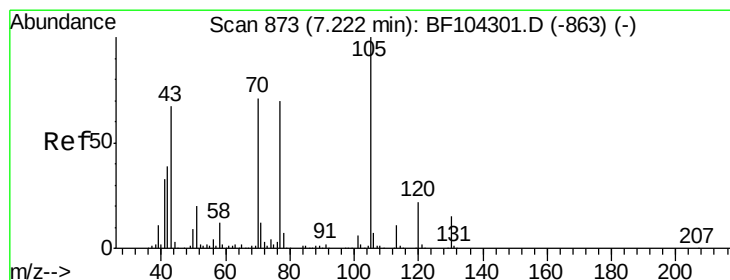
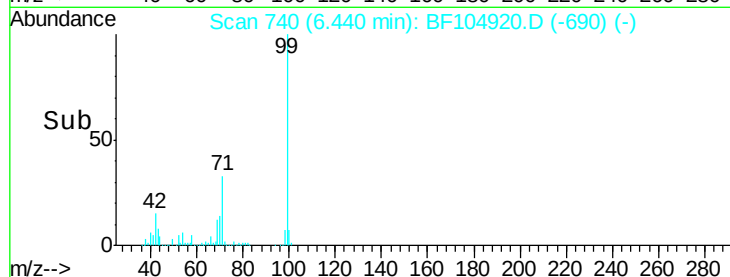
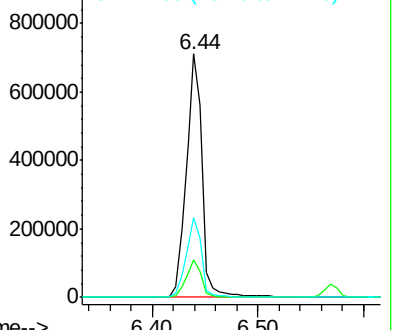
71 32.7 25.4 38.0



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



#19

n-Nitroso-di-n-propylamine

Concen: 10.643 ng

RT: 7.36 min Scan# 897

Delta R.T. 0.15 min

Lab File: BF104920.D

Acq: 28 Apr 2018 9:39

Tgt Ion: 70 Resp: 56756

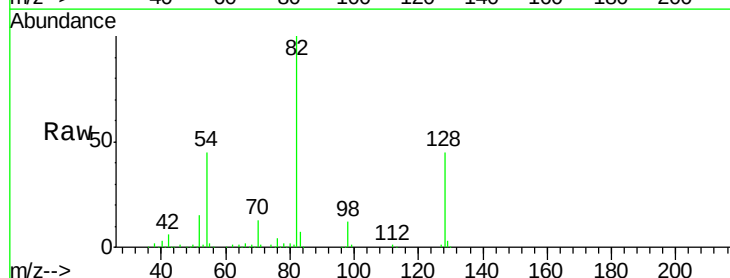
Ion Ratio Lower Upper

70 100

42 41.8 47.5 71.3#

101 0.0 7.4 11.2#

130 3.0 16.6 25.0#

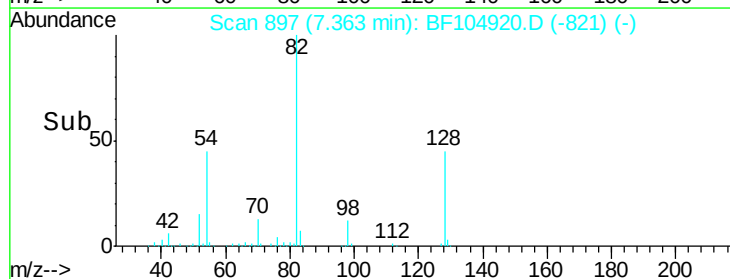
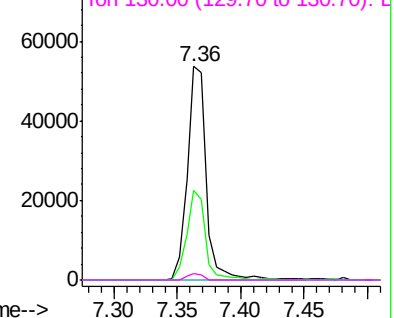


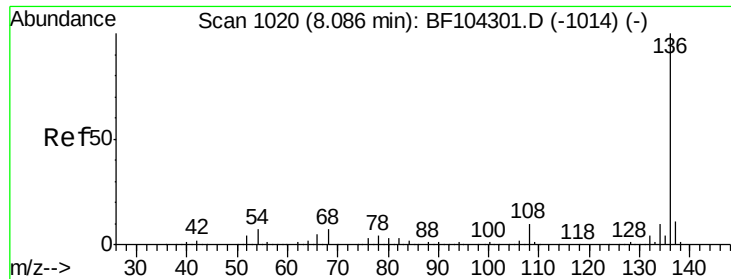
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

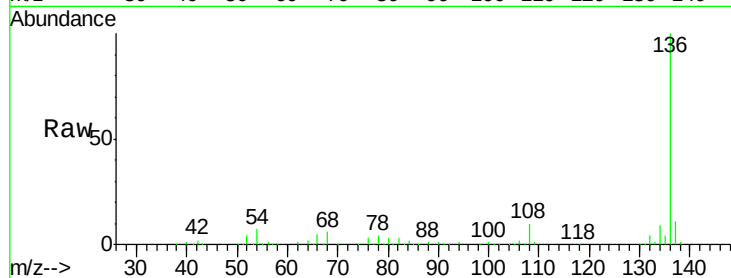
Ion 130.00 (129.70 to 130.70): BF1



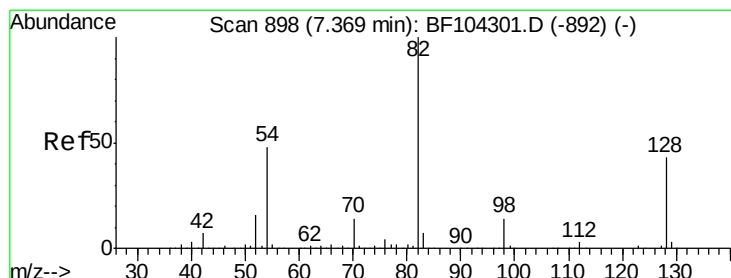
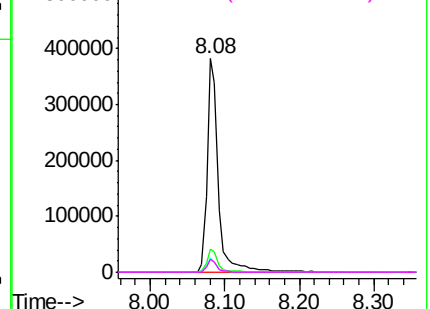
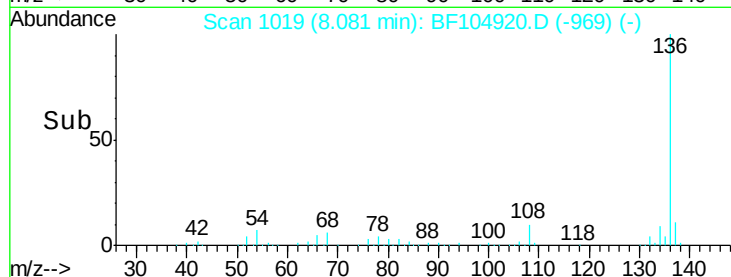


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.08 min Scan# 1019  
Delta R.T. -0.01 min  
Lab File: BF104920.D  
Acq: 28 Apr 2018 9:39

|             |       |        |
|-------------|-------|--------|
| Tot Ion:136 | Resp: | 402795 |
| Ion Ratio   | Lower | Upper  |
| 136 100     |       |        |
| 137 10.5    | 8.9   | 13.3   |
| 54 6.8      | 6.6   | 9.8    |
| 68 5.8      | 5.0   | 7.4    |

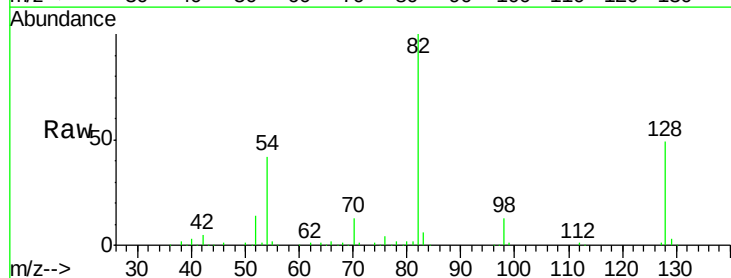


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

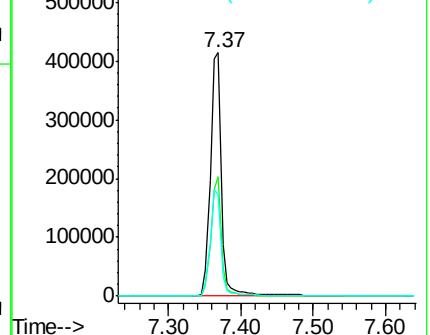
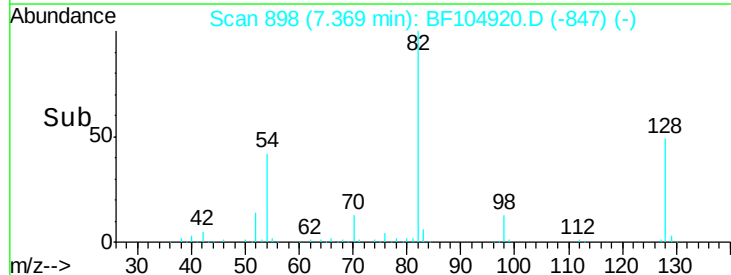


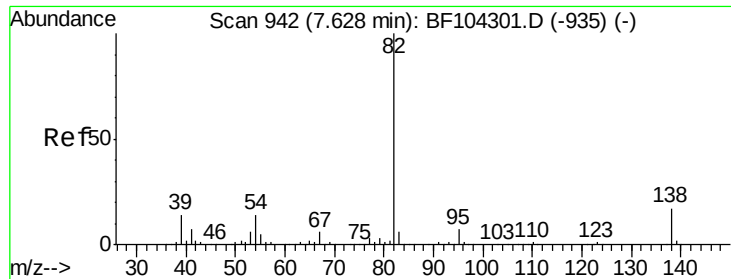
#23  
Nitrobenzene-d5  
Concen: 72.003 ng  
RT: 7.37 min Scan# 898  
Delta R.T. 0.00 min  
Lab File: BF104920.D  
Acq: 28 Apr 2018 9:39

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 82 | Resp: | 444157 |
| Ion | Ratio   | Lower | Upper  |
| 82  | 100     |       |        |
| 128 | 49.3    | 36.1  | 54.1   |
| 54  | 41.6    | 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





#25

Isophorone

Concen: 34.050 ng

RT: 7.37 min Scan# 898

Delta R.T. -0.26 min

Lab File: BF104920.D

Acq: 28 Apr 2018 9:39

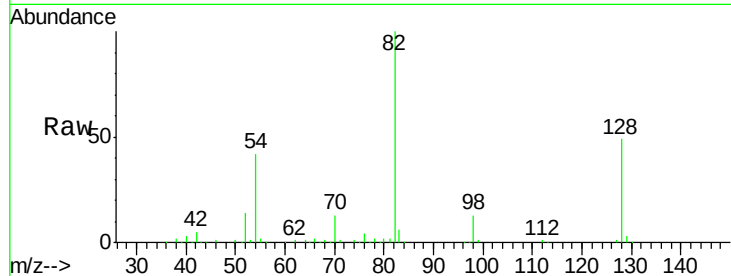
Tot Ion: 82 Resp: 444154

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

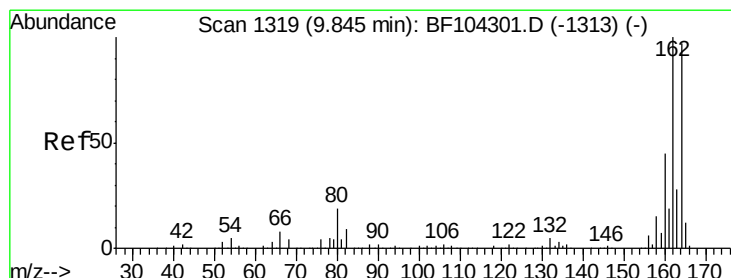
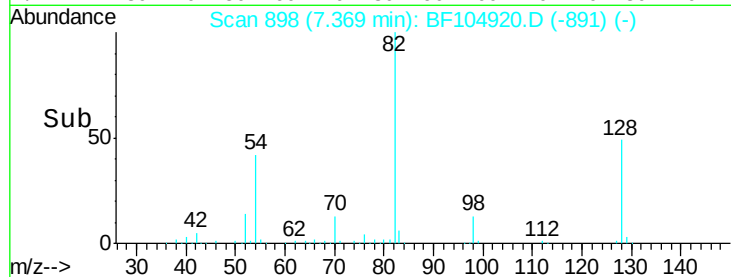
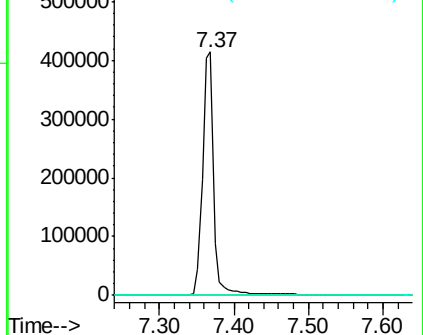
138 0.0 14.9 22.3#



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



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.84 min Scan# 1318

Delta R.T. 0.00 min

Lab File: BF104920.D

Acq: 28 Apr 2018 9:39

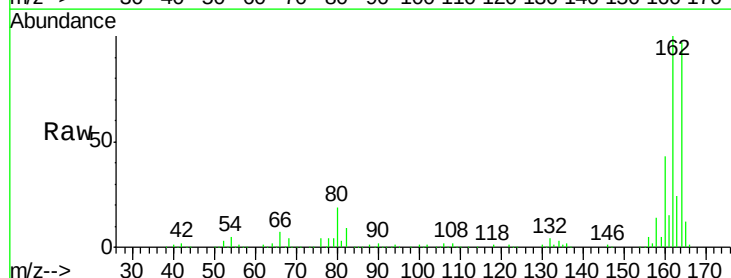
Tgt Ion: 164 Resp: 165548

Ion Ratio Lower Upper

164 100

162 103.5 86.1 129.1

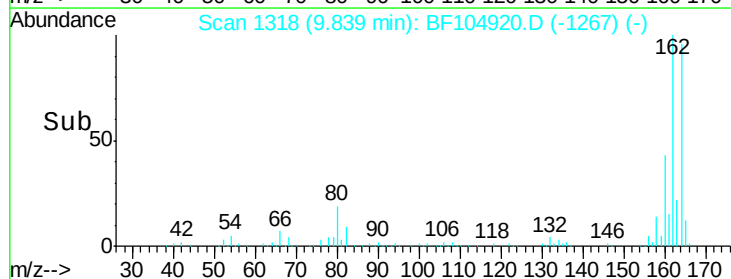
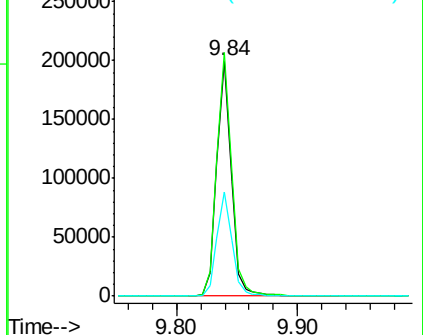
160 44.3 38.3 57.5

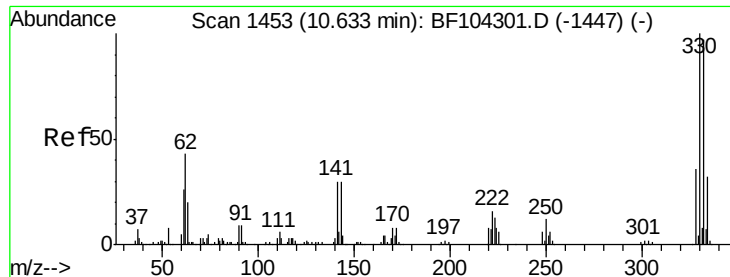


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#41

2,4,6-Tribromophenol

Concen: 89.786 ng

RT: 10.63 min Scan# 1453

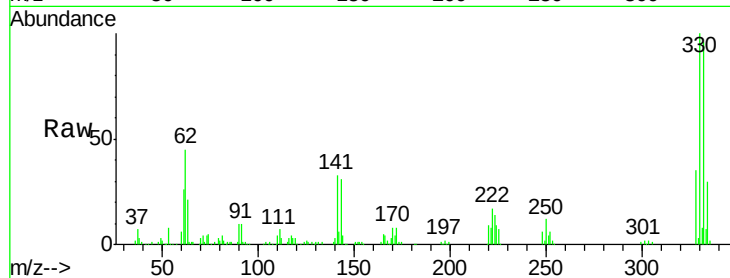
Delta R.T. 0.00 min

Lab File: BF104920.D

Acq: 28 Apr 2018 9:39

Tot Ion:330 Resp: 154187

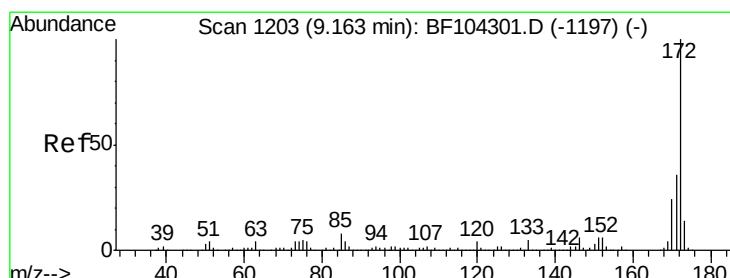
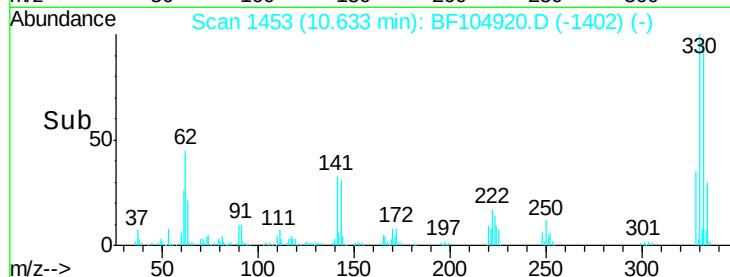
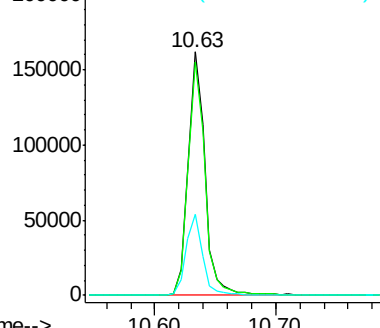
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 330 | 100   |       |       |
| 332 | 97.2  | 77.0  | 115.6 |
| 141 | 32.9  | 29.9  | 44.9  |



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: 72.473 ng

RT: 9.16 min Scan# 1202

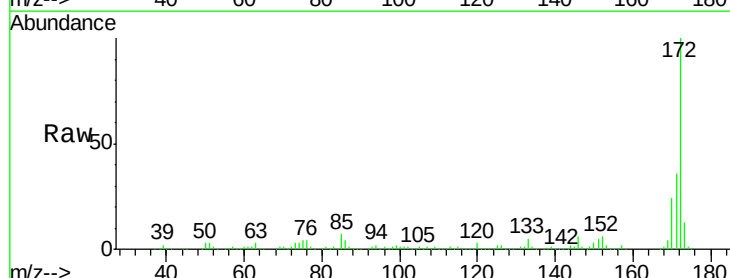
Delta R.T. -0.01 min

Lab File: BF104920.D

Acq: 28 Apr 2018 9:39

Tgt Ion:172 Resp: 759475

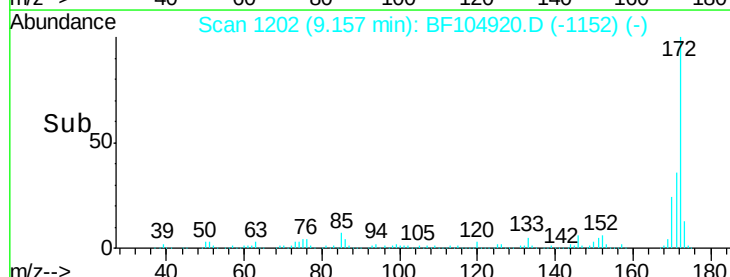
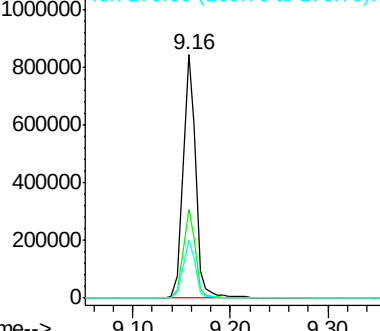
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 36.2  | 29.7  | 44.5  |
| 170 | 23.8  | 19.6  | 29.4  |

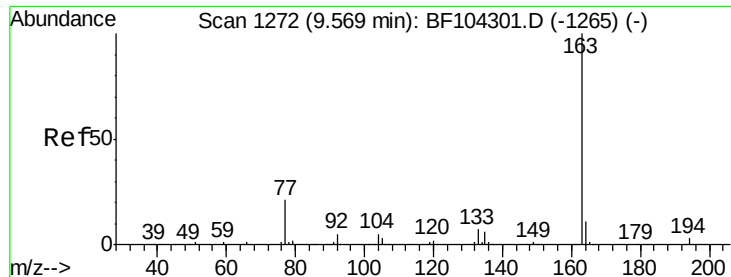


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

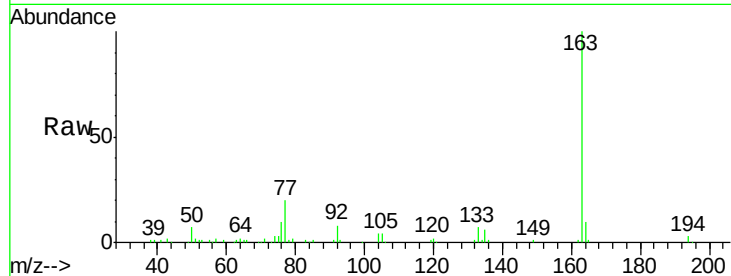
Ion 170.00 (169.70 to 170.70): E



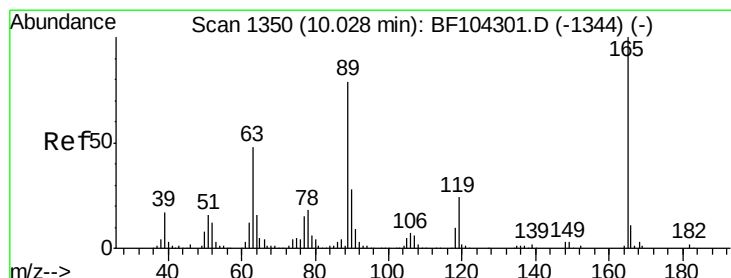
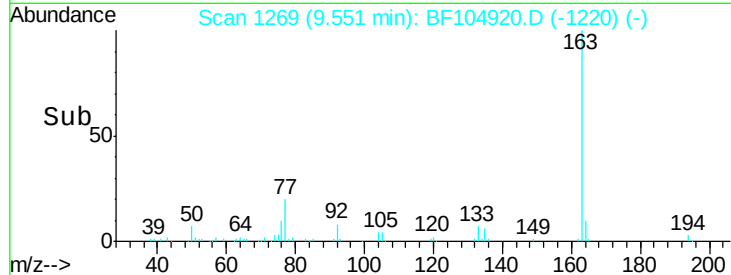
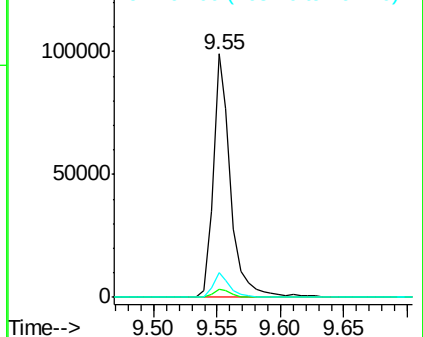


#49  
Dimethylphthalate  
Concen: 7.309 ng  
RT: 9.55 min Scan# 1269  
Delta R.T. -0.01 min  
Lab File: BF104920.D  
Acq: 28 Apr 2018 9:39

|             |       |          |
|-------------|-------|----------|
| Tot Ion:163 | Resp: | 95418    |
| Ion Ratio   | Lower | Upper    |
| 163         | 100   |          |
| 194         | 3.1   | 2.7 4.1  |
| 164         | 10.0  | 8.2 12.2 |

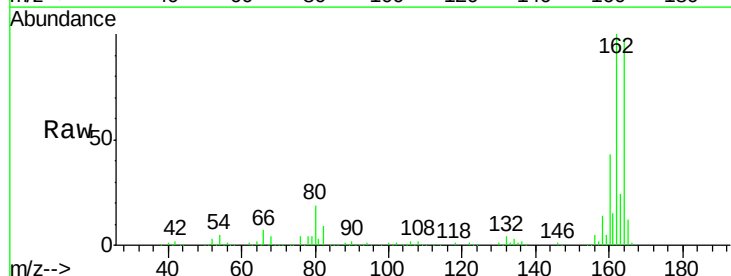


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

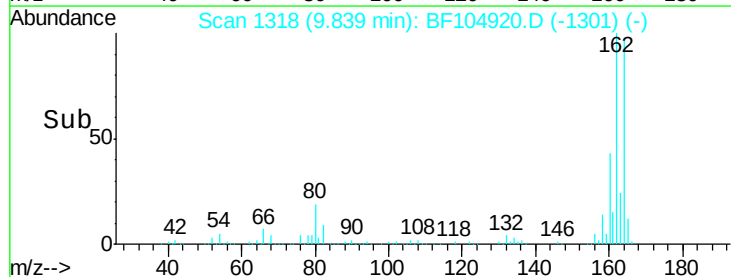
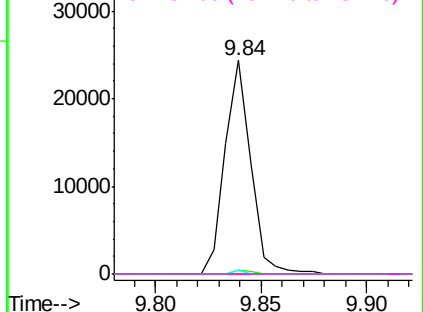


#56  
2,4-Dinitrotoluene  
Concen: 6.491 ng  
RT: 9.84 min Scan# 1318  
Delta R.T. -0.20 min  
Lab File: BF104920.D  
Acq: 28 Apr 2018 9:39

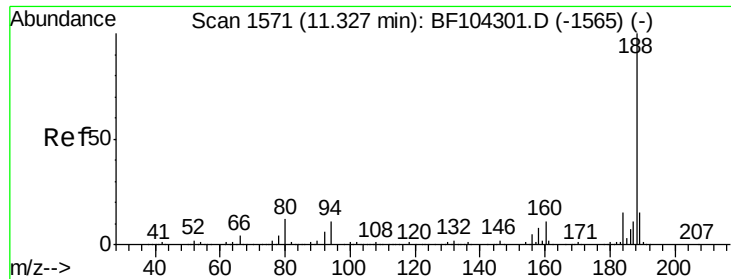
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:165 | Resp: | 20566      |
| Ion Ratio   | Lower | Upper      |
| 165         | 100   |            |
| 63          | 1.5   | 36.4 54.6# |
| 89          | 1.8   | 57.8 86.6# |
| 182         | 0.0   | 1.6 2.4#   |



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

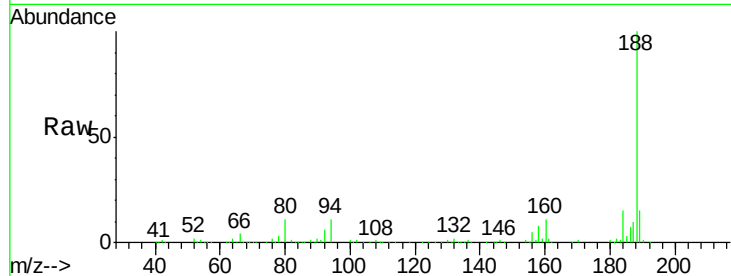






#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.33 min Scan# 1571  
Delta R.T. -0.01 min  
Lab File: BF104920.D  
Acq: 28 Apr 2018 9:39

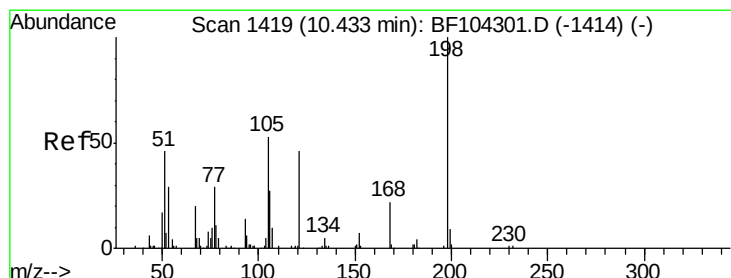
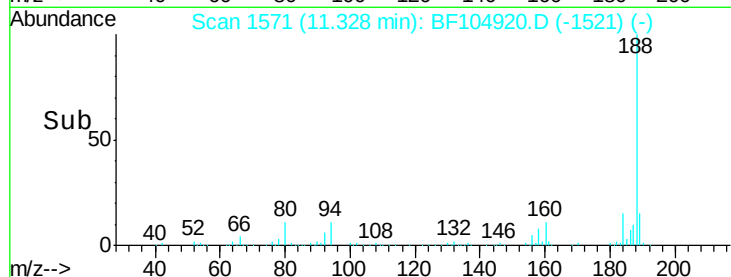
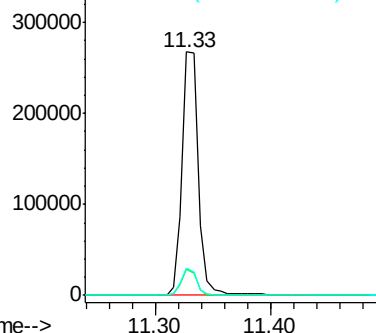
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.6  | 8.5   | 12.7  |
| 80      | 11.4  | 9.2   | 13.8  |



Abundance Ion 188.00 (187.70 to 188.70): E

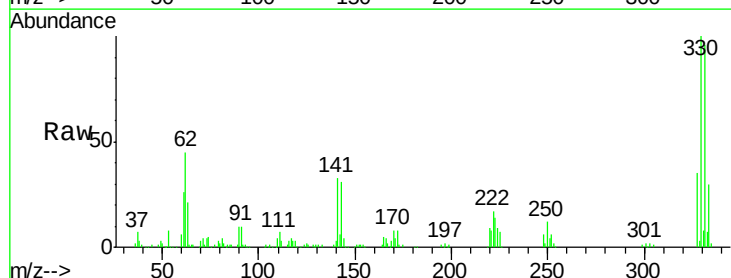
Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#64  
4,6-Dinitro-2-methylphenol  
Concen: 7.420 ng  
RT: 10.63 min Scan# 1453  
Delta R.T. 0.18 min  
Lab File: BF104920.D  
Acq: 28 Apr 2018 9:39

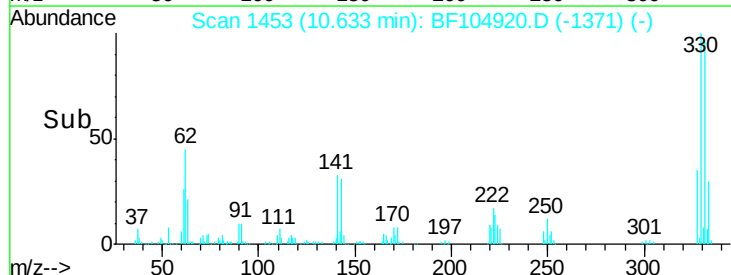
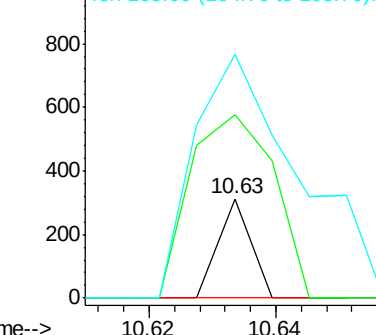
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 198     | 100   |       |       |
| 51      | 184.3 | 37.7  | 77.7# |
| 105     | 244.7 | 36.3  | 76.3# |

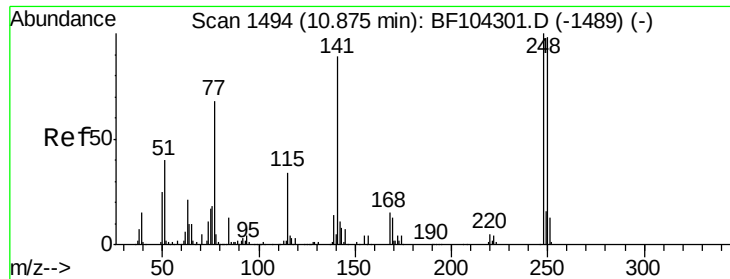


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

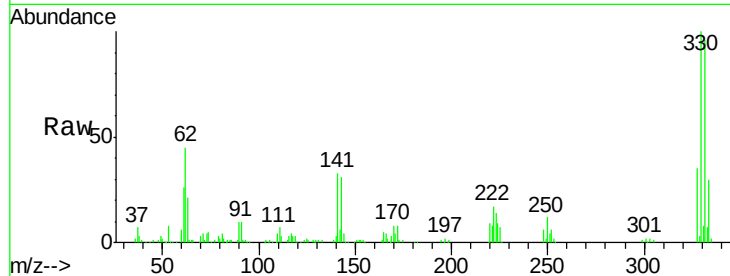
Ion 105.00 (104.70 to 105.70): E



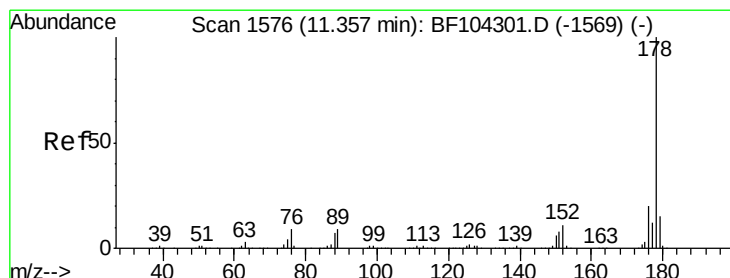
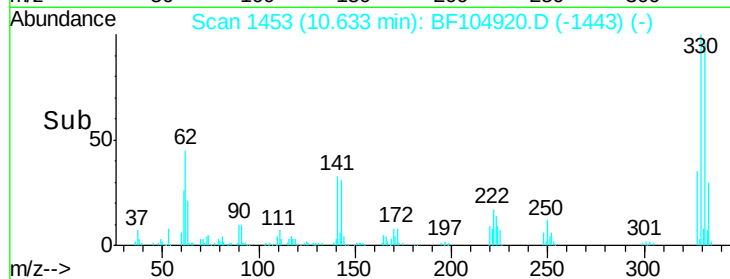
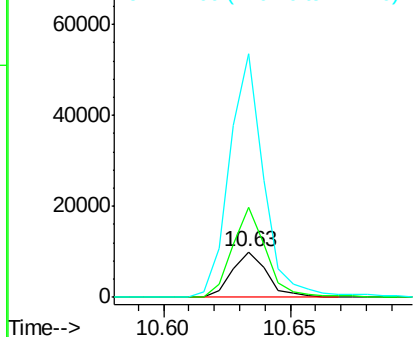


#66  
 4-Bromophenyl-phenylether  
 Concen: 3.462 ng  
 RT: 10.63 min Scan# 1453  
 Delta R.T. -0.24 min  
 Lab File: BF104920.D  
 Acq: 28 Apr 2018 9:39

Tot Ion:248 Resp: 9693  
 Ion Ratio Lower Upper  
 248 100  
 250 197.3 76.9 115.3#  
 141 531.4 74.4 111.6#

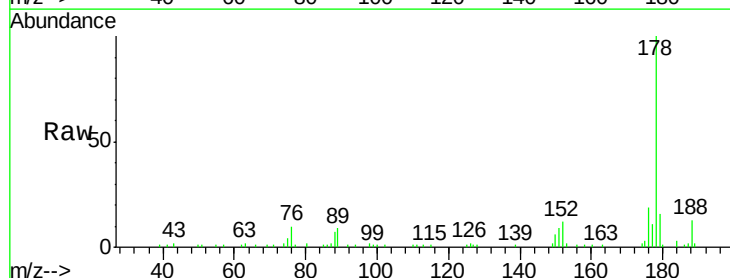


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

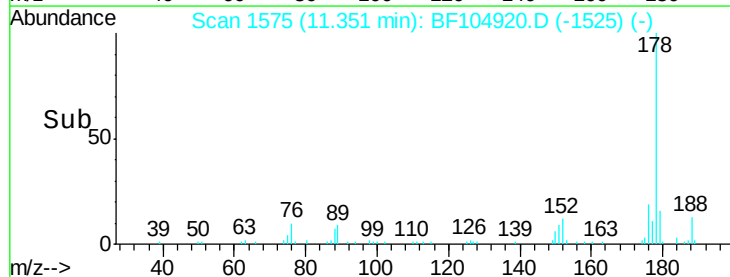
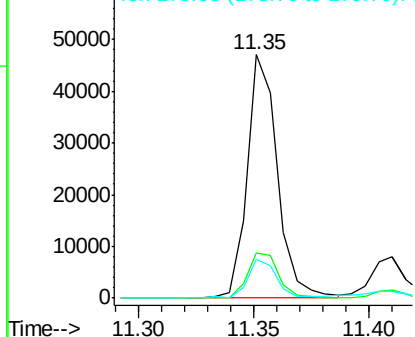


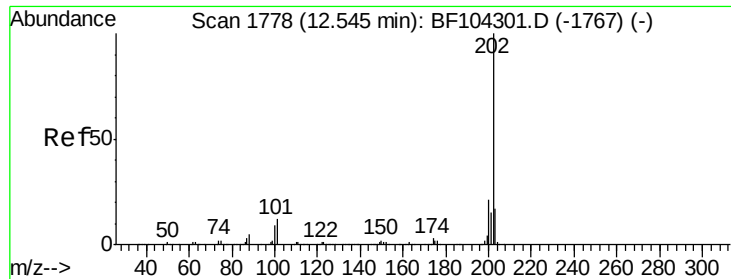
#70  
 Phenanthrene  
 Concen: 2.944 ng  
 RT: 11.35 min Scan# 1575  
 Delta R.T. -0.01 min  
 Lab File: BF104920.D  
 Acq: 28 Apr 2018 9:39

Tgt Ion:178 Resp: 43160  
 Ion Ratio Lower Upper  
 178 100  
 176 18.7 15.8 23.8  
 179 16.0 13.0 19.6



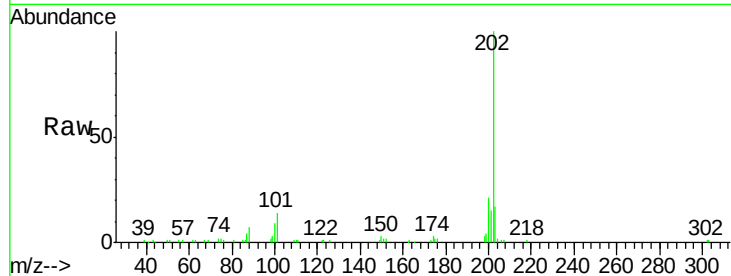
Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E



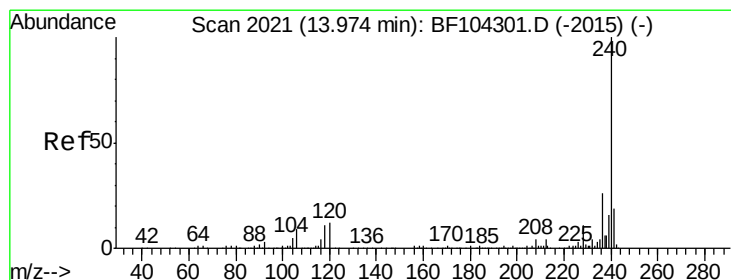
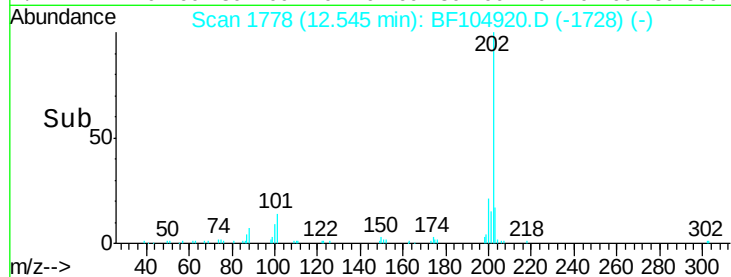
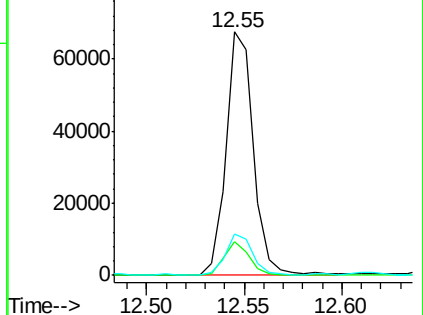


#74  
Fluoranthene  
Concen: 4.275 ng  
RT: 12.55 min Scan# 1778  
Delta R.T. -0.01 min  
Lab File: BF104920.D  
Acq: 28 Apr 2018 9:39

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.9  | 0.0   | 34.1  |
| 203     | 16.9  | 0.0   | 38.1  |

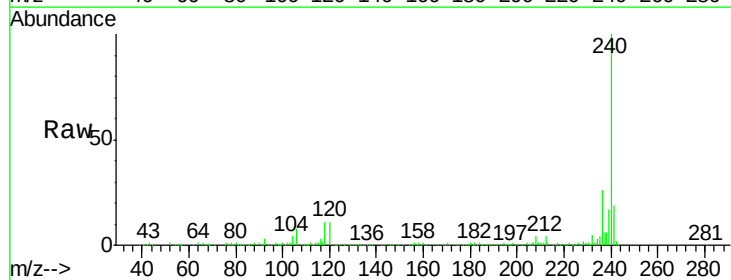


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E

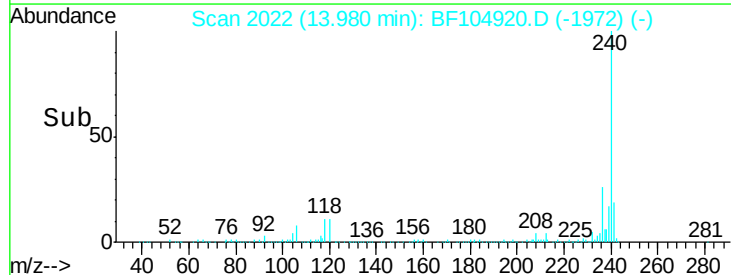
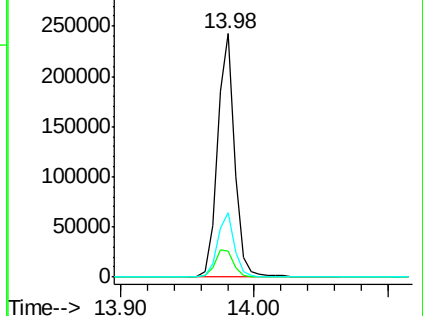


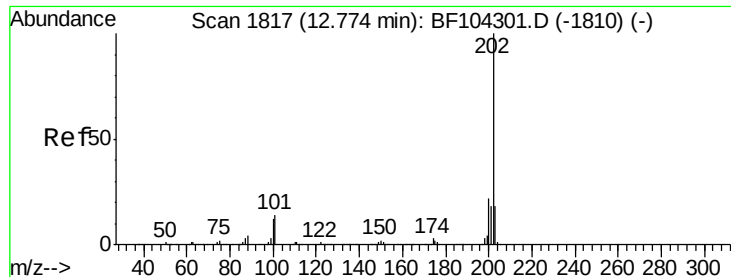
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.98 min Scan# 2022  
Delta R.T. -0.01 min  
Lab File: BF104920.D  
Acq: 28 Apr 2018 9:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 10.8  | 9.5   | 14.3  |
| 236     | 26.3  | 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: 3.704 ng

RT: 12.78 min Scan# 1818

Delta R.T. 0.00 min

Lab File: BF104920.D

Acq: 28 Apr 2018 9:39

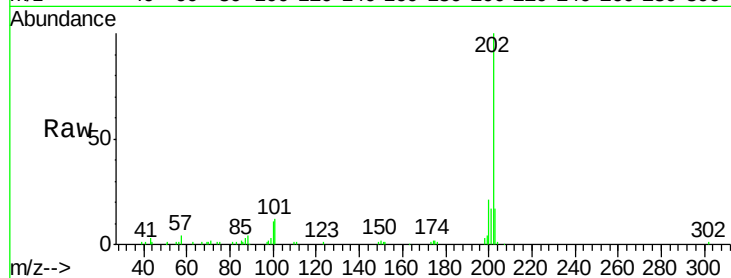
Tot Ion:202 Resp: 60041

Ion Ratio Lower Upper

202 100

200 21.2 17.4 26.2

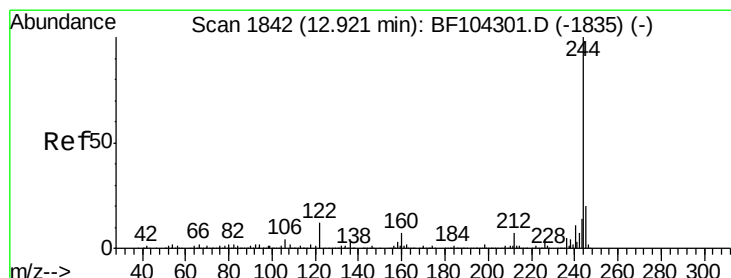
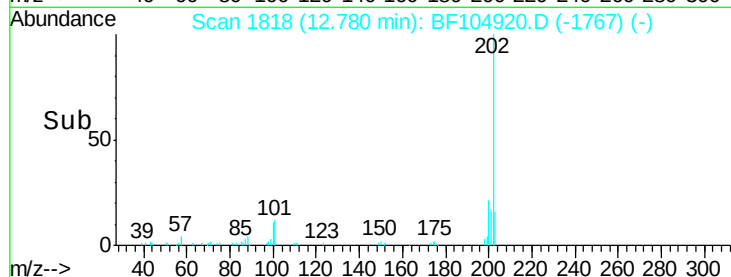
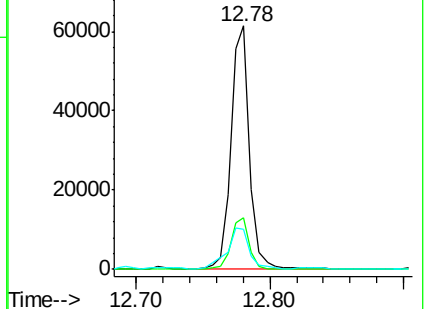
203 16.7 14.3 21.5



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: 65.663 ng

RT: 12.92 min Scan# 1841

Delta R.T. -0.01 min

Lab File: BF104920.D

Acq: 28 Apr 2018 9:39

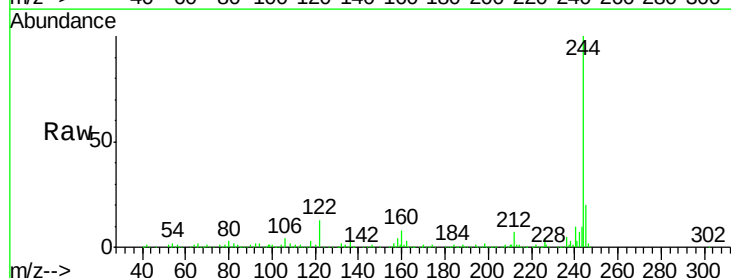
Tgt Ion:244 Resp: 629817

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

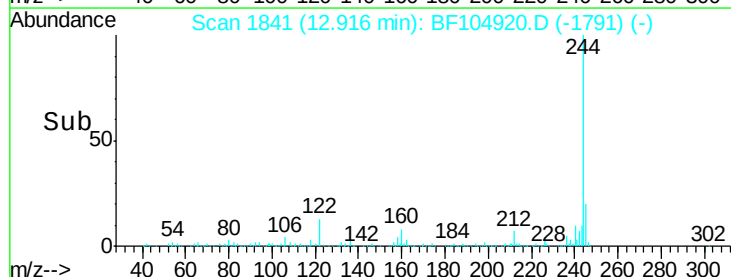
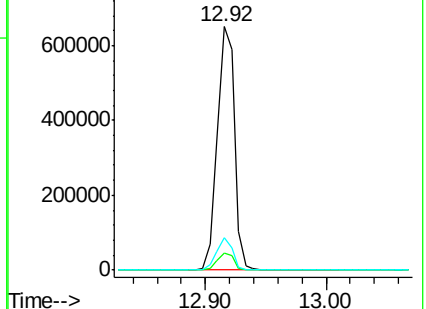
122 13.3 11.0 16.4

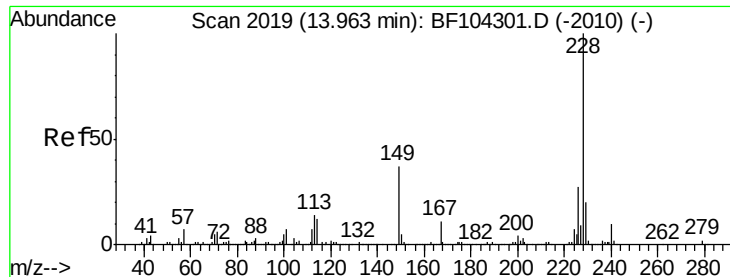


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

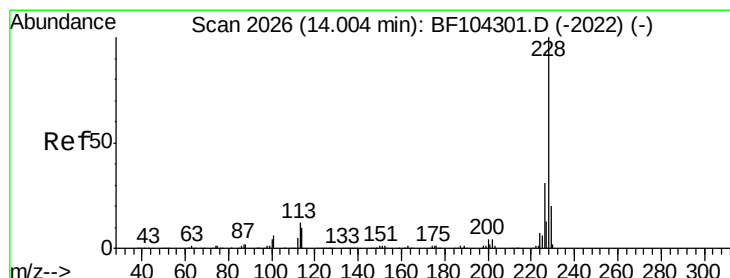
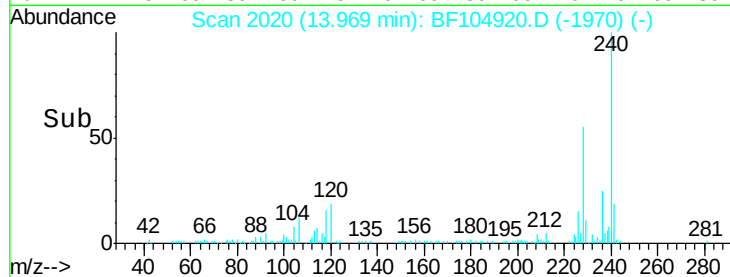
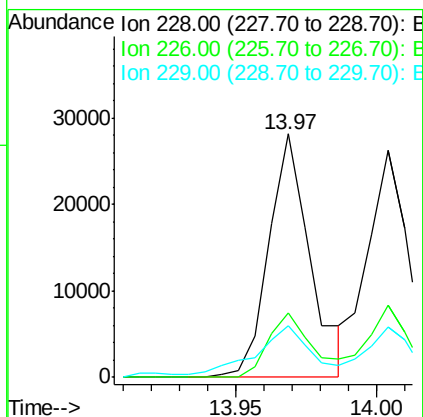
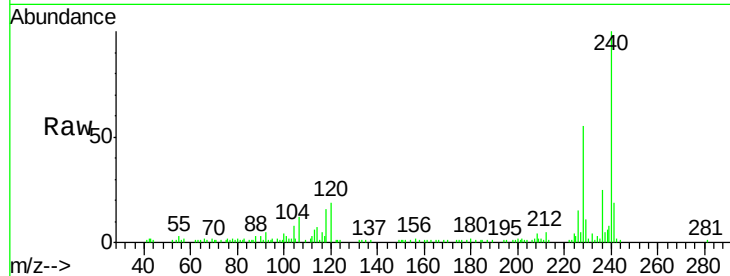
Ion 122.00 (121.70 to 122.70): E





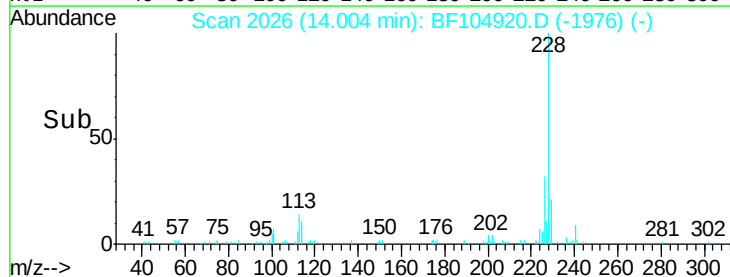
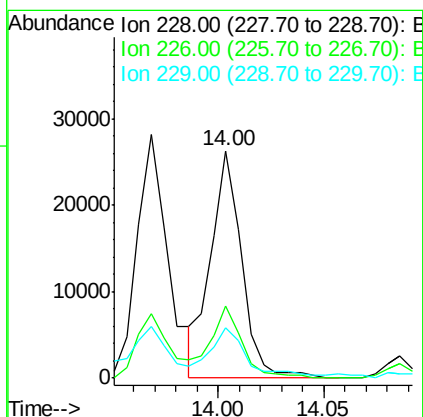
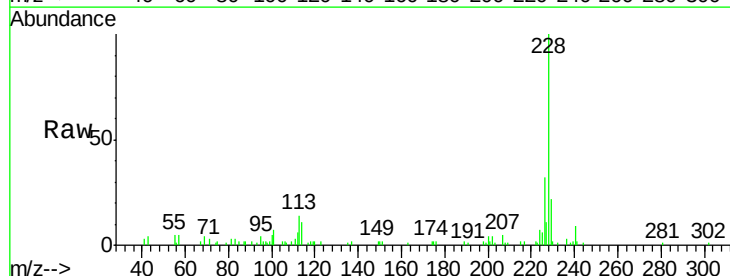
#80  
Benzo(a)anthracene  
Concen: 2.196 ng  
RT: 13.97 min Scan# 2020  
Delta R.T. -0.01 min  
Lab File: BF104920.D  
Acq: 28 Apr 2018 9:39

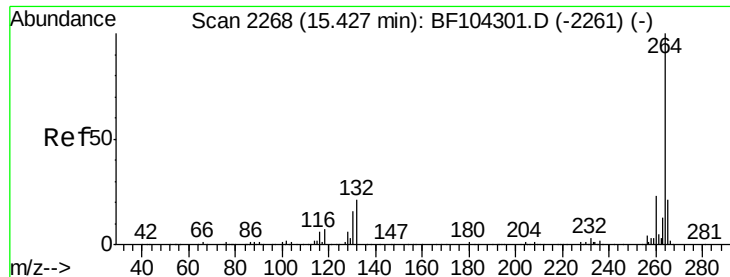
Tot Ion:228 Resp: 28688  
Ion Ratio Lower Upper  
228 100  
226 26.7 22.6 33.8  
229 21.0 15.8 23.6



#82  
Chrysene  
Concen: 2.003 ng  
RT: 14.00 min Scan# 2026  
Delta R.T. -0.01 min  
Lab File: BF104920.D  
Acq: 28 Apr 2018 9:39

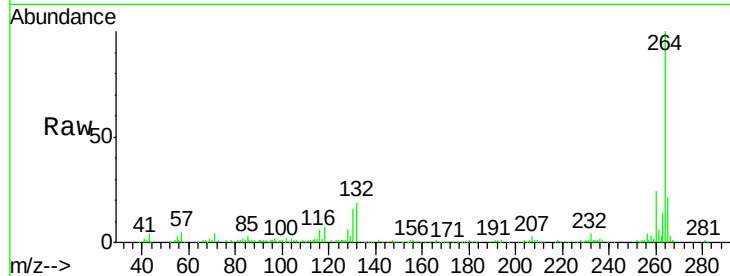
Tgt Ion:228 Resp: 26874  
Ion Ratio Lower Upper  
228 100  
226 31.6 25.0 37.6  
229 22.4 16.2 24.4



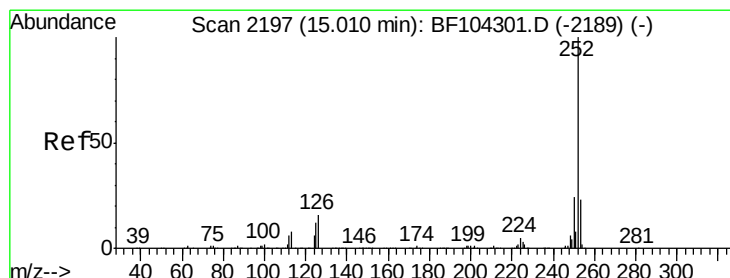
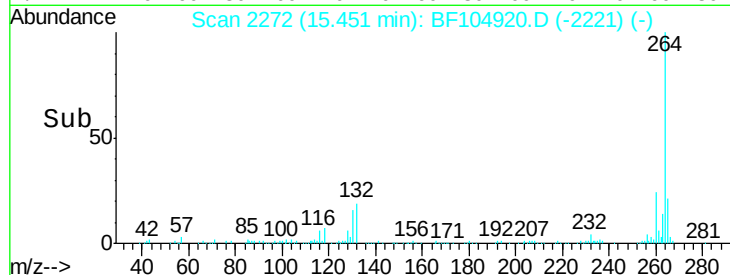
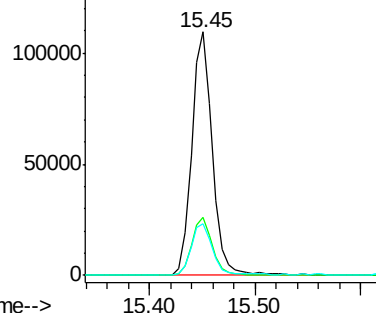


#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.45 min Scan# 2272  
Delta R.T. 0.00 min  
Lab File: BF104920.D  
Acq: 28 Apr 2018 9:39

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.7  | 19.2  | 28.8  |
| 265     | 21.4  | 17.5  | 26.3  |

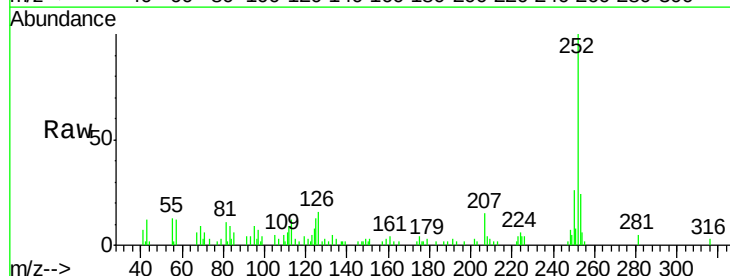


Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

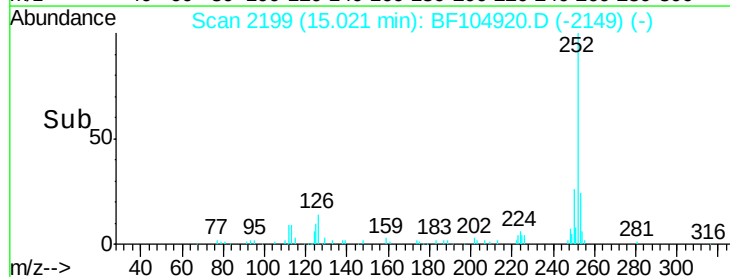
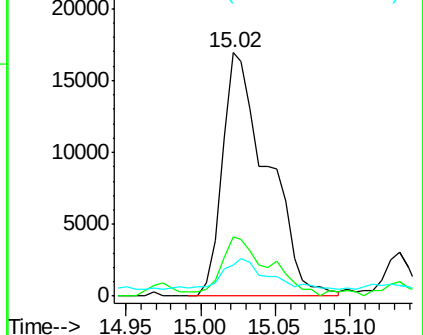


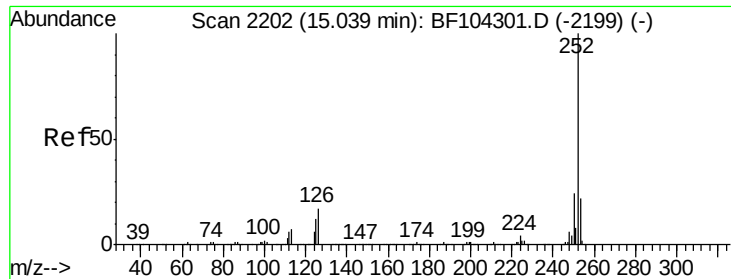
#87  
Benzo(b)fluoranthene  
Concen: 3.811 ng  
RT: 15.02 min Scan# 2199  
Delta R.T. -0.01 min  
Lab File: BF104920.D  
Acq: 28 Apr 2018 9:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.4  | 17.0  | 25.6  |
| 125     | 12.8  | 9.0   | 13.6  |



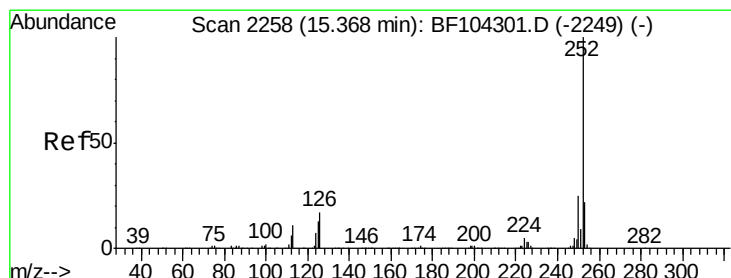
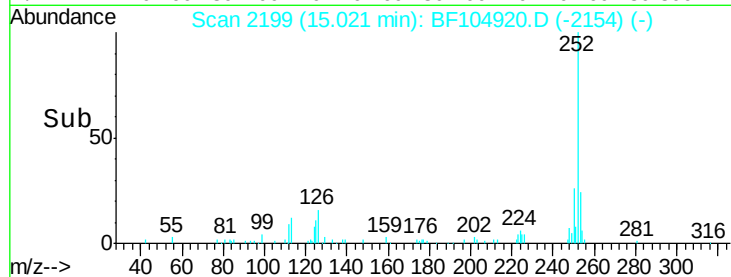
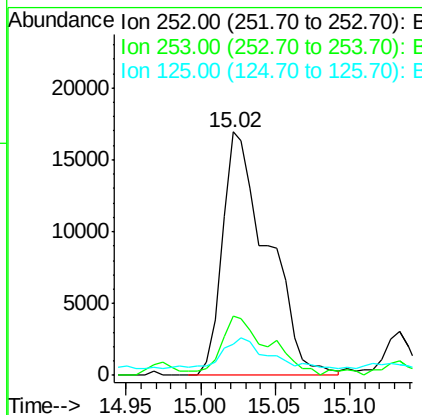
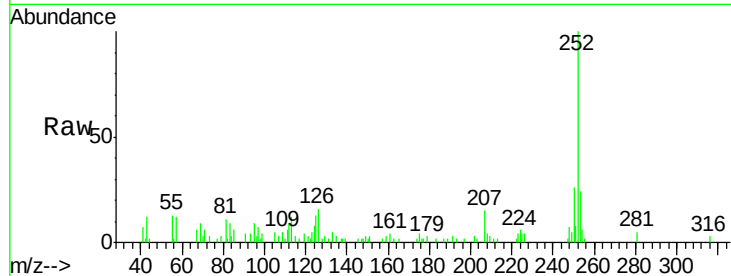
Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





#88  
Benzo(k)fluoranthene  
Concen: 4.037 ng  
RT: 15.02 min Scan# 2199  
Delta R.T. -0.04 min  
Lab File: BF104920.D  
Acq: 28 Apr 2018 9:39

Tot Ion:252 Resp: 35741  
Ion Ratio Lower Upper  
252 100  
253 24.4 17.9 26.9  
125 12.8 10.2 15.2



#89  
Benzo(a)pyrene  
Concen: 2.057 ng  
RT: 15.39 min Scan# 2261  
Delta R.T. -0.01 min  
Lab File: BF104920.D  
Acq: 28 Apr 2018 9:39

Tgt Ion:252 Resp: 17259  
Ion Ratio Lower Upper  
252 100  
253 23.5 17.1 25.7  
125 15.9 9.8 14.6#

