

Data File : BF100458.D  
Acq On : 12 Nov 2017 00:24  
Operator : SJ/JU  
Sample : I6369-03  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
110617-TIDO-F-U-B

Quant Time: Nov 13 04:41:27 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  | 141070   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.19  | 136  | 512856   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.94  | 164  | 205924   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.43 | 188  | 323907   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.06 | 240  | 292553   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.55 | 264  | 208887   | 20.00 | ng    | 0.00     |

|                             |       |     |         |        |    |       |
|-----------------------------|-------|-----|---------|--------|----|-------|
| System Monitoring Compounds |       |     |         |        |    |       |
| 5) 2-Fluorophenol           | 5.52  | 112 | 418398  | 47.54  | ng | 0.00  |
| 7) Phenol-d6                | 6.52  | 99  | 326796  | 30.11  | ng | -0.01 |
| 23) Nitrobenzene-d5         | 7.47  | 82  | 827690  | 106.70 | ng | 0.00  |
| 41) 2,4,6-Tribromophenol    | 10.73 | 330 | 174674  | 83.24  | ng | 0.00  |
| 44) 2-Fluorobiphenyl        | 9.26  | 172 | 1407866 | 104.11 | ng | 0.00  |
| 78) Terphenyl-d14           | 13.01 | 244 | 996961  | 78.30  | ng | 0.00  |

|                                |       |     |        |       |    |        |
|--------------------------------|-------|-----|--------|-------|----|--------|
| Target Compounds               |       |     |        |       |    | Qvalue |
| 19) n-Nitroso-di-n-propylamine | 7.47  | 70  | 109070 | 14.49 | ng | # 82   |
| 25) Isophorone                 | 7.47  | 82  | 824428 | 50.57 | ng | # 64   |
| 47) 2-Nitroaniline             | 9.26  | 65  | 2287   | 3.35  | ng | # 3    |
| 50) 2,6-Dinitrotoluene         | 9.94  | 165 | 25869  | 8.31  | ng | # 26   |
| 56) 2,4-Dinitrotoluene         | 9.94  | 165 | 25869  | 6.59  | ng | # 23   |
| 62) Azobenzene                 | 10.65 | 77  | 37652  | 2.54  | ng | # 1    |
| 64) 4,6-Dinitro-2-methylphenol | 10.72 | 198 | 258    | 8.70  | ng | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.73 | 248 | 11004  | 3.17  | ng | # 1    |

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

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110617-TIDO-F-U-B

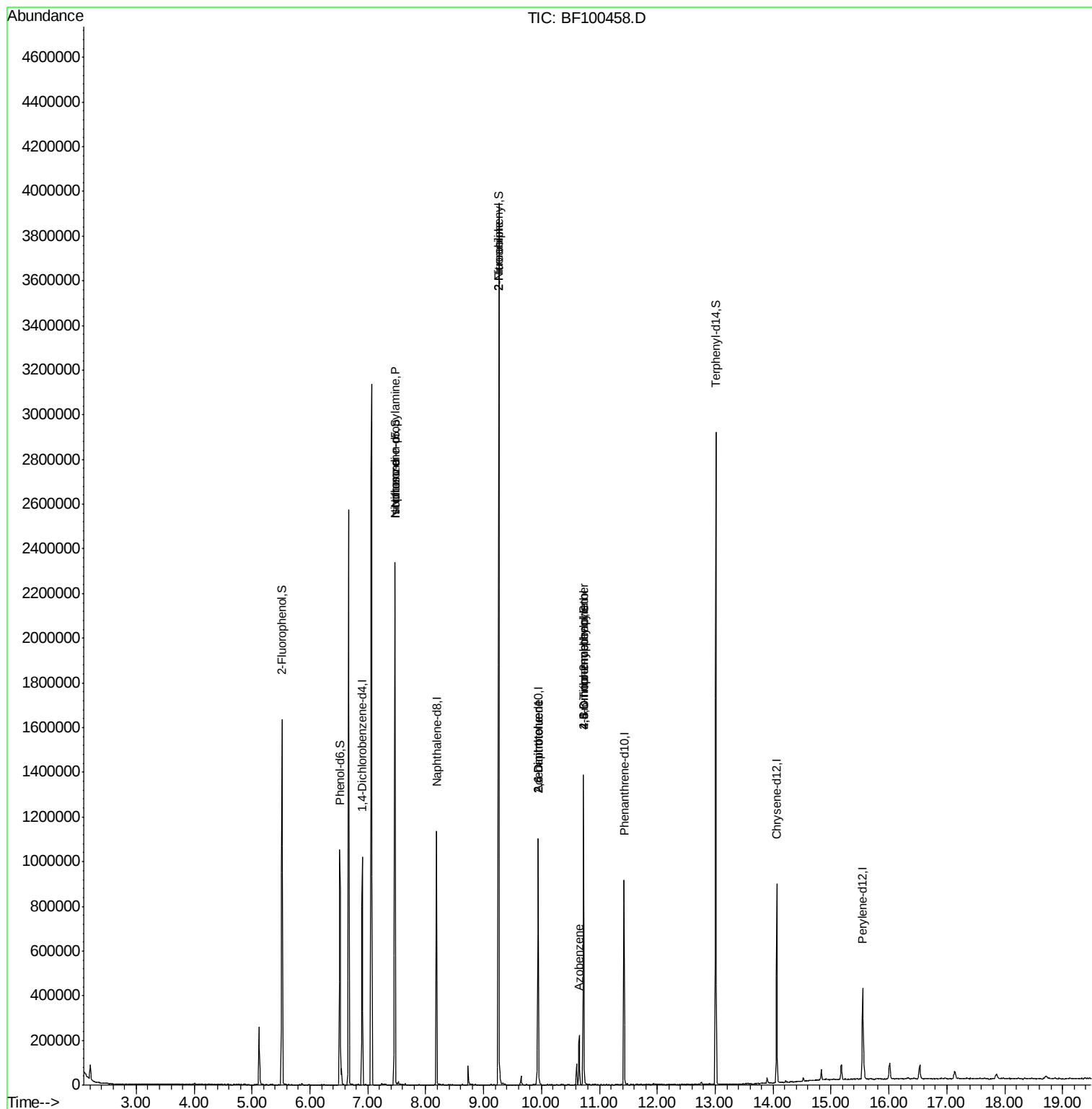
Quant Time: Nov 13 04:41:27 2017

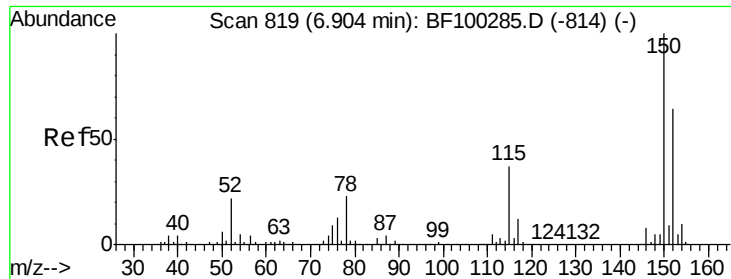
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110817.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Nov 10 15:44:40 2017

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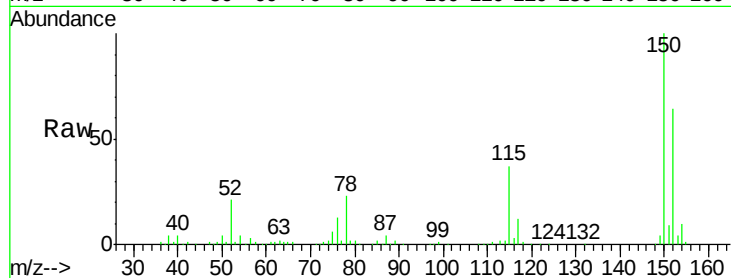




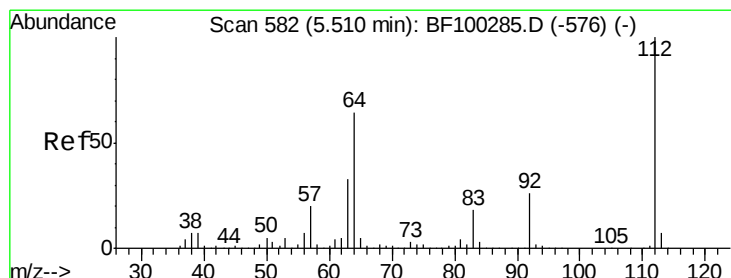
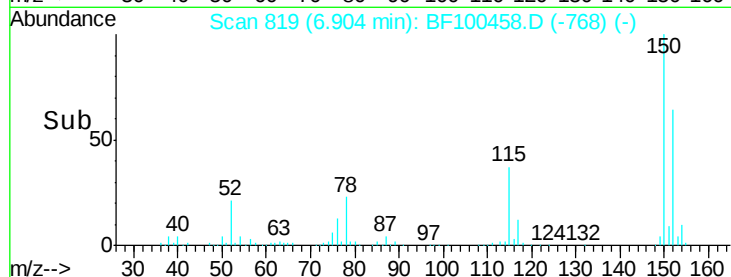
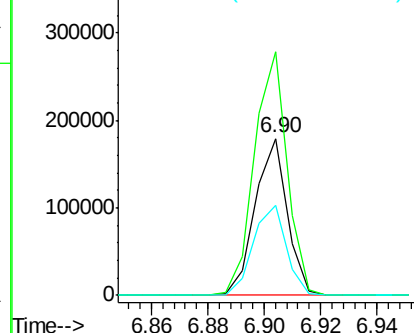
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.90 min Scan# 819  
 Delta R.T. -0.00 min  
 Lab File: BF100458.D  
 Acq: 12 Nov 2017 00:24

Instrument :  
 BNA\_F  
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 110617-TIDO-F-U-B

Tgt Ion:152 Resp: 141070  
 Ion Ratio Lower Upper  
 152 100  
 150 155.4 124.6 186.8  
 115 57.1 50.1 75.1

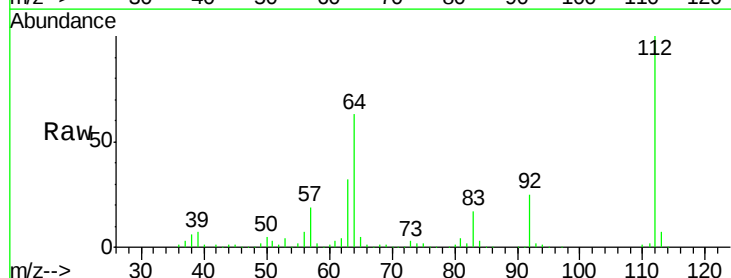


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

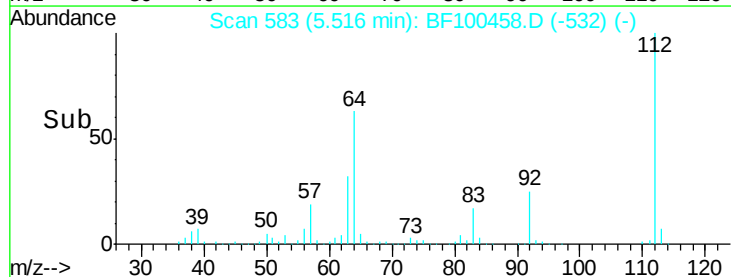
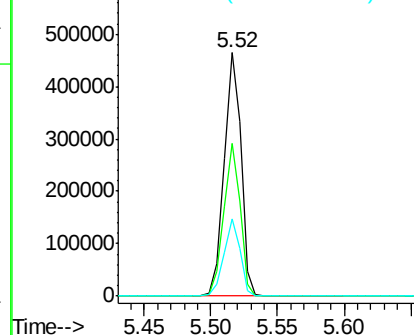


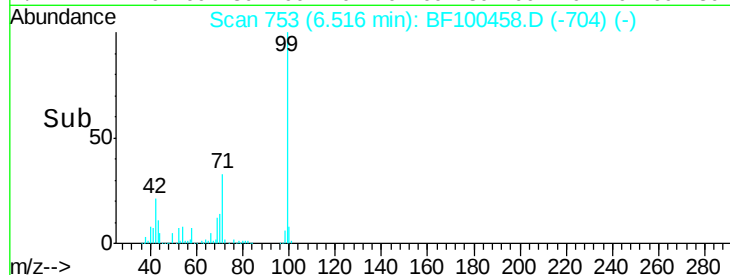
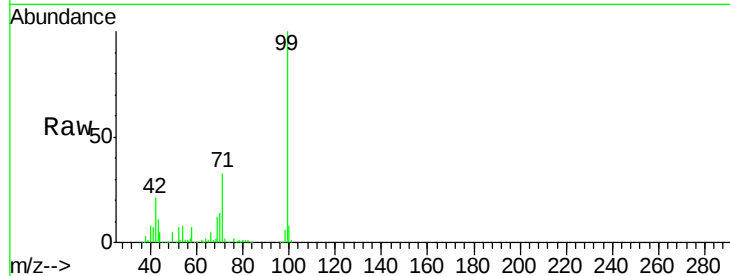
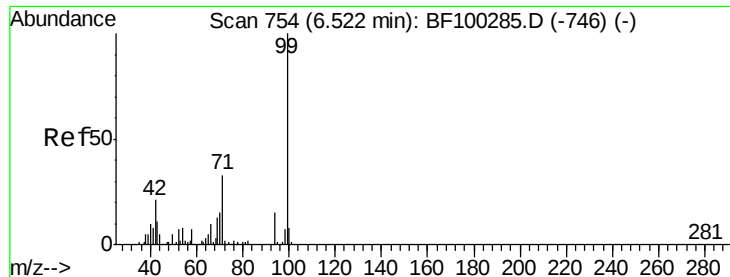
#5  
 2-Fluorophenol  
 Concen: 47.54 ng  
 RT: 5.52 min Scan# 583  
 Delta R.T. -0.00 min  
 Lab File: BF100458.D  
 Acq: 12 Nov 2017 00:24

Tgt Ion:112 Resp: 418398  
 Ion Ratio Lower Upper  
 112 100  
 64 62.8 47.9 71.9  
 63 31.5 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: 30.11 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.01 min

Lab File: BF100458.D

Acq: 12 Nov 2017 00:24

Instrument :

BNA\_F

ClientSampleId :

110617-TIDO-F-U-B

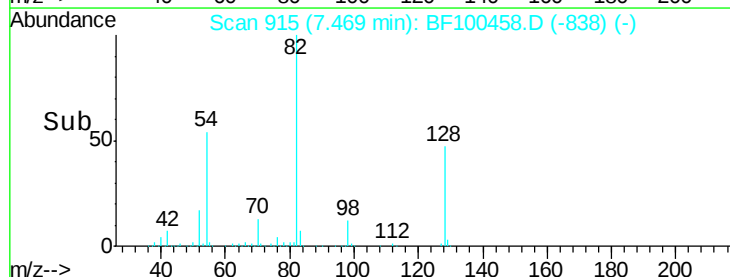
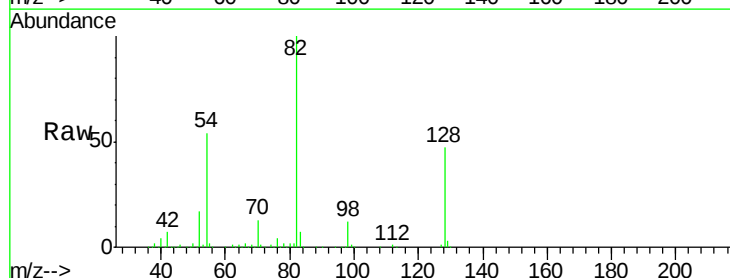
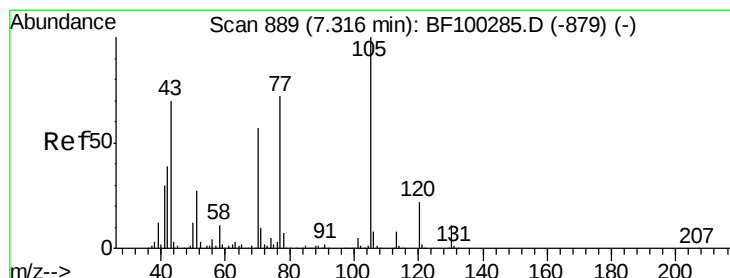
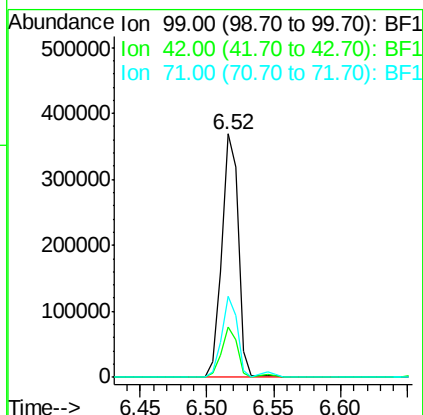
Tgt Ion: 99 Resp: 326796

Ion Ratio Lower Upper

99 100

42 20.9 14.5 21.7

71 33.2 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 14.49 ng

RT: 7.47 min Scan# 915

Delta R.T. 0.15 min

Lab File: BF100458.D

Acq: 12 Nov 2017 00:24

Tgt Ion: 70 Resp: 109070

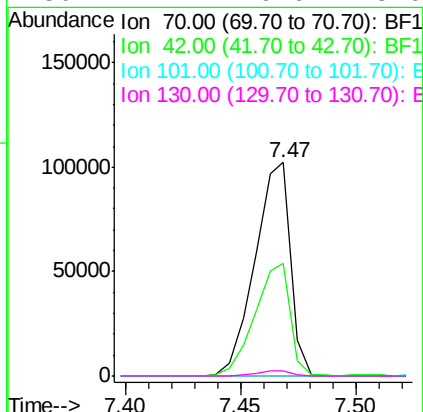
Ion Ratio Lower Upper

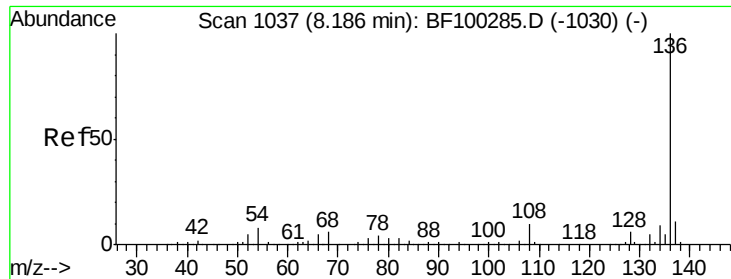
70 100

42 52.7 47.5 71.3

101 0.0 7.4 11.2#

130 2.7 16.6 25.0#

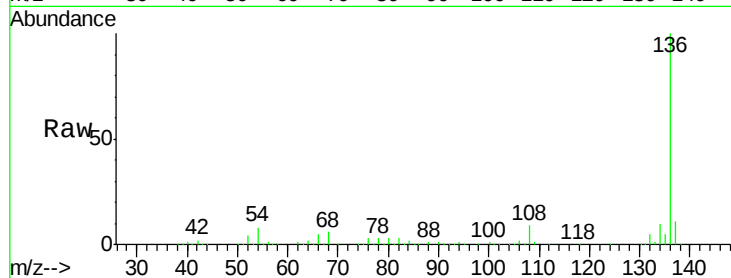




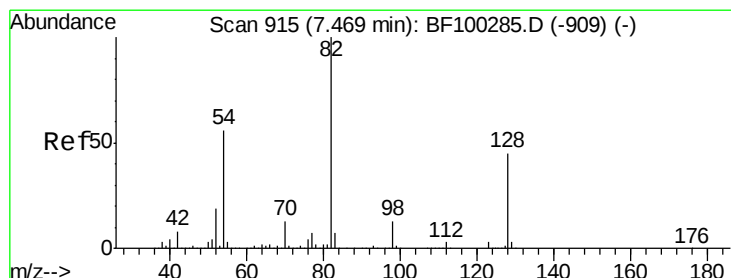
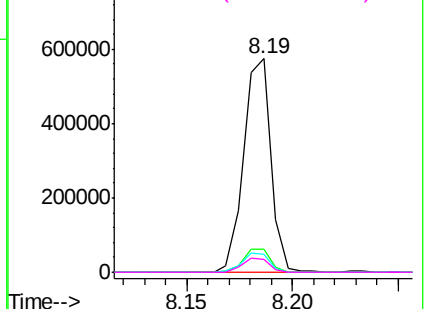
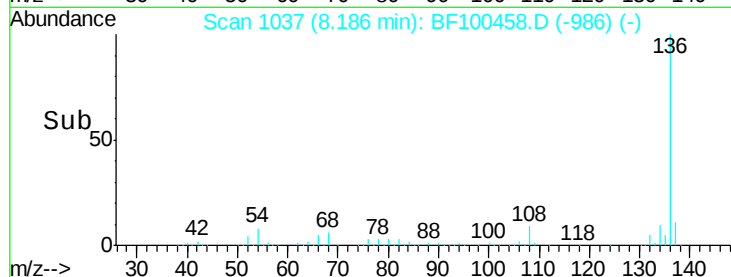
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.19 min Scan# 1037  
Delta R.T. -0.00 min  
Lab File: BF100458.D  
Acq: 12 Nov 2017 00:24

Instrument :  
BNA\_F  
ClientSampleId :  
110617-TIDO-F-U-B

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 512856 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.9  | 8.9   | 13.3   |
| 54       | 8.1   | 6.6   | 9.8    |
| 68       | 5.8   | 5.0   | 7.4    |

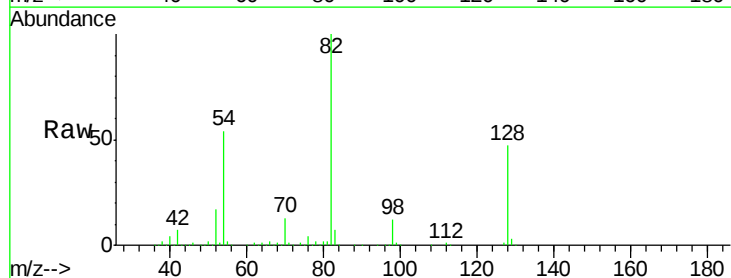


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

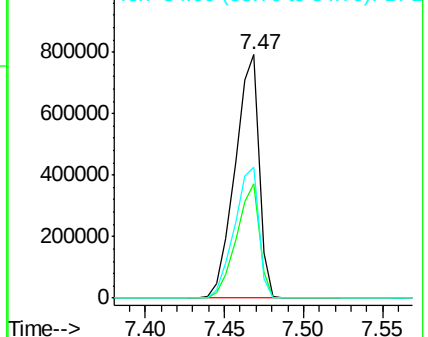
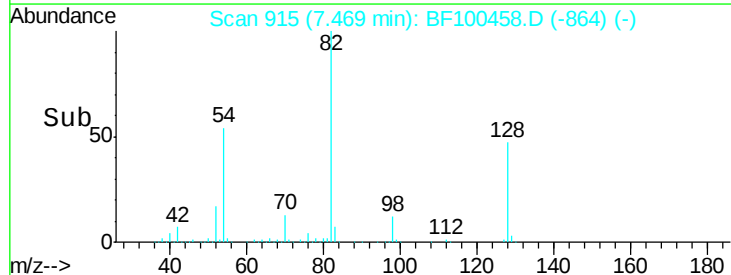


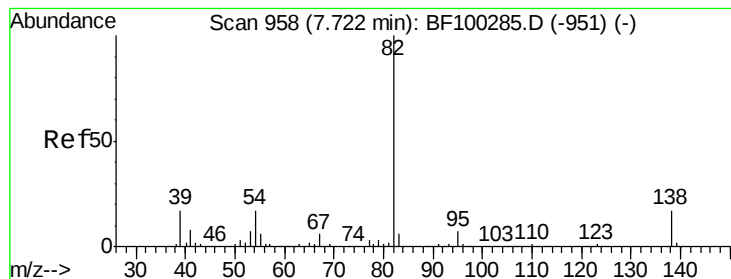
#23  
Nitrobenzene-d5  
Concen: 106.70 ng  
RT: 7.47 min Scan# 915  
Delta R.T. -0.00 min  
Lab File: BF100458.D  
Acq: 12 Nov 2017 00:24

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 827690 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 46.9  | 36.1  | 54.1   |
| 54       | 53.8  | 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: 50.57 ng

RT: 7.47 min Scan# 915

Delta R.T. -0.26 min

Lab File: BF100458.D

Acq: 12 Nov 2017 00:24

Instrument :

BNA\_F

ClientSampleId :

110617-TIDO-F-U-B

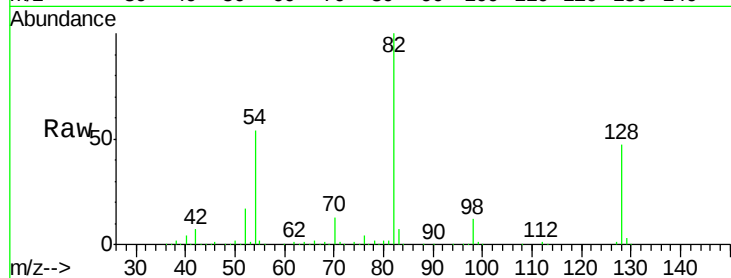
Tgt Ion: 82 Resp: 824428

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

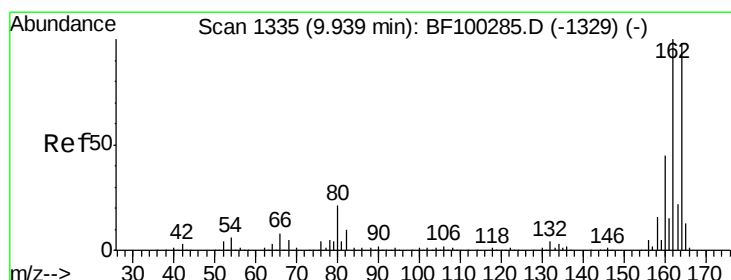
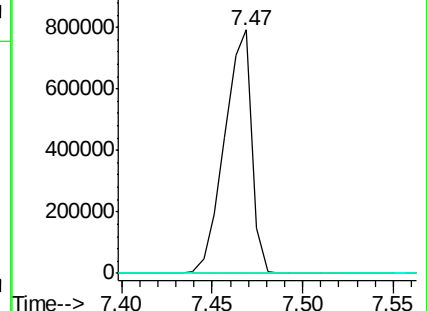
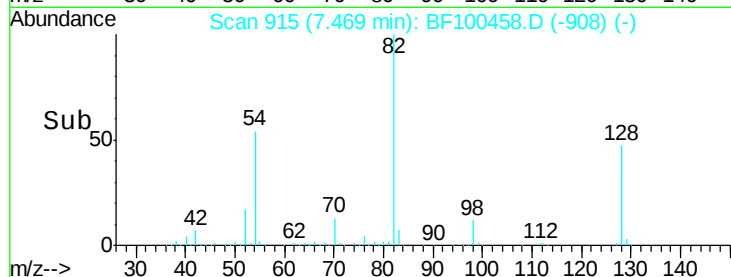
138 0.0 14.9 22.3#



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: 9.94 min Scan# 1335

Delta R.T. -0.01 min

Lab File: BF100458.D

Acq: 12 Nov 2017 00:24

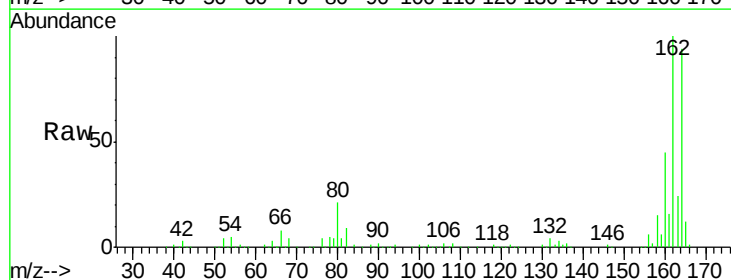
Tgt Ion: 164 Resp: 205924

Ion Ratio Lower Upper

164 100

162 106.4 86.1 129.1

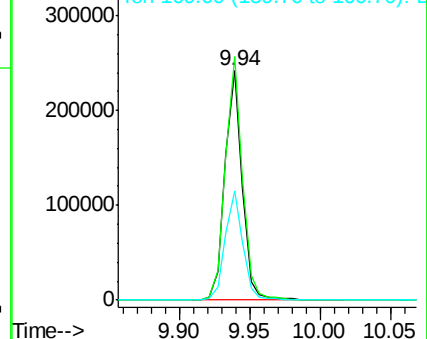
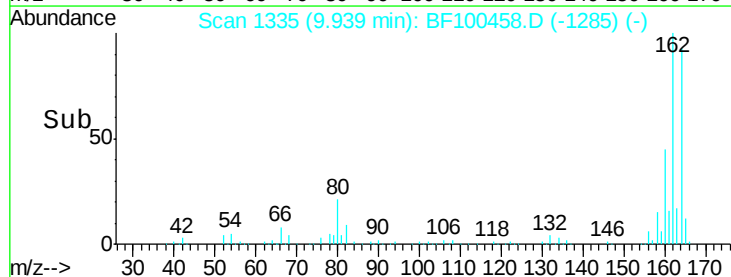
160 47.5 38.3 57.5

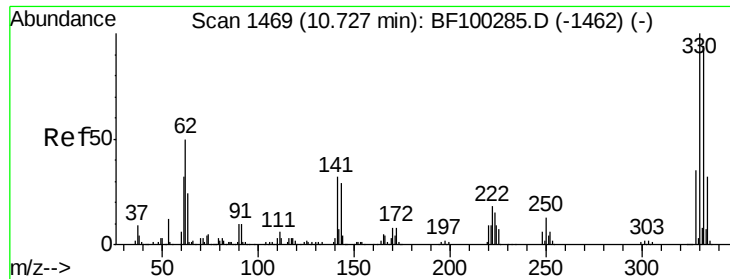


Abundance Ion 164.00 (163.70 to 164.70): BF1

Ion 162.00 (161.70 to 162.70): BF1

Ion 160.00 (159.70 to 160.70): BF1

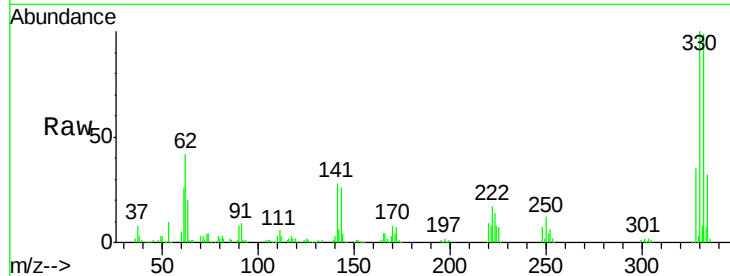




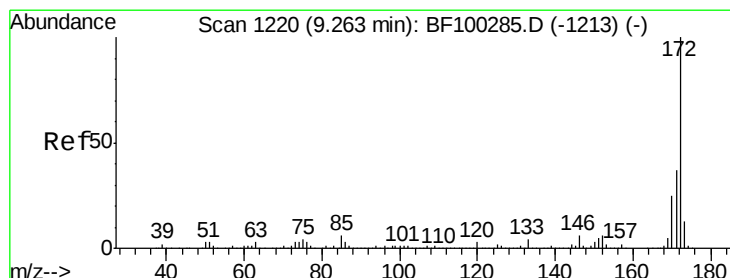
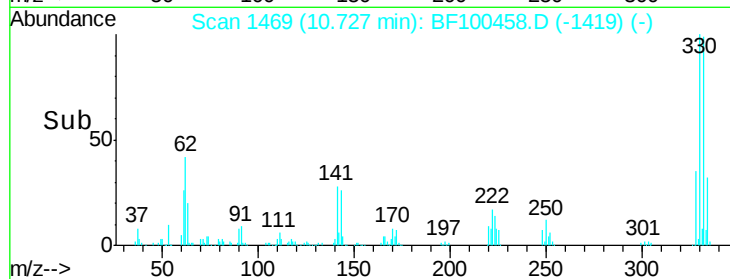
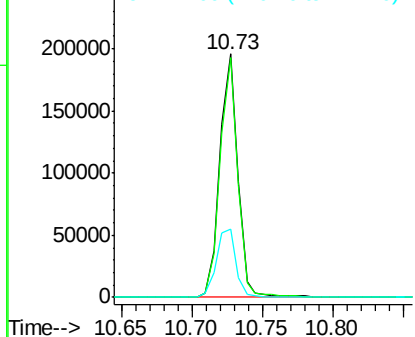
#41  
 2,4,6-Tribromophenol  
 Concen: 83.24 ng  
 RT: 10.73 min Scan# 1469  
 Delta R.T. -0.01 min  
 Lab File: BF100458.D  
 Acq: 12 Nov 2017 00:24

Instrument :  
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 110617-TIDO-F-U-B

Tgt Ion:330 Resp: 174674  
 Ion Ratio Lower Upper  
 330 100  
 332 97.2 77.0 115.6  
 141 30.4 29.9 44.9

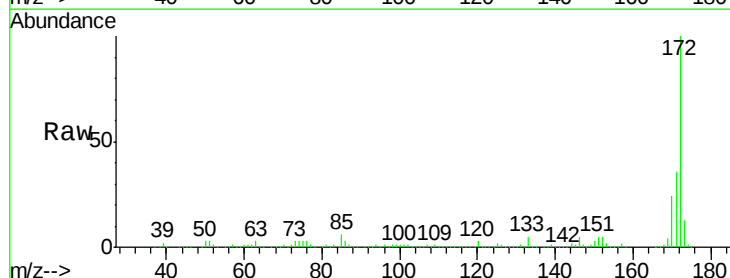


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

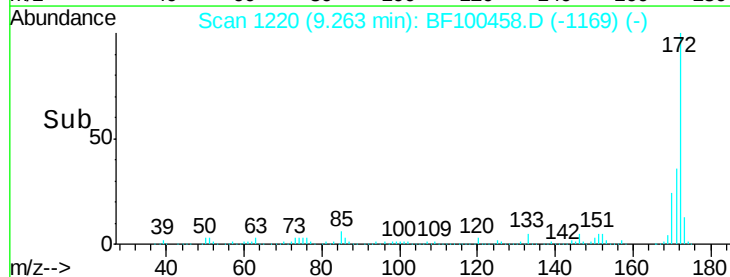
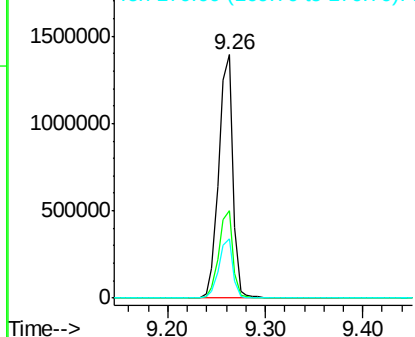


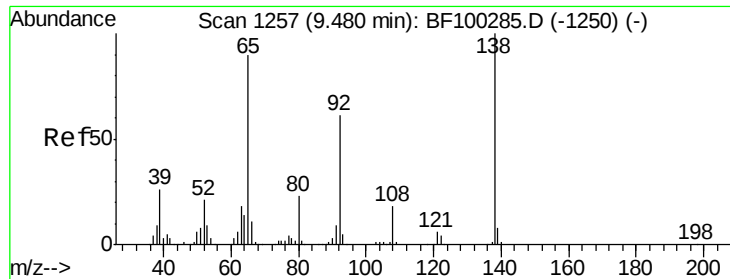
#44  
 2-Fluorobiphenyl  
 Concen: 104.11 ng  
 RT: 9.26 min Scan# 1220  
 Delta R.T. -0.00 min  
 Lab File: BF100458.D  
 Acq: 12 Nov 2017 00:24

Tgt Ion:172 Resp: 1407866  
 Ion Ratio Lower Upper  
 172 100  
 171 36.2 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





#47

2-Nitroaniline

Concen: 3.35 ng

RT: 9.26 min Scan# 1219

Delta R.T. -0.22 min

Lab File: BF100458.D

Acq: 12 Nov 2017 00:24

Instrument :

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ClientSampleId :

110617-TIDO-F-U-B

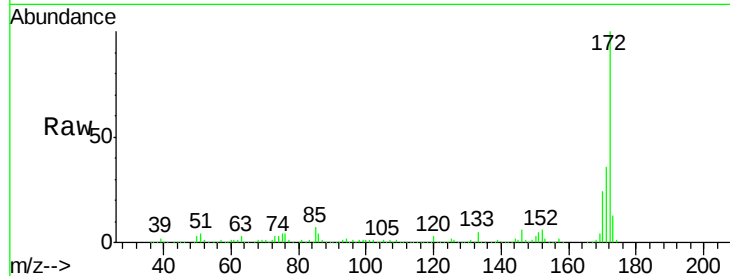
Tgt Ion: 65 Resp: 2287

Ion Ratio Lower Upper

65 100

92 167.8 55.8 83.6#

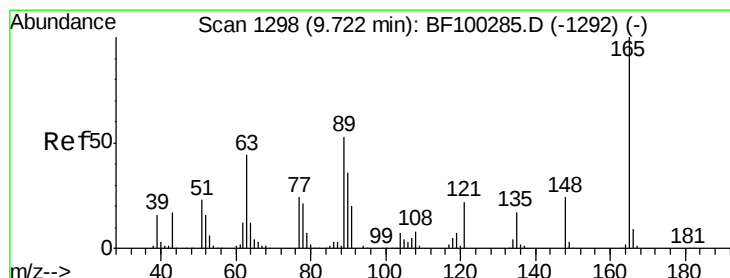
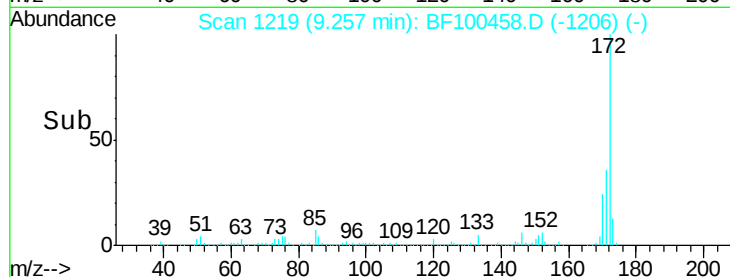
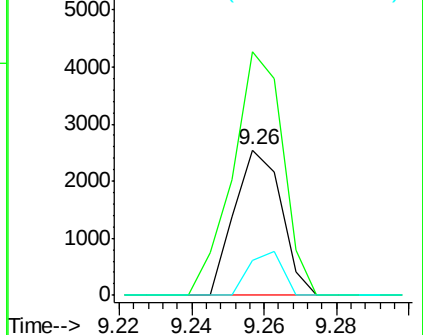
138 24.4 91.2 136.8#



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: 8.31 ng

RT: 9.94 min Scan# 1335

Delta R.T. 0.22 min

Lab File: BF100458.D

Acq: 12 Nov 2017 00:24

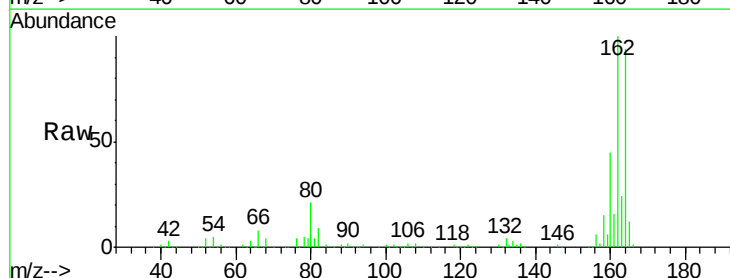
Tgt Ion:165 Resp: 25869

Ion Ratio Lower Upper

165 100

63 1.8 44.7 67.1#

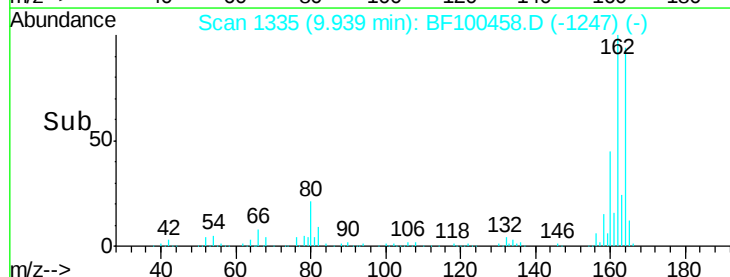
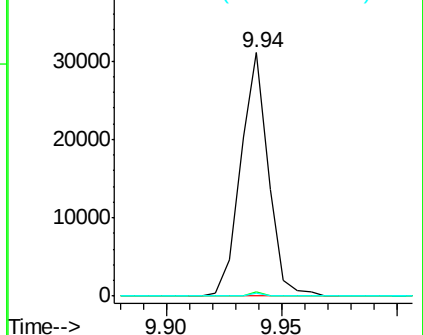
89 1.4 44.0 66.0#

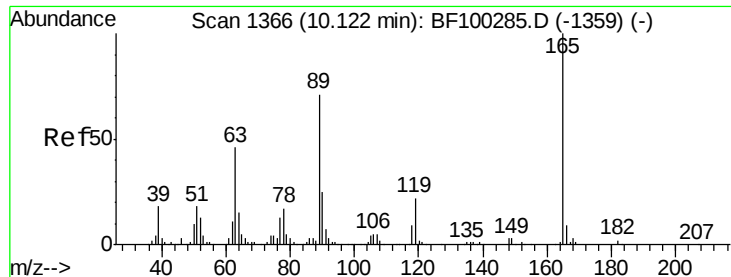


Abundance Ion 165.00 (164.70 to 165.70): BF1

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

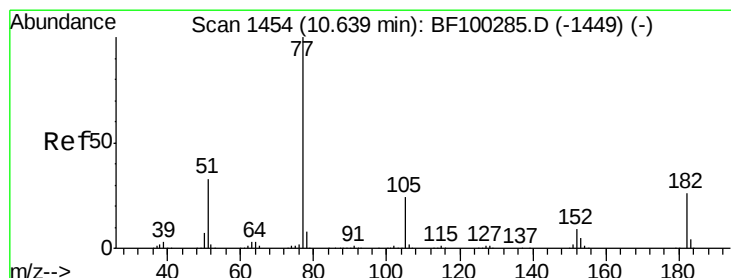
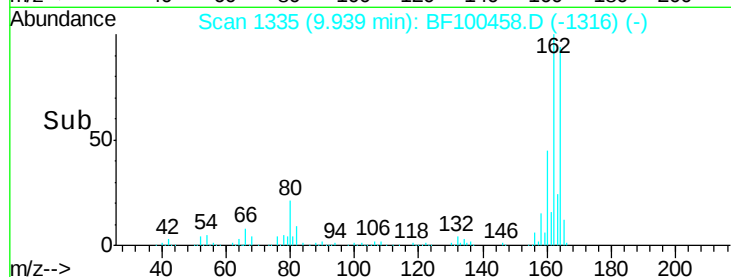
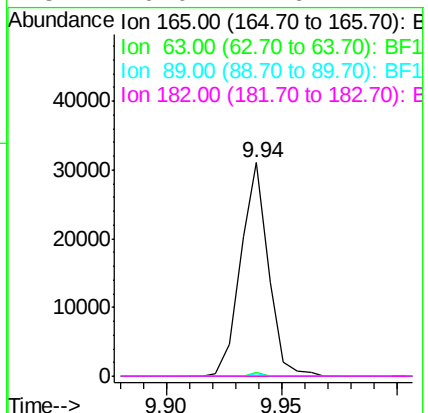
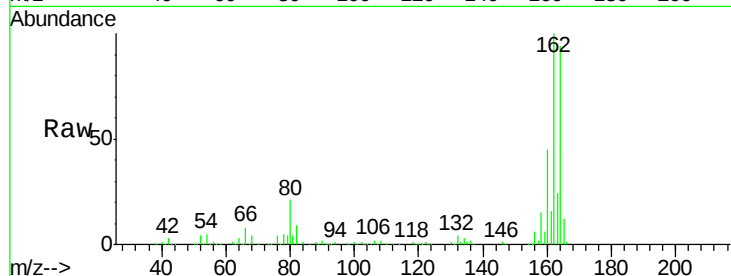




#56  
2,4-Dinitrotoluene  
Concen: 6.59 ng  
RT: 9.94 min Scan# 1335  
Delta R.T. -0.19 min  
Lab File: BF100458.D  
Acq: 12 Nov 2017 00:24

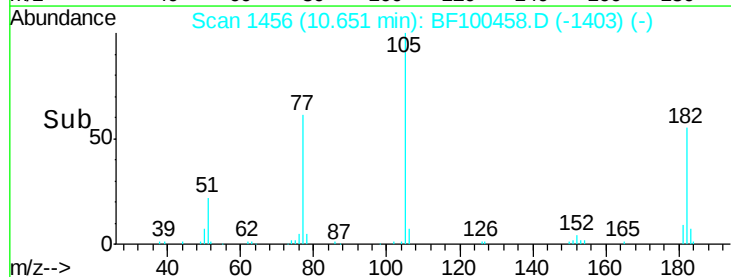
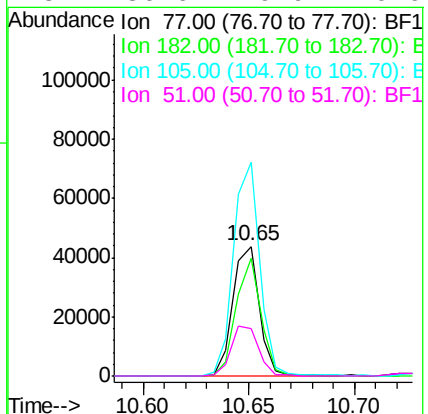
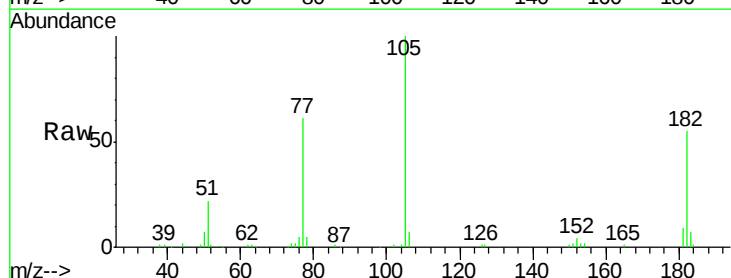
Instrument :  
BNA\_F  
ClientSampleId :  
110617-TIDO-F-U-B

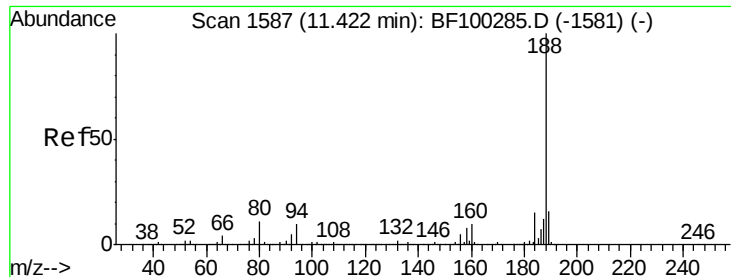
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 165   | Resp: | 25869 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 1.8   | 36.4  | 54.6# |
| 89       | 1.4   | 57.8  | 86.6# |
| 182      | 0.0   | 1.6   | 2.4#  |



#62  
Azobenzene  
Concen: 2.54 ng  
RT: 10.65 min Scan# 1456  
Delta R.T. 0.01 min  
Lab File: BF100458.D  
Acq: 12 Nov 2017 00:24

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 77    | Resp: | 37652 |
| Ion      | Ratio | Lower | Upper |
| 77       | 100   |       |       |
| 182      | 91.2  | 1.7   | 41.7# |
| 105      | 165.0 | 3.0   | 43.0# |
| 51       | 36.6  | 9.9   | 49.9  |

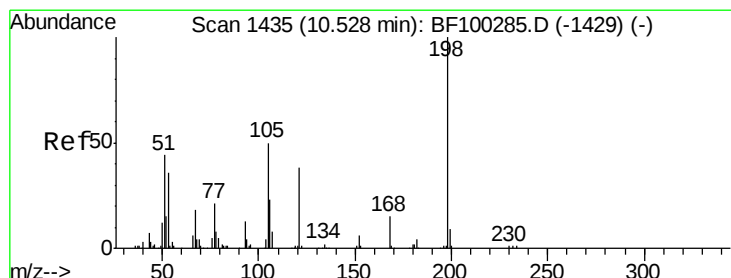
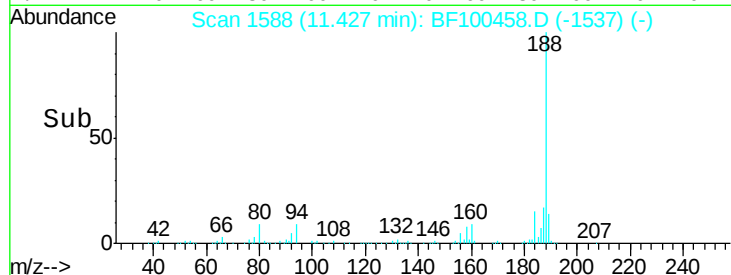
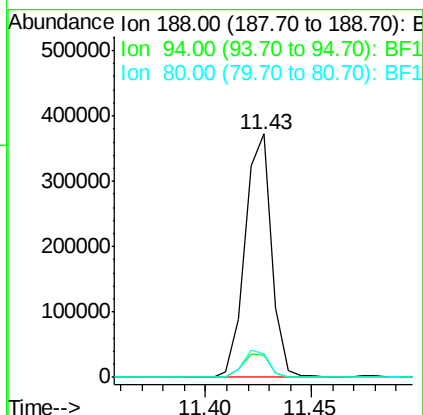
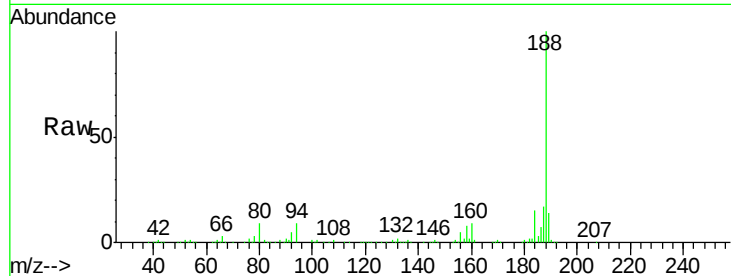




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.43 min Scan# 1588  
Delta R.T. -0.00 min  
Lab File: BF100458.D  
Acq: 12 Nov 2017 00:24

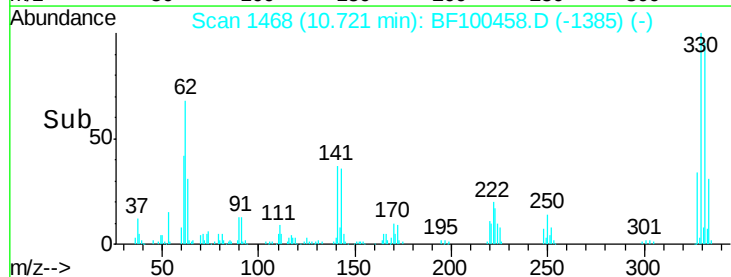
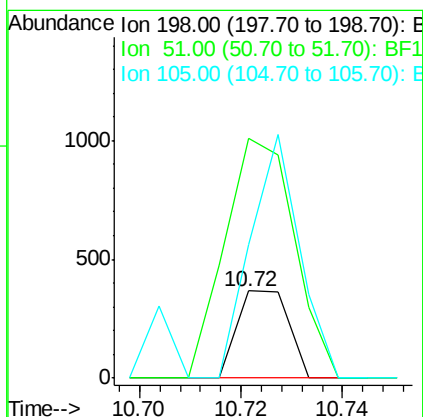
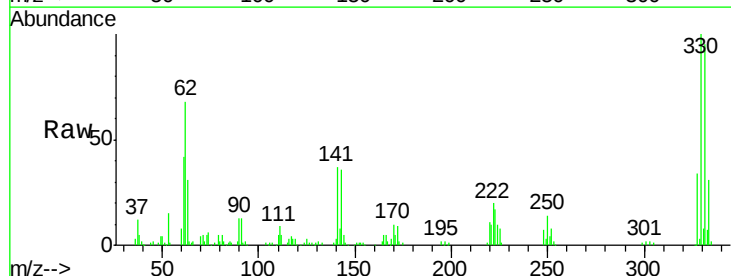
Instrument :  
BNA\_F  
ClientSampleId :  
110617-TIDO-F-U-B

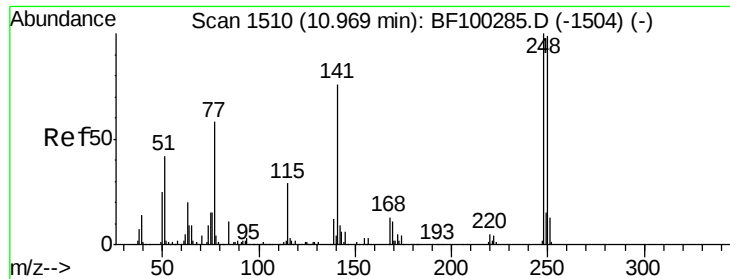
Tgt Ion:188 Resp: 323907  
Ion Ratio Lower Upper  
188 100  
94 9.1 8.5 12.7  
80 9.4 9.2 13.8



#64  
4,6-Dinitro-2-methylphenol  
Concen: 8.70 ng  
RT: 10.72 min Scan# 1468  
Delta R.T. 0.19 min  
Lab File: BF100458.D  
Acq: 12 Nov 2017 00:24

Tgt Ion:198 Resp: 258  
Ion Ratio Lower Upper  
198 100  
51 274.7 37.7 77.7#  
105 152.6 36.3 76.3#

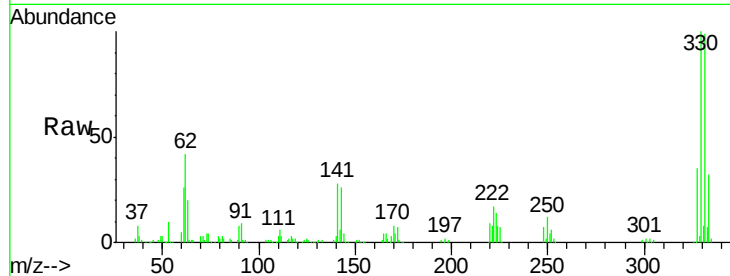




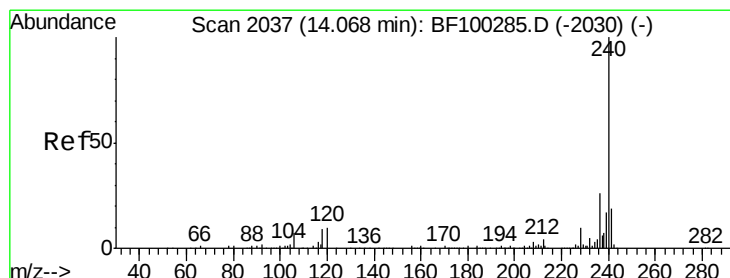
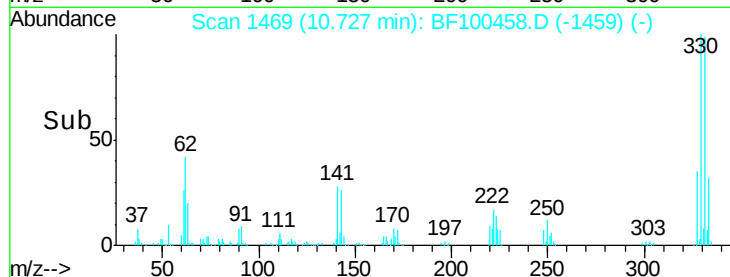
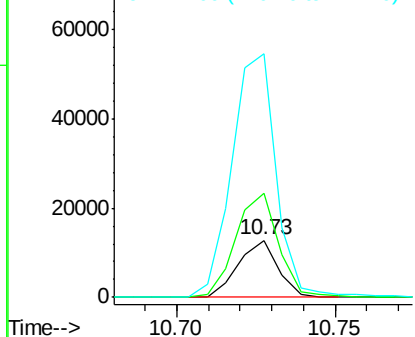
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.17 ng  
 RT: 10.73 min Scan# 1469  
 Delta R.T. -0.24 min  
 Lab File: BF100458.D  
 Acq: 12 Nov 2017 00:24

Instrument :  
 BNA\_F  
 ClientSampleId :  
 110617-TIDO-F-U-B

Tgt Ion:248 Resp: 11004  
 Ion Ratio Lower Upper  
 248 100  
 250 180.7 76.9 115.3#  
 141 424.4 74.4 111.6#

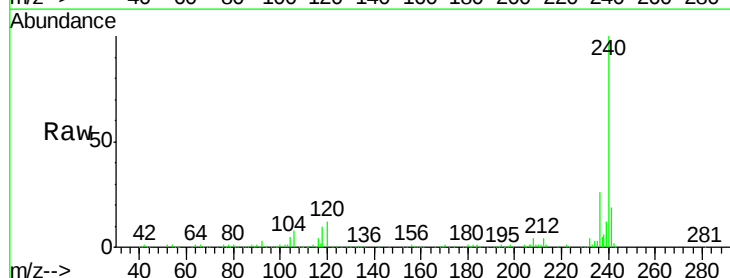


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

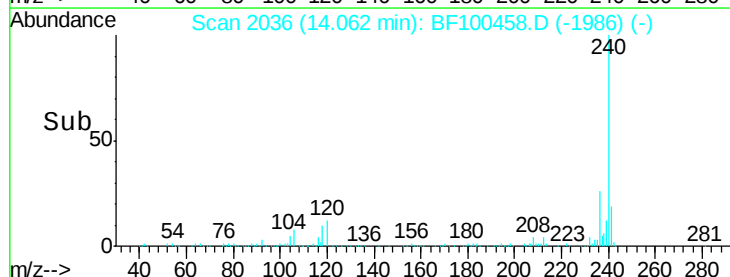
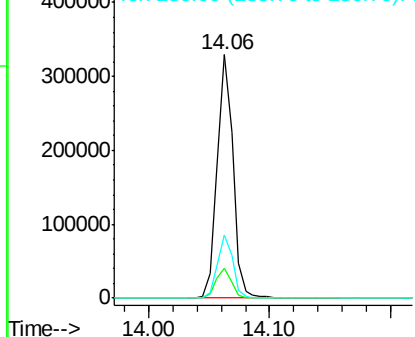


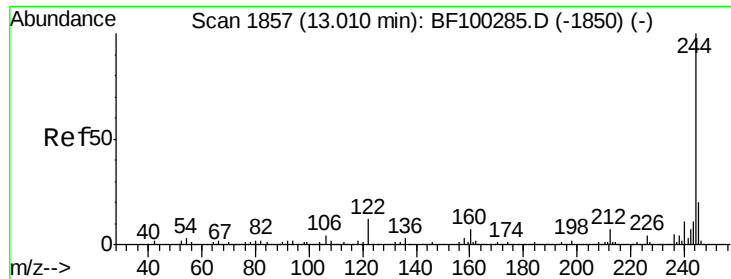
#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 14.06 min Scan# 2036  
 Delta R.T. -0.01 min  
 Lab File: BF100458.D  
 Acq: 12 Nov 2017 00:24

Tgt Ion:240 Resp: 292553  
 Ion Ratio Lower Upper  
 240 100  
 120 12.4 9.5 14.3  
 236 26.2 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: 78.30 ng

RT: 13.01 min Scan# 1857

Delta R.T. -0.00 min

Lab File: BF100458.D

Acq: 12 Nov 2017 00:24

Instrument :

BNA\_F

ClientSampleId :

110617-TIDO-F-U-B

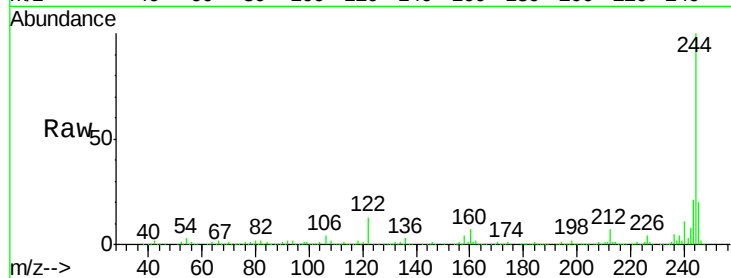
Tgt Ion:244 Resp: 996961

Ion Ratio Lower Upper

244 100

212 7.1 5.4 8.0

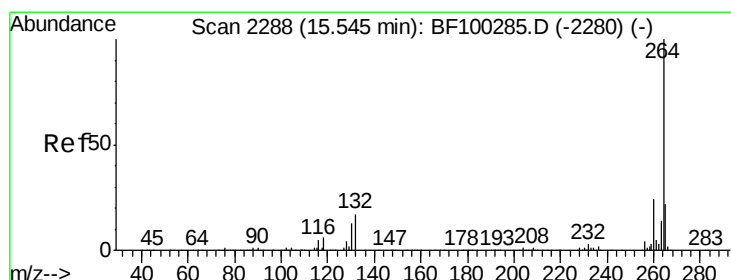
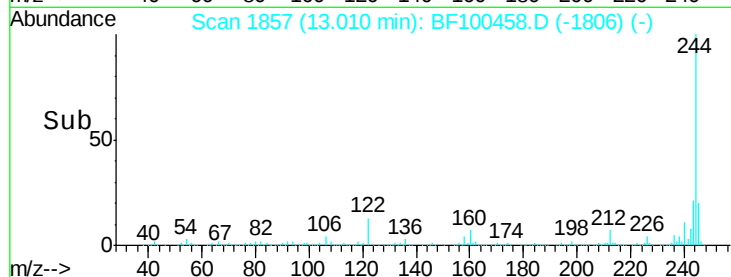
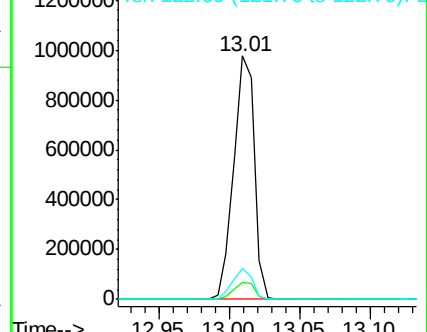
122 12.7 11.0 16.4



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: 20.00 ng

RT: 15.55 min Scan# 2289

Delta R.T. 0.01 min

Lab File: BF100458.D

Acq: 12 Nov 2017 00:24

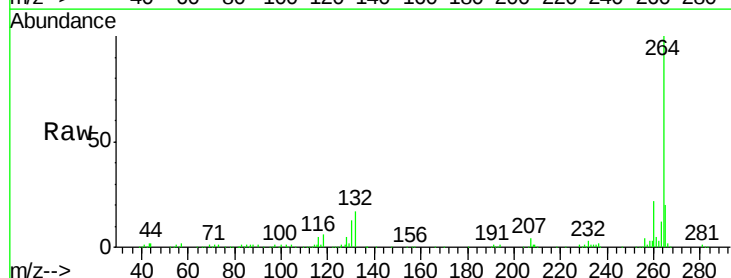
Tgt Ion:264 Resp: 208887

Ion Ratio Lower Upper

264 100

260 22.5 19.2 28.8

265 20.3 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

