

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF072518\  
 Data File : BF107655.D  
 Acq On : 25 Jul 2018 14:26  
 Operator : JU/SJ  
 Sample : J4124-03  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-11-S

Quant Time: Jul 25 15:07:05 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF072018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 20 16:29:27 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.97  | 152  | 255826   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 8.25  | 136  | 984294   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 10.01 | 164  | 417592   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 11.50 | 188  | 792854   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 14.15 | 240  | 536656   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.68 | 264  | 515509   | 20.00 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.60  | 112  | 1432397  | 90.02  | ng    | 0.00     |
| 7) Phenol-d6                | 6.60  | 99   | 1869591  | 97.86  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.53  | 82   | 1185564  | 81.29  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.80 | 330  | 507155   | 106.80 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl        | 9.32  | 172  | 1912001  | 76.20  | ng    | -0.01    |
| 78) Terphenyl-d14           | 13.09 | 244  | 1621684  | 77.36  | ng    | -0.01    |

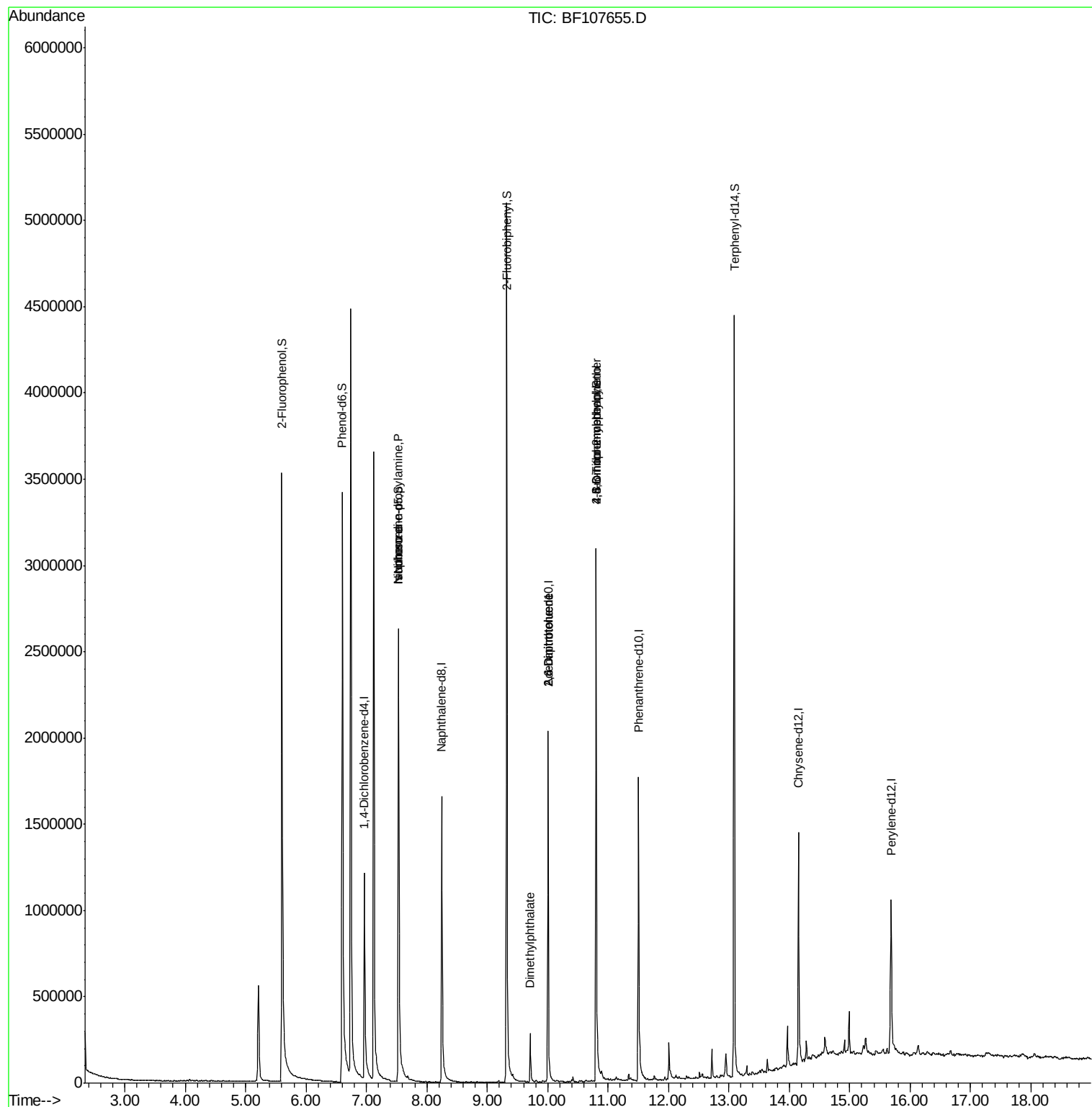
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.53  | 70   | 156141   | 12.651    | ng    | # 79   |
| 25) Isophorone                 | 7.53  | 82   | 1185558  | 38.071    | ng    | # 64   |
| 49) Dimethylphthalate          | 9.71  | 163  | 126467   | 4.018     | ng    | # 97   |
| 50) 2,6-Dinitrotoluene         | 10.01 | 165  | 52888    | 8.464     | ng    | # 25   |
| 56) 2,4-Dinitrotoluene         | 10.01 | 165  | 53613    | 7.108     | ng    | # 23   |
| 64) 4,6-Dinitro-2-methylphenol | 10.80 | 198  | 781      | 8.848     | ng    | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.80 | 248  | 29766    | 3.189     | ng    | # 1    |
| 73) Di-n-butylphthalate        | 12.05 | 149  | 5322     | Below Cal |       | # 92   |
| 81) 3,3'-Dichlorobenzidine     | 14.09 | 252  | 301      | Below Cal |       | # 27   |

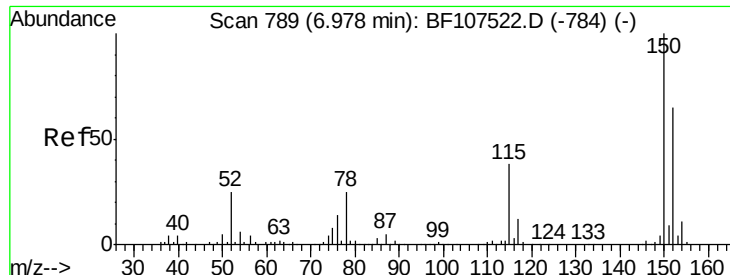
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF072518\  
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Sample : J4124-03  
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ALS Vial : 8 Sample Multiplier: 1

Instrument :  
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TP-11-S

Quant Time: Jul 25 15:07:05 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF072018.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jul 20 16:29:27 2018  
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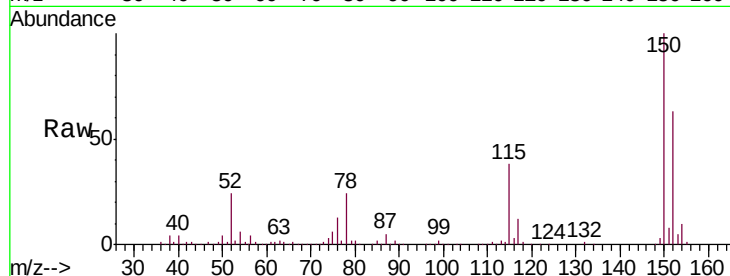


#1

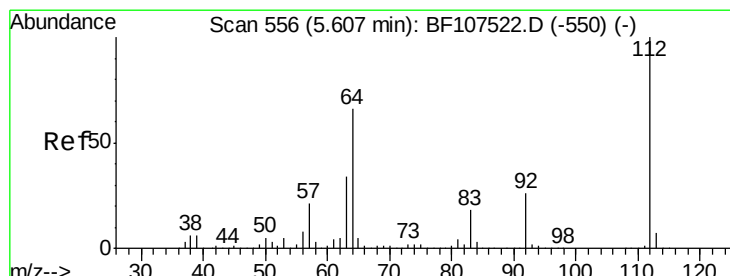
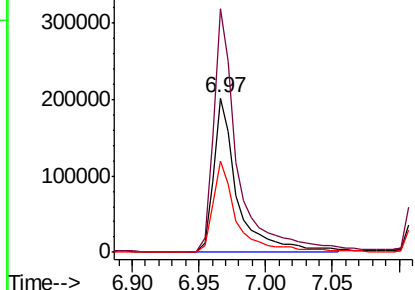
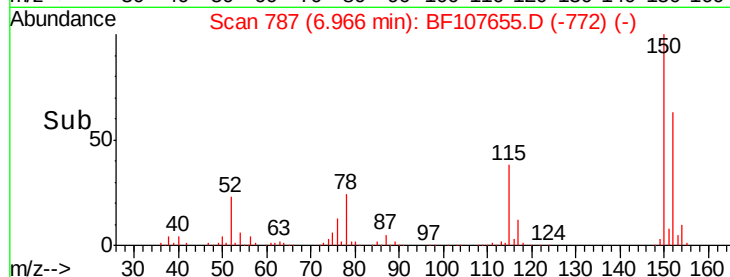
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.97 min Scan# 787  
Delta R.T. -0.01 min  
Lab File: BF107655.D  
Acq: 25 Jul 2018 14:26

Instrument :  
BNA\_F  
ClientSampleId :  
TP-11-S

Tgt Ion:152 Resp: 255826  
Ion Ratio Lower Upper  
152 100  
150 158.0 124.6 186.8  
115 59.6 50.1 75.1



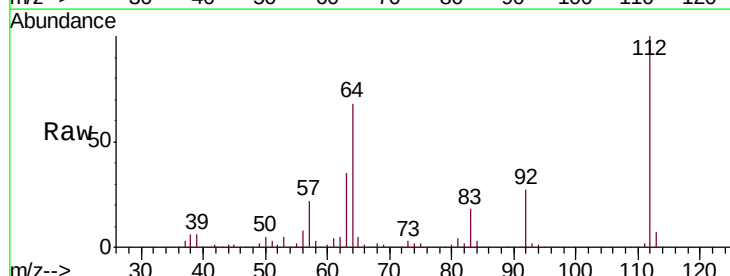
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



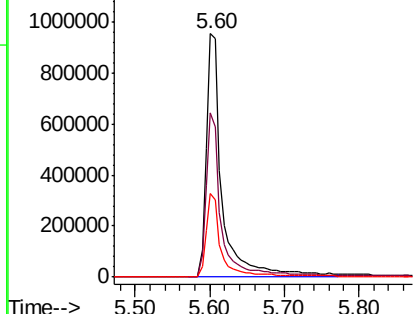
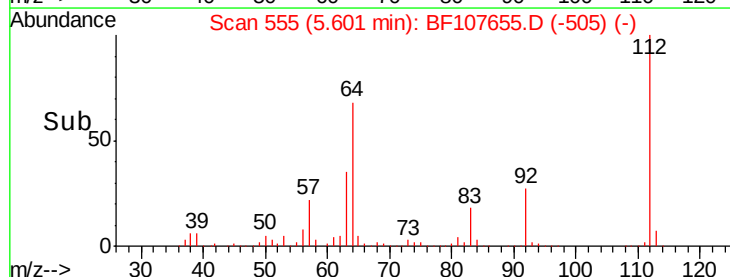
#5

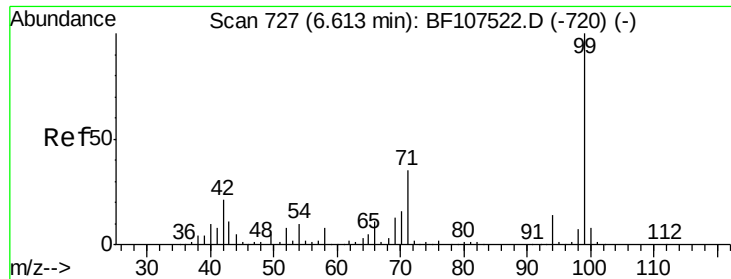
2-Fluorophenol  
Concen: 90.023 ng  
RT: 5.60 min Scan# 555  
Delta R.T. -0.01 min  
Lab File: BF107655.D  
Acq: 25 Jul 2018 14:26

Tgt Ion:112 Resp: 1432397  
Ion Ratio Lower Upper  
112 100  
64 67.5 47.9 71.9  
63 34.6 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: 97.856 ng

RT: 6.60 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF107655.D

Acq: 25 Jul 2018 14:26

Instrument :

BNA\_F

ClientSampleId :

TP-11-S

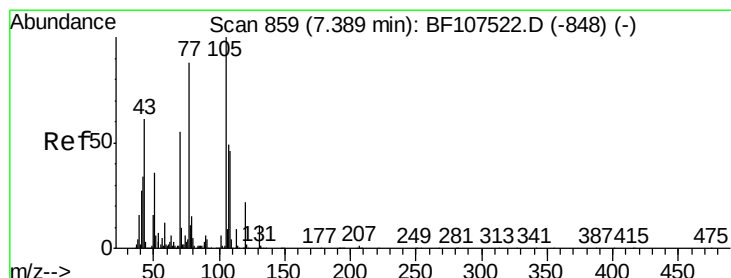
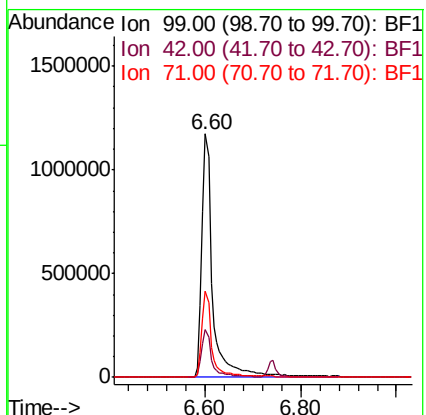
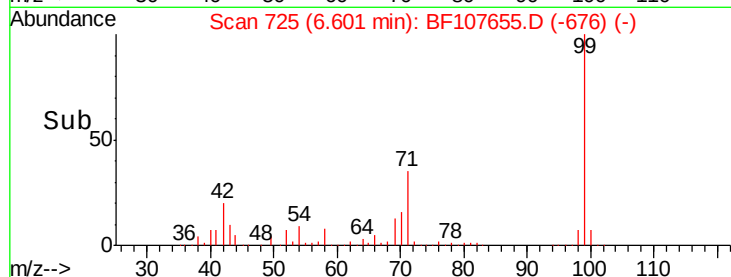
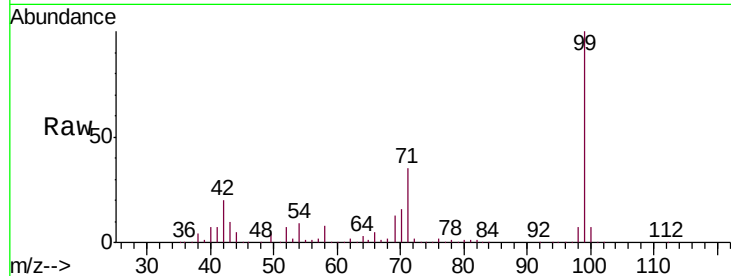
Tgt Ion: 99 Resp: 1869591

Ion Ratio Lower Upper

99 100

42 19.7 14.5 21.7

71 35.5 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 12.651 ng

RT: 7.53 min Scan# 883

Delta R.T. 0.14 min

Lab File: BF107655.D

Acq: 25 Jul 2018 14:26

Tgt Ion: 70 Resp: 156141

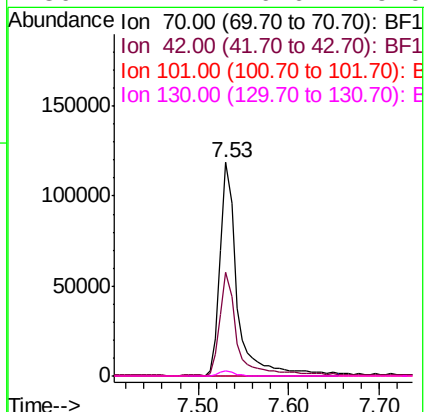
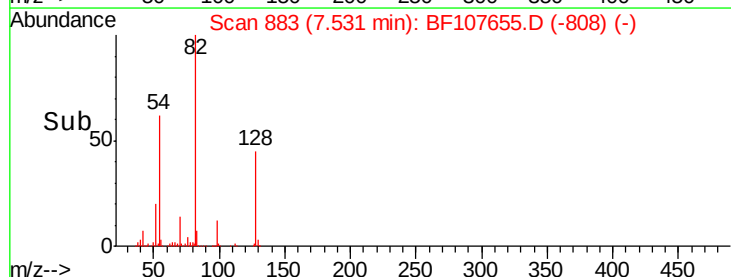
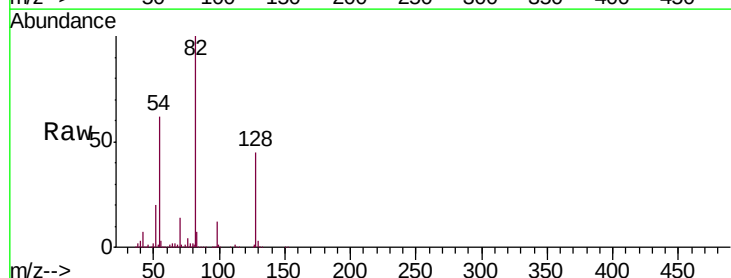
Ion Ratio Lower Upper

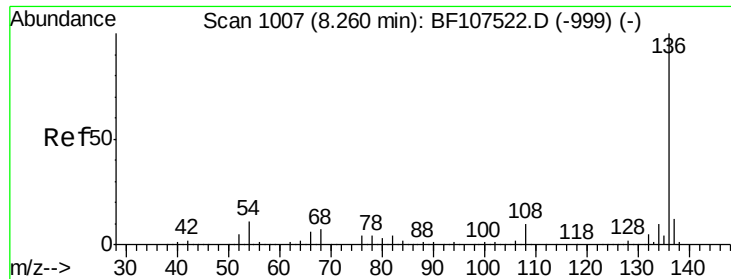
70 100

42 48.7 47.5 71.3

101 0.0 7.4 11.2#

130 2.2 16.6 25.0#

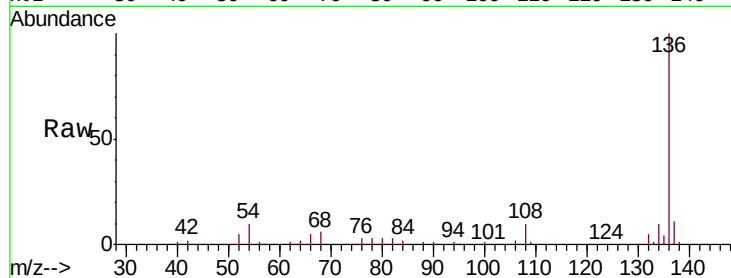




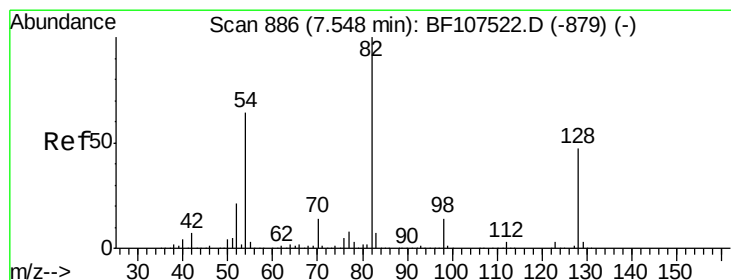
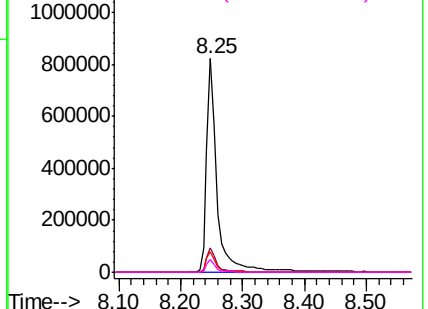
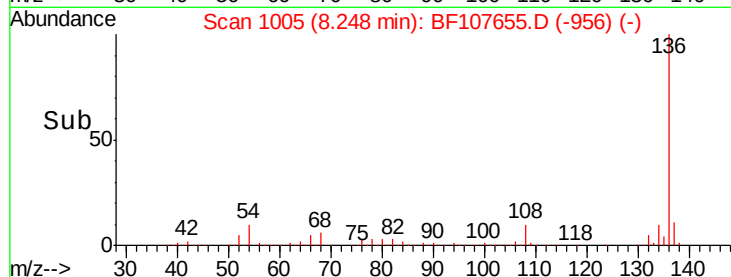
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.25 min Scan# 1005  
Delta R.T. -0.01 min  
Lab File: BF107655.D  
Acq: 25 Jul 2018 14:26

Instrument :  
BNA\_F  
ClientSampleId :  
TP-11-S

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 984294 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.4  | 8.9   | 13.3   |
| 54       | 9.6   | 6.6   | 9.8    |
| 68       | 6.0   | 5.0   | 7.4    |

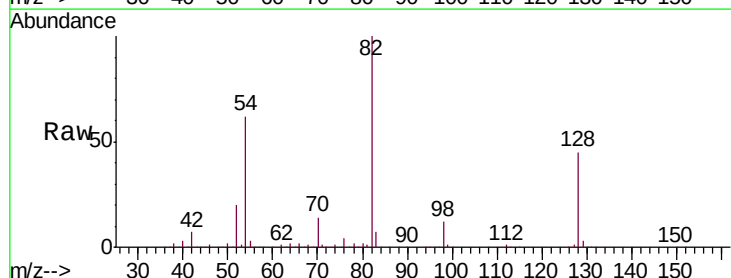


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

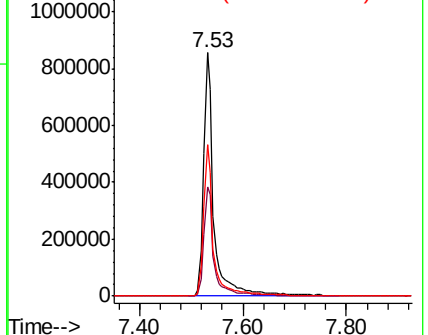
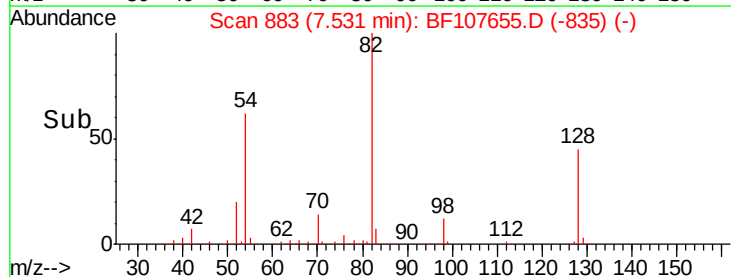


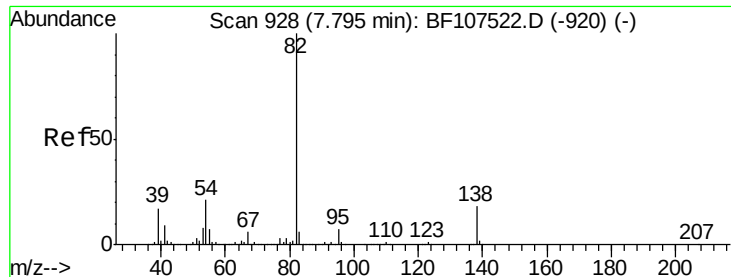
#23  
Nitrobenzene-d5  
Concen: 81.288 ng  
RT: 7.53 min Scan# 883  
Delta R.T. -0.02 min  
Lab File: BF107655.D  
Acq: 25 Jul 2018 14:26

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 82    | Resp: | 1185564 |
| Ion      | Ratio | Lower | Upper   |
| 82       | 100   |       |         |
| 128      | 44.7  | 36.1  | 54.1    |
| 54       | 62.4  | 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: 38.071 ng

RT: 7.53 min Scan# 883

Delta R.T. -0.26 min

Lab File: BF107655.D

Acq: 25 Jul 2018 14:26

Instrument :

BNA\_F

ClientSampleId :

TP-11-S

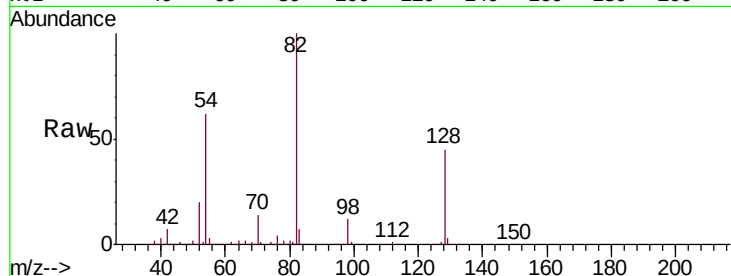
Tgt Ion: 82 Resp: 1185558

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

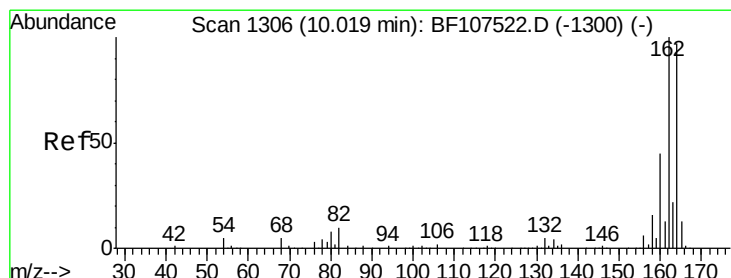
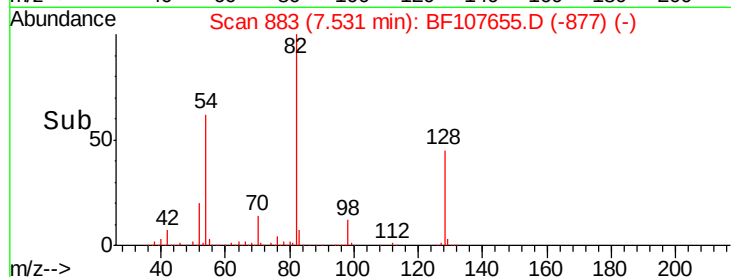
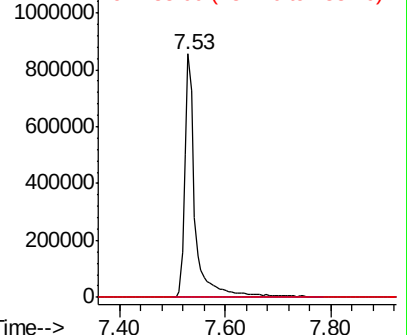
138 0.0 14.9 22.3#



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: 20.000 ng

RT: 10.01 min Scan# 1304

Delta R.T. -0.01 min

Lab File: BF107655.D

Acq: 25 Jul 2018 14:26

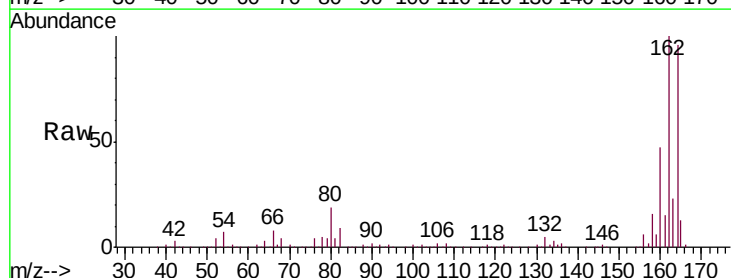
Tgt Ion: 164 Resp: 417592

Ion Ratio Lower Upper

164 100

162 104.1 86.1 129.1

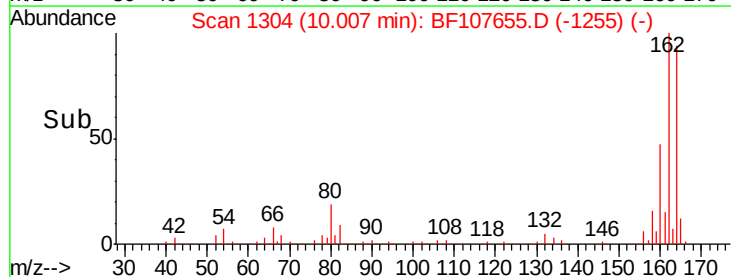
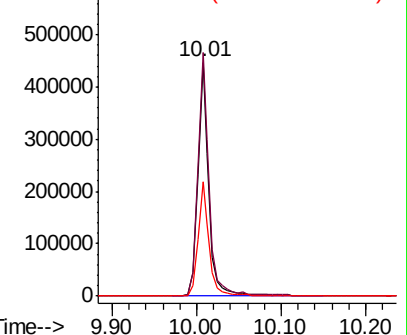
160 48.6 38.3 57.5

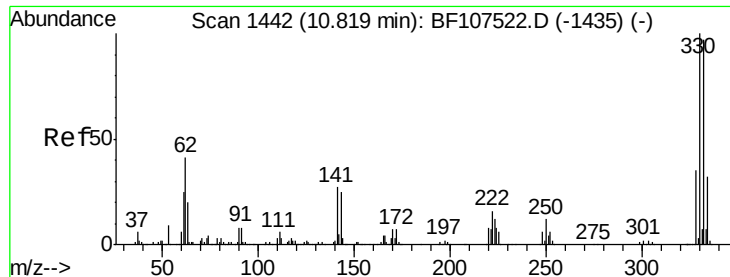


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

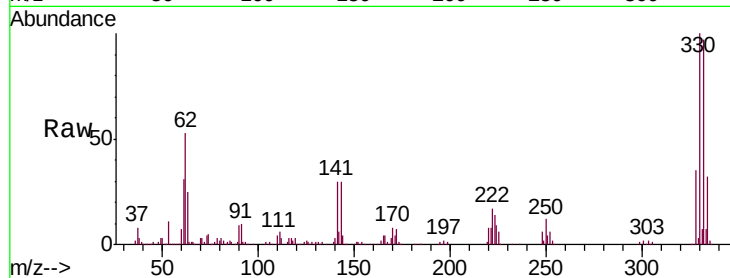




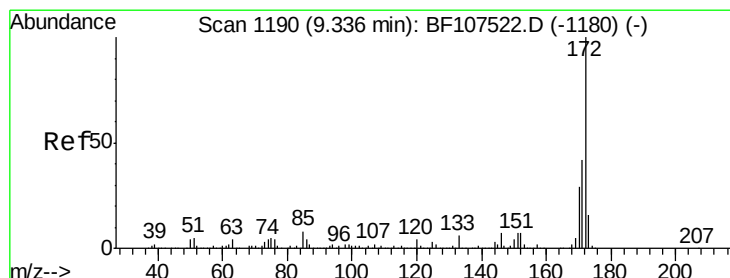
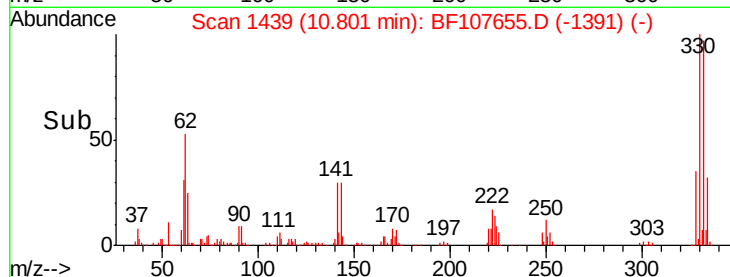
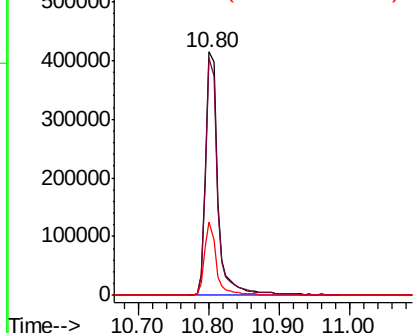
#41  
 2,4,6-Tribromophenol  
 Concen: 106.799 ng  
 RT: 10.80 min Scan# 1439  
 Delta R.T. -0.02 min  
 Lab File: BF107655.D  
 Acq: 25 Jul 2018 14:26

Instrument :  
 BNA\_F  
 ClientSampled :  
 TP-11-S

Tgt Ion:330 Resp: 507155  
 Ion Ratio Lower Upper  
 330 100  
 332 95.8 77.0 115.6  
 141 29.0 29.9 44.9#

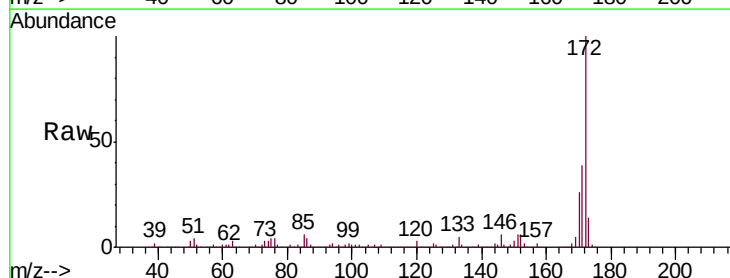


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

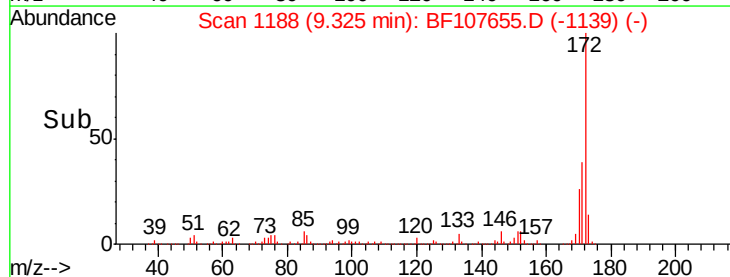
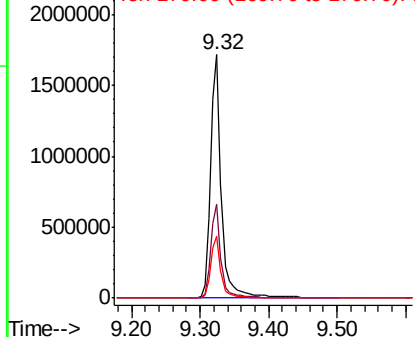


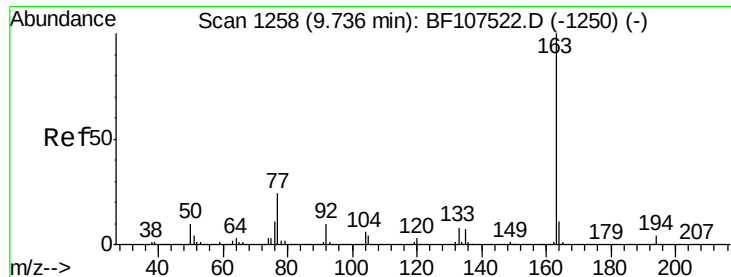
#44  
 2-Fluorobiphenyl  
 Concen: 76.202 ng  
 RT: 9.32 min Scan# 1188  
 Delta R.T. -0.01 min  
 Lab File: BF107655.D  
 Acq: 25 Jul 2018 14:26

Tgt Ion:172 Resp: 1912001  
 Ion Ratio Lower Upper  
 172 100  
 171 38.7 29.7 44.5  
 170 25.7 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





#49

Dimethylphthalate

Concen: 4.018 ng

RT: 9.71 min Scan# 1254

Delta R.T. -0.02 min

Lab File: BF107655.D

Acq: 25 Jul 2018 14:26

Instrument :

BNA\_F

ClientSampleId :

TP-11-S

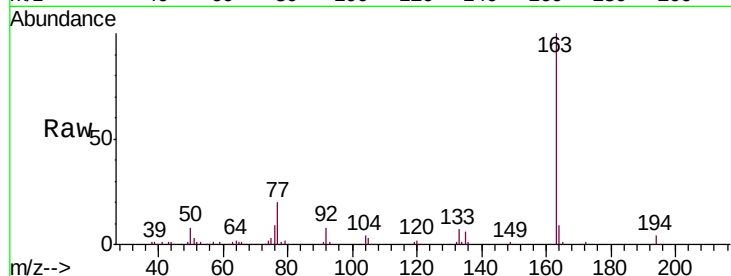
Tgt Ion:163 Resp: 126467

Ion Ratio Lower Upper

163 100

194 4.4 2.7 4.1#

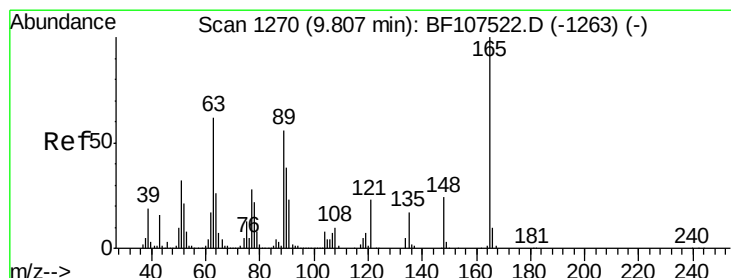
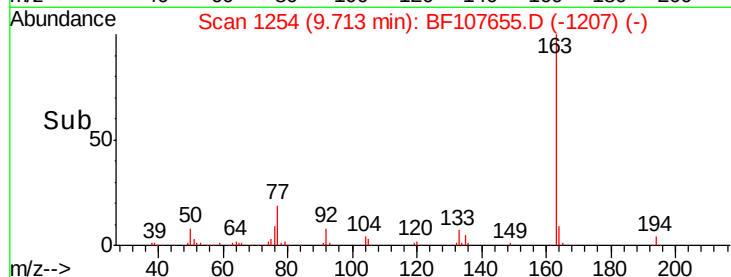
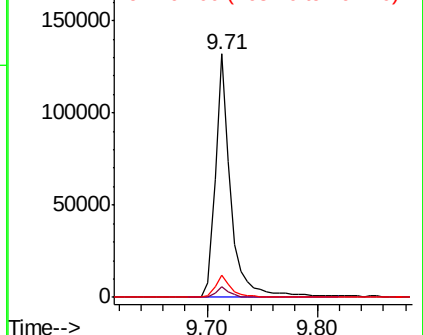
164 9.3 8.2 12.2



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: 8.464 ng

RT: 10.01 min Scan# 1304

Delta R.T. 0.20 min

Lab File: BF107655.D

Acq: 25 Jul 2018 14:26

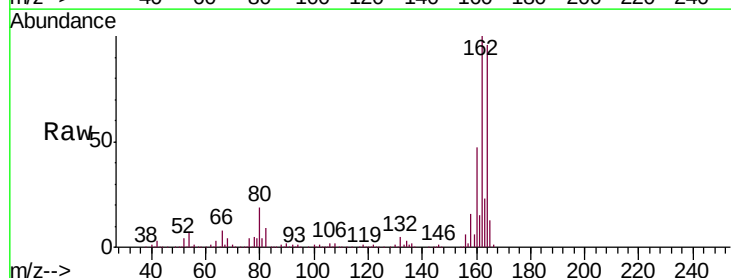
Tgt Ion:165 Resp: 52888

Ion Ratio Lower Upper

165 100

63 1.5 44.7 67.1#

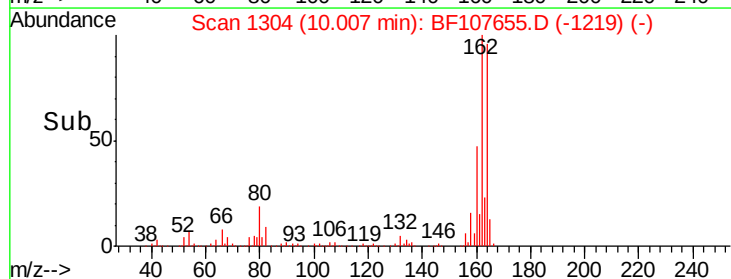
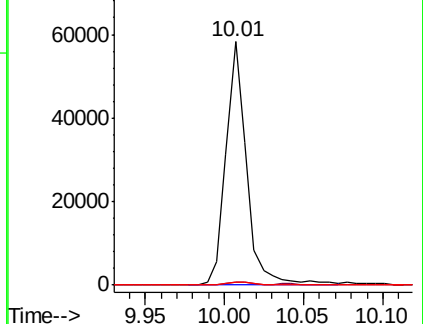
89 1.0 44.0 66.0#



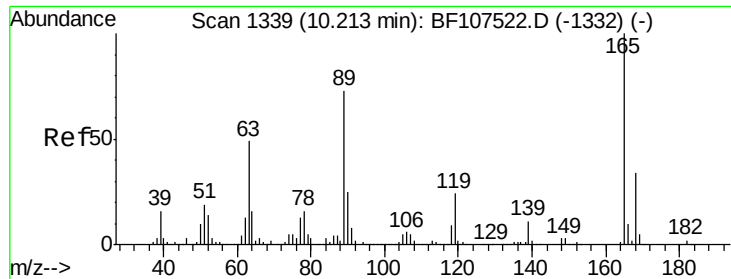
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1



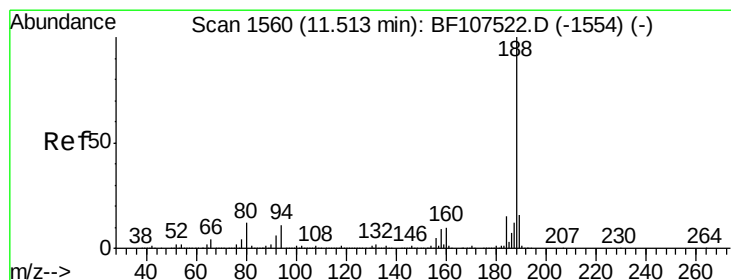
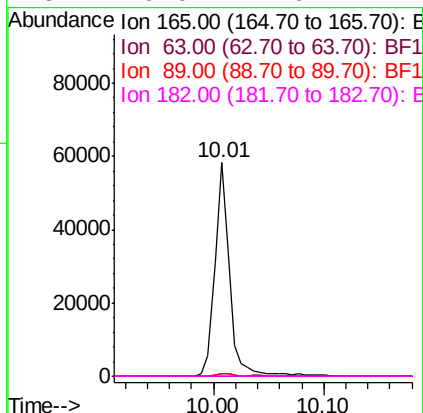
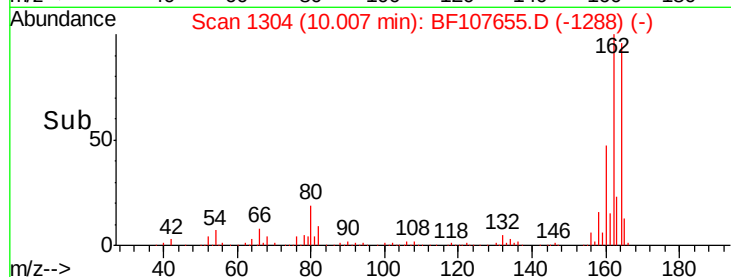
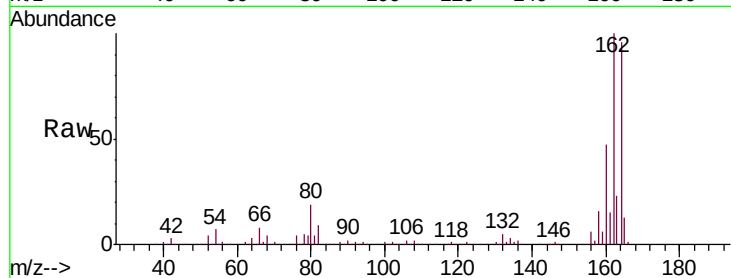




#56  
2,4-Dinitrotoluene  
Concen: 7.108 ng  
RT: 10.01 min Scan# 1304  
Delta R.T. -0.21 min  
Lab File: BF107655.D  
Acq: 25 Jul 2018 14:26

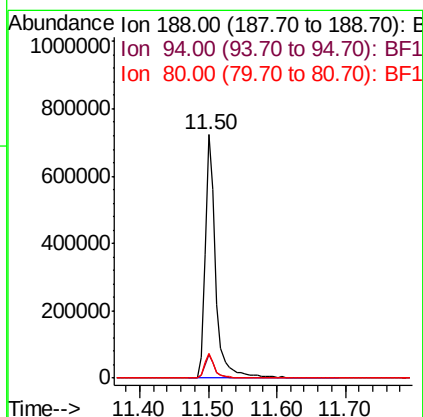
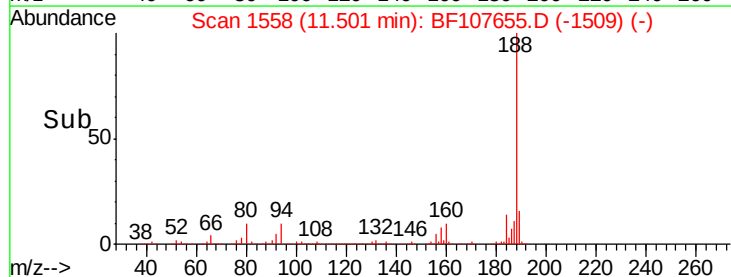
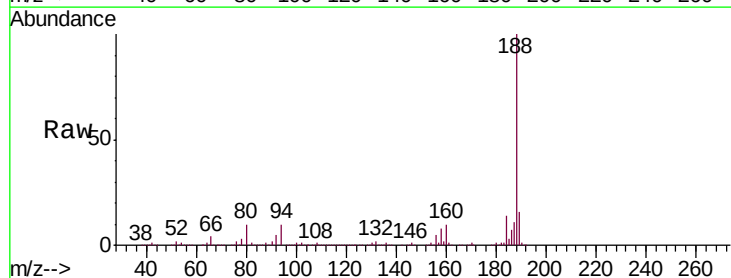
Instrument :  
BNA\_F  
ClientSampleId :  
TP-11-S

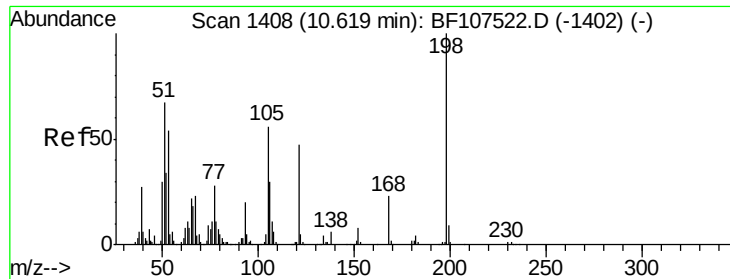
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.5   | 36.4  | 54.6# |
| 89      | 1.0   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |



#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.50 min Scan# 1558  
Delta R.T. -0.01 min  
Lab File: BF107655.D  
Acq: 25 Jul 2018 14:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.6   | 8.5   | 12.7  |
| 80      | 10.2  | 9.2   | 13.8  |

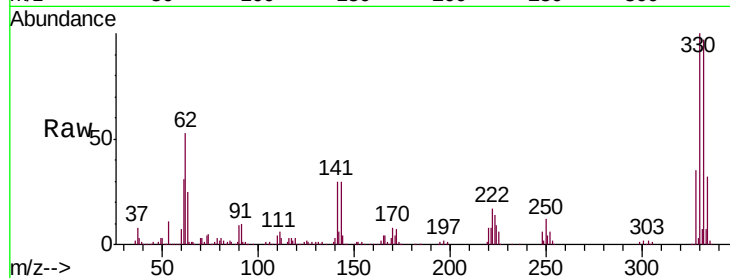




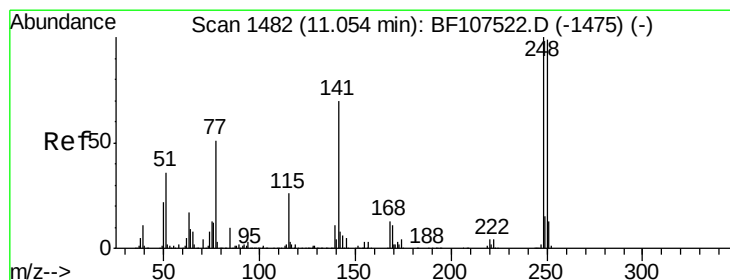
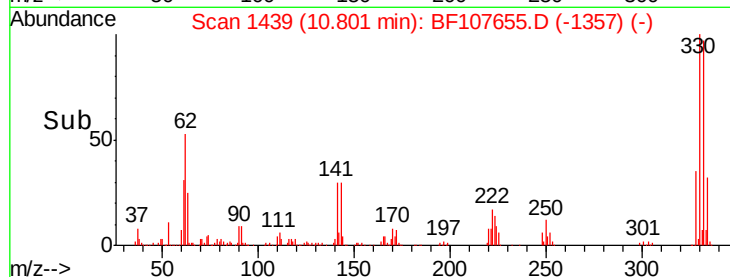
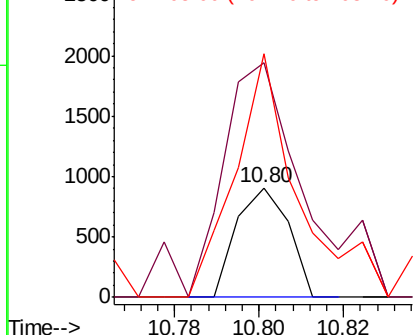
#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 8.848 ng  
 RT: 10.80 min Scan# 1439  
 Delta R.T. 0.18 min  
 Lab File: BF107655.D  
 Acq: 25 Jul 2018 14:26

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-11-S

Tgt Ion:198 Resp: 781  
 Ion Ratio Lower Upper  
 198 100  
 51 213.3 37.7 77.7#  
 105 221.8 36.3 76.3#

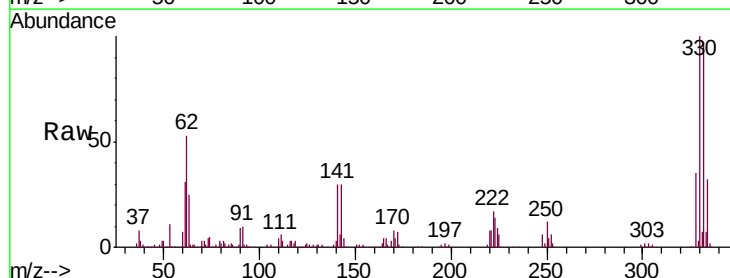


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF1  
 Ion 105.00 (104.70 to 105.70): E

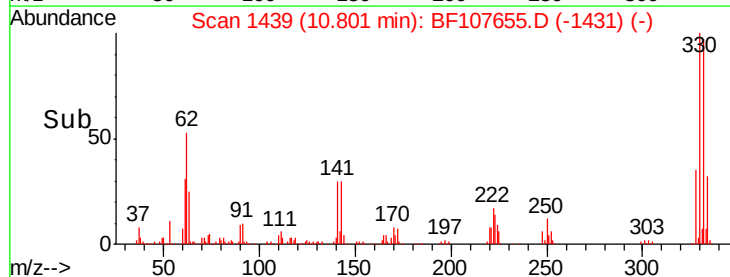
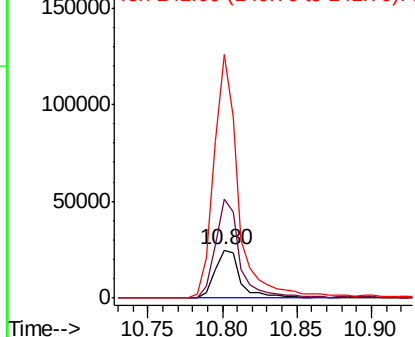


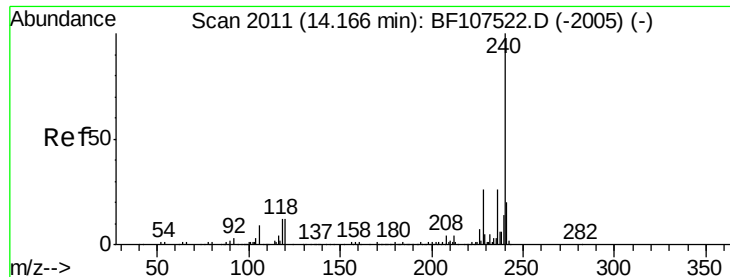
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.189 ng  
 RT: 10.80 min Scan# 1439  
 Delta R.T. -0.25 min  
 Lab File: BF107655.D  
 Acq: 25 Jul 2018 14:26

Tgt Ion:248 Resp: 29766  
 Ion Ratio Lower Upper  
 248 100  
 250 204.6 76.9 115.3#  
 141 504.6 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: 14.15 min Scan# 2009

Delta R.T. -0.01 min

Lab File: BF107655.D

Acq: 25 Jul 2018 14:26

Instrument :

BNA\_F

ClientSampleId :

TP-11-S

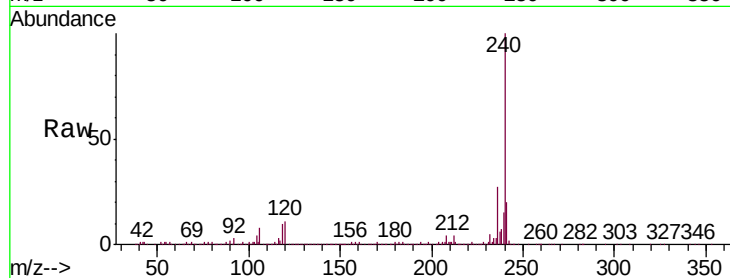
Tgt Ion:240 Resp: 536656

Ion Ratio Lower Upper

240 100

120 11.2 9.5 14.3

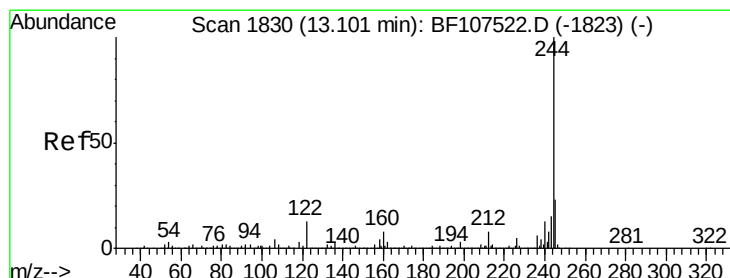
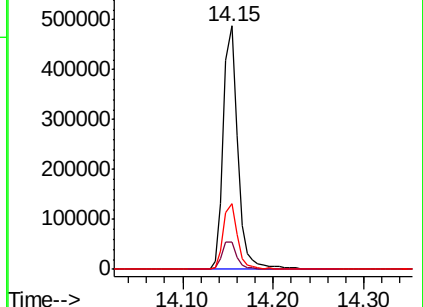
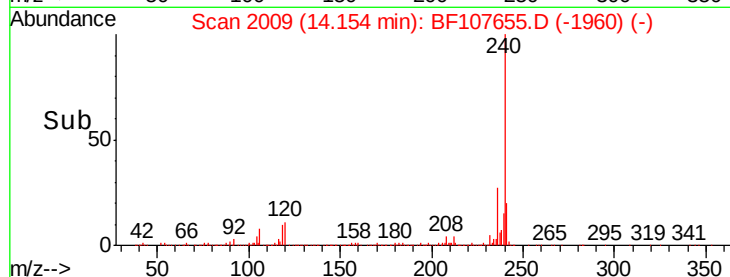
236 26.7 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78

Terphenyl-d14

Concen: 77.362 ng

RT: 13.09 min Scan# 1828

Delta R.T. -0.01 min

Lab File: BF107655.D

Acq: 25 Jul 2018 14:26

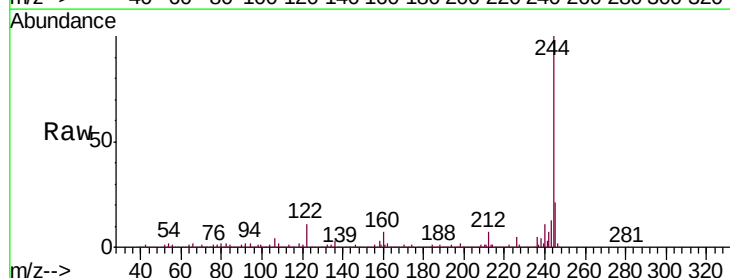
Tgt Ion:244 Resp: 1621684

Ion Ratio Lower Upper

244 100

212 6.8 5.4 8.0

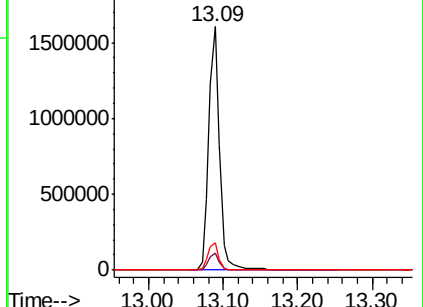
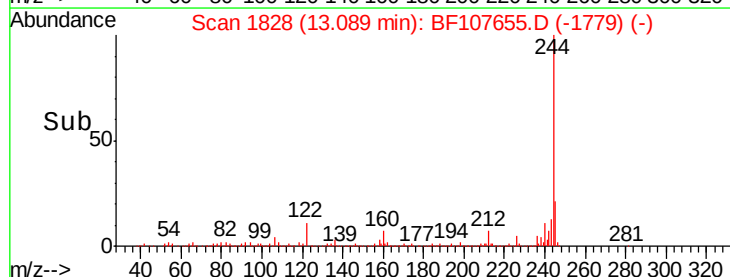
122 11.3 11.0 16.4

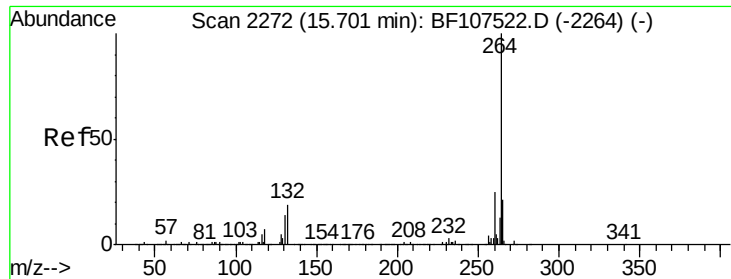


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.68 min Scan# 2269  
Delta R.T. -0.02 min  
Lab File: BF107655.D  
Acq: 25 Jul 2018 14:26

Instrument :  
BNA\_F  
ClientSampleId :  
TP-11-S

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.1  | 19.2  | 28.8  |
| 265     | 21.9  | 17.5  | 26.3  |

