

Data Path : Z:\HPCHEM1\BNA F\Data\BF122116\  
 Data File : BF091868.D  
 Acq On : 22 Dec 2016 7:06  
 Operator : UM/SJ  
 Sample : H6156-14  
 Misc :  
 ALS Vial : 38 Sample Multiplier: 1

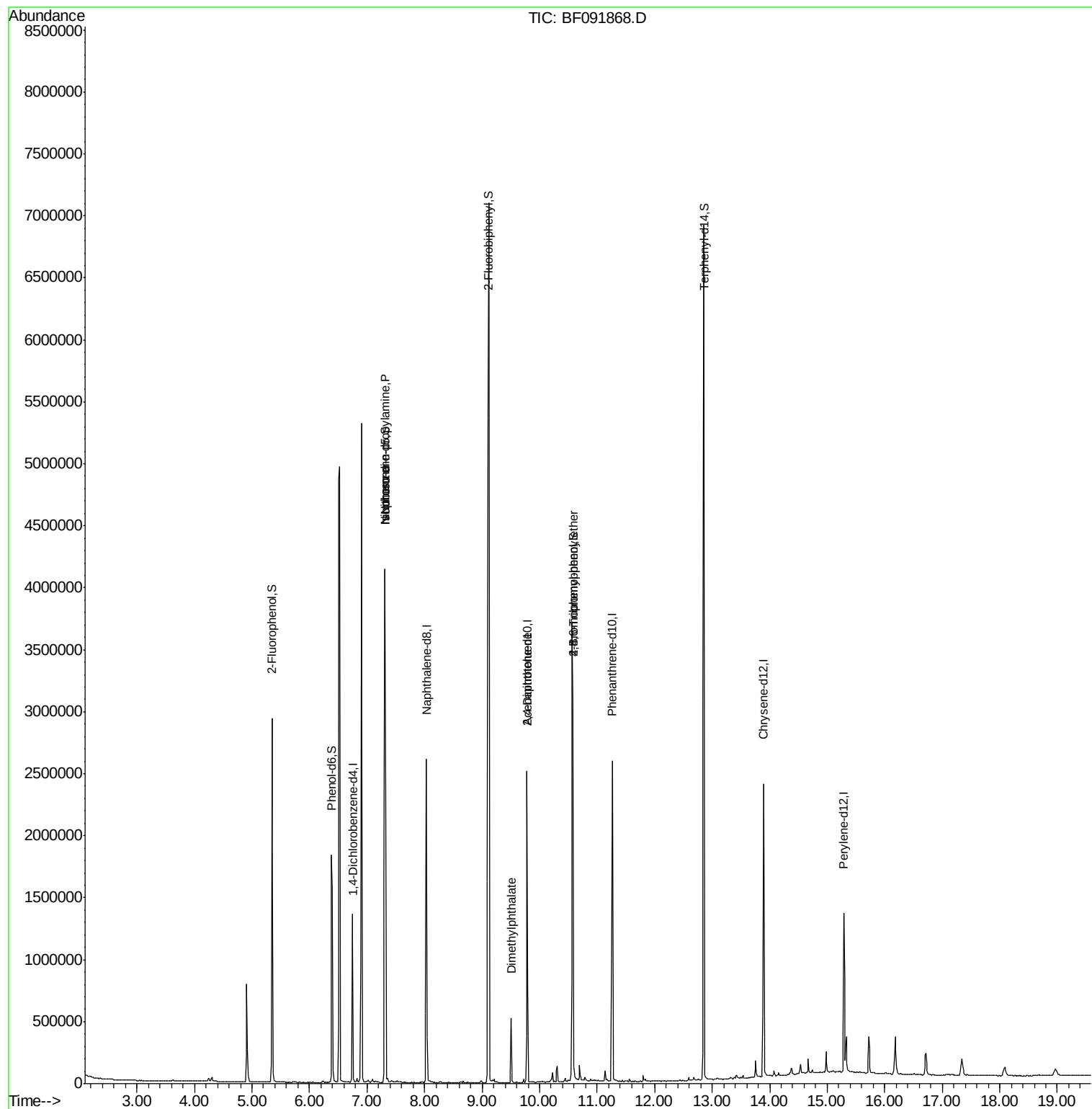
Quant Time: Dec 22 15:57:59 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 21 16:17:51 2016  
 Response via : Initial Calibration

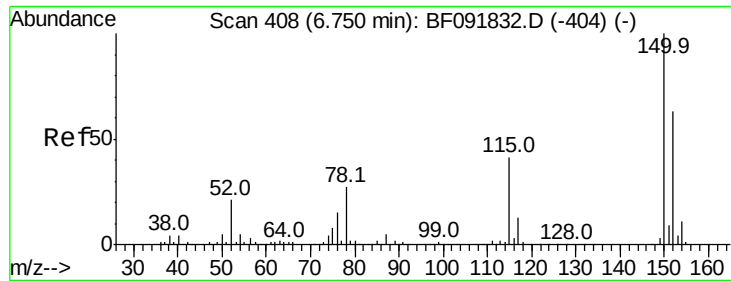
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.75  | 152  | 295047   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.03  | 136  | 1225160  | 20.00     | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.78  | 164  | 601382   | 20.00     | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.27 | 188  | 1036046  | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12               | 13.89 | 240  | 785524   | 20.00     | ng    | -0.01    |
| 86) Perylene-d12               | 15.29 | 264  | 616037   | 20.00     | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.34  | 112  | 1067506  | 60.41     | ng    | 0.00     |
| 7) Phenol-d6                   | 6.38  | 99   | 928443   | 43.04     | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.31  | 82   | 2041489  | 92.66     | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.58 | 330  | 727952   | 146.27    | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.12  | 172  | 3283398  | 116.67    | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.85 | 244  | 2361905  | 72.92     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.38  | 77   | 1481     | Below Cal | #     | 1        |
| 19) n-Nitroso-di-n-propylamine | 7.31  | 70   | 264023   | 18.40     | ng    | # 77     |
| 25) Isophorone                 | 7.31  | 82   | 1627008  | 40.03     | ng    | # 65     |
| 37) 2-Methylnaphthalene        | 8.74  | 142  | 1633     | Below Cal | #     | 65       |
| 49) Dimethylphthalate          | 9.50  | 163  | 206978   | 5.38      | ng    | # 99     |
| 56) 2,4-Dinitrotoluene         | 9.78  | 165  | 77386    | 7.32      | ng    | # 19     |
| 66) 4-Bromophenyl-phenylether  | 10.58 | 248  | 45536    | 4.23      | ng    | # 1      |
| 71) Anthracene                 | 11.33 | 178  | 825      | Below Cal | #     | 59       |
| 73) Di-n-butylphthalate        | 11.84 | 149  | 7148     | Below Cal | #     | 90       |
| 74) Fluoranthene               | 12.48 | 202  | 1476     | Below Cal | #     | 61       |

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

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QLast Update : Wed Dec 21 16:17:51 2016  
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.75 min Scan# 408

Delta R.T. 0.00 min

Lab File: BF091868.D

Acq: 22 Dec 2016 7:06

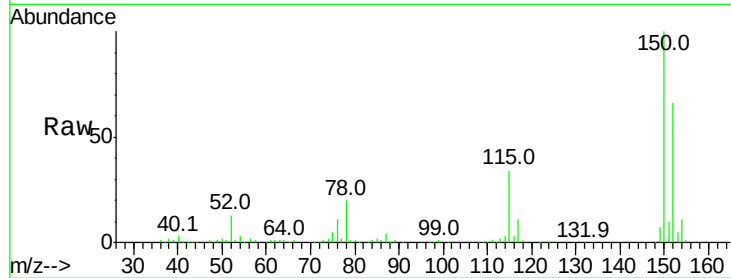
Tot Ion:152 Resp: 295047

Ion Ratio Lower Upper

152 100

150 152.5 124.9 187.3

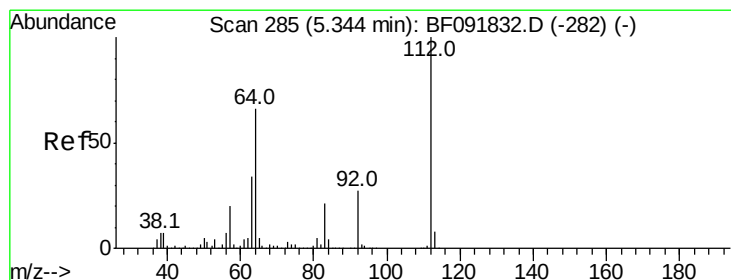
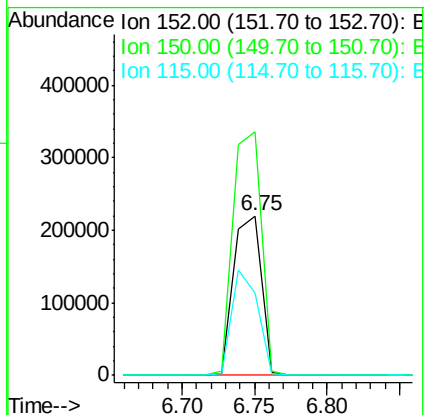
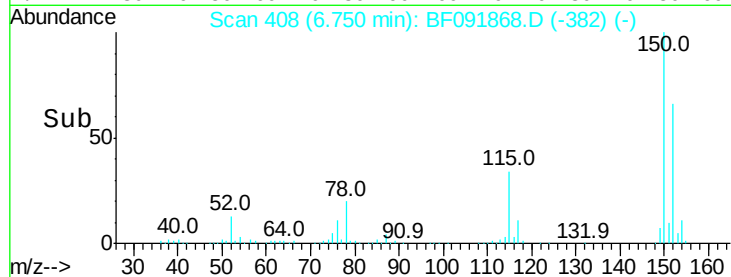
115 51.6 46.0 69.0



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: 60.41 ng

RT: 5.34 min Scan# 285

Delta R.T. 0.00 min

Lab File: BF091868.D

Acq: 22 Dec 2016 7:06

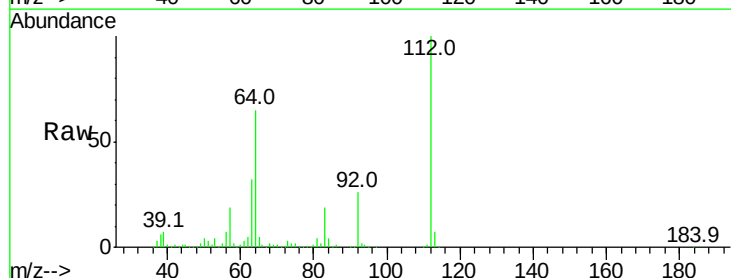
Tgt Ion:112 Resp: 1067506

Ion Ratio Lower Upper

112 100

64 65.5 46.1 69.1

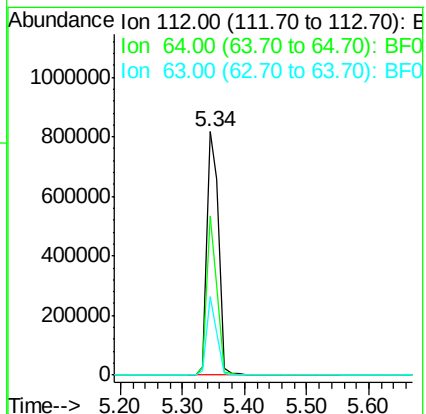
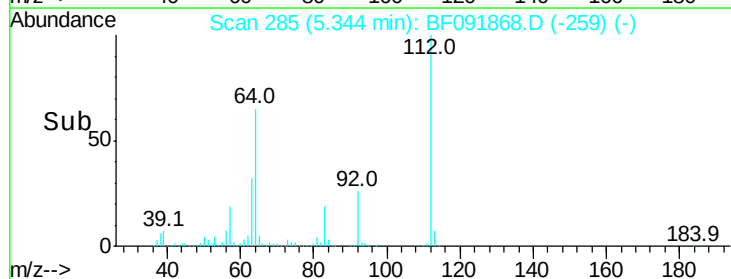
63 32.4 23.8 35.6

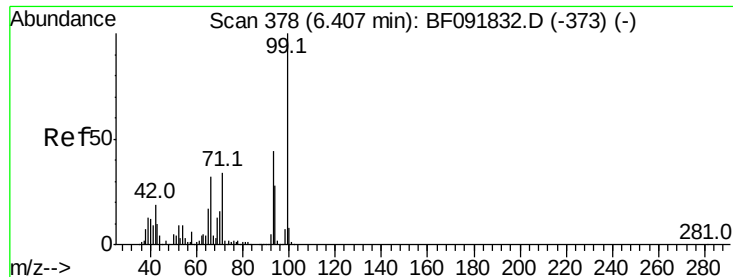


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 43.04 ng

RT: 6.38 min Scan# 376

Delta R.T. -0.02 min

Lab File: BF091868.D

Acq: 22 Dec 2016 7:06

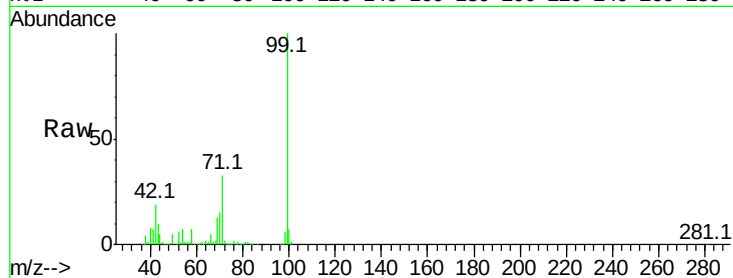
Tot Ion: 99 Resp: 928443

Ion Ratio Lower Upper

99 100

42 19.5 15.6 23.4

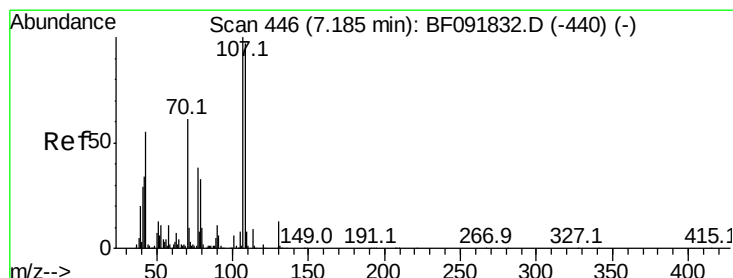
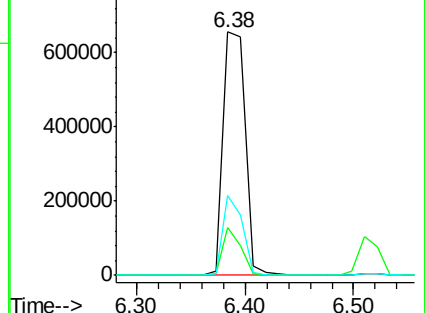
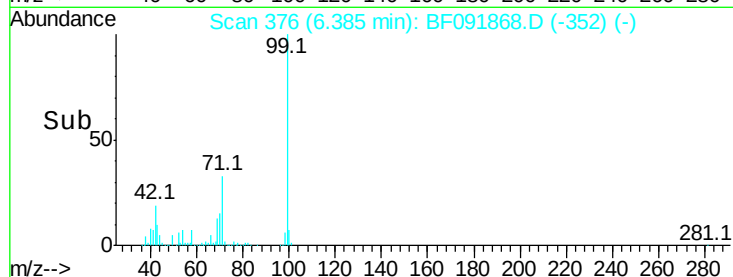
71 32.5 27.5 41.3



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 18.40 ng

RT: 7.31 min Scan# 457

Delta R.T. 0.13 min

Lab File: BF091868.D

Acq: 22 Dec 2016 7:06

Tgt Ion: 70 Resp: 264023

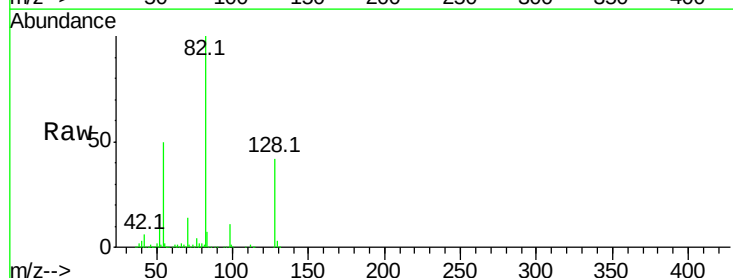
Ion Ratio Lower Upper

70 100

42 47.2 49.4 74.0#

101 0.0 7.4 11.2#

130 2.1 14.2 21.4#

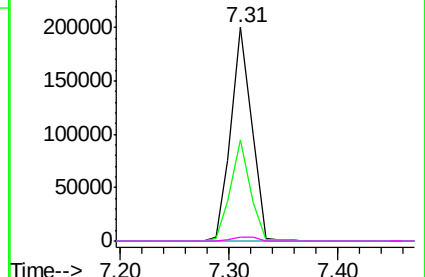
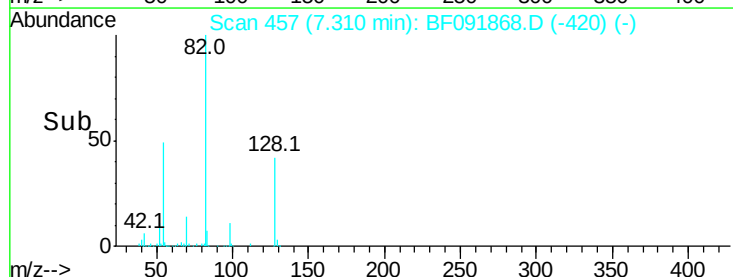


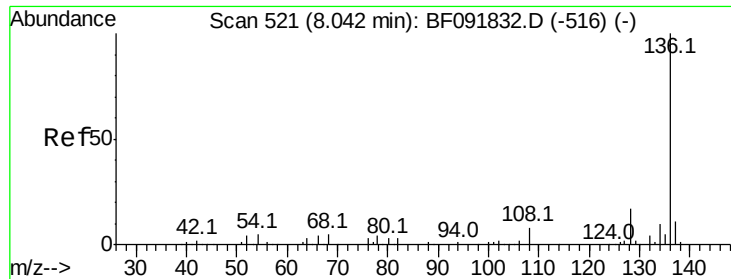
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

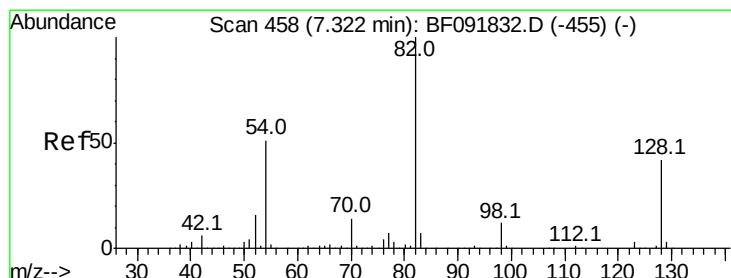
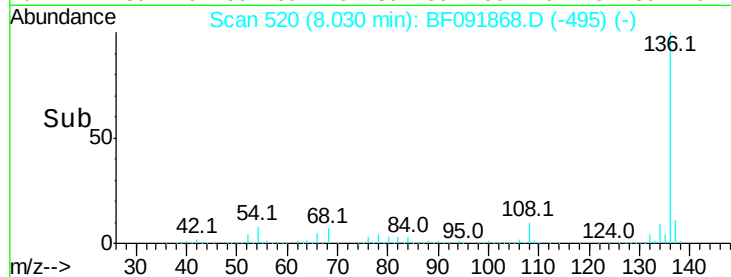
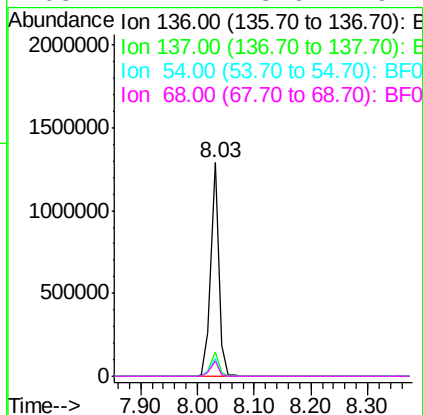
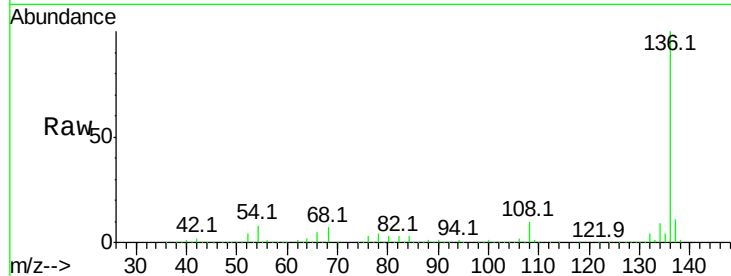
Ion 130.00 (129.70 to 130.70): BF0





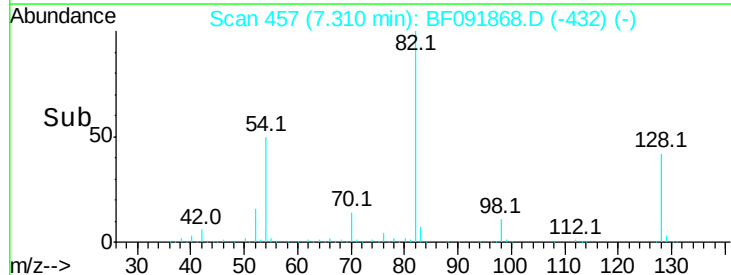
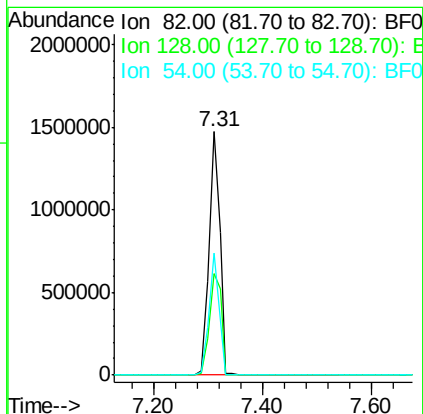
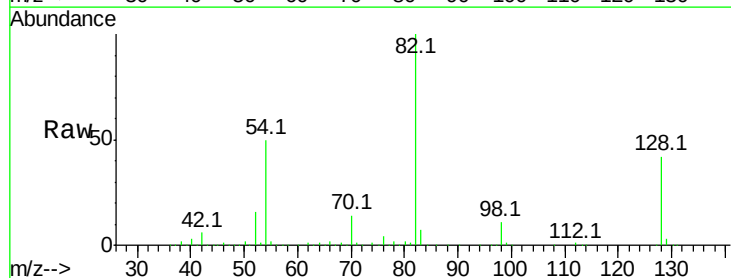
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.03 min Scan# 520  
Delta R.T. -0.01 min  
Lab File: BF091868.D  
Acq: 22 Dec 2016 7:06

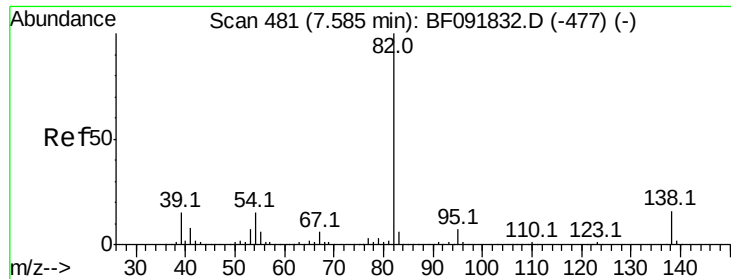
|             |               |
|-------------|---------------|
| Tot Ion:136 | Resp: 1225160 |
| Ion Ratio   | Lower Upper   |
| 136 100     |               |
| 137 11.2    | 8.4 12.6      |
| 54 8.4      | 4.5 6.7#      |
| 68 7.2      | 3.6 5.4#      |



#23  
Nitrobenzene-d5  
Concen: 92.66 ng  
RT: 7.31 min Scan# 457  
Delta R.T. -0.01 min  
Lab File: BF091868.D  
Acq: 22 Dec 2016 7:06

|             |               |
|-------------|---------------|
| Tgt Ion: 82 | Resp: 2041489 |
| Ion Ratio   | Lower Upper   |
| 82 100      |               |
| 128 41.6    | 34.6 52.0     |
| 54 49.9     | 39.5 59.3     |





#25

Isophorone

Concen: 40.03 ng

RT: 7.31 min Scan# 457

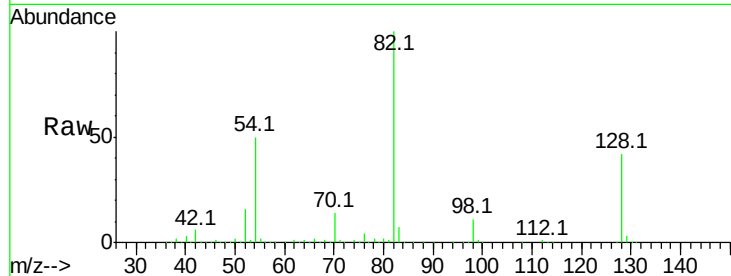
Delta R.T. -0.27 min

Lab File: BF091868.D

Acq: 22 Dec 2016 7:06

Tot Ion: 82 Resp: 1627008

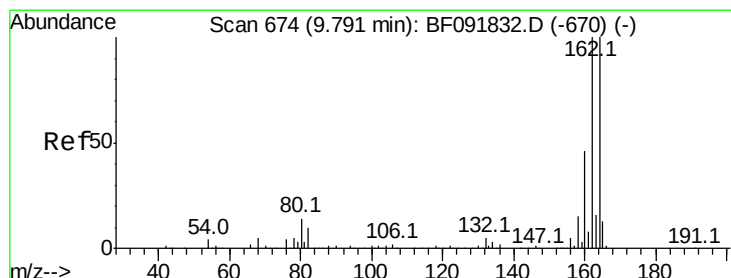
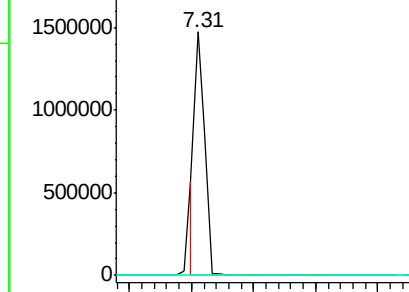
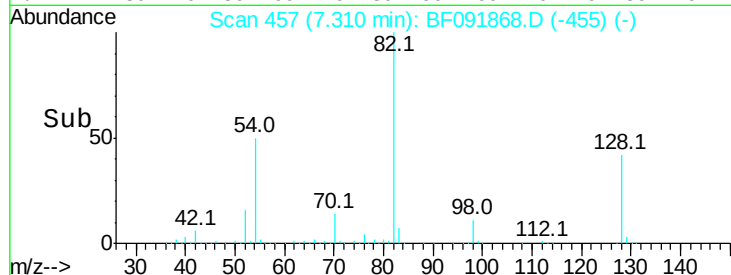
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 95  | 0.0   | 5.6   | 8.4#  |
| 138 | 0.0   | 14.6  | 22.0# |



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.78 min Scan# 673

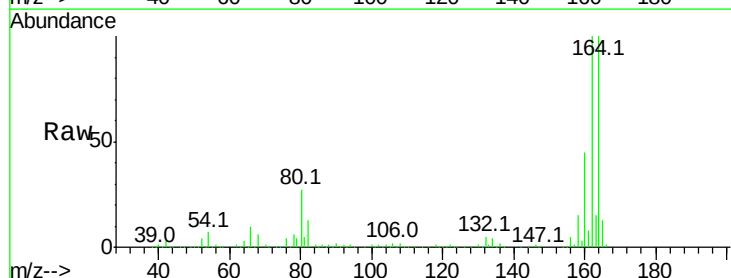
Delta R.T. -0.01 min

Lab File: BF091868.D

Acq: 22 Dec 2016 7:06

Tgt Ion: 164 Resp: 601382

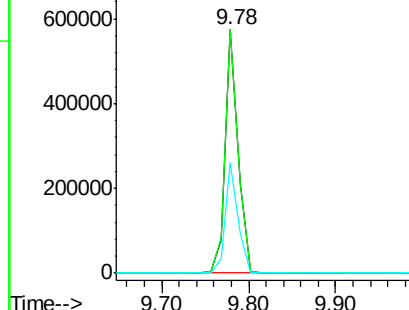
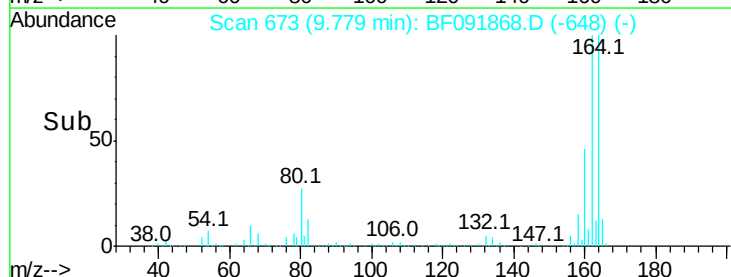
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 99.8  | 80.2  | 120.2 |
| 160 | 45.5  | 36.9  | 55.3  |

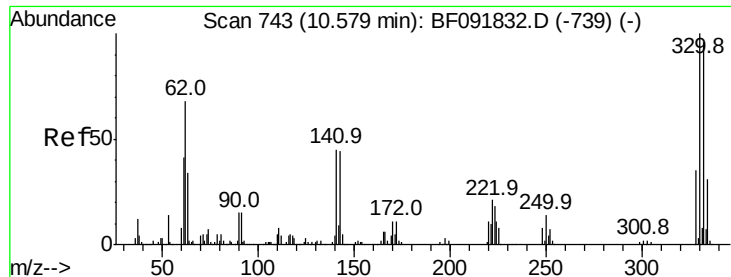


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

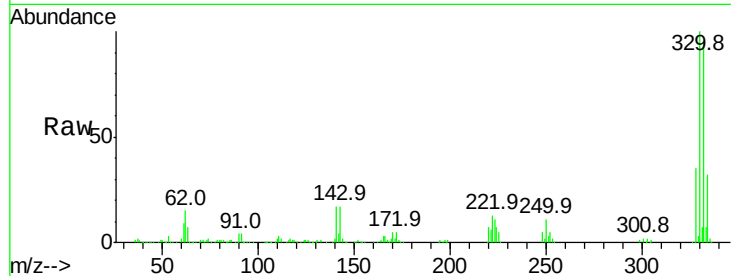
Ion 160.00 (159.70 to 160.70): E



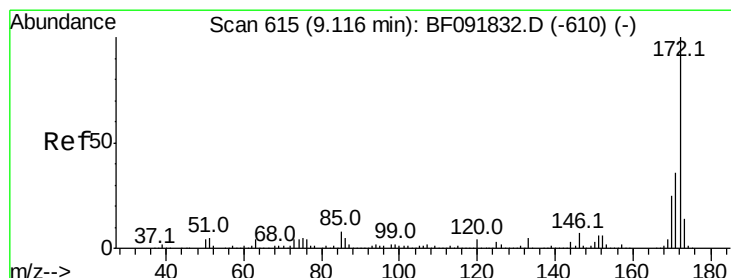
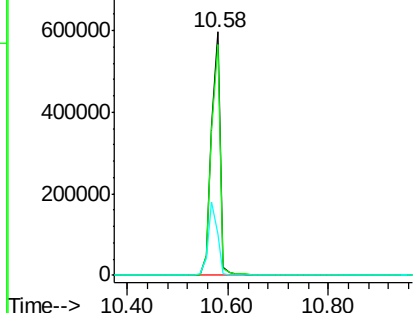
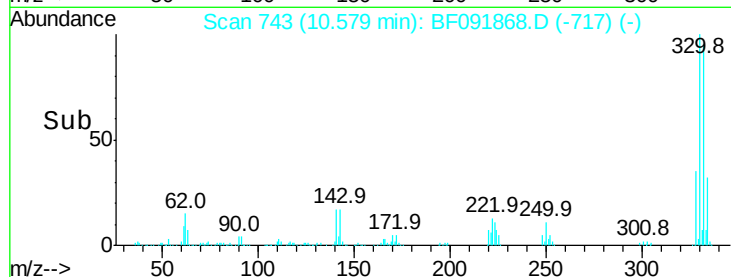


#41  
 2,4,6-Tribromophenol  
 Concen: 146.27 ng  
 RT: 10.58 min Scan# 743  
 Delta R.T. 0.00 min  
 Lab File: BF091868.D  
 Acq: 22 Dec 2016 7:06

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.7  | 77.4  | 116.2 |
| 141     | 31.6  | 34.1  | 51.1# |

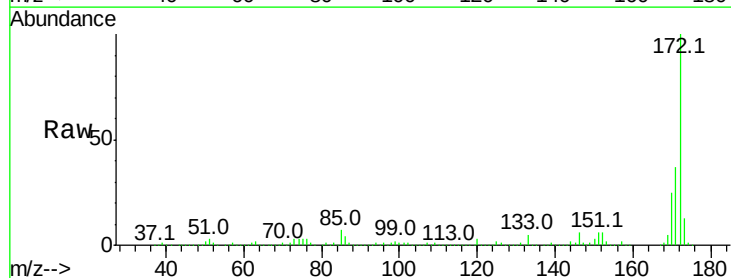


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

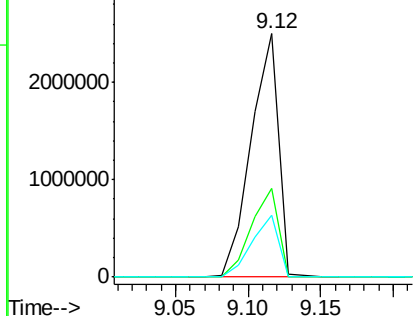
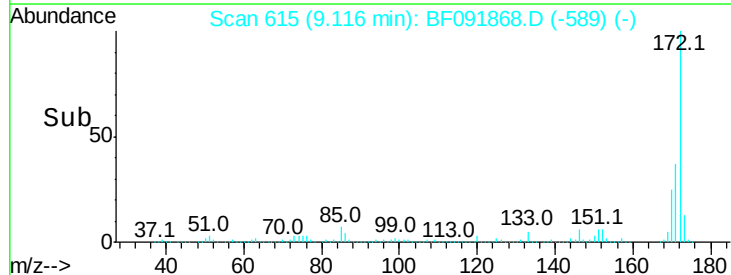


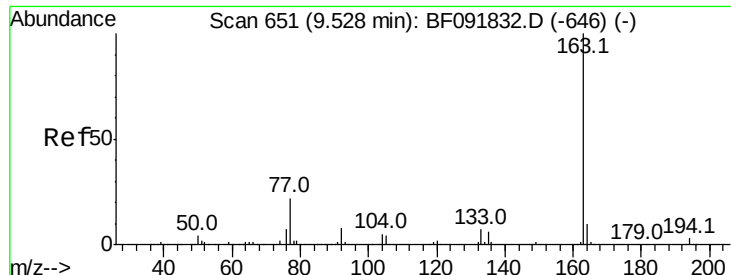
#44  
 2-Fluorobiphenyl  
 Concen: 116.67 ng  
 RT: 9.12 min Scan# 615  
 Delta R.T. 0.00 min  
 Lab File: BF091868.D  
 Acq: 22 Dec 2016 7:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.7  | 29.4  | 44.0  |
| 170     | 25.3  | 20.2  | 30.4  |



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: 5.38 ng

RT: 9.50 min Scan# 649

Delta R.T. -0.02 min

Lab File: BF091868.D

Acq: 22 Dec 2016 7:06

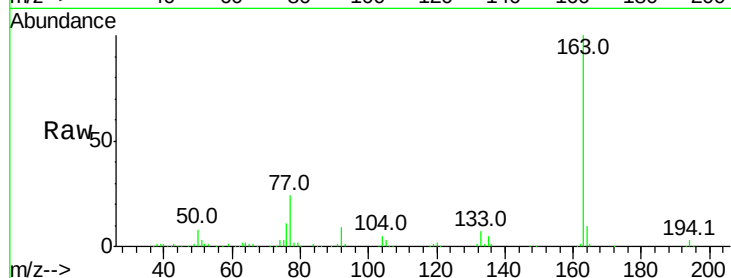
Tot Ion:163 Resp: 206978

Ion Ratio Lower Upper

163 100

194 2.8 3.0 4.4#

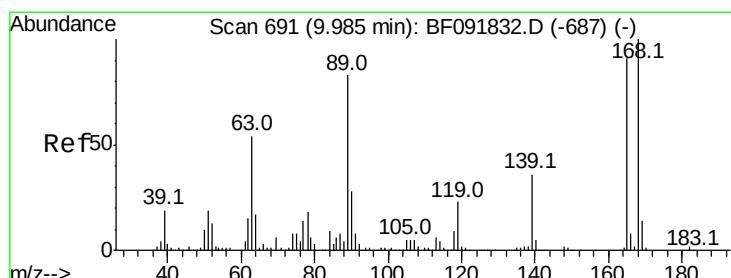
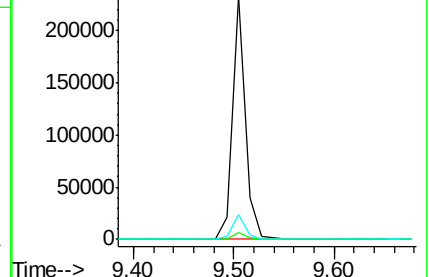
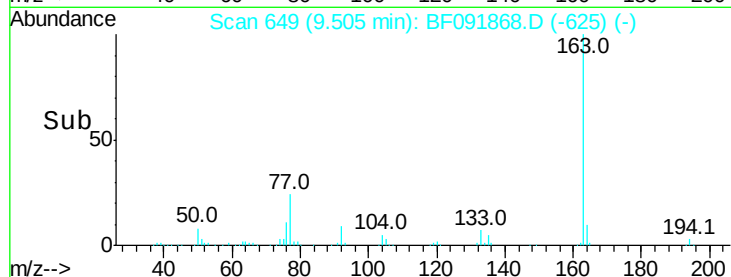
164 10.0 8.0 12.0



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: 7.32 ng

RT: 9.78 min Scan# 673

Delta R.T. -0.21 min

Lab File: BF091868.D

Acq: 22 Dec 2016 7:06

Tgt Ion:165 Resp: 77386

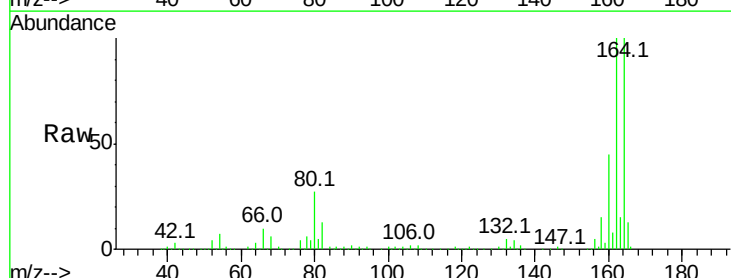
Ion Ratio Lower Upper

165 100

63 0.9 40.2 60.4#

89 0.9 62.5 93.7#

182 0.0 1.8 2.8#

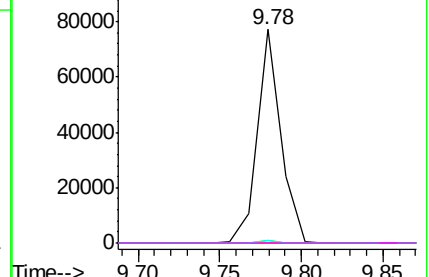
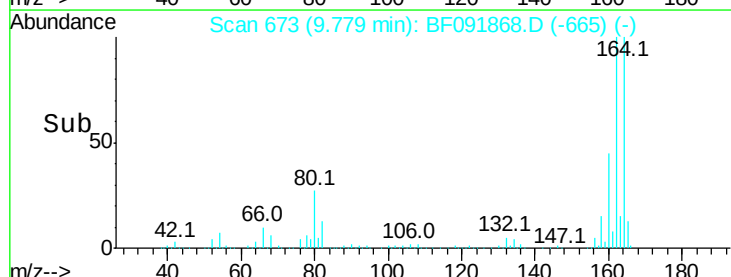


Abundance Ion 165.00 (164.70 to 165.70): E

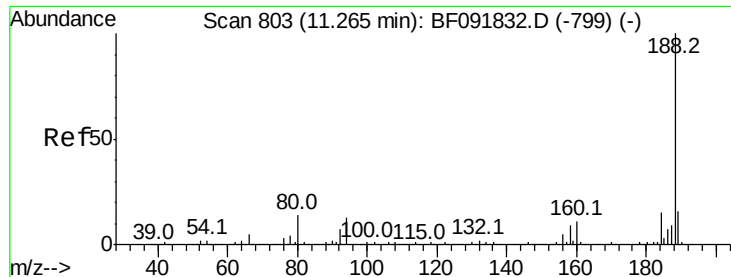
Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



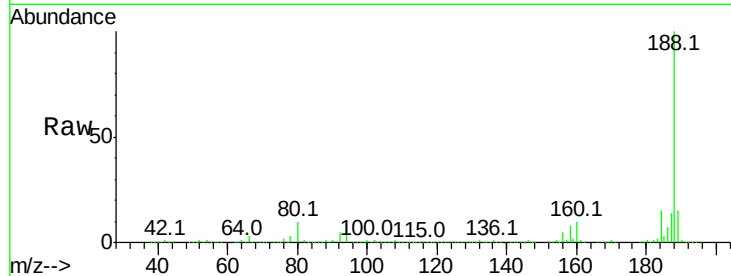




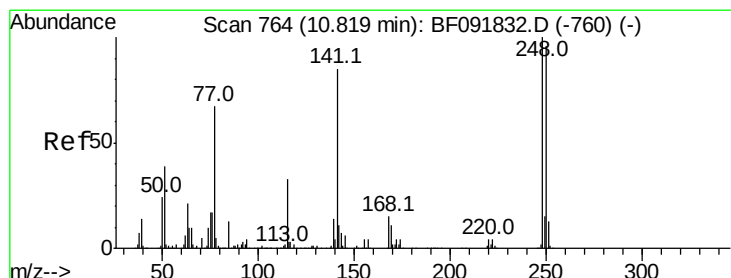
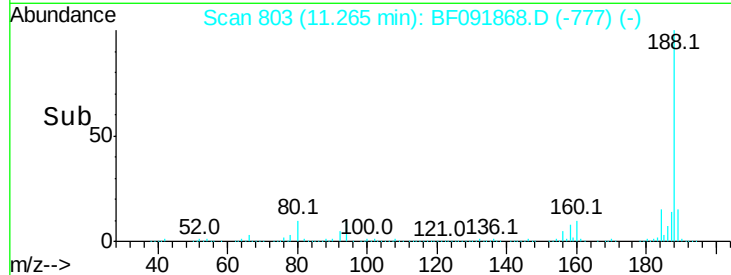
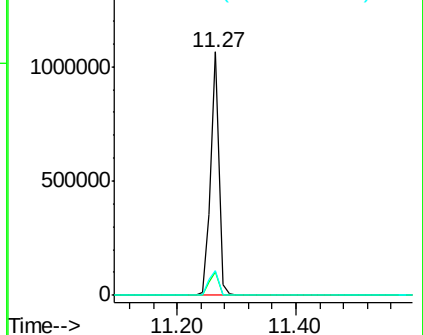
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.27 min Scan# 803  
 Delta R.T. 0.00 min  
 Lab File: BF091868.D  
 Acq: 22 Dec 2016 7:06

Tot Ion:188 Resp: 1036046  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 188 | 100   |       |       |
| 94  | 9.5   | 10.0  | 15.0# |
| 80  | 9.9   | 11.2  | 16.8# |



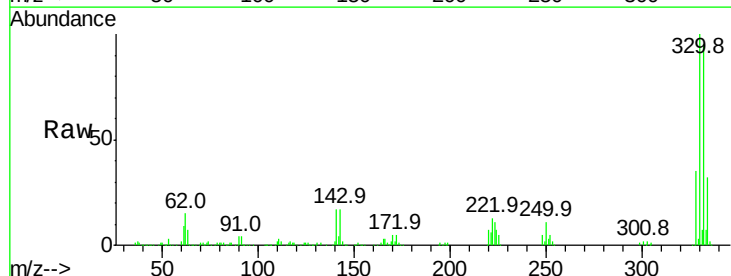
Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BF0  
 Ion 80.00 (79.70 to 80.70): BF0



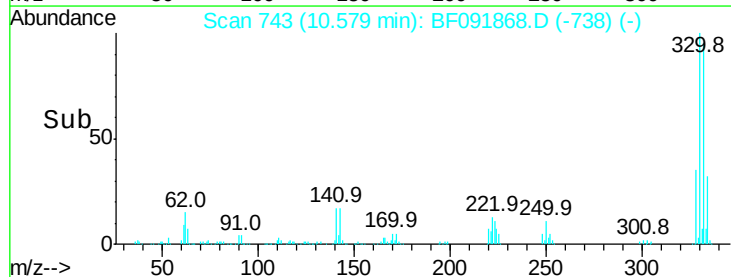
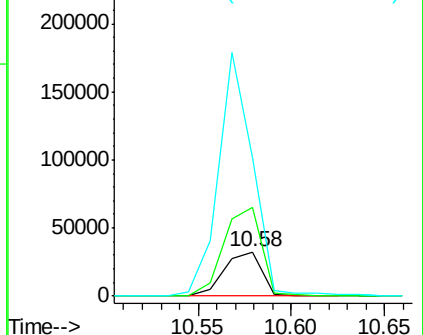
#66  
 4-Bromophenyl-phenylether  
 Concen: 4.23 ng  
 RT: 10.58 min Scan# 743  
 Delta R.T. -0.24 min  
 Lab File: BF091868.D  
 Acq: 22 Dec 2016 7:06

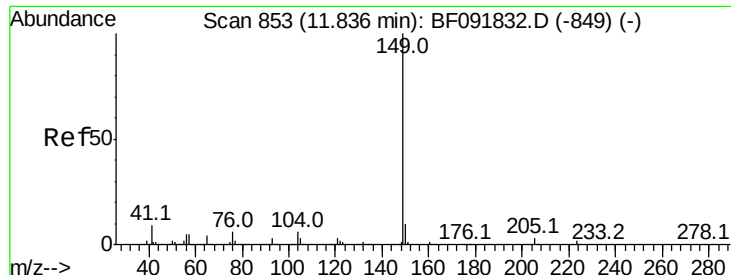
Tgt Ion:248 Resp: 45536  

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 248 | 100   |       |        |
| 250 | 202.9 | 76.9  | 115.3# |
| 141 | 314.7 | 68.2  | 102.4# |



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





#73

Di-n-butylphthalate

Concen: Below Cal

RT: 11.84 min Scan# 853

Delta R.T. 0.00 min

Lab File: BF091868.D

Acq: 22 Dec 2016 7:06

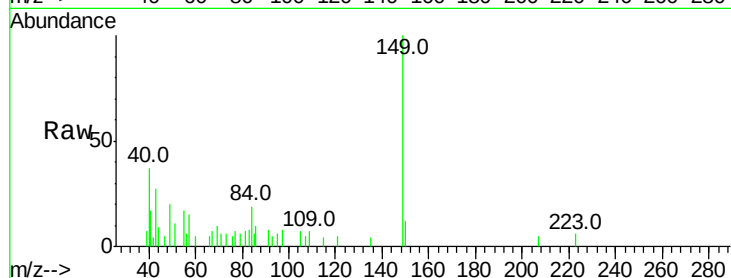
Tot Ion:149 Resp: 7148

Ion Ratio Lower Upper

149 100

150 12.2 8.1 12.1#

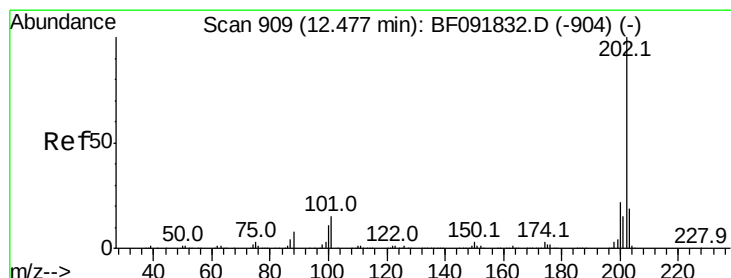
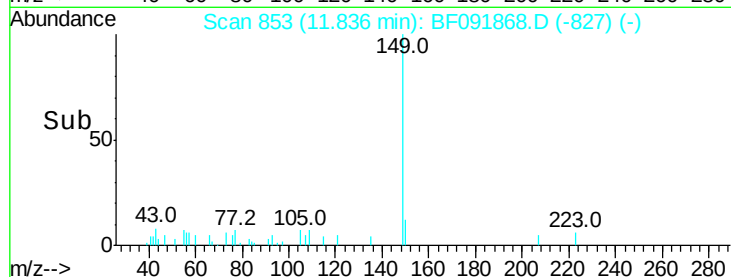
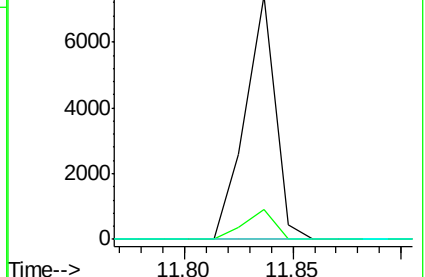
104 0.0 4.6 7.0#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#74

Fluoranthene

Concen: Below Cal

RT: 12.48 min Scan# 909

Delta R.T. 0.00 min

Lab File: BF091868.D

Acq: 22 Dec 2016 7:06

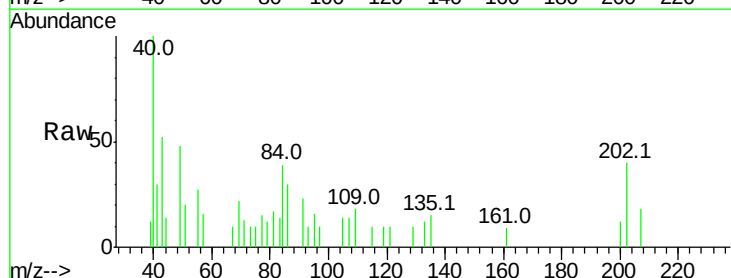
Tgt Ion:202 Resp: 1476

Ion Ratio Lower Upper

202 100

101 0.0 0.0 34.6

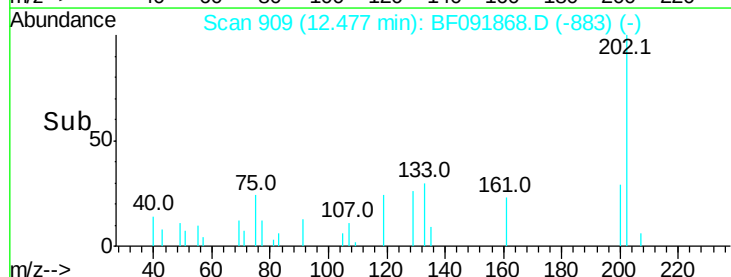
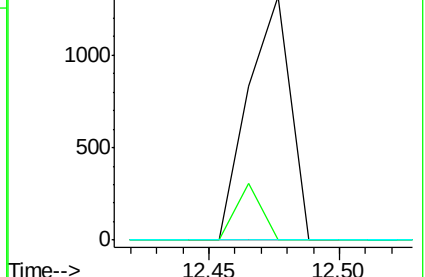
203 0.0 0.0 38.7

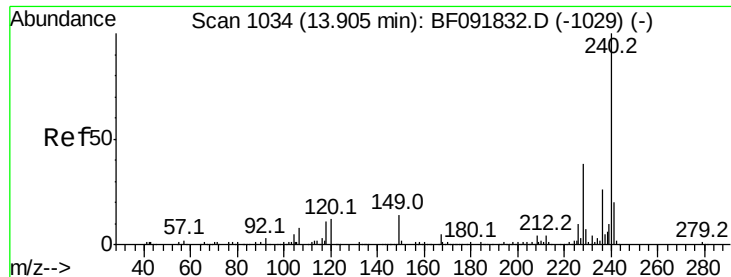


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.89 min Scan# 1033

Delta R.T. -0.01 min

Lab File: BF091868.D

Acq: 22 Dec 2016 7:06

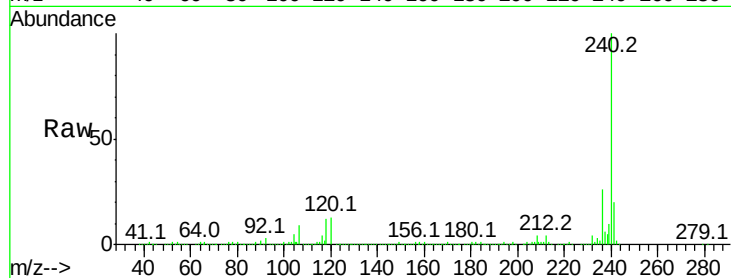
Tot Ion:240 Resp: 785524

Ion Ratio Lower Upper

240 100

120 13.2 12.9 19.3

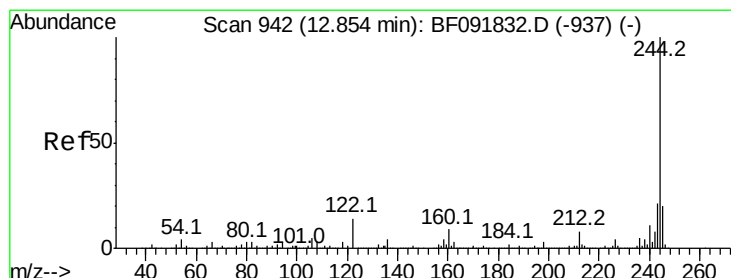
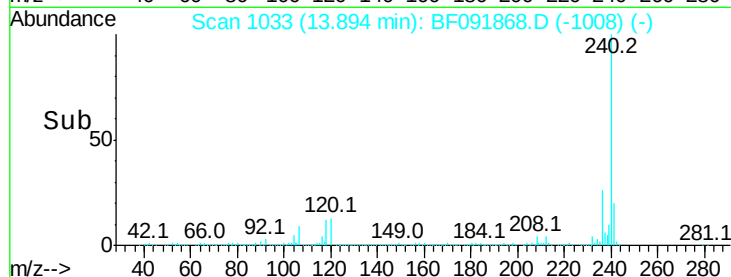
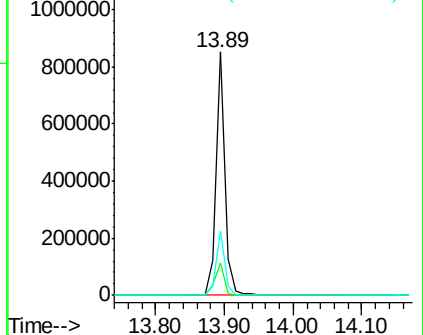
236 26.5 20.9 31.3



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: 72.92 ng

RT: 12.85 min Scan# 942

Delta R.T. 0.00 min

Lab File: BF091868.D

Acq: 22 Dec 2016 7:06

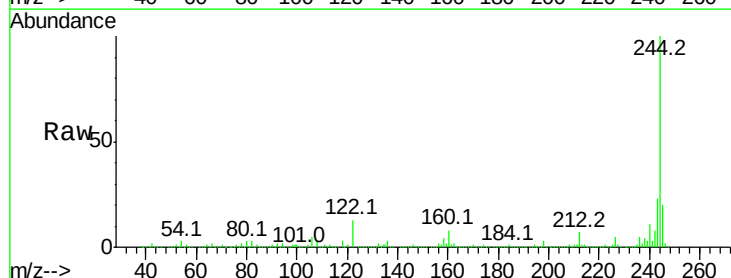
Tgt Ion:244 Resp: 2361905

Ion Ratio Lower Upper

244 100

212 7.4 6.2 9.2

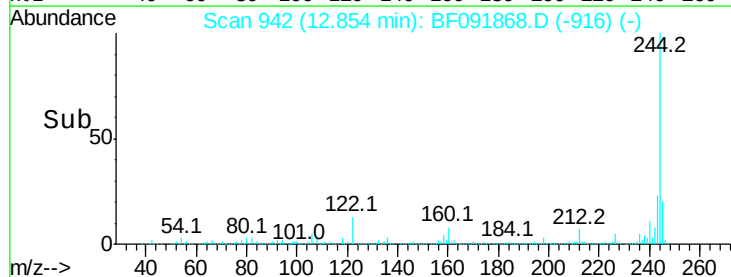
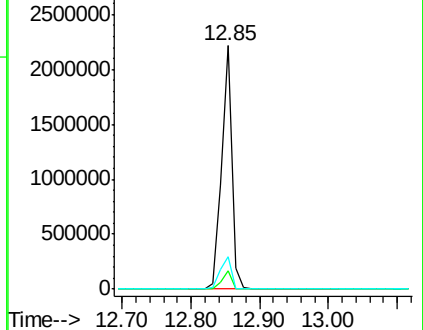
122 13.2 11.4 17.2

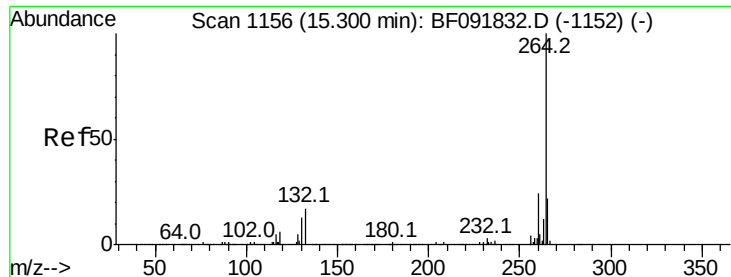


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

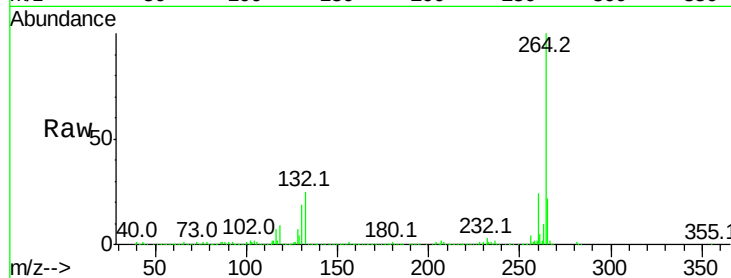
Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.29 min Scan# 1155  
Delta R.T. -0.01 min  
Lab File: BF091868.D  
Acq: 22 Dec 2016 7:06

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.6  | 19.2  | 28.8  |
| 265     | 21.6  | 17.4  | 26.0  |



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

