

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111318\  
 Data File : BF110753.D  
 Acq On : 14 Nov 2018 7:24  
 Operator : JU/SJ  
 Sample : J5916-14  
 Misc :  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Nov 14 09:45:28 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 13 12:43:10 2018  
 Response via : Initial Calibration

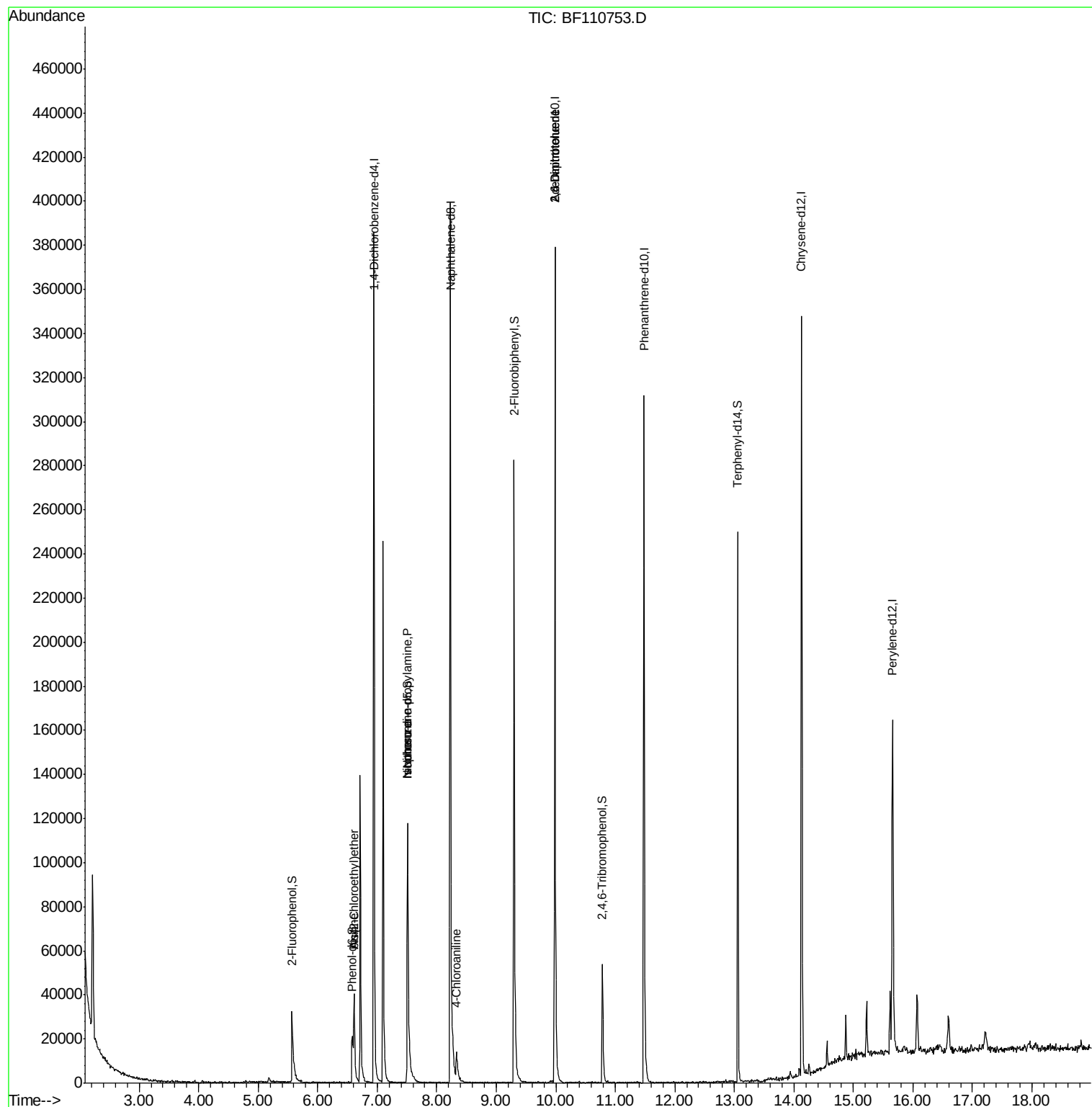
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.95  | 152  | 65147    | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.23  | 136  | 249667   | 20.00     | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.99  | 164  | 93113    | 20.00     | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.48 | 188  | 156318   | 20.00     | ng    | 0.00     |
| 76) Chrysene-d12               | 14.13 | 240  | 138941   | 20.00     | ng    | -0.01    |
| 87) Perylene-d12               | 15.66 | 264  | 89225    | 20.00     | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.57  | 112  | 23262    | 5.80      | ng    | 0.00     |
| 7) Phenol-d6                   | 6.58  | 99   | 18863    | 3.68      | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.51  | 82   | 65557    | 15.12     | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.79 | 330  | 10825    | 11.54     | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.30  | 172  | 121306   | 18.61     | ng    | 0.00     |
| 79) Terphenyl-d14              | 13.06 | 244  | 91815    | 12.38     | ng    | -0.01    |
| Target Compounds               |       |      |          |           |       |          |
| 6) Aniline                     | 6.61  | 93   | 16556    | 2.475     | ng    | # 56     |
| 9) Benzaldehyde                | 6.72  | 77   | 887      | Below Cal |       | 86       |
| 11) bis(2-Chloroethyl)ether    | 6.61  | 93   | 16556    | 3.715     | ng    | # 27     |
| 19) n-Nitroso-di-n-propylamine | 7.51  | 70   | 7810     | 2.386     | ng    | # 86     |
| 25) Isophorone                 | 7.51  | 82   | 65557    | 9.226     | ng    | # 67     |
| 33) 4-Chloroaniline            | 8.34  | 127  | 11436    | 2.154     | ng    | # 90     |
| 51) 2,6-Dinitrotoluene         | 9.99  | 165  | 11596    | 7.587     | ng    | # 21     |
| 57) 2,4-Dinitrotoluene         | 9.99  | 165  | 11596    | 5.835     | ng    | # 17     |

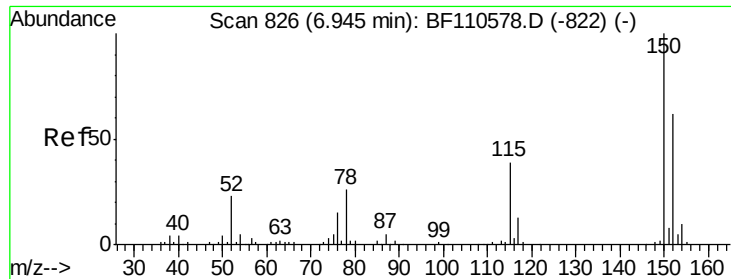
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF111318\  
Data File : BF110753.D  
Acq On : 14 Nov 2018 7:24  
Operator : JU/SJ  
Sample : J5916-14  
Misc :  
ALS Vial : 34 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Nov 14 09:45:28 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110818.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 13 12:43:10 2018  
Response via : Initial Calibration

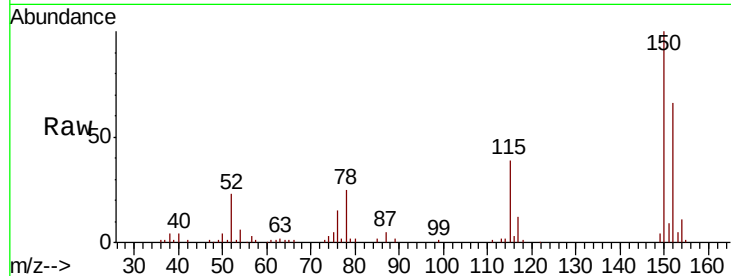




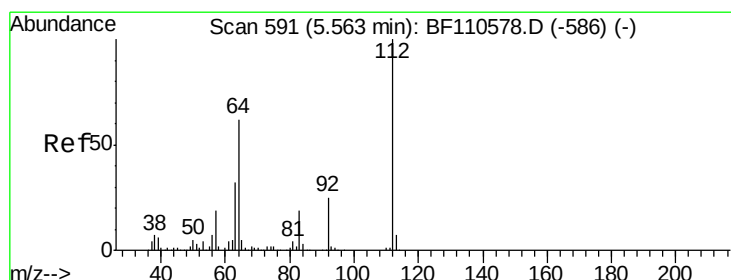
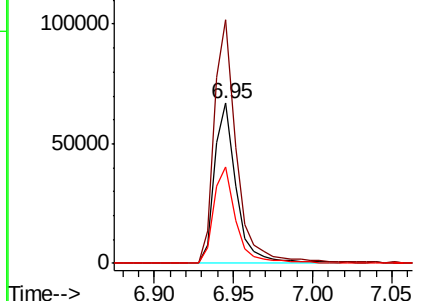
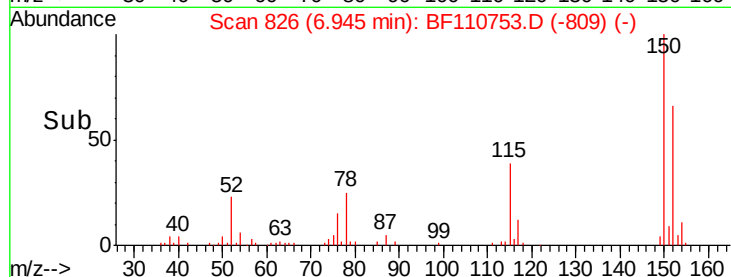
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.95 min Scan# 826  
 Delta R.T. 0.00 min  
 Lab File: BF110753.D  
 Acq: 14 Nov 2018 7:24

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:152 Resp: 65147  
 Ion Ratio Lower Upper  
 152 100  
 150 152.2 122.7 184.1  
 115 60.0 49.1 73.7

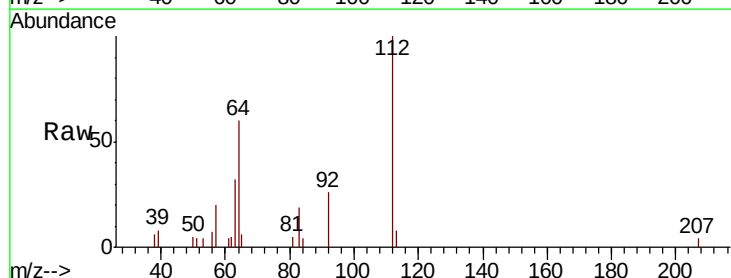


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

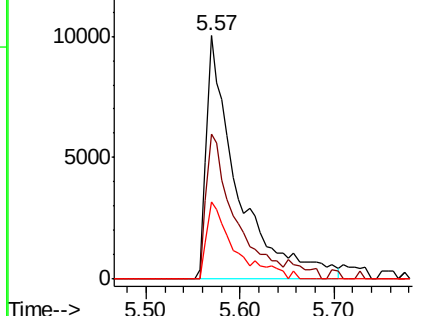
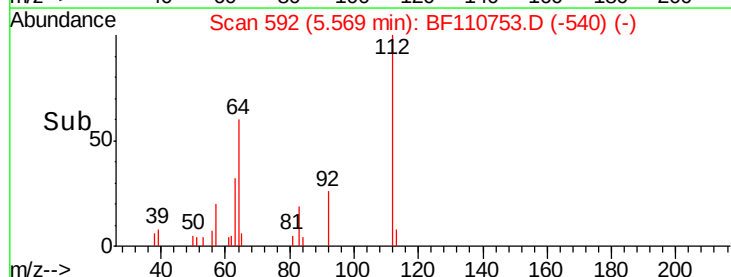


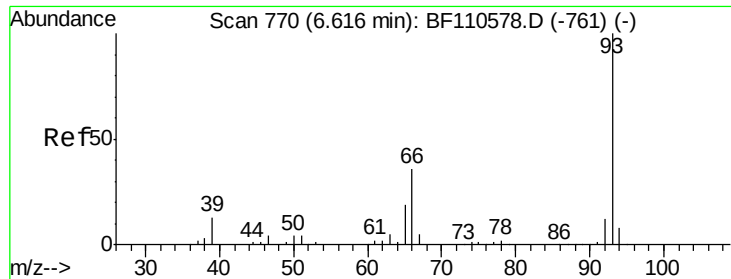
#5  
 2-Fluorophenol  
 Concen: 5.800 ng  
 RT: 5.57 min Scan# 592  
 Delta R.T. 0.01 min  
 Lab File: BF110753.D  
 Acq: 14 Nov 2018 7:24

Tgt Ion:112 Resp: 23262  
 Ion Ratio Lower Upper  
 112 100  
 64 59.7 44.1 66.1  
 63 31.8 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





#6

Aniline

Concen: 2.475 ng

RT: 6.61 min Scan# 769

Delta R.T. -0.01 min

Lab File: BF110753.D

Acq: 14 Nov 2018 7:24

Instrument :

BNA\_F

ClientSampleId :

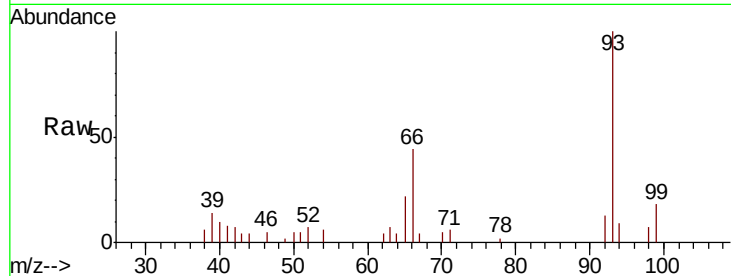
Tot Ion: 93 Resp: 16556

Ion Ratio Lower Upper

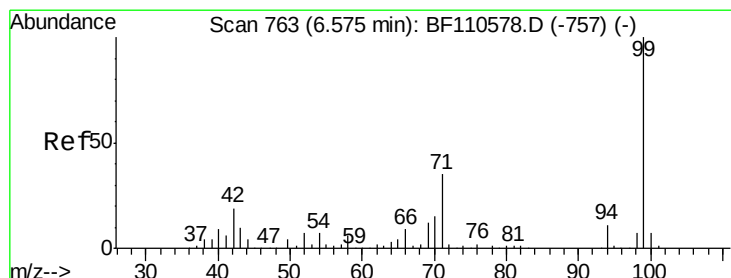
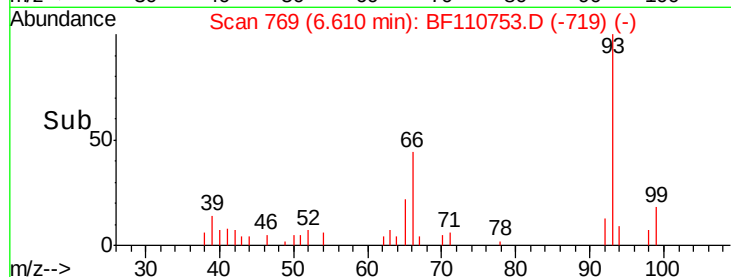
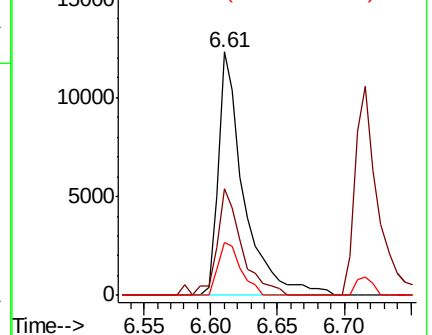
93 100

66 43.7 67.4 101.0#

65 22.0 41.0 61.4#



Abundance Ion 93.00 (92.70 to 93.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1



#7

Phenol-d6

Concen: 3.678 ng

RT: 6.58 min Scan# 764

Delta R.T. 0.01 min

Lab File: BF110753.D

Acq: 14 Nov 2018 7:24

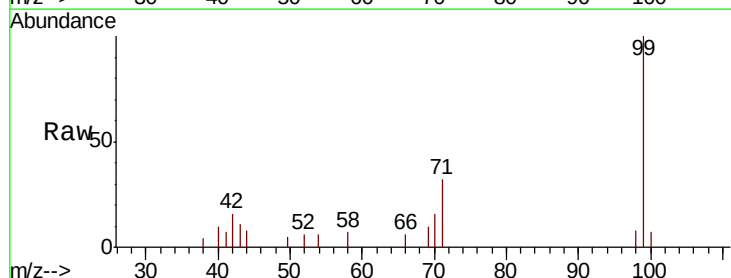
Tgt Ion: 99 Resp: 18863

Ion Ratio Lower Upper

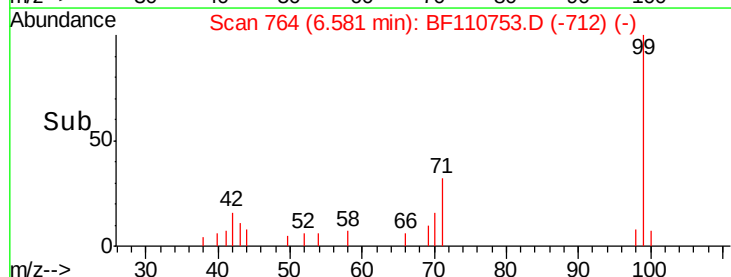
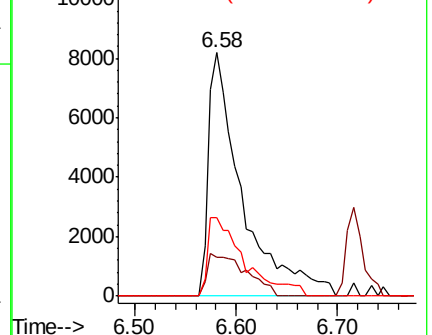
99 100

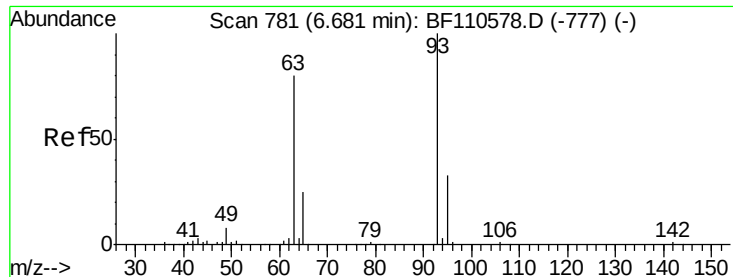
42 16.0 15.8 23.6

71 32.1 28.0 42.0



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

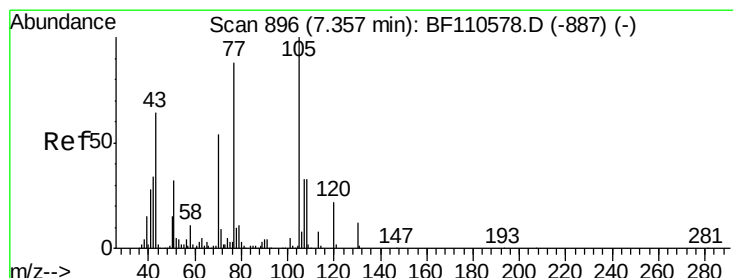
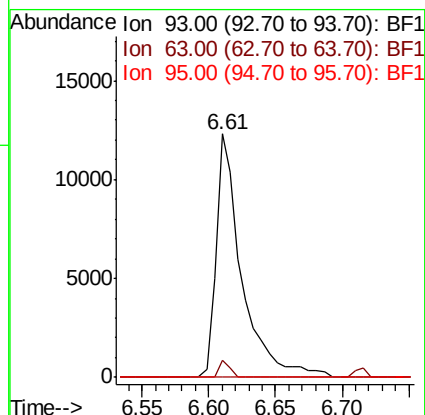
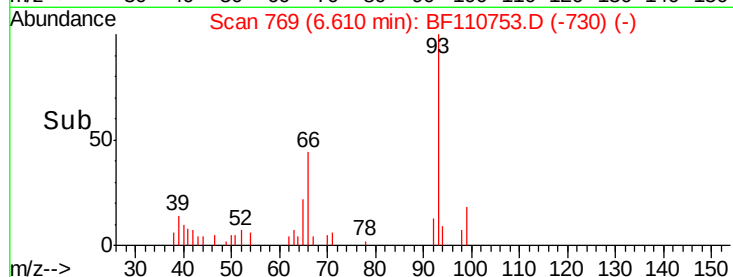
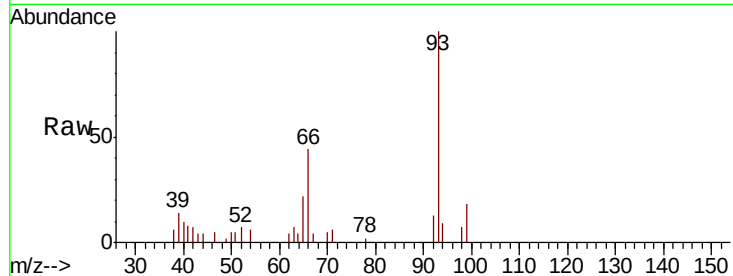




#11  
bis(2-Chloroethyl)ether  
Concen: 3.715 ng  
RT: 6.61 min Scan# 769  
Delta R.T. -0.07 min  
Lab File: BF110753.D  
Acq: 14 Nov 2018 7:24

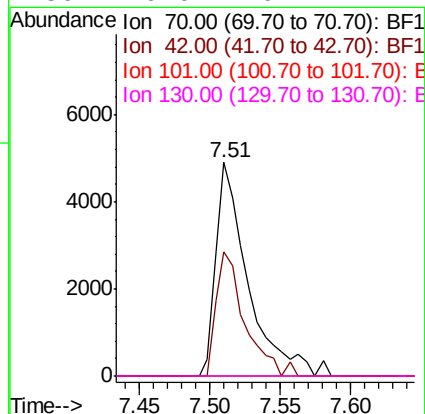
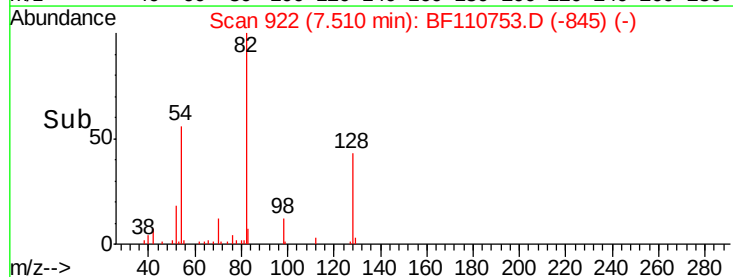
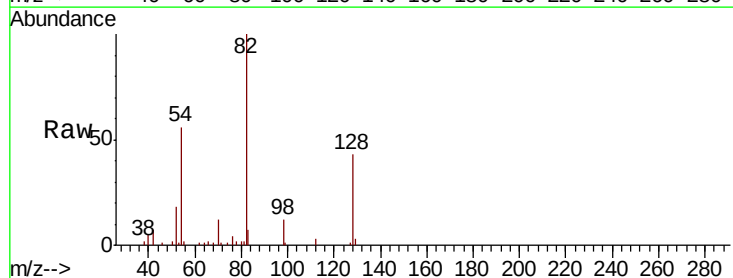
Instrument :  
BNA\_F  
ClientSampleId :

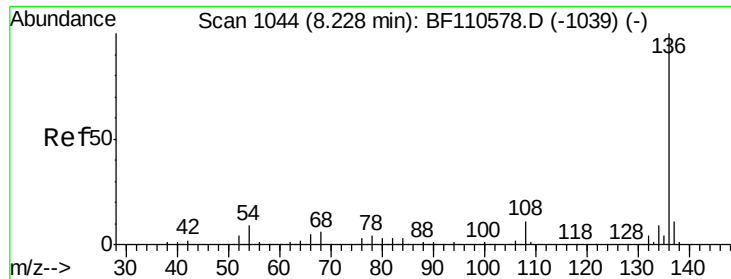
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 6.8   | 53.4  | 93.4# |
| 95      | 0.0   | 12.1  | 52.1# |



#19  
n-Nitroso-di-n-propylamine  
Concen: 2.386 ng  
RT: 7.51 min Scan# 922  
Delta R.T. 0.15 min  
Lab File: BF110753.D  
Acq: 14 Nov 2018 7:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 42      | 58.2  | 47.4  | 71.2  |
| 101     | 0.0   | 7.3   | 10.9# |
| 130     | 0.0   | 16.2  | 24.2# |

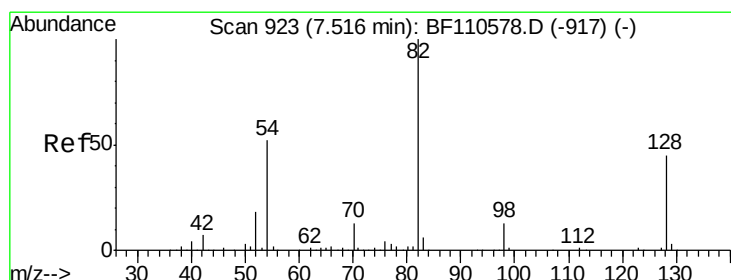
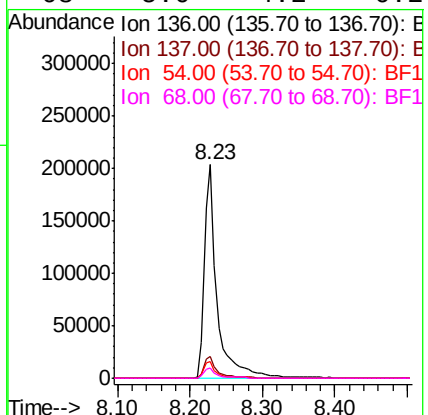
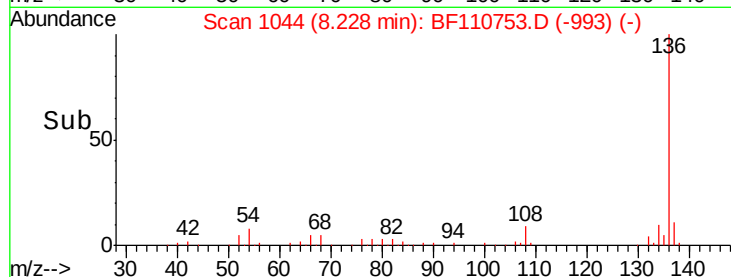
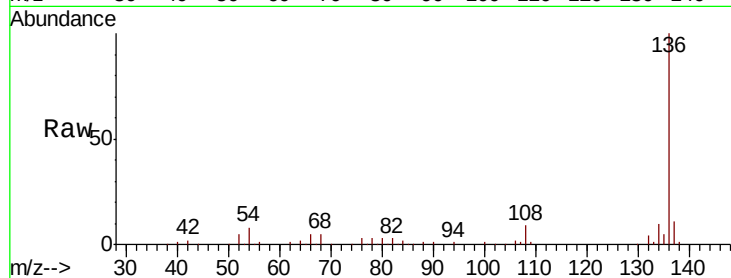




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.23 min Scan# 1044  
Delta R.T. 0.00 min  
Lab File: BF110753.D  
Acq: 14 Nov 2018 7:24

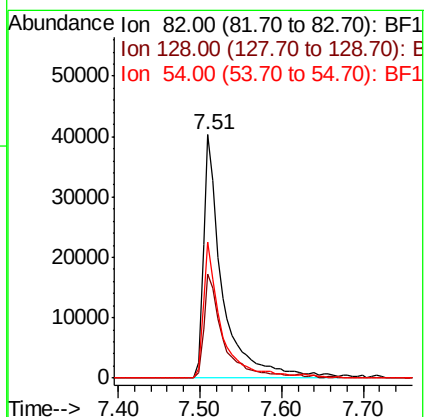
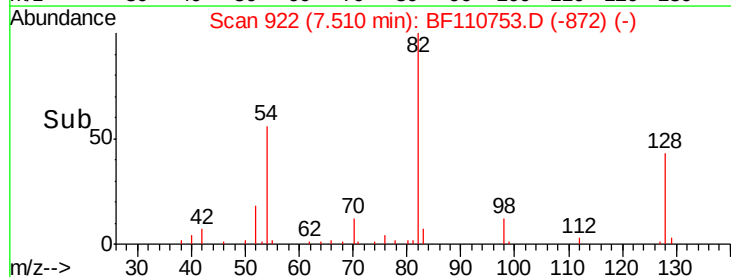
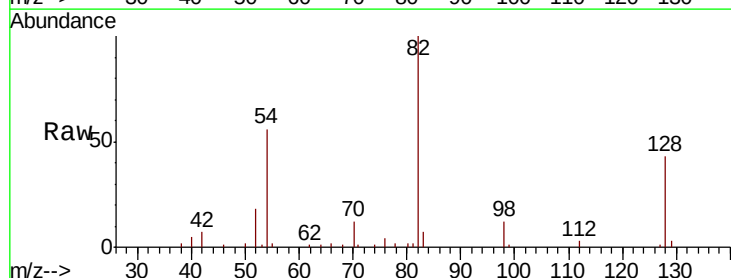
Instrument :  
BNA\_F  
ClientSampleId :

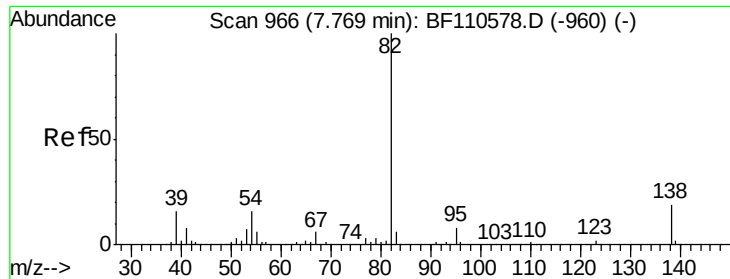
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 249667 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.5  | 8.8   | 13.2   |
| 54       | 7.8   | 5.4   | 8.2    |
| 68       | 5.0   | 4.2   | 6.2    |



#23  
Nitrobenzene-d5  
Concen: 15.122 ng  
RT: 7.51 min Scan# 922  
Delta R.T. -0.01 min  
Lab File: BF110753.D  
Acq: 14 Nov 2018 7:24

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 65557 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 42.7  | 34.2  | 51.2  |
| 54       | 55.8  | 38.6  | 58.0  |





#25

Isophorone

Concen: 9.226 ng

RT: 7.51 min Scan# 922

Delta R.T. -0.26 min

Lab File: BF110753.D

Acq: 14 Nov 2018 7:24

Instrument :

BNA\_F

ClientSampleId :

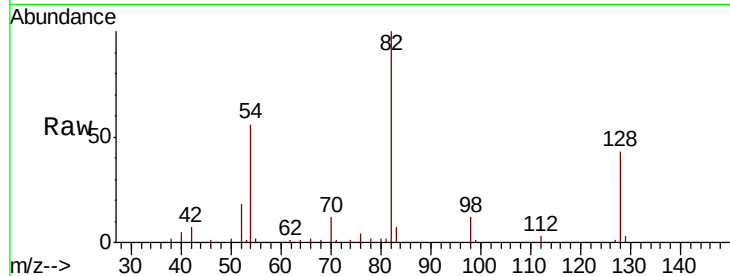
Tot Ion: 82 Resp: 65557

Ion Ratio Lower Upper

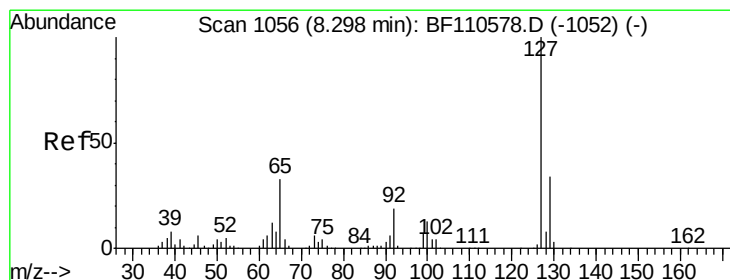
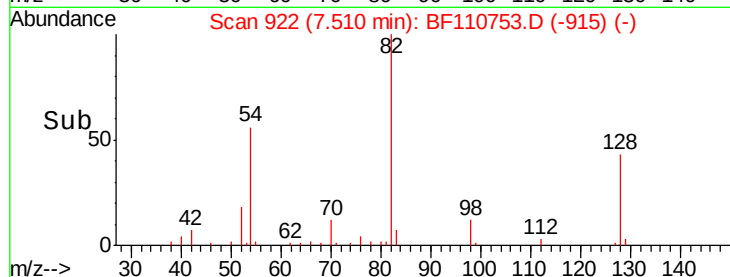
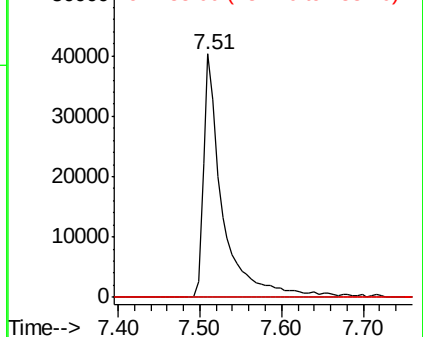
82 100

95 0.0 5.7 8.5#

138 0.0 13.2 19.8#



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



#33

4-Chloroaniline

Concen: 2.154 ng

RT: 8.34 min Scan# 1063

Delta R.T. 0.04 min

Lab File: BF110753.D

Acq: 14 Nov 2018 7:24

Tgt Ion: 127 Resp: 11436

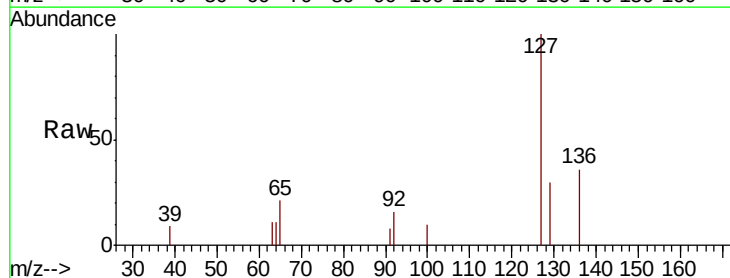
Ion Ratio Lower Upper

127 100

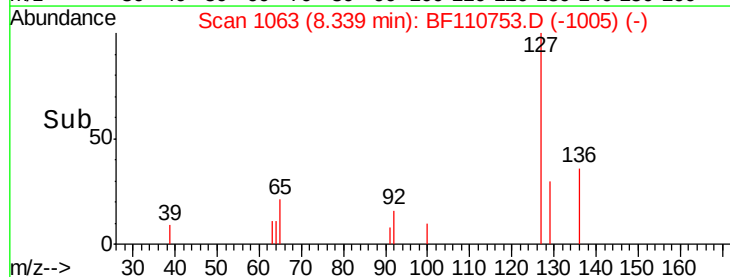
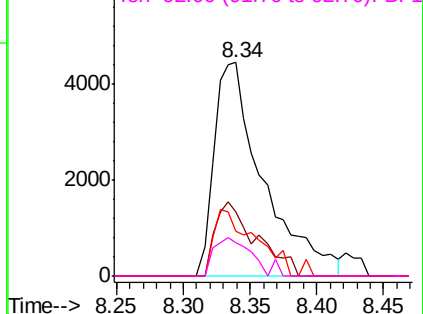
129 30.0 26.0 39.0

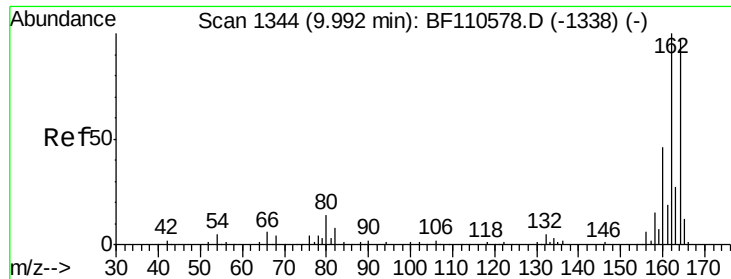
65 21.3 25.1 37.7#

92 15.6 15.0 22.6



Abundance Ion 127.00 (126.70 to 127.70): BF1  
Ion 129.00 (128.70 to 129.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 92.00 (91.70 to 92.70): BF1

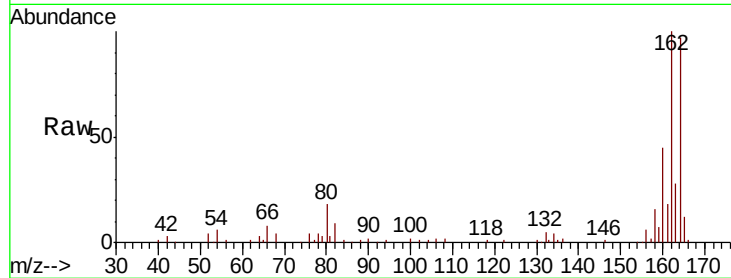




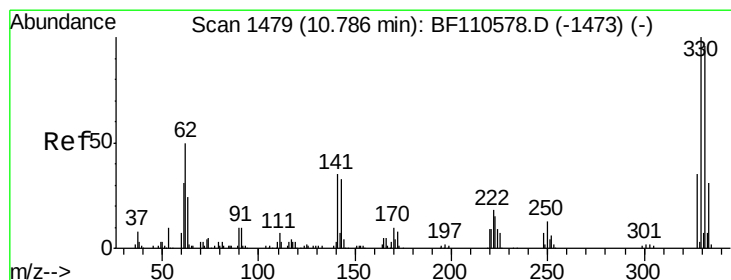
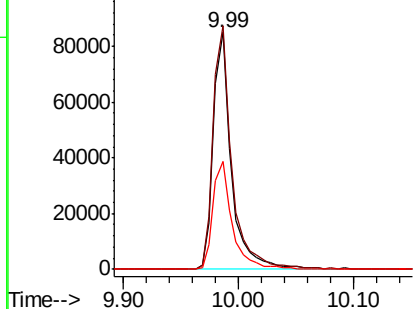
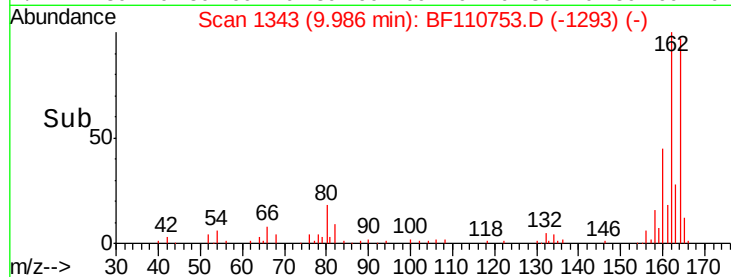
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.99 min Scan# 1343  
Delta R.T. -0.01 min  
Lab File: BF110753.D  
Acq: 14 Nov 2018 7:24

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:164 Resp: 93113  
Ion Ratio Lower Upper  
164 100  
162 102.9 83.0 124.6  
160 45.8 37.0 55.6

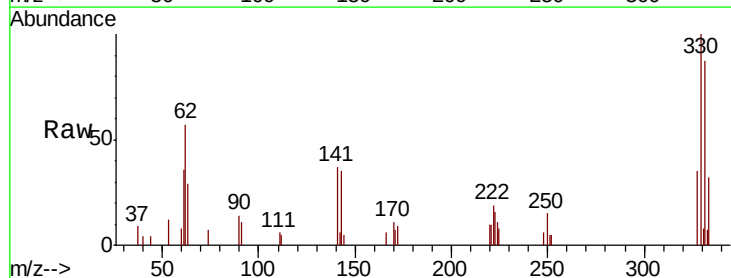


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

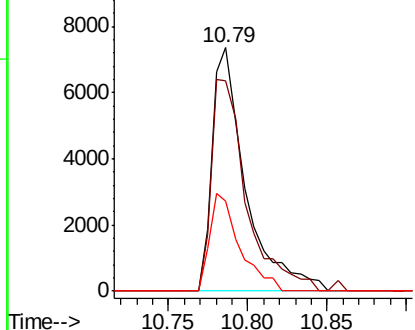
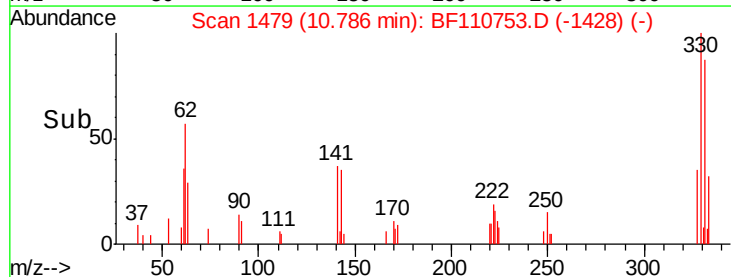


#42  
2,4,6-Tribromophenol  
Concen: 11.538 ng  
RT: 10.79 min Scan# 1479  
Delta R.T. 0.00 min  
Lab File: BF110753.D  
Acq: 14 Nov 2018 7:24

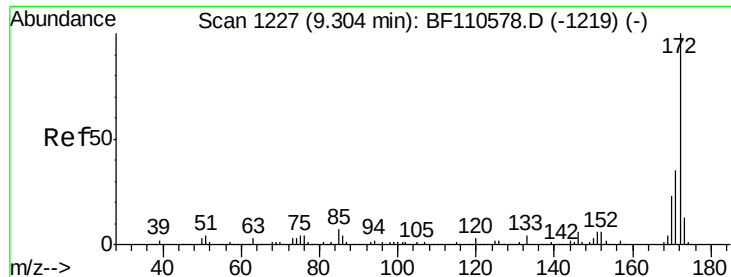
Tgt Ion:330 Resp: 10825  
Ion Ratio Lower Upper  
330 100  
332 91.2 77.1 115.7  
141 36.1 27.0 40.4



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



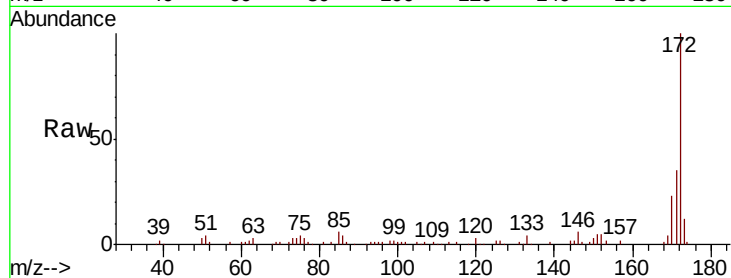




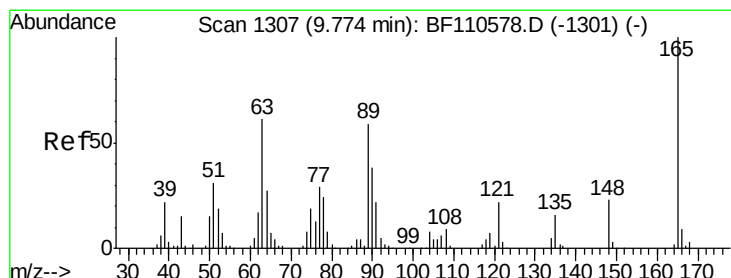
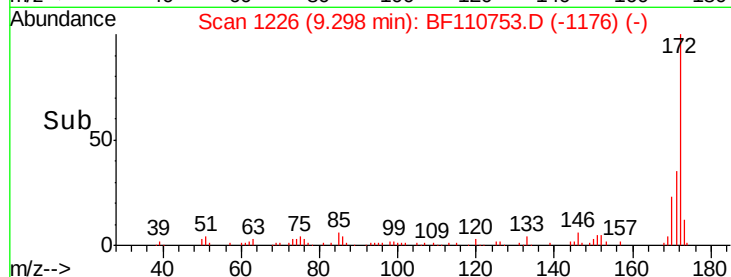
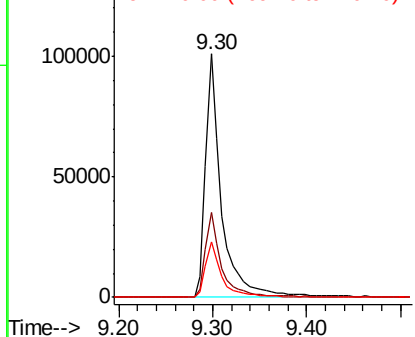
#45  
2-Fluorobiphenyl  
Concen: 18.606 ng  
RT: 9.30 min Scan# 1226  
Delta R.T. -0.01 min  
Lab File: BF110753.D  
Acq: 14 Nov 2018 7:24

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.6  | 28.6  | 43.0  |
| 170     | 22.5  | 19.7  | 29.5  |

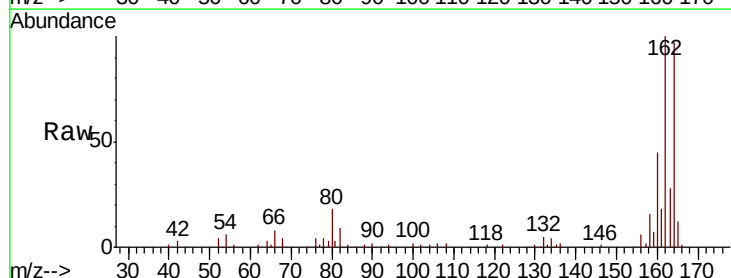


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

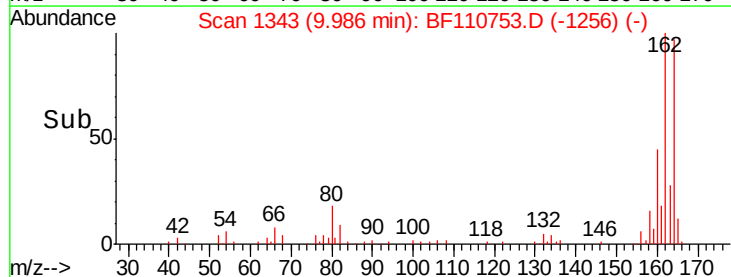
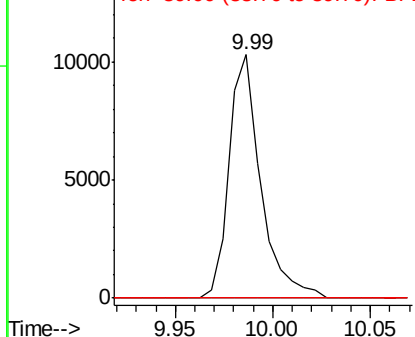


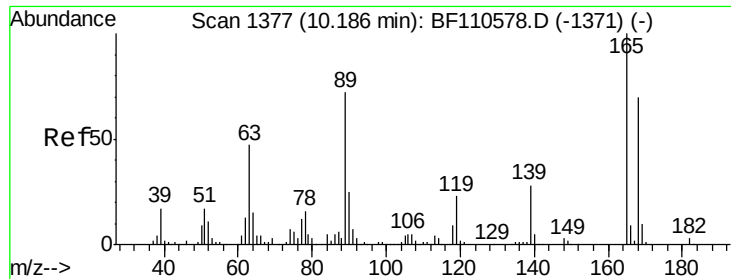
#51  
2,6-Dinitrotoluene  
Concen: 7.587 ng  
RT: 9.99 min Scan# 1343  
Delta R.T. 0.21 min  
Lab File: BF110753.D  
Acq: 14 Nov 2018 7:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 48.9  | 73.3# |
| 89      | 0.0   | 46.6  | 69.8# |



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

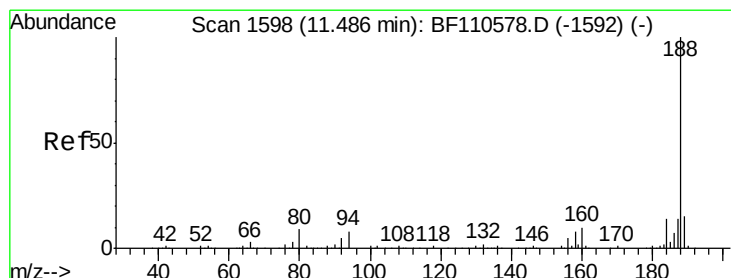
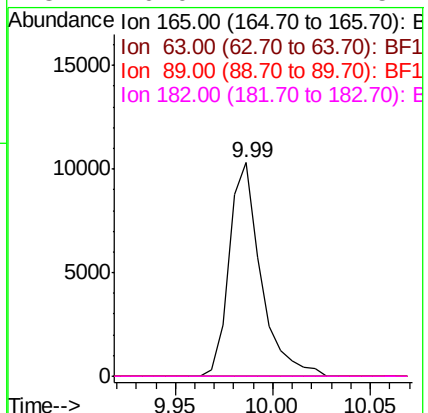
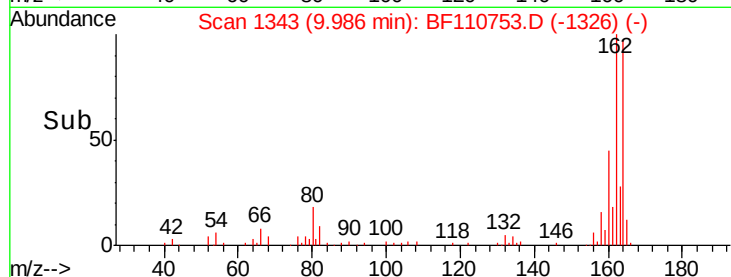
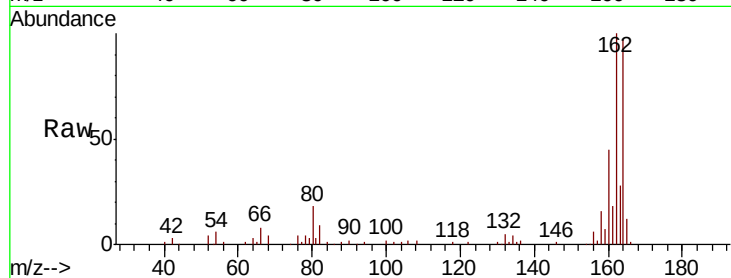




#57  
 2,4-Dinitrotoluene  
 Concen: 5.835 ng  
 RT: 9.99 min Scan# 1343  
 Delta R.T. -0.20 min  
 Lab File: BF110753.D  
 Acq: 14 Nov 2018 7:24

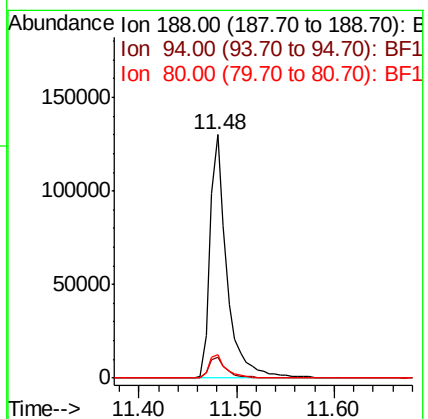
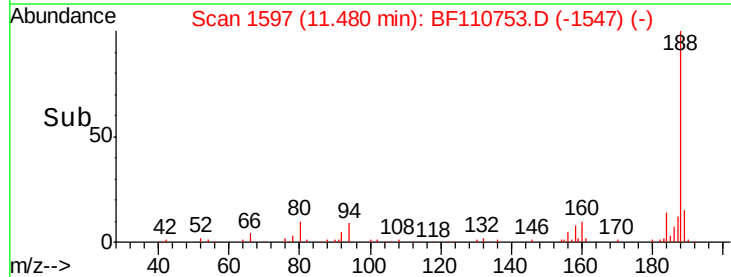
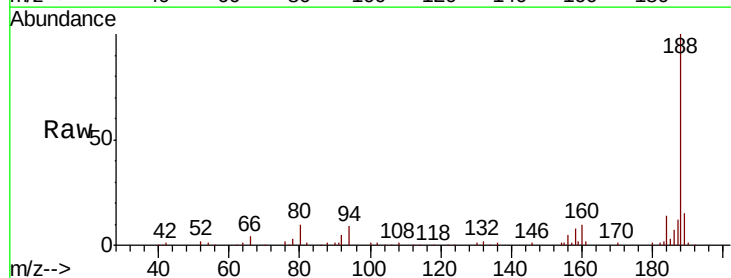
Instrument :  
 BNA\_F  
 ClientSampleId :

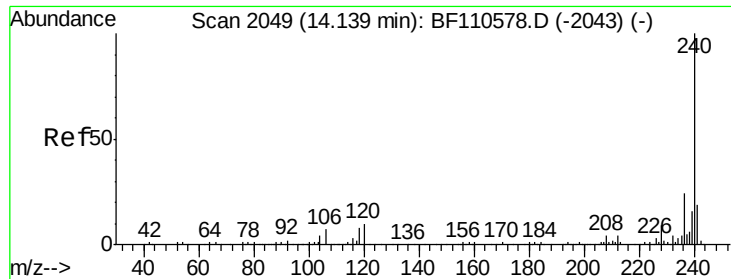
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 165   | Resp: | 11596 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 0.0   | 44.8  | 67.2# |
| 89       | 0.0   | 62.2  | 93.4# |
| 182      | 0.0   | 2.1   | 3.1#  |



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.48 min Scan# 1597  
 Delta R.T. -0.01 min  
 Lab File: BF110753.D  
 Acq: 14 Nov 2018 7:24

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 156318 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 8.6   | 7.2   | 10.8   |
| 80       | 9.9   | 7.9   | 11.9   |

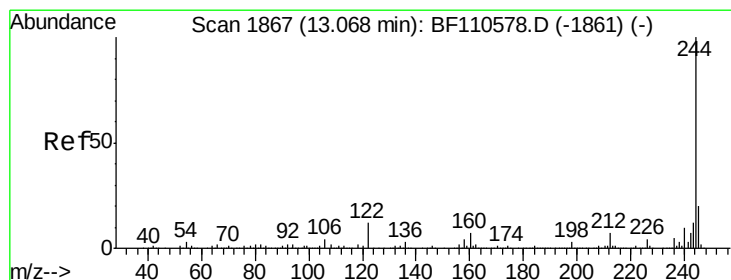
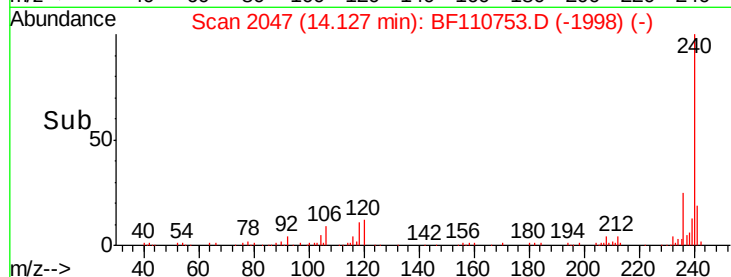
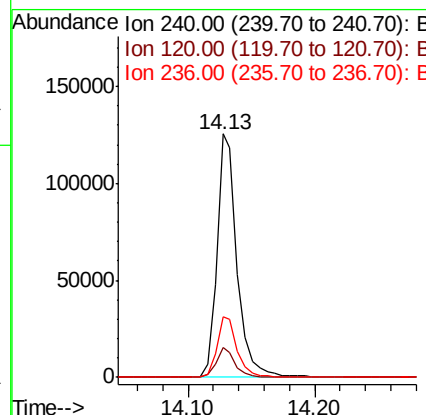
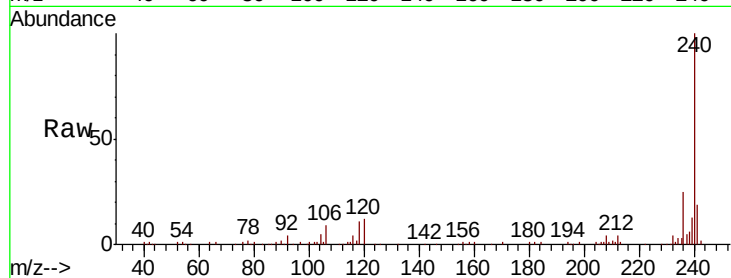




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.13 min Scan# 2047  
Delta R.T. -0.01 min  
Lab File: BF110753.D  
Acq: 14 Nov 2018 7:24

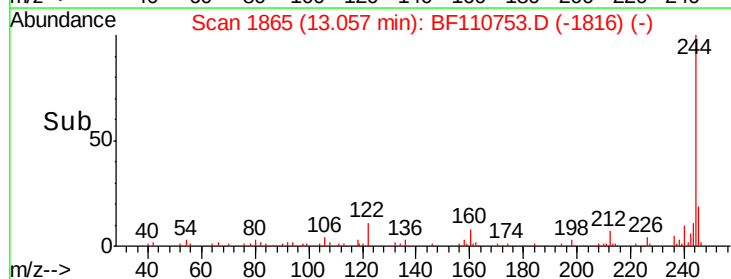
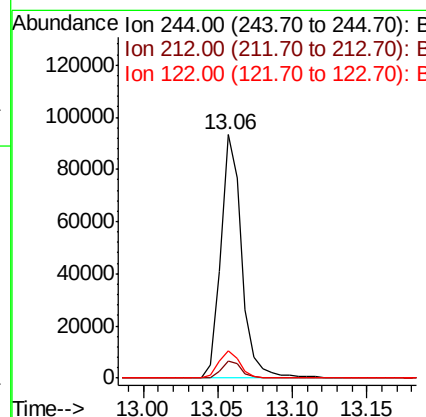
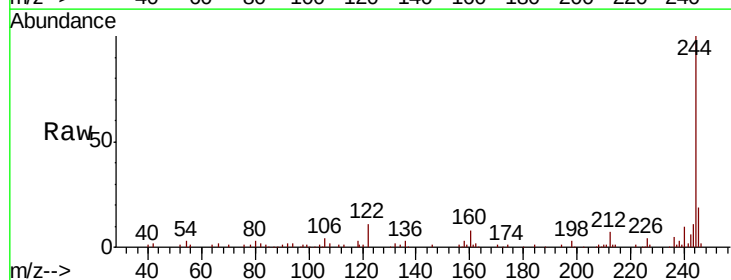
Instrument :  
BNA\_F  
ClientSampleId :

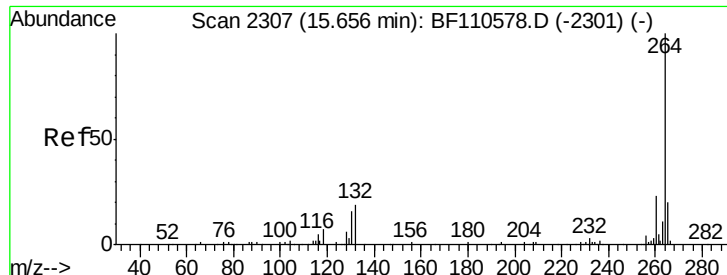
Tot Ion:240 Resp: 138941  
Ion Ratio Lower Upper  
240 100  
120 12.2 8.3 12.5  
236 24.9 21.2 31.8



#79  
Terphenyl-d14  
Concen: 12.376 ng  
RT: 13.06 min Scan# 1865  
Delta R.T. -0.01 min  
Lab File: BF110753.D  
Acq: 14 Nov 2018 7:24

Tgt Ion:244 Resp: 91815  
Ion Ratio Lower Upper  
244 100  
212 6.8 5.8 8.8  
122 11.5 8.7 13.1

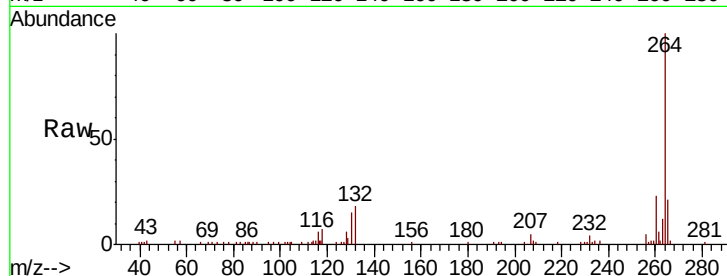




#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.66 min Scan# 2307  
Delta R.T. 0.00 min  
Lab File: BF110753.D  
Acq: 14 Nov 2018 7:24

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.6  | 18.7  | 28.1  |
| 265     | 21.4  | 16.7  | 25.1  |



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

