

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042718\  
 Data File : BF104885.D  
 Acq On : 27 Apr 2018 17:03  
 Operator : JU/SJ  
 Sample : J2589-01  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 27 17:40:13 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  | 104265   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.08  | 136  | 439463   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.84  | 164  | 205104   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.33 | 188  | 383281   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.97 | 240  | 259960   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.44 | 264  | 226032   | 20.00 | ng    | -0.01    |

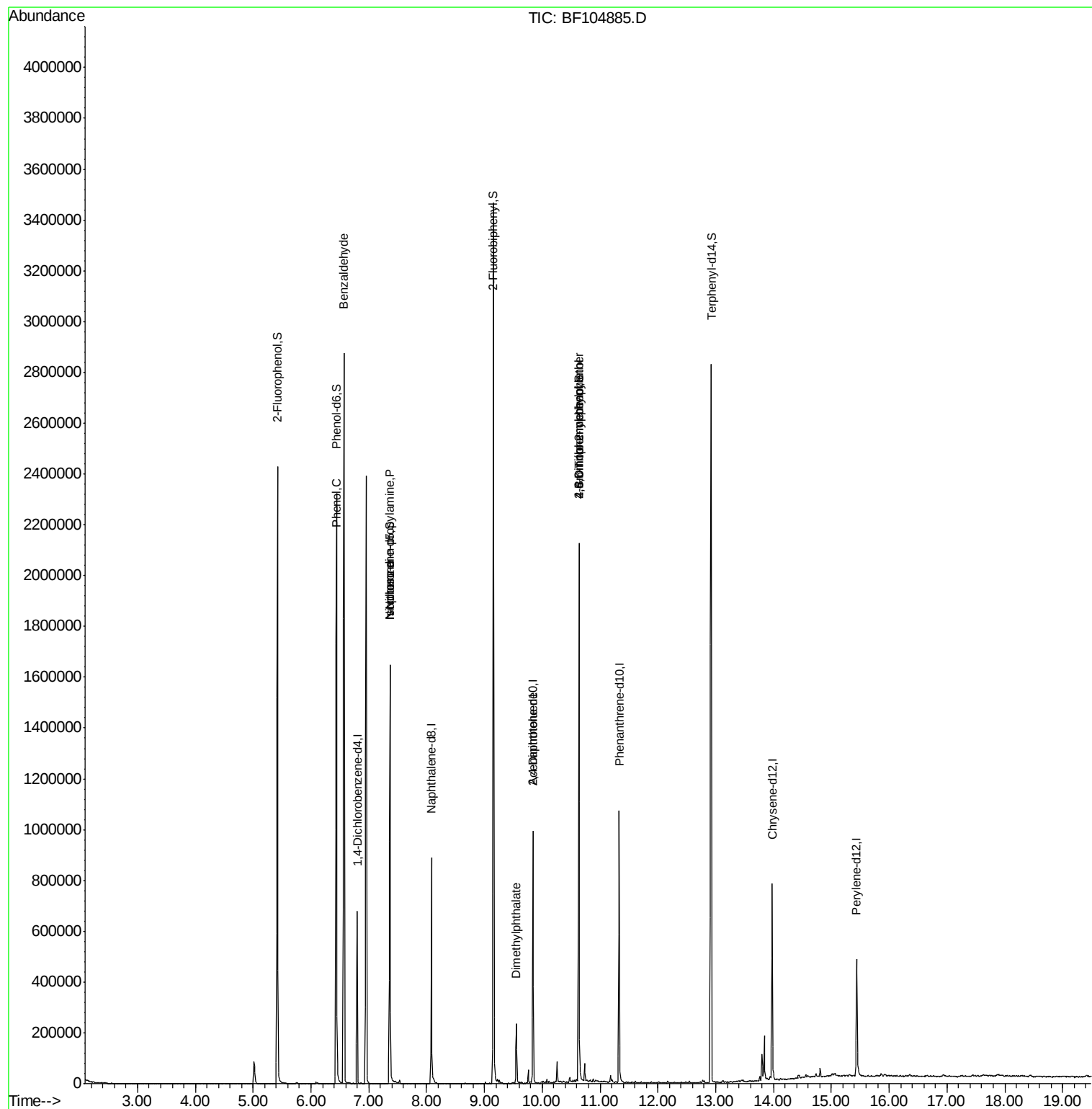
| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.42  | 112  | 842604   | 123.57 | ng    | 0.01     |
| 7) Phenol-d6                | 6.44  | 99   | 1041533  | 124.31 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.37  | 82   | 646722   | 96.09  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.63 | 330  | 288077   | 135.40 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.16  | 172  | 1137360  | 87.60  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.92 | 244  | 1099749  | 96.45  | ng    | 0.00     |

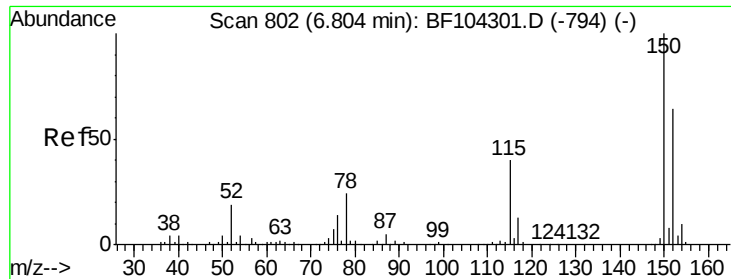
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.57  | 77   | 18223    | 2.031     | ng    | 85     |
| 10) Phenol                     | 6.45  | 94   | 20697    | 2.328     | ng    | 94     |
| 19) n-Nitroso-di-n-propylamine | 7.37  | 70   | 84205    | 15.380    | ng    | # 72   |
| 25) Isophorone                 | 7.37  | 82   | 646715   | 45.442    | ng    | # 64   |
| 49) Dimethylphthalate          | 9.55  | 163  | 100393   | 6.207     | ng    | 99     |
| 56) 2,4-Dinitrotoluene         | 9.83  | 165  | 25555    | 6.510     | ng    | # 23   |
| 64) 4,6-Dinitro-2-methylphenol | 10.63 | 198  | 575      | 7.608     | ng    | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.63 | 248  | 17414    | 4.271     | ng    | # 1    |
| 76) Benzidine                  | 12.92 | 184  | 14140    | Below Cal |       | 97     |

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

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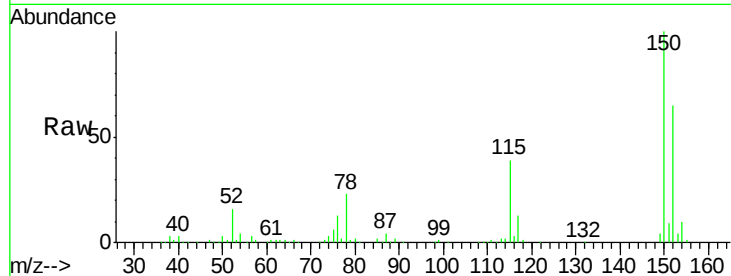




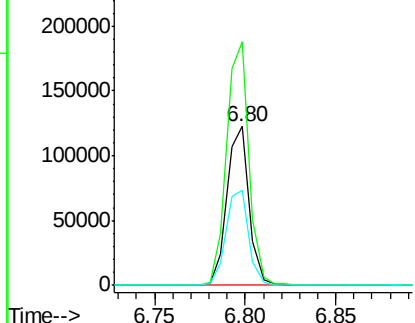
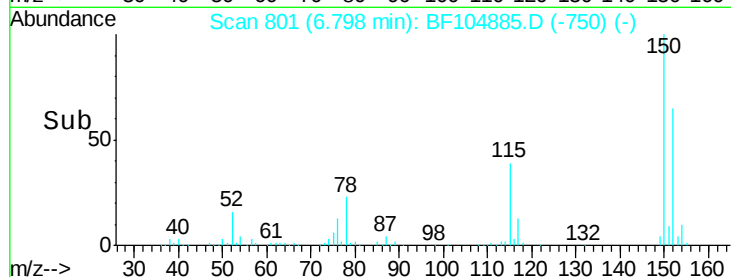
#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.80 min Scan# 801  
Delta R.T. 0.00 min  
Lab File: BF104885.D  
Acq: 27 Apr 2018 17:03

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 153.4 | 124.6 | 186.8 |
| 115     | 59.7  | 50.1  | 75.1  |



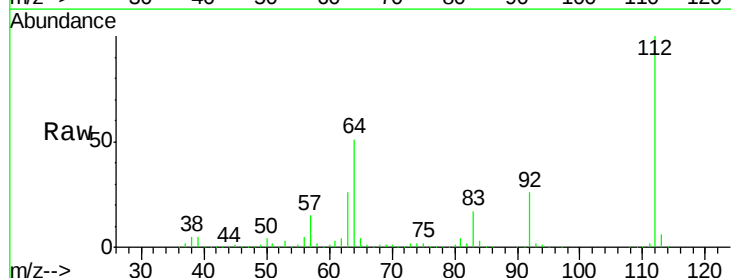
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



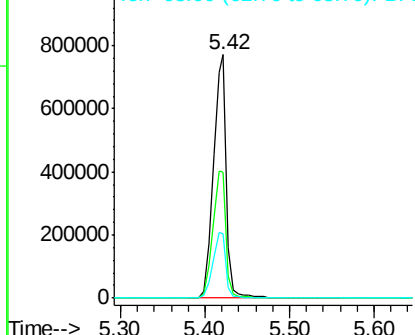
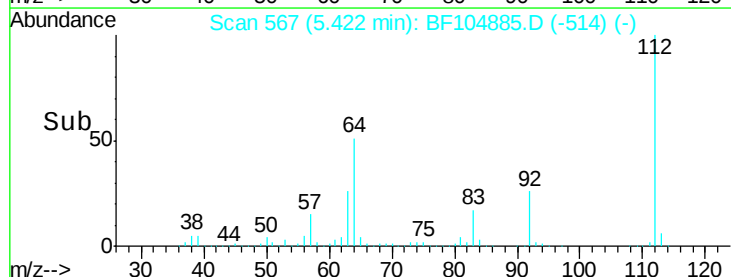
#5

2-Fluorophenol  
Concen: 123.569 ng  
RT: 5.42 min Scan# 567  
Delta R.T. 0.01 min  
Lab File: BF104885.D  
Acq: 27 Apr 2018 17:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 51.4  | 47.9  | 71.9  |
| 63      | 26.3  | 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: 124.314 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF104885.D

Acq: 27 Apr 2018 17:03

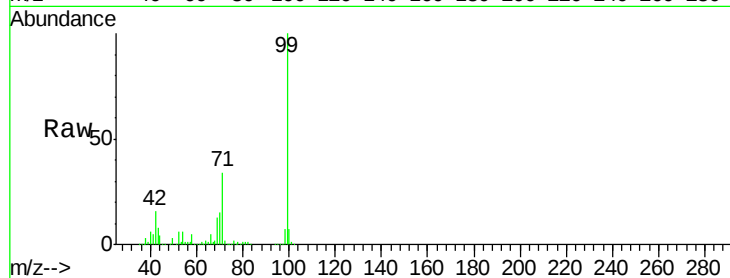
Tot Ion: 99 Resp: 1041533

Ion Ratio Lower Upper

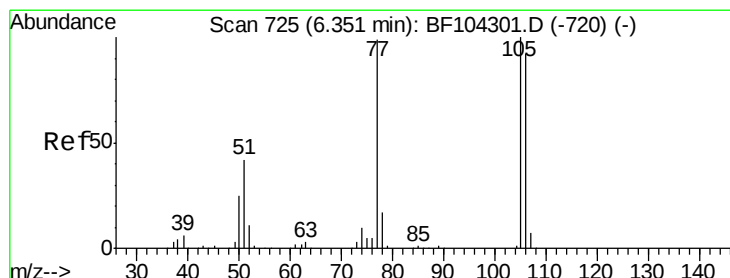
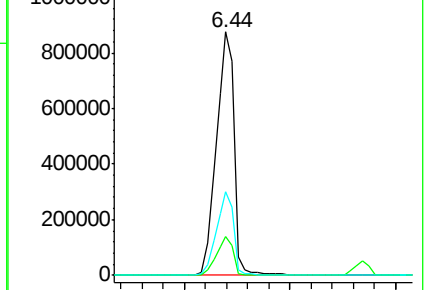
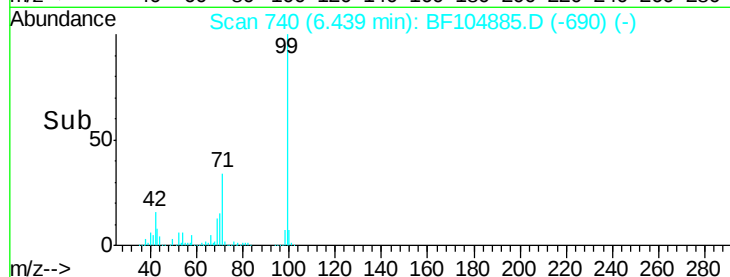
99 100

42 15.7 14.5 21.7

71 34.3 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



#9

Benzaldehyde

Concen: 2.031 ng

RT: 6.57 min Scan# 762

Delta R.T. 0.22 min

Lab File: BF104885.D

Acq: 27 Apr 2018 17:03

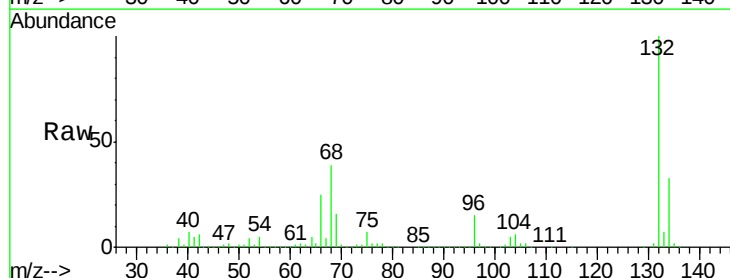
Tgt Ion: 77 Resp: 18223

Ion Ratio Lower Upper

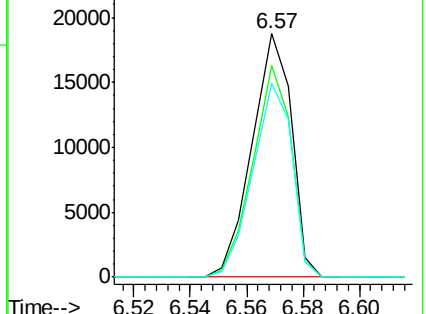
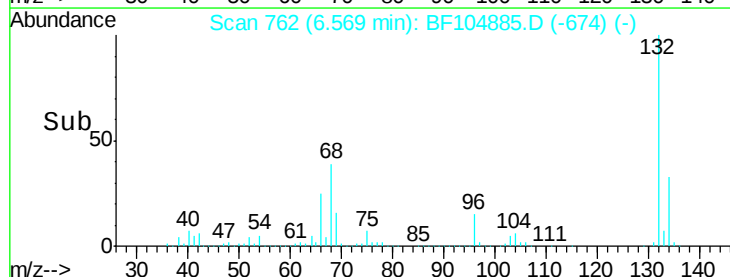
77 100

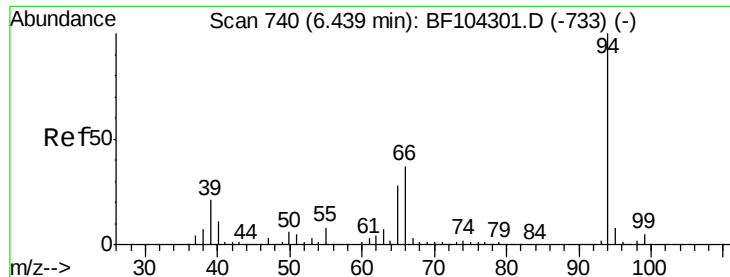
105 87.0 81.1 121.1

106 79.3 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: 2.328 ng

RT: 6.45 min Scan# 742

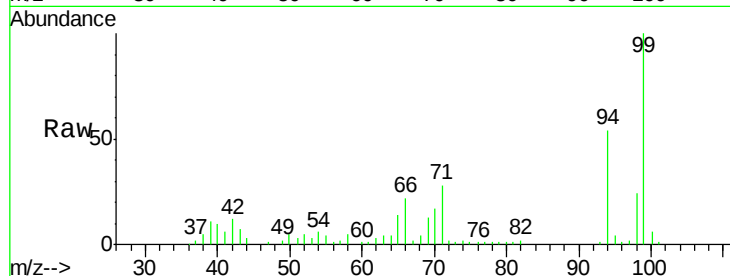
Delta R.T. -0.01 min

Lab File: BF104885.D

Acq: 27 Apr 2018 17:03

Tot Ion: 94 Resp: 20697

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 26.5  | 7.9   | 47.9  |
| 66  | 41.1  | 16.2  | 56.2  |

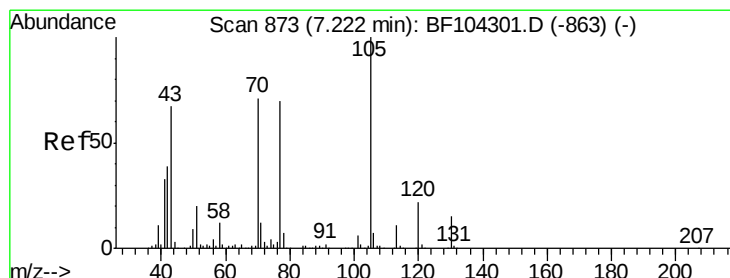
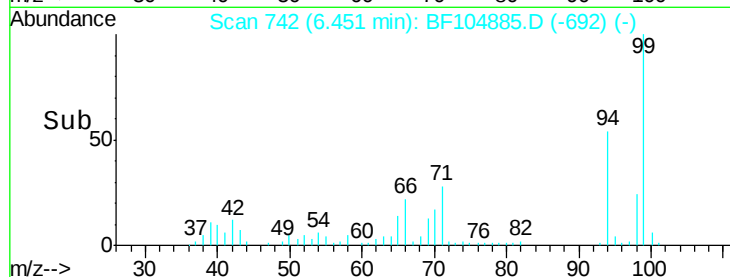
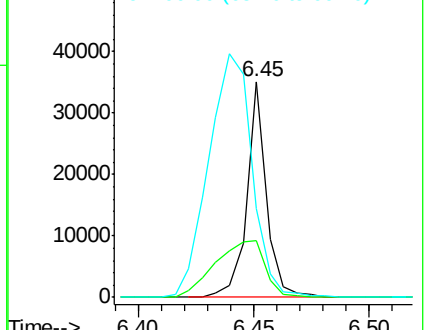


Abundance

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



#19

n-Nitroso-di-n-propylamine

Concen: 15.380 ng

RT: 7.37 min Scan# 898

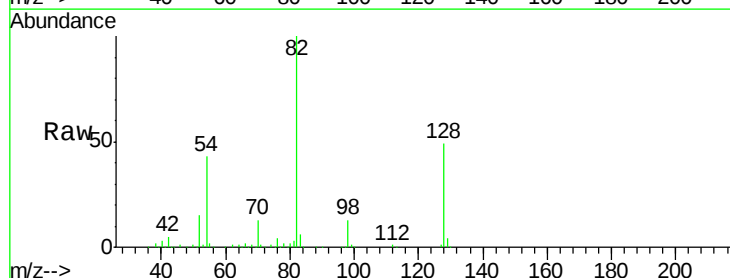
Delta R.T. 0.15 min

Lab File: BF104885.D

Acq: 27 Apr 2018 17:03

Tgt Ion: 70 Resp: 84205

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 41.4  | 47.5  | 71.3# |
| 101 | 0.0   | 7.4   | 11.2# |
| 130 | 2.1   | 16.6  | 25.0# |



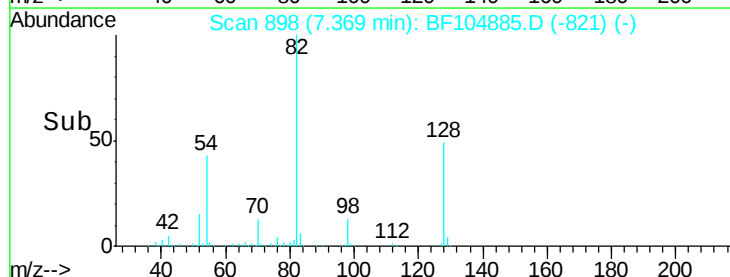
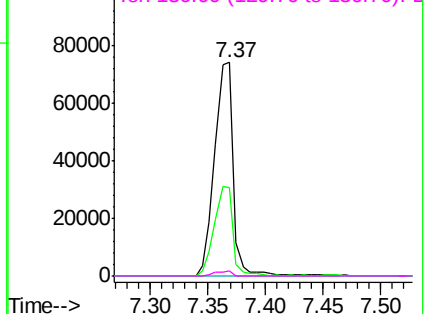
Abundance

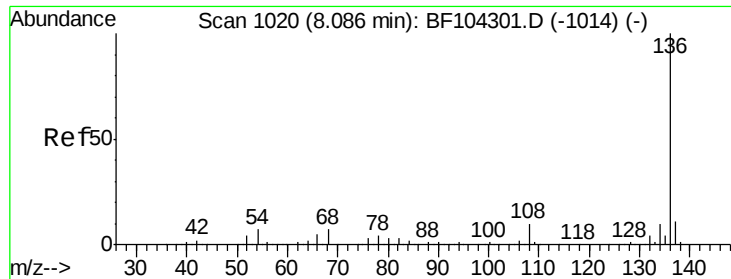
Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

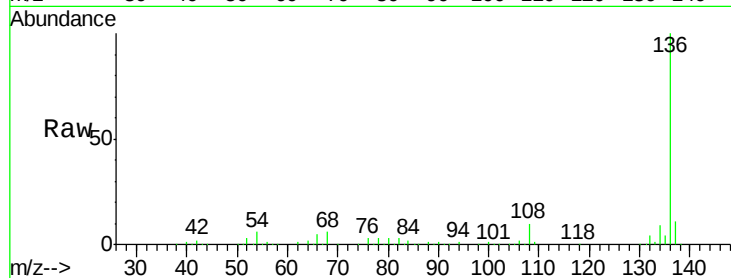
Ion 130.00 (129.70 to 130.70): BF1



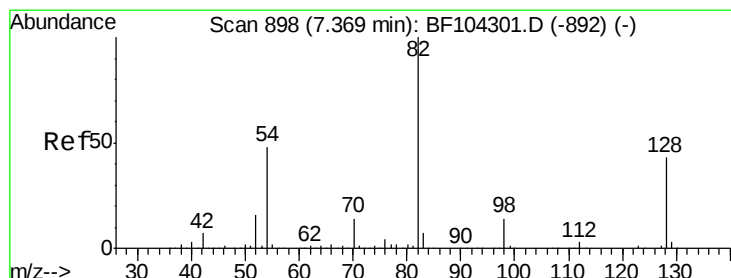
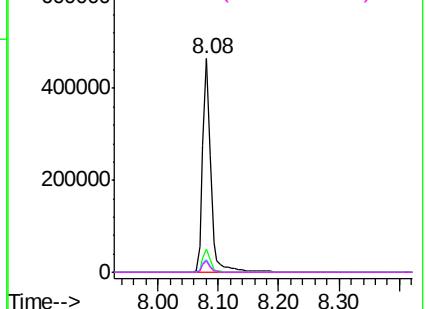
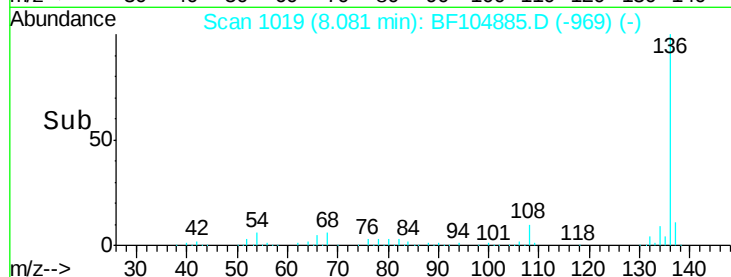


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.08 min Scan# 1019  
Delta R.T. -0.01 min  
Lab File: BF104885.D  
Acq: 27 Apr 2018 17:03

|             |       |        |  |
|-------------|-------|--------|--|
| Tot Ion:136 | Resp: | 439463 |  |
| Ion Ratio   | Lower | Upper  |  |
| 136 100     |       |        |  |
| 137 11.0    | 8.9   | 13.3   |  |
| 54 6.2      | 6.6   | 9.8#   |  |
| 68 5.6      | 5.0   | 7.4    |  |

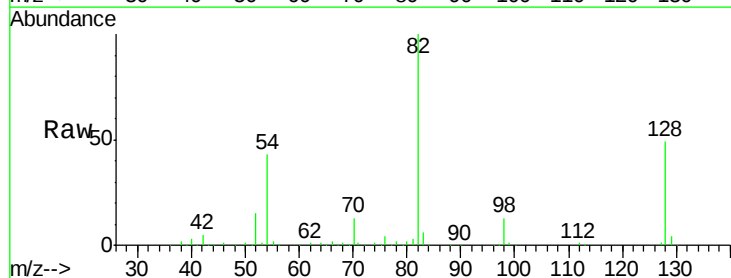


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

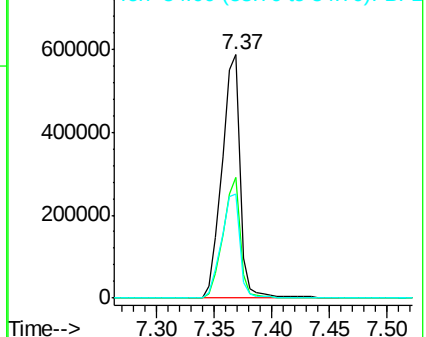
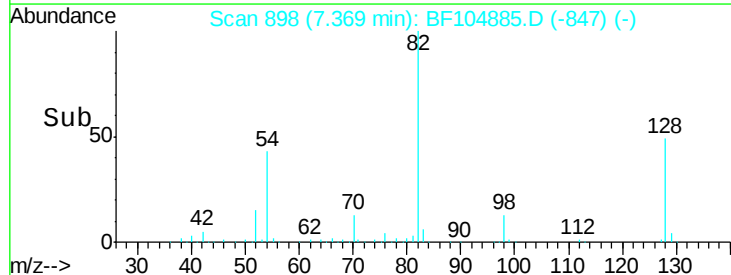


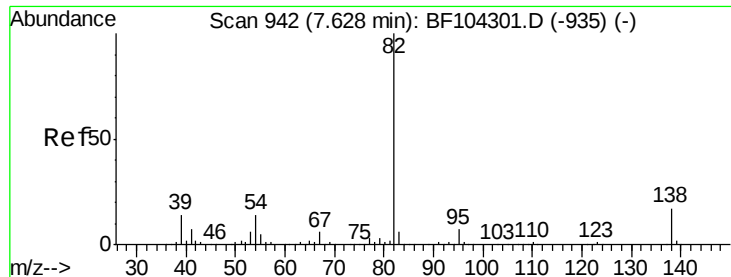
#23  
Nitrobenzene-d5  
Concen: 96.094 ng  
RT: 7.37 min Scan# 898  
Delta R.T. 0.00 min  
Lab File: BF104885.D  
Acq: 27 Apr 2018 17:03

|             |              |
|-------------|--------------|
| Tgt Ion: 82 | Resp: 646722 |
| Ion Ratio   | Lower Upper  |
| 82 100      |              |
| 128 49.3    | 36.1 54.1    |
| 54 42.9     | 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: 45.442 ng

RT: 7.37 min Scan# 898

Delta R.T. -0.26 min

Lab File: BF104885.D

Acq: 27 Apr 2018 17:03

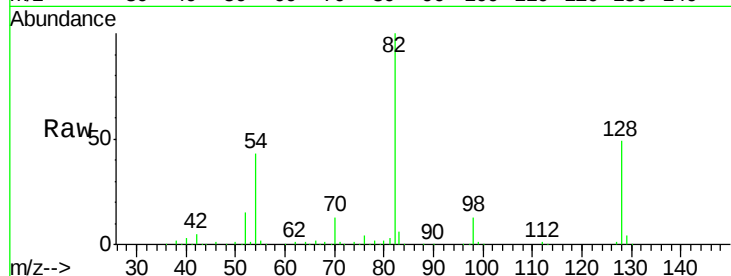
Tot Ion: 82 Resp: 646715

Ion Ratio Lower Upper

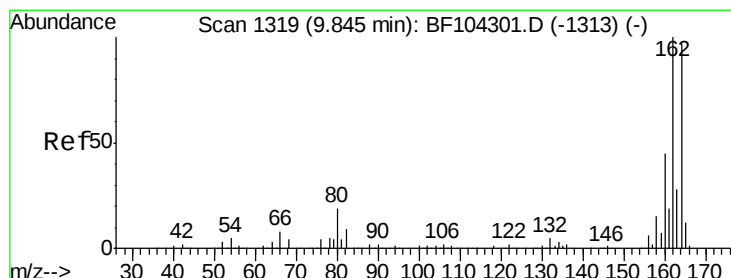
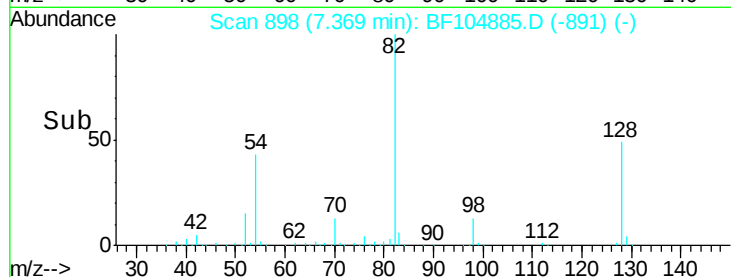
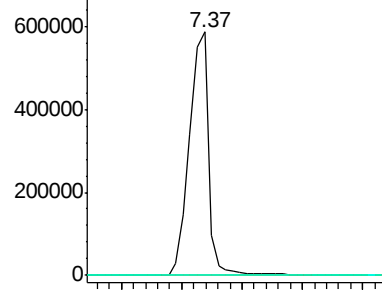
82 100

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: BF104885.D

Acq: 27 Apr 2018 17:03

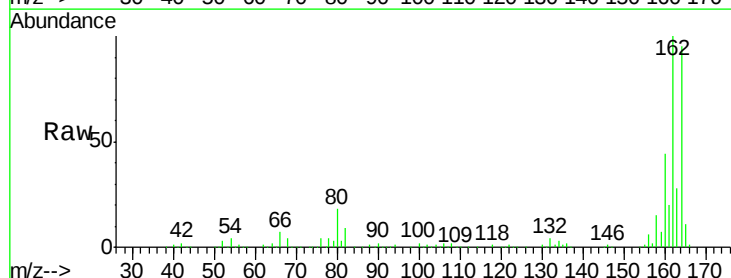
Tgt Ion: 164 Resp: 205104

Ion Ratio Lower Upper

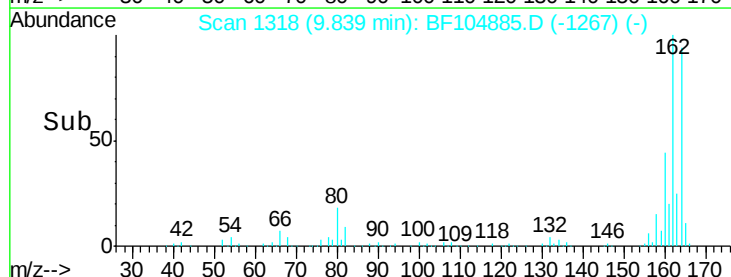
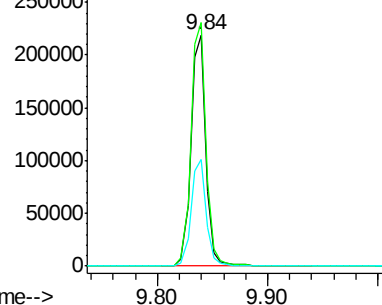
164 100

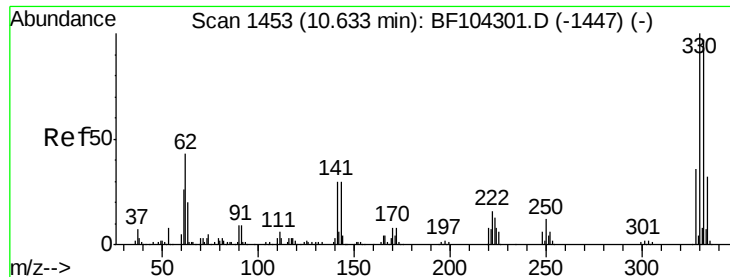
162 105.3 86.1 129.1

160 46.3 38.3 57.5



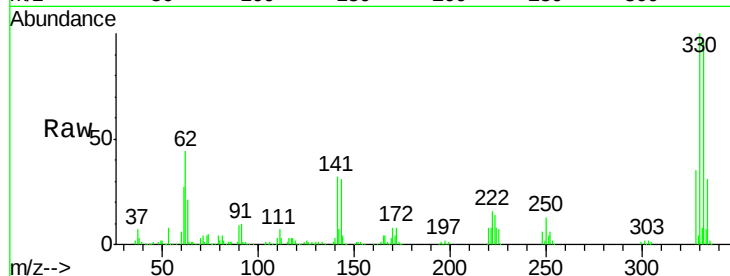
Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E



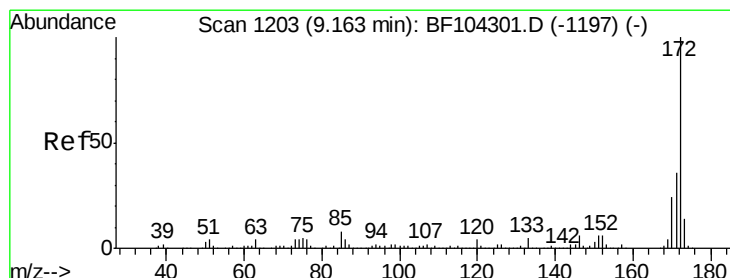
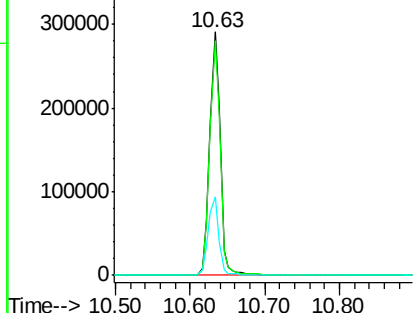
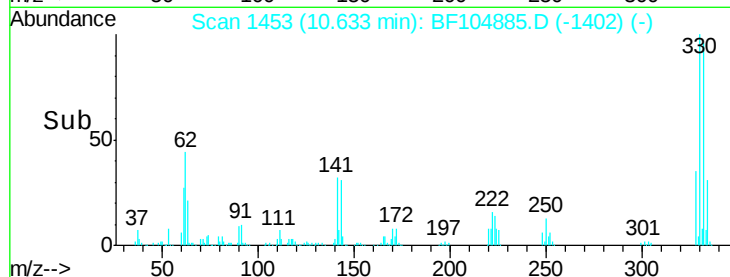


#41  
 2,4,6-Tribromophenol  
 Concen: 135.400 ng  
 RT: 10.63 min Scan# 1453  
 Delta R.T. 0.00 min  
 Lab File: BF104885.D  
 Acq: 27 Apr 2018 17:03

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.0  | 77.0  | 115.6 |
| 141     | 32.7  | 29.9  | 44.9  |

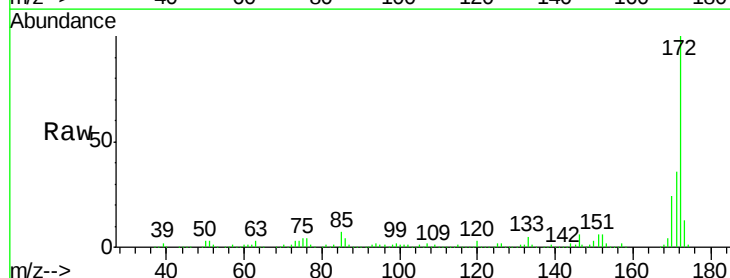


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

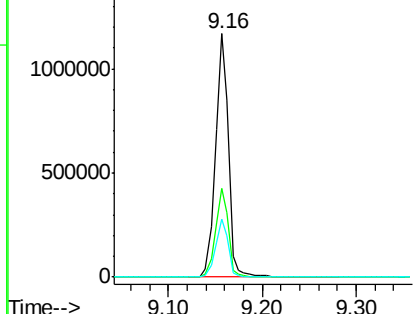
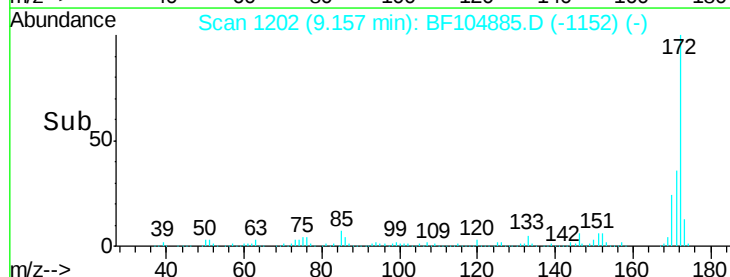


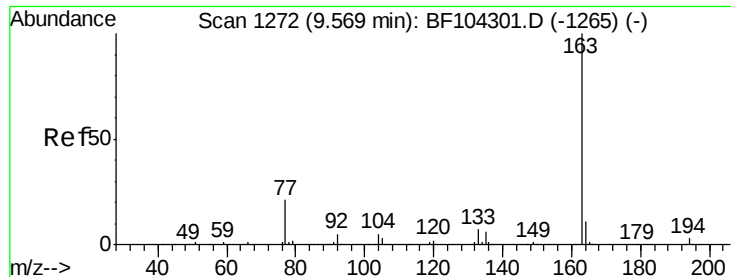
#44  
 2-Fluorobiphenyl  
 Concen: 87.602 ng  
 RT: 9.16 min Scan# 1202  
 Delta R.T. -0.01 min  
 Lab File: BF104885.D  
 Acq: 27 Apr 2018 17:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.5  | 29.7  | 44.5  |
| 170     | 24.1  | 19.6  | 29.4  |



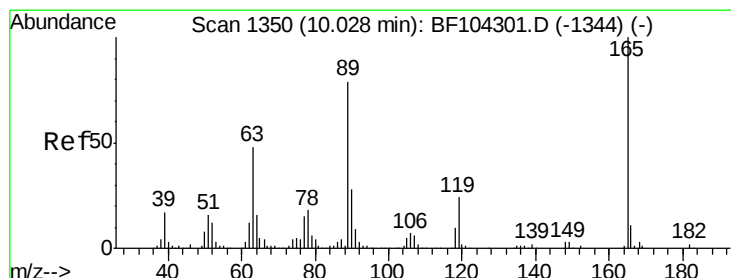
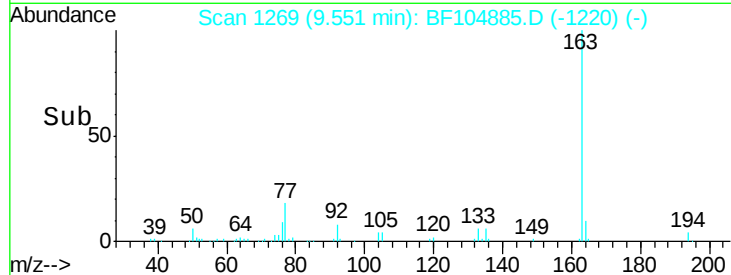
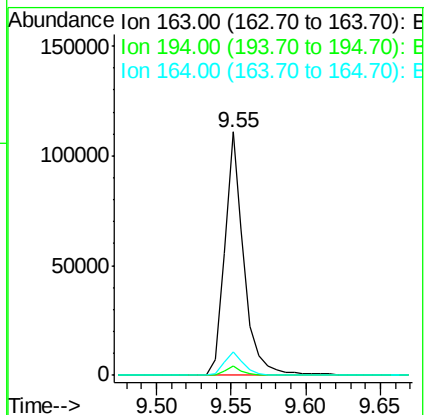
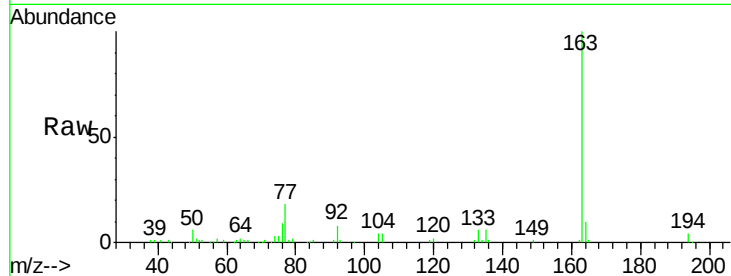
Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E





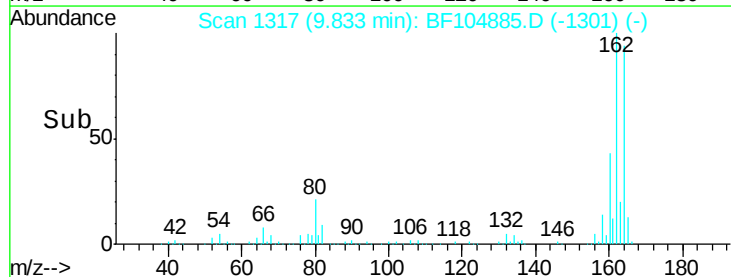
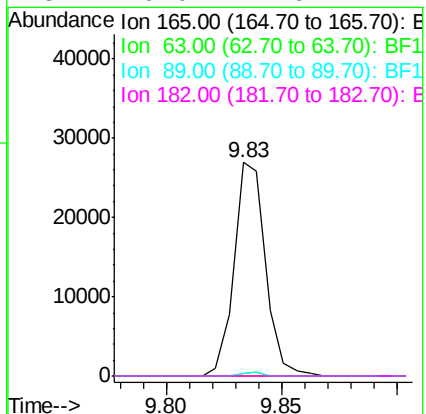
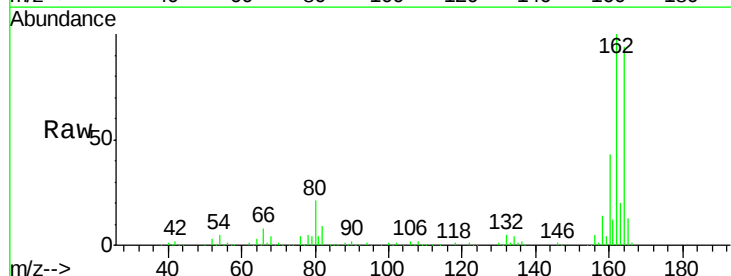
#49  
Dimethylphthalate  
Concen: 6.207 ng  
RT: 9.55 min Scan# 1269  
Delta R.T. -0.01 min  
Lab File: BF104885.D  
Acq: 27 Apr 2018 17:03

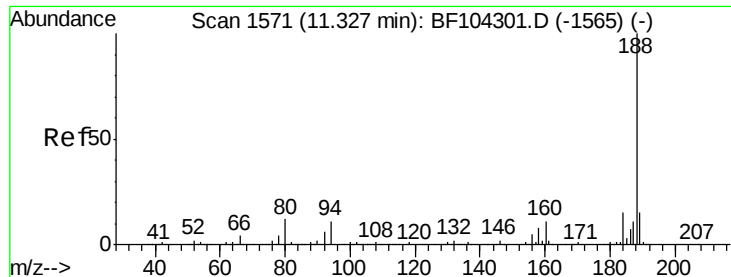
|             |       |          |
|-------------|-------|----------|
| Tot Ion:163 | Resp: | 100393   |
| Ion Ratio   | Lower | Upper    |
| 163         | 100   |          |
| 194         | 3.6   | 2.7 4.1  |
| 164         | 9.8   | 8.2 12.2 |



#56  
2,4-Dinitrotoluene  
Concen: 6.510 ng  
RT: 9.83 min Scan# 1317  
Delta R.T. -0.21 min  
Lab File: BF104885.D  
Acq: 27 Apr 2018 17:03

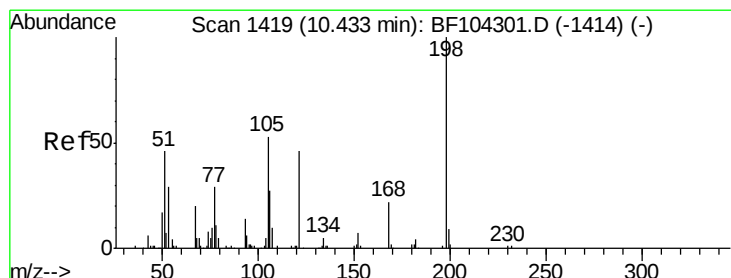
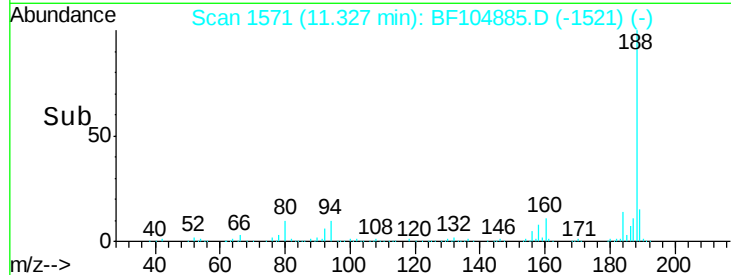
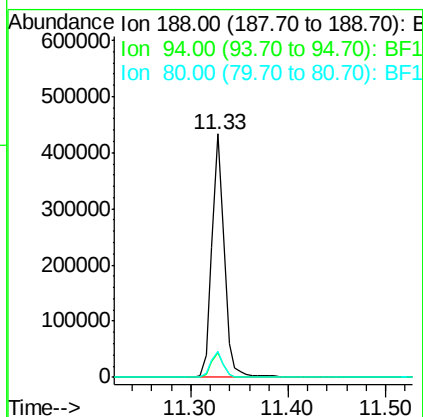
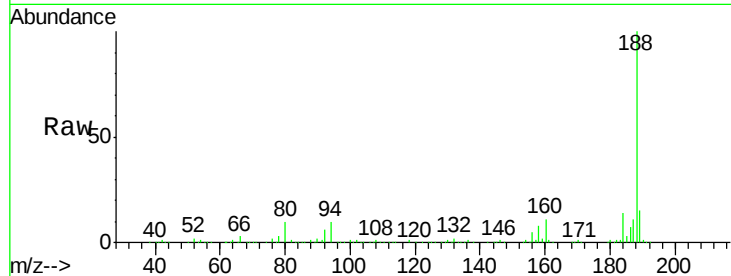
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:165 | Resp: | 25555      |
| Ion Ratio   | Lower | Upper      |
| 165         | 100   |            |
| 63          | 1.2   | 36.4 54.6# |
| 89          | 1.4   | 57.8 86.6# |
| 182         | 0.0   | 1.6 2.4#   |





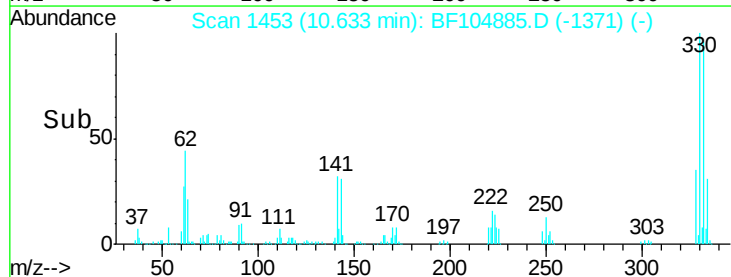
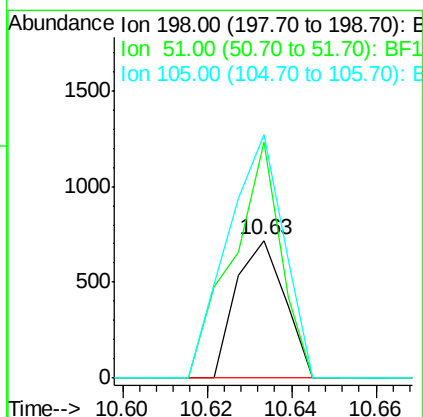
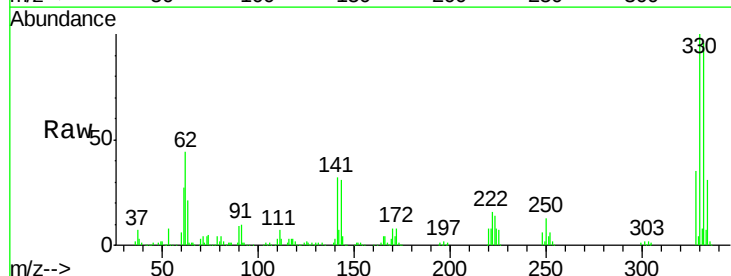
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.33 min Scan# 1571  
 Delta R.T. -0.01 min  
 Lab File: BF104885.D  
 Acq: 27 Apr 2018 17:03

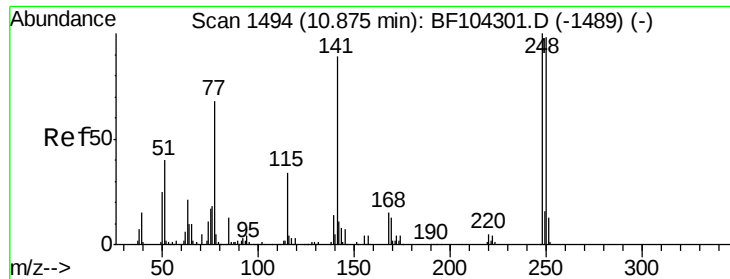
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.2  | 8.5   | 12.7  |
| 80      | 10.5  | 9.2   | 13.8  |



#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 7.608 ng  
 RT: 10.63 min Scan# 1453  
 Delta R.T. 0.18 min  
 Lab File: BF104885.D  
 Acq: 27 Apr 2018 17:03

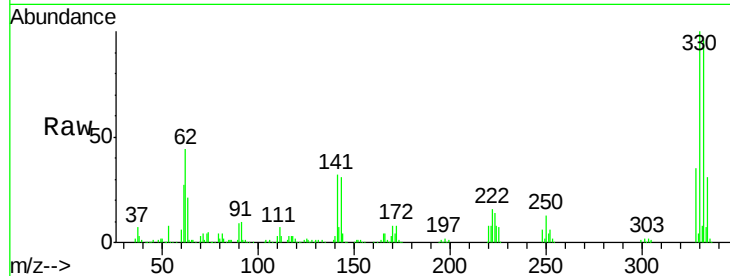
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 198     | 100   |       |       |
| 51      | 170.8 | 37.7  | 77.7# |
| 105     | 176.6 | 36.3  | 76.3# |



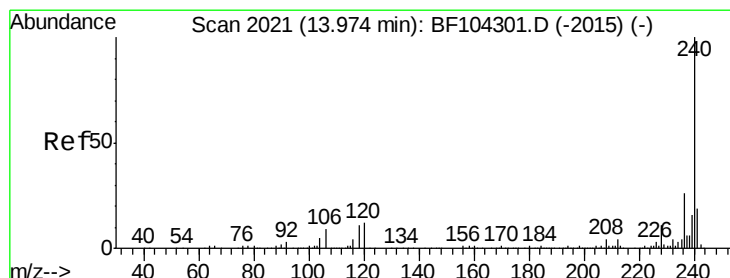
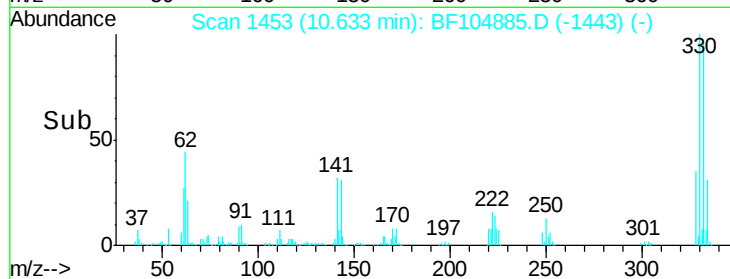
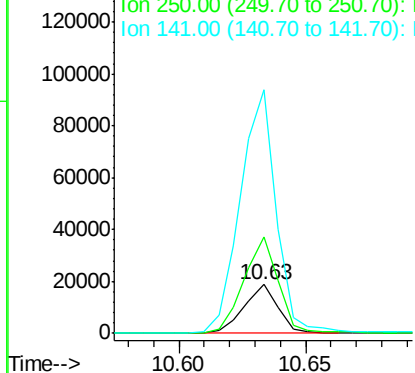


#66  
 4-Bromophenyl-phenylether  
 Concen: 4.271 ng  
 RT: 10.63 min Scan# 1453  
 Delta R.T. -0.24 min  
 Lab File: BF104885.D  
 Acq: 27 Apr 2018 17:03

Tot Ion:248 Resp: 17414  
 Ion Ratio Lower Upper  
 248 100  
 250 197.9 76.9 115.3#  
 141 497.0 74.4 111.6#

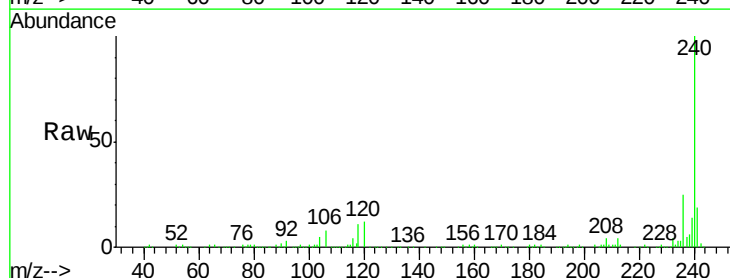


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

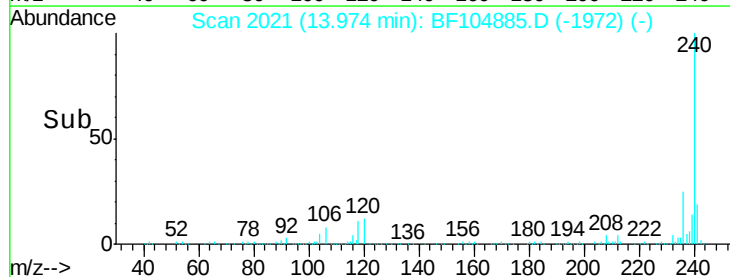
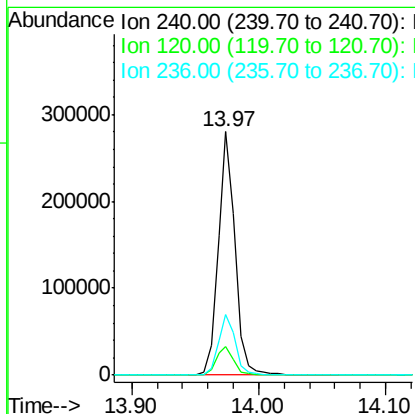


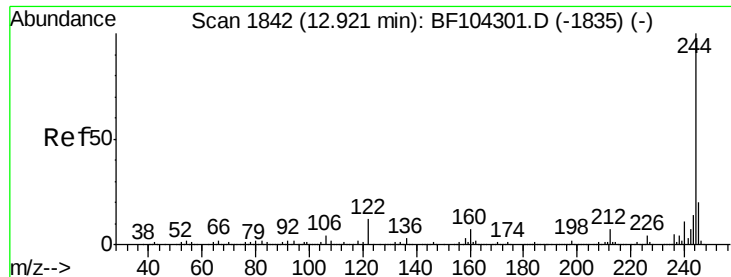
#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.97 min Scan# 2021  
 Delta R.T. -0.01 min  
 Lab File: BF104885.D  
 Acq: 27 Apr 2018 17:03

Tgt Ion:240 Resp: 259960  
 Ion Ratio Lower Upper  
 240 100  
 120 11.8 9.5 14.3  
 236 24.8 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





#78

Terphenyl-d14

Concen: 96.447 ng

RT: 12.92 min Scan# 1842

Delta R.T. 0.00 min

Lab File: BF104885.D

Acq: 27 Apr 2018 17:03

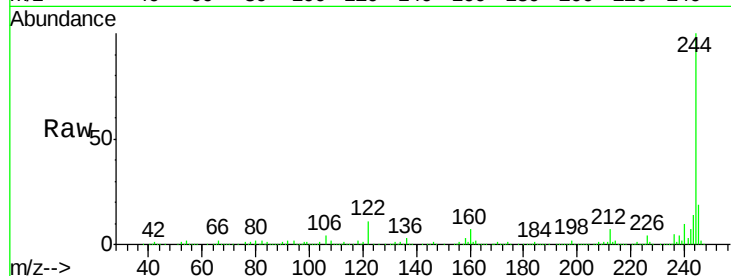
Tot Ion:244 Resp: 1099749

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 6.9   | 5.4   | 8.0   |
| 122 | 10.8  | 11.0  | 16.4  |

244 100

212 6.9 5.4 8.0

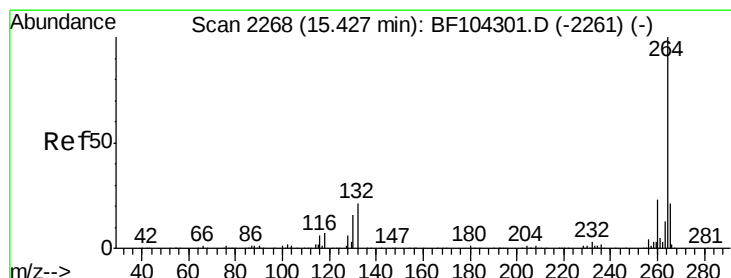
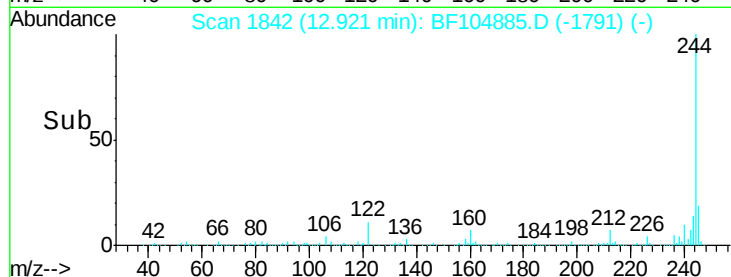
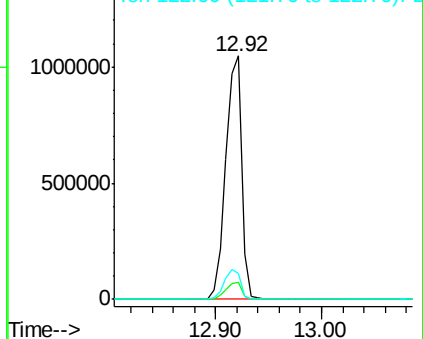
122 10.8 11.0 16.4



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



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.44 min Scan# 2270

Delta R.T. -0.01 min

Lab File: BF104885.D

Acq: 27 Apr 2018 17:03

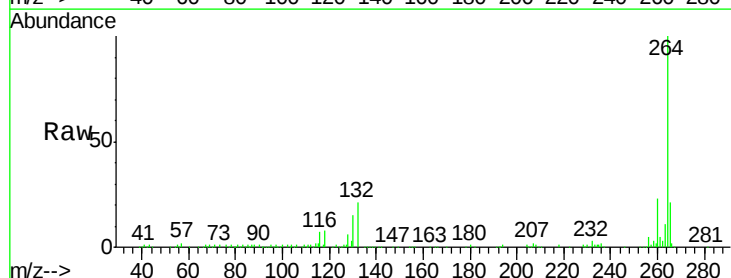
Tgt Ion:264 Resp: 226032

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.1  | 19.2  | 28.8  |
| 265 | 21.5  | 17.5  | 26.3  |

264 100

260 23.1 19.2 28.8

265 21.5 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

