

Data File : BF100558.D  
Acq On : 14 Nov 2017 22:17  
Operator : SJ/JU  
Sample : I6441-18 2X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-8

Quant Time: Nov 15 01:09:38 2017  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 14 14:17:16 2017  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.89  | 152  | 122452   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.17  | 136  | 455711   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.92  | 164  | 175661   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.40 | 188  | 296199   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12               | 14.04 | 240  | 274580   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12               | 15.52 | 264  | 188721   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.50  | 112  | 366659   | 48.00 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.50  | 99   | 436813   | 46.37 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.44  | 82   | 247043   | 35.84 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.70 | 330  | 72606    | 40.56 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.24  | 172  | 346439   | 30.03 | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.99 | 244  | 251348   | 21.03 | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       |          |
| 10) Phenol                     | 6.52  | 94   | 20736    | 2.10  | ng    | 95       |
| 19) n-Nitroso-di-n-propylamine | 7.44  | 70   | 31371    | 4.80  | ng    | # 81     |
| 25) Isophorone                 | 7.44  | 82   | 247038   | 17.05 | ng    | # 64     |
| 47) 2-Nitroaniline             | 9.23  | 65   | 376      | 2.89  | ng    | # 1      |
| 50) 2,6-Dinitrotoluene         | 9.92  | 165  | 22518    | 8.48  | ng    | # 26     |
| 56) 2,4-Dinitrotoluene         | 9.92  | 165  | 22518    | 6.72  | ng    | # 23     |
| 62) Azobenzene                 | 10.63 | 77   | 26379    | 2.09  | ng    | # 1      |
| 64) 4,6-Dinitro-2-methylphenol | 10.70 | 198  | 144      | 8.65  | ng    | # 15     |

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

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Misc :

ALS Vial : 23 Sample Multiplier: 1

Instrument :

BNA\_F

ClientSampleId :

TP-8

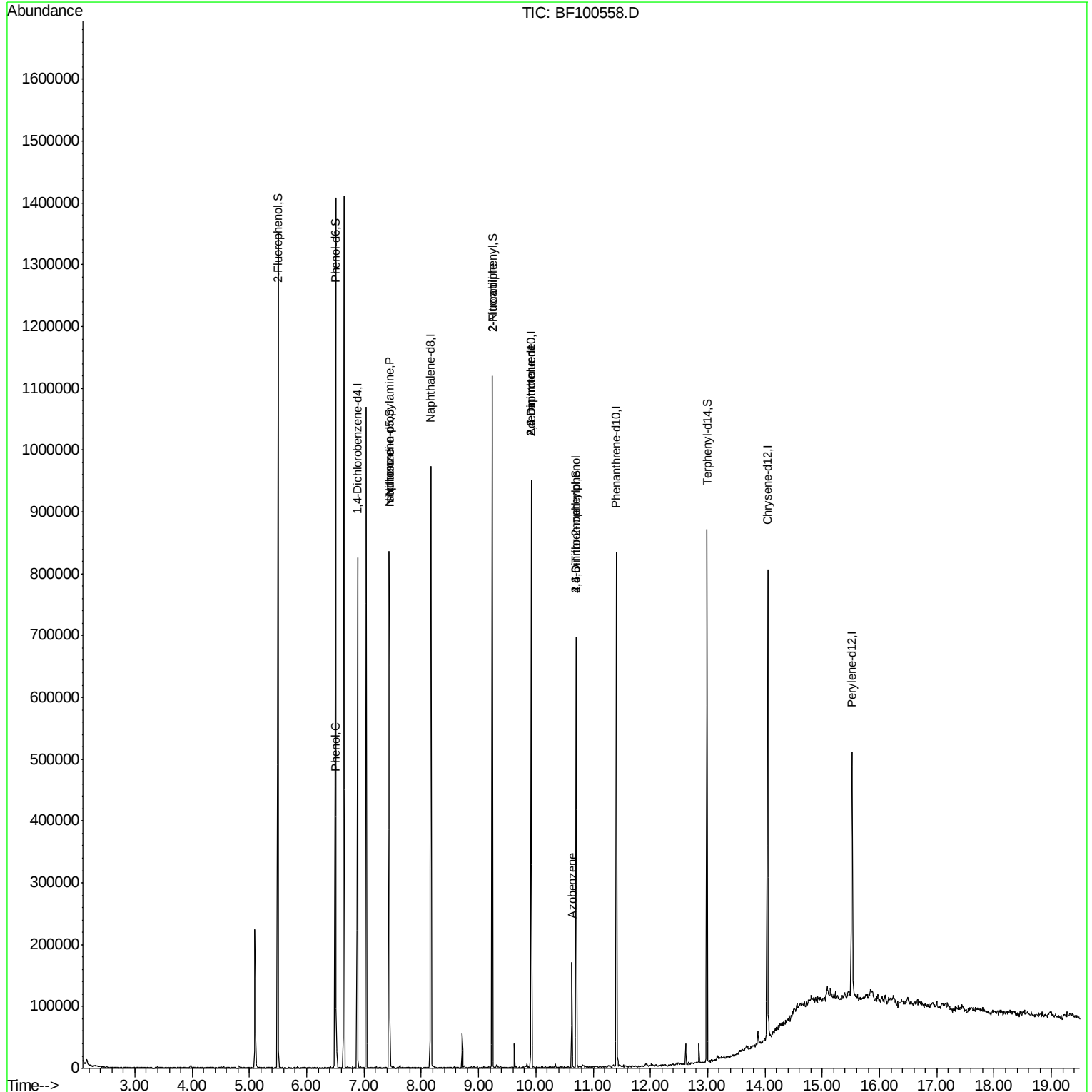
Quant Time: Nov 15 01:09:38 2017

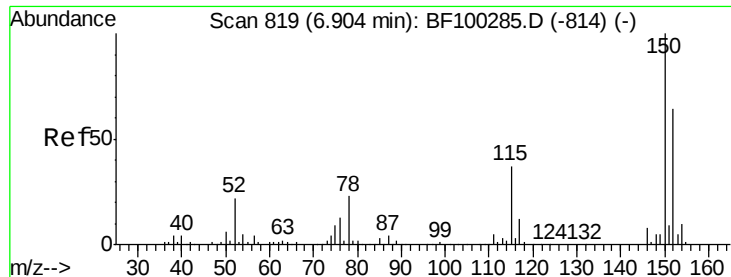
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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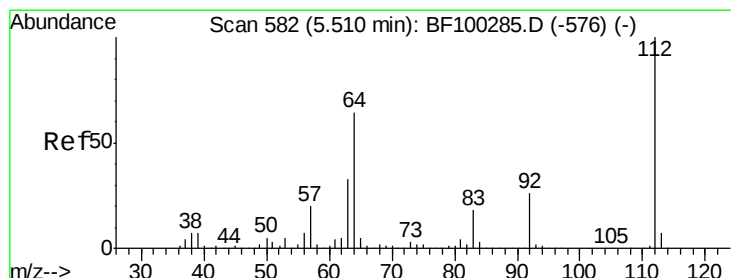
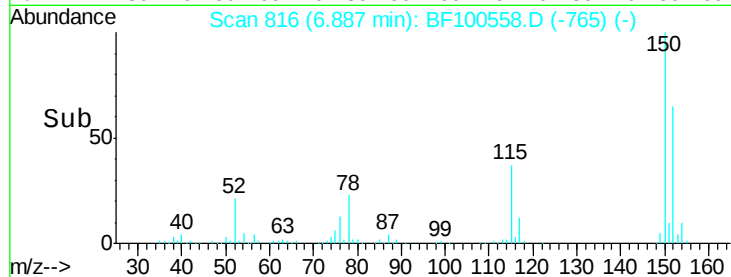
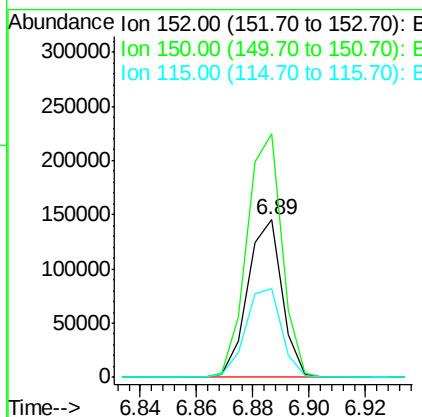
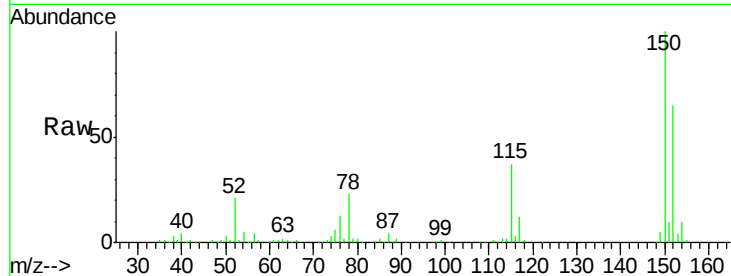




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.89 min Scan# 816  
 Delta R.T. 0.00 min  
 Lab File: BF100558.D  
 Acq: 14 Nov 2017 22:17

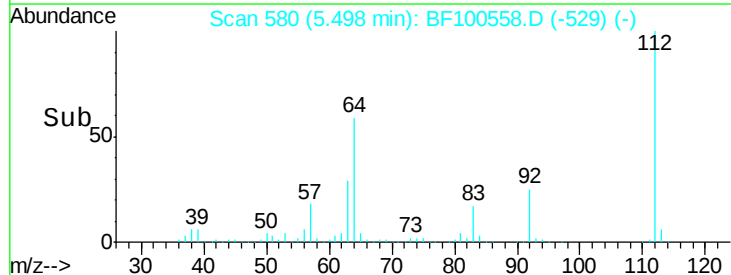
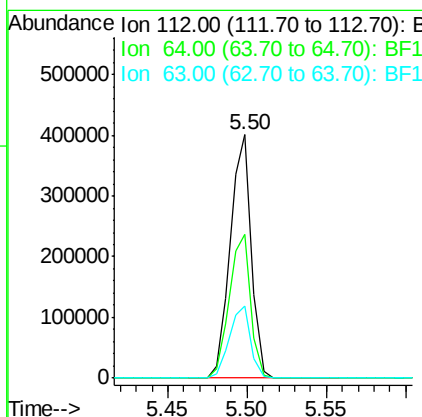
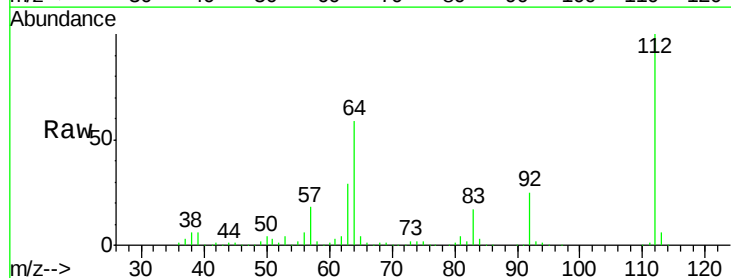
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-8

Tgt Ion:152 Resp: 122452  
 Ion Ratio Lower Upper  
 152 100  
 150 154.8 124.6 186.8  
 115 56.7 50.1 75.1



#5  
 2-Fluorophenol  
 Concen: 48.00 ng  
 RT: 5.50 min Scan# 580  
 Delta R.T. 0.00 min  
 Lab File: BF100558.D  
 Acq: 14 Nov 2017 22:17

Tgt Ion:112 Resp: 366659  
 Ion Ratio Lower Upper  
 112 100  
 64 59.1 47.9 71.9  
 63 29.4 23.7 35.5





#7

Phenol-d6

Concen: 46.37 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.01 min

Lab File: BF100558.D

Acq: 14 Nov 2017 22:17

Instrument :

BNA\_F

ClientSampleId :

TP-8

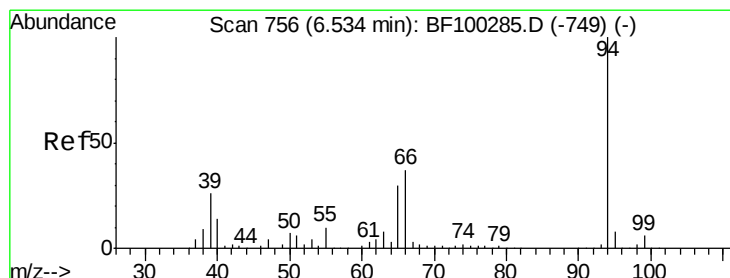
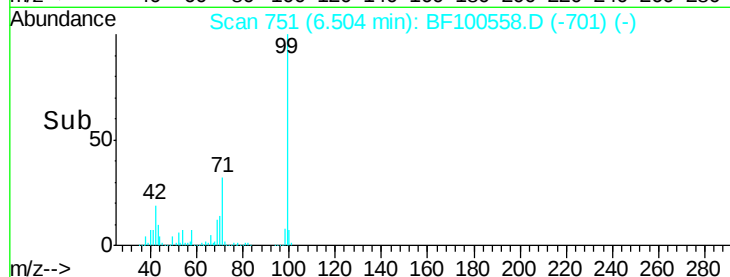
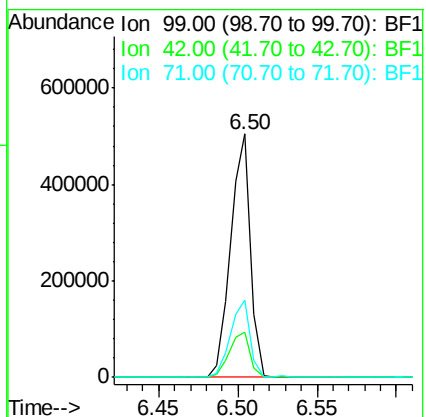
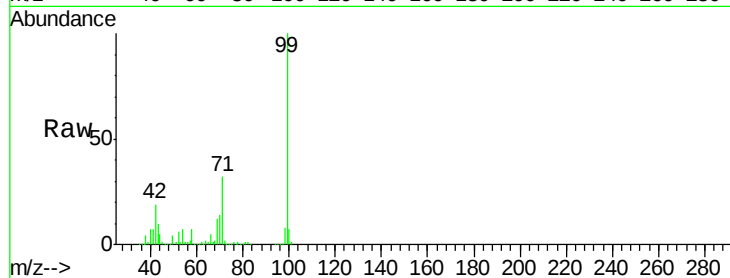
Tgt Ion: 99 Resp: 436813

Ion Ratio Lower Upper

99 100

42 18.7 14.5 21.7

71 31.6 25.4 38.0



#10

Phenol

Concen: 2.10 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.01 min

Lab File: BF100558.D

Acq: 14 Nov 2017 22:17

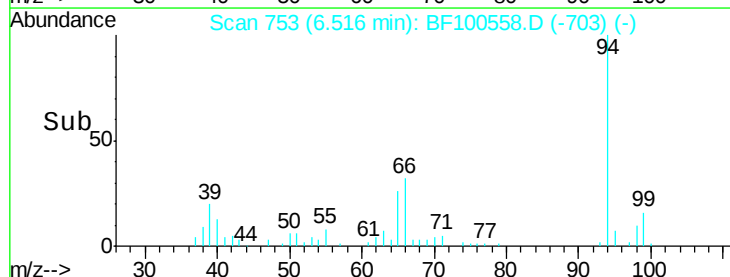
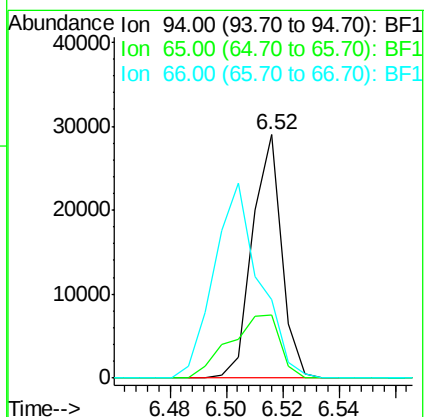
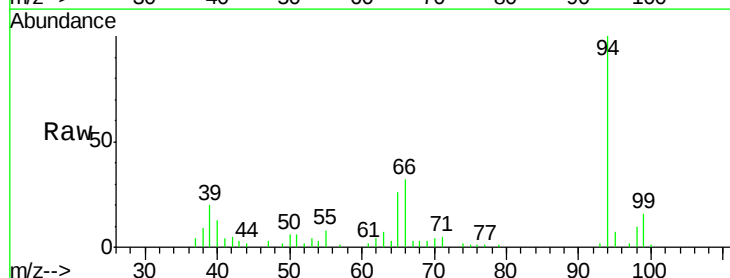
Tgt Ion: 94 Resp: 20736

Ion Ratio Lower Upper

94 100

65 25.8 7.9 47.9

66 32.3 16.2 56.2





#19

n-Nitroso-di-n-propylamine

Concen: 4.80 ng

RT: 7.44 min Scan# 910

Delta R.T. 0.14 min

Lab File: BF100558.D

Acq: 14 Nov 2017 22:17

Instrument :

BNA\_F

ClientSampleId :

TP-8

Tgt Ion: 70 Resp: 31371

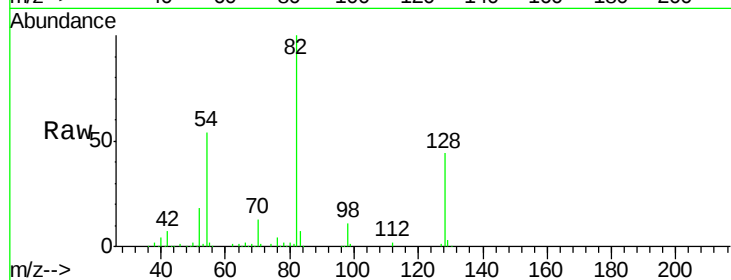
Ion Ratio Lower Upper

70 100

42 50.6 47.5 71.3

101 0.0 7.4 11.2#

130 2.9 16.6 25.0#

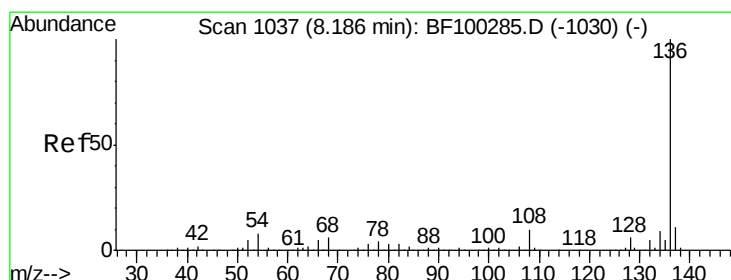
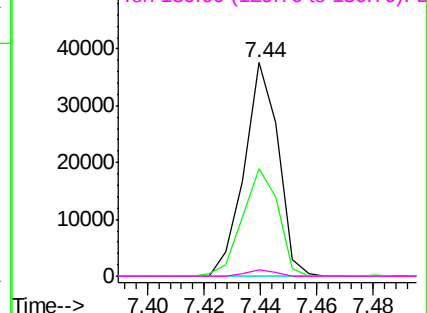
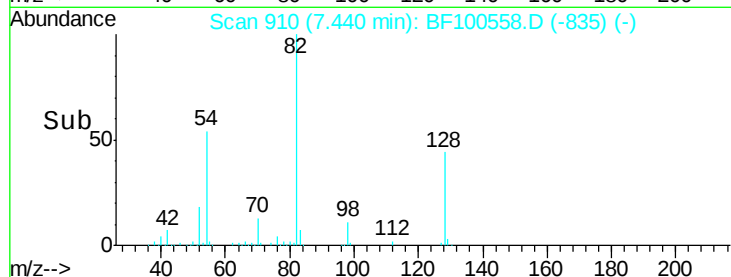


Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 20.00 ng

RT: 8.17 min Scan# 1034

Delta R.T. 0.00 min

Lab File: BF100558.D

Acq: 14 Nov 2017 22:17

Tgt Ion: 136 Resp: 455711

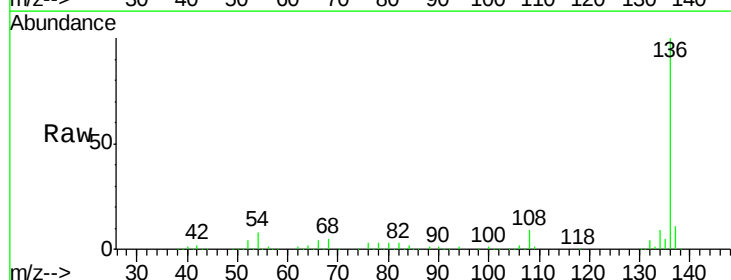
Ion Ratio Lower Upper

136 100

137 10.8 8.9 13.3

54 7.6 6.6 9.8

68 5.4 5.0 7.4

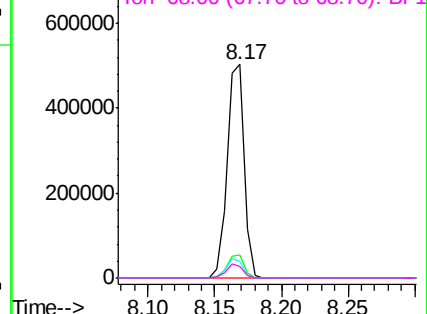
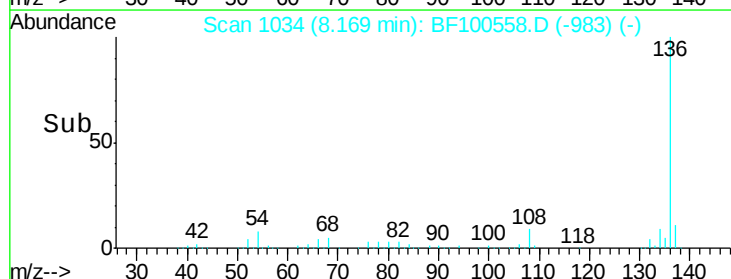


Abundance Ion 136.00 (135.70 to 136.70): BF1

Ion 137.00 (136.70 to 137.70): BF1

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

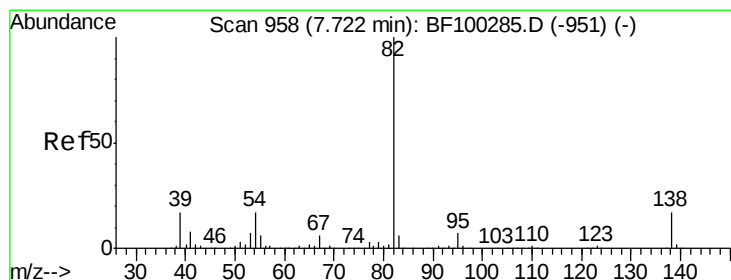
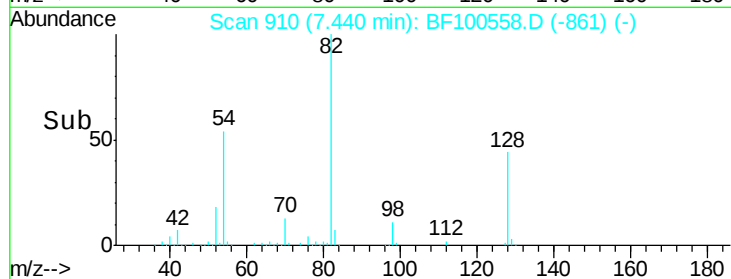
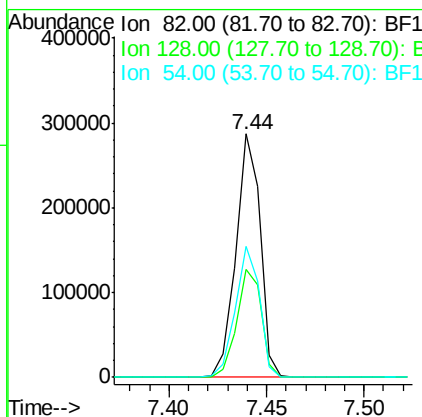
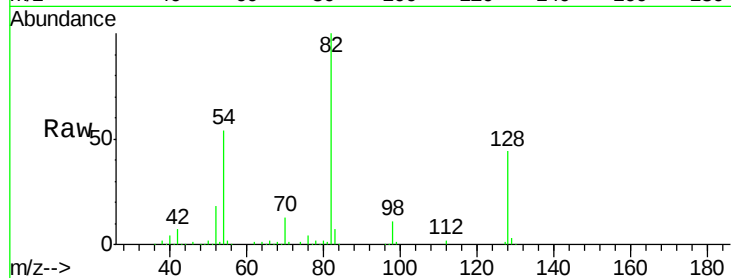




#23  
 Nitrobenzene-d5  
 Concen: 35.84 ng  
 RT: 7.44 min Scan# 910  
 Delta R.T. -0.01 min  
 Lab File: BF100558.D  
 Acq: 14 Nov 2017 22:17

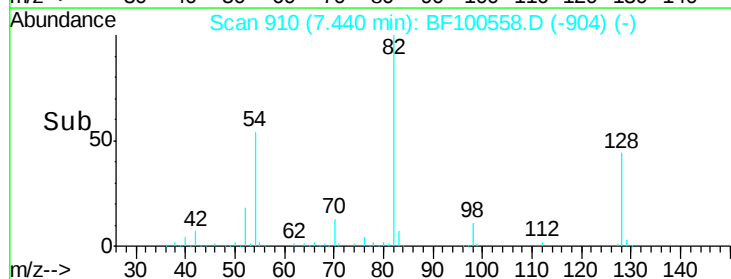
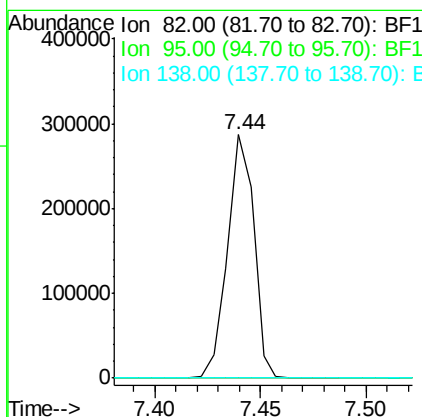
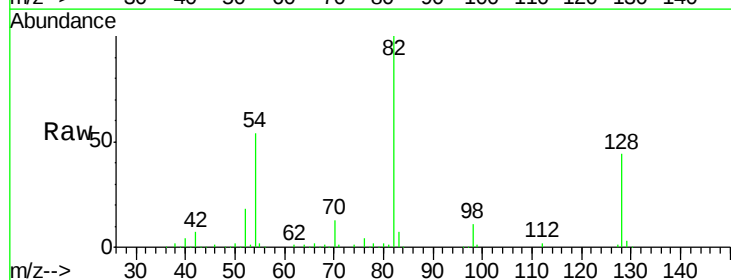
Instrument :  
 BNA\_F  
 ClientSampled :  
 TP-8

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 44.2  | 36.1  | 54.1  |
| 54      | 53.6  | 41.4  | 62.2  |



#25  
 Isophorone  
 Concen: 17.05 ng  
 RT: 7.44 min Scan# 910  
 Delta R.T. -0.26 min  
 Lab File: BF100558.D  
 Acq: 14 Nov 2017 22:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 95      | 0.0   | 5.2   | 7.8#  |
| 138     | 0.0   | 14.9  | 22.3# |

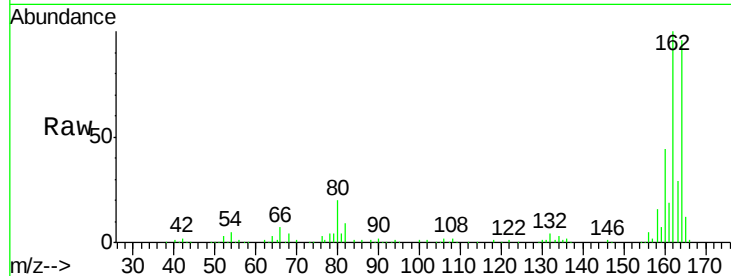




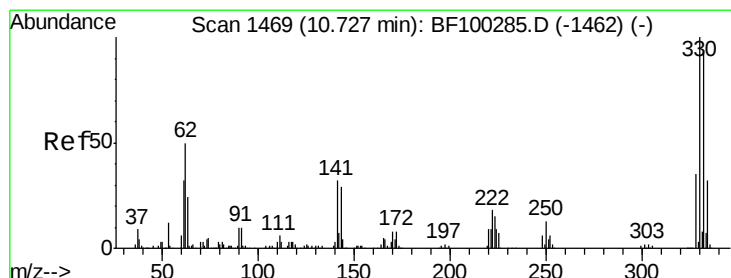
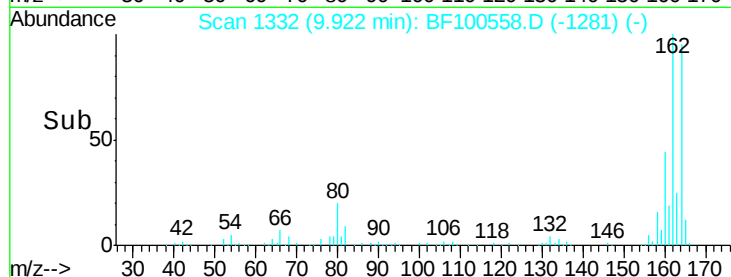
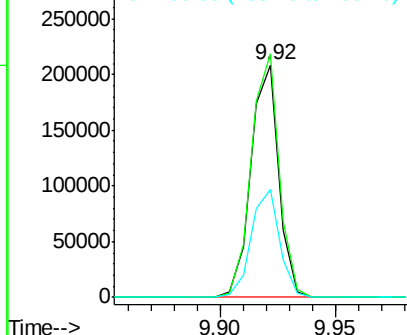
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.92 min Scan# 1332  
 Delta R.T. 0.00 min  
 Lab File: BF100558.D  
 Acq: 14 Nov 2017 22:17

Instrument :  
 BNA\_F  
 ClientSampled :  
 TP-8

Tgt Ion:164 Resp: 175661  
 Ion Ratio Lower Upper  
 164 100  
 162 104.6 86.1 129.1  
 160 46.2 38.3 57.5

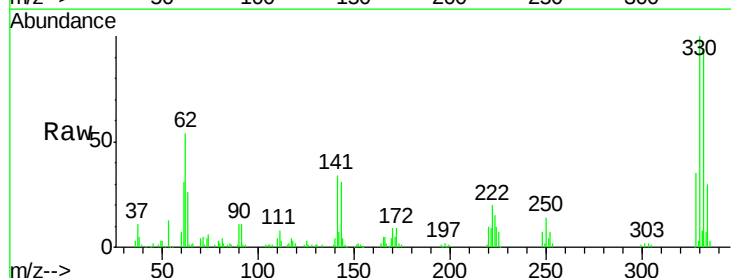


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

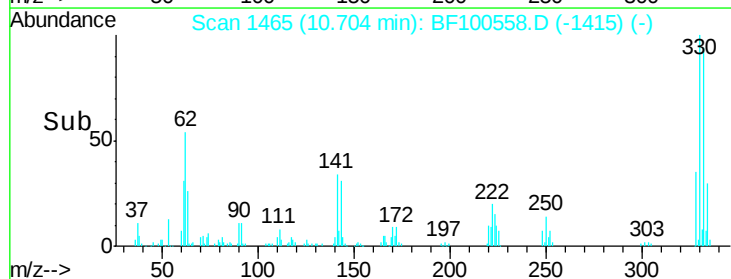
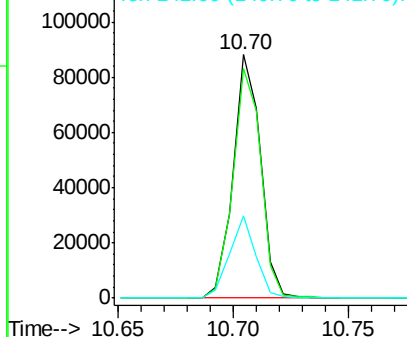


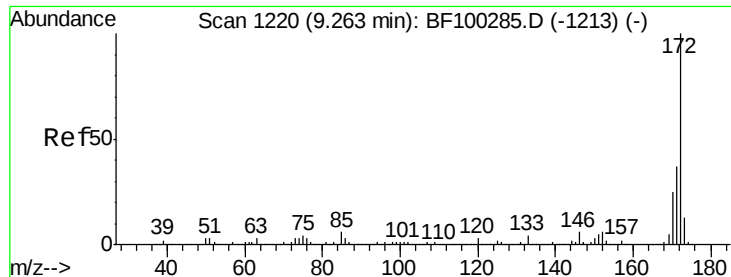
#41  
 2,4,6-Tribromophenol  
 Concen: 40.56 ng  
 RT: 10.70 min Scan# 1465  
 Delta R.T. -0.01 min  
 Lab File: BF100558.D  
 Acq: 14 Nov 2017 22:17

Tgt Ion:330 Resp: 72606  
 Ion Ratio Lower Upper  
 330 100  
 332 96.7 77.0 115.6  
 141 32.2 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

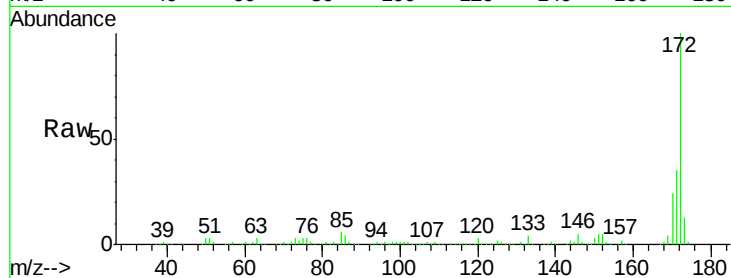




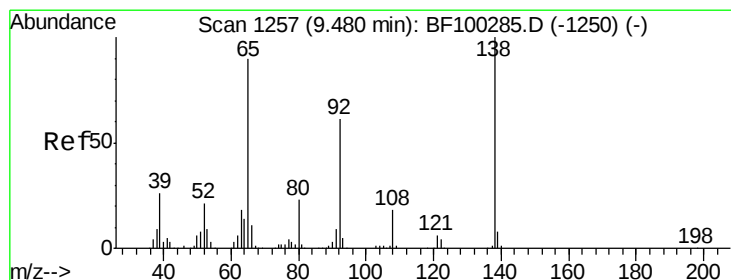
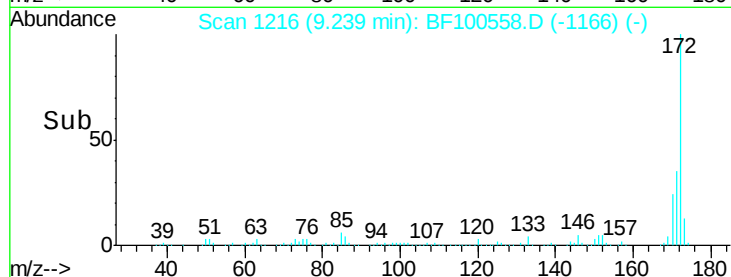
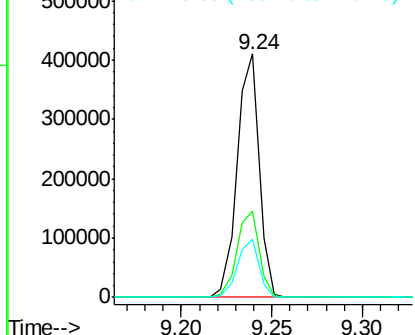
#44  
 2-Fluorobiphenyl  
 Concen: 30.03 ng  
 RT: 9.24 min Scan# 1216  
 Delta R.T. -0.01 min  
 Lab File: BF100558.D  
 Acq: 14 Nov 2017 22:17

Instrument :  
 BNA\_F  
 ClientSampled :  
 TP-8

Tgt Ion: 172 Resp: 346439  
 Ion Ratio Lower Upper  
 172 100  
 171 35.4 29.7 44.5  
 170 23.9 19.6 29.4

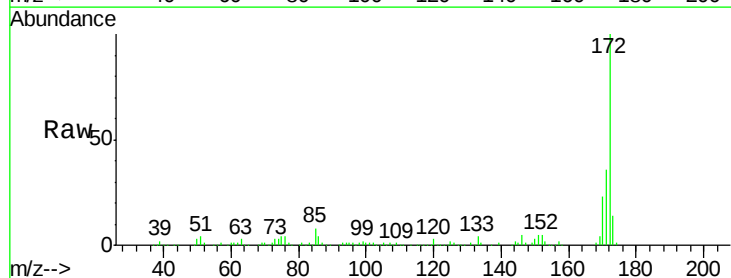


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

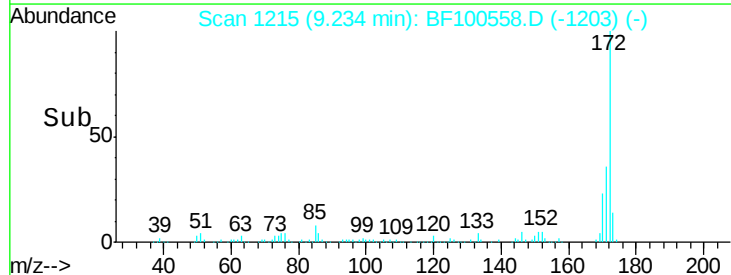
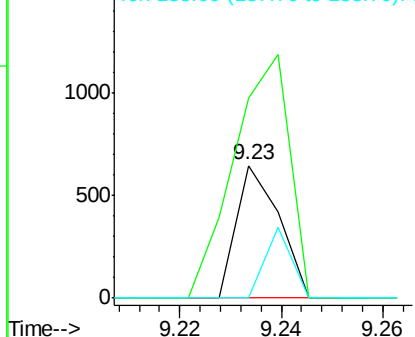


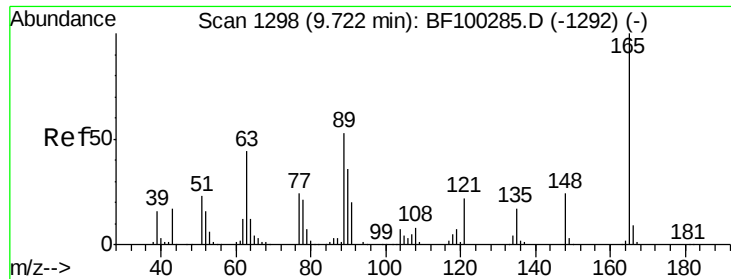
#47  
 2-Nitroaniline  
 Concen: 2.89 ng  
 RT: 9.23 min Scan# 1215  
 Delta R.T. -0.23 min  
 Lab File: BF100558.D  
 Acq: 14 Nov 2017 22:17

Tgt Ion: 65 Resp: 376  
 Ion Ratio Lower Upper  
 65 100  
 92 150.7 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): E

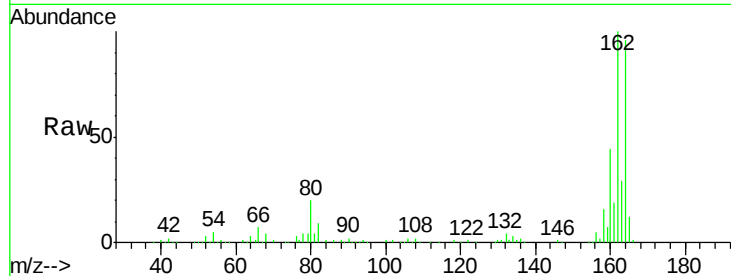




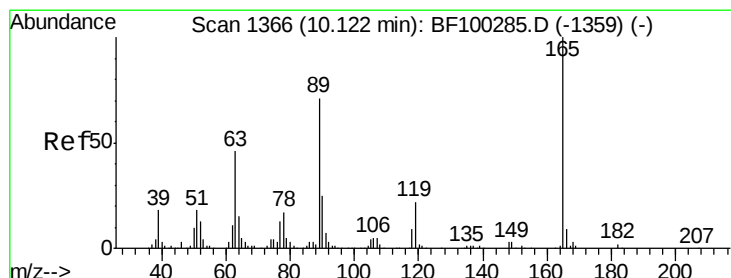
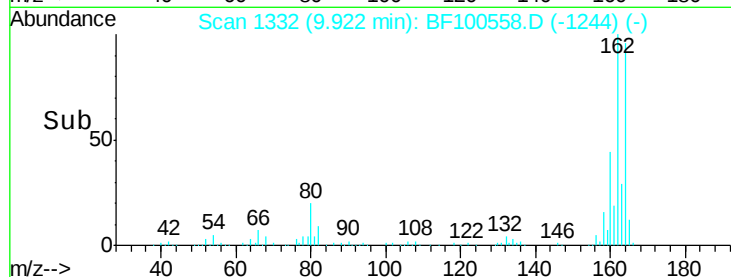
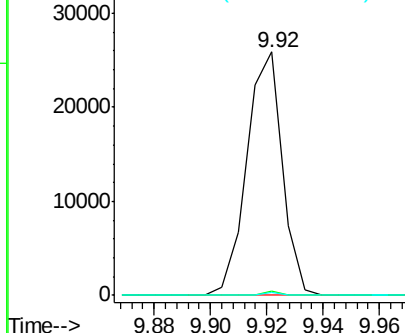
#50  
2,6-Dinitrotoluene  
Concen: 8.48 ng  
RT: 9.92 min Scan# 1332  
Delta R.T. 0.22 min  
Lab File: BF100558.D  
Acq: 14 Nov 2017 22:17

Instrument :  
BNA\_F  
ClientSampleId :  
TP-8

Tgt Ion:165 Resp: 22518  
Ion Ratio Lower Upper  
165 100  
63 1.8 44.7 67.1#  
89 1.3 44.0 66.0#



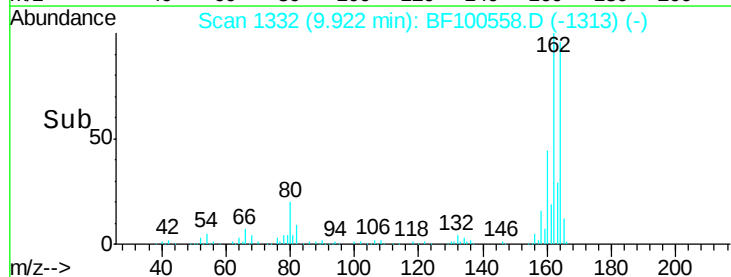
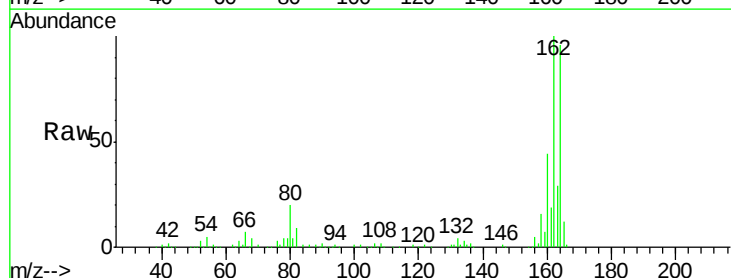
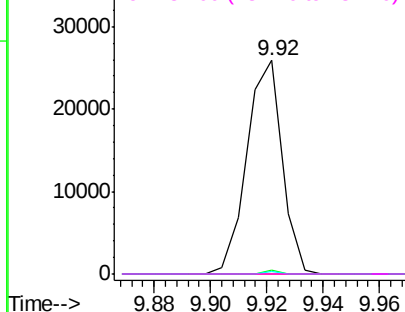
Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 89.00 (88.70 to 89.70): BF1

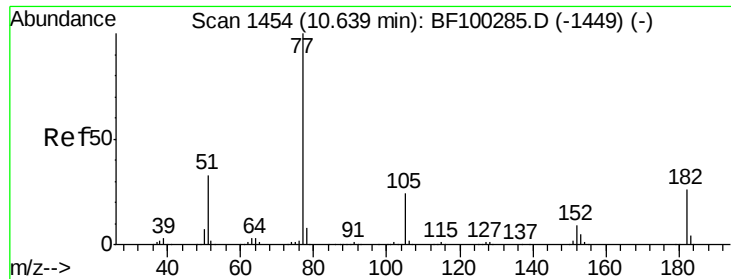


#56  
2,4-Dinitrotoluene  
Concen: 6.72 ng  
RT: 9.92 min Scan# 1332  
Delta R.T. -0.19 min  
Lab File: BF100558.D  
Acq: 14 Nov 2017 22:17

Tgt Ion:165 Resp: 22518  
Ion Ratio Lower Upper  
165 100  
63 1.8 36.4 54.6#  
89 1.3 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





#62

Azobenzene

Concen: 2.09 ng

RT: 10.63 min Scan# 1452

Delta R.T. 0.01 min

Lab File: BF100558.D

Acq: 14 Nov 2017 22:17

Instrument :

BNA\_F

ClientSampleId :

TP-8

Tgt Ion: 77 Resp: 26379

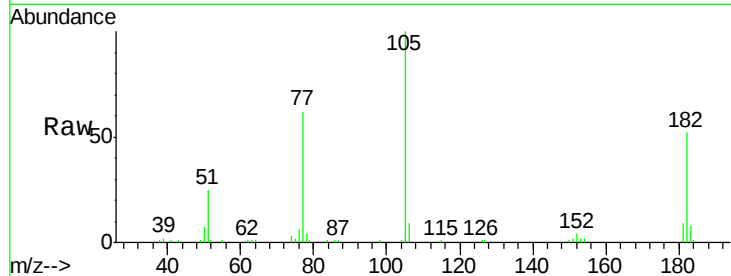
Ion Ratio Lower Upper

77 100

182 83.7 1.7 41.7#

105 162.5 3.0 43.0#

51 40.0 9.9 49.9

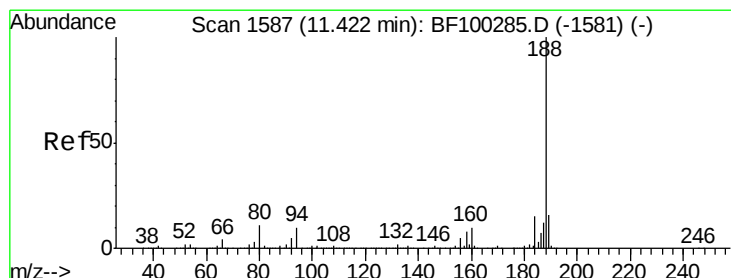
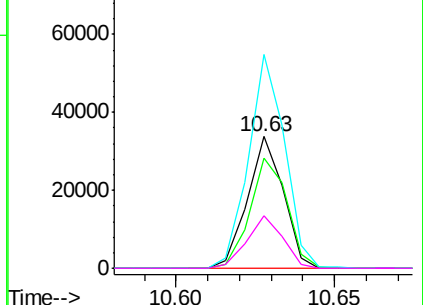
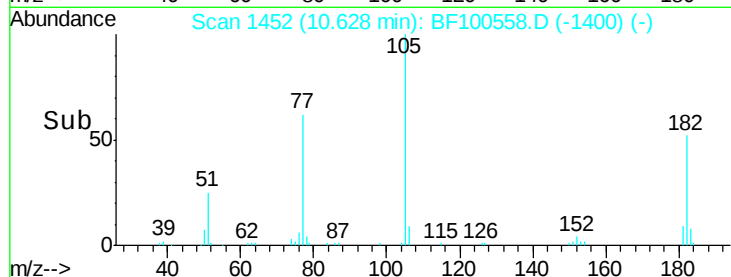


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 182.00 (181.70 to 182.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 51.00 (50.70 to 51.70): BF1



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.40 min Scan# 1584

Delta R.T. -0.01 min

Lab File: BF100558.D

Acq: 14 Nov 2017 22:17

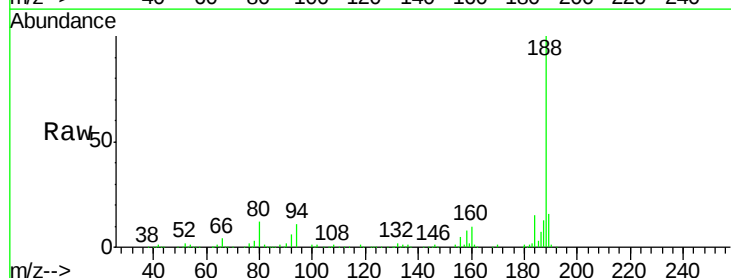
Tgt Ion: 188 Resp: 296199

Ion Ratio Lower Upper

188 100

94 11.0 8.5 12.7

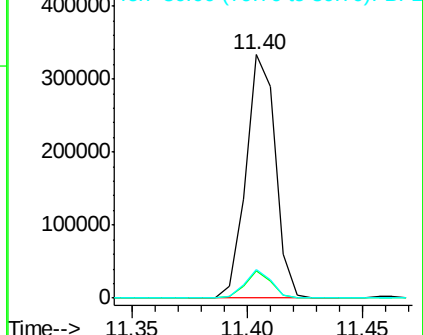
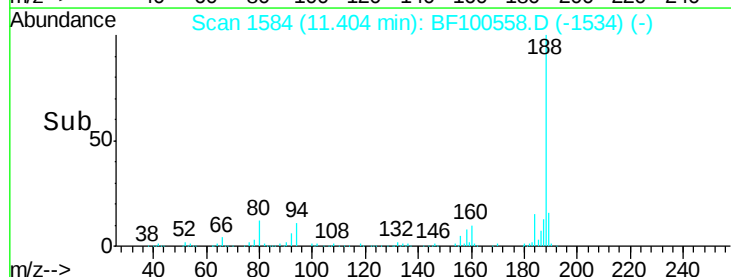
80 11.9 9.2 13.8



Abundance Ion 188.00 (187.70 to 188.70): BF1

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

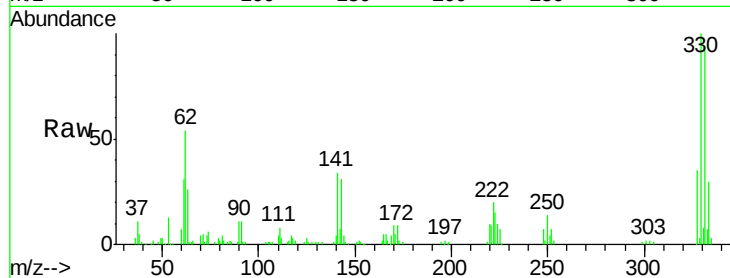




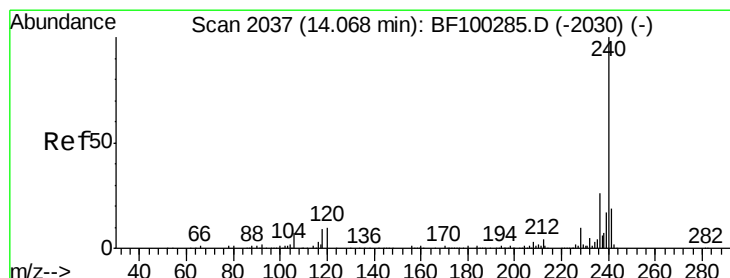
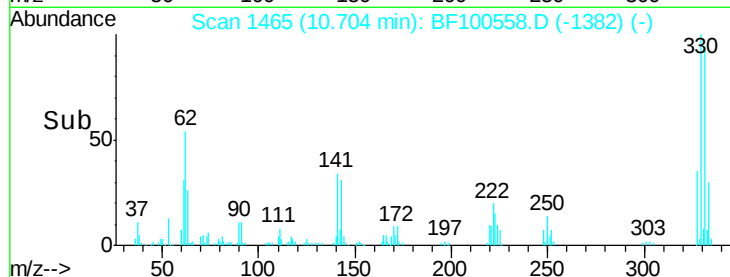
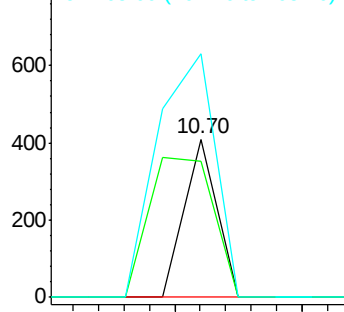
#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 8.65 ng  
 RT: 10.70 min Scan# 1465  
 Delta R.T. 0.19 min  
 Lab File: BF100558.D  
 Acq: 14 Nov 2017 22:17

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-8

Tgt Ion:198 Resp: 144  
 Ion Ratio Lower Upper  
 198 100  
 51 85.8 37.7 77.7#  
 105 154.3 36.3 76.3#

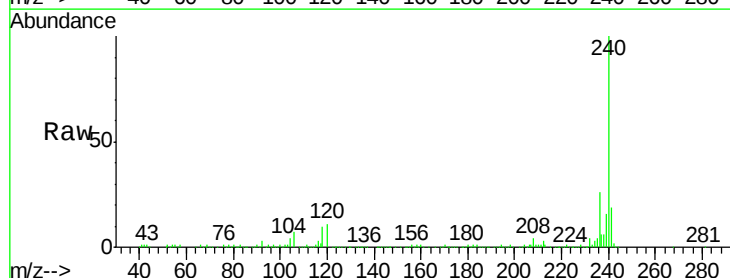


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF1  
 Ion 105.00 (104.70 to 105.70): E

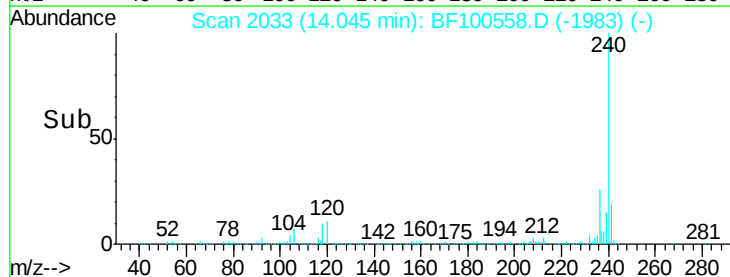
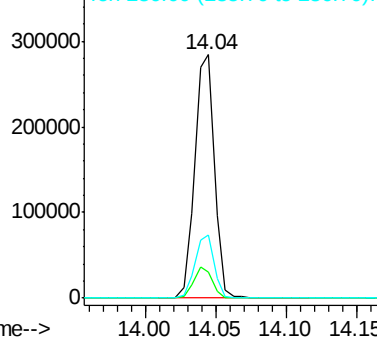


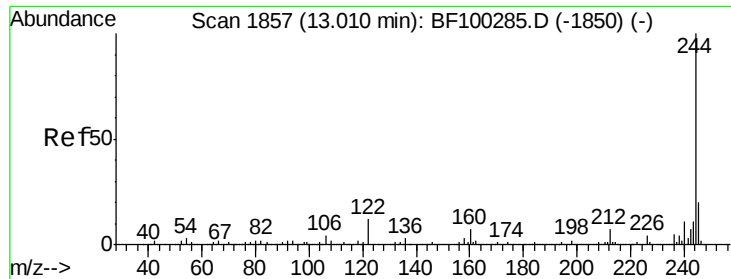
#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 14.04 min Scan# 2033  
 Delta R.T. -0.01 min  
 Lab File: BF100558.D  
 Acq: 14 Nov 2017 22:17

Tgt Ion:240 Resp: 274580  
 Ion Ratio Lower Upper  
 240 100  
 120 10.9 9.5 14.3  
 236 25.9 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

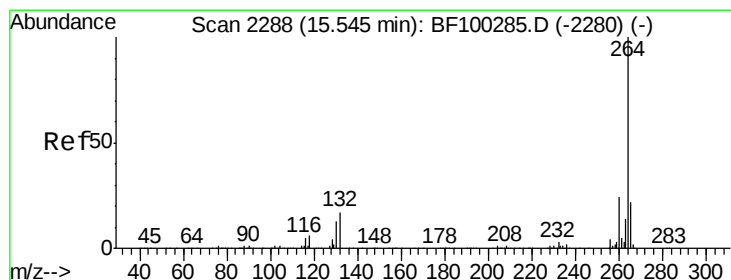
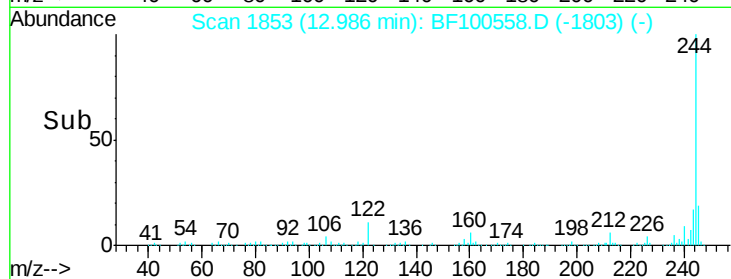
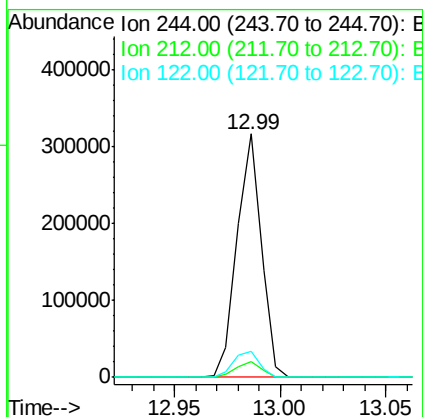
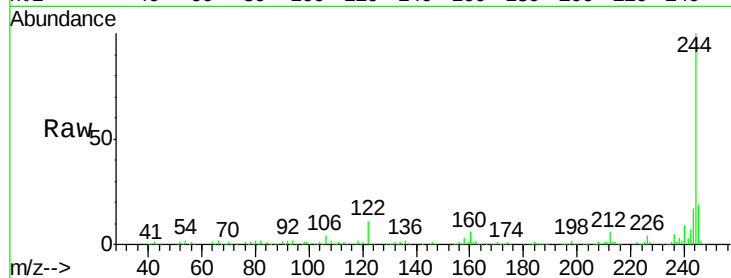




#78  
 Terphenyl-d14  
 Concen: 21.03 ng  
 RT: 12.99 min Scan# 1853  
 Delta R.T. -0.01 min  
 Lab File: BF100558.D  
 Acq: 14 Nov 2017 22:17

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-8

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.3   | 5.4   | 8.0   |
| 122     | 10.9  | 11.0  | 16.4  |



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.52 min Scan# 2283  
 Delta R.T. -0.01 min  
 Lab File: BF100558.D  
 Acq: 14 Nov 2017 22:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.8  | 19.2  | 28.8  |
| 265     | 21.3  | 17.5  | 26.3  |

