

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF111017\  
 Data File : BF100415.D  
 Acq On : 11 Nov 2017 2:34  
 Operator : SJ/JU  
 Sample : I6355-05  
 Misc :  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Nov 13 07:16:09 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 10 15:44:40 2017  
 Response via : Initial Calibration

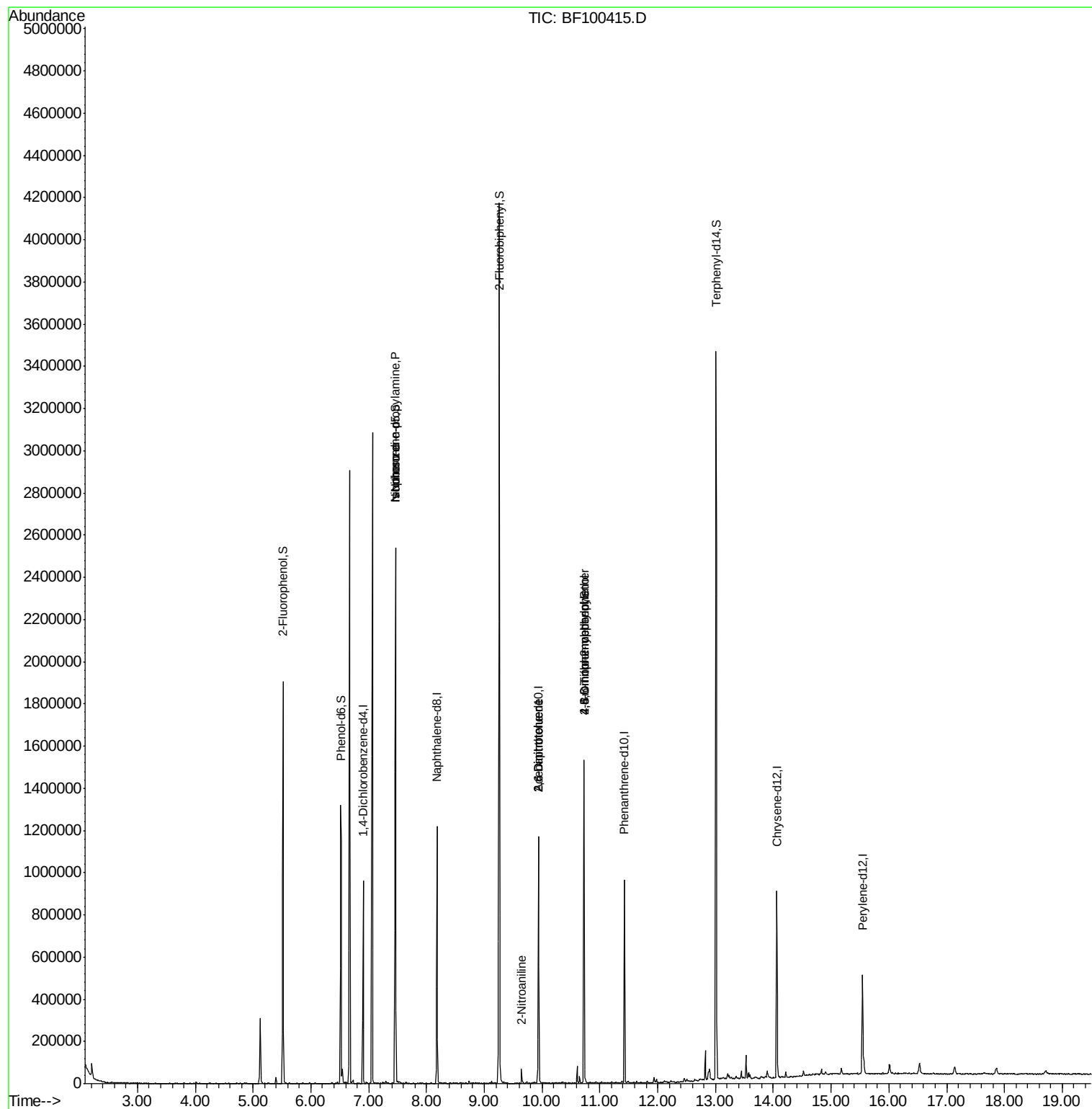
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.90  | 152  | 150145   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.18  | 136  | 541912   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.94  | 164  | 219873   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.42 | 188  | 345925   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 14.06 | 240  | 298696   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.54 | 264  | 229409   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.52  | 112  | 502730   | 53.67  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.52  | 99   | 412737   | 35.73  | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.47  | 82   | 917958   | 111.99 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.73 | 330  | 193103   | 86.19  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.26  | 172  | 1509629  | 104.55 | ng    | 0.00     |
| 78) Terphenyl-d14              | 13.01 | 244  | 1117299  | 85.95  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.47  | 70   | 122847   | 15.336 | ng    | # 79     |
| 25) Isophorone                 | 7.47  | 82   | 916335   | 53.199 | ng    | # 64     |
| 47) 2-Nitroaniline             | 9.65  | 65   | 112      | 2.810  | ng    | # 1      |
| 50) 2,6-Dinitrotoluene         | 9.94  | 165  | 27431    | 8.255  | ng    | # 26     |
| 56) 2,4-Dinitrotoluene         | 9.94  | 165  | 27431    | 6.543  | ng    | # 23     |
| 64) 4,6-Dinitro-2-methylphenol | 10.72 | 198  | 378      | 8.748  | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.73 | 248  | 12306    | 3.319  | ng    | # 1      |

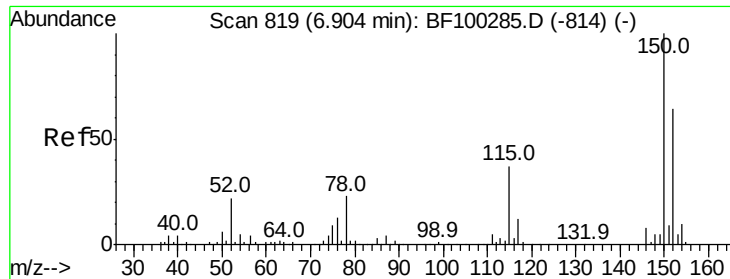
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF111017\  
Data File : BF100415.D  
Acq On : 11 Nov 2017 2:34  
Operator : SJ/JU  
Sample : I6355-05  
Misc :  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Nov 13 07:16:09 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 10 15:44:40 2017  
Response via : Initial Calibration



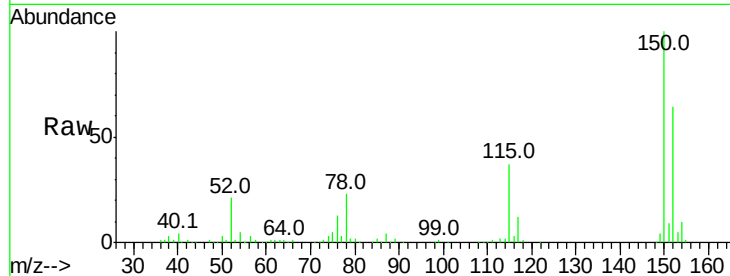


#1

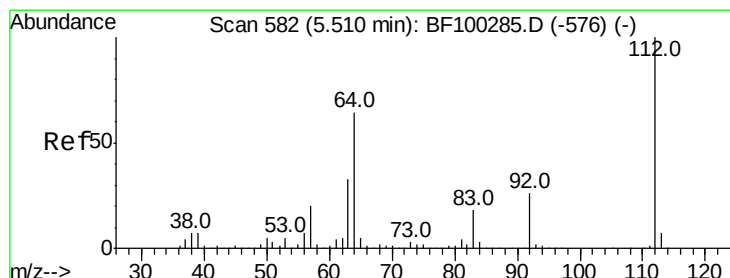
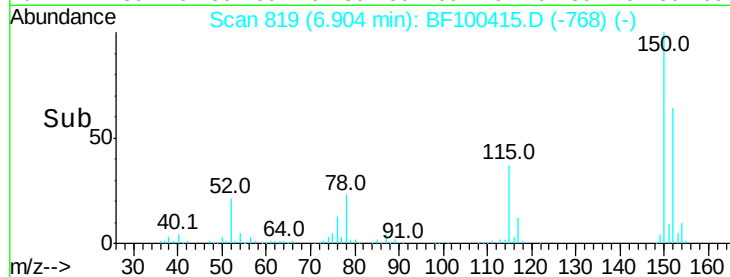
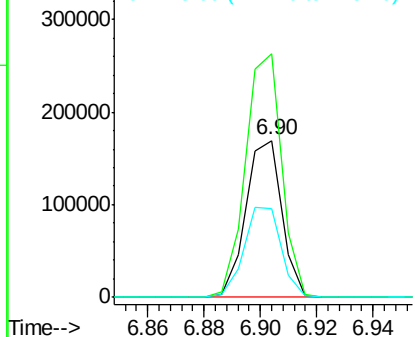
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.90 min Scan# 819  
Delta R.T. -0.00 min  
Lab File: BF100415.D  
Acq: 11 Nov 2017 2:34

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.1 | 124.6 | 186.8 |
| 115     | 56.7  | 50.1  | 75.1  |



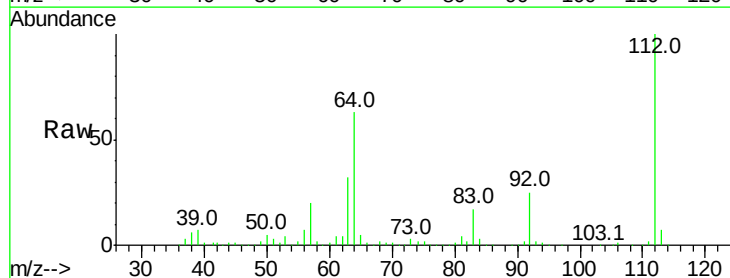
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



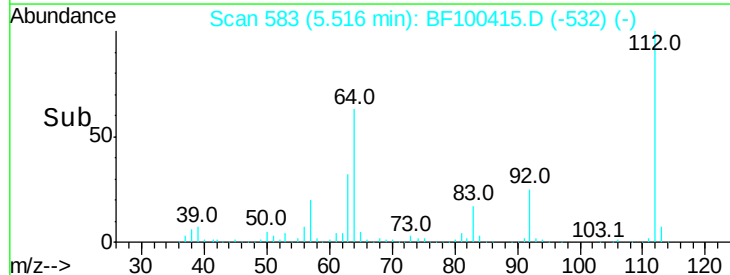
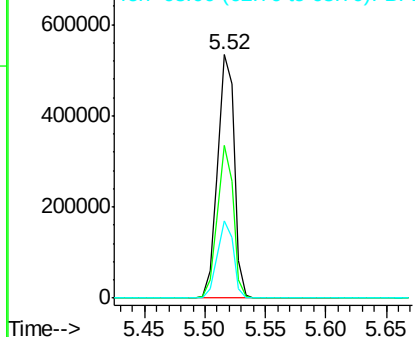
#5

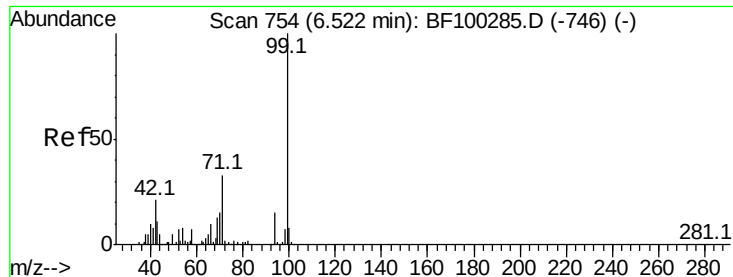
2-Fluorophenol  
Concen: 53.673 ng  
RT: 5.52 min Scan# 583  
Delta R.T. -0.00 min  
Lab File: BF100415.D  
Acq: 11 Nov 2017 2:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 62.7  | 47.9  | 71.9  |
| 63      | 31.9  | 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: 35.734 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.01 min

Lab File: BF100415.D

Acq: 11 Nov 2017 2:34

Instrument :

BNA\_F

ClientSampled :

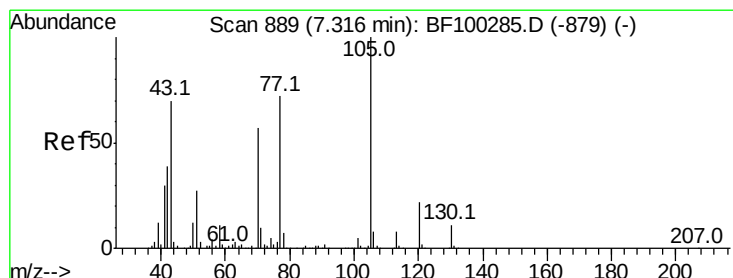
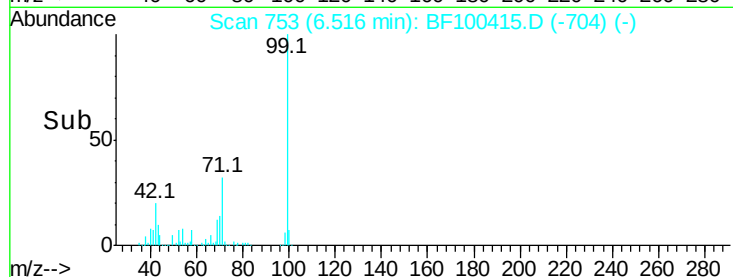
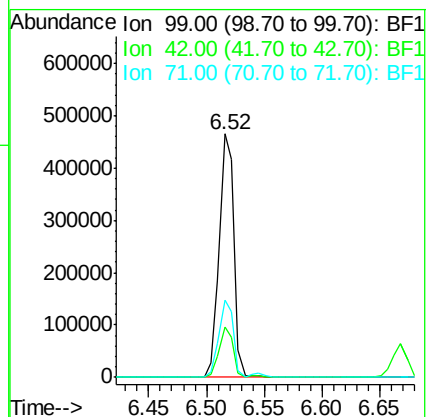
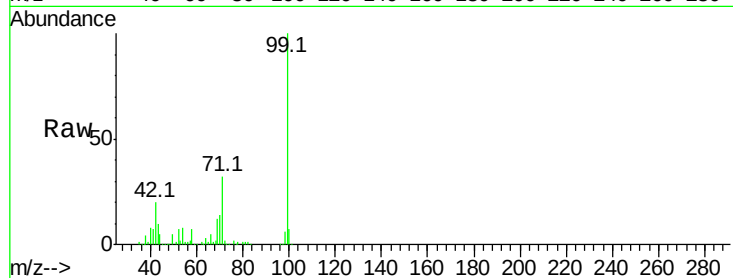
Tot Ion: 99 Resp: 412737

Ion Ratio Lower Upper

99 100

42 20.4 14.5 21.7

71 31.9 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 15.336 ng

RT: 7.47 min Scan# 915

Delta R.T. 0.15 min

Lab File: BF100415.D

Acq: 11 Nov 2017 2:34

Tgt Ion: 70 Resp: 122847

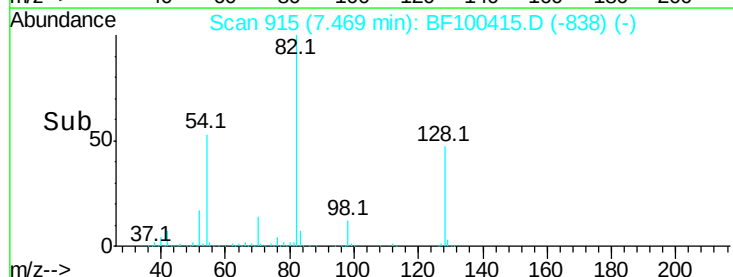
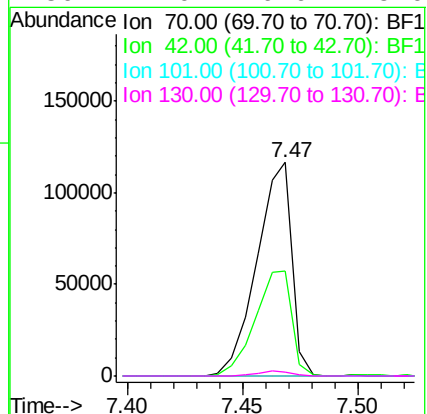
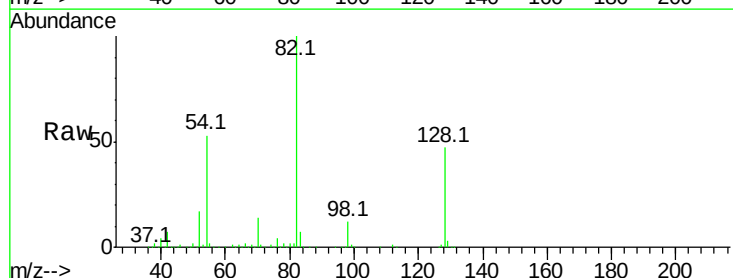
Ion Ratio Lower Upper

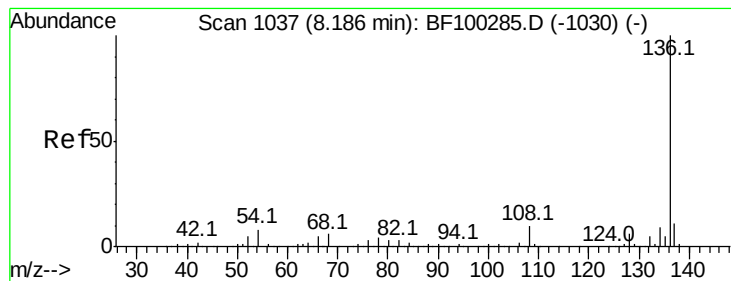
70 100

42 49.3 47.5 71.3

101 0.0 7.4 11.2#

130 2.0 16.6 25.0#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.18 min Scan# 1036

Delta R.T. -0.01 min

Lab File: BF100415.D

Acq: 11 Nov 2017 2:34

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 541912

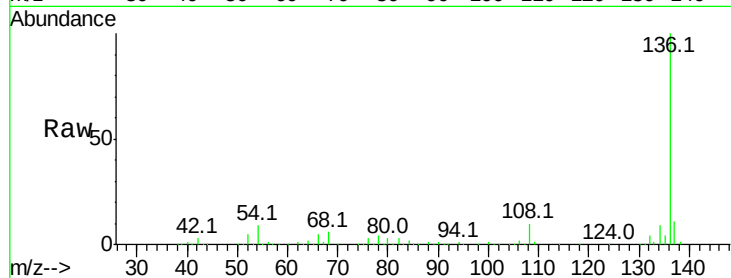
Ion Ratio Lower Upper

136 100

137 10.9 8.9 13.3

54 9.2 6.6 9.8

68 6.5 5.0 7.4

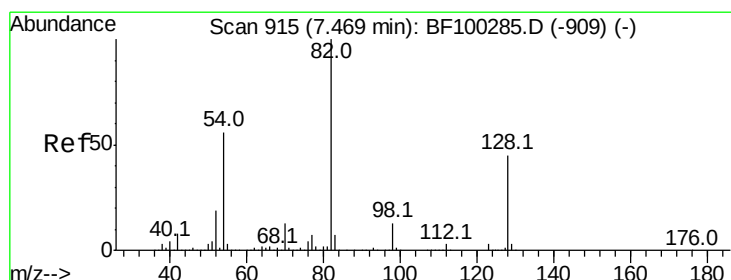
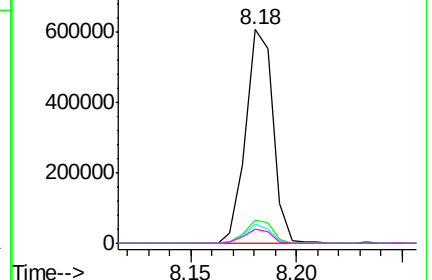
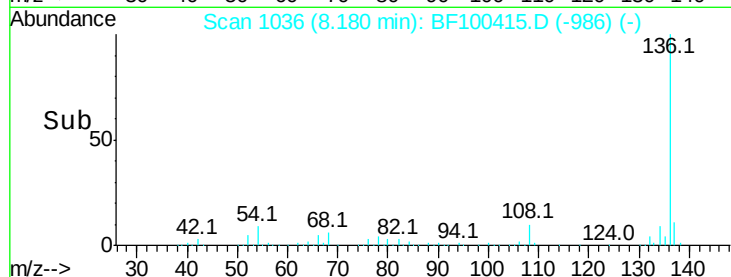


Abundance Ion 136.00 (135.70 to 136.70): E

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: 111.991 ng

RT: 7.47 min Scan# 915

Delta R.T. -0.00 min

Lab File: BF100415.D

Acq: 11 Nov 2017 2:34

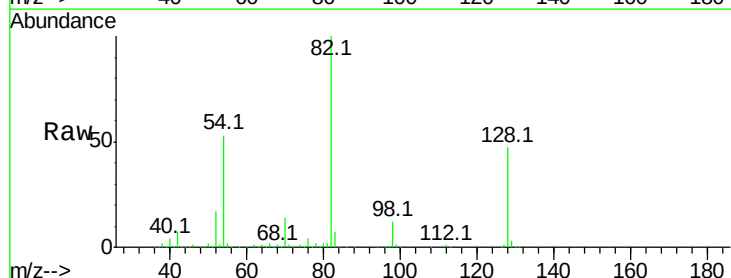
Tgt Ion: 82 Resp: 917958

Ion Ratio Lower Upper

82 100

128 47.2 36.1 54.1

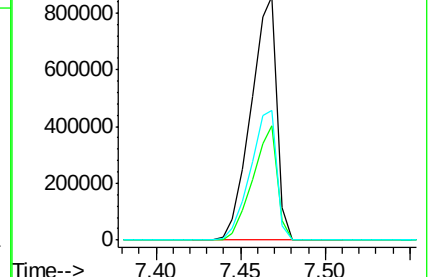
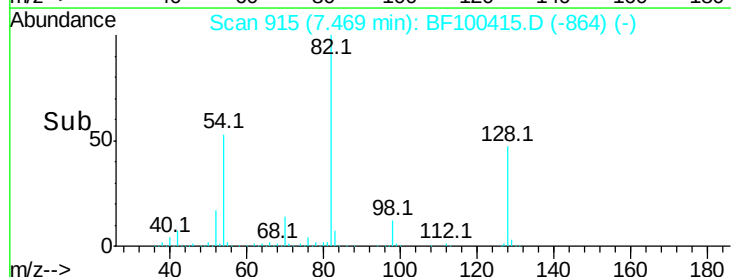
54 53.4 41.4 62.2

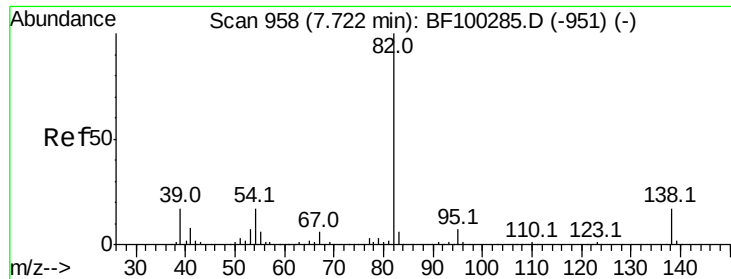


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 53.199 ng

RT: 7.47 min Scan# 915

Delta R.T. -0.26 min

Lab File: BF100415.D

Acq: 11 Nov 2017 2:34

Instrument :

BNA\_F

ClientSampleId :

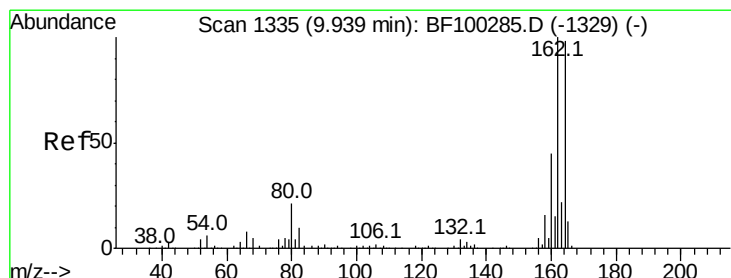
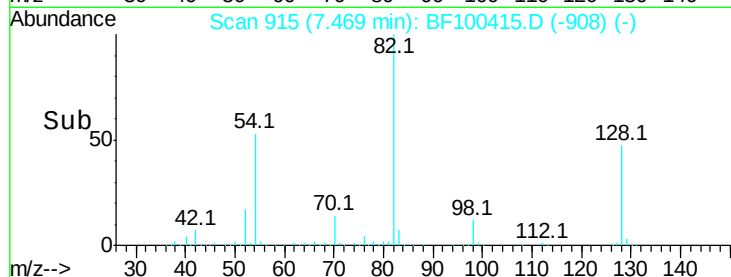
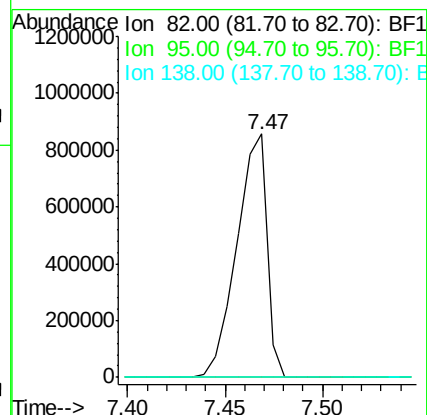
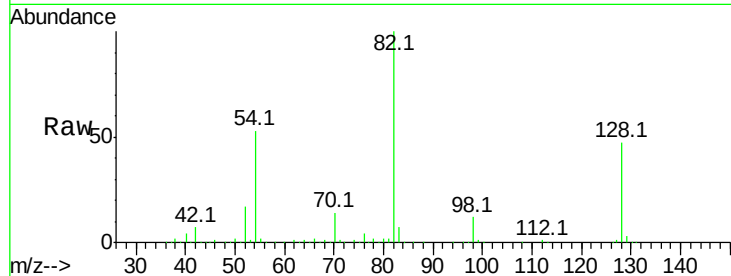
Tot Ion: 82 Resp: 916335

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: 9.94 min Scan# 1335

Delta R.T. -0.01 min

Lab File: BF100415.D

Acq: 11 Nov 2017 2:34

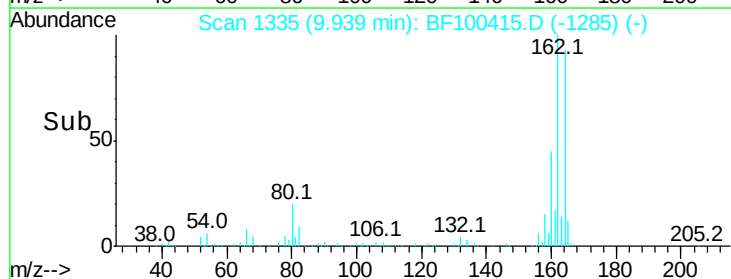
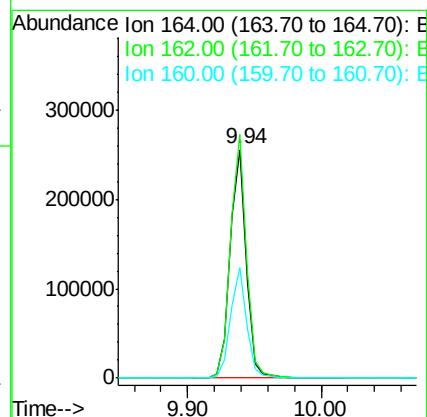
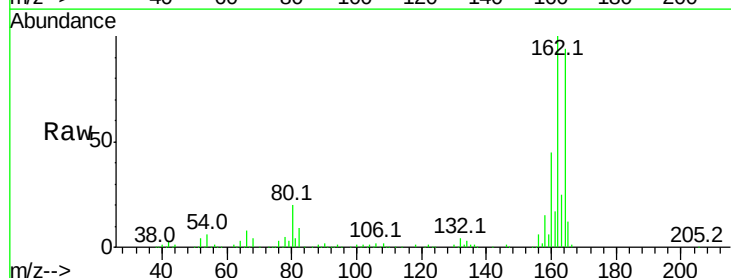
Tgt Ion:164 Resp: 219873

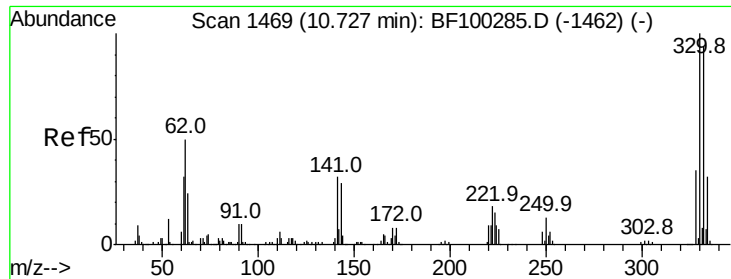
Ion Ratio Lower Upper

164 100

162 106.6 86.1 129.1

160 48.3 38.3 57.5

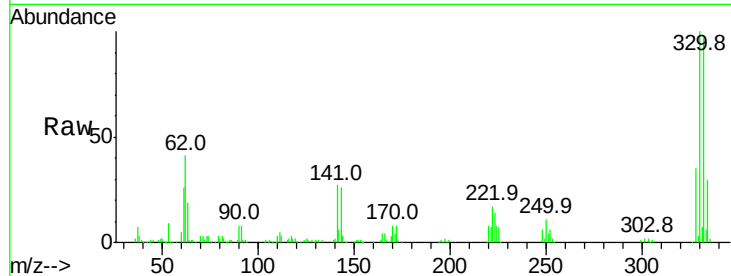




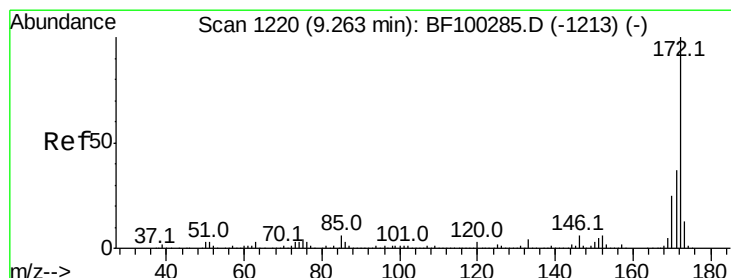
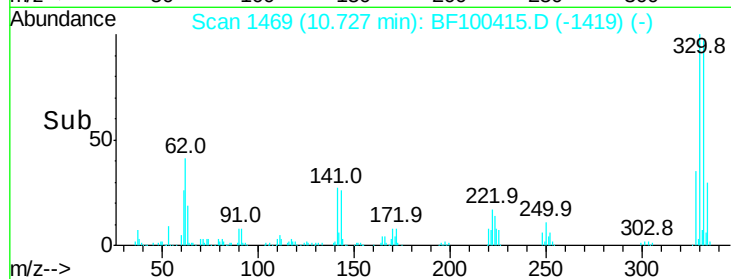
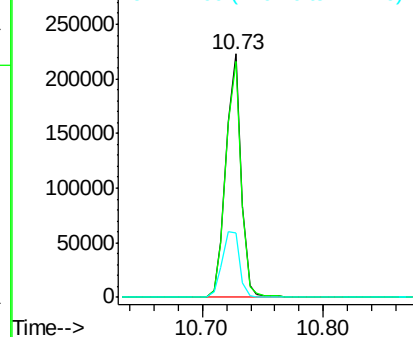
#41  
 2,4,6-Tribromophenol  
 Concen: 86.187 ng  
 RT: 10.73 min Scan# 1469  
 Delta R.T. -0.01 min  
 Lab File: BF100415.D  
 Acq: 11 Nov 2017 2:34

Instrument :  
 BNA\_F  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.0  | 77.0  | 115.6 |
| 141     | 31.0  | 29.9  | 44.9  |

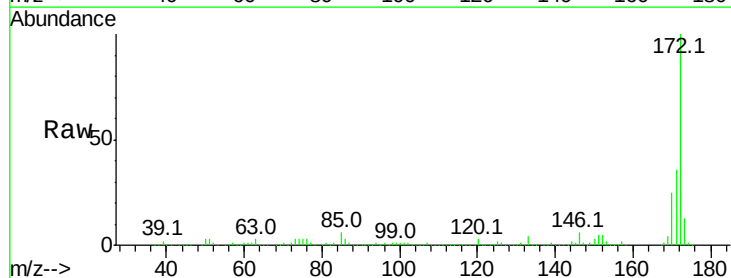


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

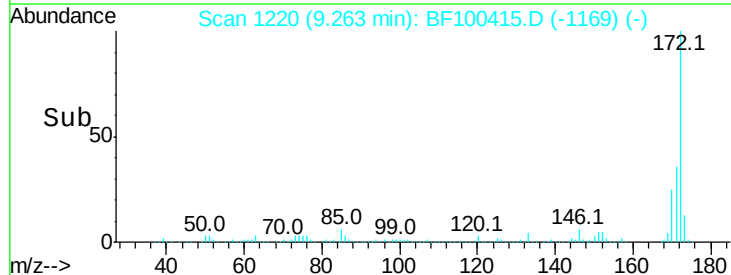
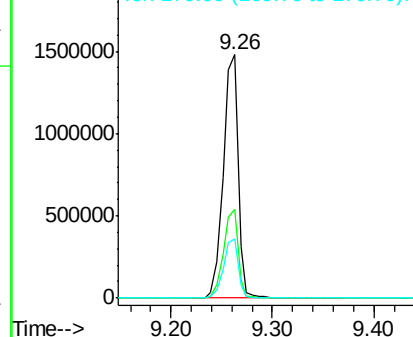


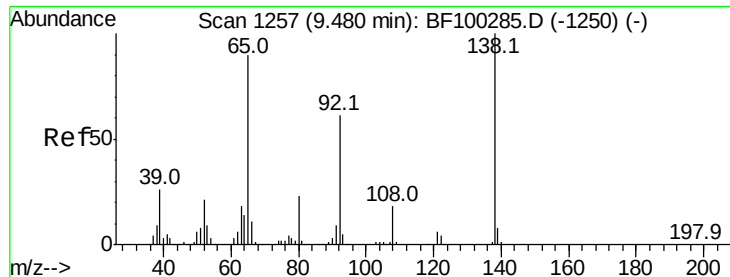
#44  
 2-Fluorobiphenyl  
 Concen: 104.548 ng  
 RT: 9.26 min Scan# 1220  
 Delta R.T. -0.00 min  
 Lab File: BF100415.D  
 Acq: 11 Nov 2017 2:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.2  | 29.7  | 44.5  |
| 170     | 24.5  | 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: 2.810 ng

RT: 9.65 min Scan# 1285

Delta R.T. 0.16 min

Lab File: BF100415.D

Acq: 11 Nov 2017 2:34

Instrument :

BNA\_F

ClientSampleId :

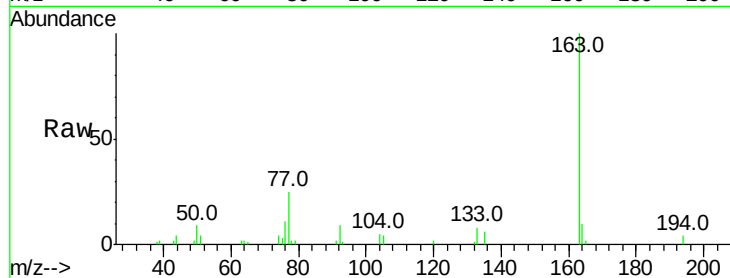
Tot Ion: 65 Resp: 112

Ion Ratio Lower Upper

65 100

92 892.7 55.8 83.6#

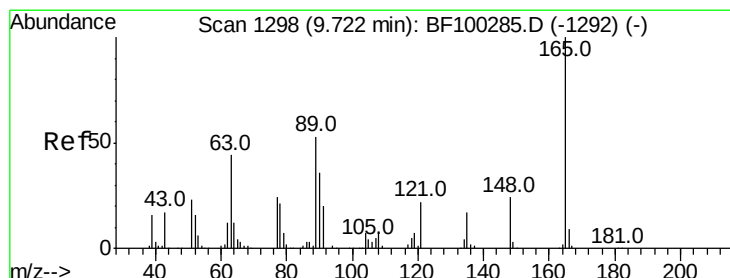
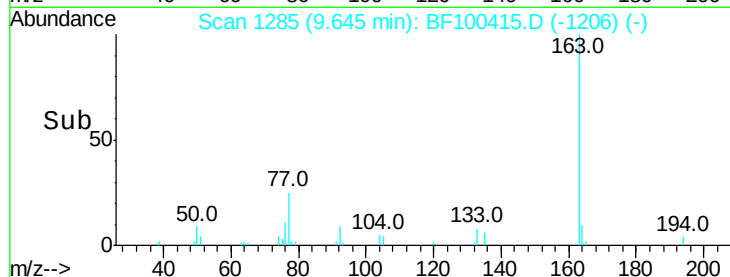
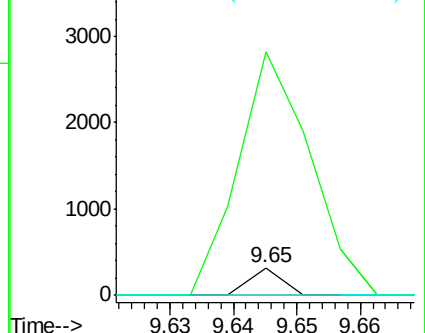
138 0.0 91.2 136.8#



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): BF1



#50

2,6-Dinitrotoluene

Concen: 8.255 ng

RT: 9.94 min Scan# 1335

Delta R.T. 0.22 min

Lab File: BF100415.D

Acq: 11 Nov 2017 2:34

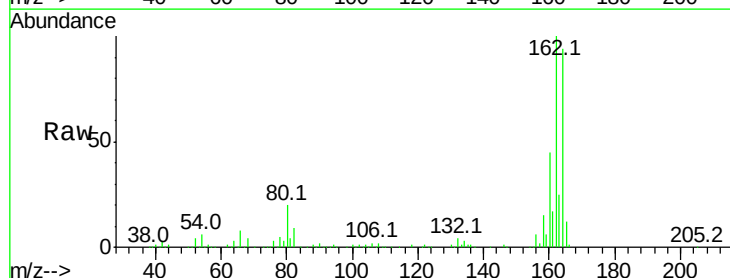
Tgt Ion:165 Resp: 27431

Ion Ratio Lower Upper

165 100

63 1.1 44.7 67.1#

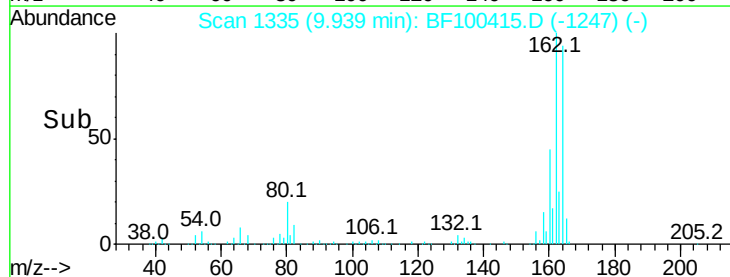
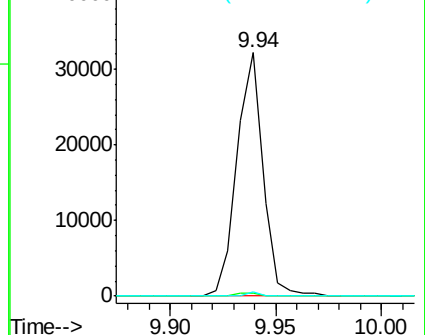
89 1.8 44.0 66.0#



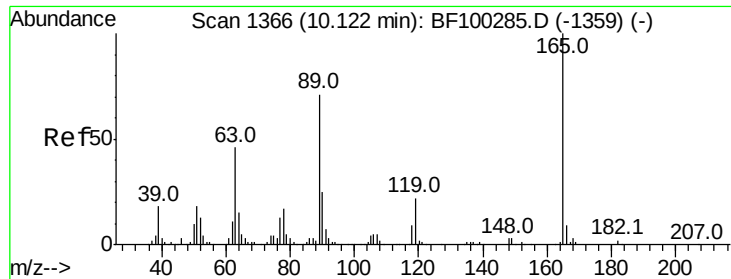
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1







#56

2,4-Dinitrotoluene

Concen: 6.543 ng

RT: 9.94 min Scan# 1335

Delta R.T. -0.19 min

Lab File: BF100415.D

Acq: 11 Nov 2017 2:34

Instrument :

BNA\_F

ClientSampled :

Tot Ion:165 Resp: 27431

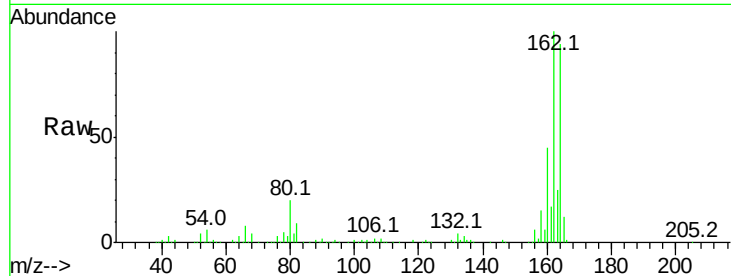
Ion Ratio Lower Upper

165 100

63 1.1 36.4 54.6#

89 1.8 57.8 86.6#

182 0.0 1.6 2.4#

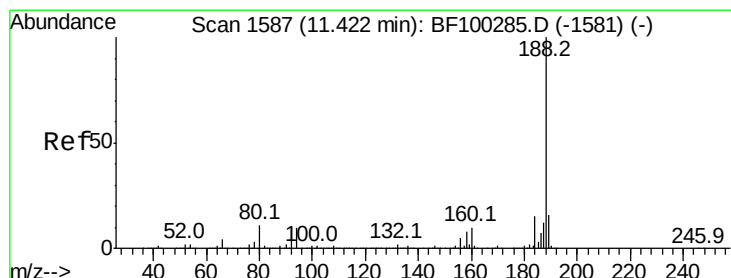
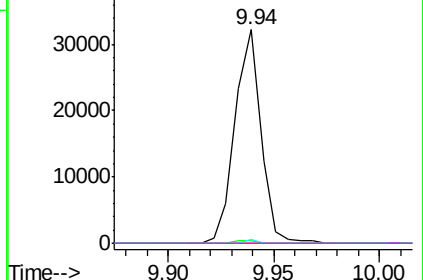
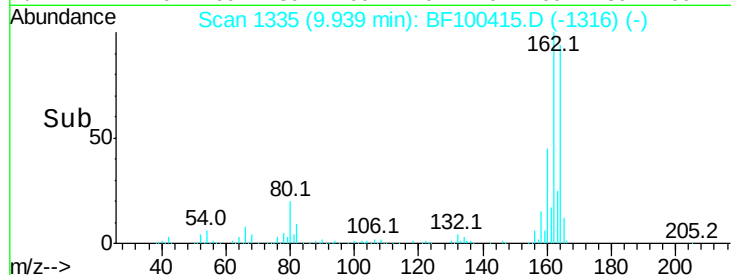


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.42 min Scan# 1587

Delta R.T. -0.01 min

Lab File: BF100415.D

Acq: 11 Nov 2017 2:34

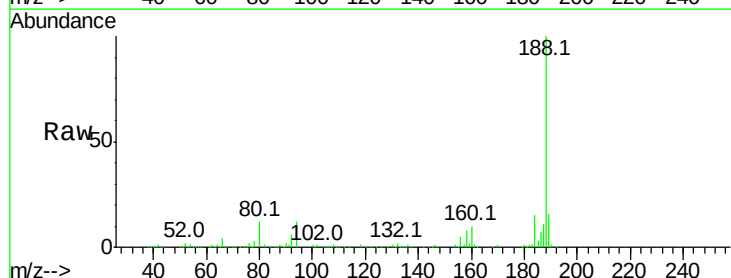
Tgt Ion:188 Resp: 345925

Ion Ratio Lower Upper

188 100

94 11.6 8.5 12.7

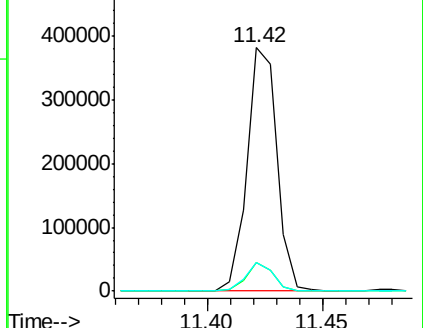
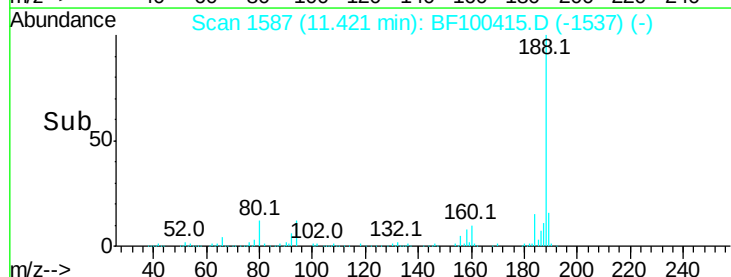
80 11.6 9.2 13.8

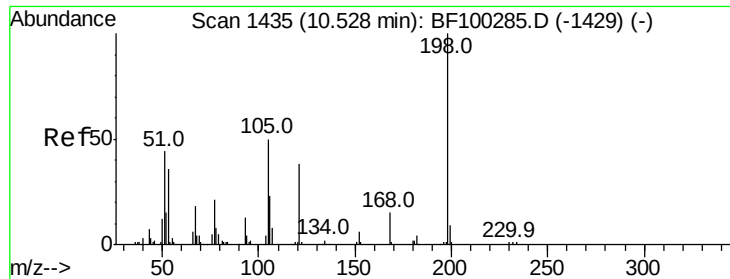


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

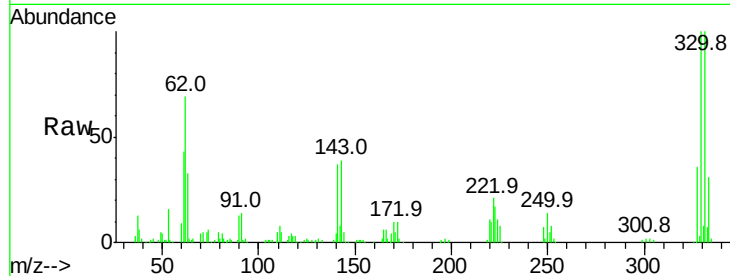




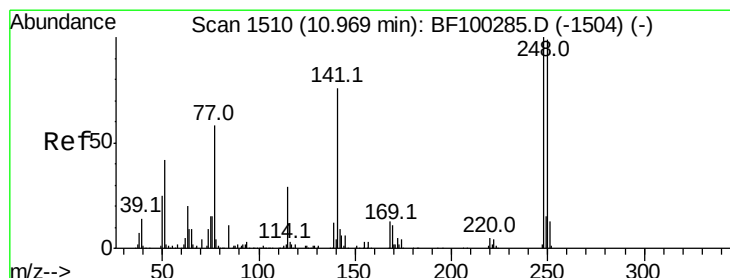
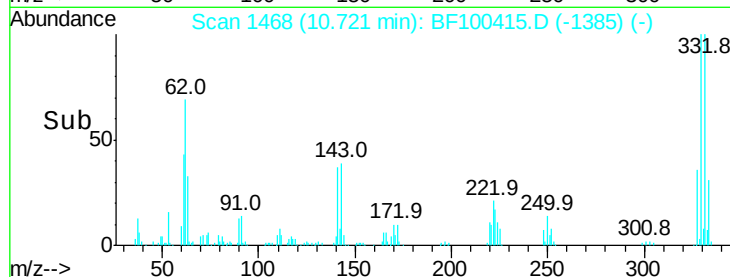
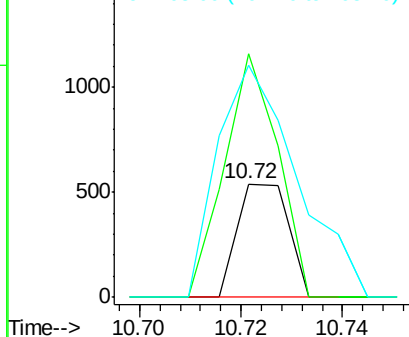
#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 8.748 ng  
 RT: 10.72 min Scan# 1468  
 Delta R.T. 0.19 min  
 Lab File: BF100415.D  
 Acq: 11 Nov 2017 2:34

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:198 Resp: 378  
 Ion Ratio Lower Upper  
 198 100  
 51 215.4 37.7 77.7#  
 105 205.8 36.3 76.3#

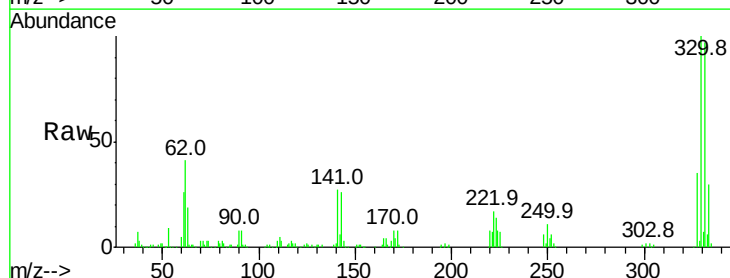


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF1  
 Ion 105.00 (104.70 to 105.70): E

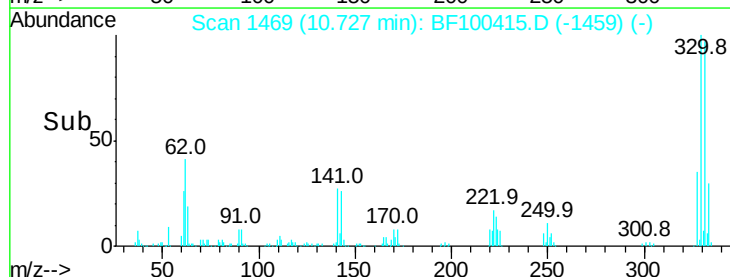
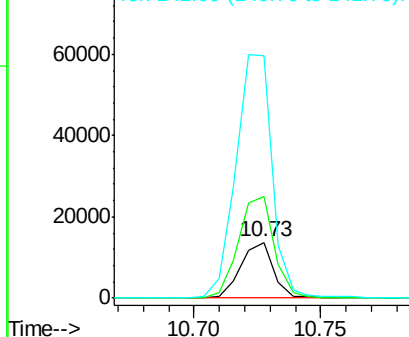


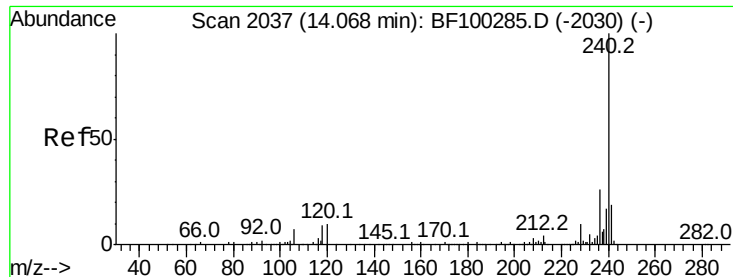
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.319 ng  
 RT: 10.73 min Scan# 1469  
 Delta R.T. -0.24 min  
 Lab File: BF100415.D  
 Acq: 11 Nov 2017 2:34

Tgt Ion:248 Resp: 12306  
 Ion Ratio Lower Upper  
 248 100  
 250 181.7 76.9 115.3#  
 141 433.4 74.4 111.6#



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





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.06 min Scan# 2036

Delta R.T. -0.01 min

Lab File: BF100415.D

Acq: 11 Nov 2017 2:34

Instrument :

BNA\_F

ClientSampleId :

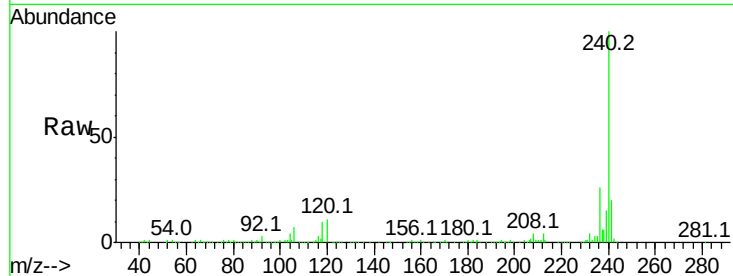
Tot Ion:240 Resp: 298696

Ion Ratio Lower Upper

240 100

120 11.4 9.5 14.3

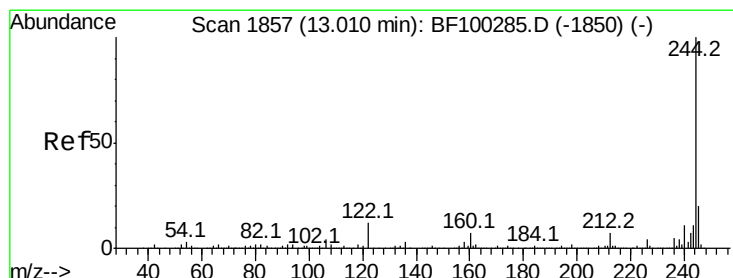
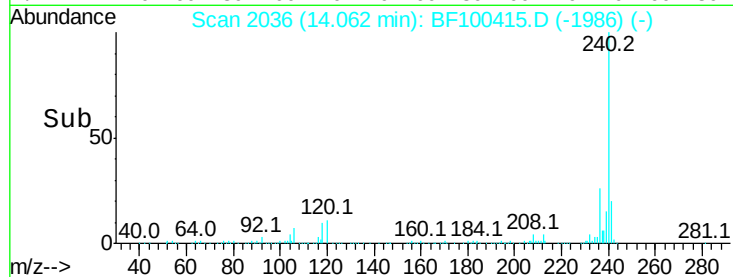
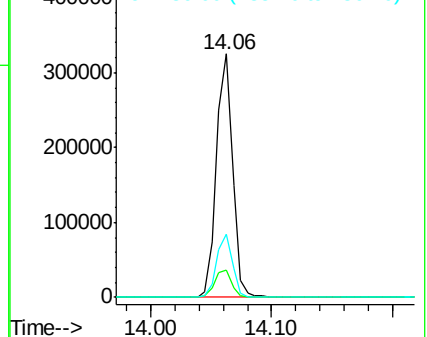
236 26.1 20.7 31.1



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: 85.948 ng

RT: 13.01 min Scan# 1857

Delta R.T. -0.00 min

Lab File: BF100415.D

Acq: 11 Nov 2017 2:34

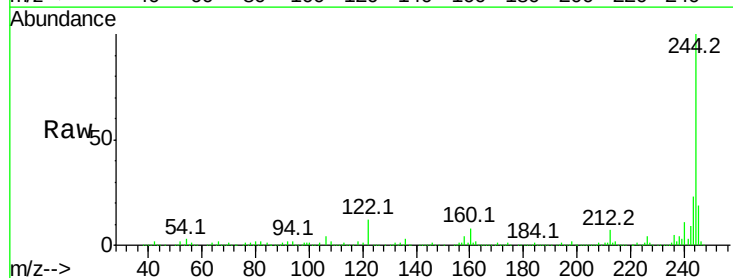
Tgt Ion:244 Resp: 1117299

Ion Ratio Lower Upper

244 100

212 7.4 5.4 8.0

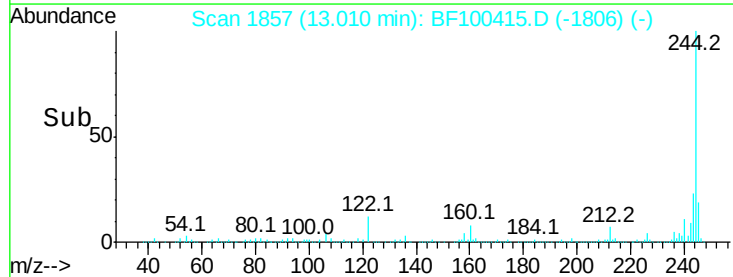
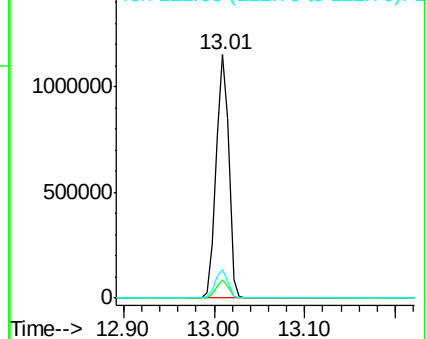
122 11.7 11.0 16.4

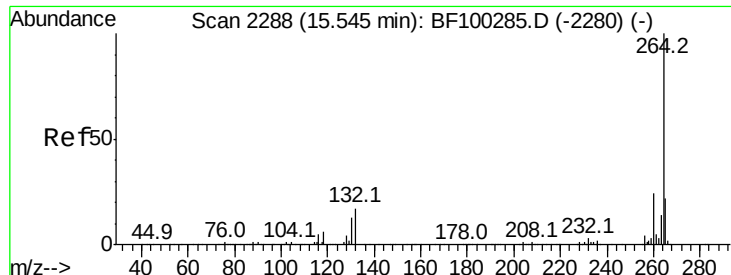


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

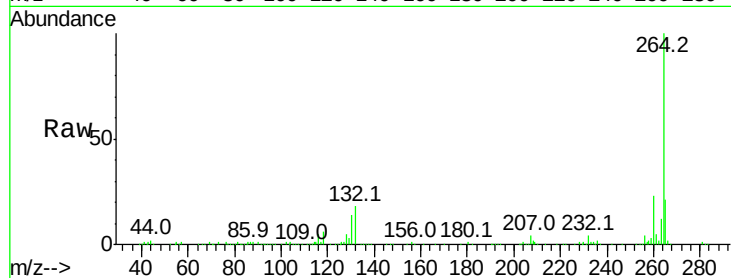




#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.54 min Scan# 2288  
 Delta R.T. -0.00 min  
 Lab File: BF100415.D  
 Acq: 11 Nov 2017 2:34

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.7  | 19.2  | 28.8  |
| 265     | 21.0  | 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

