

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020718\  
 Data File : BF102837.D  
 Acq On : 8 Feb 2018 1:43  
 Operator : SJ/JU  
 Sample : J1473-33 2X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Feb 08 06:30:24 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 05 12:44:16 2018  
 Response via : Initial Calibration

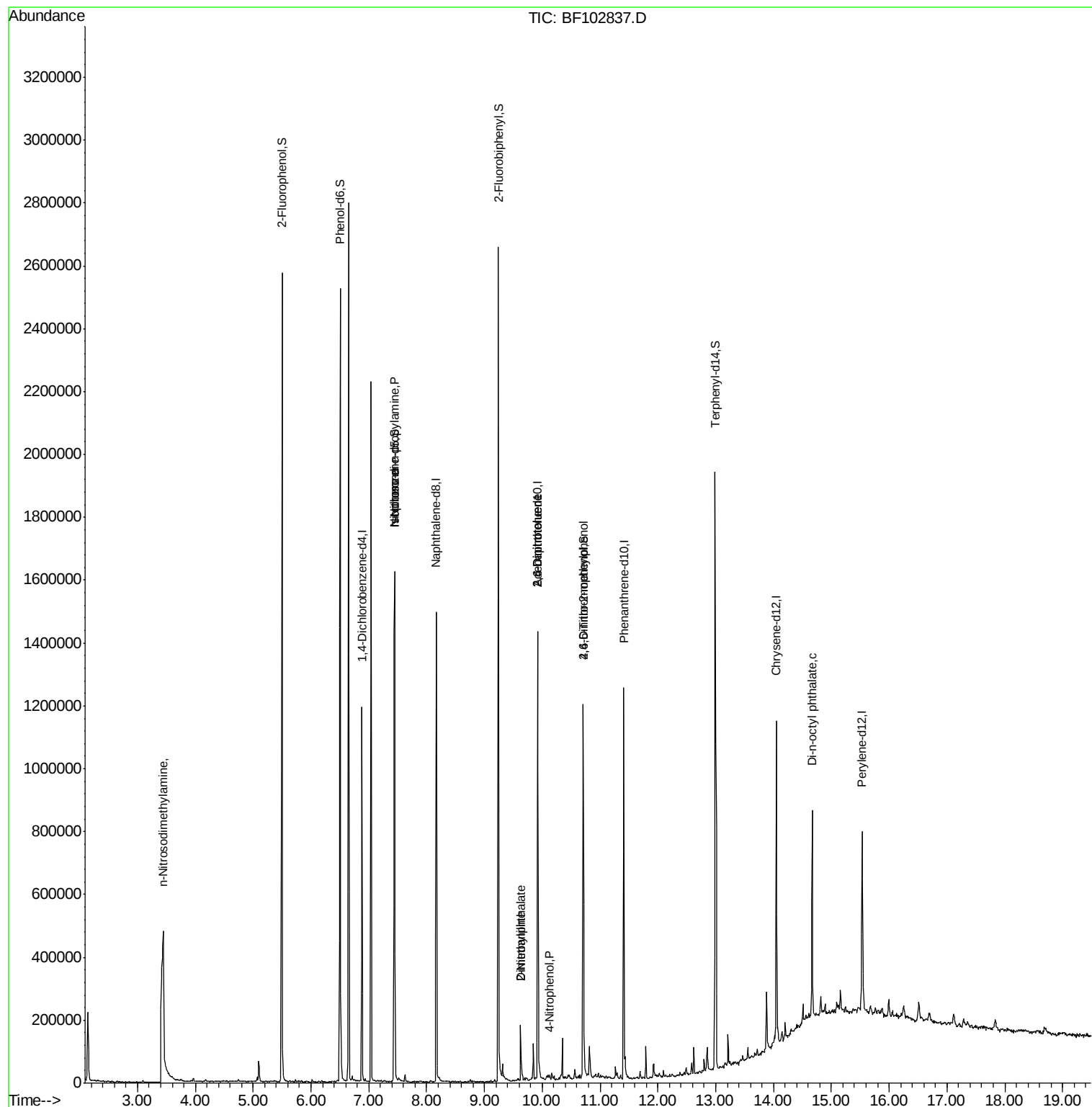
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.89  | 152  | 178268   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.17  | 136  | 703104   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.92  | 164  | 280985   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.41 | 188  | 422332   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12               | 14.05 | 240  | 338035   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12               | 15.53 | 264  | 253794   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.50  | 112  | 696229   | 59.31 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.50  | 99   | 813249   | 57.54 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.45  | 82   | 487903   | 48.14 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.71 | 330  | 130996   | 57.92 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.24  | 172  | 818441   | 48.33 | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.99 | 244  | 570541   | 39.96 | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       |          |
| 4) n-Nitrosodimethylamine      | 3.45  | 42   | 28063    | 4.09  | ng    | # 1      |
| 19) n-Nitroso-di-n-propylamine | 7.45  | 70   | 64825    | 6.96  | ng    | # 78     |
| 25) Isophorone                 | 7.45  | 82   | 487894   | 20.91 | ng    | # 64     |
| 47) 2-Nitroaniline             | 9.63  | 65   | 606      | 3.57  | ng    | # 1      |
| 49) Dimethylphthalate          | 9.63  | 163  | 75519    | 3.45  | ng    | 99       |
| 50) 2,6-Dinitrotoluene         | 9.92  | 165  | 35266    | 8.46  | ng    | # 26     |
| 55) 4-Nitrophenol              | 10.12 | 139  | 696      | 4.18  | ng    | # 9      |
| 56) 2,4-Dinitrotoluene         | 9.92  | 165  | 35266    | 8.98  | ng    | # 23     |
| 64) 4,6-Dinitro-2-methylphenol | 10.71 | 198  | 277      | 8.94  | ng    | # 1      |
| 84) Di-n-octyl phthalate       | 14.67 | 149  | 56409    | 2.31  | ng    | # 42     |

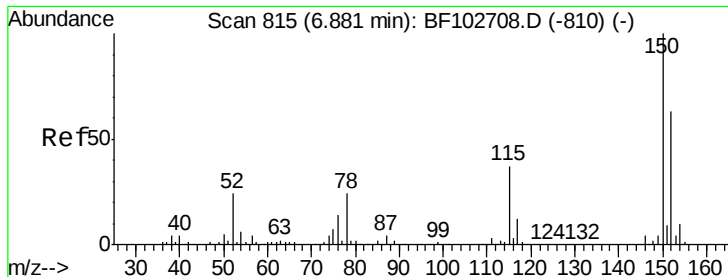
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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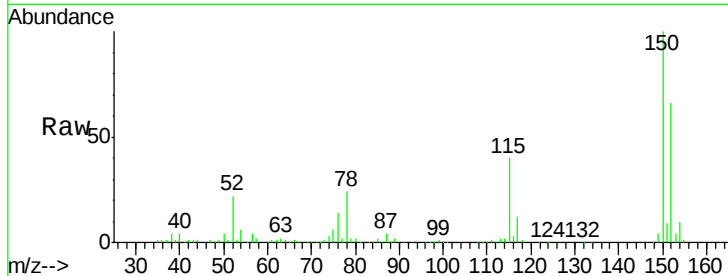


#1

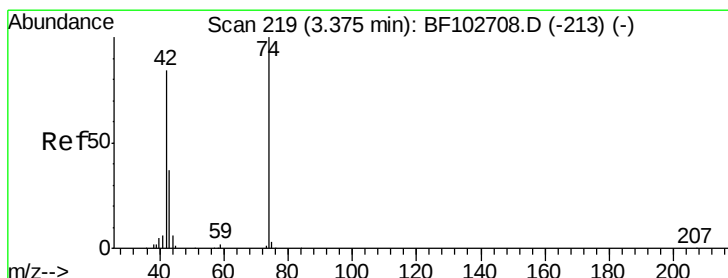
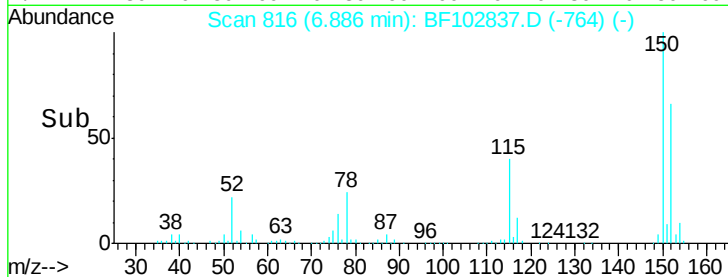
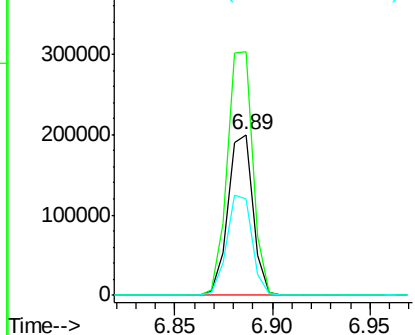
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.89 min Scan# 816  
Delta R.T. 0.01 min  
Lab File: BF102837.D  
Acq: 8 Feb 2018 1:43

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 151.6 | 124.6 | 186.8 |
| 115     | 60.4  | 50.1  | 75.1  |



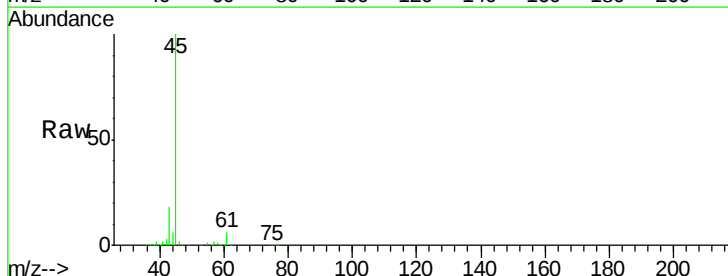
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



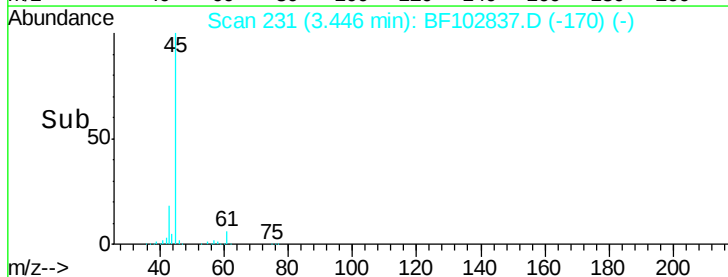
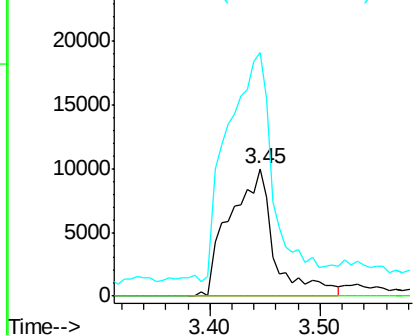
#4

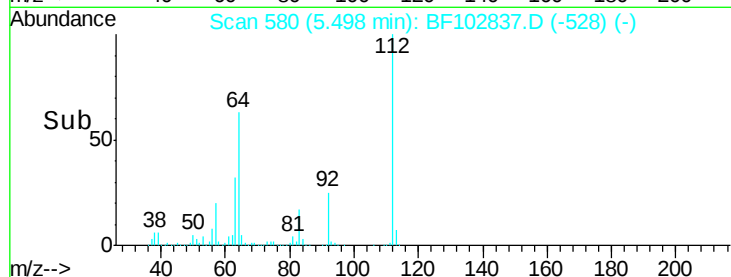
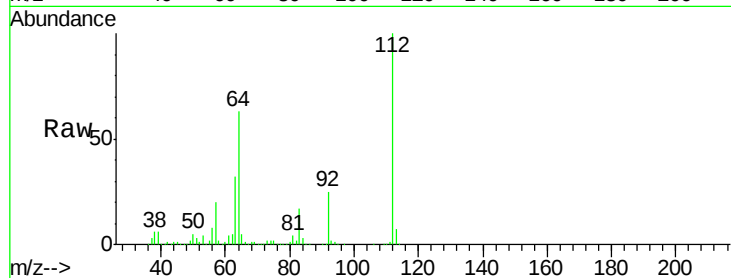
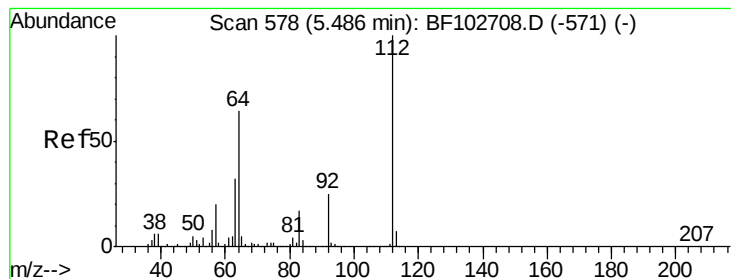
n-Nitrosodimethylamine  
Concen: 4.09 ng  
RT: 3.45 min Scan# 231  
Delta R.T. 0.06 min  
Lab File: BF102837.D  
Acq: 8 Feb 2018 1:43

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 42      | 100   |       |        |
| 74      | 0.0   | 104.9 | 157.3# |
| 44      | 191.5 | 6.9   | 10.3#  |



Abundance Ion 42.00 (41.70 to 42.70): BF1  
Ion 74.00 (73.70 to 74.70): BF1  
Ion 44.00 (43.70 to 44.70): BF1





#5

2-Fluorophenol

Concen: 59.31 ng

RT: 5.50 min Scan# 580

Delta R.T. 0.01 min

Lab File: BF102837.D

Acq: 8 Feb 2018 1:43

Instrument :

BNA\_F

ClientSampled :

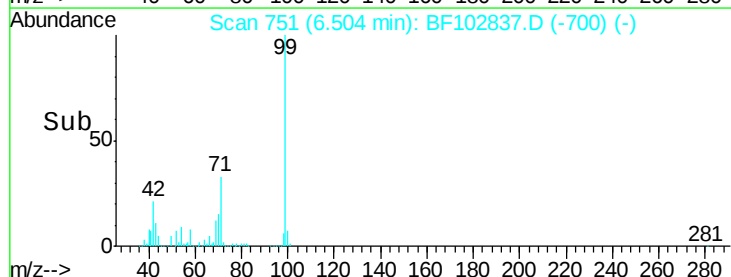
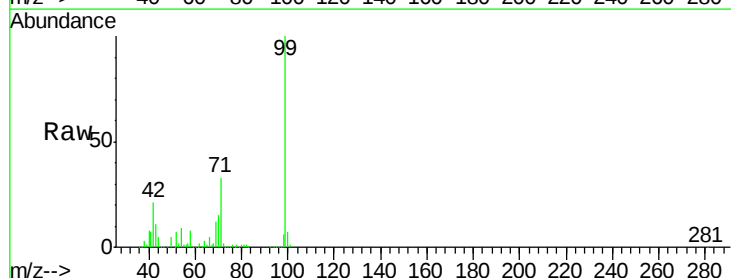
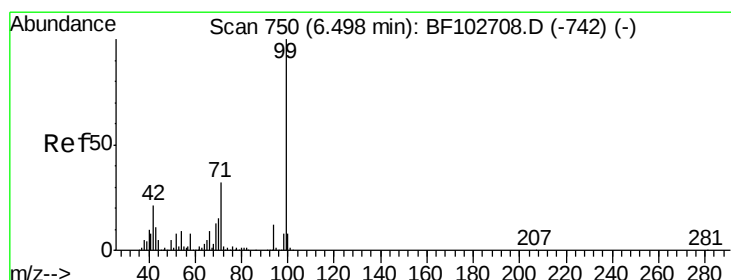
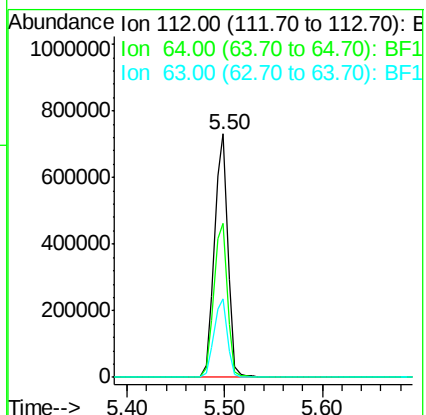
Tot Ion:112 Resp: 696229

Ion Ratio Lower Upper

112 100

64 63.4 47.9 71.9

63 32.4 23.7 35.5



#7

Phenol-d6

Concen: 57.54 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.00 min

Lab File: BF102837.D

Acq: 8 Feb 2018 1:43

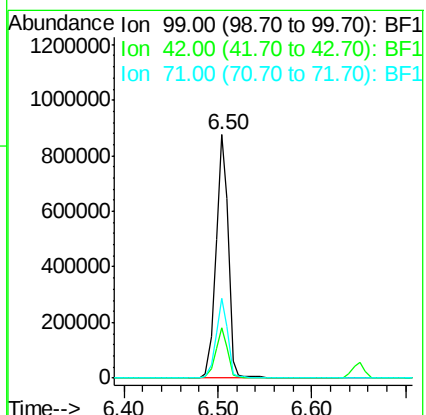
Tgt Ion: 99 Resp: 813249

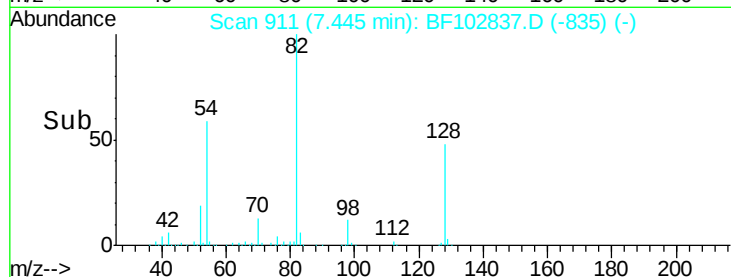
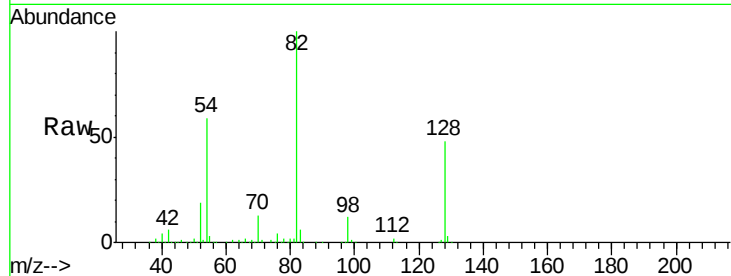
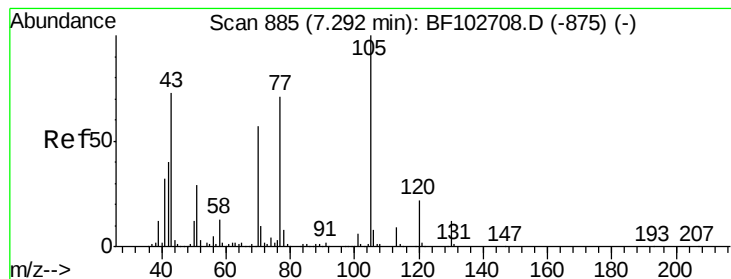
Ion Ratio Lower Upper

99 100

42 20.7 14.5 21.7

71 32.7 25.4 38.0





#19

n-Nitroso-di-n-propylamine

Concen: 6.96 ng

RT: 7.45 min Scan# 911

Delta R.T. 0.15 min

Lab File: BF102837.D

Acq: 8 Feb 2018 1:43

Instrument :

BNA\_F

ClientSampled :

Tot Ion: 70 Resp: 64825

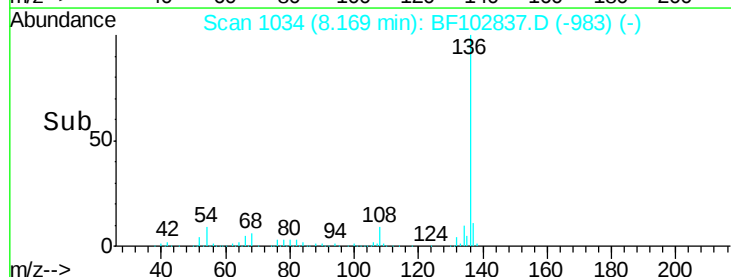
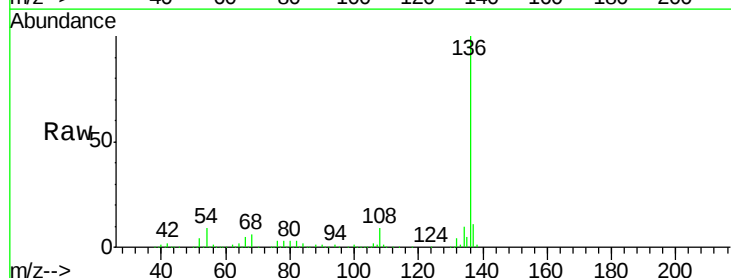
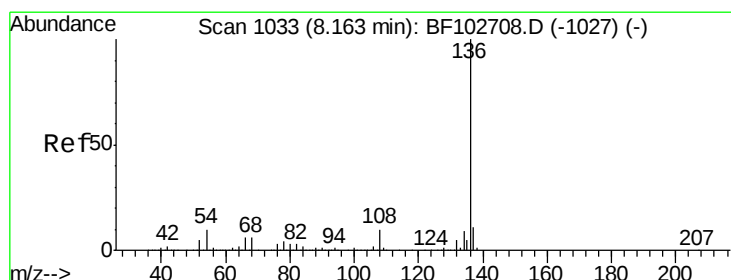
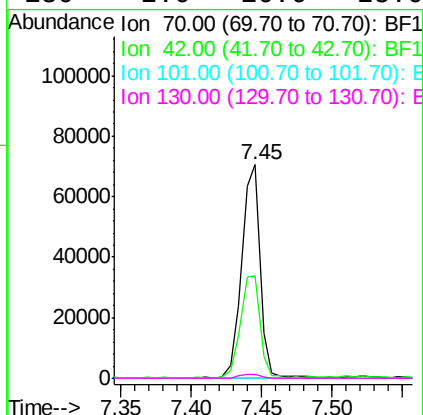
Ion Ratio Lower Upper

70 100

42 48.2 47.5 71.3

101 0.0 7.4 11.2#

130 2.0 16.6 25.0#



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.17 min Scan# 1034

Delta R.T. -0.00 min

Lab File: BF102837.D

Acq: 8 Feb 2018 1:43

Tgt Ion:136 Resp: 703104

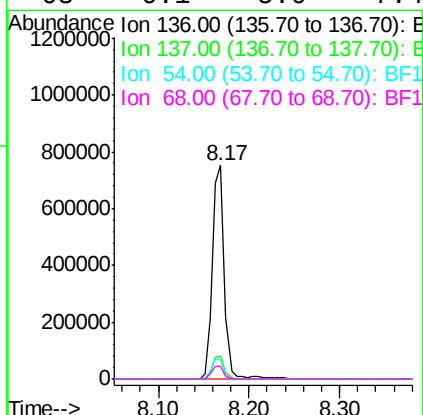
Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 9.0 6.6 9.8

68 6.1 5.0 7.4

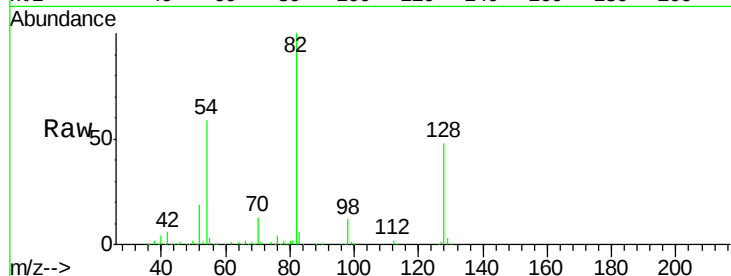




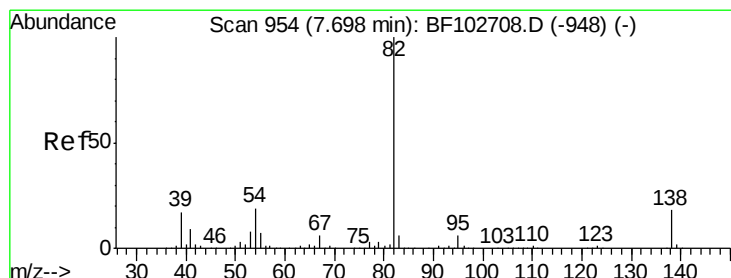
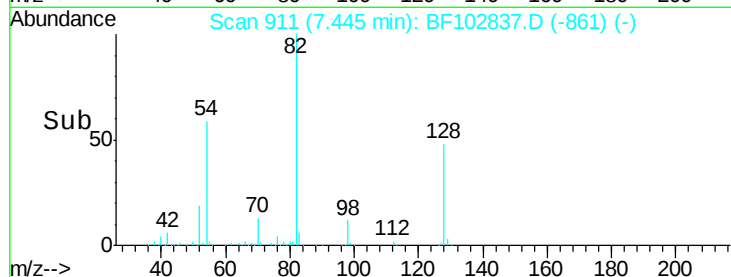
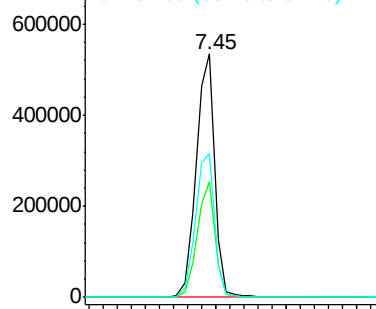
#23  
Nitrobenzene-d5  
Concen: 48.14 ng  
RT: 7.45 min Scan# 911  
Delta R.T. -0.01 min  
Lab File: BF102837.D  
Acq: 8 Feb 2018 1:43

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion   | 82    | Resp  | 487903 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 47.6  | 36.1  | 54.1   |
| 54        | 59.2  | 41.4  | 62.2   |

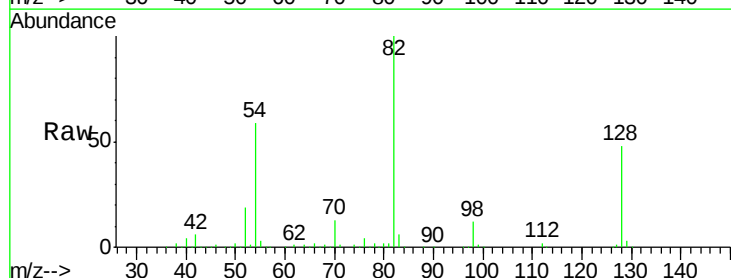


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

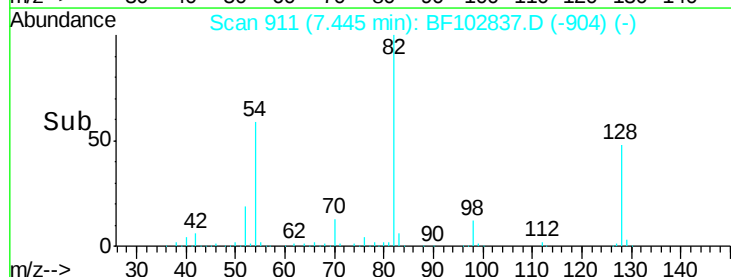
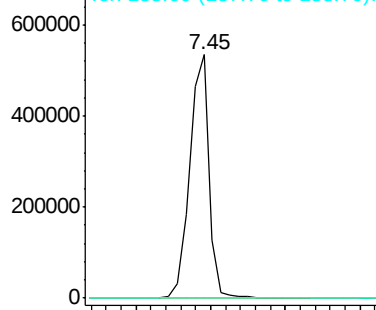


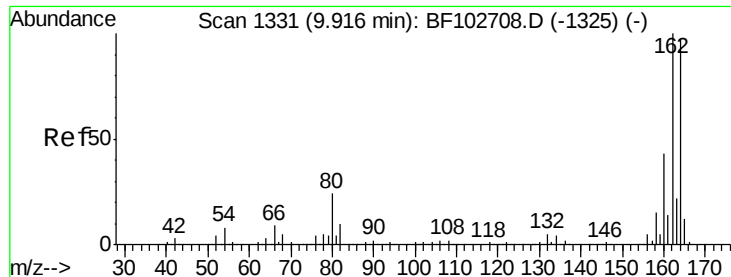
#25  
Isophorone  
Concen: 20.91 ng  
RT: 7.45 min Scan# 911  
Delta R.T. -0.26 min  
Lab File: BF102837.D  
Acq: 8 Feb 2018 1:43

| Tgt Ion   | 82    | Resp  | 487894 |
|-----------|-------|-------|--------|
| 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: 20.00 ng

RT: 9.92 min Scan# 1332

Delta R.T. -0.00 min

Lab File: BF102837.D

Acq: 8 Feb 2018 1:43

Instrument :

BNA\_F

ClientSampleId :

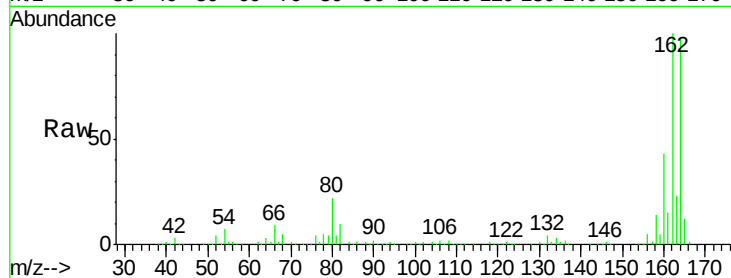
Tot Ion:164 Resp: 280985

Ion Ratio Lower Upper

164 100

162 102.5 86.1 129.1

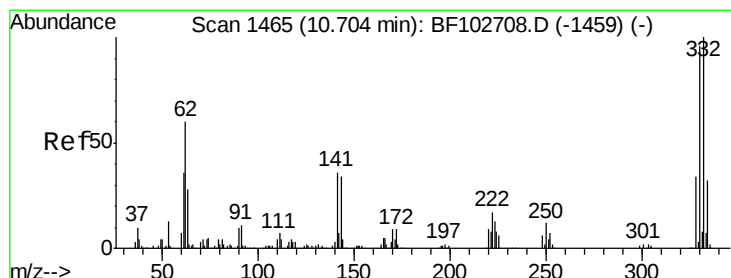
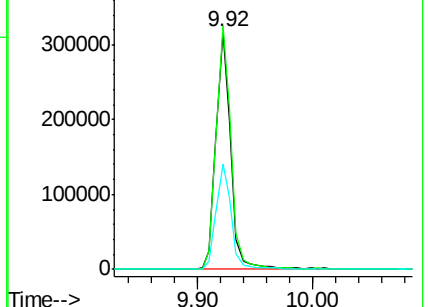
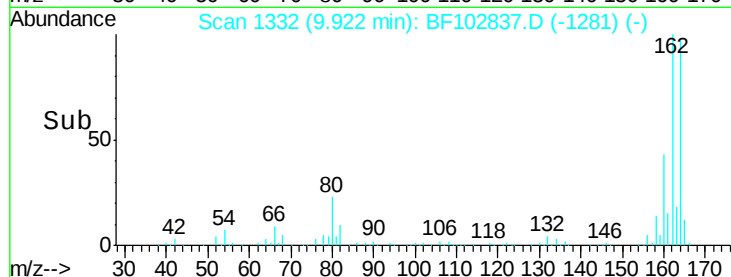
160 44.5 38.3 57.5



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: 57.92 ng

RT: 10.71 min Scan# 1466

Delta R.T. -0.00 min

Lab File: BF102837.D

Acq: 8 Feb 2018 1:43

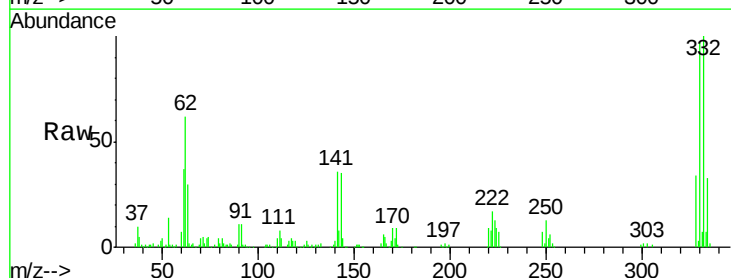
Tgt Ion:330 Resp: 130996

Ion Ratio Lower Upper

330 100

332 101.9 77.0 115.6

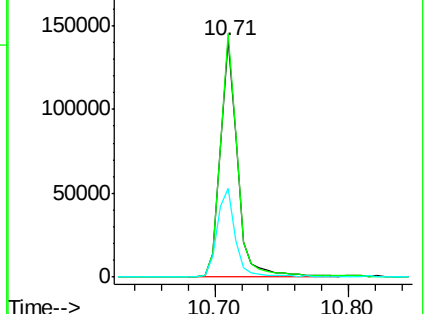
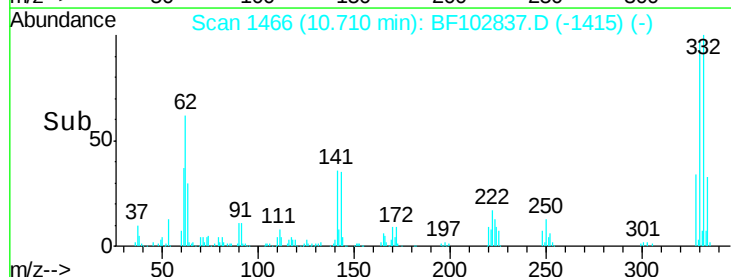
141 40.1 29.9 44.9

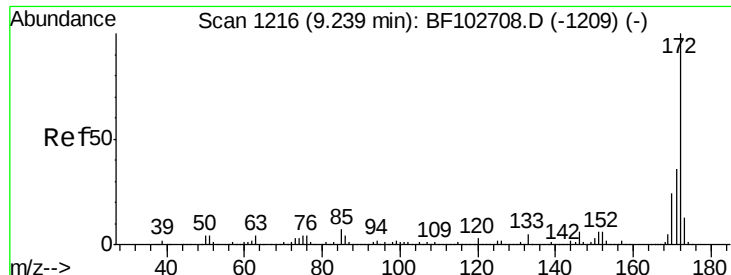


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

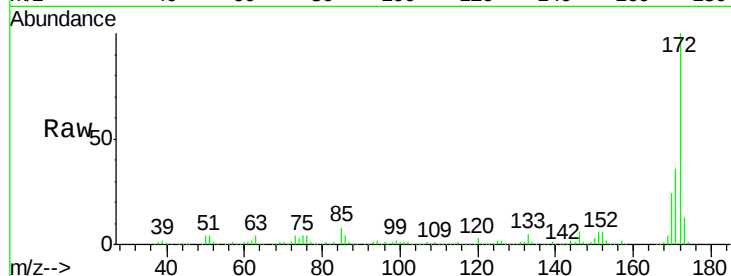




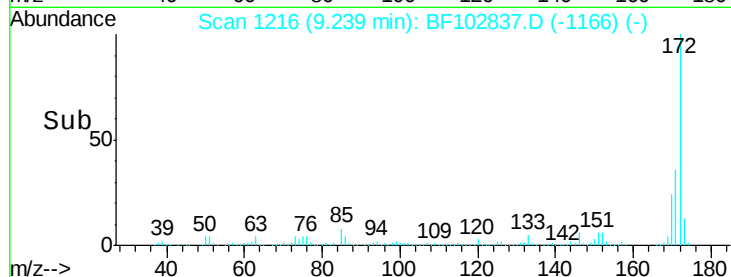
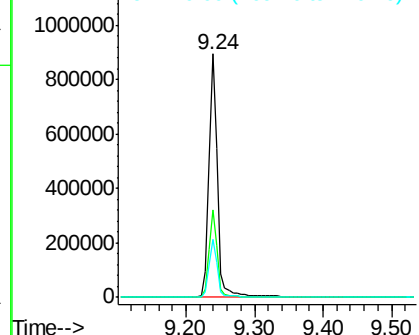
#44  
2-Fluorobiphenyl  
Concen: 48.33 ng  
RT: 9.24 min Scan# 1216  
Delta R.T. -0.01 min  
Lab File: BF102837.D  
Acq: 8 Feb 2018 1:43

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:172 Resp: 818441  
Ion Ratio Lower Upper  
172 100  
171 35.8 29.7 44.5  
170 23.8 19.6 29.4

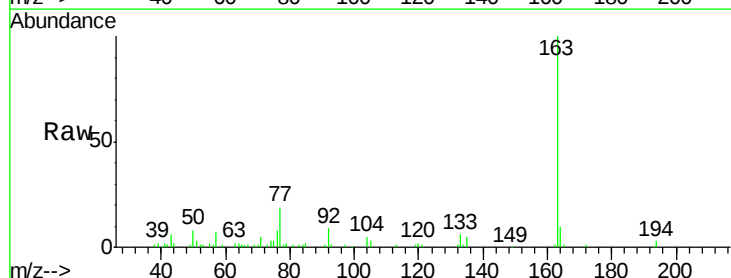


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

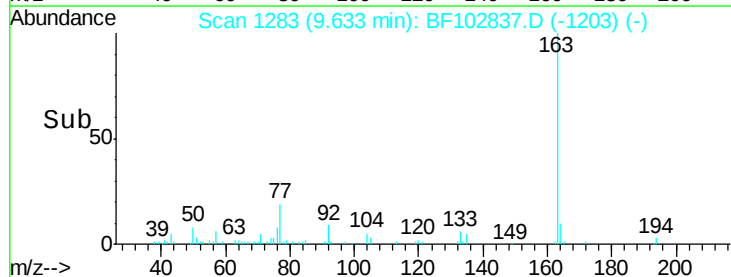
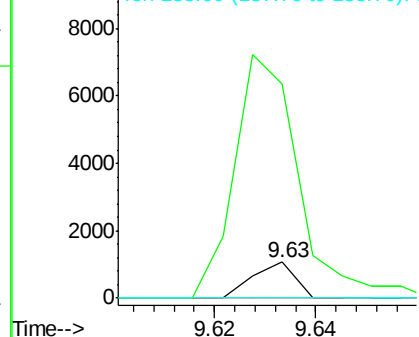


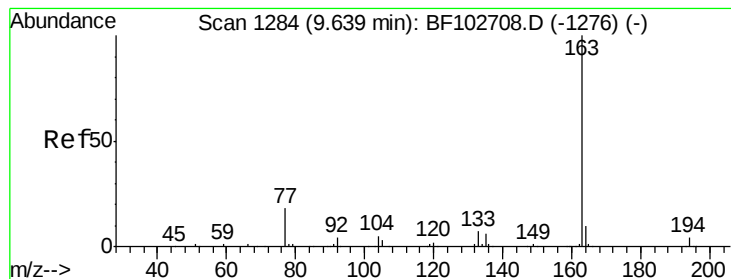
#47  
2-Nitroaniline  
Concen: 3.57 ng  
RT: 9.63 min Scan# 1283  
Delta R.T. 0.17 min  
Lab File: BF102837.D  
Acq: 8 Feb 2018 1:43

Tgt Ion: 65 Resp: 606  
Ion Ratio Lower Upper  
65 100  
92 416.3 55.8 83.6#  
138 0.0 91.2 136.8#



Abundance Ion 65.00 (64.70 to 65.70): BF1  
Ion 92.00 (91.70 to 92.70): BF1  
Ion 138.00 (137.70 to 138.70): E





#49

Dimethylphthalate

Concen: 3.45 ng

RT: 9.63 min Scan# 1283

Delta R.T. -0.01 min

Lab File: BF102837.D

Acq: 8 Feb 2018 1:43

Instrument :

BNA\_F

ClientSampleId :

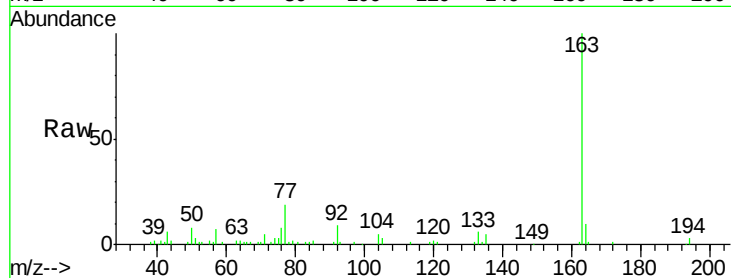
Tot Ion:163 Resp: 75519

Ion Ratio Lower Upper

163 100

194 3.1 2.7 4.1

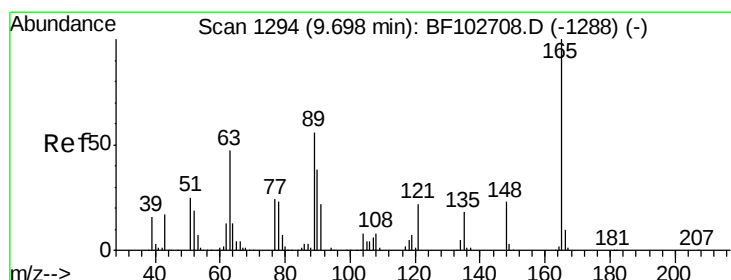
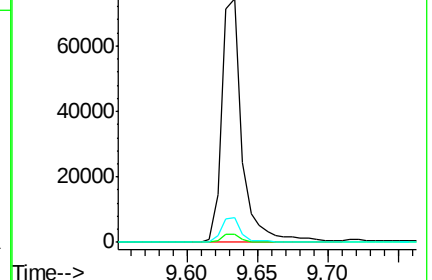
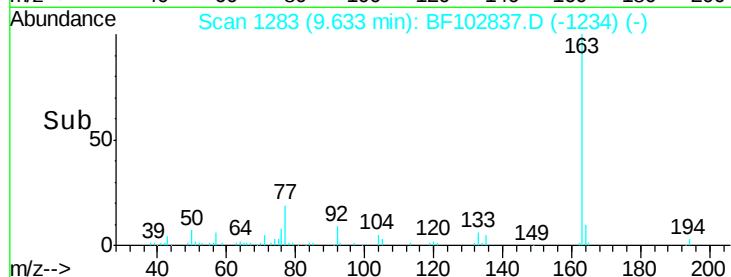
164 10.0 8.2 12.2



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



#50

2,6-Dinitrotoluene

Concen: 8.46 ng

RT: 9.92 min Scan# 1332

Delta R.T. 0.22 min

Lab File: BF102837.D

Acq: 8 Feb 2018 1:43

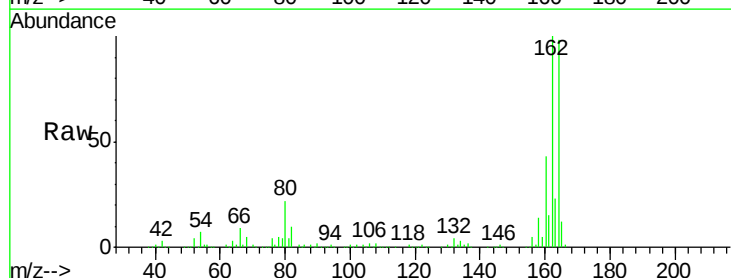
Tgt Ion:165 Resp: 35266

Ion Ratio Lower Upper

165 100

63 0.9 44.7 67.1#

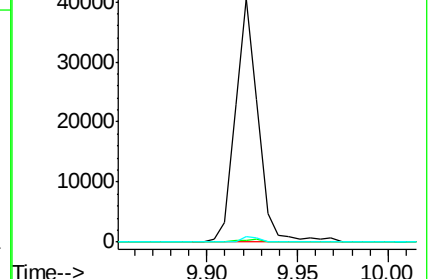
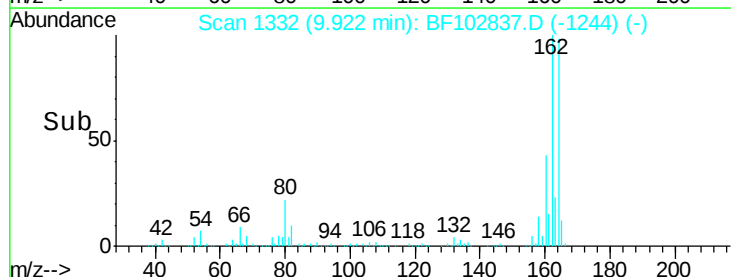
89 2.1 44.0 66.0#

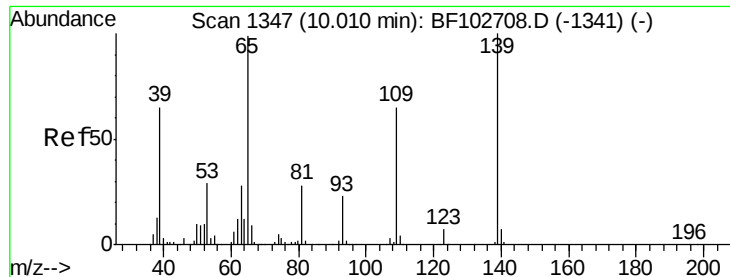


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1





#55

4-Nitrophenol

Concen: 4.18 ng

RT: 10.12 min Scan# 1366

Delta R.T. 0.10 min

Lab File: BF102837.D

Acq: 8 Feb 2018 1:43

Instrument :

BNA\_F

ClientSampleId :

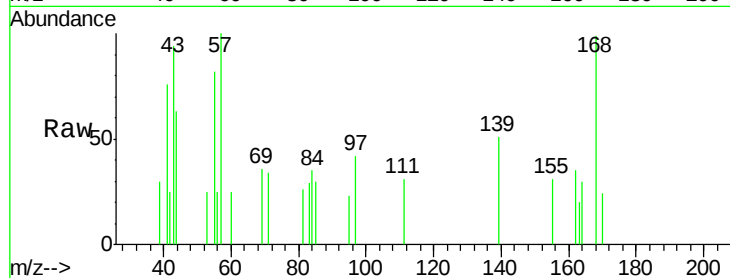
Tot Ion:139 Resp: 696

Ion Ratio Lower Upper

139 100

109 0.0 48.4 88.4#

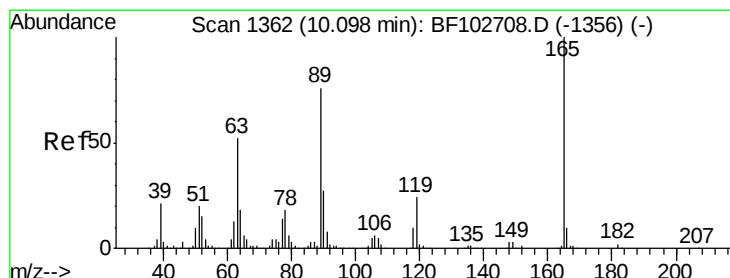
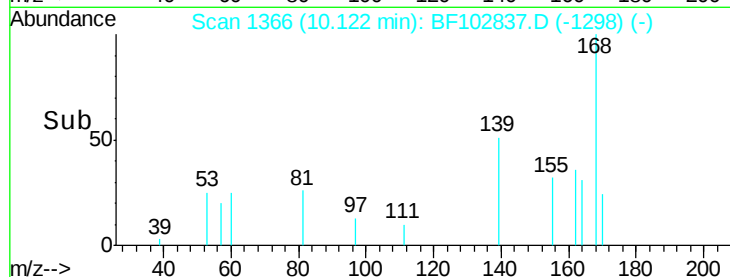
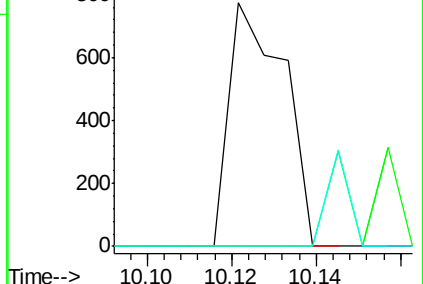
65 0.0 72.6 112.6#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1



#56

2,4-Dinitrotoluene

Concen: 8.98 ng

RT: 9.92 min Scan# 1332

Delta R.T. -0.18 min

Lab File: BF102837.D

Acq: 8 Feb 2018 1:43

Tgt Ion:165 Resp: 35266

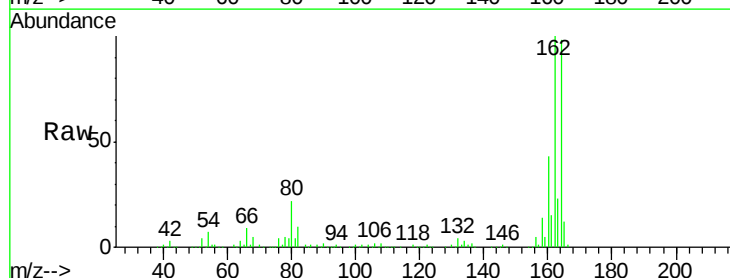
Ion Ratio Lower Upper

165 100

63 0.9 36.4 54.6#

89 2.1 57.8 86.6#

182 0.0 1.6 2.4#

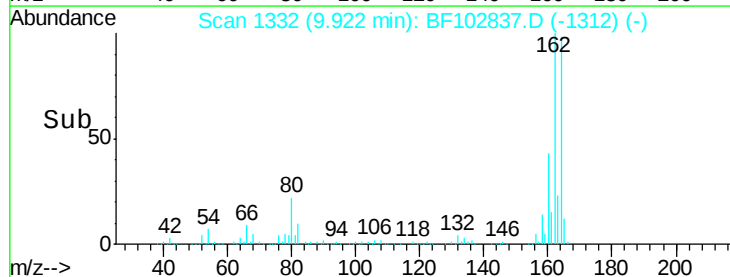
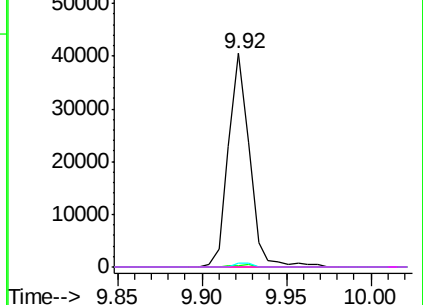


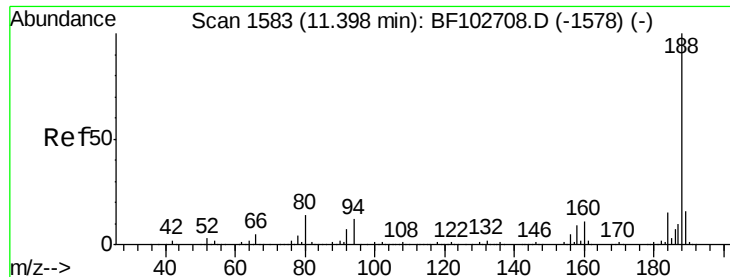
Abundance Ion 165.00 (164.70 to 165.70): E

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

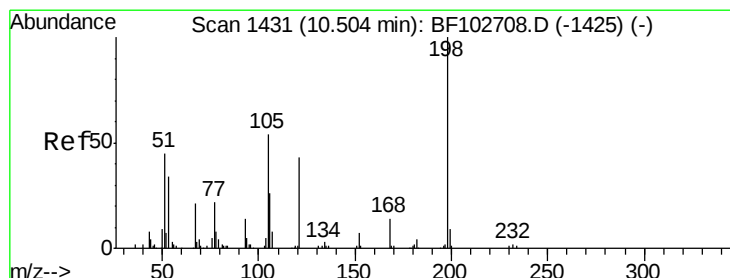
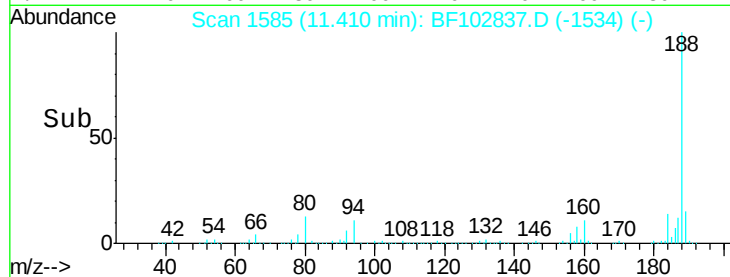
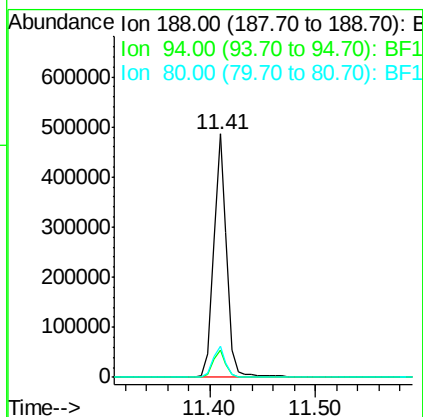
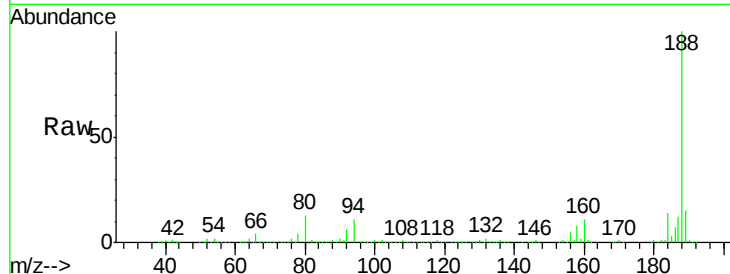




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.41 min Scan# 1585  
Delta R.T. -0.00 min  
Lab File: BF102837.D  
Acq: 8 Feb 2018 1:43

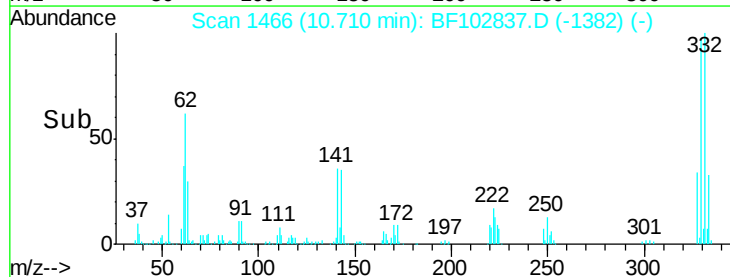
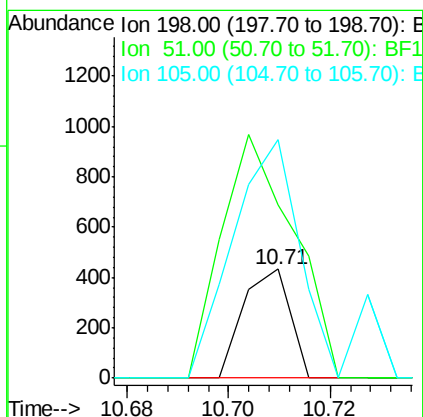
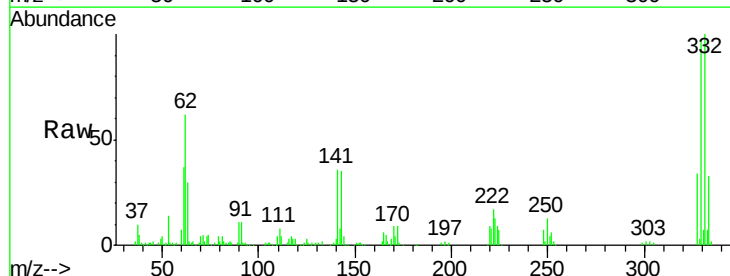
Instrument :  
BNA\_F  
ClientSampleId :

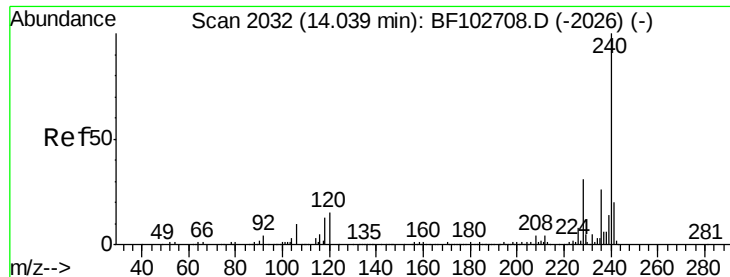
Tot Ion:188 Resp: 422332  
Ion Ratio Lower Upper  
188 100  
94 11.2 8.5 12.7  
80 13.0 9.2 13.8



#64  
4,6-Dinitro-2-methylphenol  
Concen: 8.94 ng  
RT: 10.71 min Scan# 1466  
Delta R.T. 0.19 min  
Lab File: BF102837.D  
Acq: 8 Feb 2018 1:43

Tgt Ion:198 Resp: 277  
Ion Ratio Lower Upper  
198 100  
51 159.7 37.7 77.7#  
105 219.0 36.3 76.3#





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.05 min Scan# 2034

Delta R.T. -0.00 min

Lab File: BF102837.D

Acq: 8 Feb 2018 1:43

Instrument :

BNA\_F

ClientSampleId :

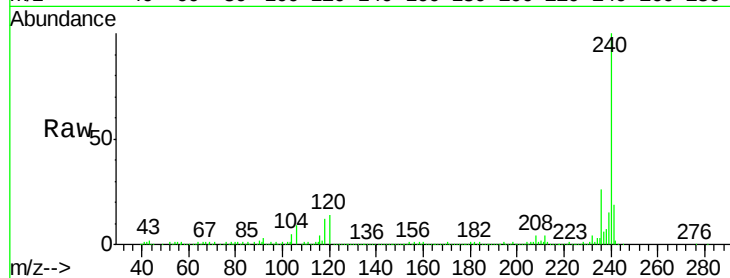
Tot Ion:240 Resp: 338035

Ion Ratio Lower Upper

240 100

120 13.9 9.5 14.3

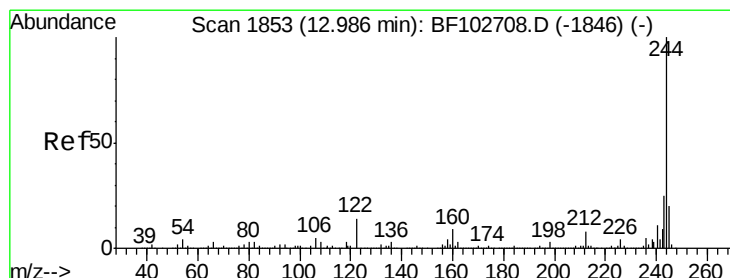
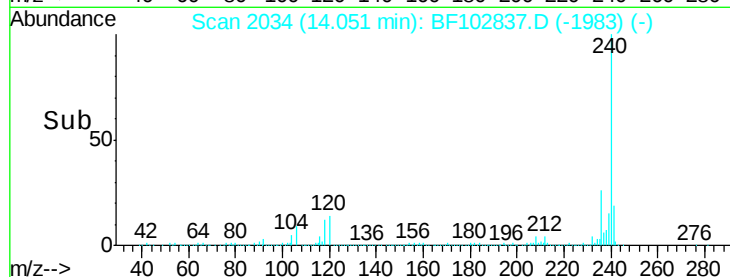
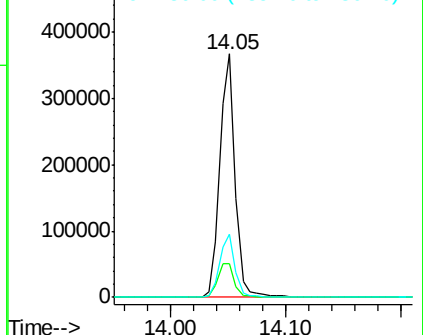
236 25.8 20.7 31.1



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: 39.96 ng

RT: 12.99 min Scan# 1854

Delta R.T. -0.01 min

Lab File: BF102837.D

Acq: 8 Feb 2018 1:43

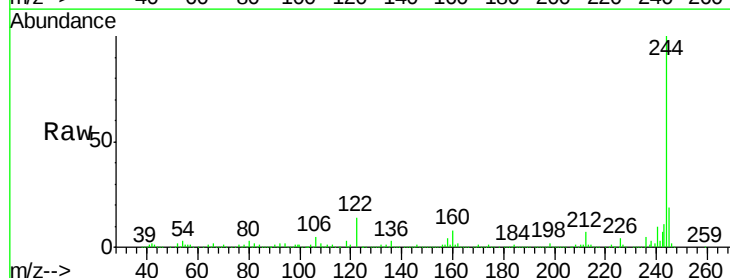
Tgt Ion:244 Resp: 570541

Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.0

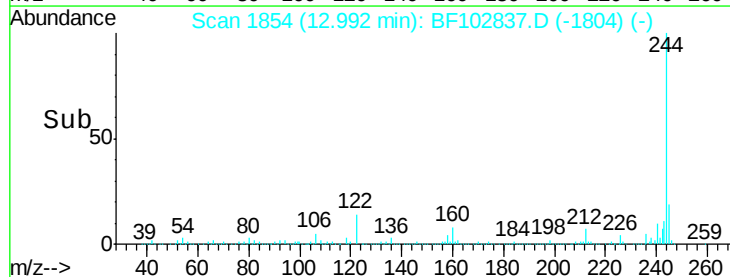
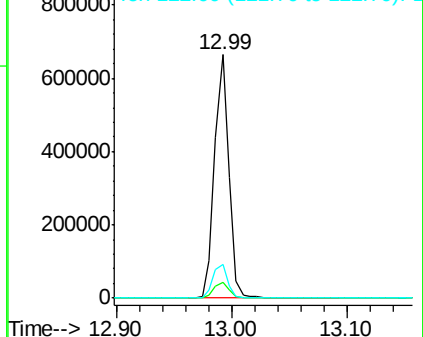
122 13.9 11.0 16.4

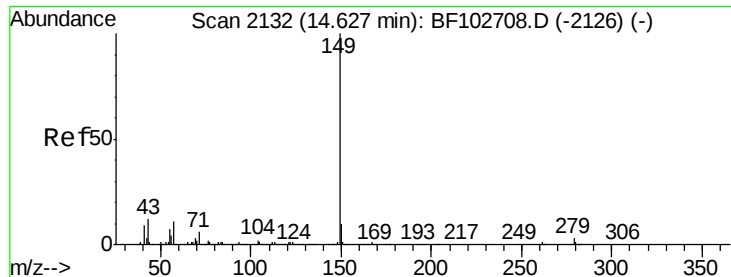


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

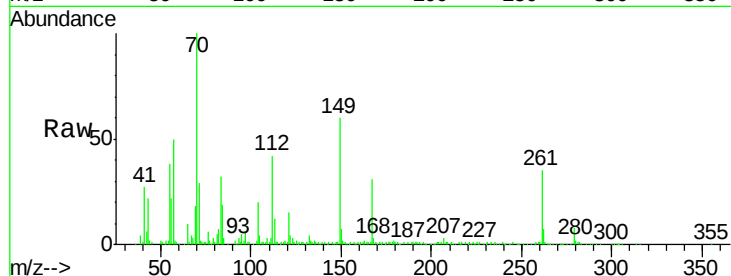




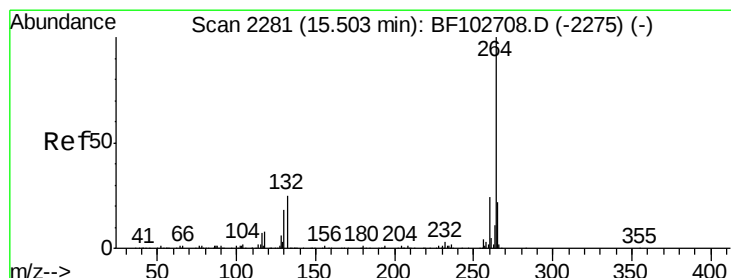
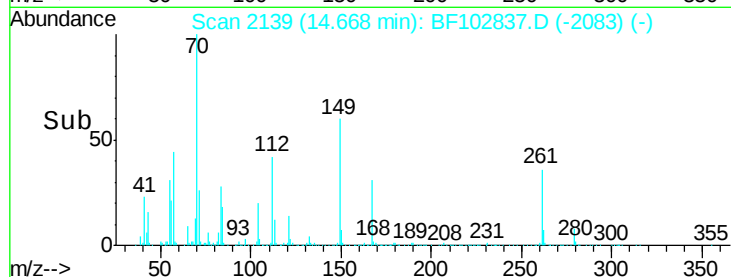
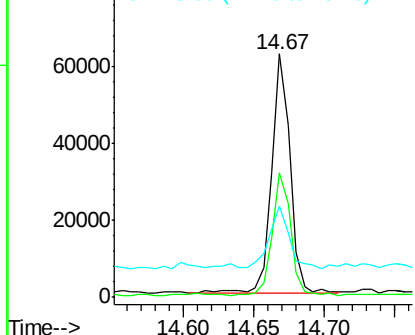
#84  
Di-n-octyl phthalate  
Concen: 2.31 ng  
RT: 14.67 min Scan# 2139  
Delta R.T. 0.03 min  
Lab File: BF102837.D  
Acq: 8 Feb 2018 1:43

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 51.4  | 1.2   | 1.8#  |
| 43      | 28.4  | 8.4   | 12.6# |

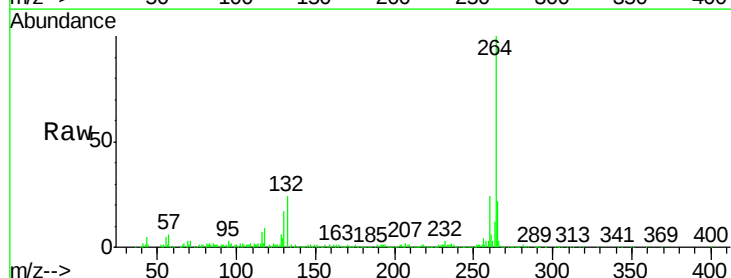


Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 167.00 (166.70 to 167.70): E  
Ion 43.00 (42.70 to 43.70): BF1



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.53 min Scan# 2286  
Delta R.T. 0.01 min  
Lab File: BF102837.D  
Acq: 8 Feb 2018 1:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.4  | 19.2  | 28.8  |
| 265     | 21.7  | 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

