

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF122118\  
 Data File : BF111698.D  
 Acq On : 21 Dec 2018 20:14  
 Operator : JU/SJ  
 Sample : J6188-04  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BU-01-122018

Quant Time: Dec 21 22:36:21 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF121918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 19 17:39:39 2018  
 Response via : Initial Calibration

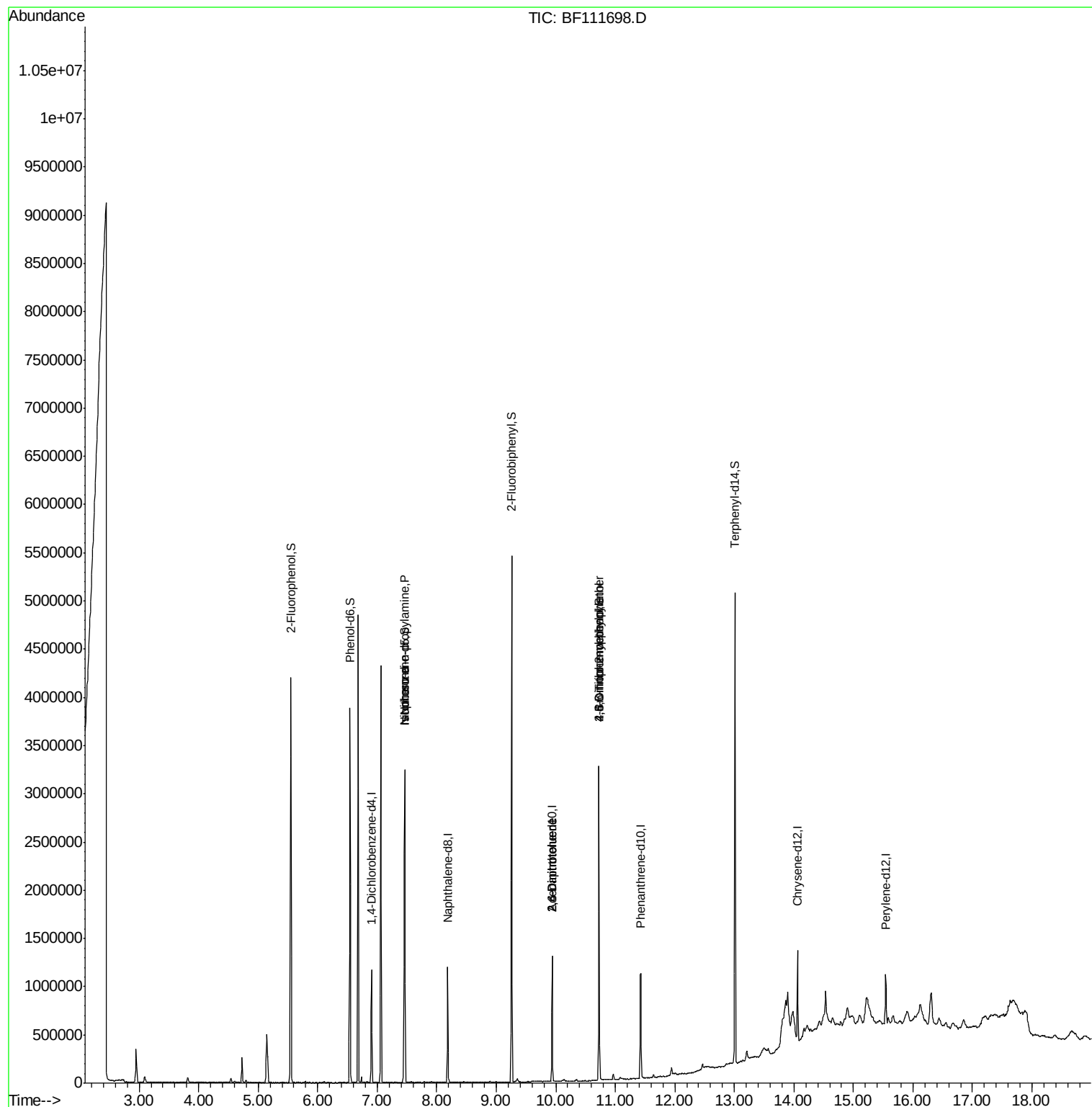
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.90  | 152  | 152585   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.19  | 136  | 528615   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.94  | 164  | 233308   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.43 | 188  | 418230   | 20.00  | ng    | 0.01     |
| 76) Chrysene-d12               | 14.06 | 240  | 317496   | 20.00  | ng    | 0.01     |
| 87) Perylene-d12               | 15.54 | 264  | 244832   | 20.00  | ng    | 0.03     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.55  | 112  | 1092749  | 122.07 | ng    | 0.04     |
| 7) Phenol-d6                   | 6.55  | 99   | 1229457  | 107.92 | ng    | 0.02     |
| 23) Nitrobenzene-d5            | 7.46  | 82   | 957372   | 105.42 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.73 | 330  | 398824   | 144.67 | ng    | 0.01     |
| 45) 2-Fluorobiphenyl           | 9.26  | 172  | 1681953  | 105.08 | ng    | 0.00     |
| 79) Terphenyl-d14              | 13.01 | 244  | 1717529  | 102.59 | ng    | 0.01     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.46  | 70   | 133634   | 17.663 | ng    | # 76     |
| 25) Isophorone                 | 7.46  | 82   | 955540   | 59.268 | ng    | # 64     |
| 51) 2,6-Dinitrotoluene         | 9.94  | 165  | 30180    | 8.871  | ng    | # 29     |
| 57) 2,4-Dinitrotoluene         | 9.94  | 165  | 30180    | 7.381  | ng    | # 25     |
| 65) 4,6-Dinitro-2-methylphenol | 10.73 | 198  | 714      | 7.048  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether  | 10.73 | 248  | 24290    | 4.683  | ng    | # 1      |

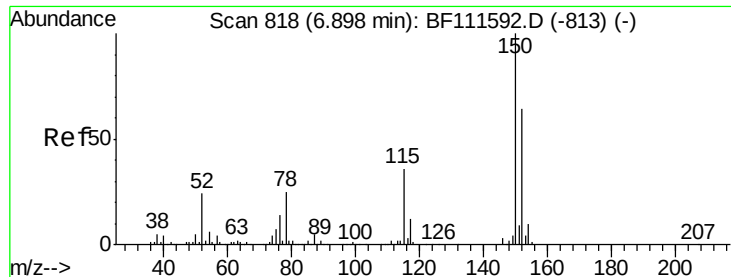
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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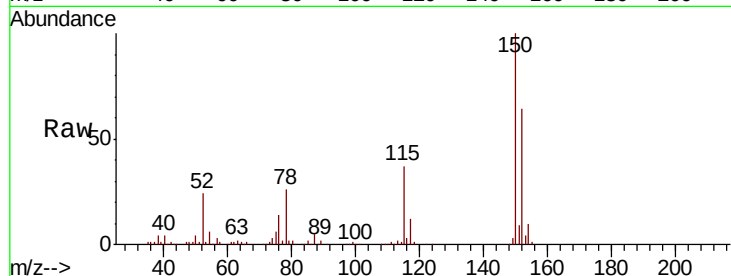


#1

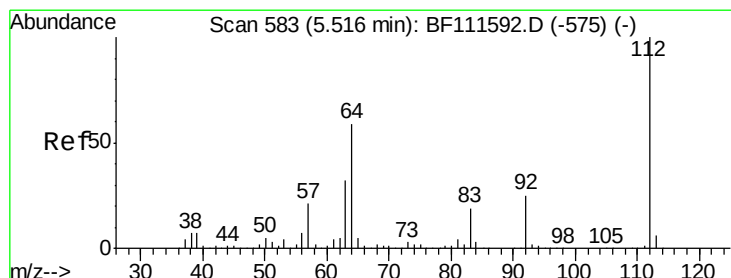
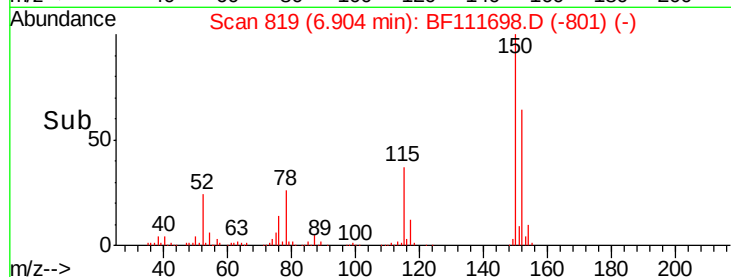
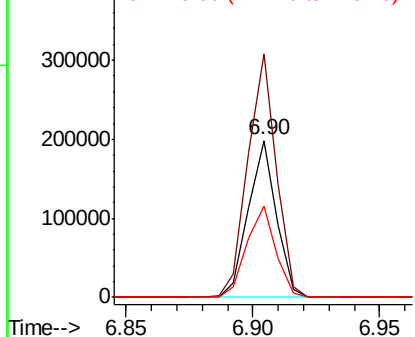
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.90 min Scan# 819  
Delta R.T. 0.01 min  
Lab File: BF111698.D  
Acq: 21 Dec 2018 20:14

Instrument :  
BNA\_F  
ClientSampleId :  
BU-01-122018

Tgt Ion:152 Resp: 152585  
Ion Ratio Lower Upper  
152 100  
150 155.2 126.6 189.8  
115 57.9 50.7 76.1



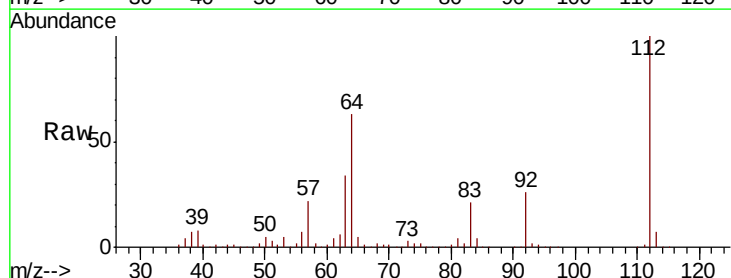
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



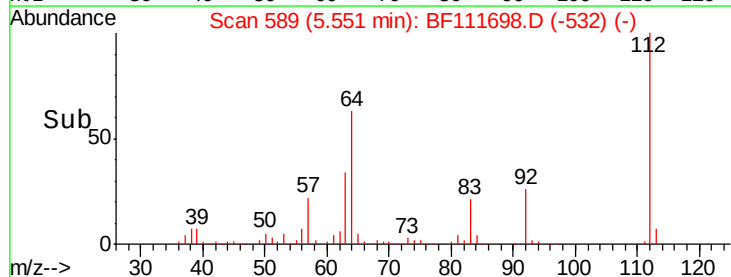
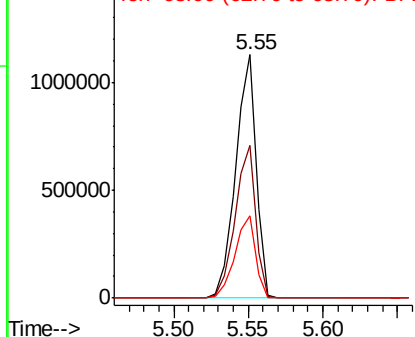
#5

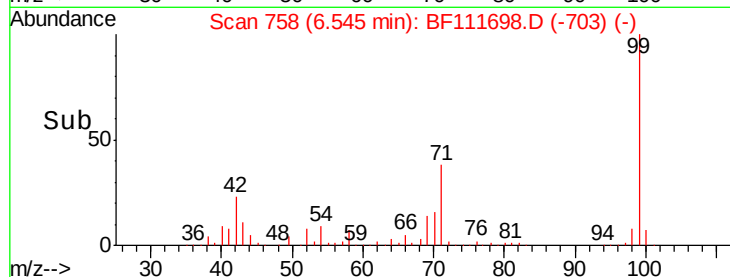
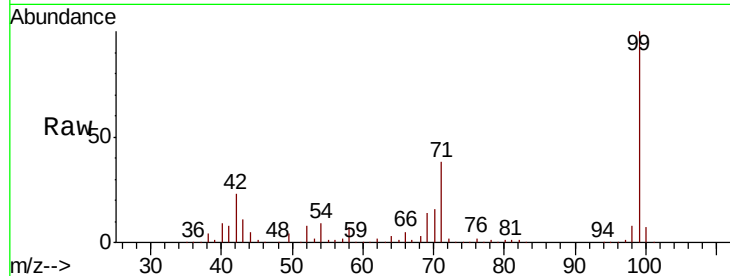
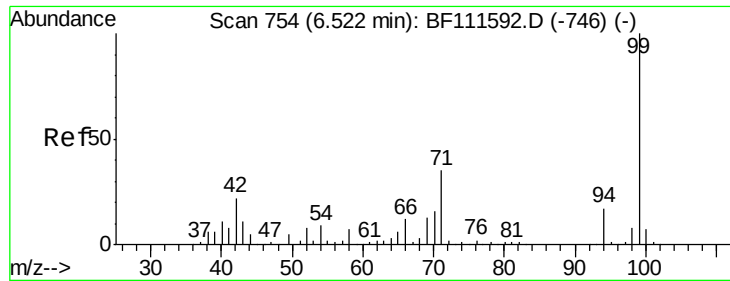
2-Fluorophenol  
Concen: 122.071 ng  
RT: 5.55 min Scan# 589  
Delta R.T. 0.04 min  
Lab File: BF111698.D  
Acq: 21 Dec 2018 20:14

Tgt Ion:112 Resp: 1092749  
Ion Ratio Lower Upper  
112 100  
64 62.8 51.8 77.6  
63 34.0 26.8 40.2



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: 107.919 ng

RT: 6.55 min Scan# 758

Delta R.T. 0.02 min

Lab File: BF111698.D

Acq: 21 Dec 2018 20:14

Instrument :

BNA\_F

ClientSampleId :

BU-01-122018

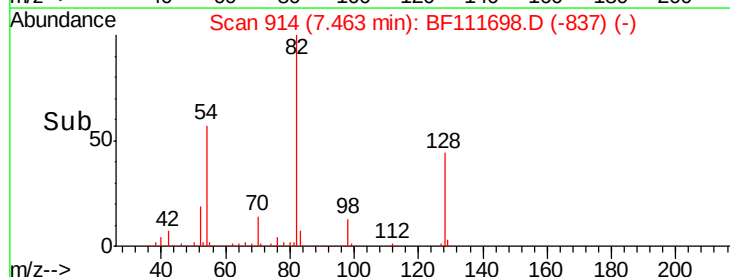
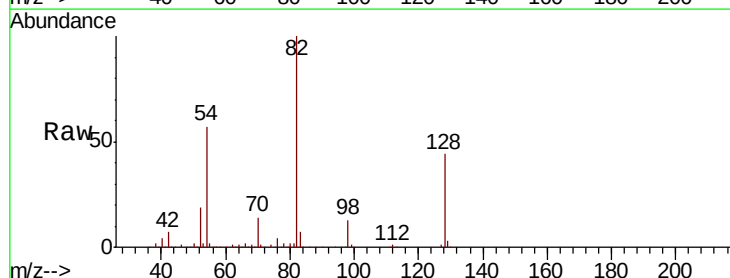
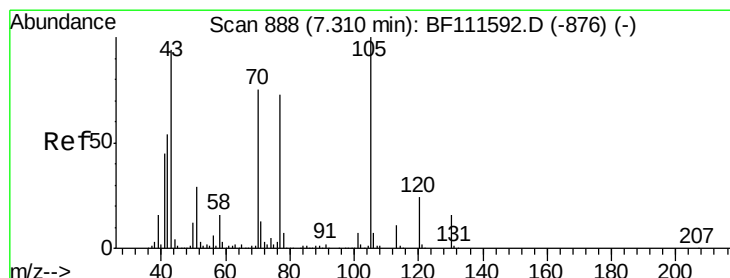
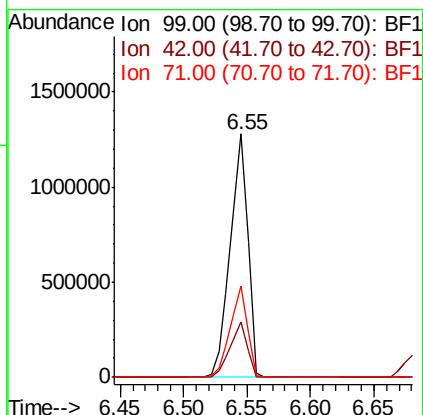
Tgt Ion: 99 Resp: 1229457

Ion Ratio Lower Upper

99 100

42 22.8 17.4 26.0

71 37.6 26.1 39.1



#19

n-Nitroso-di-n-propylamine

Concen: 17.663 ng

RT: 7.46 min Scan# 914

Delta R.T. 0.15 min

Lab File: BF111698.D

Acq: 21 Dec 2018 20:14

Tgt Ion: 70 Resp: 133634

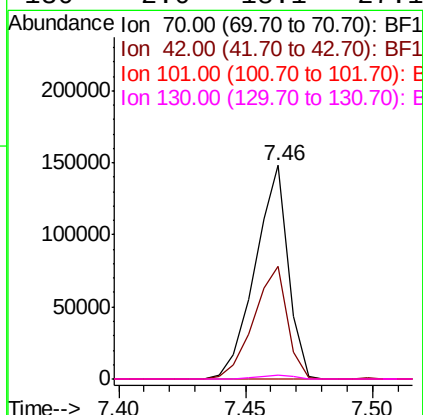
Ion Ratio Lower Upper

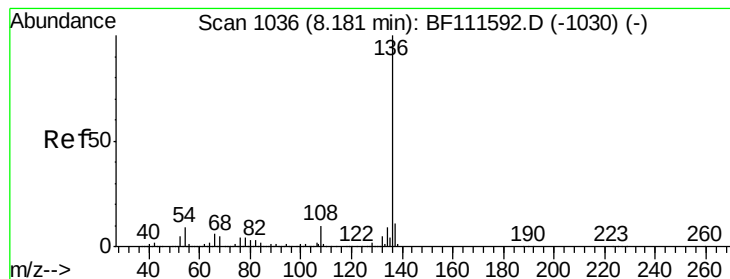
70 100

42 52.8 53.2 79.8#

101 0.0 8.2 12.4#

130 2.0 18.1 27.1#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.19 min Scan# 1037

Delta R.T. 0.01 min

Lab File: BF111698.D

Acq: 21 Dec 2018 20:14

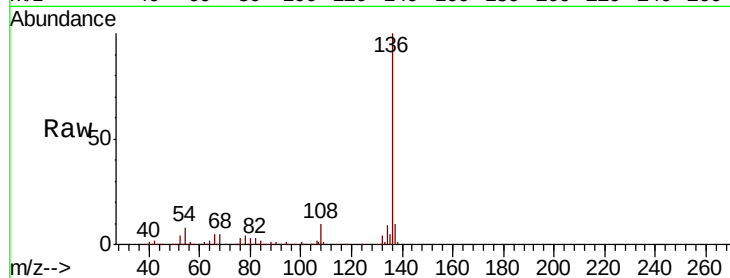
Instrument :

BNA\_F

ClientSampleId :

BU-01-122018

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 528615 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.4  | 9.1   | 13.7   |
| 54       | 7.9   | 7.7   | 11.5   |
| 68       | 4.8   | 4.9   | 7.3#   |

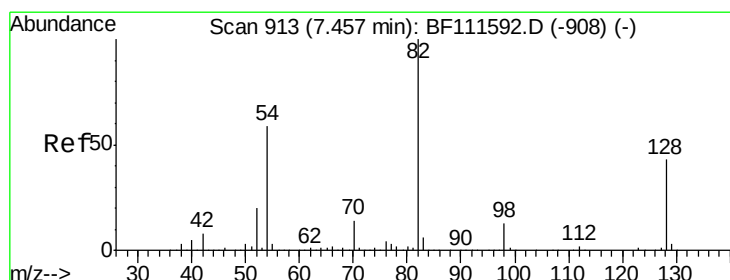
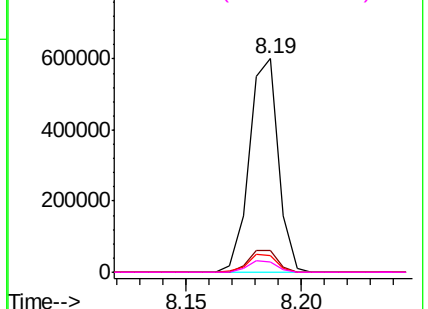
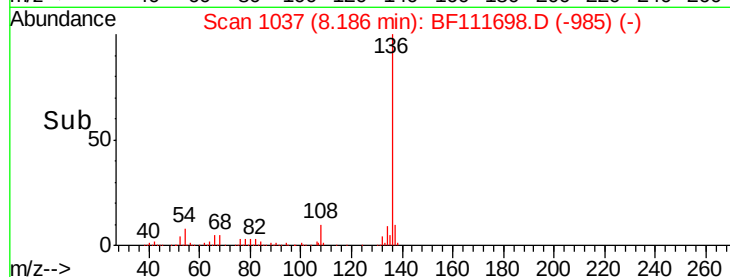


Abundance Ion 136.00 (135.70 to 136.70): E

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: 105.420 ng

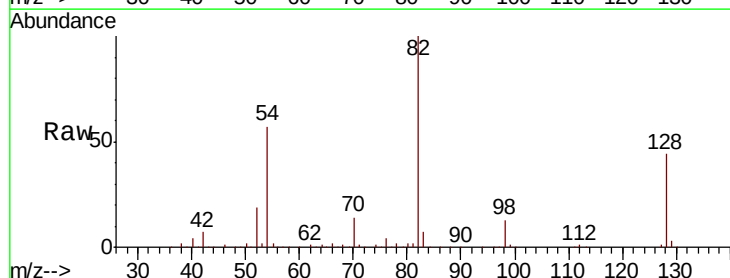
RT: 7.46 min Scan# 914

Delta R.T. 0.01 min

Lab File: BF111698.D

Acq: 21 Dec 2018 20:14

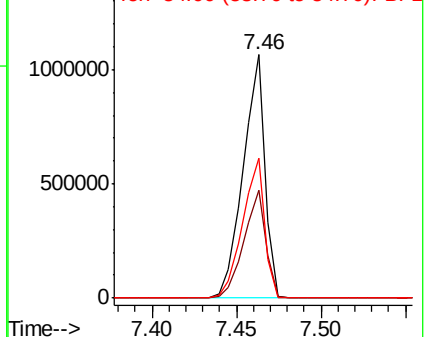
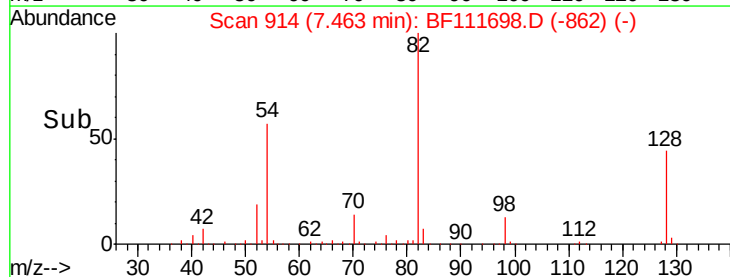
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 957372 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 44.1  | 37.4  | 56.2   |
| 54       | 57.4  | 47.6  | 71.4   |

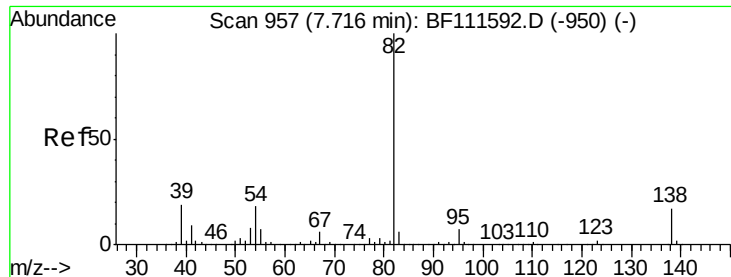


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 59.268 ng

RT: 7.46 min Scan# 914

Delta R.T. -0.25 min

Lab File: BF111698.D

Acq: 21 Dec 2018 20:14

Instrument :

BNA\_F

ClientSampleId :

BU-01-122018

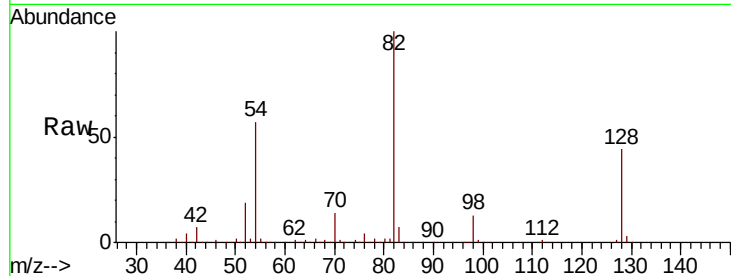
Tgt Ion: 82 Resp: 955540

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.2#

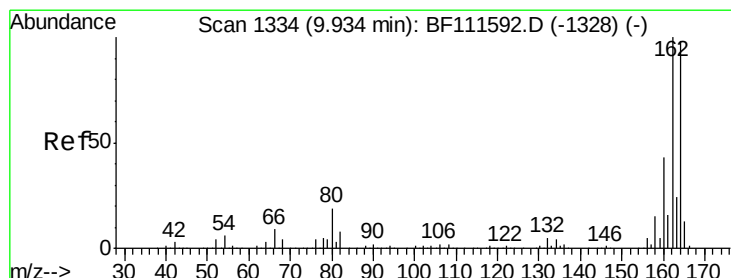
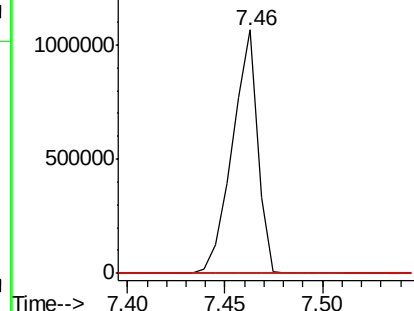
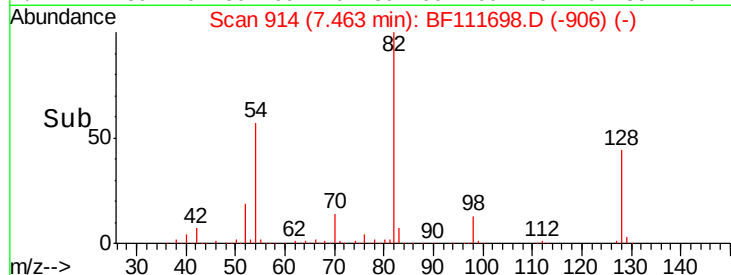
138 0.0 15.1 22.7#



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



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.94 min Scan# 1335

Delta R.T. 0.01 min

Lab File: BF111698.D

Acq: 21 Dec 2018 20:14

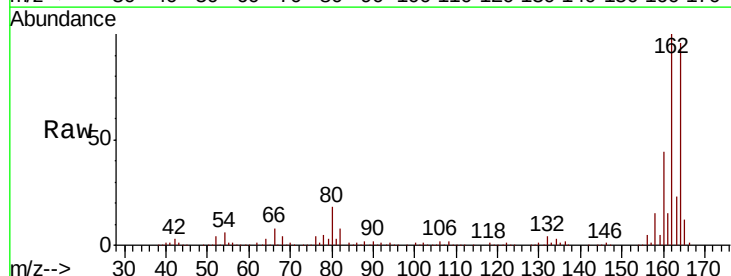
Tgt Ion: 164 Resp: 233308

Ion Ratio Lower Upper

164 100

162 104.0 81.4 122.0

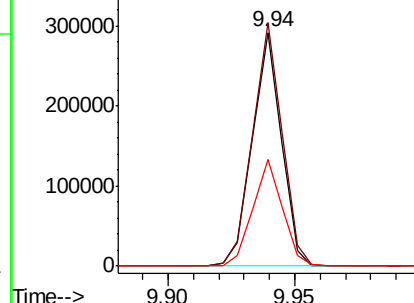
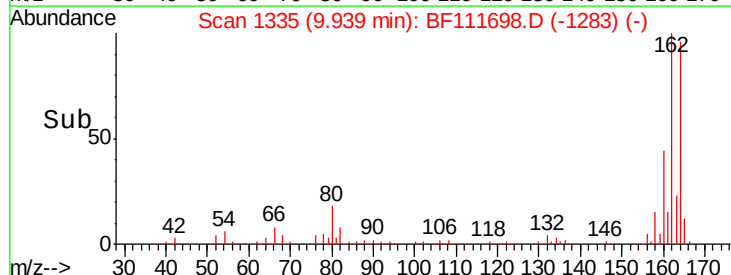
160 45.6 35.7 53.5

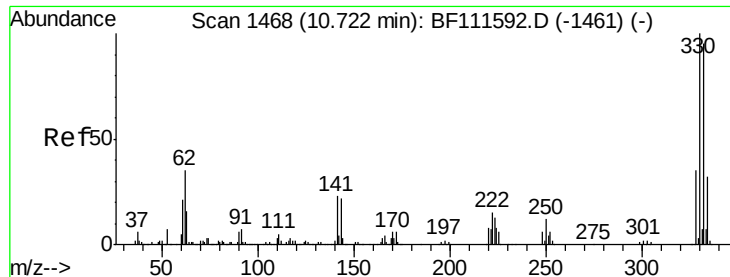


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

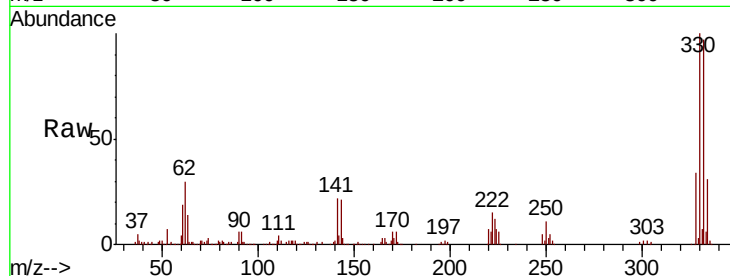




#42  
 2,4,6-Tribromophenol  
 Concen: 144.674 ng  
 RT: 10.73 min Scan# 1470  
 Delta R.T. 0.01 min  
 Lab File: BF111698.D  
 Acq: 21 Dec 2018 20:14

Instrument :  
 BNA\_F  
 ClientSampleId :  
 BU-01-122018

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.7  | 76.0  | 114.0 |
| 141     | 30.5  | 31.0  | 46.6# |

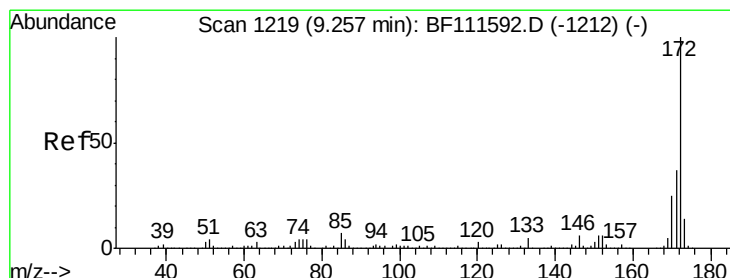
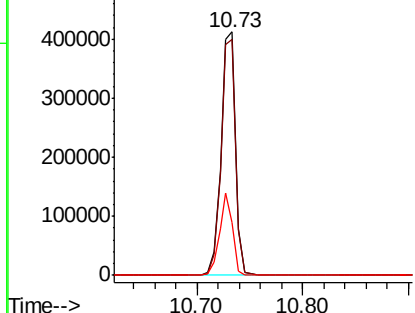
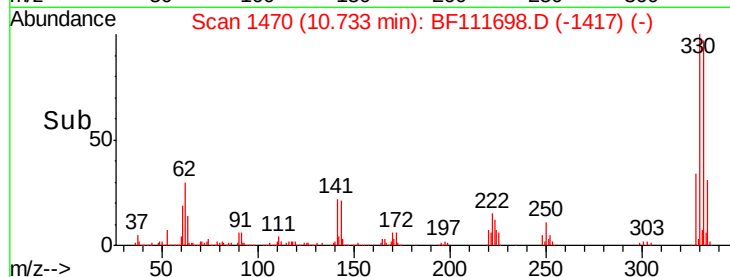


Abundance

Ion 329.80 (329.50 to 330.50): E

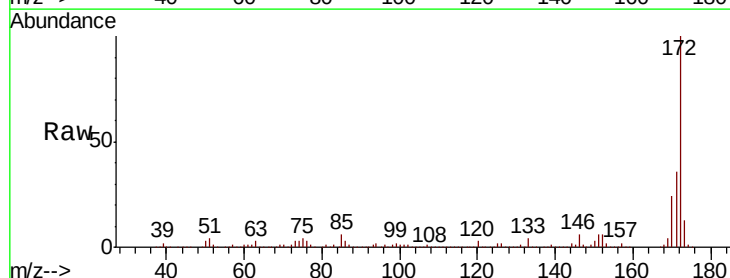
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 105.079 ng  
 RT: 9.26 min Scan# 1220  
 Delta R.T. 0.01 min  
 Lab File: BF111698.D  
 Acq: 21 Dec 2018 20:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.2  | 33.0  | 49.4  |
| 170     | 24.3  | 22.3  | 33.5  |

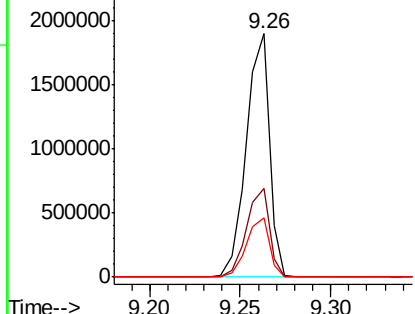
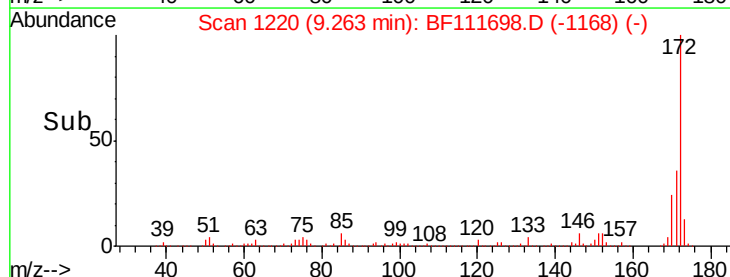


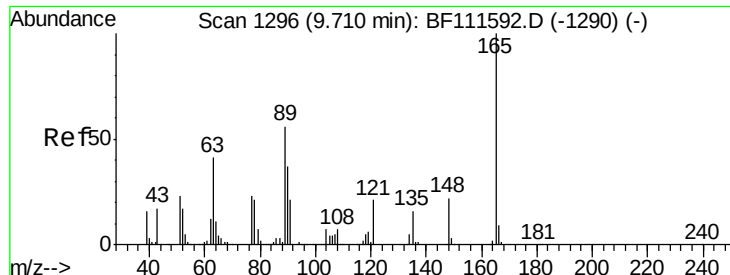
Abundance

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

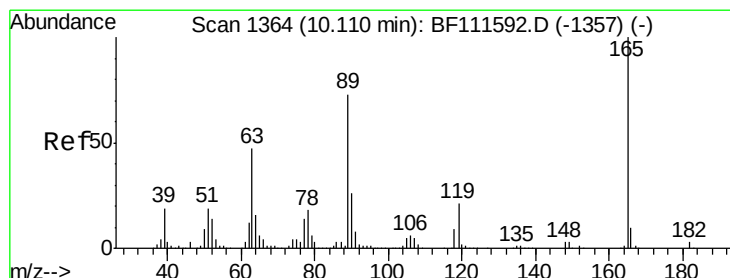
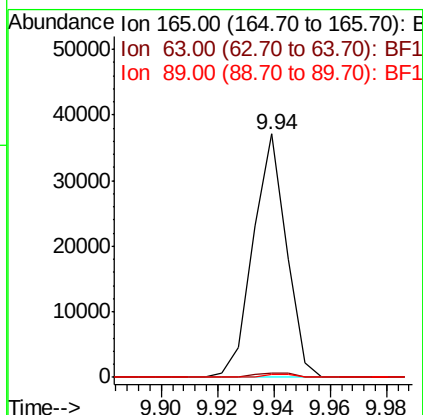
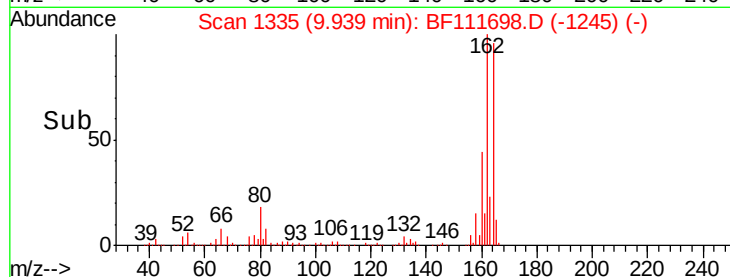
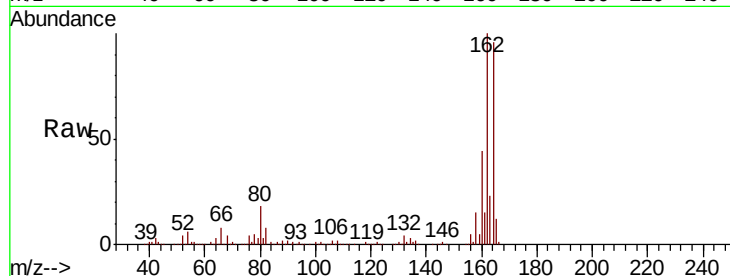




#51  
 2,6-Dinitrotoluene  
 Concen: 8.871 ng  
 RT: 9.94 min Scan# 1335  
 Delta R.T. 0.23 min  
 Lab File: BF111698.D  
 Acq: 21 Dec 2018 20:14

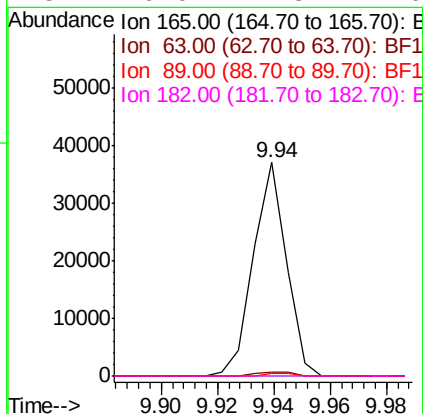
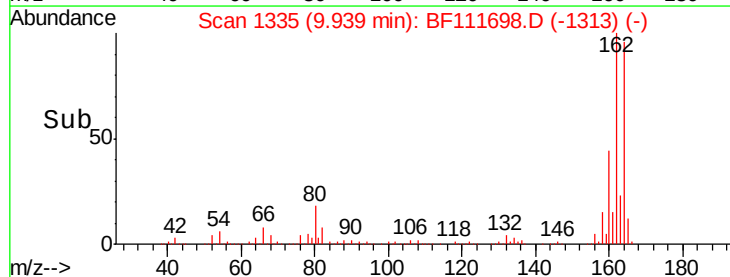
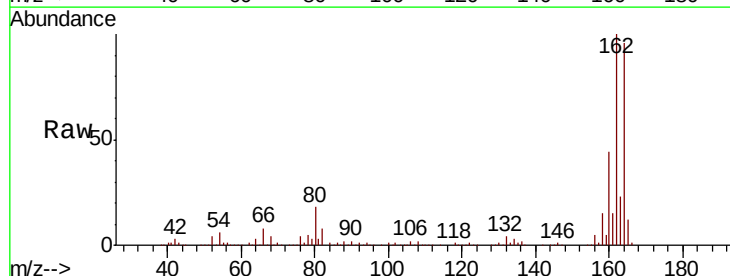
Instrument :  
 BNA\_F  
 ClientSampleId :  
 BU-01-122018

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.8   | 40.5  | 60.7# |
| 89      | 1.3   | 40.0  | 60.0# |

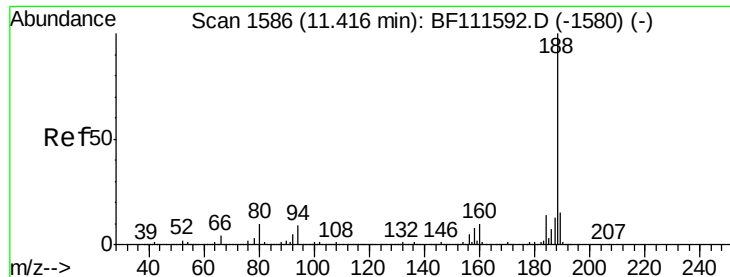


#57  
 2,4-Dinitrotoluene  
 Concen: 7.381 ng  
 RT: 9.94 min Scan# 1335  
 Delta R.T. -0.17 min  
 Lab File: BF111698.D  
 Acq: 21 Dec 2018 20:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.8   | 34.6  | 52.0# |
| 89      | 1.3   | 56.2  | 84.4# |
| 182     | 0.0   | 1.8   | 2.6#  |







#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.43 min Scan# 1588

Delta R.T. 0.01 min

Lab File: BF111698.D

Acq: 21 Dec 2018 20:14

Instrument :

BNA\_F

ClientSampleId :

BU-01-122018

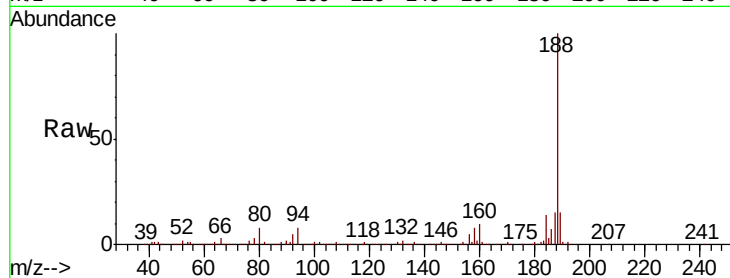
Tgt Ion:188 Resp: 418230

Ion Ratio Lower Upper

188 100

94 7.9 9.6 14.4#

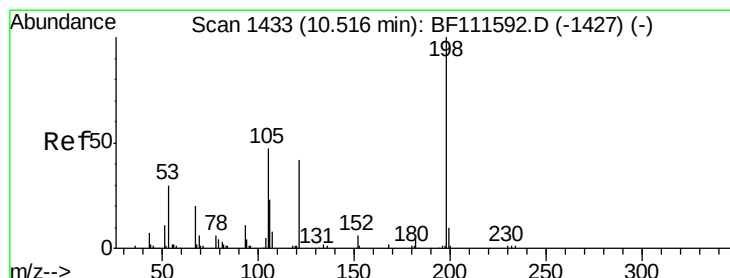
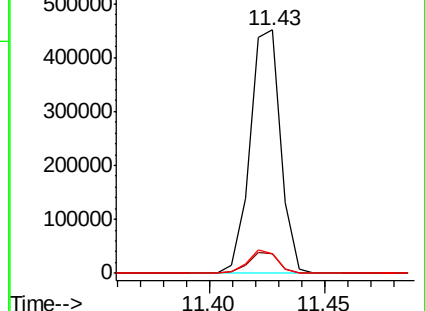
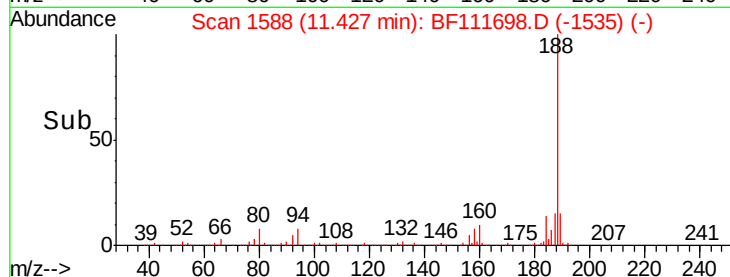
80 7.8 9.8 14.6#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#65

4,6-Dinitro-2-methylphenol

Concen: 7.048 ng

RT: 10.73 min Scan# 1469

Delta R.T. 0.21 min

Lab File: BF111698.D

Acq: 21 Dec 2018 20:14

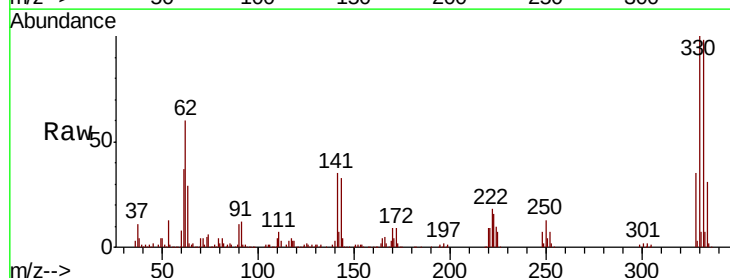
Tgt Ion:198 Resp: 714

Ion Ratio Lower Upper

198 100

51 248.3 48.0 88.0#

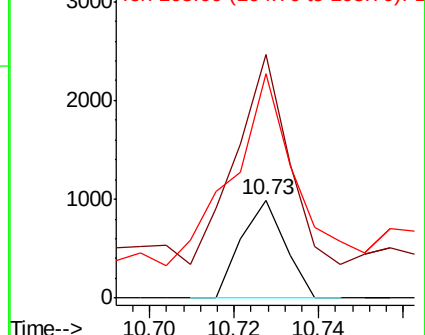
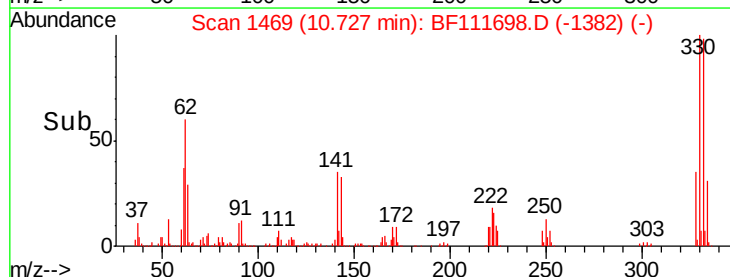
105 228.6 34.0 74.0#

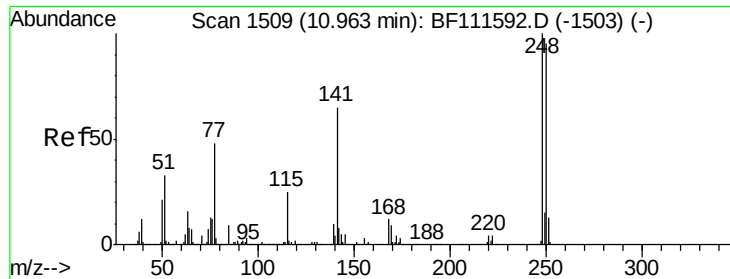


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E

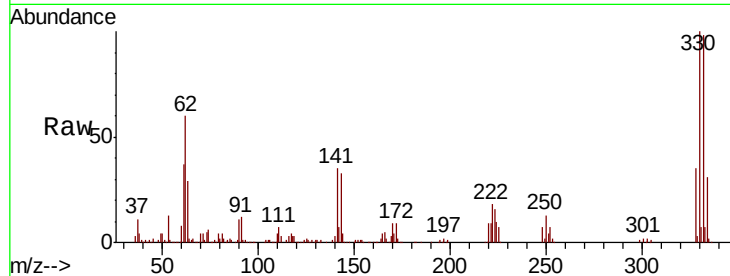




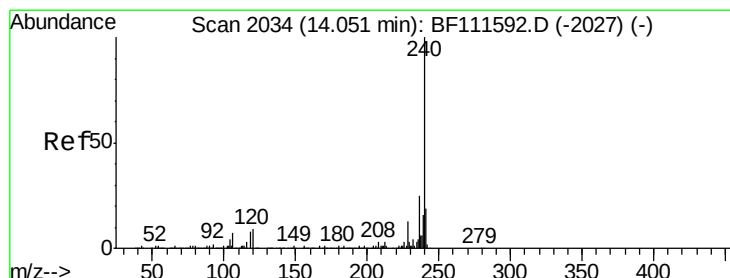
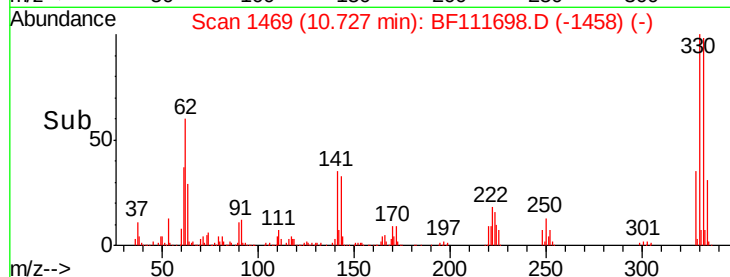
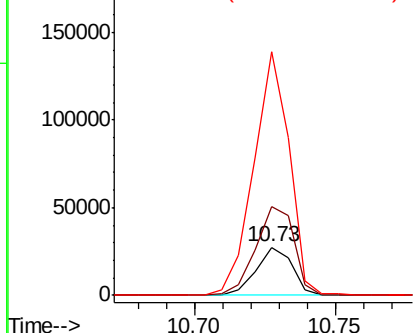
#67  
4-Bromophenyl-phenylether  
Concen: 4.683 ng  
RT: 10.73 min Scan# 1469  
Delta R.T. -0.24 min  
Lab File: BF111698.D  
Acq: 21 Dec 2018 20:14

Instrument :  
BNA\_F  
ClientSampleId :  
BU-01-122018

Tgt Ion:248 Resp: 24290  
Ion Ratio Lower Upper  
248 100  
250 185.9 77.0 115.4#  
141 508.0 63.0 94.6#

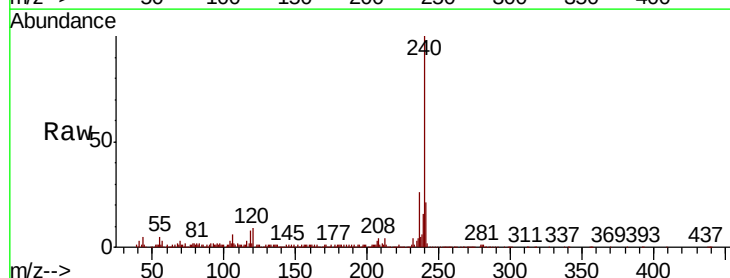


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

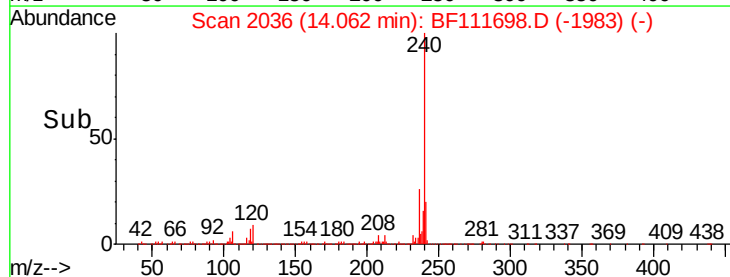
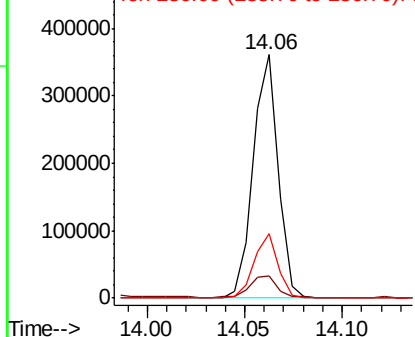


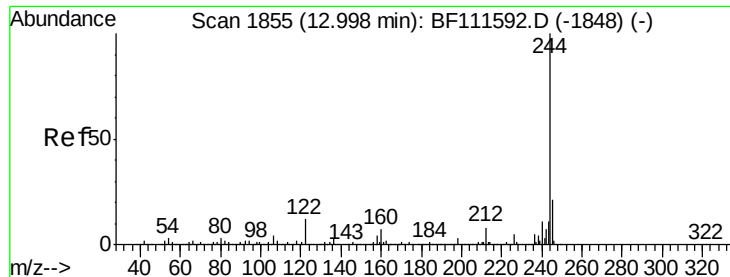
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.06 min Scan# 2036  
Delta R.T. 0.01 min  
Lab File: BF111698.D  
Acq: 21 Dec 2018 20:14

Tgt Ion:240 Resp: 317496  
Ion Ratio Lower Upper  
240 100  
120 9.2 12.2 18.2#  
236 26.4 20.2 30.2



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





#79

Terphenyl-d14

Concen: 102.589 ng

RT: 13.01 min Scan# 1857

Delta R.T. 0.01 min

Lab File: BF111698.D

Acq: 21 Dec 2018 20:14

Instrument :

BNA\_F

ClientSampleId :

BU-01-122018

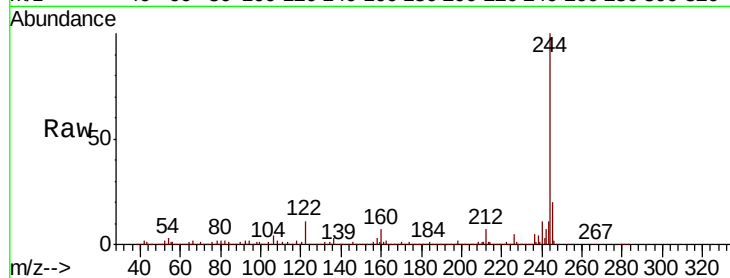
Tgt Ion:244 Resp: 1717529

Ion Ratio Lower Upper

244 100

212 7.3 5.7 8.5

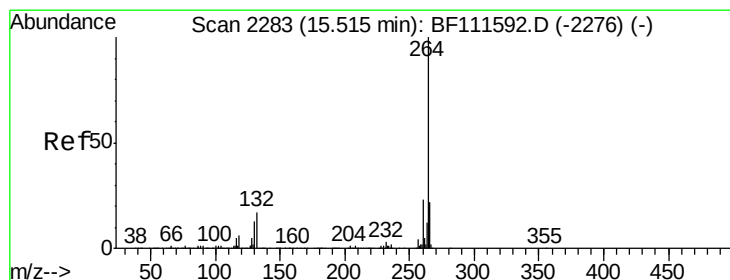
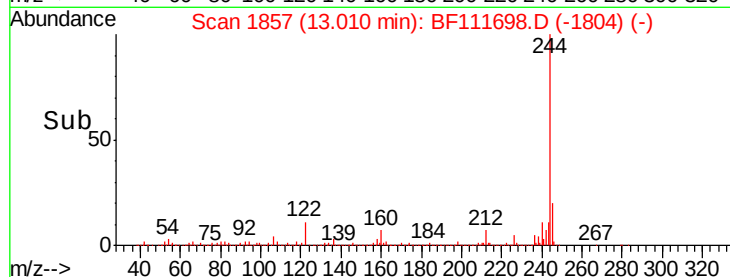
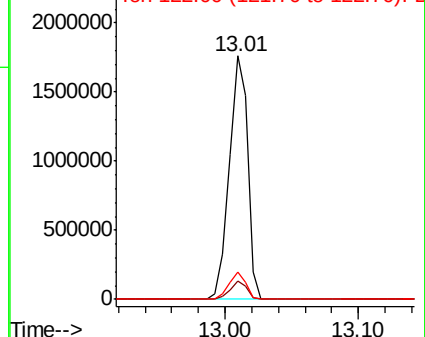
122 11.1 13.1 19.7#



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.54 min Scan# 2288

Delta R.T. 0.03 min

Lab File: BF111698.D

Acq: 21 Dec 2018 20:14

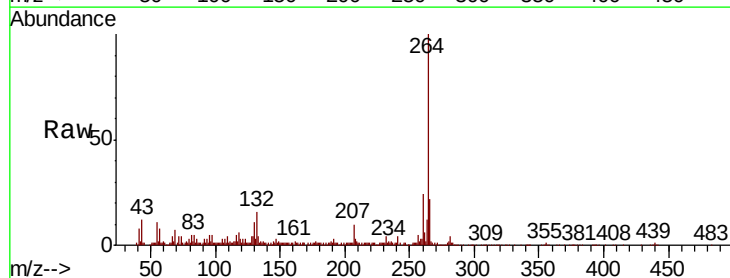
Tgt Ion:264 Resp: 244832

Ion Ratio Lower Upper

264 100

260 23.9 18.3 27.5

265 22.3 17.7 26.5



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

