

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040418\  
 Data File : BF104242.D  
 Acq On : 4 Apr 2018 22:46  
 Operator : JU/SJ  
 Sample : J2170-02  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Apr 05 01:02:22 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 04 18:06:58 2018  
 Response via : Initial Calibration

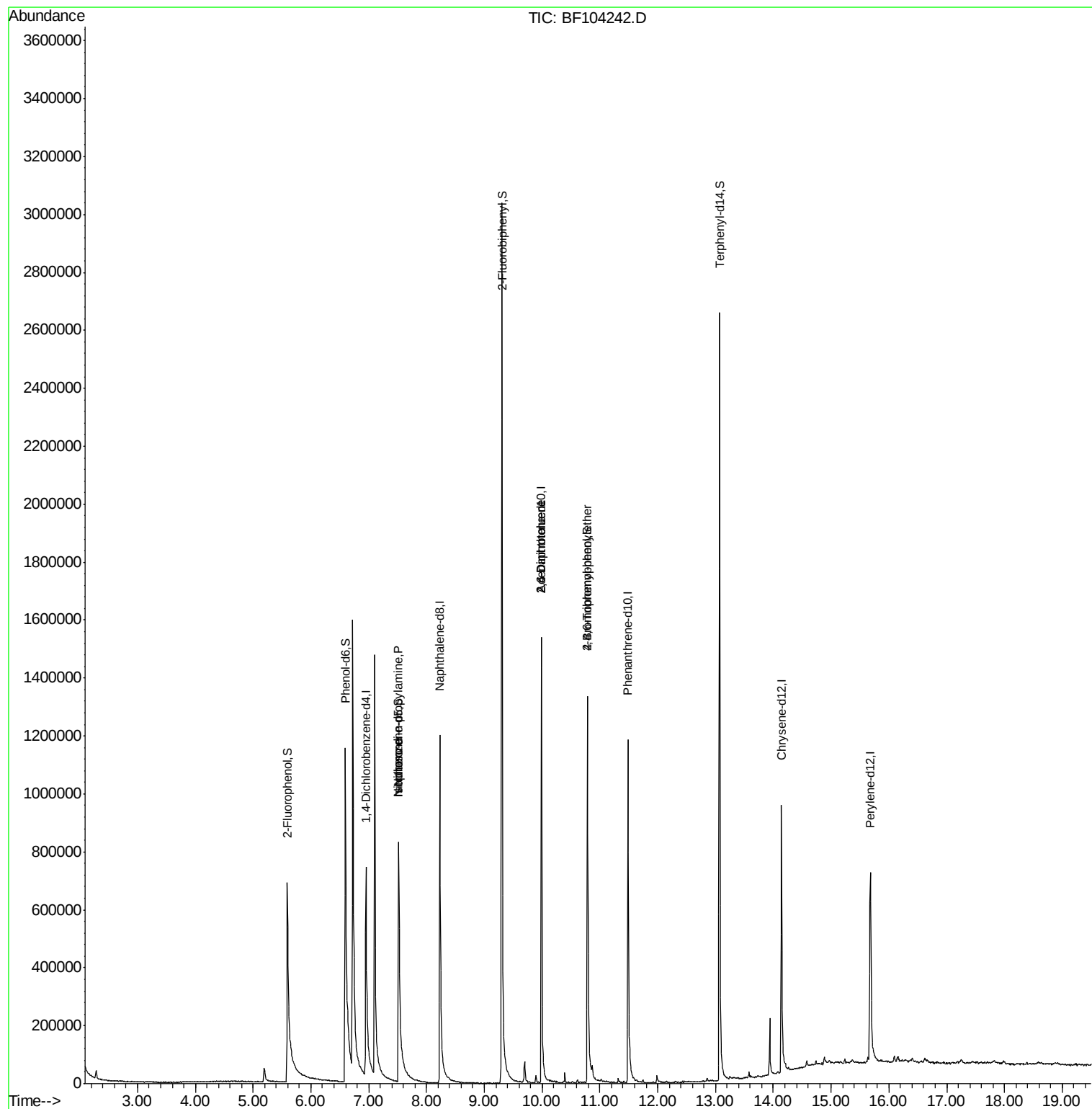
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.95  | 152  | 236952   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.23  | 136  | 976958   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.99  | 164  | 414803   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.49 | 188  | 640709   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 14.14 | 240  | 440189   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.68 | 264  | 433586   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.59  | 112  | 604984   | 40.72  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.59  | 99   | 1030483  | 56.37  | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.52  | 82   | 658307   | 41.21  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.79 | 330  | 253530   | 54.89  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.30  | 172  | 1316364  | 50.04  | ng    | 0.00     |
| 78) Terphenyl-d14              | 13.07 | 244  | 1118072  | 58.65  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.52  | 70   | 75005    | 6.914  | ng    | # 74     |
| 25) Isophorone                 | 7.52  | 82   | 663042   | 22.522 | ng    | # 64     |
| 50) 2,6-Dinitrotoluene         | 9.99  | 165  | 49937    | 7.087  | ng    | # 26     |
| 56) 2,4-Dinitrotoluene         | 9.99  | 165  | 50360    | 5.601  | ng    | # 23     |
| 66) 4-Bromophenyl-phenylether  | 10.79 | 248  | 14862    | 2.168  | ng    | # 1      |

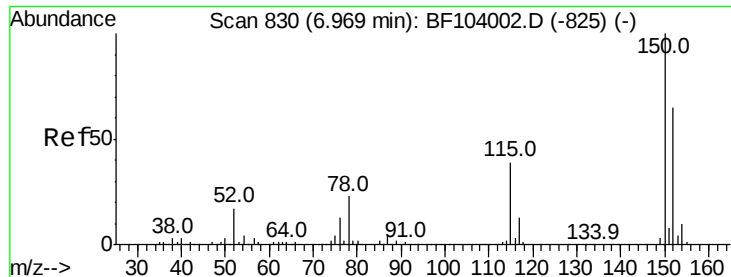
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040418\  
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Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Apr 05 01:02:22 2018  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Apr 04 18:06:58 2018  
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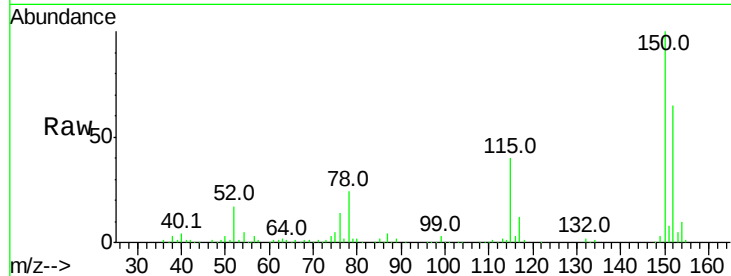


#1

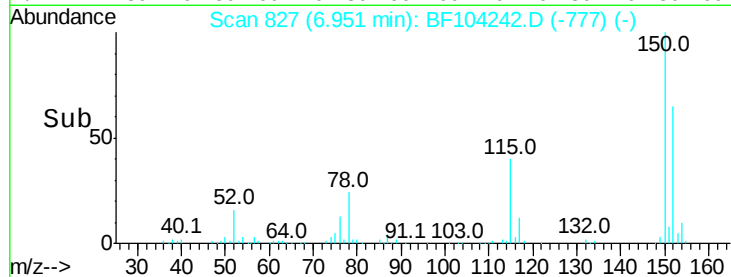
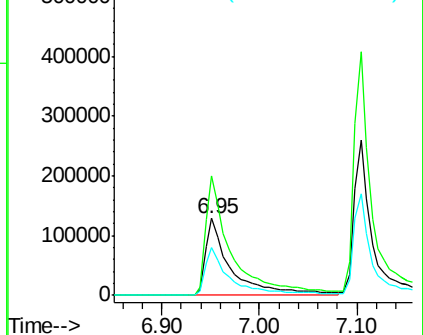
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.95 min Scan# 827  
Delta R.T. -0.01 min  
Lab File: BF104242.D  
Acq: 4 Apr 2018 22:46

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 236952  
Ion Ratio Lower Upper  
152 100  
150 154.6 124.6 186.8  
115 61.6 50.1 75.1



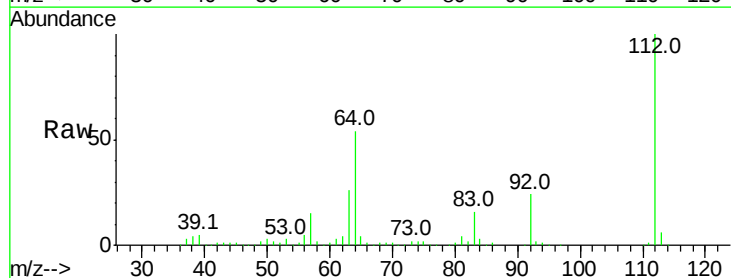
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



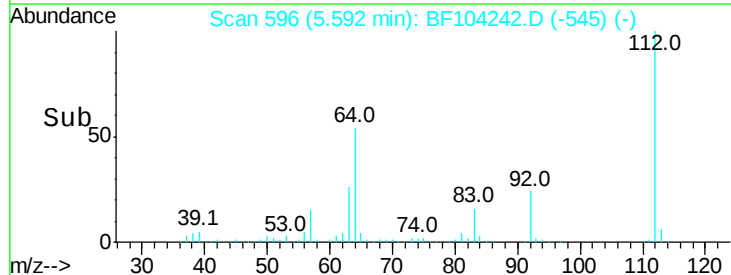
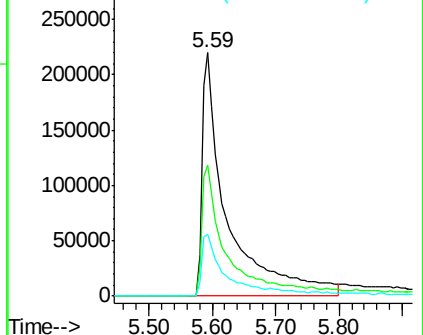
#5

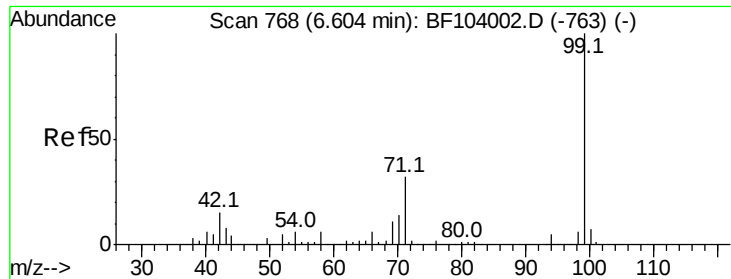
2-Fluorophenol  
Concen: 40.717 ng  
RT: 5.59 min Scan# 596  
Delta R.T. -0.00 min  
Lab File: BF104242.D  
Acq: 4 Apr 2018 22:46

Tgt Ion:112 Resp: 604984  
Ion Ratio Lower Upper  
112 100  
64 53.6 47.9 71.9  
63 25.6 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: 56.372 ng

RT: 6.59 min Scan# 766

Delta R.T. -0.01 min

Lab File: BF104242.D

Acq: 4 Apr 2018 22:46

Instrument :

BNA\_F

ClientSampled :

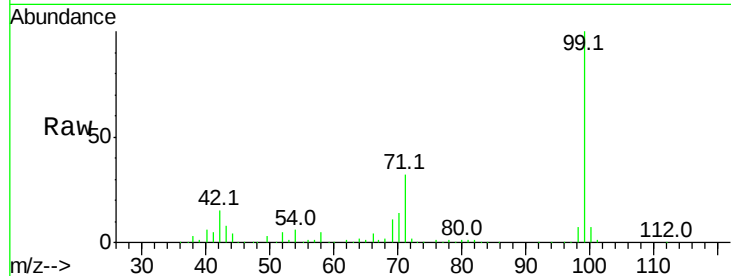
Tot Ion: 99 Resp: 1030483

Ion Ratio Lower Upper

99 100

42 15.1 14.5 21.7

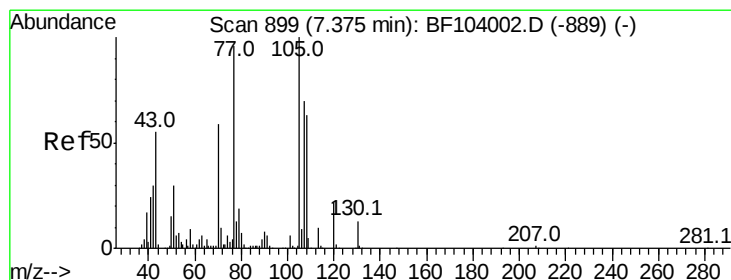
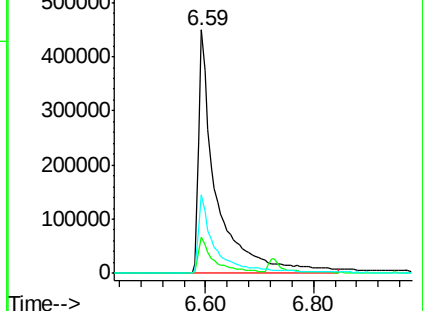
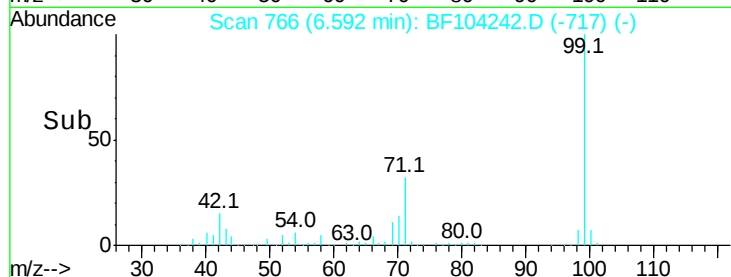
71 32.1 25.4 38.0



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: 6.914 ng

RT: 7.52 min Scan# 923

Delta R.T. 0.16 min

Lab File: BF104242.D

Acq: 4 Apr 2018 22:46

Tgt Ion: 70 Resp: 75005

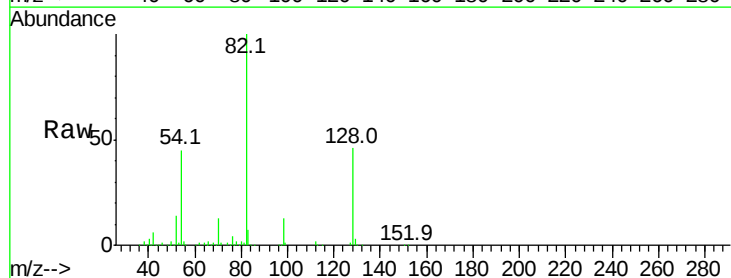
Ion Ratio Lower Upper

70 100

42 43.9 47.5 71.3#

101 0.0 7.4 11.2#

130 2.1 16.6 25.0#

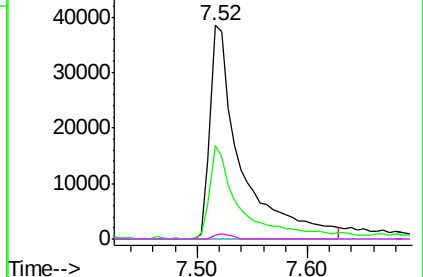
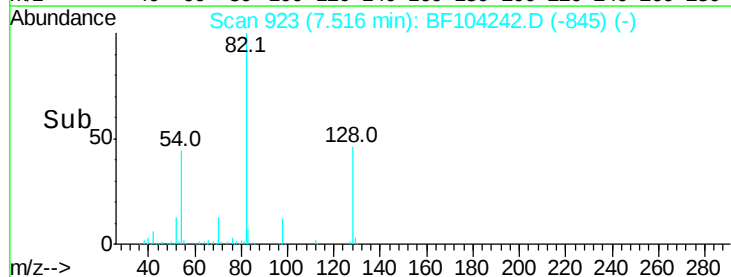


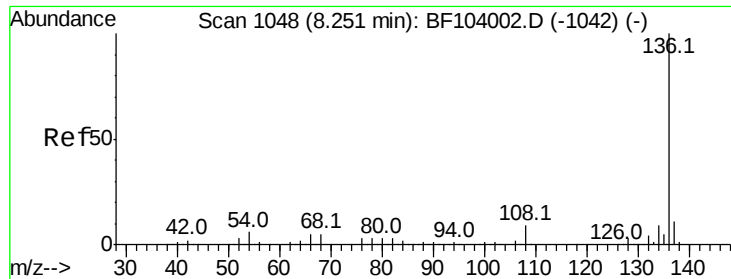
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

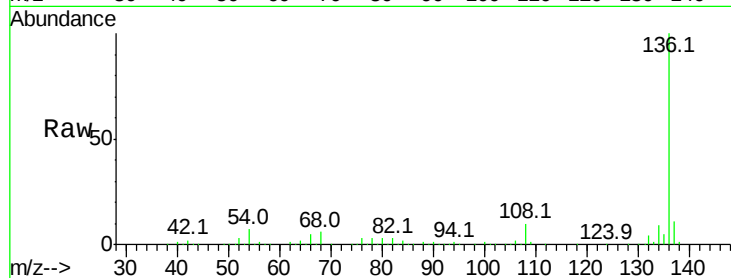




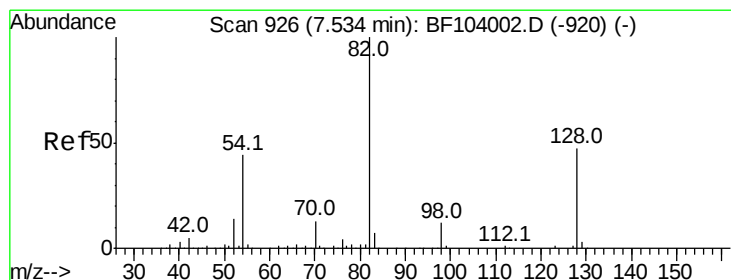
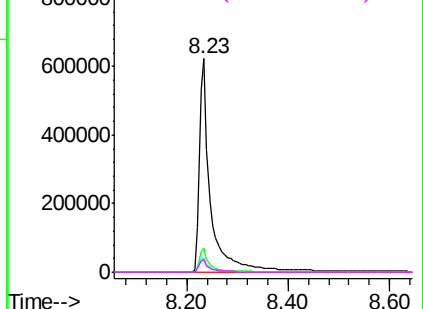
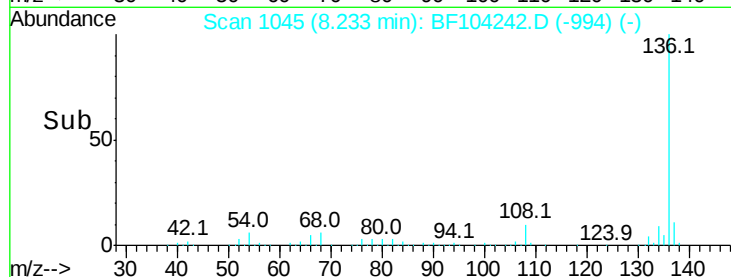
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.23 min Scan# 1045  
Delta R.T. -0.00 min  
Lab File: BF104242.D  
Acq: 4 Apr 2018 22:46

Instrument :  
BNA\_F  
ClientSampled :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 976958      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 11.1  | 8.9 13.3    |
| 54          | 6.6   | 6.6 9.8     |
| 68          | 5.8   | 5.0 7.4     |

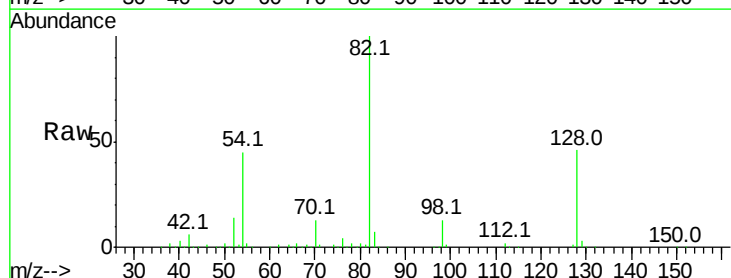


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

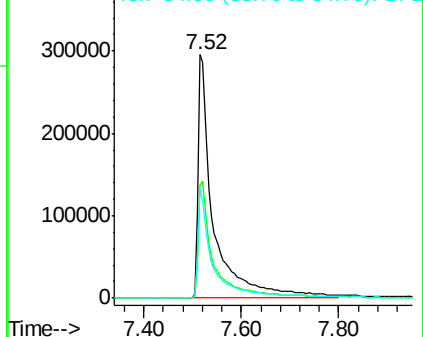
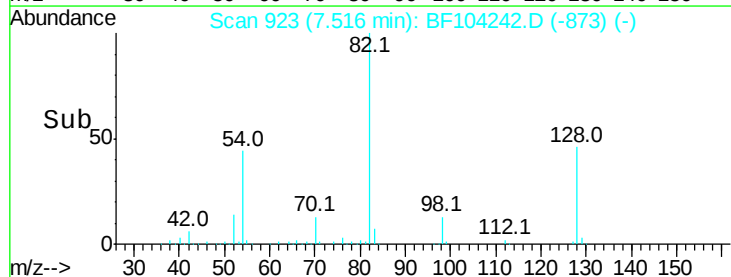


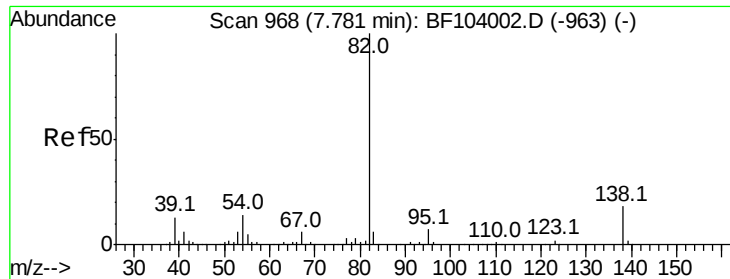
#23  
Nitrobenzene-d5  
Concen: 41.209 ng  
RT: 7.52 min Scan# 923  
Delta R.T. -0.01 min  
Lab File: BF104242.D  
Acq: 4 Apr 2018 22:46

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 658307      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 46.2  | 36.1 54.1   |
| 54          | 44.7  | 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

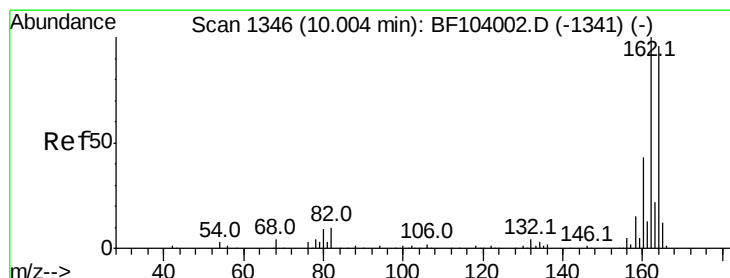
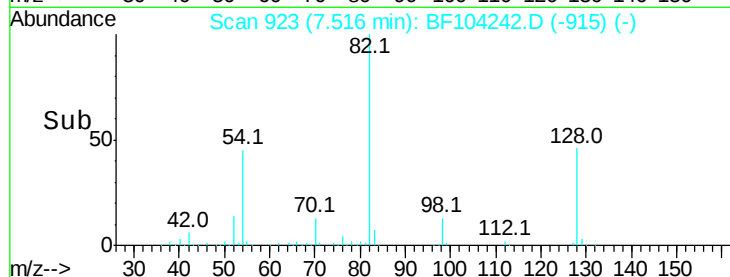
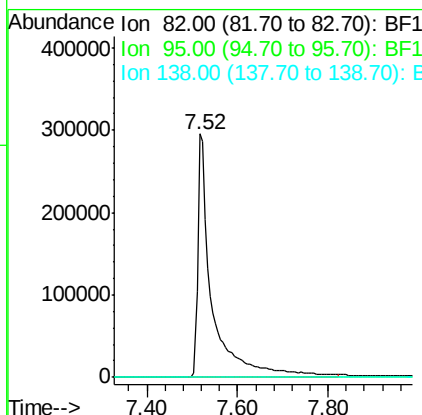
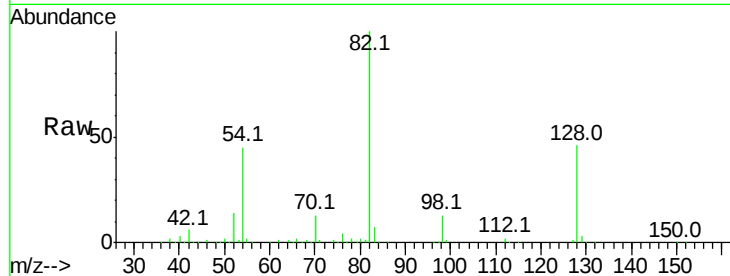




#25  
Isophorone  
Concen: 22.522 ng  
RT: 7.52 min Scan# 923  
Delta R.T. -0.25 min  
Lab File: BF104242.D  
Acq: 4 Apr 2018 22:46

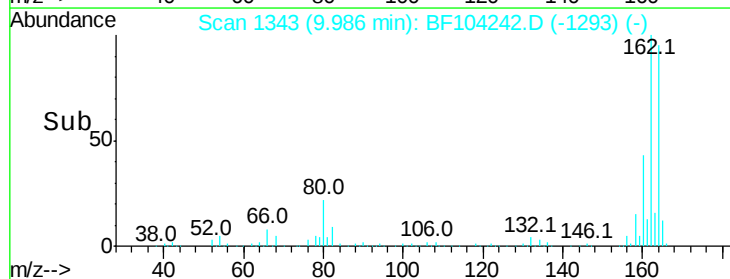
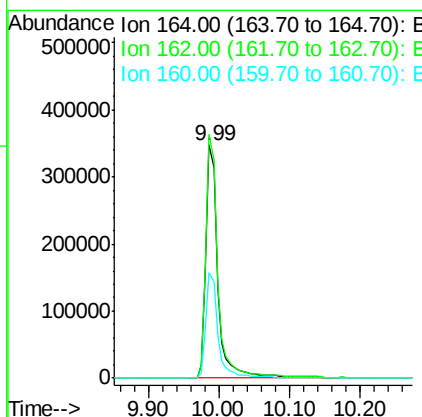
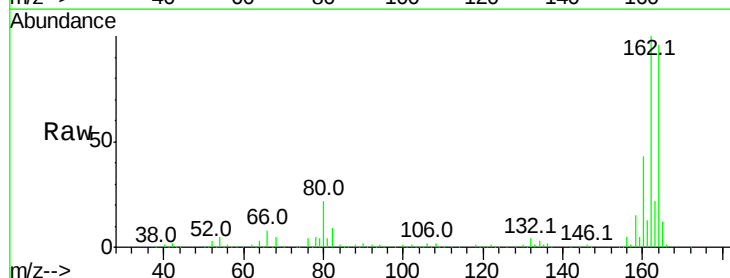
Instrument :  
BNA\_F  
ClientSampleId :

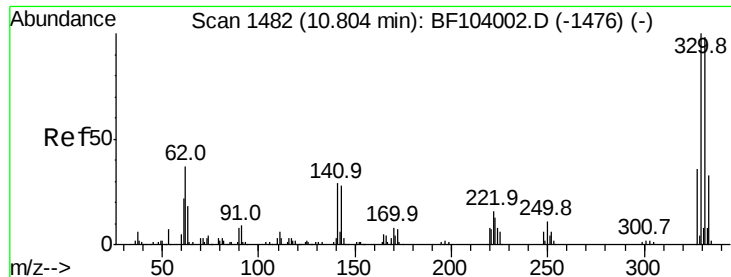
Tot Ion: 82 Resp: 663042  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.2 7.8#  
138 0.0 14.9 22.3#



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.99 min Scan# 1343  
Delta R.T. -0.01 min  
Lab File: BF104242.D  
Acq: 4 Apr 2018 22:46

Tgt Ion:164 Resp: 414803  
Ion Ratio Lower Upper  
164 100  
162 104.6 86.1 129.1  
160 45.3 38.3 57.5

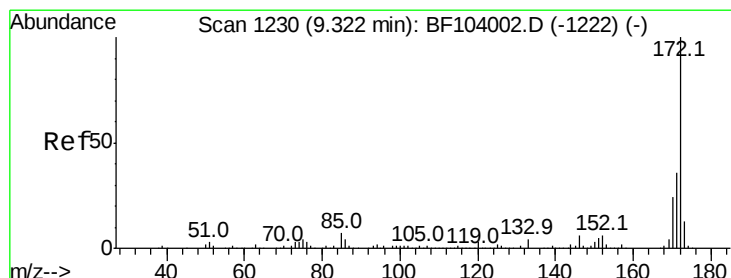
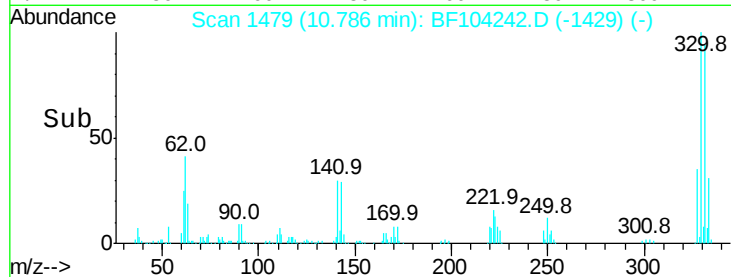
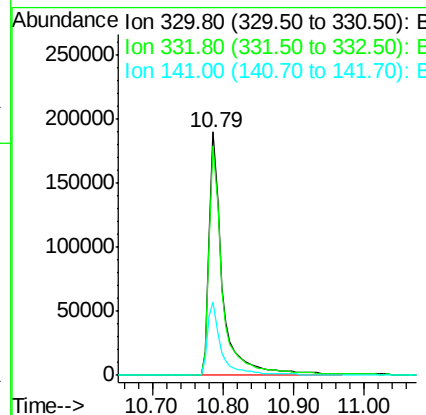
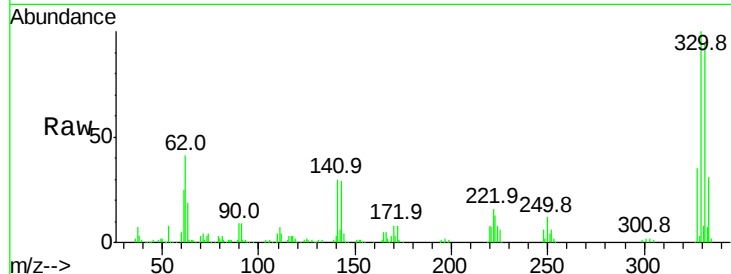




#41  
 2,4,6-Tribromophenol  
 Concen: 54.890 ng  
 RT: 10.79 min Scan# 1479  
 Delta R.T. -0.01 min  
 Lab File: BF104242.D  
 Acq: 4 Apr 2018 22:46

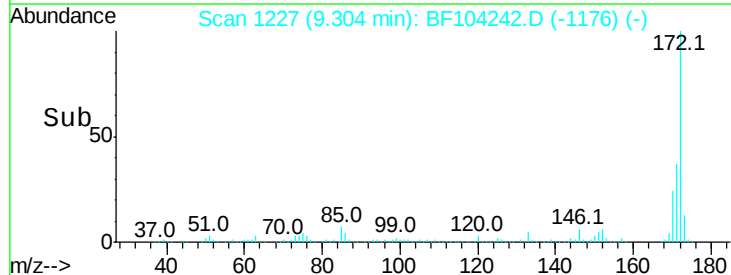
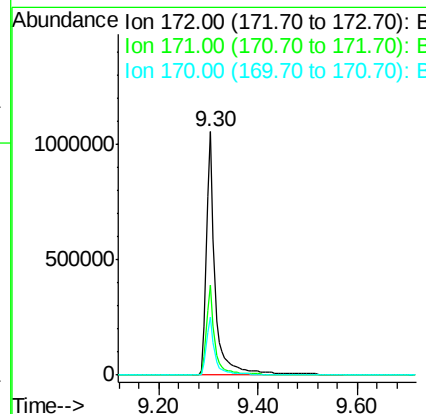
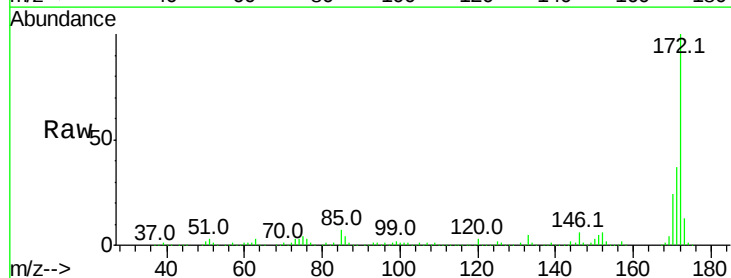
Instrument :  
 BNA\_F  
 ClientSampleId :

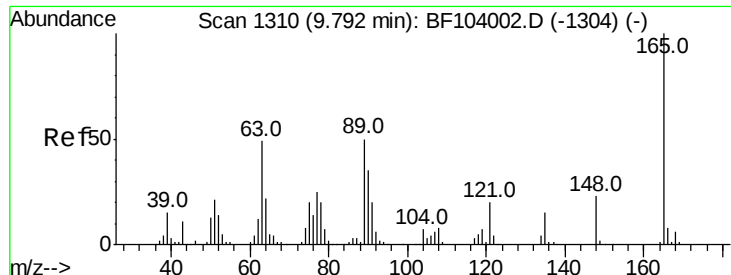
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.4  | 77.0  | 115.6 |
| 141     | 31.8  | 29.9  | 44.9  |



#44  
 2-Fluorobiphenyl  
 Concen: 50.043 ng  
 RT: 9.30 min Scan# 1227  
 Delta R.T. -0.00 min  
 Lab File: BF104242.D  
 Acq: 4 Apr 2018 22:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.0  | 29.7  | 44.5  |
| 170     | 24.0  | 19.6  | 29.4  |

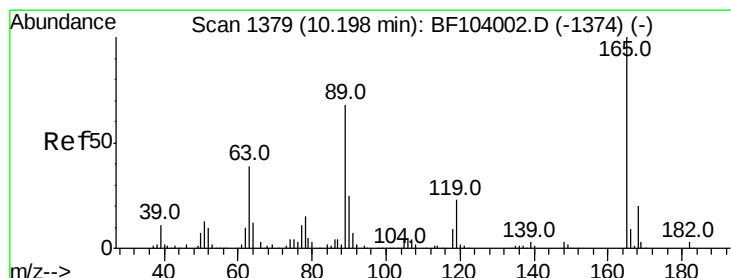
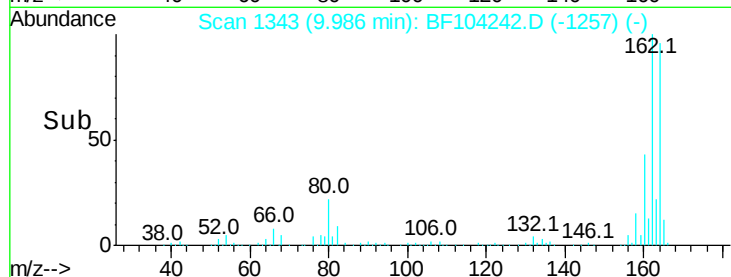
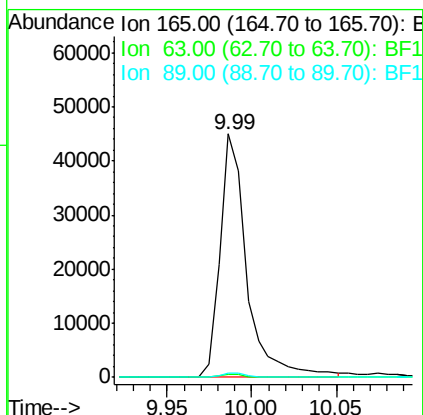
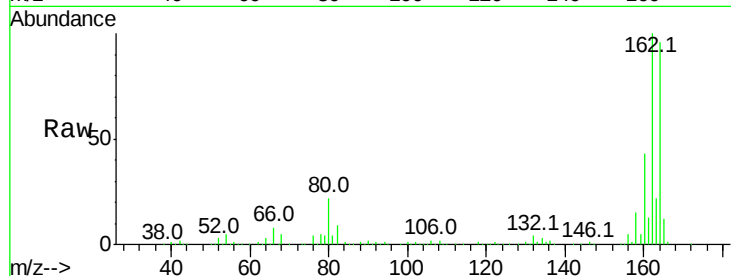




#50  
 2,6-Dinitrotoluene  
 Concen: 7.087 ng  
 RT: 9.99 min Scan# 1343  
 Delta R.T. 0.21 min  
 Lab File: BF104242.D  
 Acq: 4 Apr 2018 22:46

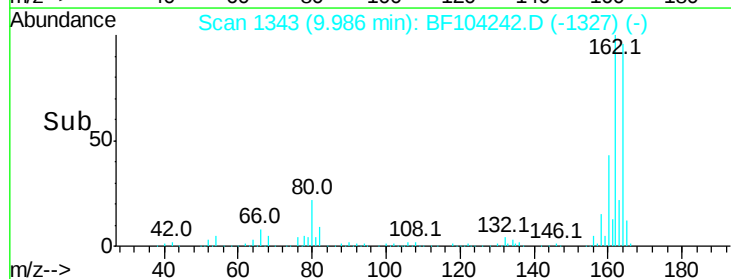
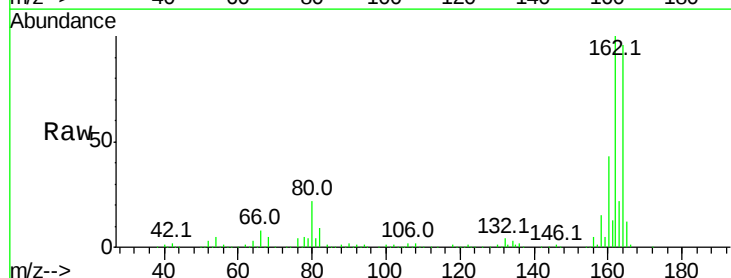
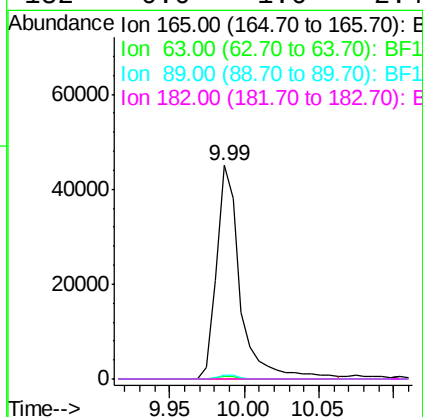
Instrument :  
 BNA\_F  
 ClientSampleId :

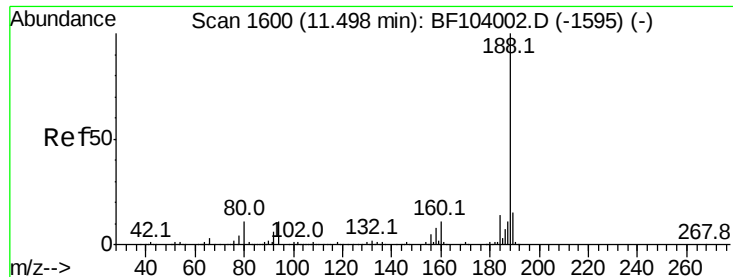
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.3   | 44.7  | 67.1# |
| 89      | 1.7   | 44.0  | 66.0# |



#56  
 2,4-Dinitrotoluene  
 Concen: 5.601 ng  
 RT: 9.99 min Scan# 1343  
 Delta R.T. -0.21 min  
 Lab File: BF104242.D  
 Acq: 4 Apr 2018 22:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.3   | 36.4  | 54.6# |
| 89      | 1.7   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |

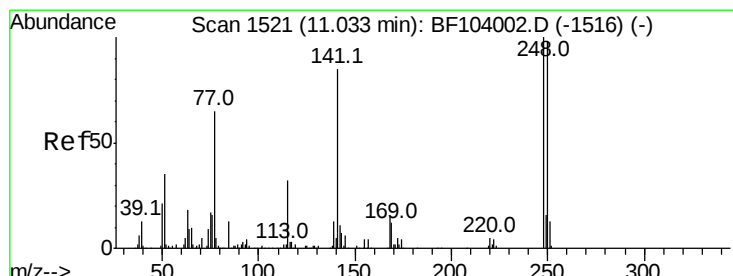
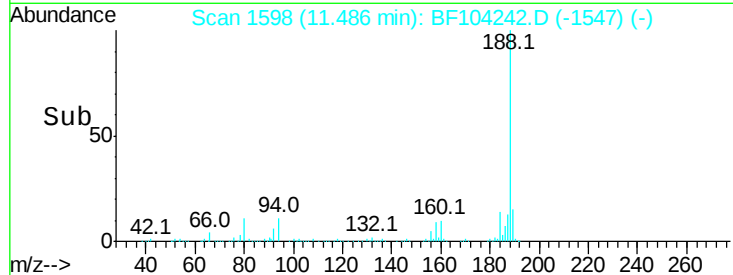
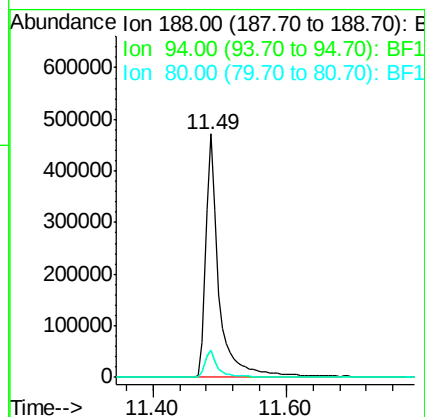
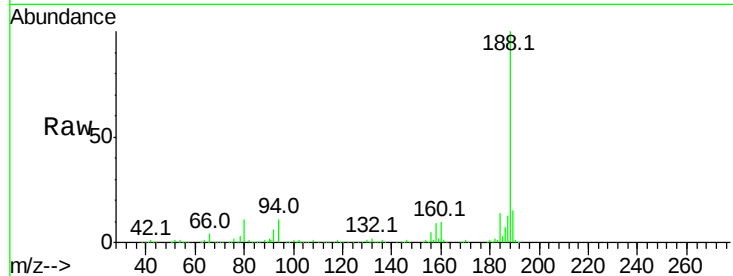




#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.49 min Scan# 1598  
 Delta R.T. -0.00 min  
 Lab File: BF104242.D  
 Acq: 4 Apr 2018 22:46

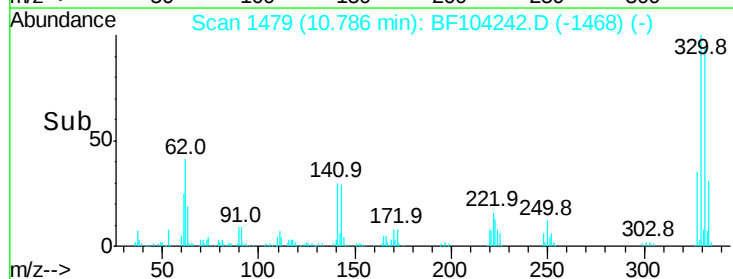
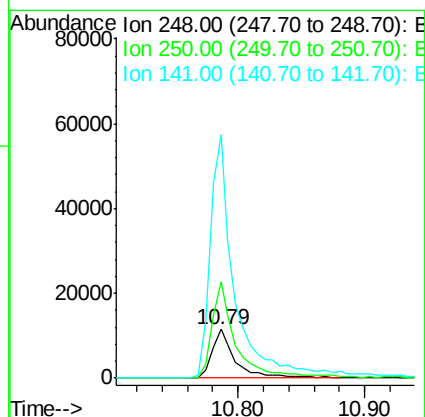
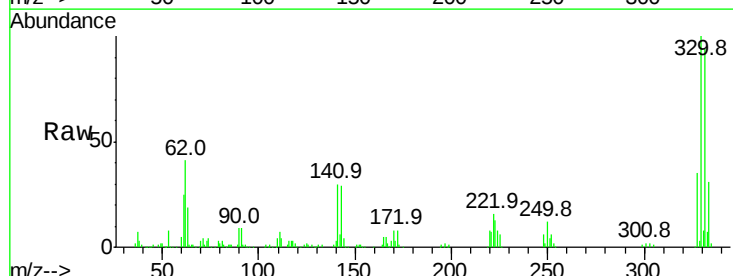
Instrument :  
 BNA\_F  
 ClientSampleId :

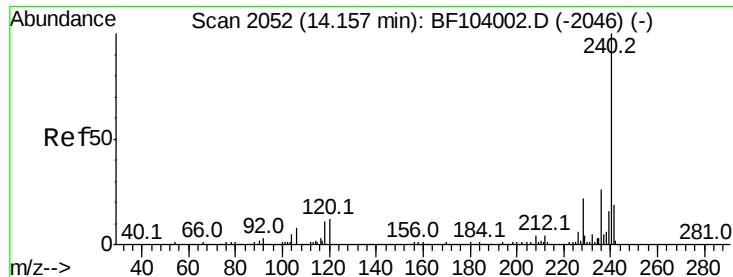
Tot Ion:188 Resp: 640709  
 Ion Ratio Lower Upper  
 188 100  
 94 11.1 8.5 12.7  
 80 11.2 9.2 13.8



#66  
 4-Bromophenyl-phenylether  
 Concen: 2.168 ng  
 RT: 10.79 min Scan# 1479  
 Delta R.T. -0.24 min  
 Lab File: BF104242.D  
 Acq: 4 Apr 2018 22:46

Tgt Ion:248 Resp: 14862  
 Ion Ratio Lower Upper  
 248 100  
 250 198.6 76.9 115.3#  
 141 498.7 74.4 111.6#





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.14 min Scan# 2049

Delta R.T. -0.01 min

Lab File: BF104242.D

Acq: 4 Apr 2018 22:46

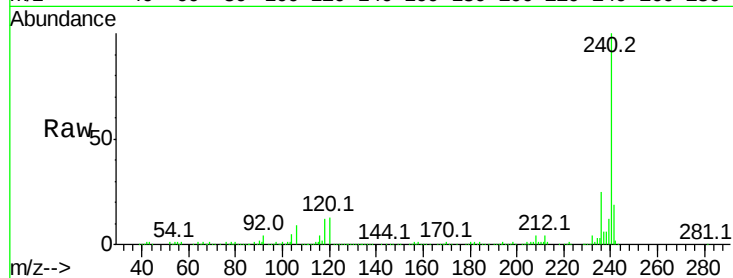
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:240 Resp: 440189

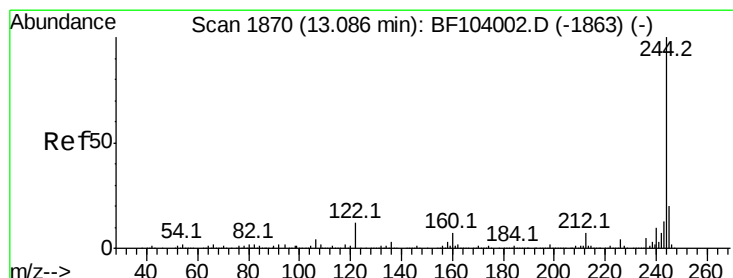
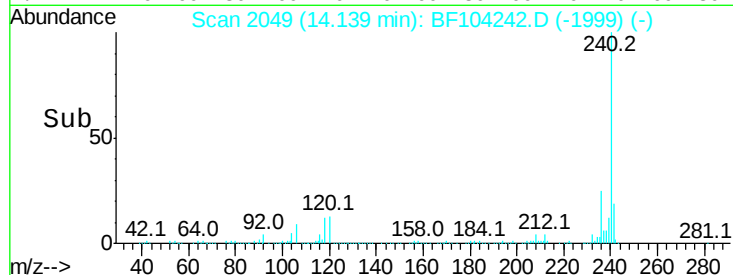
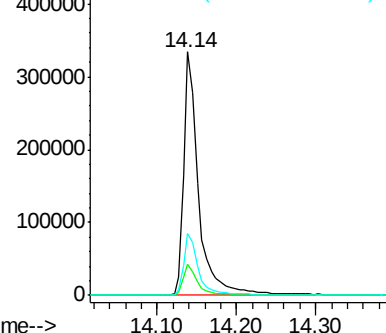
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 240 | 100   |       |       |
| 120 | 12.6  | 9.5   | 14.3  |
| 236 | 25.4  | 20.7  | 31.1  |



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: 58.647 ng

RT: 13.07 min Scan# 1867

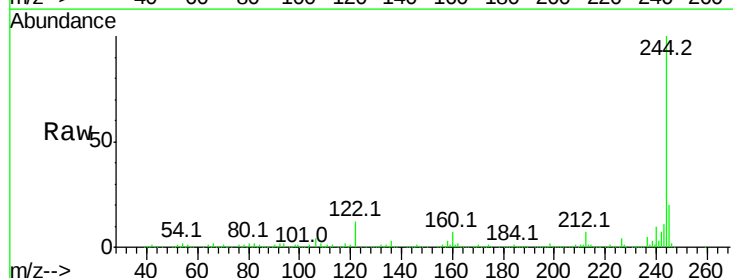
Delta R.T. -0.00 min

Lab File: BF104242.D

Acq: 4 Apr 2018 22:46

Tgt Ion:244 Resp: 1118072

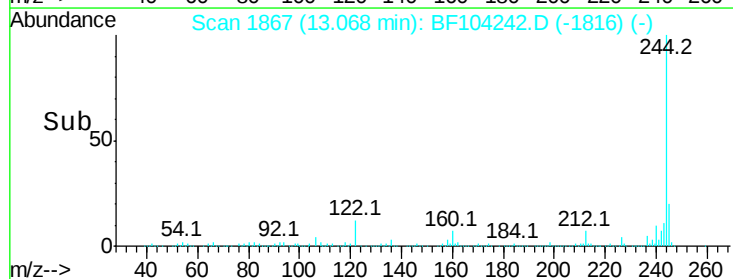
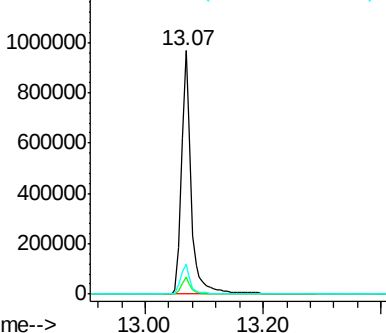
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 6.8   | 5.4   | 8.0   |
| 122 | 12.3  | 11.0  | 16.4  |

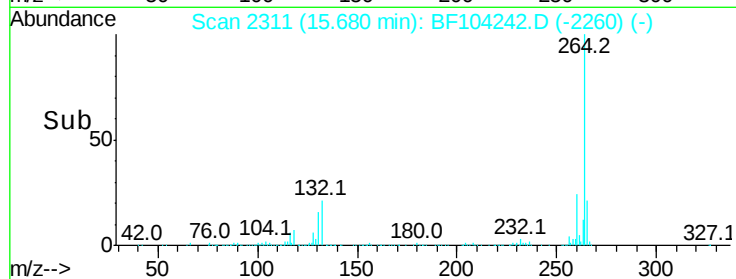
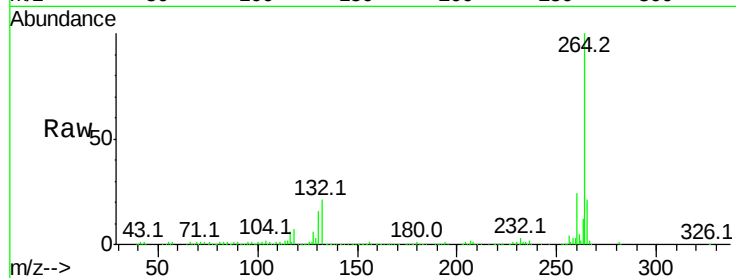
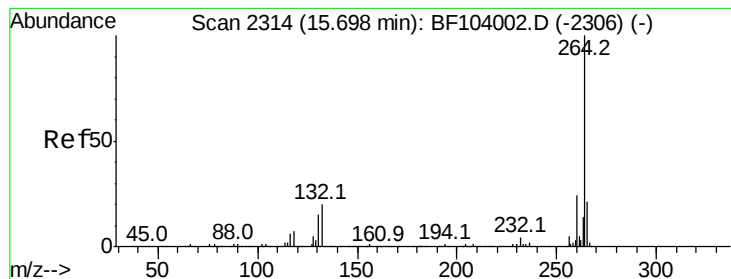


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.68 min Scan# 2311

Delta R.T. -0.00 min

Lab File: BF104242.D

Acq: 4 Apr 2018 22:46

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:264 Resp: 433586

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.7  | 19.2  | 28.8  |
| 265 | 21.2  | 17.5  | 26.3  |

