

Data Path : U:\HPCHEM1\BNA F\DATA\BF012618\  
 Data File : BF102492.D  
 Acq On : 27 Jan 2018 3:27  
 Operator : SJ/JU  
 Sample : PB106042BL  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jan 27 04:51:00 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jan 26 16:18:07 2018  
 Response via : Initial Calibration

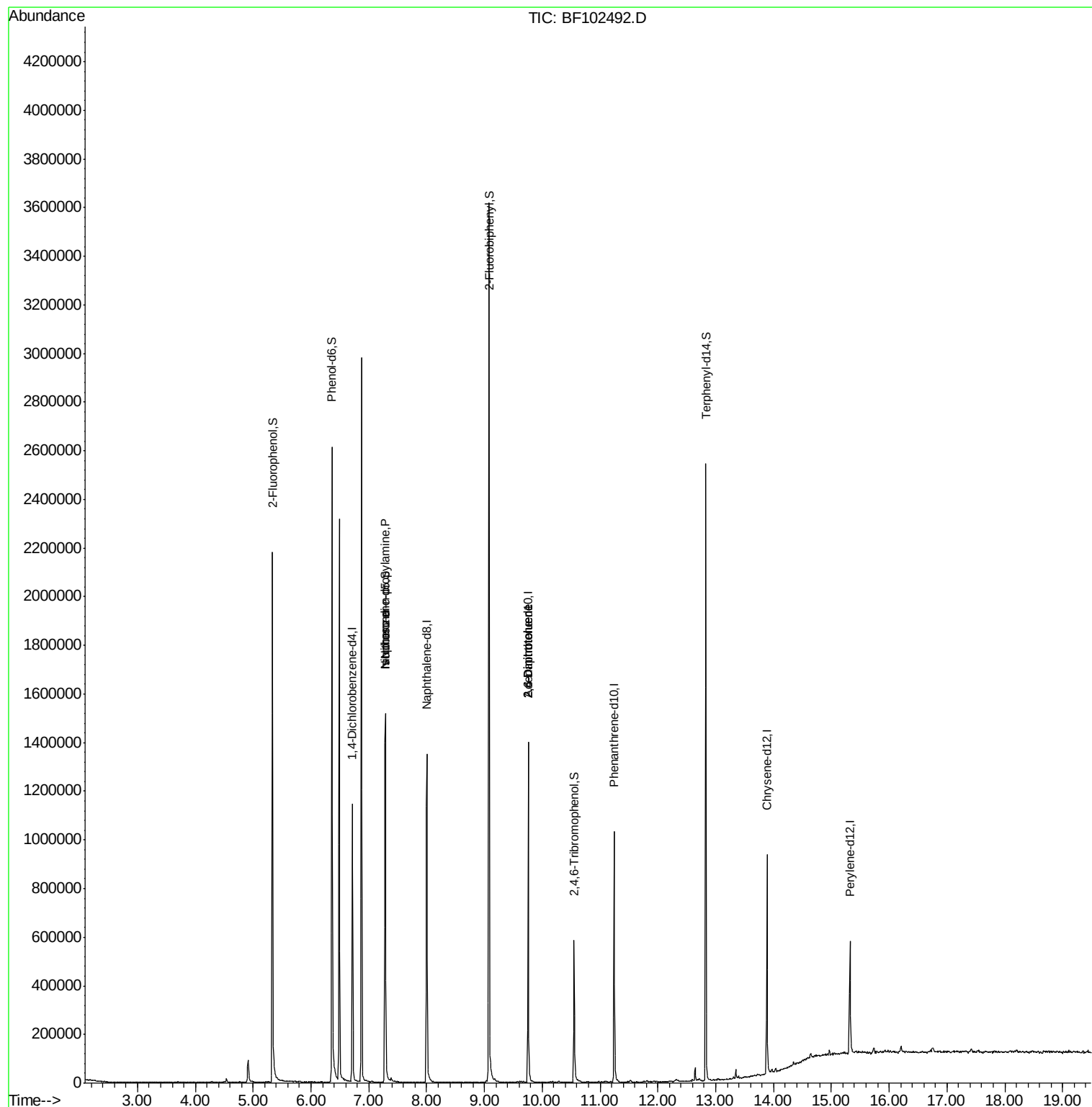
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.72  | 152  | 167671   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.00  | 136  | 684630   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.76  | 164  | 277482   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.25 | 188  | 408579   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 13.89 | 240  | 312607   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.32 | 264  | 220789   | 20.00  | ng    | 0.02     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.33  | 112  | 646398   | 58.45  | ng    | 0.01     |
| 7) Phenol-d6                   | 6.36  | 99   | 779086   | 58.44  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.29  | 82   | 544245   | 45.68  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.55 | 330  | 79976    | 29.09  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.08  | 172  | 1244384  | 65.94  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.83 | 244  | 834661   | 60.19  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.29  | 70   | 70637    | 8.658  | ng    | # 78     |
| 25) Isophorone                 | 7.29  | 82   | 527750   | 24.848 | ng    | # 64     |
| 50) 2,6-Dinitrotoluene         | 9.76  | 165  | 34971    | 7.072  | ng    | # 25     |
| 56) 2,4-Dinitrotoluene         | 9.76  | 165  | 34971    | 5.751  | ng    | # 23     |

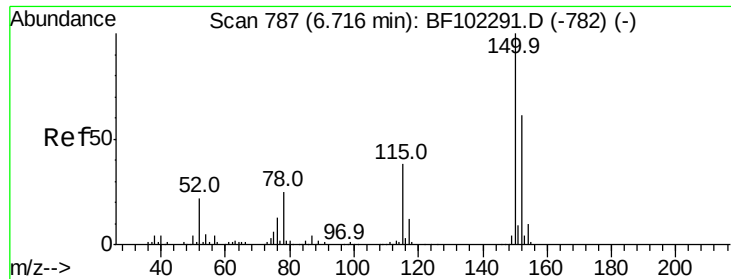
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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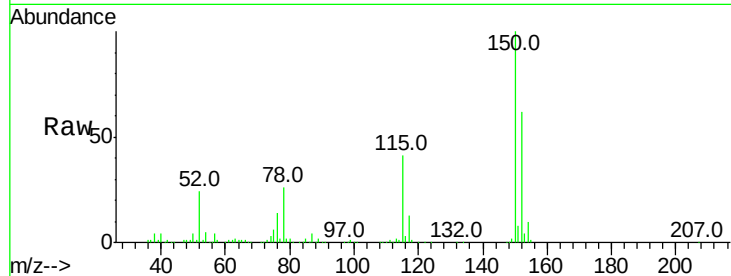


#1

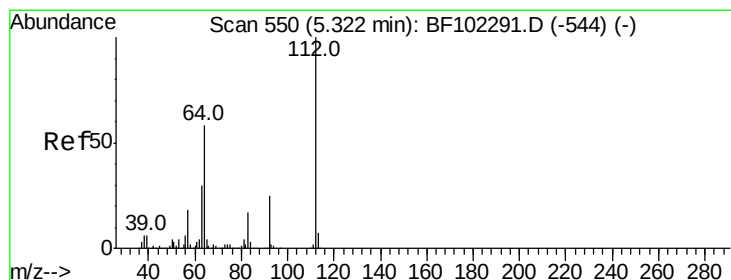
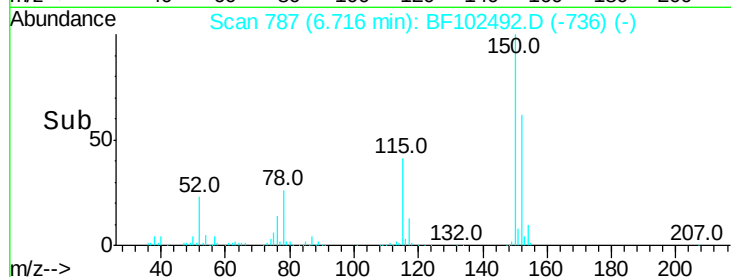
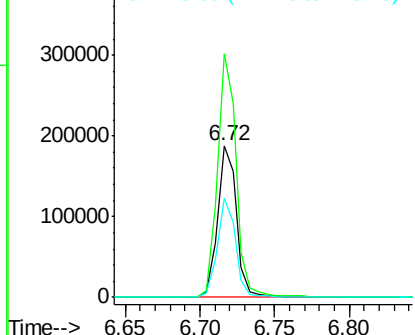
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.72 min Scan# 787  
Delta R.T. 0.00 min  
Lab File: BF102492.D  
Acq: 27 Jan 2018 3:27

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 167671  
Ion Ratio Lower Upper  
152 100  
150 160.5 124.6 186.8  
115 65.4 50.1 75.1



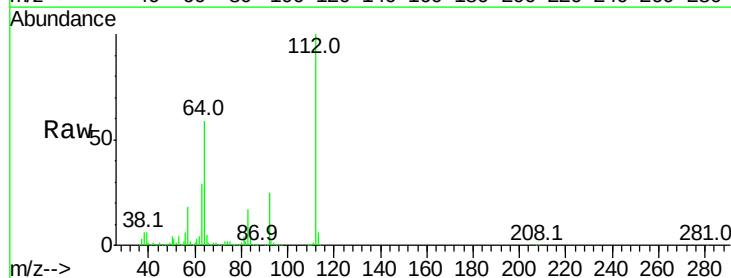
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



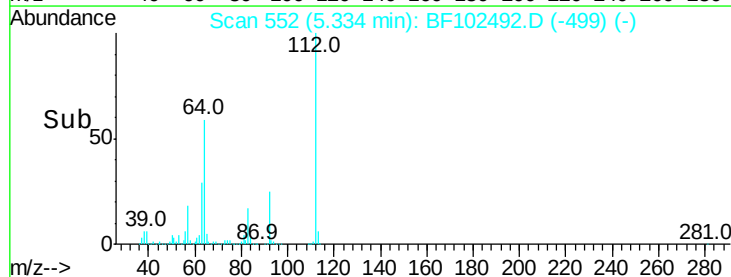
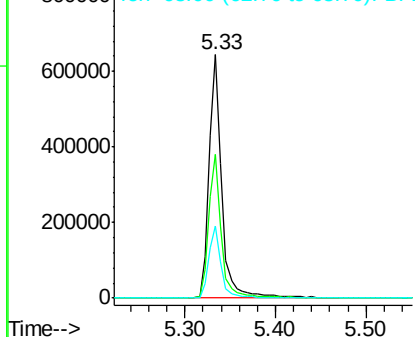
#5

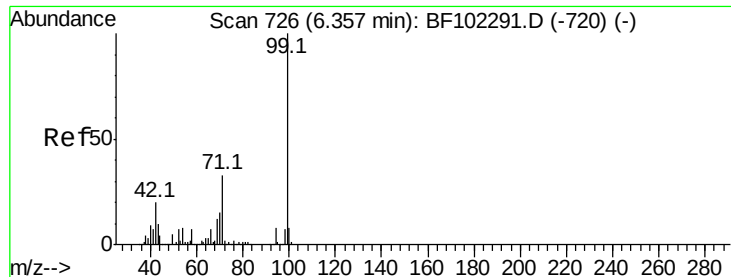
2-Fluorophenol  
Concen: 58.454 ng  
RT: 5.33 min Scan# 552  
Delta R.T. 0.01 min  
Lab File: BF102492.D  
Acq: 27 Jan 2018 3:27

Tgt Ion:112 Resp: 646398  
Ion Ratio Lower Upper  
112 100  
64 59.0 47.9 71.9  
63 29.4 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: 58.439 ng

RT: 6.36 min Scan# 727

Delta R.T. 0.00 min

Lab File: BF102492.D

Acq: 27 Jan 2018 3:27

Instrument :

BNA\_F

ClientSampleId :

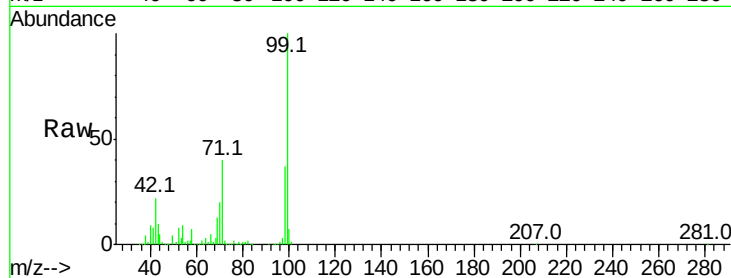
Tot Ion: 99 Resp: 779086

Ion Ratio Lower Upper

99 100

42 22.3 14.5 21.7#

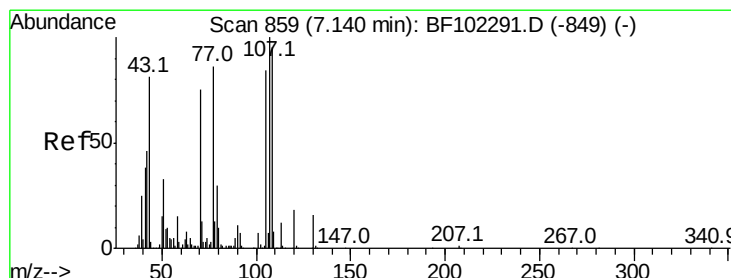
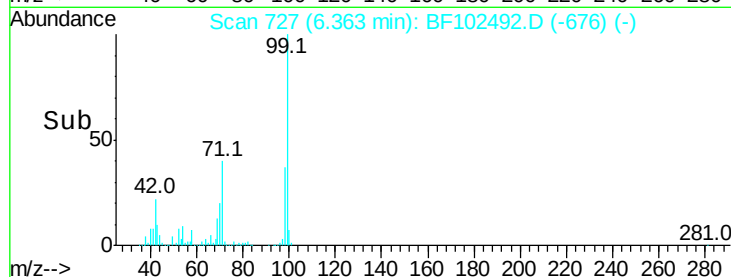
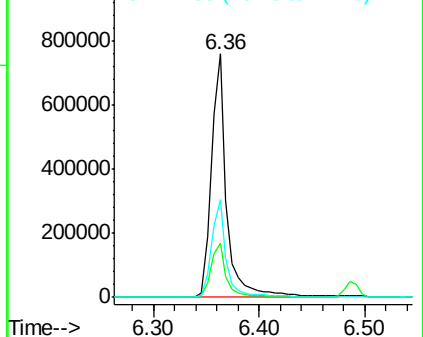
71 40.3 25.4 38.0#



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



#19

n-Nitroso-di-n-propylamine

Concen: 8.658 ng

RT: 7.29 min Scan# 884

Delta R.T. 0.15 min

Lab File: BF102492.D

Acq: 27 Jan 2018 3:27

Tgt Ion: 70 Resp: 70637

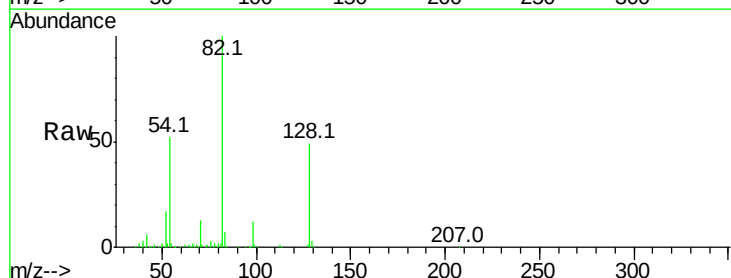
Ion Ratio Lower Upper

70 100

42 48.3 47.5 71.3

101 0.0 7.4 11.2#

130 2.2 16.6 25.0#

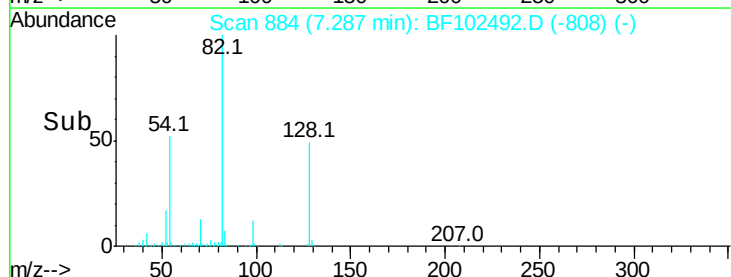
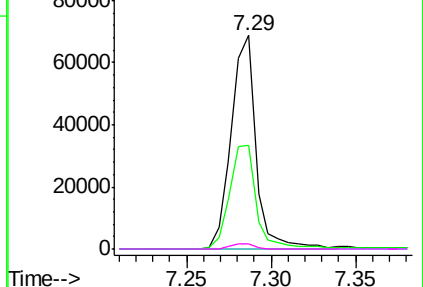


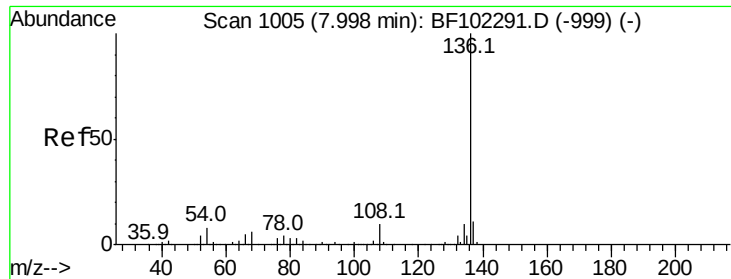
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

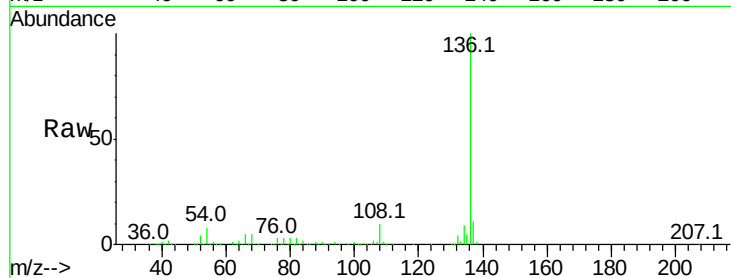




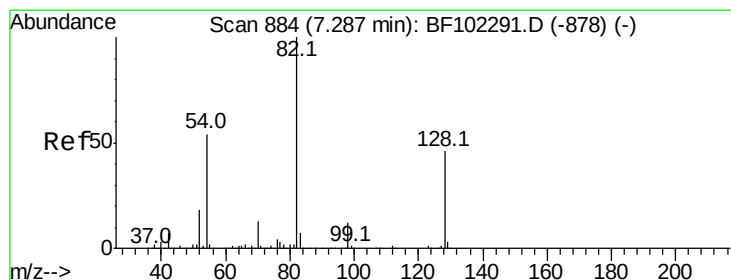
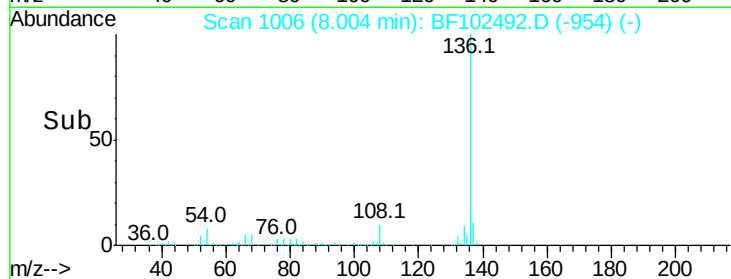
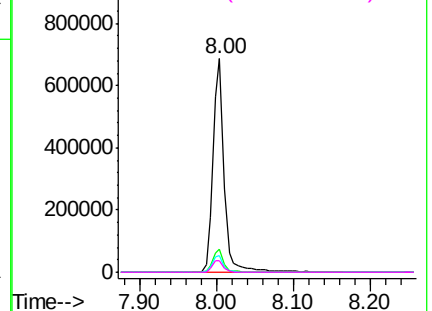
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.00 min Scan# 1006  
Delta R.T. 0.01 min  
Lab File: BF102492.D  
Acq: 27 Jan 2018 3:27

Instrument :  
BNA\_F  
ClientSampled :

|             |       |        |  |
|-------------|-------|--------|--|
| Tot Ion:136 | Resp: | 684630 |  |
| Ion Ratio   | Lower | Upper  |  |
| 136 100     |       |        |  |
| 137 11.0    | 8.9   | 13.3   |  |
| 54 7.9      | 6.6   | 9.8    |  |
| 68 5.4      | 5.0   | 7.4    |  |

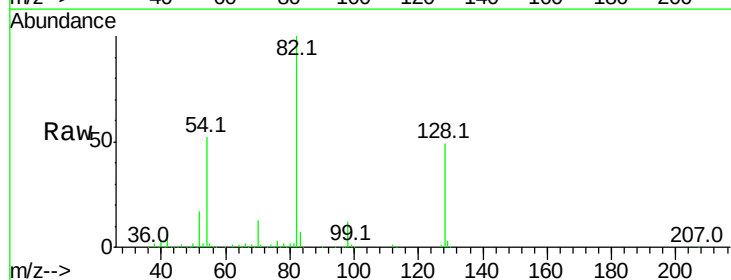


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

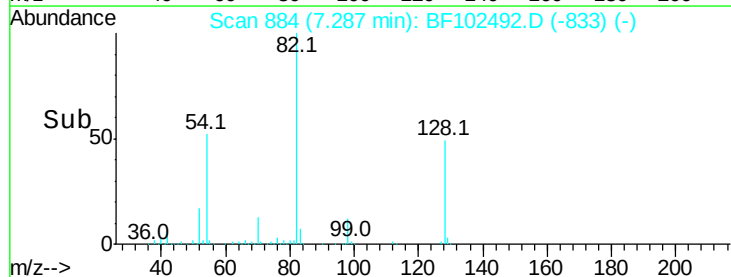
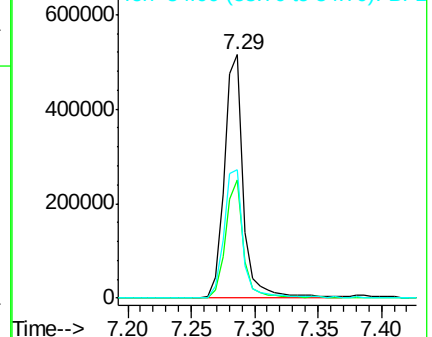


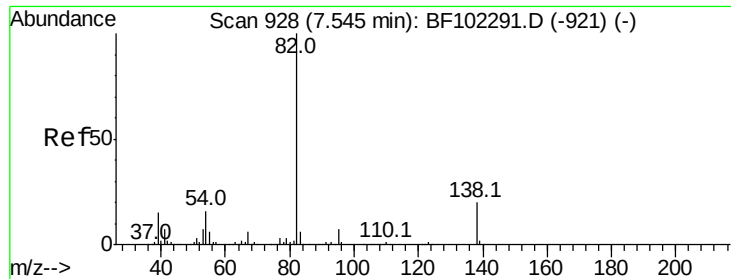
#23  
Nitrobenzene-d5  
Concen: 45.683 ng  
RT: 7.29 min Scan# 884  
Delta R.T. 0.00 min  
Lab File: BF102492.D  
Acq: 27 Jan 2018 3:27

|             |              |
|-------------|--------------|
| Tgt Ion: 82 | Resp: 544245 |
| Ion Ratio   | Lower Upper  |
| 82 100      |              |
| 128 48.5    | 36.1 54.1    |
| 54 52.5     | 41.4 62.2    |



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





#25

Isophorone

Concen: 24.848 ng

RT: 7.29 min Scan# 884

Delta R.T. -0.26 min

Lab File: BF102492.D

Acq: 27 Jan 2018 3:27

Instrument :

BNA\_F

ClientSampleId :

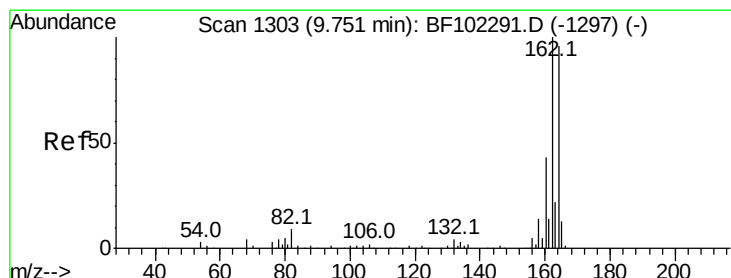
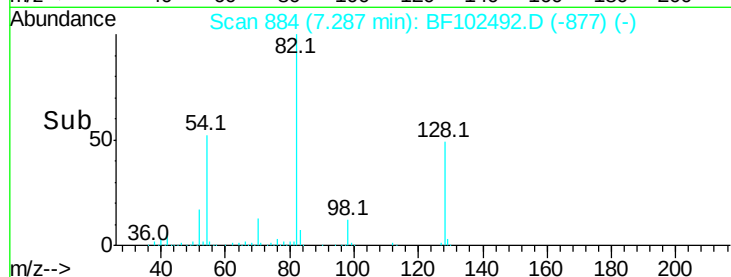
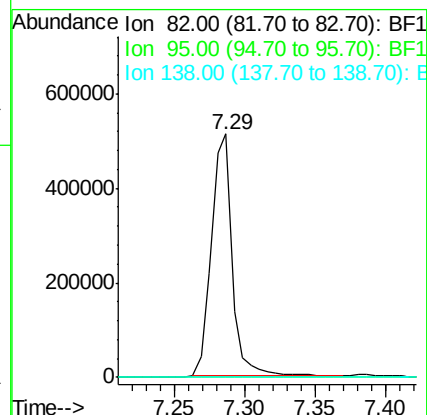
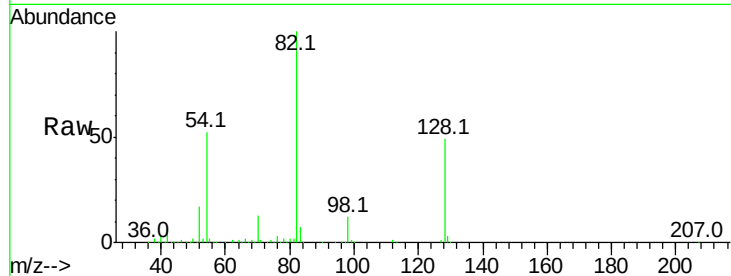
Tot Ion: 82 Resp: 527750

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.76 min Scan# 1304

Delta R.T. 0.00 min

Lab File: BF102492.D

Acq: 27 Jan 2018 3:27

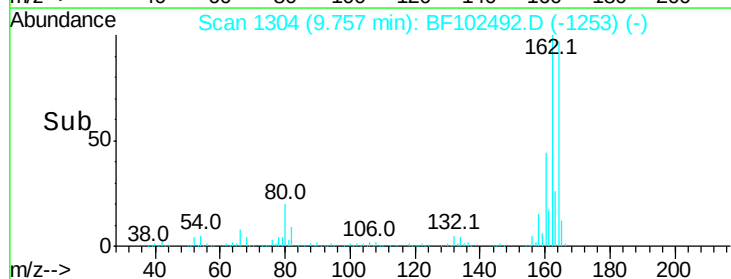
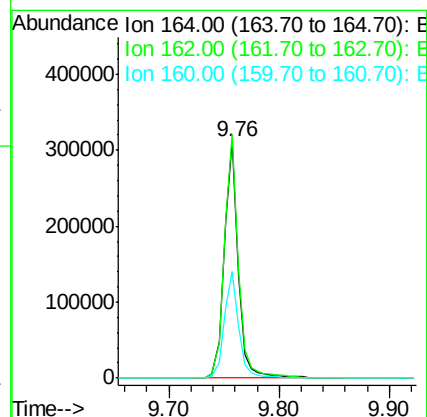
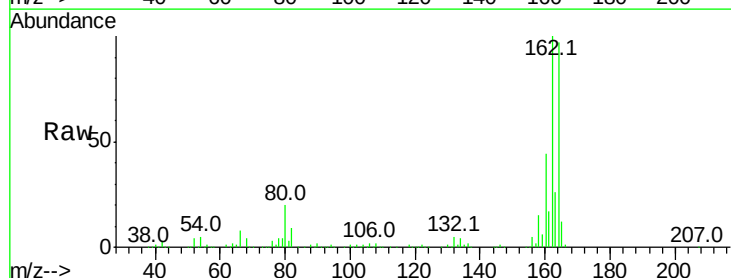
Tgt Ion:164 Resp: 277482

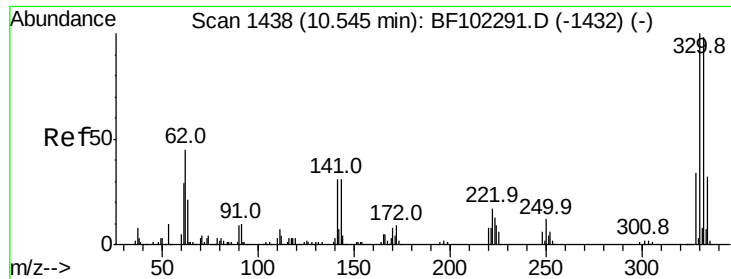
Ion Ratio Lower Upper

164 100

162 102.8 86.1 129.1

160 45.3 38.3 57.5

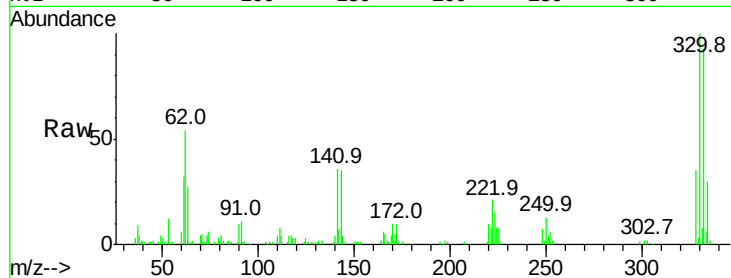




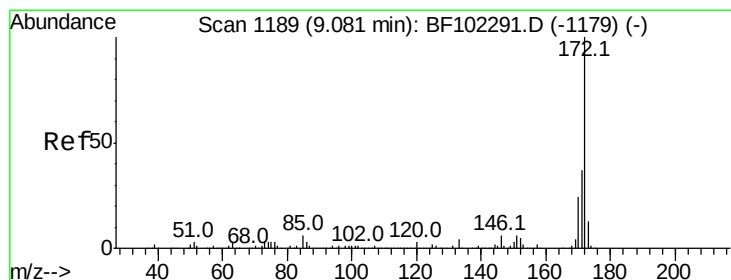
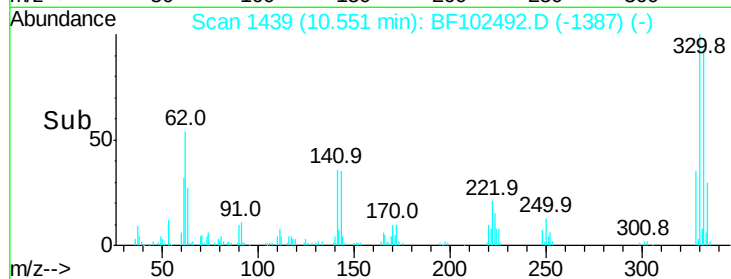
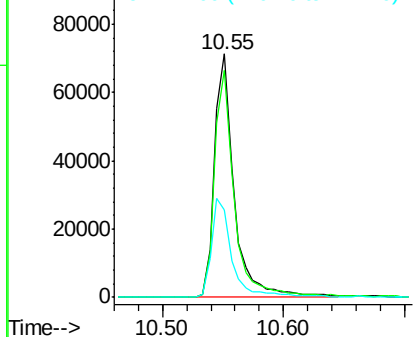
#41  
 2,4,6-Tribromophenol  
 Concen: 29.088 ng  
 RT: 10.55 min Scan# 1439  
 Delta R.T. 0.01 min  
 Lab File: BF102492.D  
 Acq: 27 Jan 2018 3:27

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 79976  
 Ion Ratio Lower Upper  
 330 100  
 332 94.4 77.0 115.6  
 141 42.1 29.9 44.9

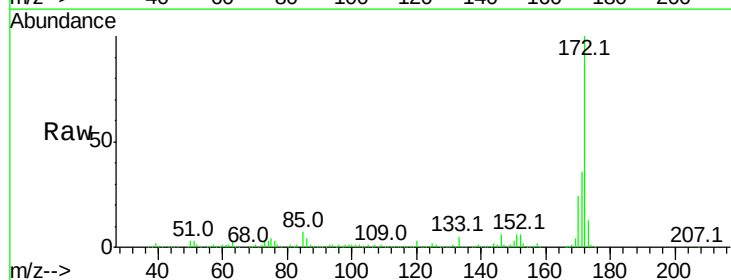


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

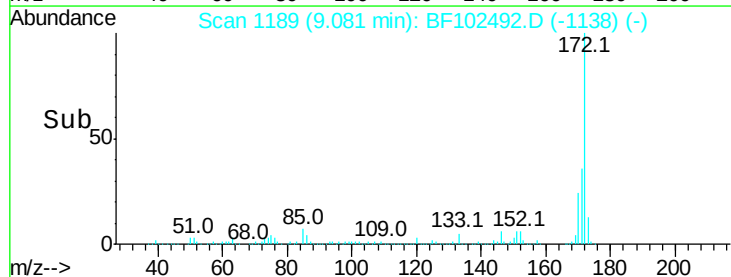
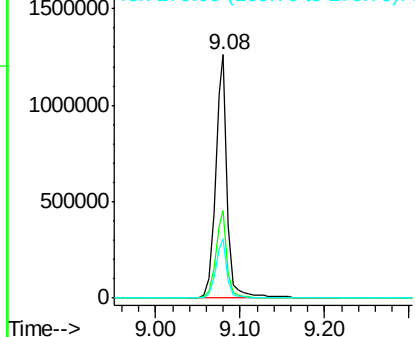


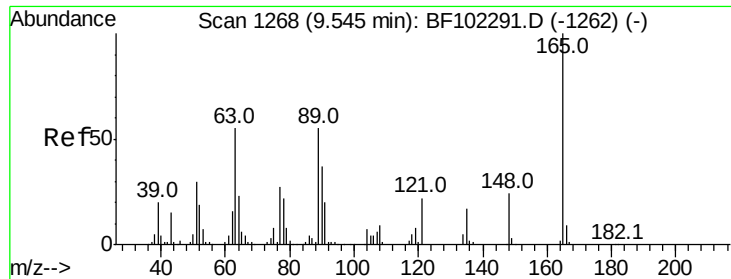
#44  
 2-Fluorobiphenyl  
 Concen: 65.939 ng  
 RT: 9.08 min Scan# 1189  
 Delta R.T. -0.00 min  
 Lab File: BF102492.D  
 Acq: 27 Jan 2018 3:27

Tgt Ion:172 Resp: 1244384  
 Ion Ratio Lower Upper  
 172 100  
 171 36.0 29.7 44.5  
 170 24.2 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

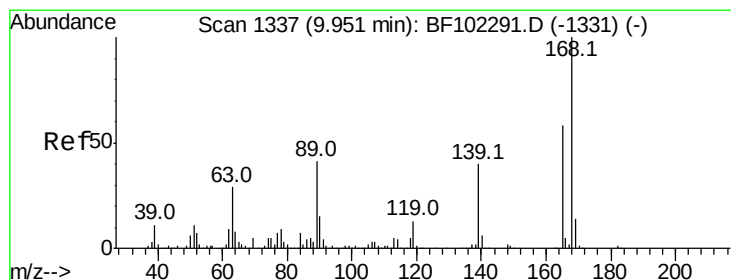
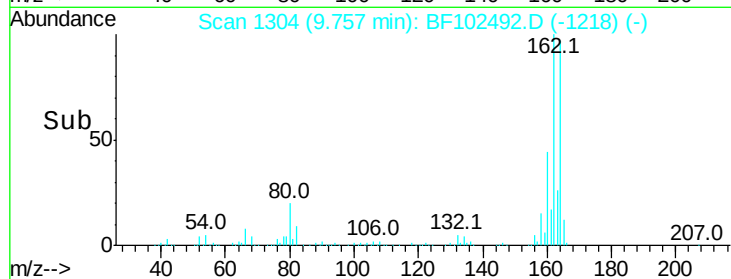
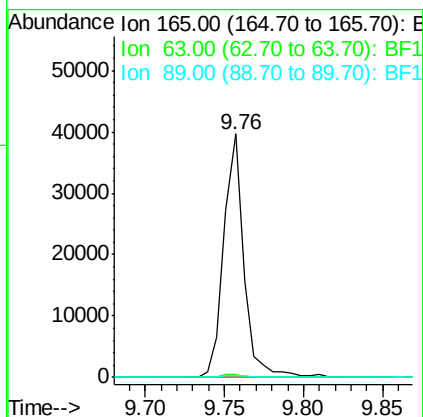
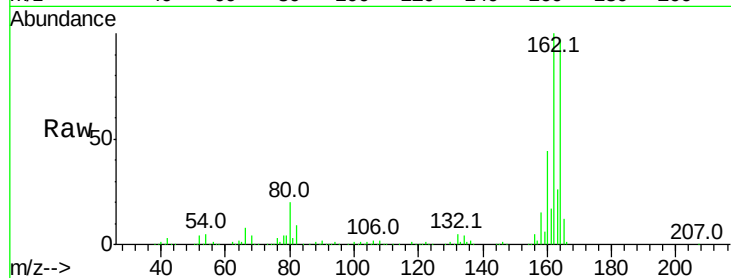




#50  
 2,6-Dinitrotoluene  
 Concen: 7.072 ng  
 RT: 9.76 min Scan# 1304  
 Delta R.T. 0.21 min  
 Lab File: BF102492.D  
 Acq: 27 Jan 2018 3:27

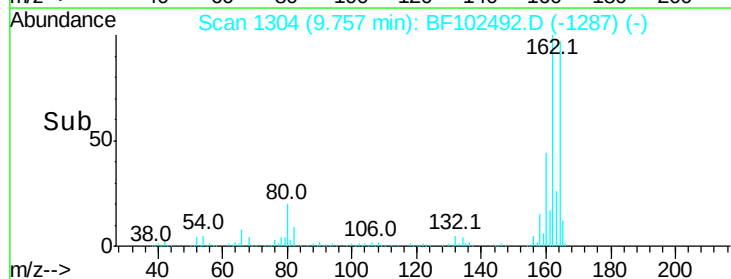
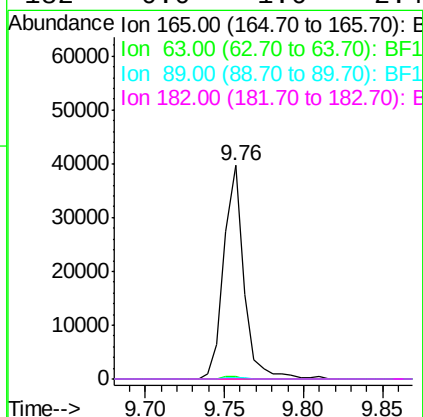
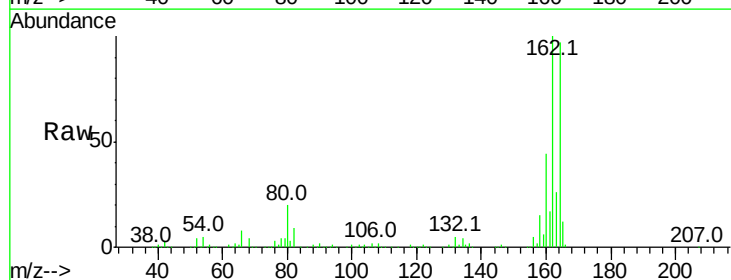
Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.3   | 44.7  | 67.1# |
| 89      | 0.8   | 44.0  | 66.0# |

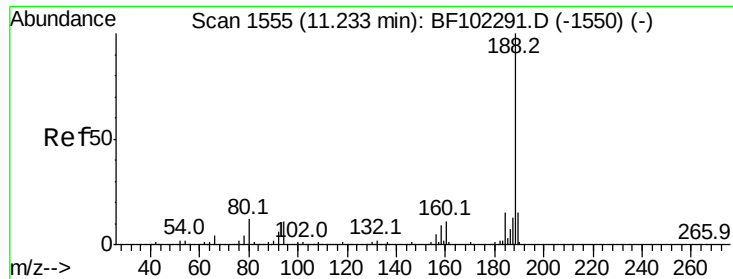


#56  
 2,4-Dinitrotoluene  
 Concen: 5.751 ng  
 RT: 9.76 min Scan# 1304  
 Delta R.T. -0.20 min  
 Lab File: BF102492.D  
 Acq: 27 Jan 2018 3:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.3   | 36.4  | 54.6# |
| 89      | 0.8   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |







#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.25 min Scan# 1557

Delta R.T. 0.01 min

Lab File: BF102492.D

Acq: 27 Jan 2018 3:27

Instrument :

BNA\_F

ClientSampled :

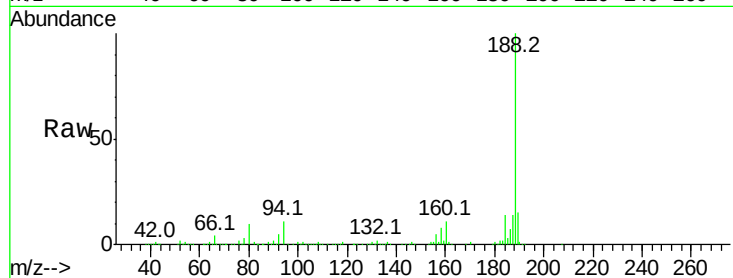
Tot Ion:188 Resp: 408579

Ion Ratio Lower Upper

188 100

94 10.7 8.5 12.7

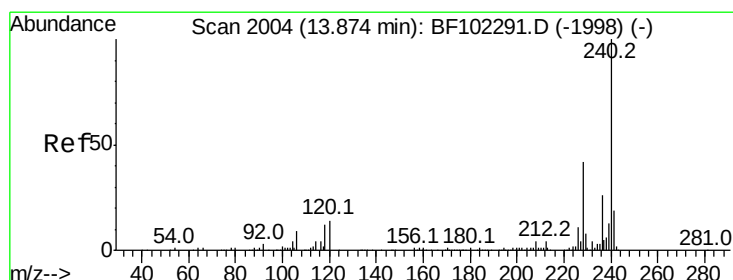
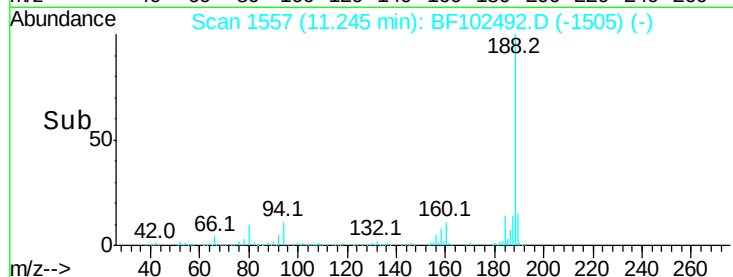
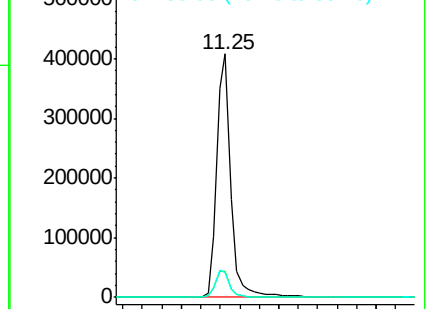
80 10.4 9.2 13.8



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



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.89 min Scan# 2006

Delta R.T. 0.01 min

Lab File: BF102492.D

Acq: 27 Jan 2018 3:27

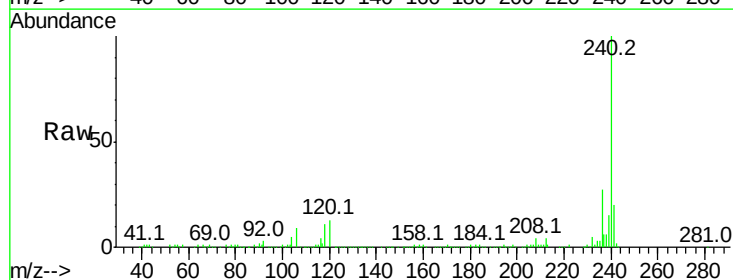
Tgt Ion:240 Resp: 312607

Ion Ratio Lower Upper

240 100

120 13.2 9.5 14.3

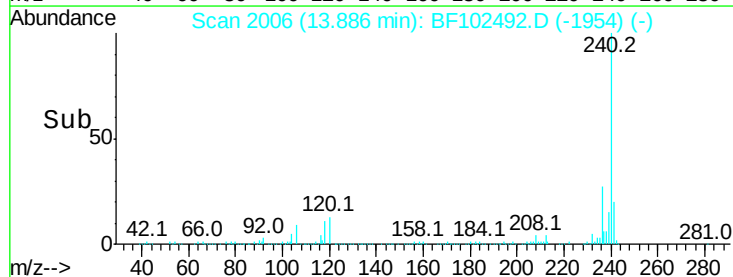
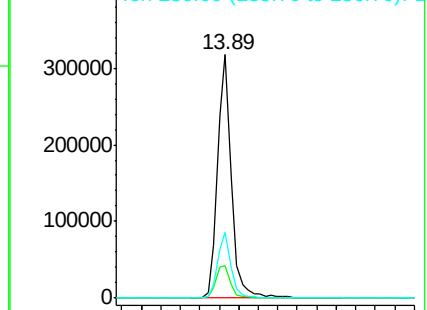
236 26.7 20.7 31.1

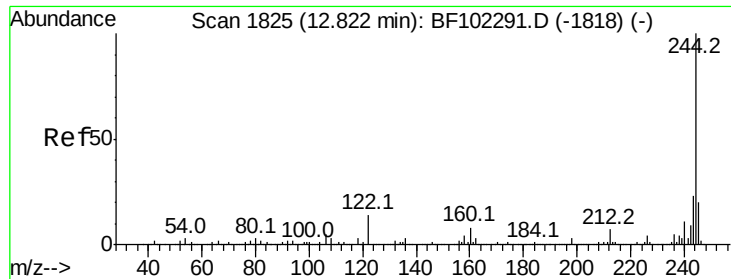


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 60.191 ng

RT: 12.83 min Scan# 1826

Delta R.T. 0.00 min

Lab File: BF102492.D

Acq: 27 Jan 2018 3:27

Instrument :

BNA\_F

ClientSampled :

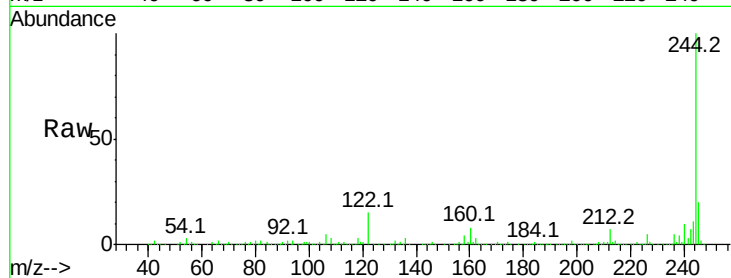
Tot Ion:244 Resp: 834661

Ion Ratio Lower Upper

244 100

212 7.1 5.4 8.0

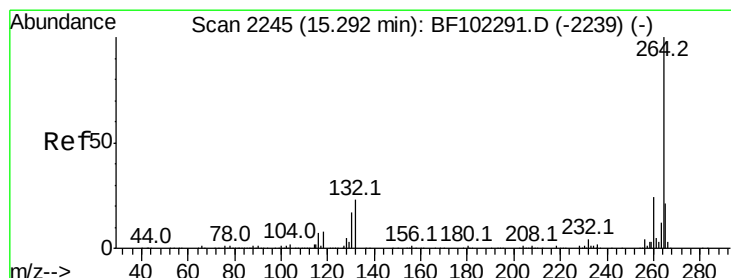
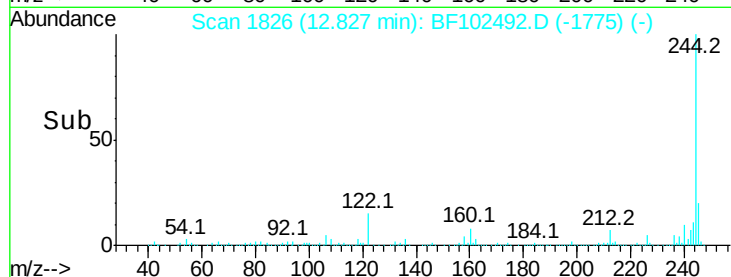
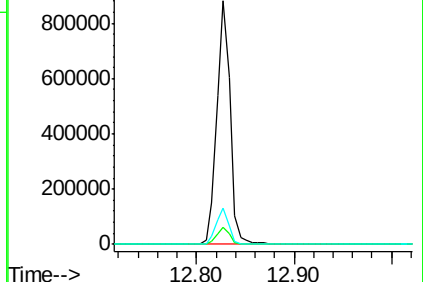
122 14.7 11.0 16.4



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.32 min Scan# 2250

Delta R.T. 0.02 min

Lab File: BF102492.D

Acq: 27 Jan 2018 3:27

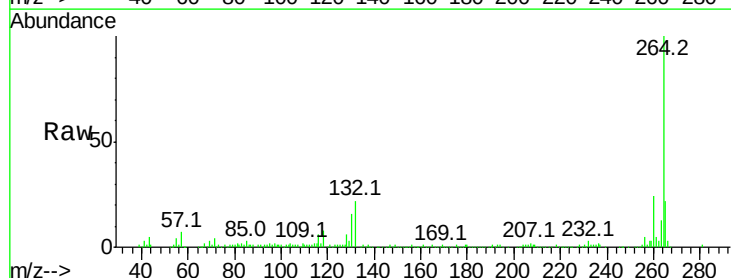
Tgt Ion:264 Resp: 220789

Ion Ratio Lower Upper

264 100

260 24.5 19.2 28.8

265 21.8 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

