

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042418\  
 Data File : BF104759.D  
 Acq On : 24 Apr 2018 16:34  
 Operator : JU/SJ  
 Sample : J2475-08  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Apr 24 21:56:28 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 23 15:38:25 2018  
 Response via : Initial Calibration

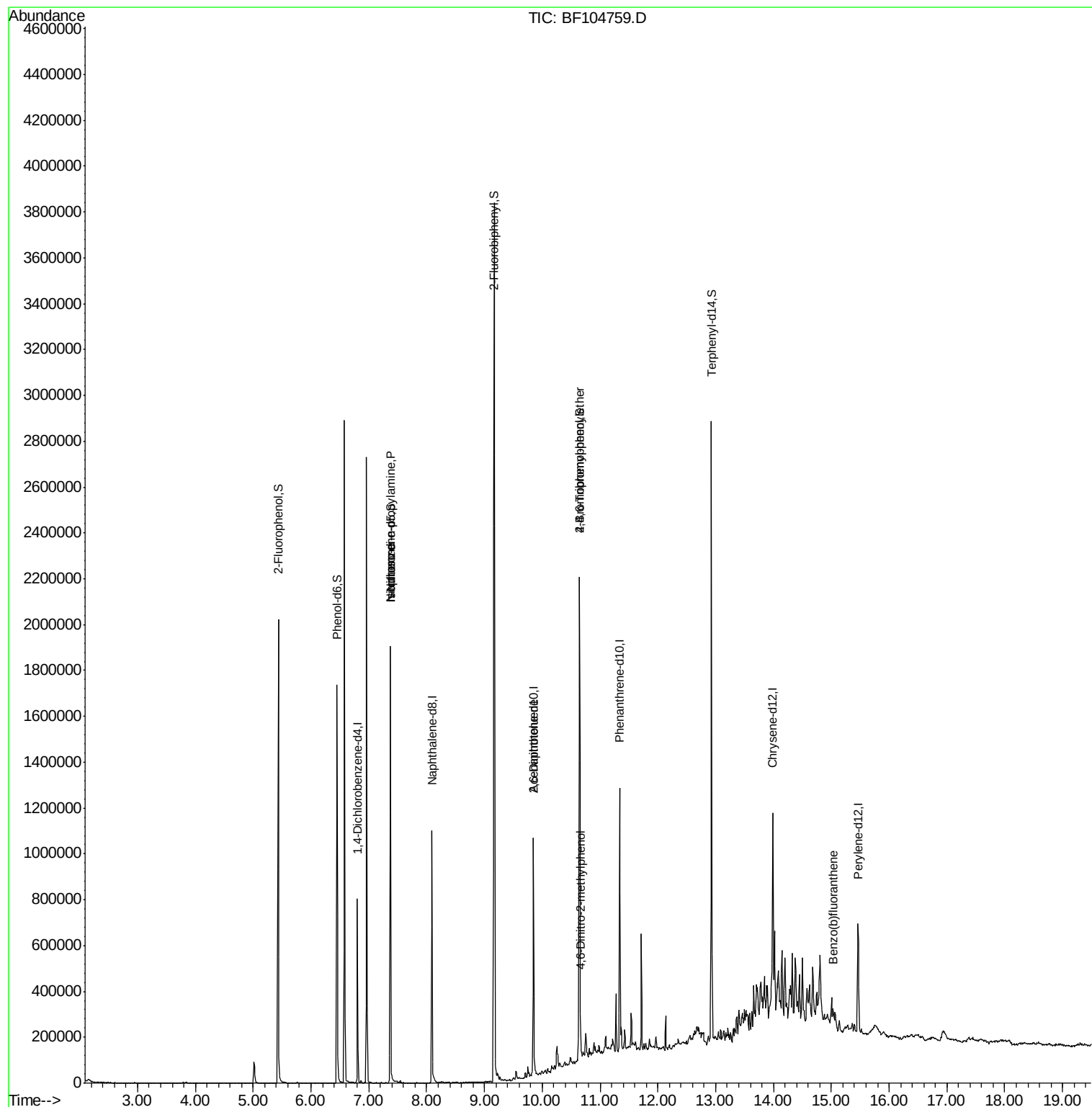
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.80  | 152  | 118113   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.09  | 136  | 496181   | 20.00     | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.85  | 164  | 225205   | 20.00     | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.34 | 188  | 371333   | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12               | 13.99 | 240  | 287755   | 20.00     | ng    | 0.00     |
| 86) Perylene-d12               | 15.46 | 264  | 227850   | 20.00     | ng    | 0.01     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.43  | 112  | 634105   | 82.09     | ng    | 0.02     |
| 7) Phenol-d6                   | 6.45  | 99   | 578132   | 60.91     | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.37  | 82   | 707896   | 93.16     | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.65 | 330  | 286801   | 122.77    | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.17  | 172  | 1300434  | 91.22     | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.93 | 244  | 1034999  | 82.00     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.45  | 77   | 1084     | Below Cal | #     | 1        |
| 19) n-Nitroso-di-n-propylamine | 7.37  | 70   | 93306    | 15.045 ng | #     | 72       |
| 25) Isophorone                 | 7.37  | 82   | 707890   | 44.054 ng | #     | 64       |
| 50) 2,6-Dinitrotoluene         | 9.85  | 165  | 30187    | 9.186 ng  | #     | 25       |
| 64) 4,6-Dinitro-2-methylphenol | 10.66 | 198  | 1229     | 7.923 ng  | #     | 30       |
| 66) 4-Bromophenyl-phenylether  | 10.65 | 248  | 17560    | 4.446 ng  | #     | 1        |
| 76) Benzidine                  | 12.93 | 184  | 13936    | Below Cal | #     | 94       |
| 87) Benzo(b)fluoranthene       | 15.03 | 252  | 32899    | 2.286 ng  | #     | 88       |

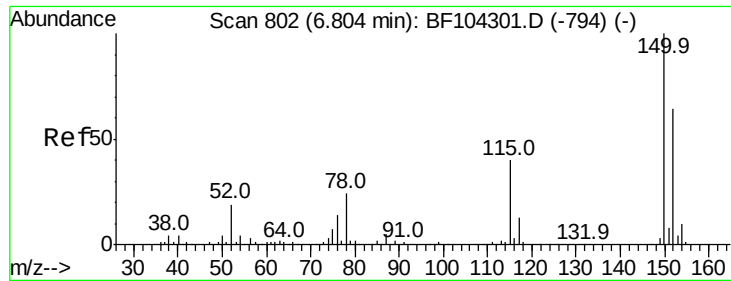
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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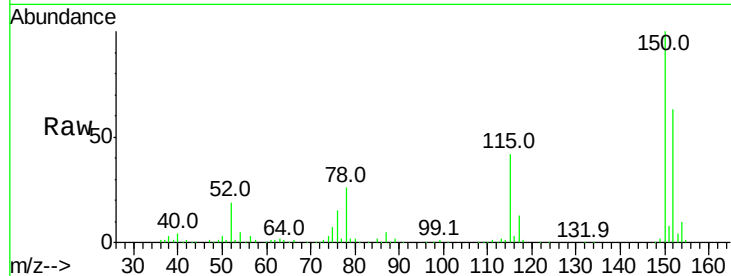


#1

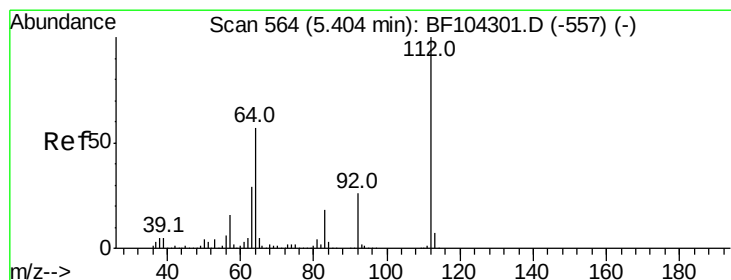
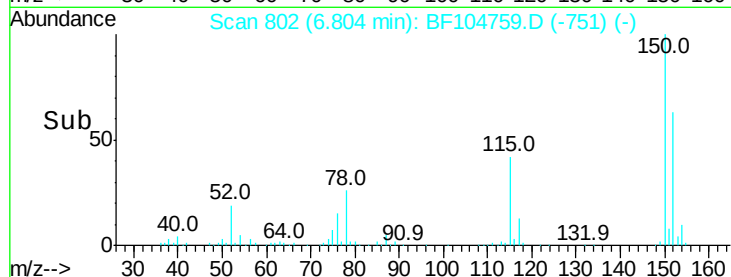
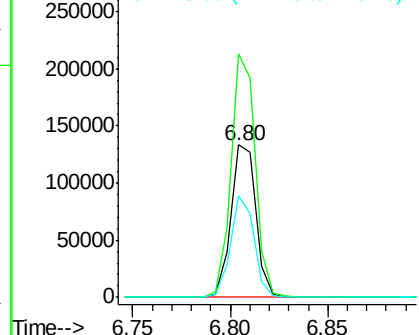
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.80 min Scan# 802  
Delta R.T. -0.00 min  
Lab File: BF104759.D  
Acq: 24 Apr 2018 16:34

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:152 Resp: 118113  
Ion Ratio Lower Upper  
152 100  
150 159.8 124.6 186.8  
115 66.8 50.1 75.1



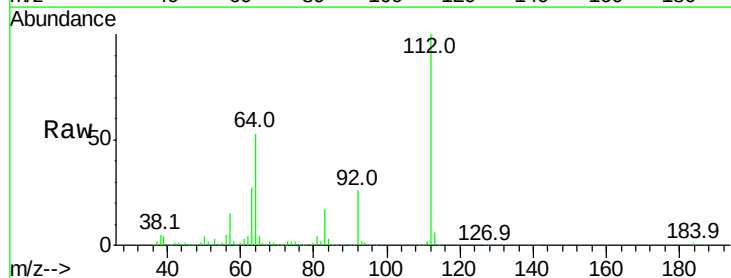
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



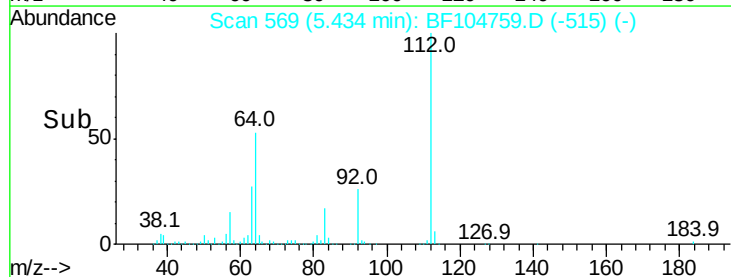
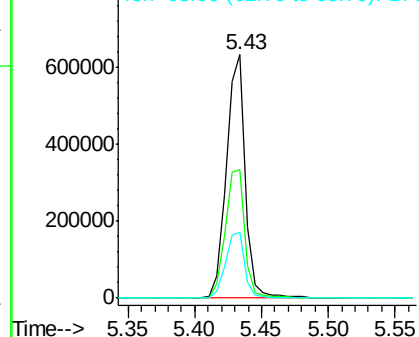
#5

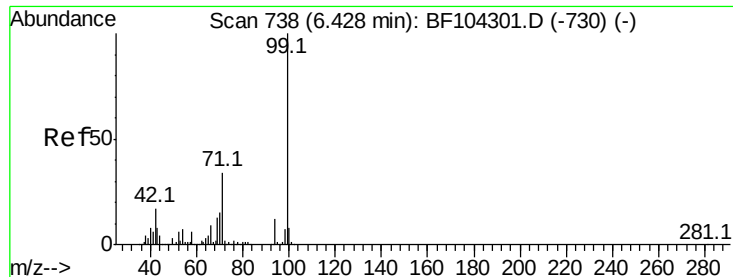
2-Fluorophenol  
Concen: 82.089 ng  
RT: 5.43 min Scan# 569  
Delta R.T. 0.02 min  
Lab File: BF104759.D  
Acq: 24 Apr 2018 16:34

Tgt Ion:112 Resp: 634105  
Ion Ratio Lower Upper  
112 100  
64 52.7 47.9 71.9  
63 26.8 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: 60.914 ng

RT: 6.45 min Scan# 742

Delta R.T. 0.01 min

Lab File: BF104759.D

Acq: 24 Apr 2018 16:34

Instrument :

BNA\_F

ClientSampleId :

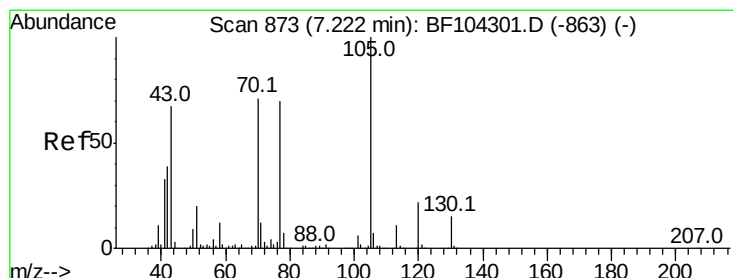
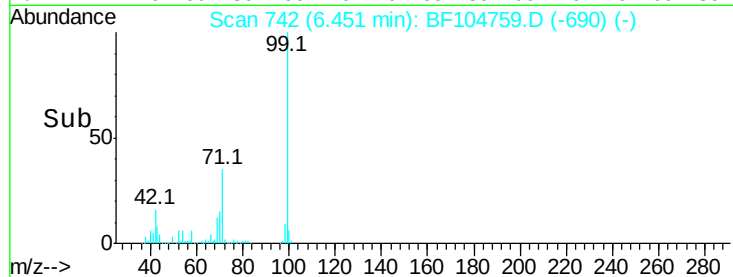
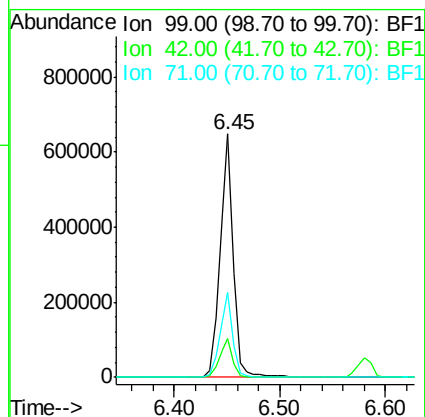
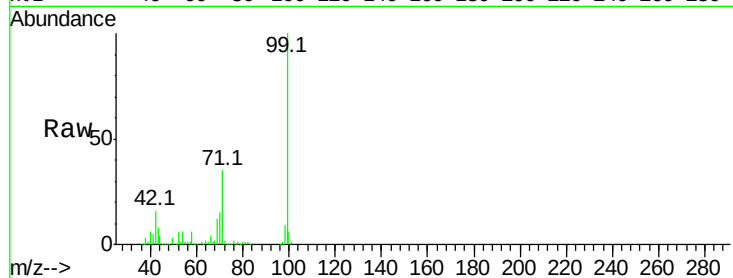
Tot Ion: 99 Resp: 578132

Ion Ratio Lower Upper

99 100

42 15.8 14.5 21.7

71 34.8 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 15.045 ng

RT: 7.37 min Scan# 899

Delta R.T. 0.15 min

Lab File: BF104759.D

Acq: 24 Apr 2018 16:34

Tgt Ion: 70 Resp: 93306

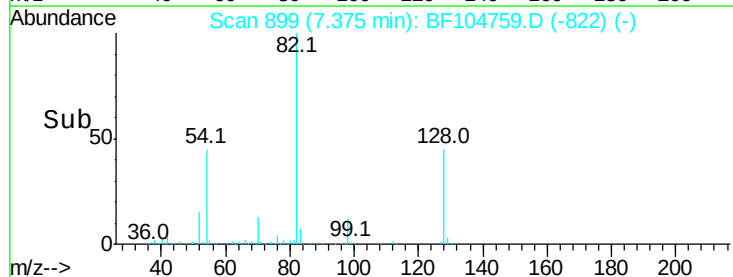
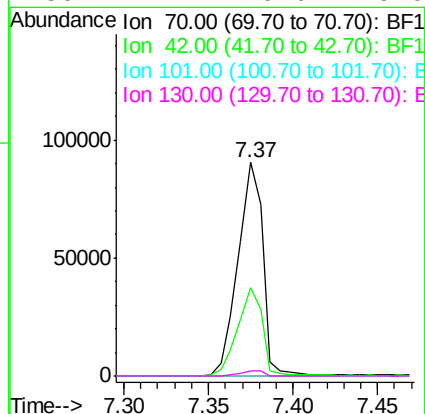
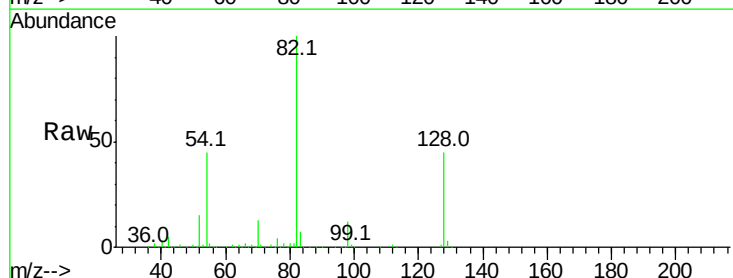
Ion Ratio Lower Upper

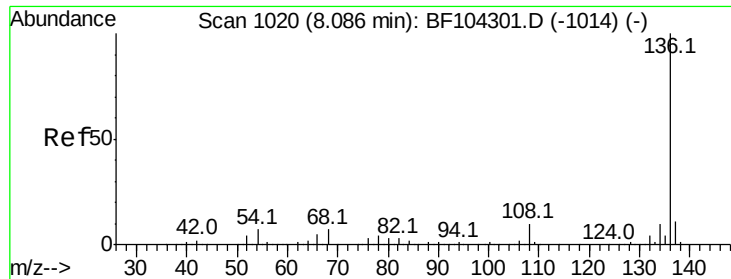
70 100

42 41.2 47.5 71.3#

101 0.0 7.4 11.2#

130 2.2 16.6 25.0#

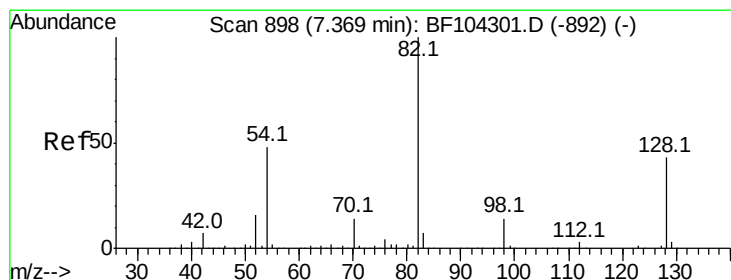
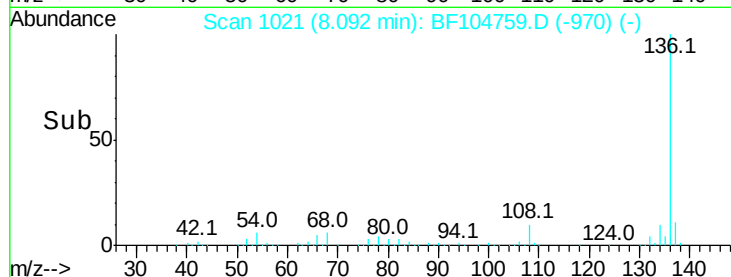
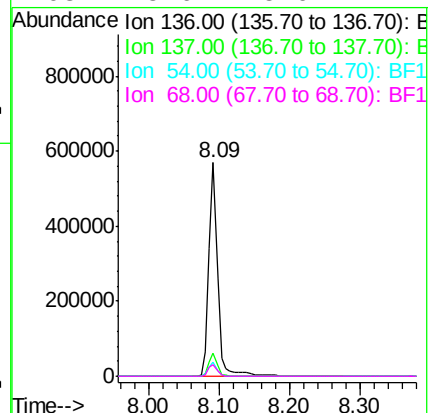
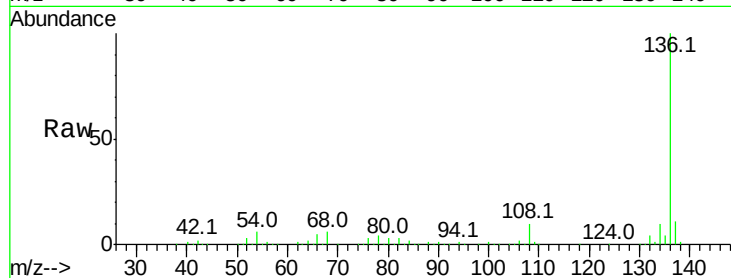




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.09 min Scan# 1021  
Delta R.T. -0.00 min  
Lab File: BF104759.D  
Acq: 24 Apr 2018 16:34

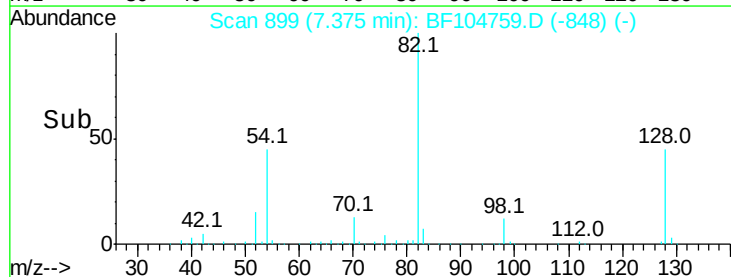
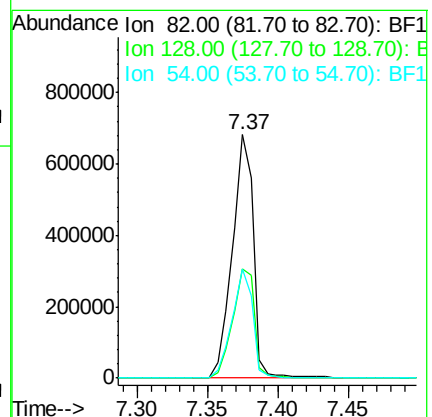
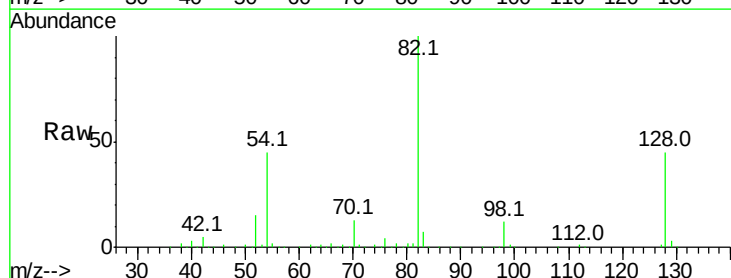
Instrument :  
BNA\_F  
ClientSampleId :

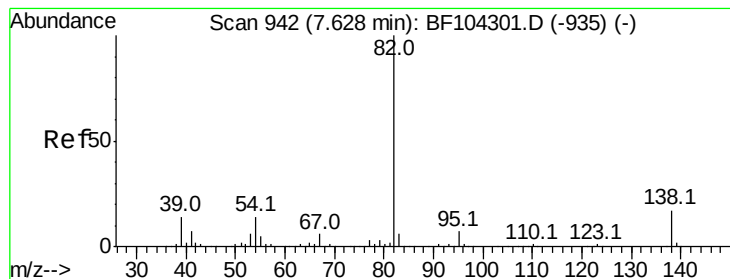
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 496181 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.6  | 8.9   | 13.3   |
| 54       | 6.3   | 6.6   | 9.8#   |
| 68       | 5.6   | 5.0   | 7.4    |



#23  
Nitrobenzene-d5  
Concen: 93.160 ng  
RT: 7.37 min Scan# 899  
Delta R.T. -0.00 min  
Lab File: BF104759.D  
Acq: 24 Apr 2018 16:34

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 707896 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 45.1  | 36.1  | 54.1   |
| 54       | 45.1  | 41.4  | 62.2   |





#25

Isophorone

Concen: 44.054 ng

RT: 7.37 min Scan# 899

Delta R.T. -0.25 min

Lab File: BF104759.D

Acq: 24 Apr 2018 16:34

Instrument :

BNA\_F

ClientSampled :

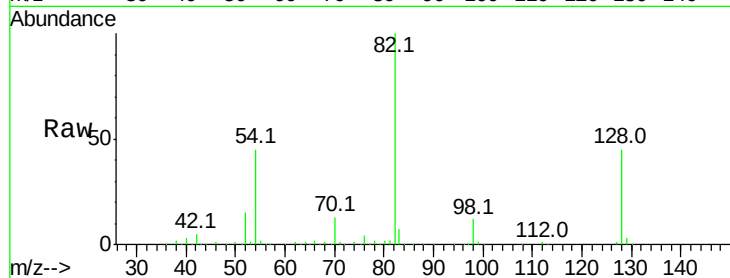
Tot Ion: 82 Resp: 707890

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

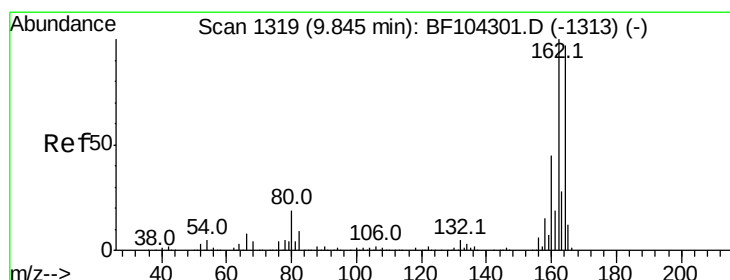
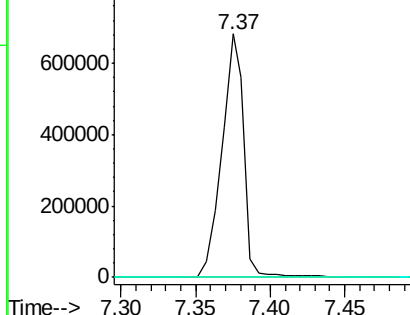
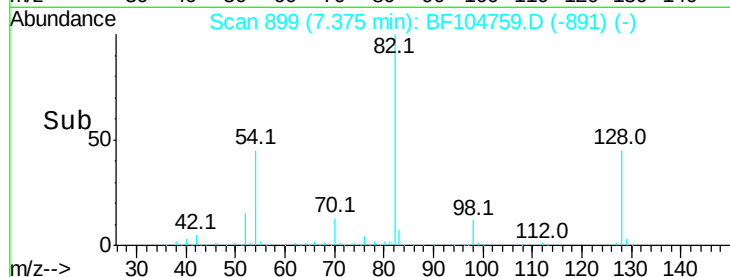
138 0.0 14.9 22.3#



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: 9.85 min Scan# 1319

Delta R.T. -0.00 min

Lab File: BF104759.D

Acq: 24 Apr 2018 16:34

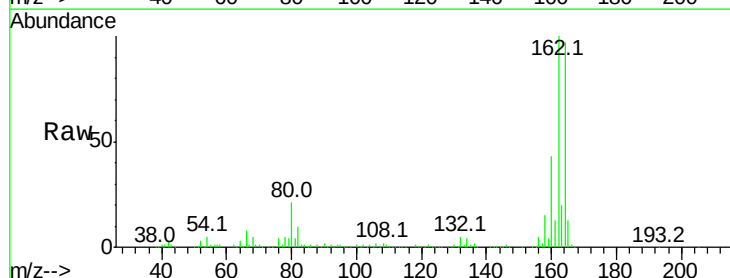
Tgt Ion:164 Resp: 225205

Ion Ratio Lower Upper

164 100

162 103.4 86.1 129.1

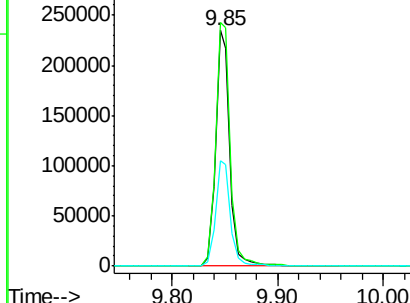
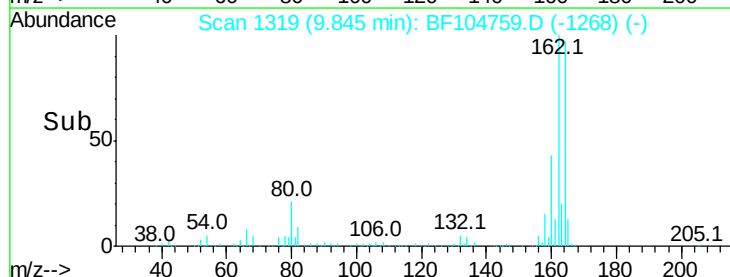
160 44.5 38.3 57.5

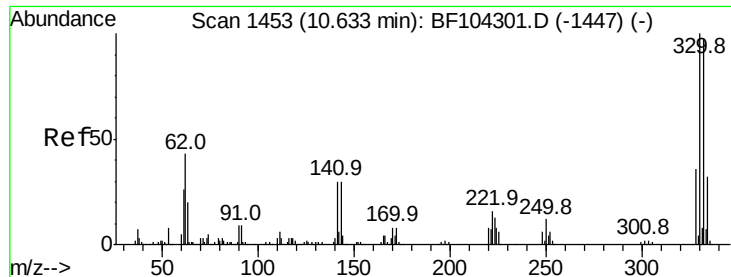


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

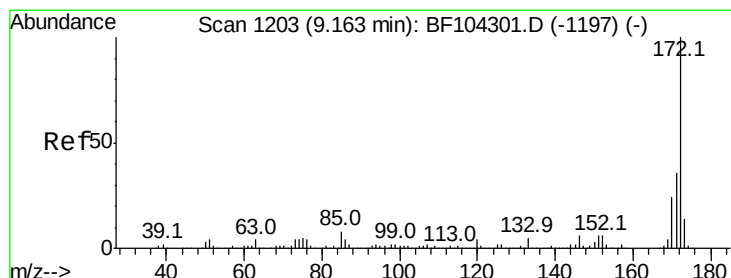
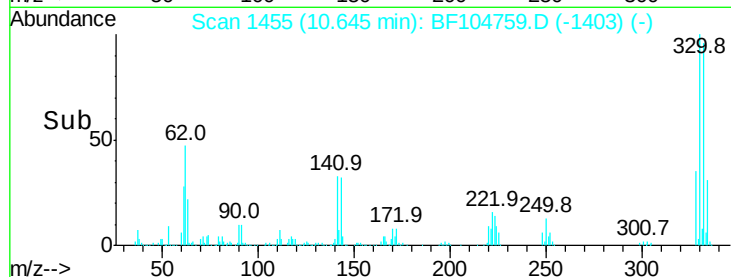
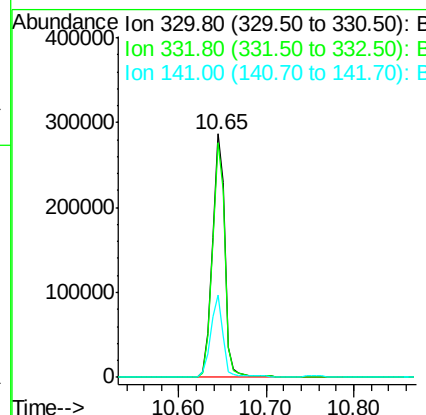
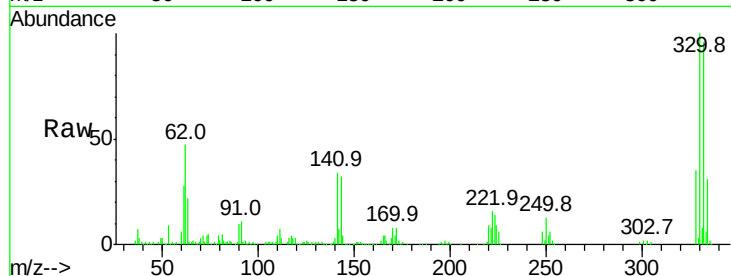




#41  
 2,4,6-Tribromophenol  
 Concen: 122.768 ng  
 RT: 10.65 min Scan# 1455  
 Delta R.T. 0.01 min  
 Lab File: BF104759.D  
 Acq: 24 Apr 2018 16:34

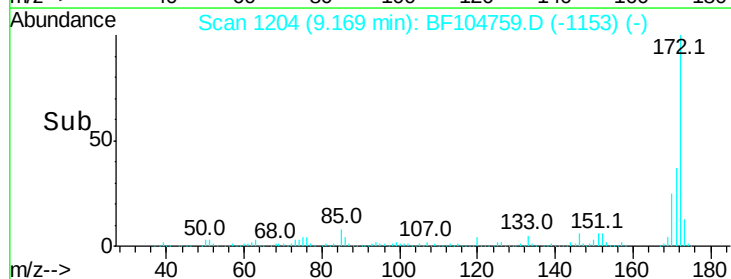
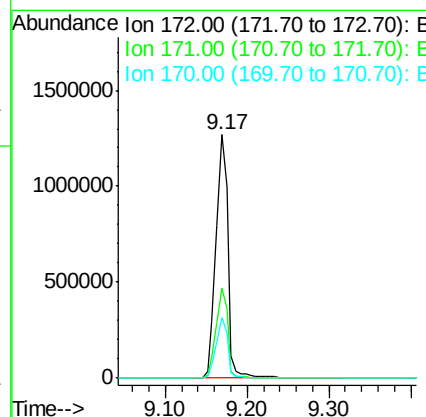
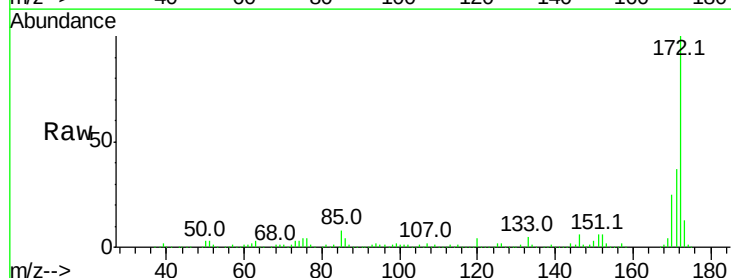
Instrument :  
 BNA\_F  
 ClientSampleId :

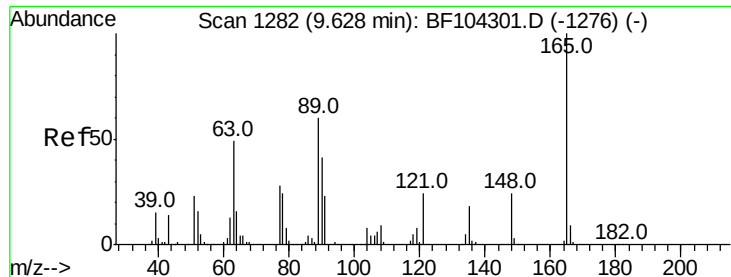
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.7  | 77.0  | 115.6 |
| 141     | 32.9  | 29.9  | 44.9  |



#44  
 2-Fluorobiphenyl  
 Concen: 91.222 ng  
 RT: 9.17 min Scan# 1204  
 Delta R.T. -0.00 min  
 Lab File: BF104759.D  
 Acq: 24 Apr 2018 16:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.9  | 29.7  | 44.5  |
| 170     | 24.7  | 19.6  | 29.4  |

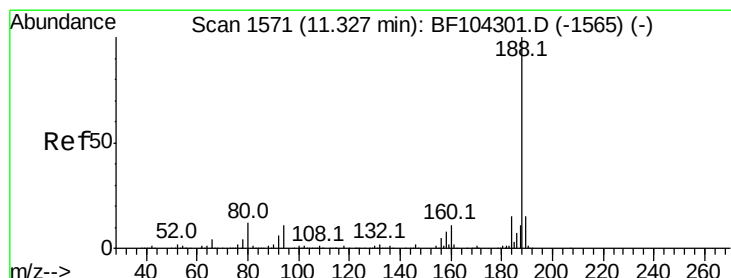
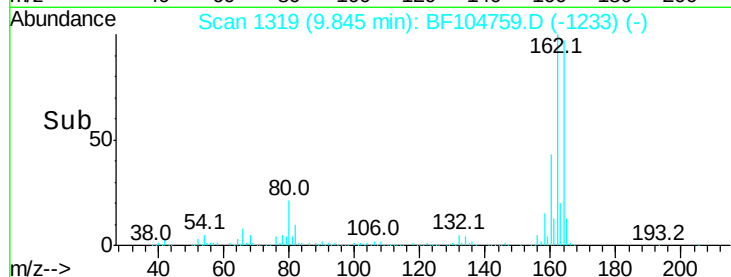
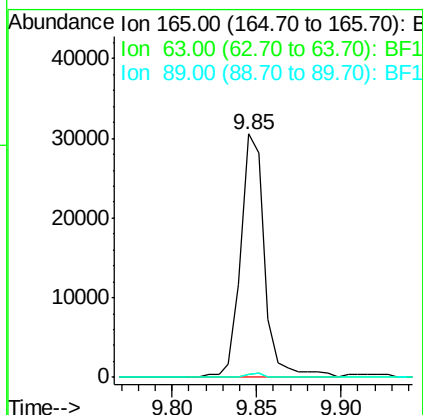
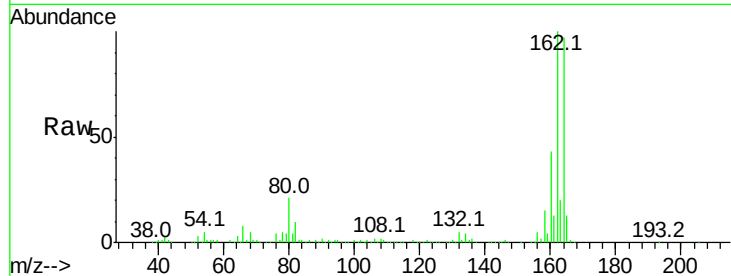




#50  
 2,6-Dinitrotoluene  
 Concen: 9.186 ng  
 RT: 9.85 min Scan# 1319  
 Delta R.T. 0.21 min  
 Lab File: BF104759.D  
 Acq: 24 Apr 2018 16:34

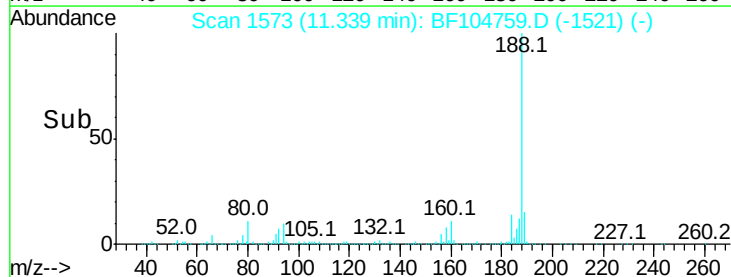
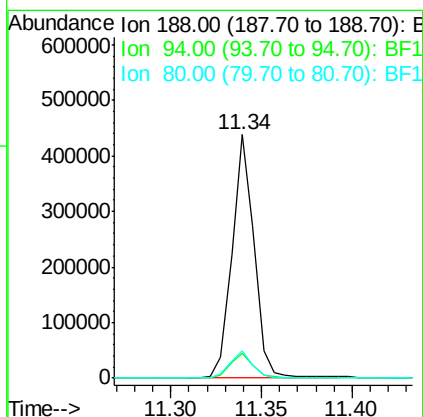
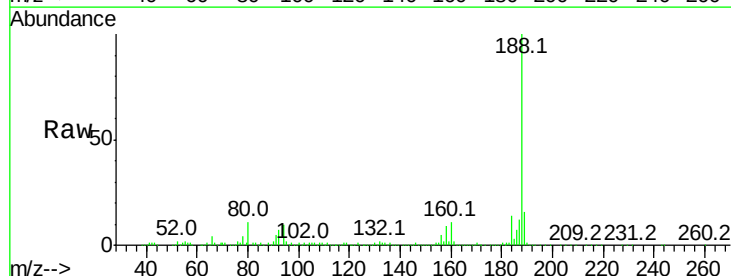
Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:165 Resp: 30187  
 Ion Ratio Lower Upper  
 165 100  
 63 1.2 44.7 67.1#  
 89 1.1 44.0 66.0#

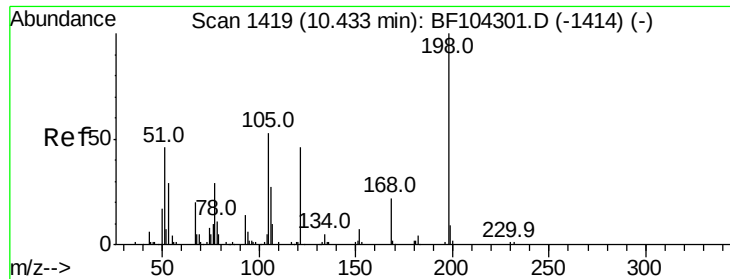


#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.34 min Scan# 1573  
 Delta R.T. 0.01 min  
 Lab File: BF104759.D  
 Acq: 24 Apr 2018 16:34

Tgt Ion:188 Resp: 371333  
 Ion Ratio Lower Upper  
 188 100  
 94 10.1 8.5 12.7  
 80 11.4 9.2 13.8



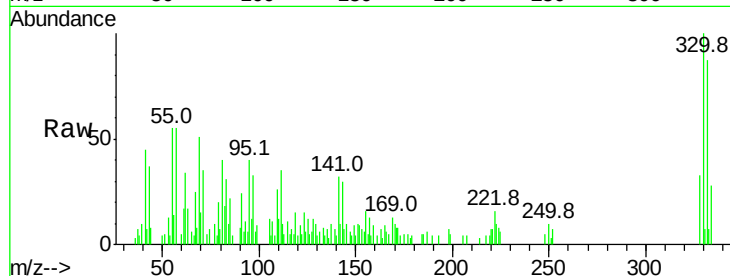




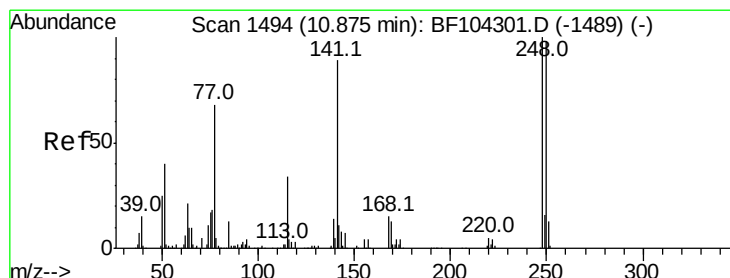
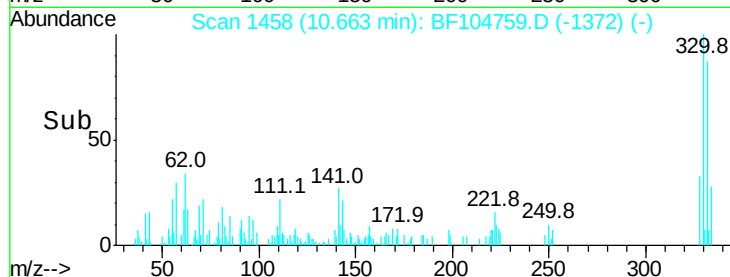
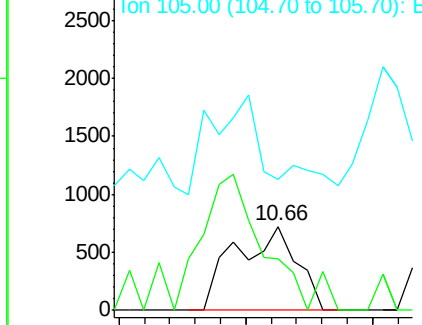
#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 7.923 ng  
 RT: 10.66 min Scan# 1458  
 Delta R.T. 0.21 min  
 Lab File: BF104759.D  
 Acq: 24 Apr 2018 16:34

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:198 Resp: 1229  
 Ion Ratio Lower Upper  
 198 100  
 51 61.3 37.7 77.7  
 105 156.4 36.3 76.3#

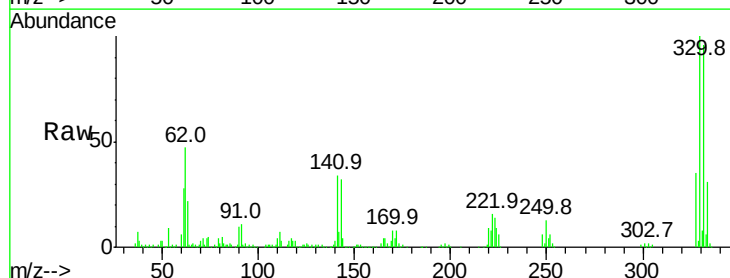


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF1  
 Ion 105.00 (104.70 to 105.70): E

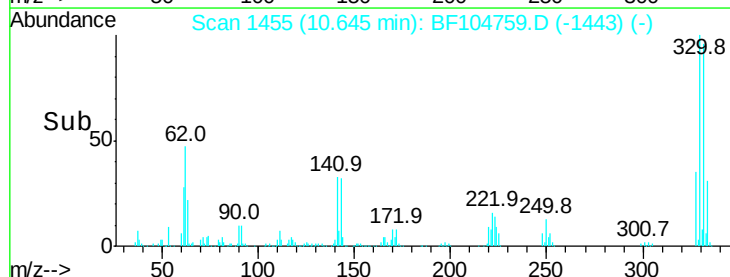
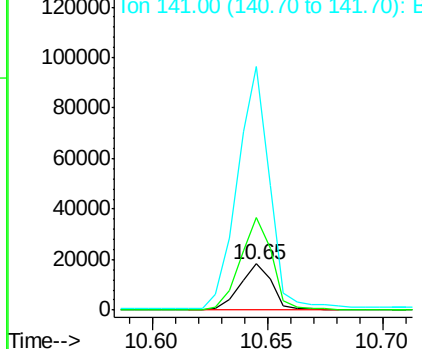


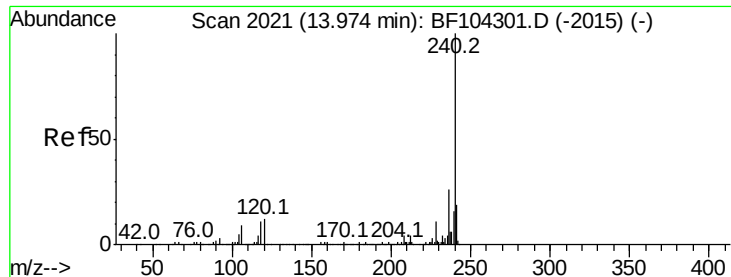
#66  
 4-Bromophenyl-phenylether  
 Concen: 4.446 ng  
 RT: 10.65 min Scan# 1455  
 Delta R.T. -0.23 min  
 Lab File: BF104759.D  
 Acq: 24 Apr 2018 16:34

Tgt Ion:248 Resp: 17560  
 Ion Ratio Lower Upper  
 248 100  
 250 202.2 76.9 115.3#  
 141 530.4 74.4 111.6#



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





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.99 min Scan# 2023

Delta R.T. -0.00 min

Lab File: BF104759.D

Acq: 24 Apr 2018 16:34

Instrument :

BNA\_F

ClientSampleId :

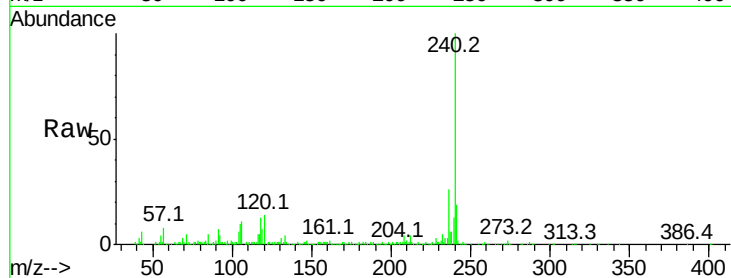
Tot Ion:240 Resp: 287755

Ion Ratio Lower Upper

240 100

120 13.9 9.5 14.3

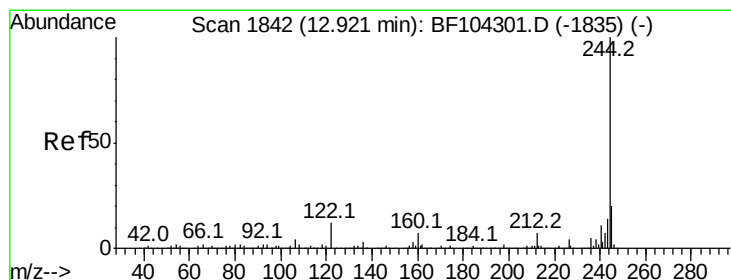
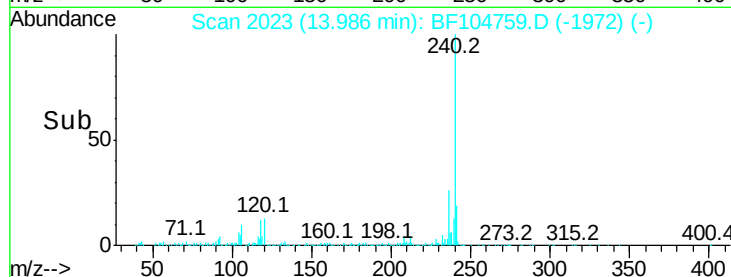
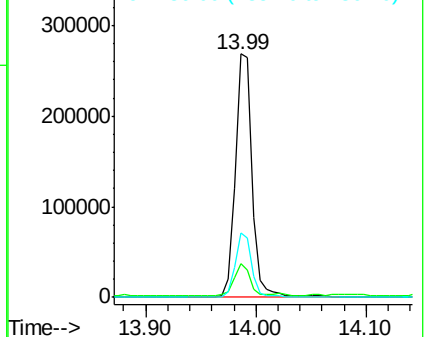
236 26.4 20.7 31.1



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: 82.001 ng

RT: 12.93 min Scan# 1843

Delta R.T. 0.01 min

Lab File: BF104759.D

Acq: 24 Apr 2018 16:34

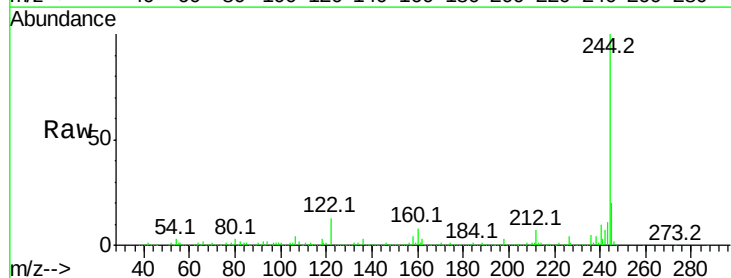
Tgt Ion:244 Resp: 1034999

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

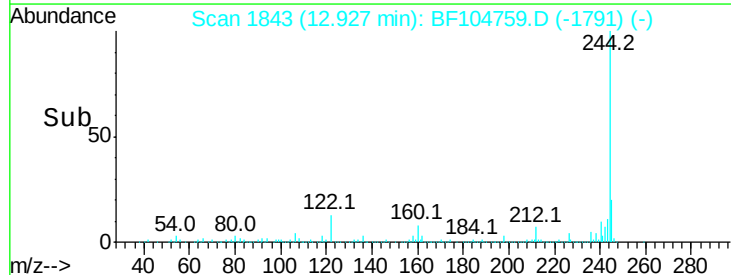
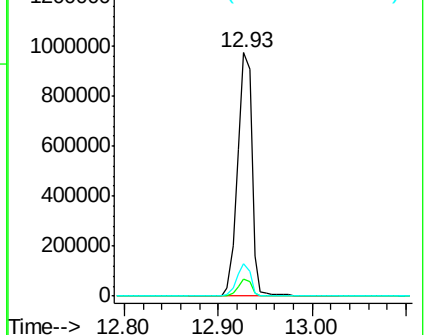
122 13.1 11.0 16.4

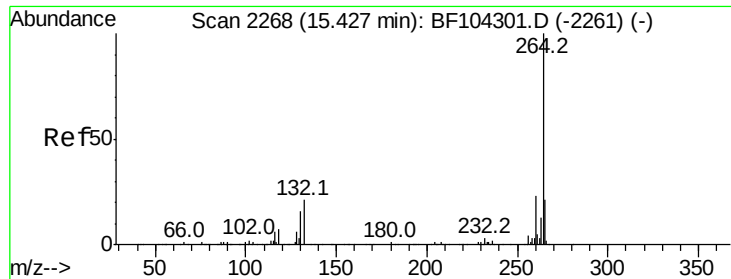


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



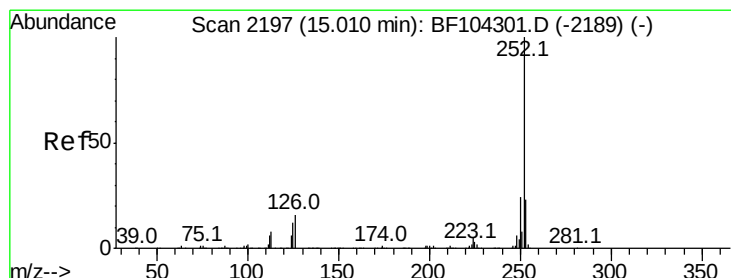
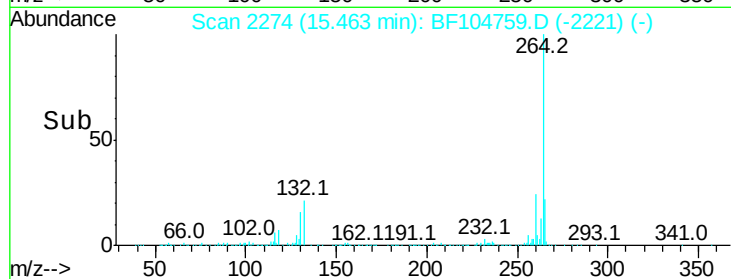
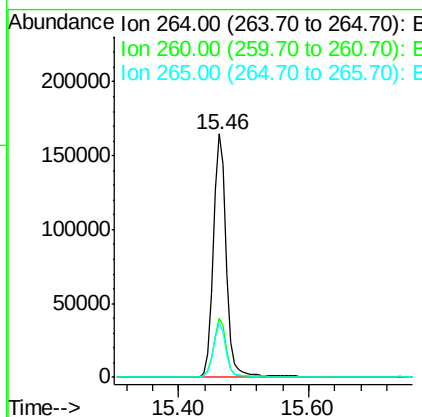
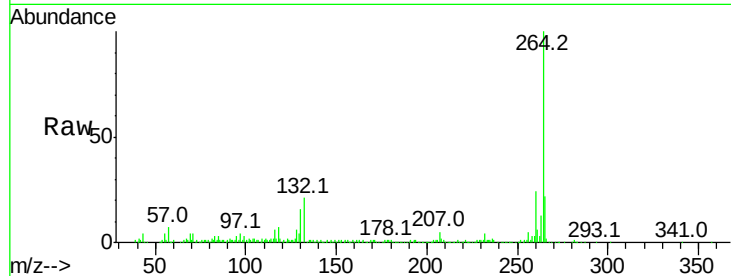


#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.46 min Scan# 2274  
Delta R.T. 0.01 min  
Lab File: BF104759.D  
Acq: 24 Apr 2018 16:34

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:264 Resp: 227850  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.2  | 19.2  | 28.8  |
| 265 | 22.1  | 17.5  | 26.3  |



#87  
Benzo(b)fluoranthene  
Concen: 2.286 ng  
RT: 15.03 min Scan# 2201  
Delta R.T. 0.01 min  
Lab File: BF104759.D  
Acq: 24 Apr 2018 16:34

Tgt Ion:252 Resp: 32899  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 24.5  | 17.0  | 25.6  |
| 125 | 19.8  | 9.0   | 13.6  |

