

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\  
 Data File : BF107487.D  
 Acq On : 18 Jul 2018 19:33  
 Operator : JU/SJ  
 Sample : J4035-01  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 19 00:55:46 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 18 11:55:34 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.98  | 152  | 145295   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.27  | 136  | 539603   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.03 | 164  | 272694   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.52 | 188  | 465846   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.17 | 240  | 358211   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.71 | 264  | 278799   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.62  | 112  | 831475   | 86.91 | ng    | 0.00     |
| 7) Phenol-d6                | 6.61  | 99   | 1082413  | 87.51 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.55  | 82   | 800410   | 79.10 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.82 | 330  | 197925   | 82.61 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.34  | 172  | 1287327  | 77.79 | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.11 | 244  | 1012382  | 70.22 | ng    | 0.00     |

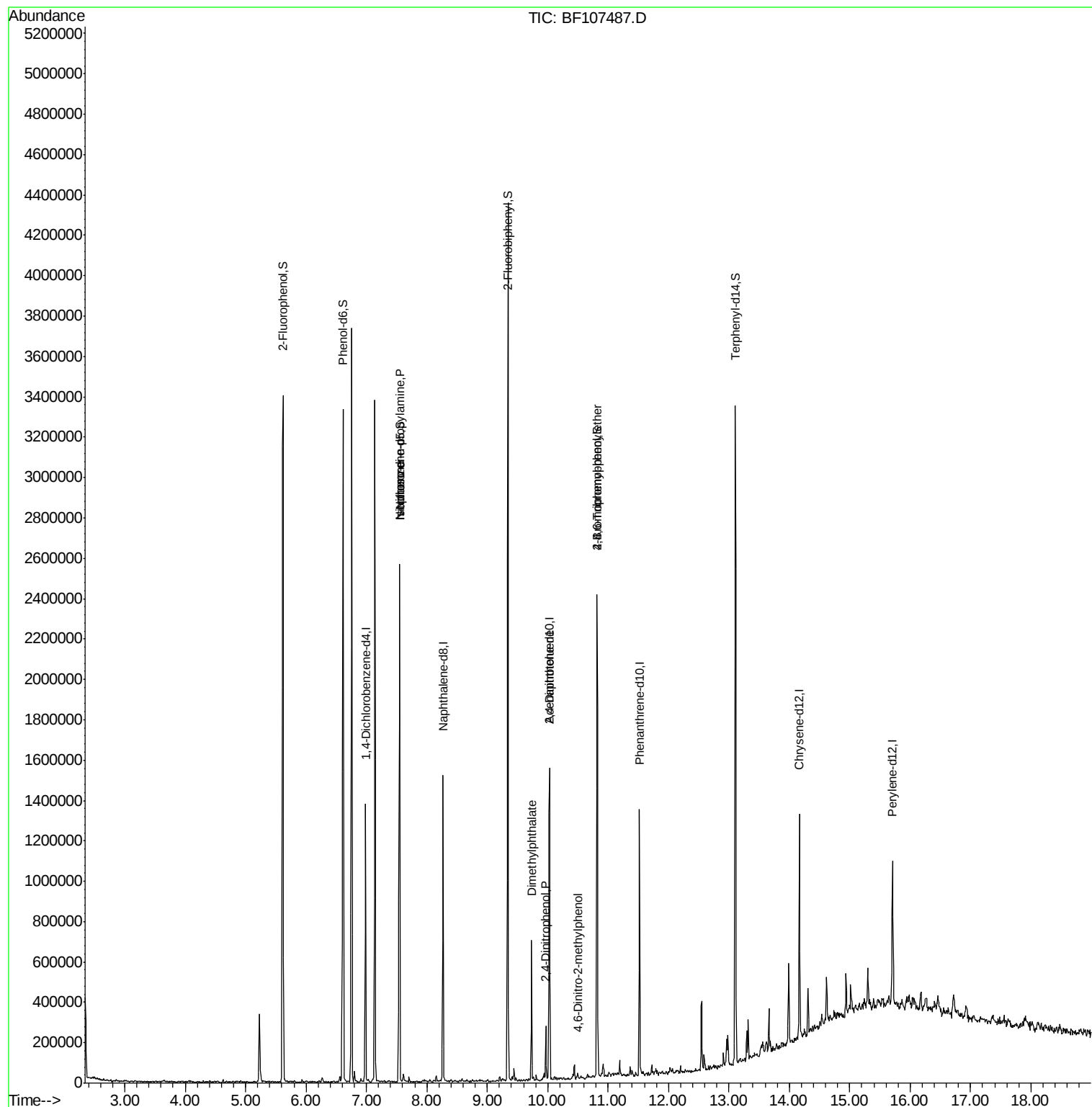
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.55  | 70   | 136236   | 15.383 | ng    | # 78   |
| 25) Isophorone                 | 7.55  | 82   | 800187   | 39.894 | ng    | # 64   |
| 49) Dimethylphthalate          | 9.73  | 163  | 214360   | 9.894  | ng    | # 98   |
| 53) 2,4-Dinitrophenol          | 9.96  | 184  | 412      | 2.664  | ng    | # 1    |
| 56) 2,4-Dinitrotoluene         | 10.02 | 165  | 35519    | 6.591  | ng    | # 27   |
| 64) 4,6-Dinitro-2-methylphenol | 10.51 | 198  | 193      | 7.554  | ng    | # 42   |
| 66) 4-Bromophenyl-phenylether  | 10.82 | 248  | 23281    | 4.368  | ng    | # 1    |

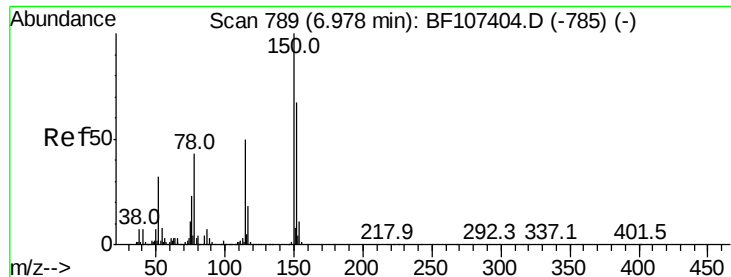
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_F  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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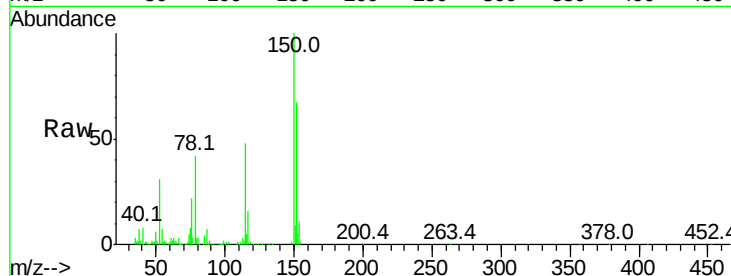


#1

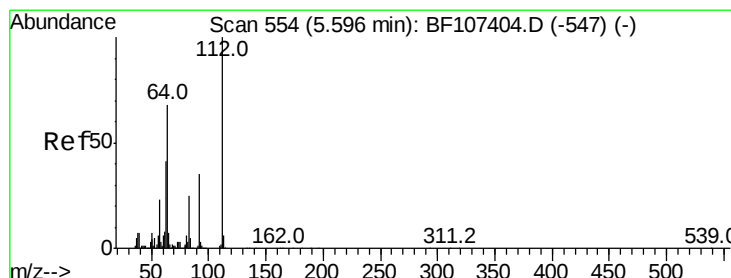
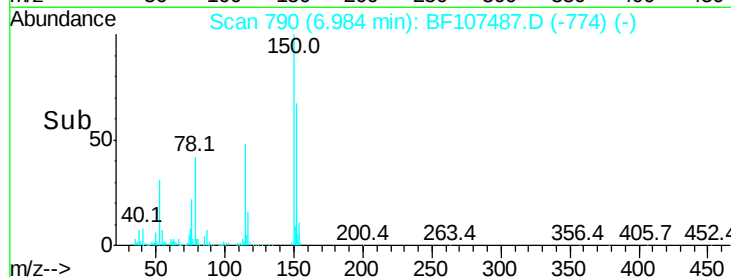
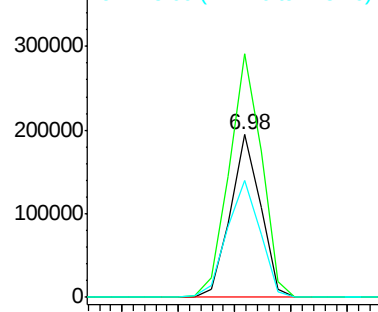
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.98 min Scan# 790  
Delta R.T. -0.01 min  
Lab File: BF107487.D  
Acq: 18 Jul 2018 19:33

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 149.6 | 124.6 | 186.8 |
| 115     | 71.6  | 50.1  | 75.1  |



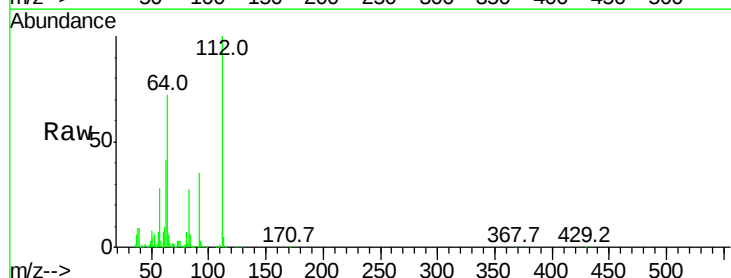
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



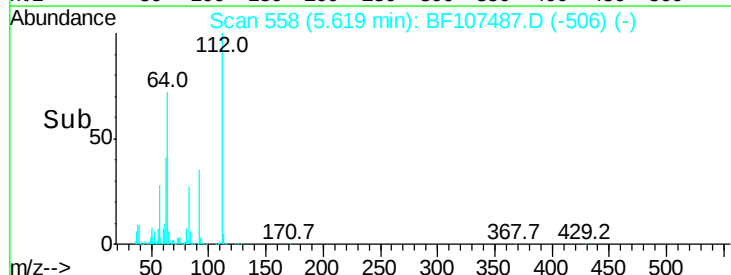
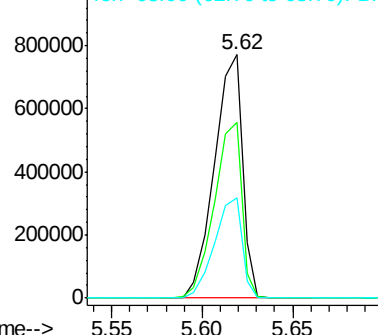
#5

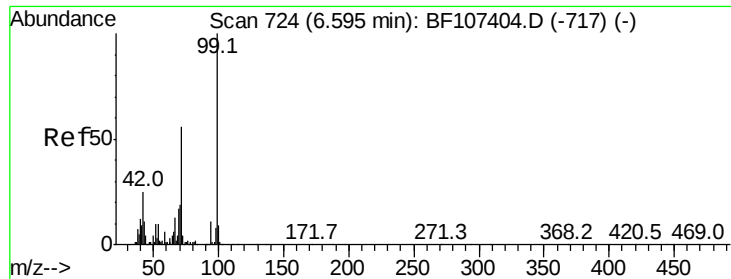
2-Fluorophenol  
Concen: 86.913 ng  
RT: 5.62 min Scan# 558  
Delta R.T. 0.01 min  
Lab File: BF107487.D  
Acq: 18 Jul 2018 19:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 72.0  | 47.9  | 71.9# |
| 63      | 41.3  | 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: 87.512 ng

RT: 6.61 min Scan# 727

Delta R.T. -0.00 min

Lab File: BF107487.D

Acq: 18 Jul 2018 19:33

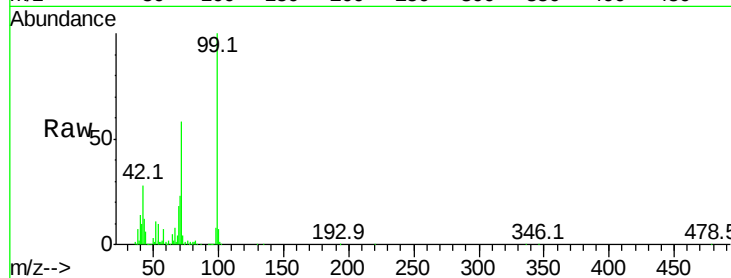
Instrument :

BNA\_F

ClientSampled :

Tot Ion: 99 Resp: 1082413

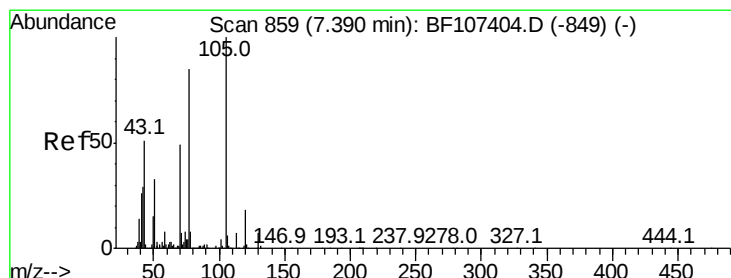
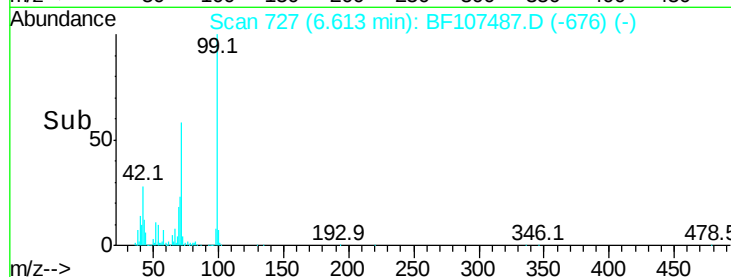
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 28.5  | 14.5  | 21.7# |
| 71  | 58.2  | 25.4  | 38.0# |



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 15.383 ng

RT: 7.55 min Scan# 886

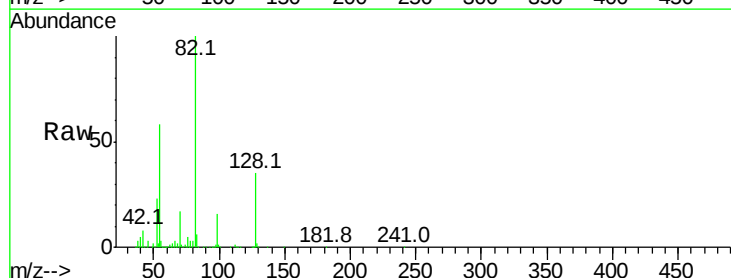
Delta R.T. 0.15 min

Lab File: BF107487.D

Acq: 18 Jul 2018 19:33

Tgt Ion: 70 Resp: 136236

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 48.2  | 47.5  | 71.3  |
| 101 | 0.0   | 7.4   | 11.2# |
| 130 | 2.0   | 16.6  | 25.0# |

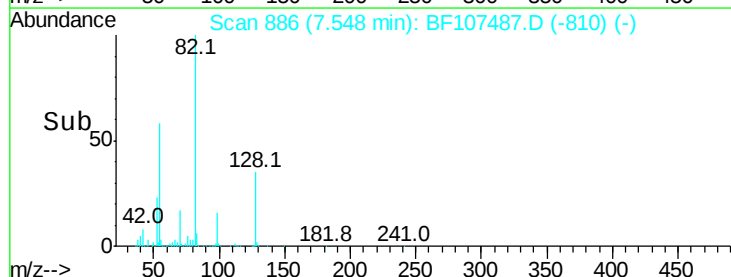


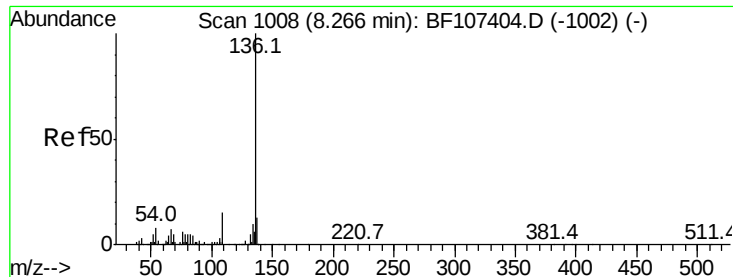
Abundance Ion 70.00 (69.70 to 70.70): BF1

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: 20.000 ng

RT: 8.27 min Scan# 1008

Delta R.T. -0.01 min

Lab File: BF107487.D

Acq: 18 Jul 2018 19:33

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 539603

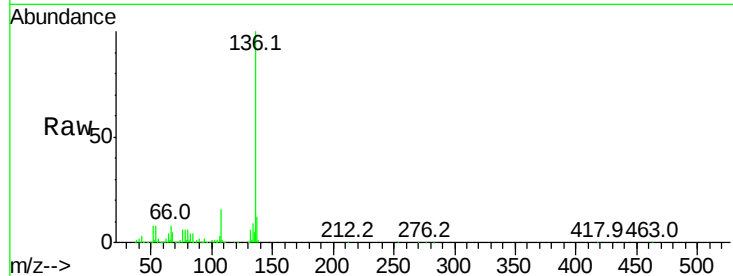
Ion Ratio Lower Upper

136 100

137 12.4 8.9 13.3

54 8.0 6.6 9.8

68 5.4 5.0 7.4

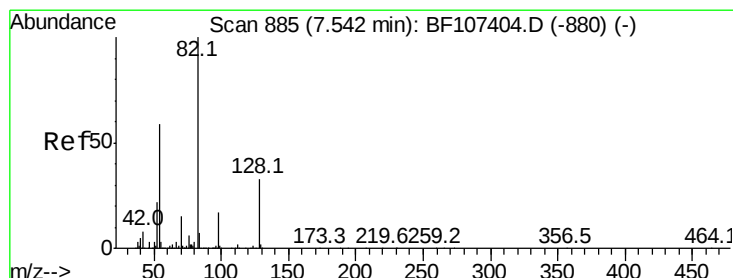
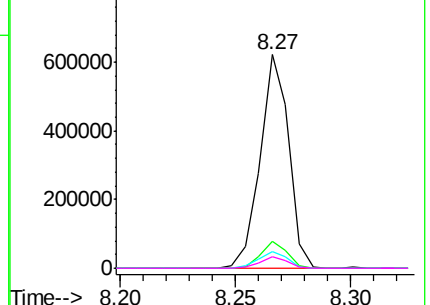
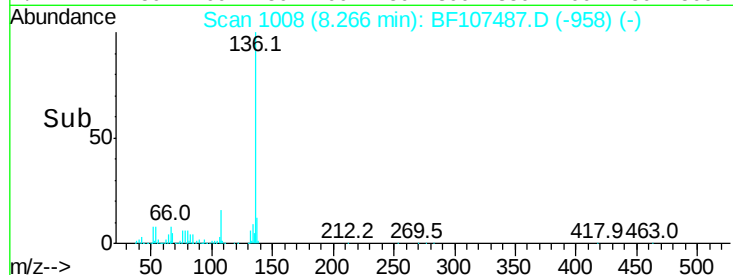


Abundance Ion 136.00 (135.70 to 136.70): E

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: 79.097 ng

RT: 7.55 min Scan# 886

Delta R.T. -0.01 min

Lab File: BF107487.D

Acq: 18 Jul 2018 19:33

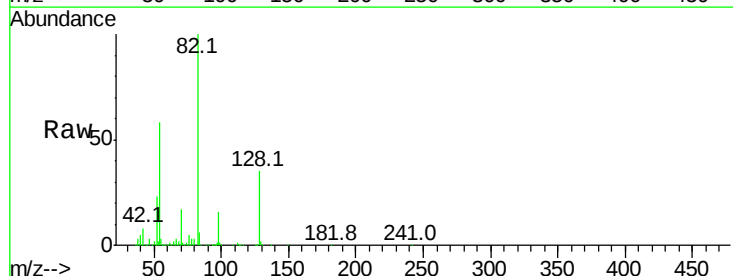
Tgt Ion: 82 Resp: 800410

Ion Ratio Lower Upper

82 100

128 35.3 36.1 54.1#

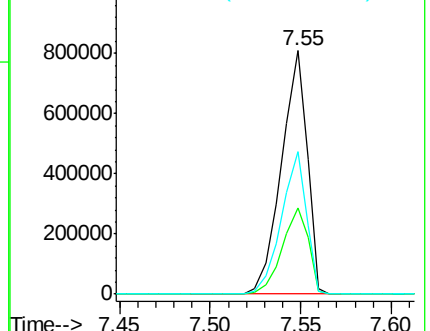
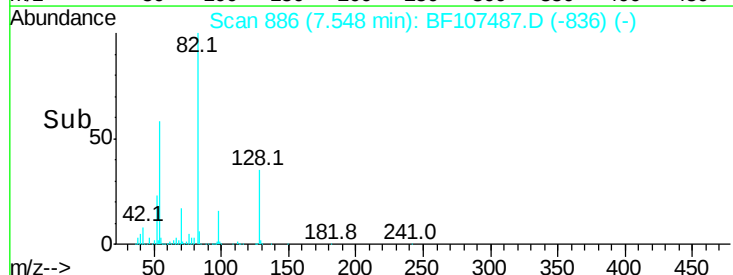
54 58.4 41.4 62.2

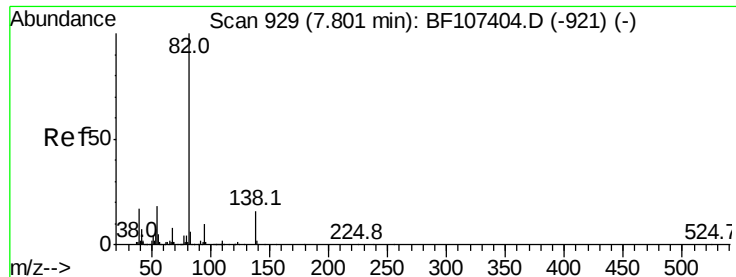


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 39.894 ng

RT: 7.55 min Scan# 886

Delta R.T. -0.26 min

Lab File: BF107487.D

Acq: 18 Jul 2018 19:33

Instrument :

BNA\_F

ClientSampleId :

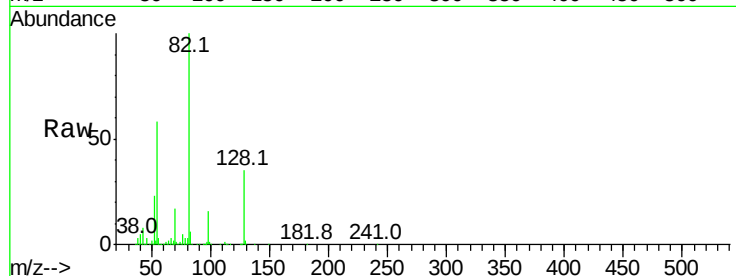
Tot Ion: 82 Resp: 800187

Ion Ratio Lower Upper

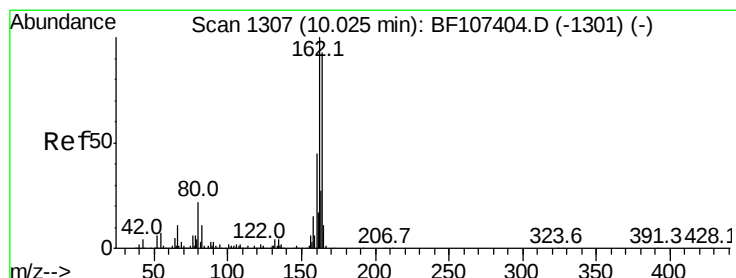
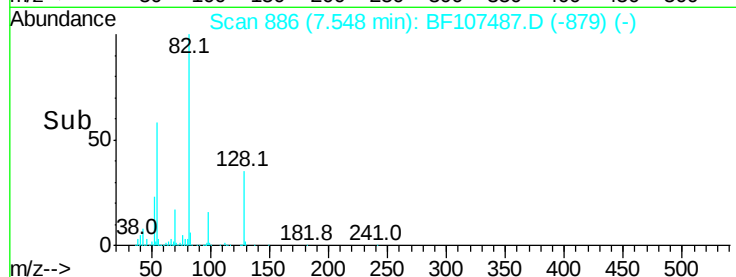
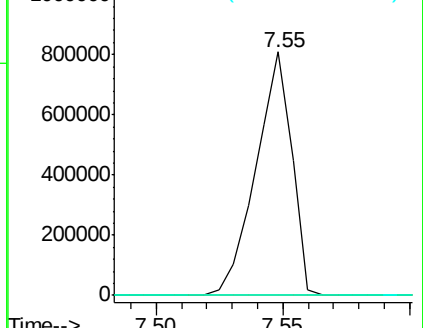
82 100

95 0.1 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: 10.03 min Scan# 1308

Delta R.T. 0.00 min

Lab File: BF107487.D

Acq: 18 Jul 2018 19:33

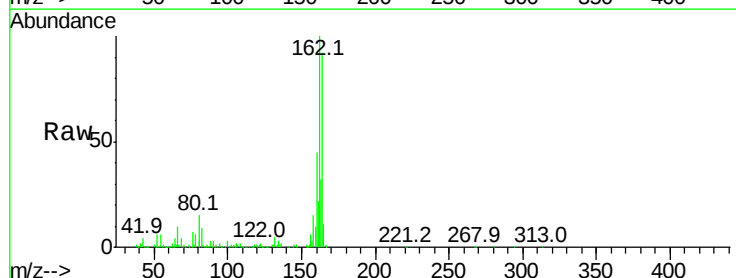
Tgt Ion: 164 Resp: 272694

Ion Ratio Lower Upper

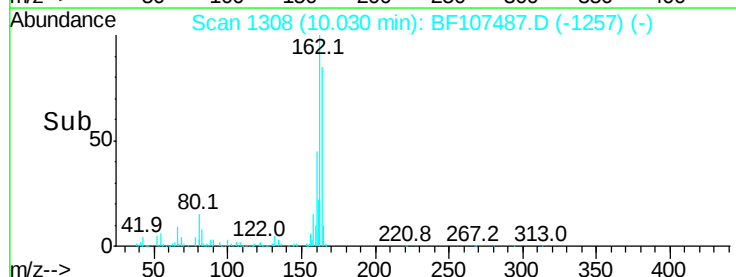
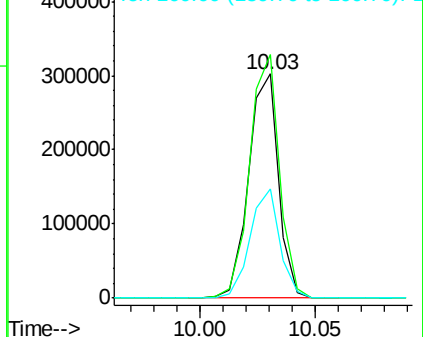
164 100

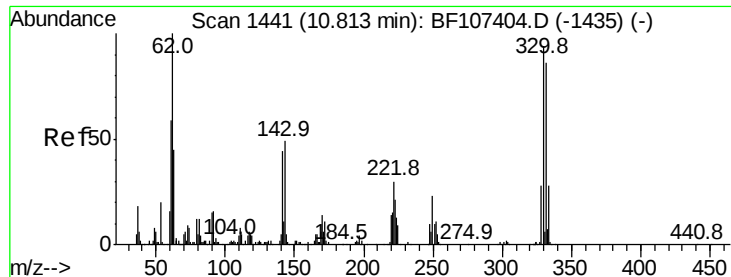
162 108.7 86.1 129.1

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

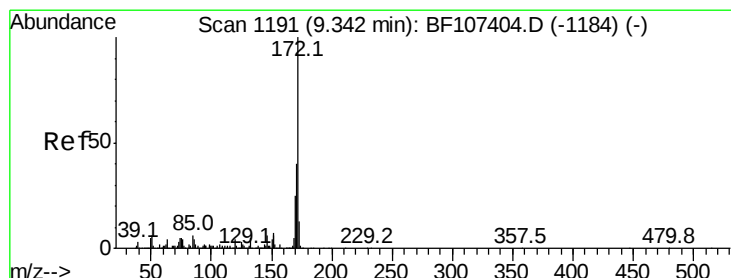
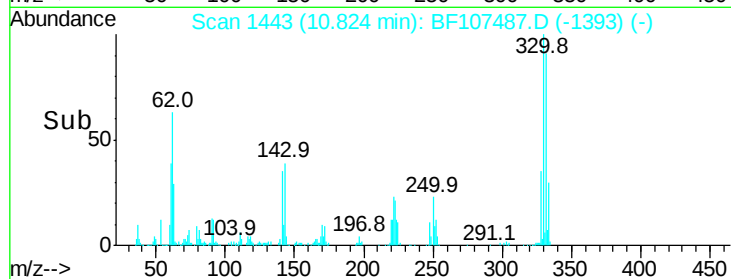
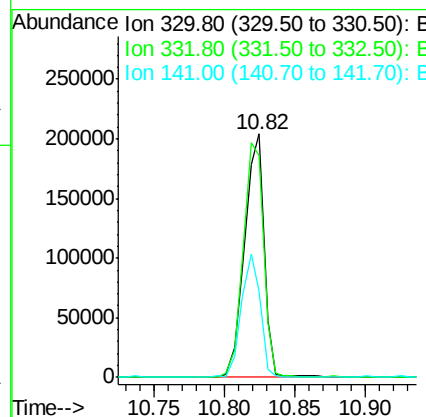
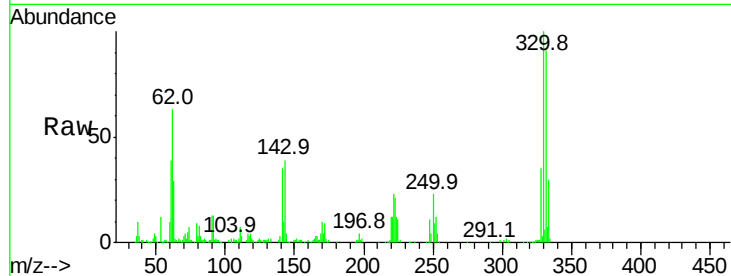




#41  
 2,4,6-Tribromophenol  
 Concen: 82.609 ng  
 RT: 10.82 min Scan# 1443  
 Delta R.T. -0.01 min  
 Lab File: BF107487.D  
 Acq: 18 Jul 2018 19:33

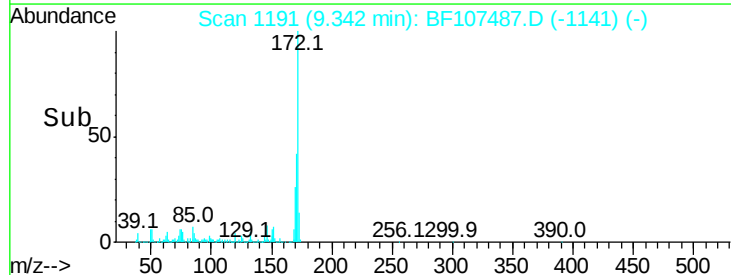
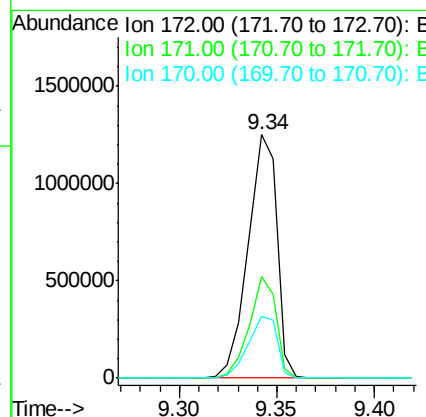
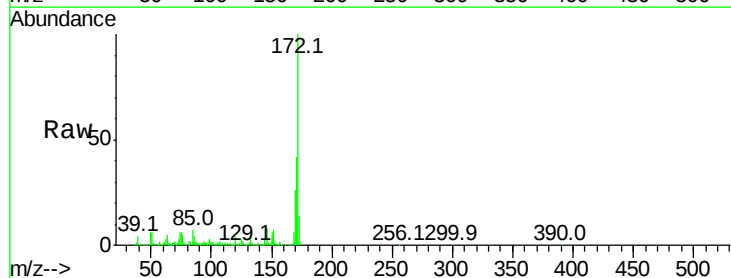
Instrument :  
 BNA\_F  
 ClientSampleId :

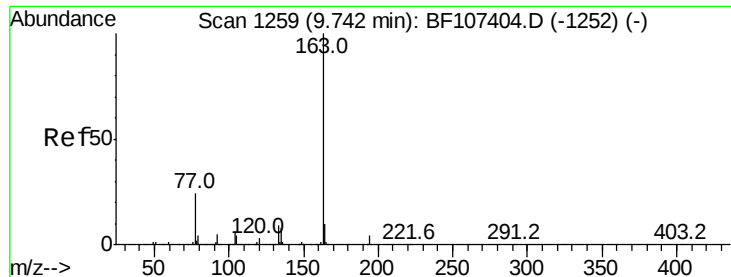
Tot Ion:330 Resp: 197925  
 Ion Ratio Lower Upper  
 330 100  
 332 100.7 77.0 115.6  
 141 48.3 29.9 44.9#



#44  
 2-Fluorobiphenyl  
 Concen: 77.792 ng  
 RT: 9.34 min Scan# 1191  
 Delta R.T. -0.01 min  
 Lab File: BF107487.D  
 Acq: 18 Jul 2018 19:33

Tgt Ion:172 Resp: 1287327  
 Ion Ratio Lower Upper  
 172 100  
 171 41.6 29.7 44.5  
 170 25.6 19.6 29.4

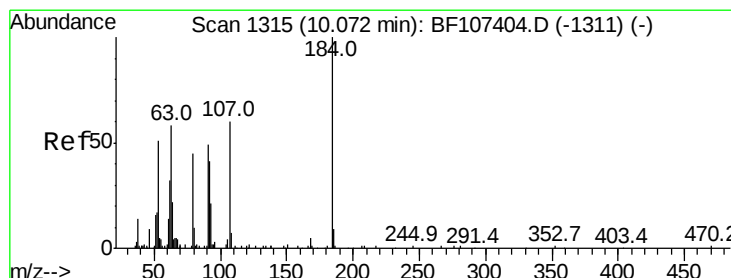
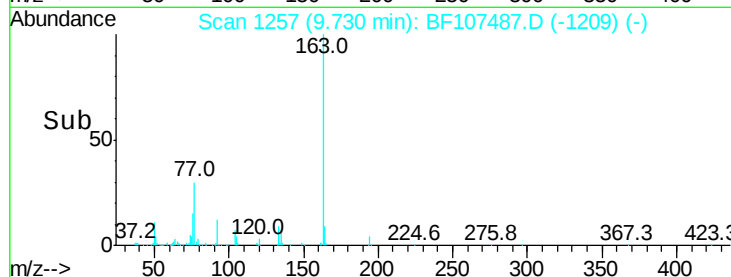
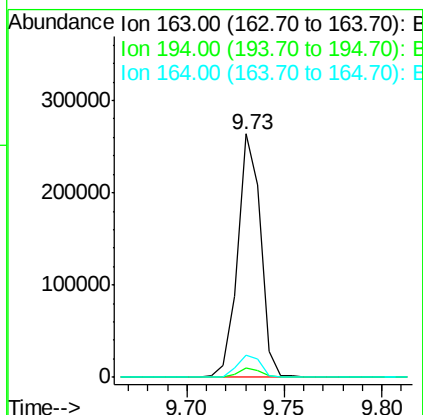
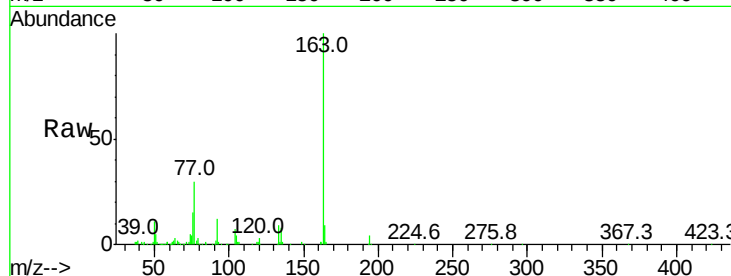




#49  
Dimethylphthalate  
Concen: 9.894 ng  
RT: 9.73 min Scan# 1257  
Delta R.T. -0.02 min  
Lab File: BF107487.D  
Acq: 18 Jul 2018 19:33

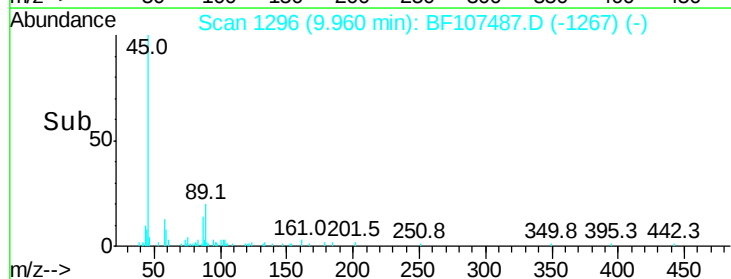
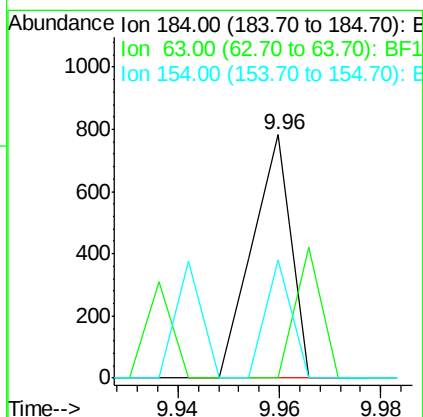
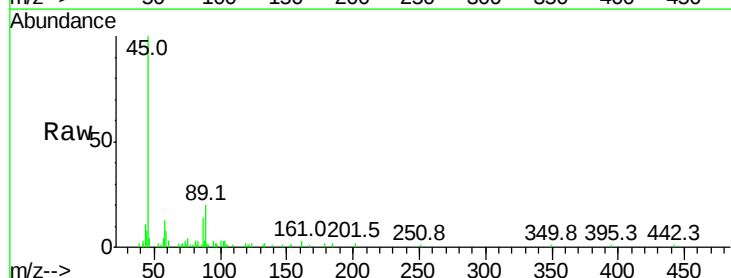
Instrument :  
BNA\_F  
ClientSampleId :

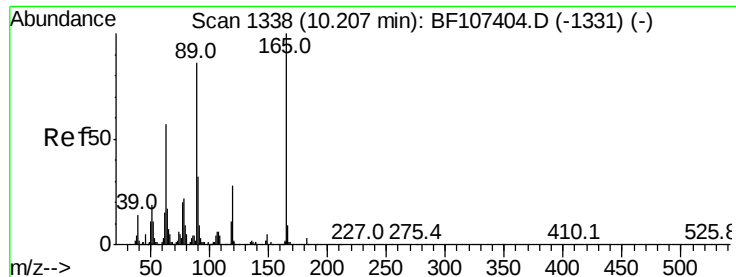
Tot Ion:163 Resp: 214360  
Ion Ratio Lower Upper  
163 100  
194 3.6 2.7 4.1  
164 9.1 8.2 12.2



#53  
2,4-Dinitrophenol  
Concen: 2.664 ng  
RT: 9.96 min Scan# 1296  
Delta R.T. -0.13 min  
Lab File: BF107487.D  
Acq: 18 Jul 2018 19:33

Tgt Ion:184 Resp: 412  
Ion Ratio Lower Upper  
184 100  
63 0.0 54.2 81.2#  
154 48.7 184.0 276.0#

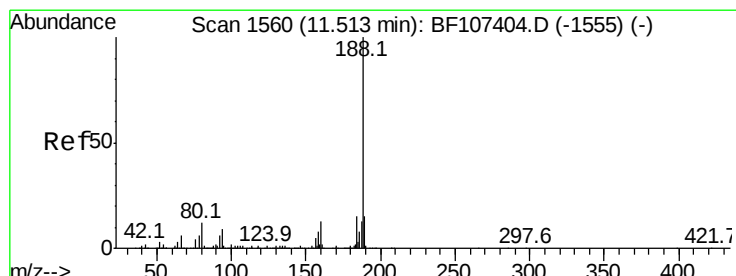
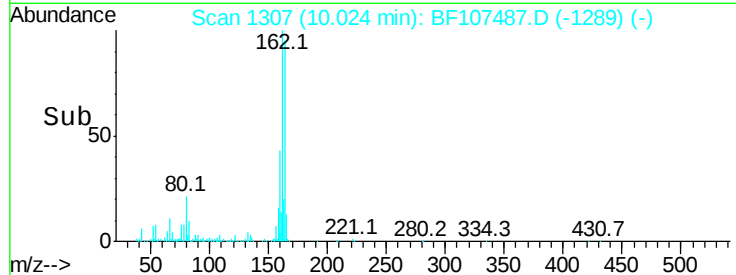
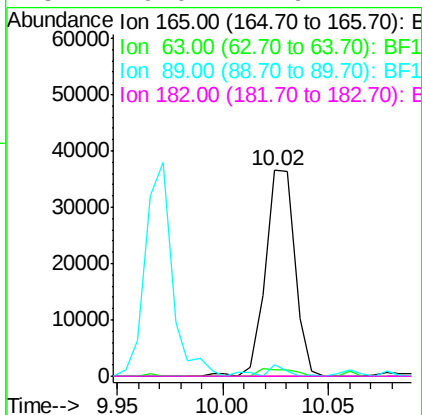
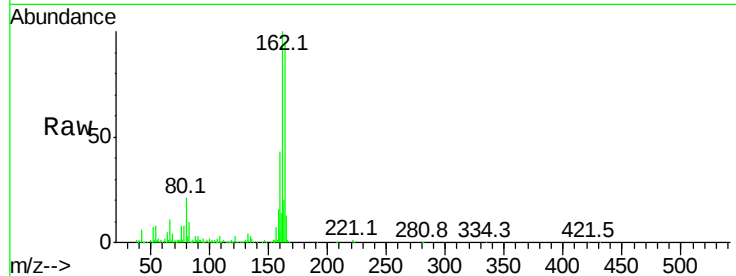




#56  
2,4-Dinitrotoluene  
Concen: 6.591 ng  
RT: 10.02 min Scan# 1307  
Delta R.T. -0.19 min  
Lab File: BF107487.D  
Acq: 18 Jul 2018 19:33

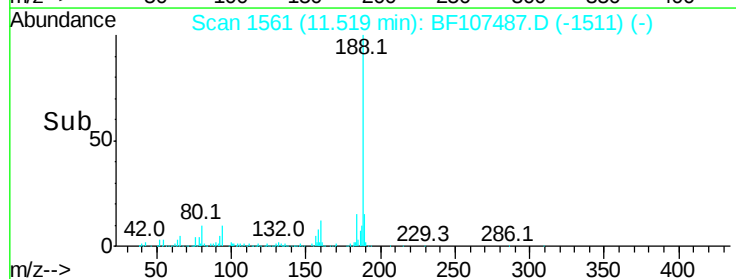
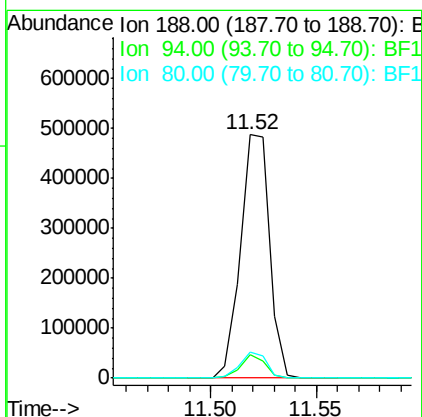
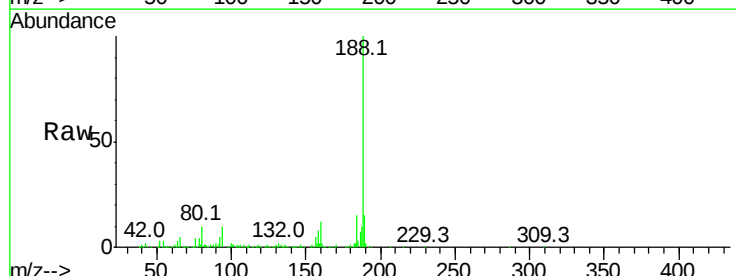
Instrument :  
BNA\_F  
ClientSampleId :

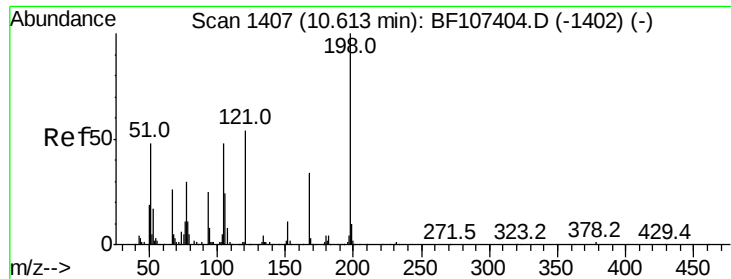
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 3.4   | 36.4  | 54.6# |
| 89      | 5.3   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |



#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.52 min Scan# 1561  
Delta R.T. -0.01 min  
Lab File: BF107487.D  
Acq: 18 Jul 2018 19:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.7   | 8.5   | 12.7  |
| 80      | 10.5  | 9.2   | 13.8  |

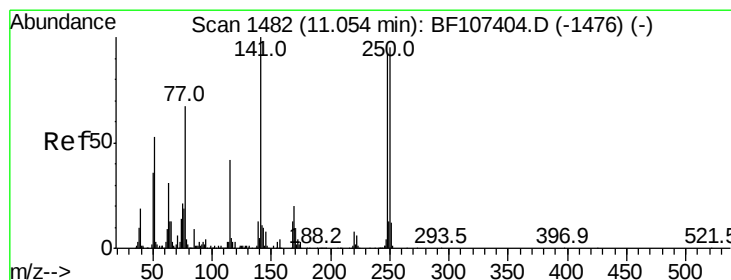
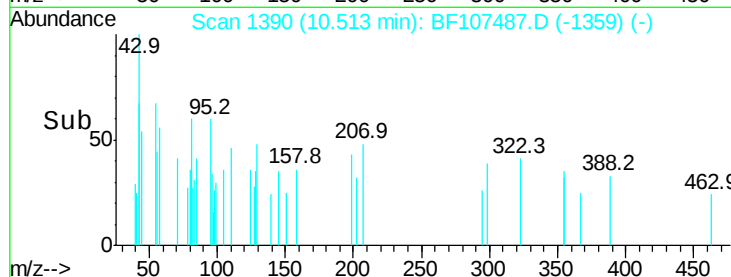
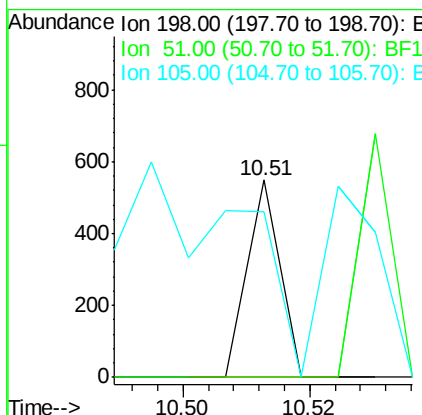
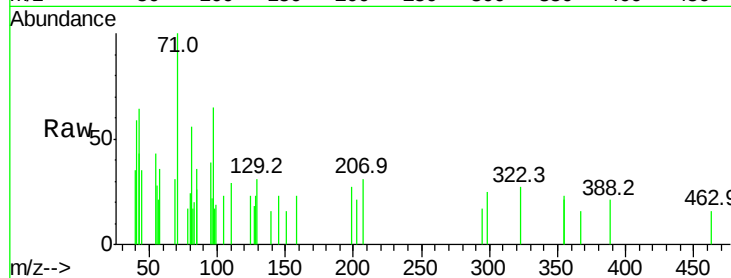




#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 7.554 ng  
 RT: 10.51 min Scan# 1390  
 Delta R.T. -0.12 min  
 Lab File: BF107487.D  
 Acq: 18 Jul 2018 19:33

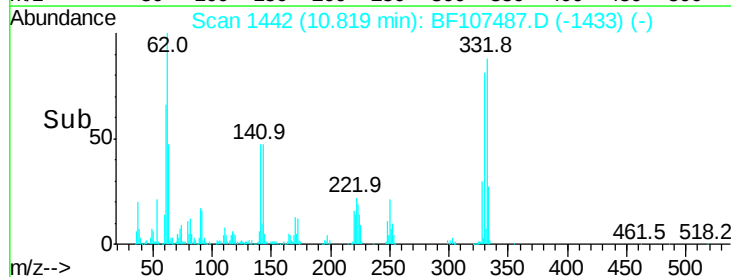
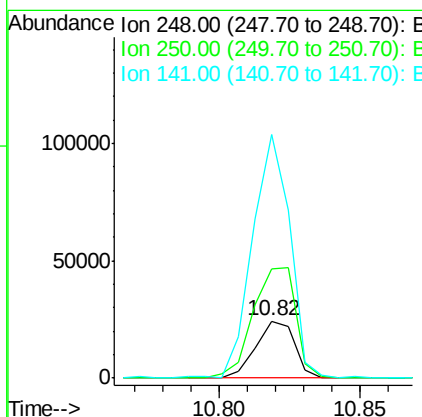
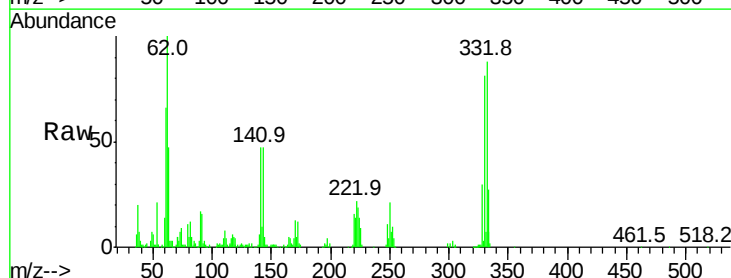
Instrument :  
 BNA\_F  
 ClientSampled :

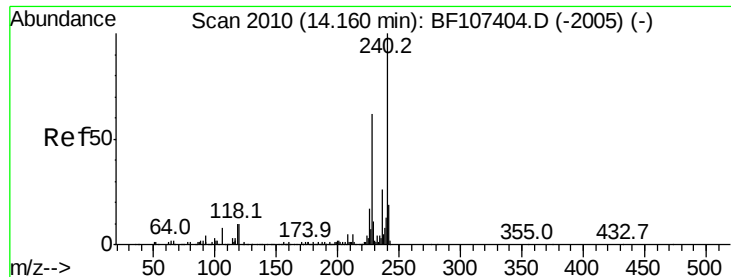
Tot Ion:198 Resp: 193  
 Ion Ratio Lower Upper  
 198 100  
 51 0.0 37.7 77.7#  
 105 84.1 36.3 76.3#



#66  
 4-Bromophenyl-phenylether  
 Concen: 4.368 ng  
 RT: 10.82 min Scan# 1442  
 Delta R.T. -0.25 min  
 Lab File: BF107487.D  
 Acq: 18 Jul 2018 19:33

Tgt Ion:248 Resp: 23281  
 Ion Ratio Lower Upper  
 248 100  
 250 191.6 76.9 115.3#  
 141 426.8 74.4 111.6#





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.17 min Scan# 2012

Delta R.T. -0.01 min

Lab File: BF107487.D

Acq: 18 Jul 2018 19:33

Instrument :

BNA\_F

ClientSampleId :

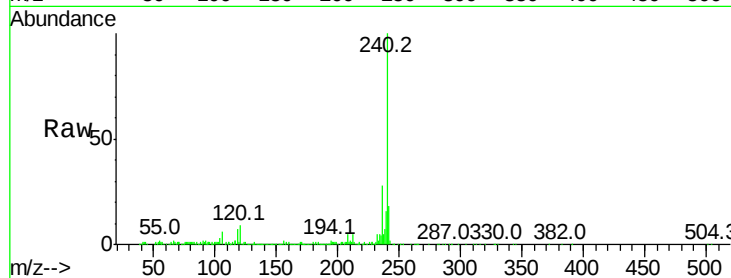
Tot Ion:240 Resp: 358211

Ion Ratio Lower Upper

240 100

120 8.6 9.5 14.3#

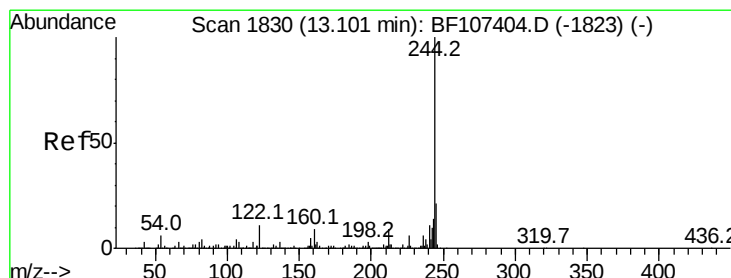
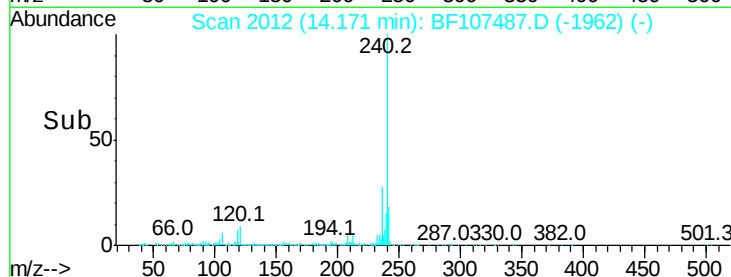
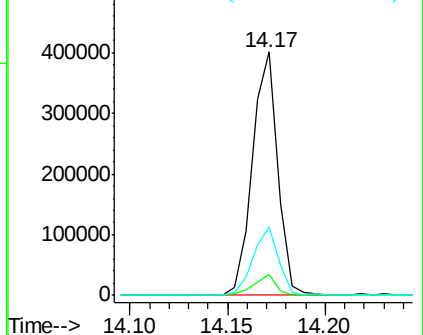
236 28.3 20.7 31.1



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: 70.220 ng

RT: 13.11 min Scan# 1831

Delta R.T. -0.01 min

Lab File: BF107487.D

Acq: 18 Jul 2018 19:33

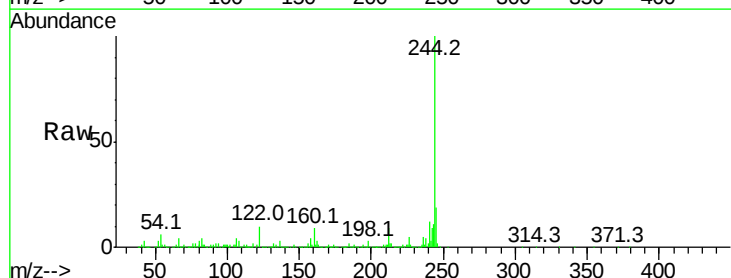
Tgt Ion:244 Resp: 1012382

Ion Ratio Lower Upper

244 100

212 8.6 5.4 8.0#

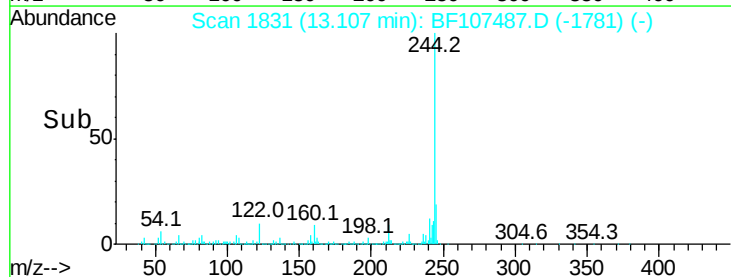
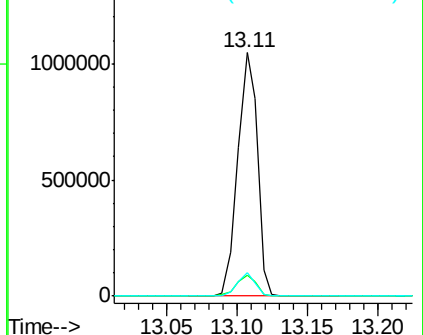
122 9.6 11.0 16.4#

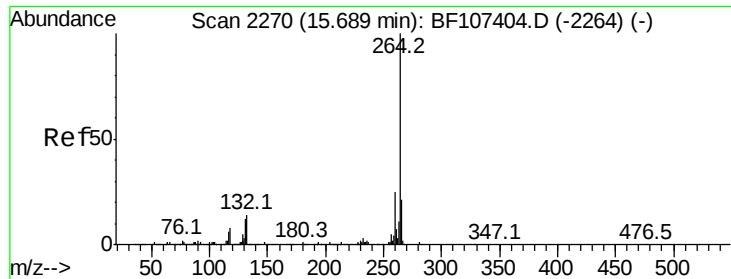


Abundance Ion 244.00 (243.70 to 244.70): E

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: 15.71 min Scan# 2274  
 Delta R.T. 0.00 min  
 Lab File: BF107487.D  
 Acq: 18 Jul 2018 19:33

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.1  | 19.2  | 28.8  |
| 265     | 21.4  | 17.5  | 26.3  |

