

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF121718\  
 Data File : BF111537.D  
 Acq On : 17 Dec 2018 14:11  
 Operator : JU/SJ  
 Sample : J6386-11  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

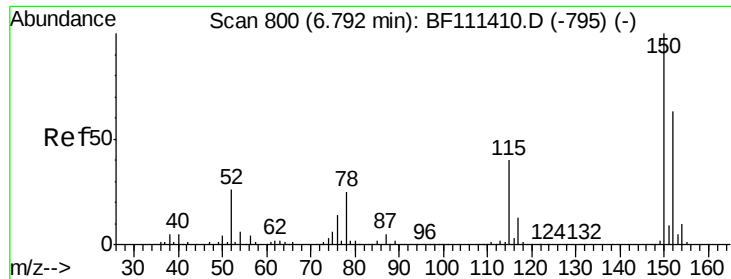
Instrument :  
 BNA\_F  
 ClientSampleId :  
 P001-SS006-1218-01

Quant Time: Dec 18 04:08:30 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF121418.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 14 13:26:17 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.79  | 152  | 155144   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.07  | 136  | 582813   | 20.00  | ng    | -0.01    |
| 39) Acenaphthene-d10           | 9.82  | 164  | 230477   | 20.00  | ng    | -0.01    |
| 64) Phenanthrene-d10           | 11.31 | 188  | 305292   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 13.94 | 240  | 293327   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 15.39 | 264  | 240711   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.42  | 112  | 853563   | 91.55  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.44  | 99   | 1074194  | 86.62  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.35  | 82   | 645000   | 65.90  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol       | 10.61 | 330  | 158922   | 76.98  | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 9.15  | 172  | 1037117  | 69.51  | ng    | -0.01    |
| 79) Terphenyl-d14              | 12.89 | 244  | 643676   | 51.53  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 9) Benzaldehyde                | 6.33  | 77   | 19930    | 2.650  | ng    | 91       |
| 10) Phenol                     | 6.45  | 94   | 65037    | 4.708  | ng    | 92       |
| 19) n-Nitroso-di-n-propylamine | 7.35  | 70   | 84279    | 10.301 | ng    | # 78     |
| 25) Isophorone                 | 7.35  | 82   | 644994   | 38.949 | ng    | # 64     |
| 50) Dimethylphthalate          | 9.54  | 163  | 85635    | 5.159  | ng    | 96       |
| 57) 2,4-Dinitrotoluene         | 9.82  | 165  | 30450    | 6.210  | ng    | # 24     |
| 67) 4-Bromophenyl-phenylether  | 10.61 | 248  | 10232    | 3.110  | ng    | # 1      |
| 71) Phenanthrene               | 11.33 | 178  | 33986    | 2.160  | ng    | 92       |
| 78) Pyrene                     | 12.75 | 202  | 45077    | 2.180  | ng    | 95       |

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



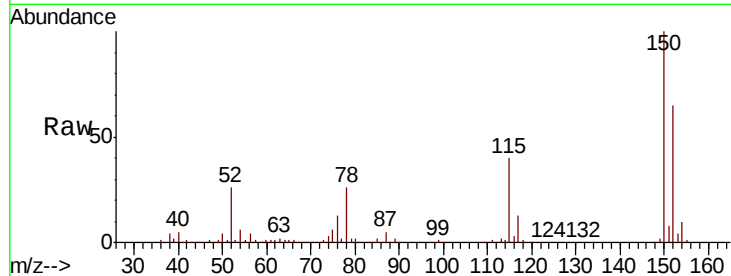


#1

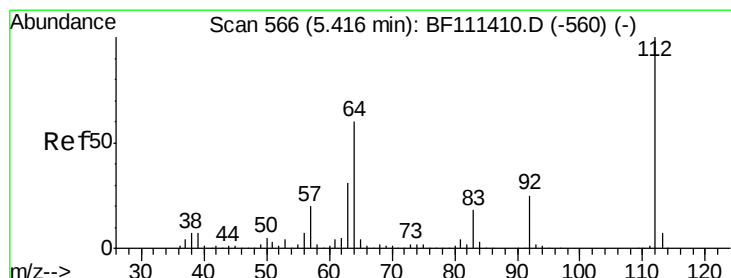
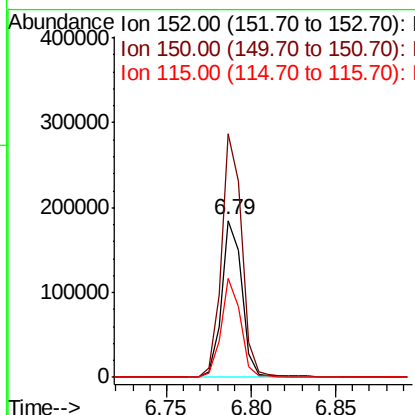
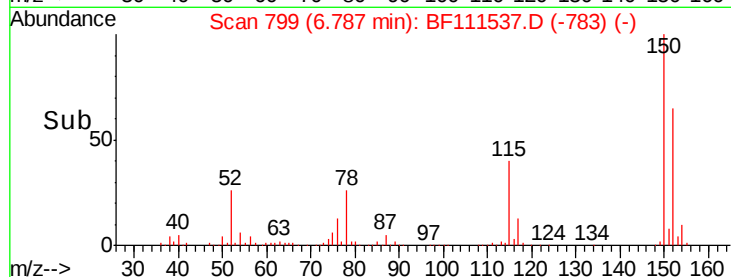
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.79 min Scan# 799  
Delta R.T. -0.01 min  
Lab File: BF111537.D  
Acq: 17 Dec 2018 14:11

Instrument :  
BNA\_F  
ClientSampleId :  
P001-SS006-1218-01

Tgt Ion:152 Resp: 155144  
Ion Ratio Lower Upper  
152 100  
150 154.9 126.6 189.8  
115 62.7 50.7 76.1



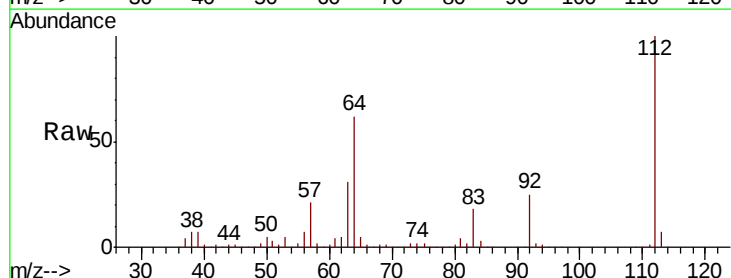
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



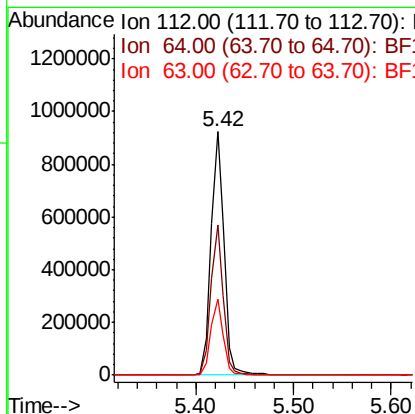
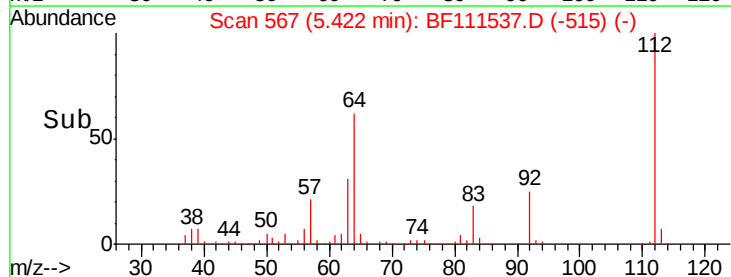
#5

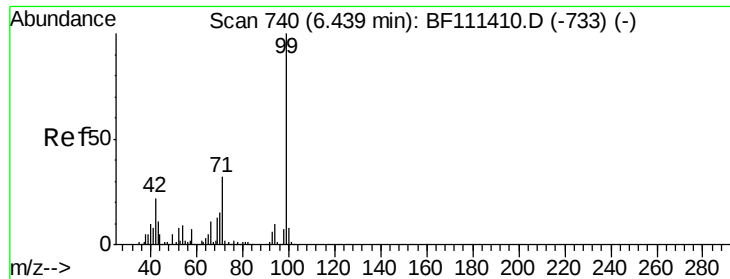
2-Fluorophenol  
Concen: 91.552 ng  
RT: 5.42 min Scan# 567  
Delta R.T. 0.01 min  
Lab File: BF111537.D  
Acq: 17 Dec 2018 14:11

Tgt Ion:112 Resp: 853563  
Ion Ratio Lower Upper  
112 100  
64 61.8 51.8 77.6  
63 31.1 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: 86.618 ng

RT: 6.44 min Scan# 740

Delta R.T. 0.00 min

Lab File: BF111537.D

Acq: 17 Dec 2018 14:11

Instrument :

BNA\_F

ClientSampleId :

P001-SS006-1218-01

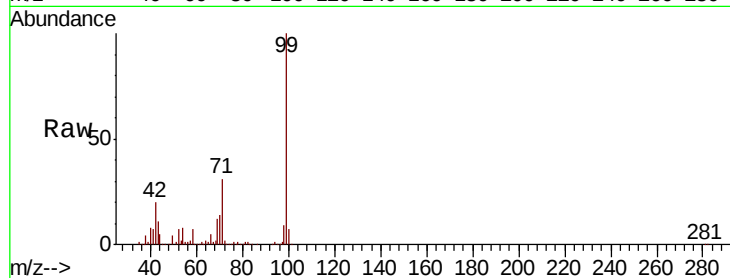
Tgt Ion: 99 Resp: 1074194

Ion Ratio Lower Upper

99 100

42 19.5 17.4 26.0

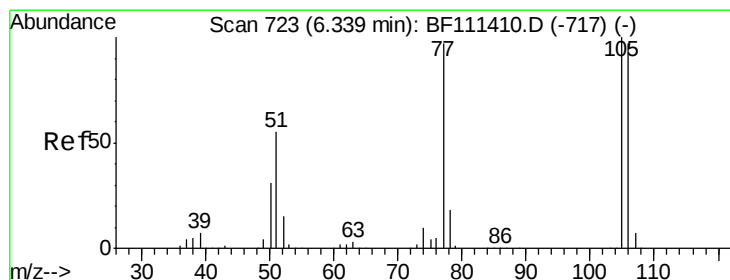
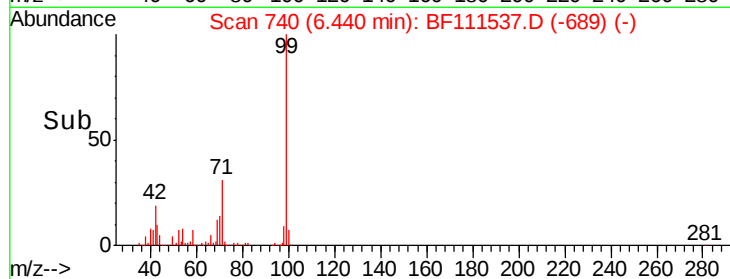
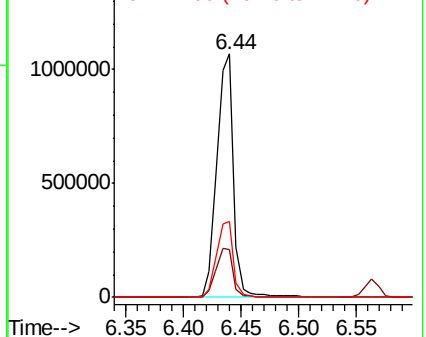
71 31.3 26.1 39.1



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



#9

Benzaldehyde

Concen: 2.650 ng

RT: 6.33 min Scan# 722

Delta R.T. -0.01 min

Lab File: BF111537.D

Acq: 17 Dec 2018 14:11

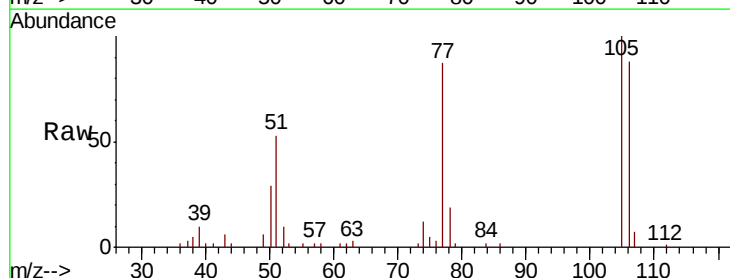
Tgt Ion: 77 Resp: 19930

Ion Ratio Lower Upper

77 100

105 115.3 81.4 121.4

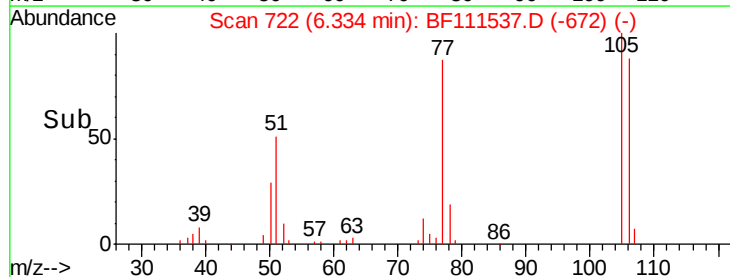
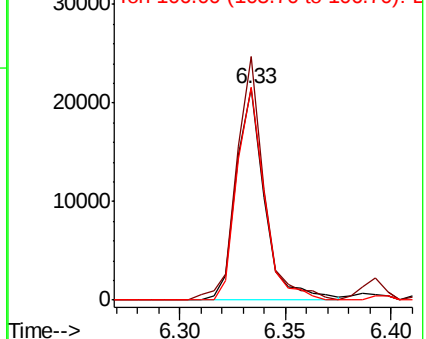
106 101.1 77.9 117.9

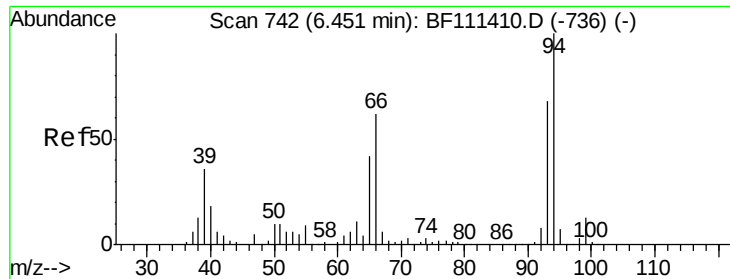


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





#10

Phenol

Concen: 4.708 ng

RT: 6.45 min Scan# 741

Delta R.T. -0.01 min

Lab File: BF111537.D

Acq: 17 Dec 2018 14:11

Instrument :

BNA\_F

ClientSampleId :

P001-SS006-1218-01

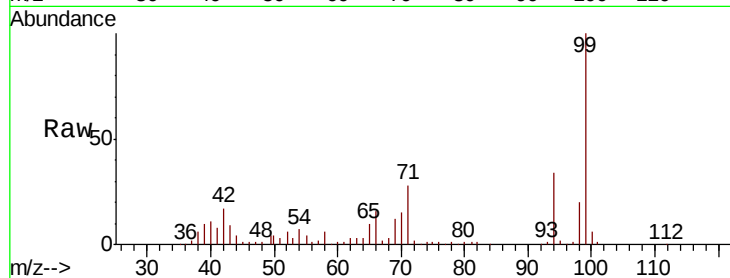
Tgt Ion: 94 Resp: 65037

Ion Ratio Lower Upper

94 100

65 29.4 11.7 51.7

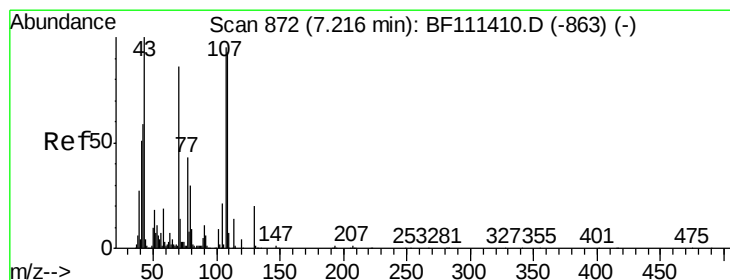
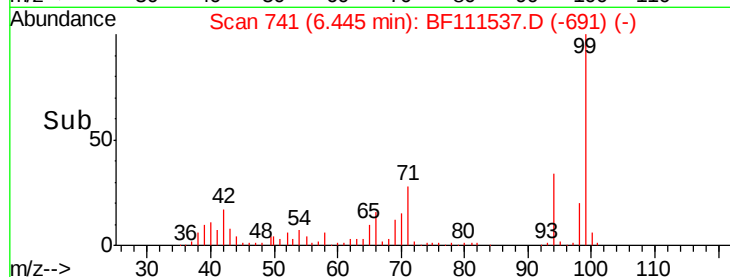
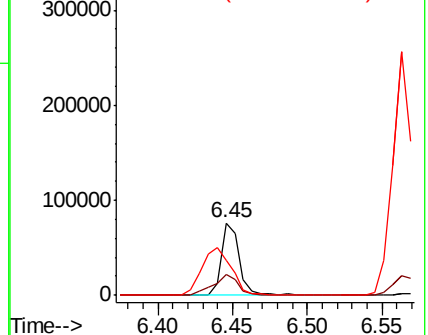
66 47.5 21.0 61.0



Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 10.301 ng

RT: 7.35 min Scan# 894

Delta R.T. 0.13 min

Lab File: BF111537.D

Acq: 17 Dec 2018 14:11

Tgt Ion: 70 Resp: 84279

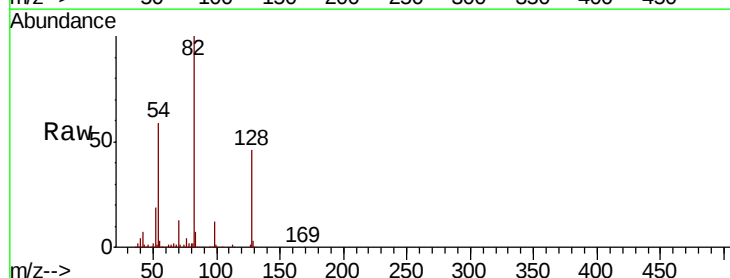
Ion Ratio Lower Upper

70 100

42 55.0 53.2 79.8

101 0.0 8.2 12.4#

130 2.5 18.1 27.1#

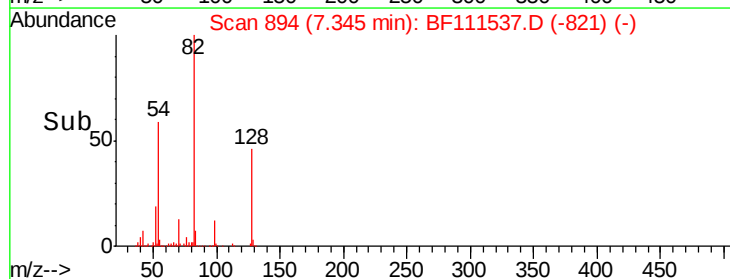
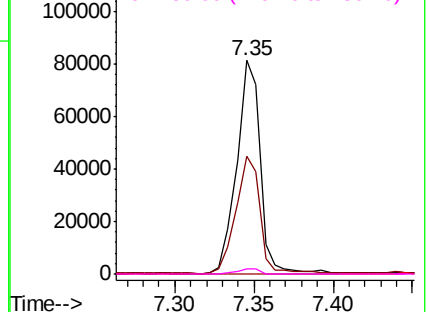


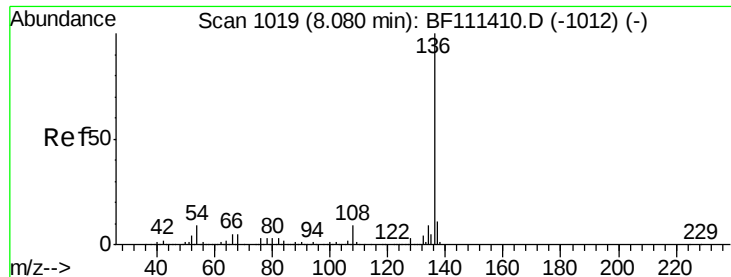
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

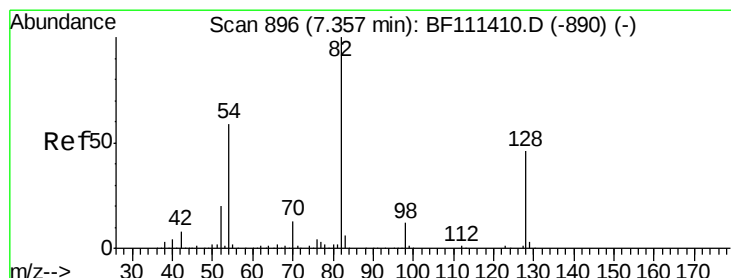
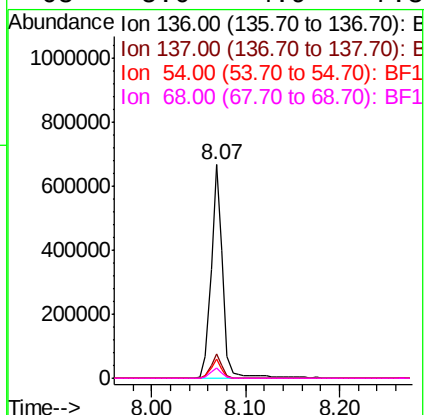
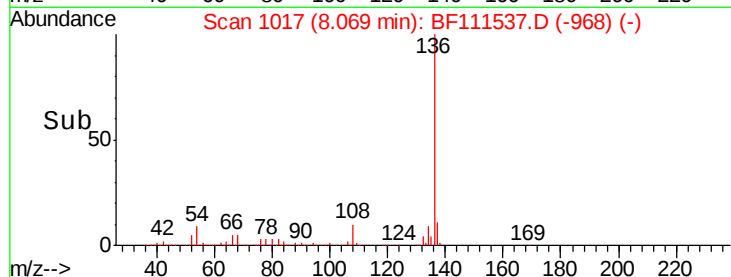
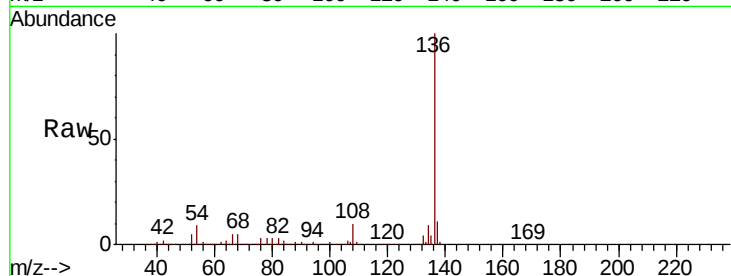




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.07 min Scan# 1017  
Delta R.T. -0.01 min  
Lab File: BF111537.D  
Acq: 17 Dec 2018 14:11

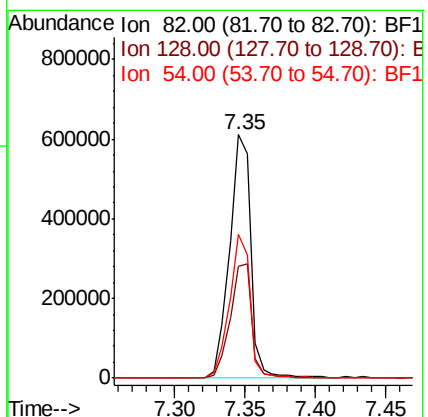
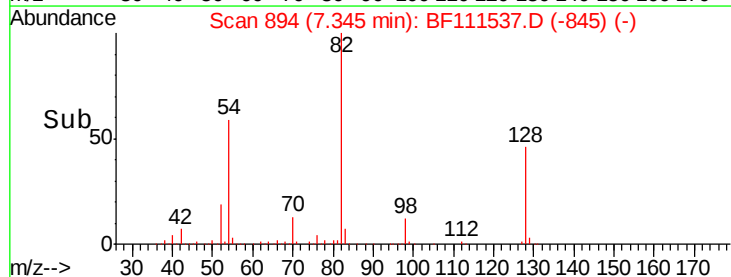
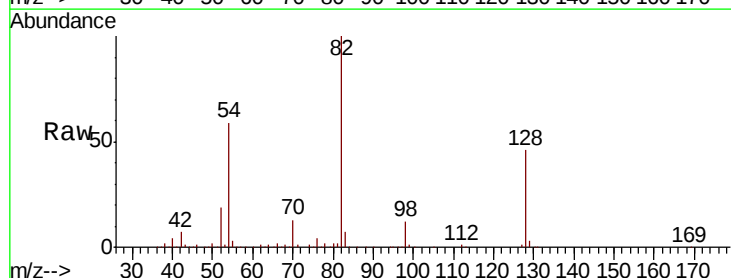
Instrument :  
BNA\_F  
ClientSampleId :  
P001-SS006-1218-01

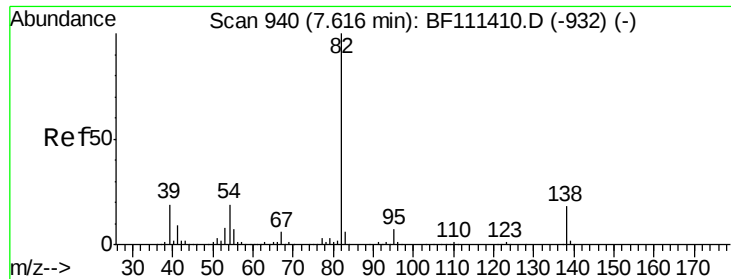
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 582813 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.3  | 9.1   | 13.7   |
| 54       | 8.9   | 7.7   | 11.5   |
| 68       | 5.0   | 4.9   | 7.3    |



#23  
Nitrobenzene-d5  
Concen: 65.903 ng  
RT: 7.35 min Scan# 894  
Delta R.T. -0.01 min  
Lab File: BF111537.D  
Acq: 17 Dec 2018 14:11

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 645000 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 46.2  | 37.4  | 56.2   |
| 54       | 59.1  | 47.6  | 71.4   |





#25

Isophorone

Concen: 38.949 ng

RT: 7.35 min Scan# 894

Delta R.T. -0.27 min

Lab File: BF111537.D

Acq: 17 Dec 2018 14:11

Instrument :

BNA\_F

ClientSampleId :

P001-SS006-1218-01

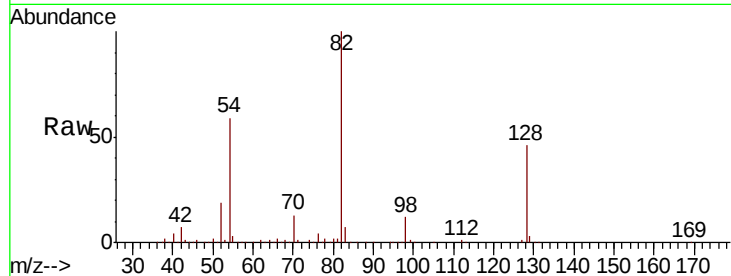
Tgt Ion: 82 Resp: 644994

Ion Ratio Lower Upper

82 100

95 0.1 5.4 8.2#

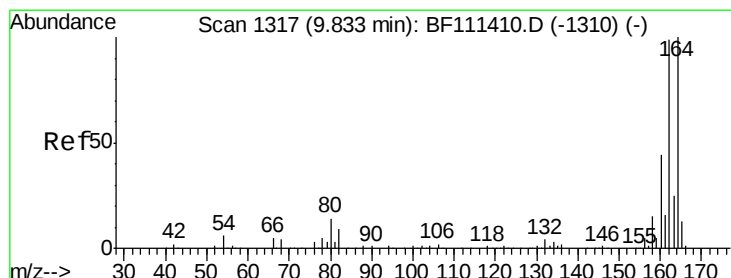
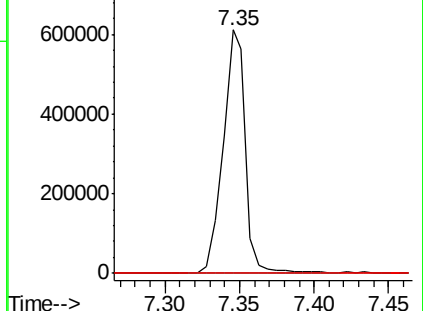
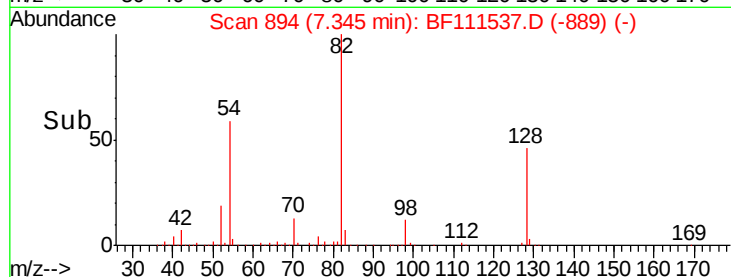
138 0.0 15.1 22.7#



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: 9.82 min Scan# 1315

Delta R.T. -0.01 min

Lab File: BF111537.D

Acq: 17 Dec 2018 14:11

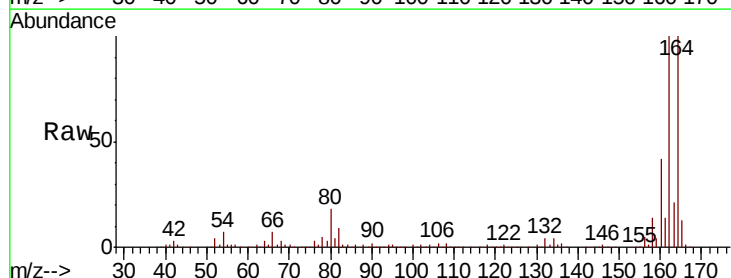
Tgt Ion: 164 Resp: 230477

Ion Ratio Lower Upper

164 100

162 100.1 81.4 122.0

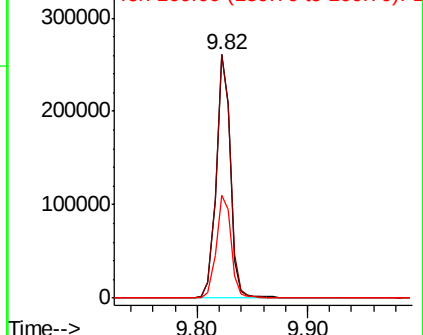
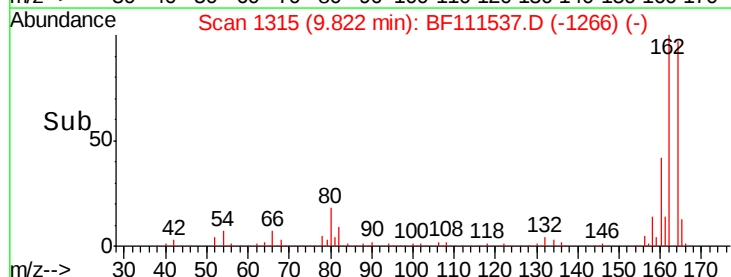
160 42.1 35.7 53.5

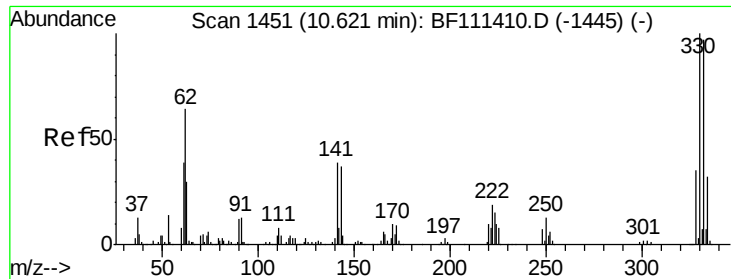


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

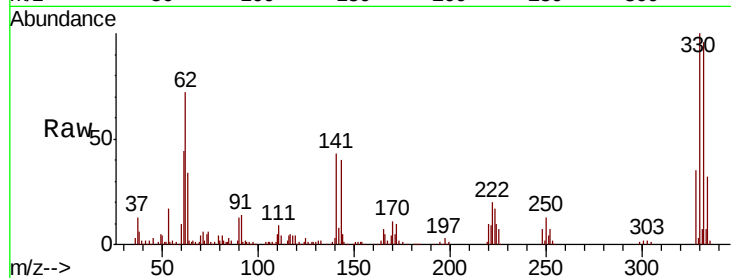




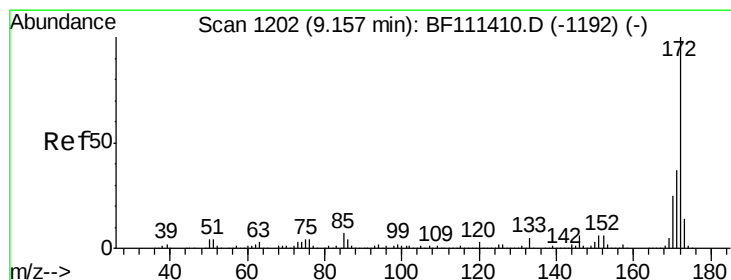
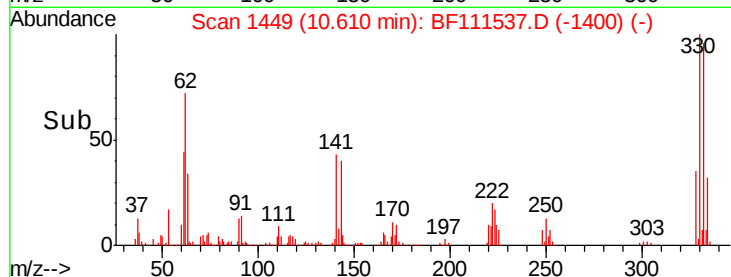
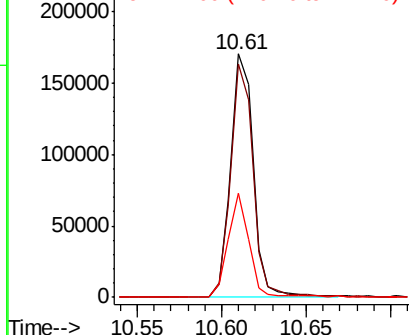
#42  
 2,4,6-Tribromophenol  
 Concen: 76.975 ng  
 RT: 10.61 min Scan# 1449  
 Delta R.T. -0.01 min  
 Lab File: BF111537.D  
 Acq: 17 Dec 2018 14:11

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P001-SS006-1218-01

Tgt Ion:330 Resp: 158922  
 Ion Ratio Lower Upper  
 330 100  
 332 95.8 76.0 114.0  
 141 38.7 31.0 46.6

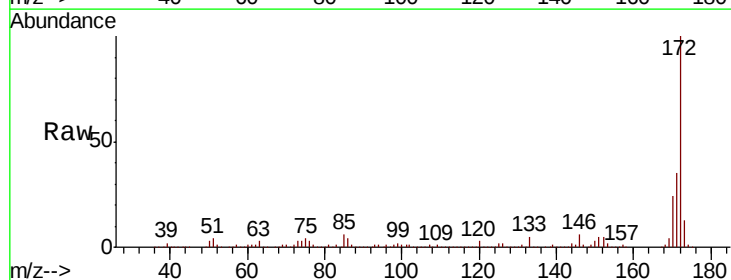


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

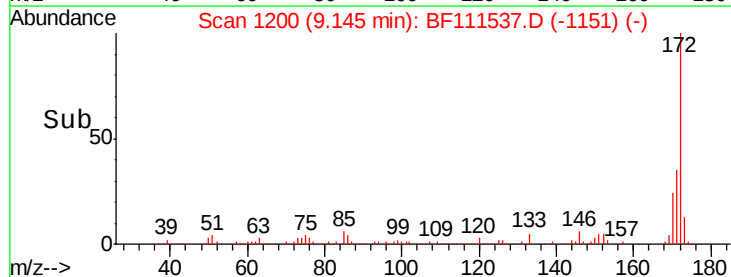
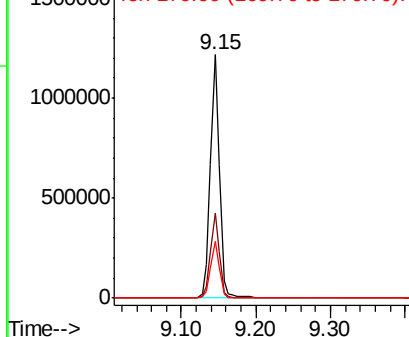


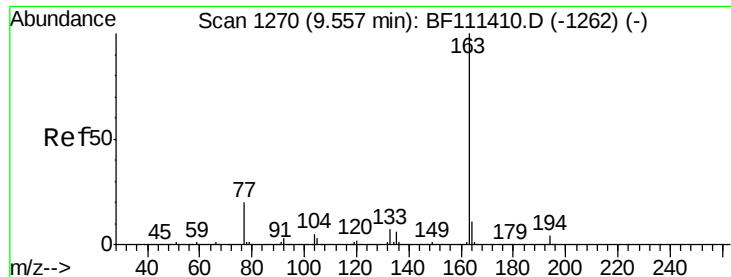
#45  
 2-Fluorobiphenyl  
 Concen: 69.507 ng  
 RT: 9.15 min Scan# 1200  
 Delta R.T. -0.01 min  
 Lab File: BF111537.D  
 Acq: 17 Dec 2018 14:11

Tgt Ion:172 Resp: 1037117  
 Ion Ratio Lower Upper  
 172 100  
 171 34.9 33.0 49.4  
 170 23.5 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

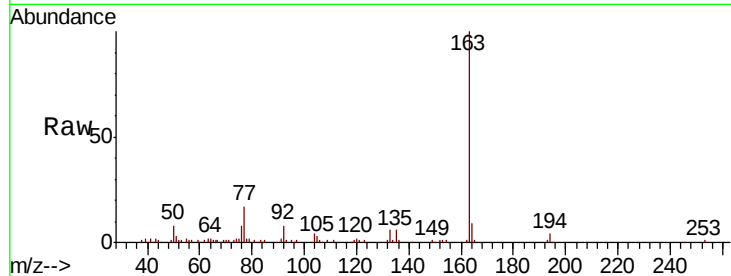




#50  
Dimethylphthalate  
Concen: 5.159 ng  
RT: 9.54 min Scan# 1267  
Delta R.T. -0.02 min  
Lab File: BF111537.D  
Acq: 17 Dec 2018 14:11

Instrument :  
BNA\_F  
ClientSampleId :  
P001-SS006-1218-01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.8   | 3.0   | 4.6   |
| 164     | 9.0   | 8.9   | 13.3  |

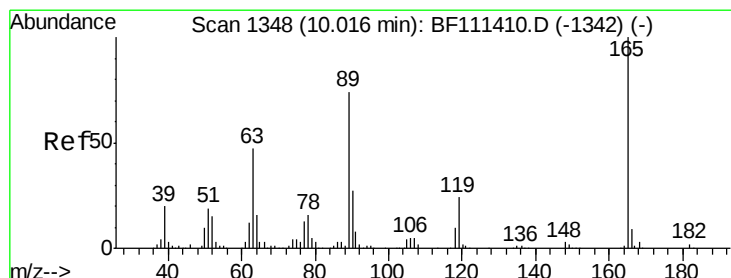
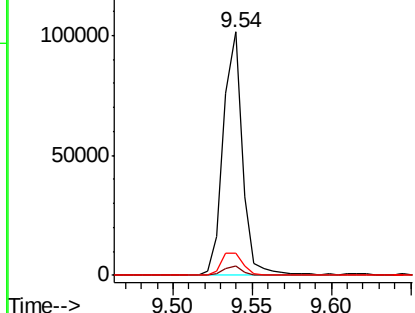
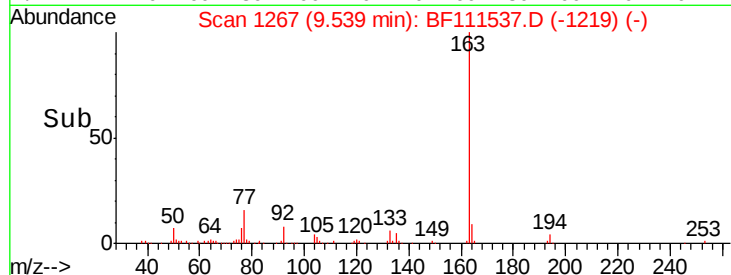


Abundance

Ion 163.00 (162.70 to 163.70): E

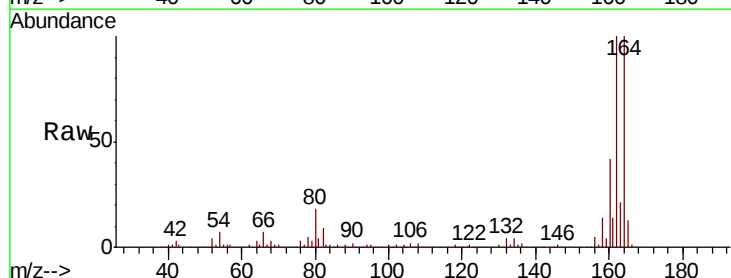
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#57  
2,4-Dinitrotoluene  
Concen: 6.210 ng  
RT: 9.82 min Scan# 1315  
Delta R.T. -0.19 min  
Lab File: BF111537.D  
Acq: 17 Dec 2018 14:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.3   | 34.6  | 52.0# |
| 89      | 1.1   | 56.2  | 84.4# |
| 182     | 0.0   | 1.8   | 2.6#  |



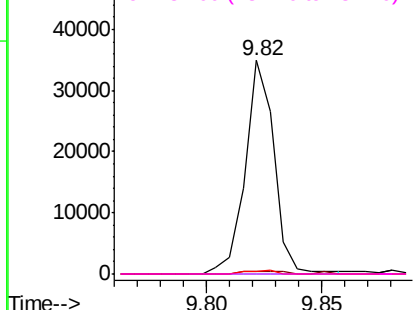
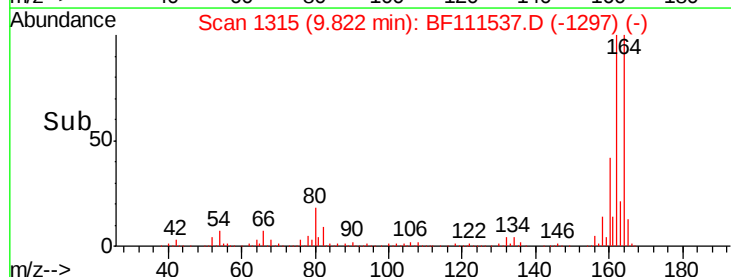
Abundance

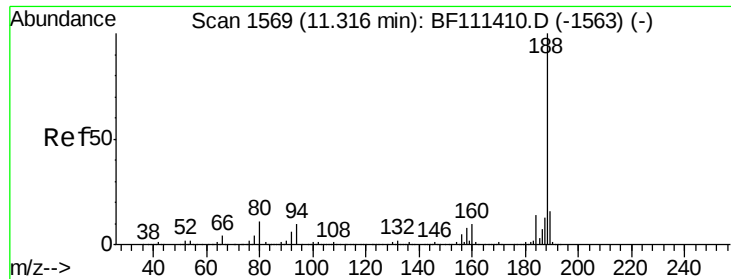
Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.31 min Scan# 1568

Delta R.T. -0.01 min

Lab File: BF111537.D

Acq: 17 Dec 2018 14:11

Instrument :

BNA\_F

ClientSampleId :

P001-SS006-1218-01

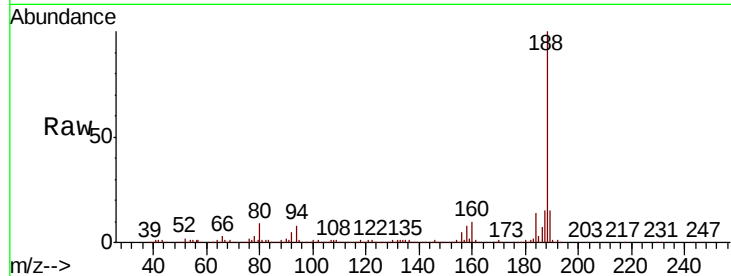
Tgt Ion:188 Resp: 305292

Ion Ratio Lower Upper

188 100

94 8.2 9.6 14.4#

80 8.9 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

11.31

300000

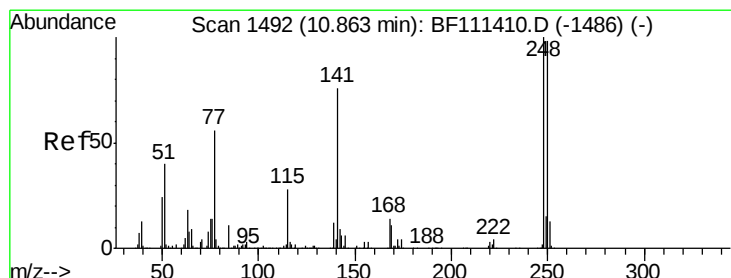
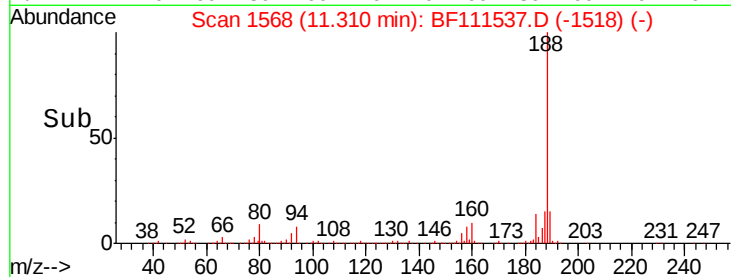
200000

100000

0

11.30 11.40

Time-->



#67

4-Bromophenyl-phenylether

Concen: 3.110 ng

RT: 10.61 min Scan# 1449

Delta R.T. -0.25 min

Lab File: BF111537.D

Acq: 17 Dec 2018 14:11

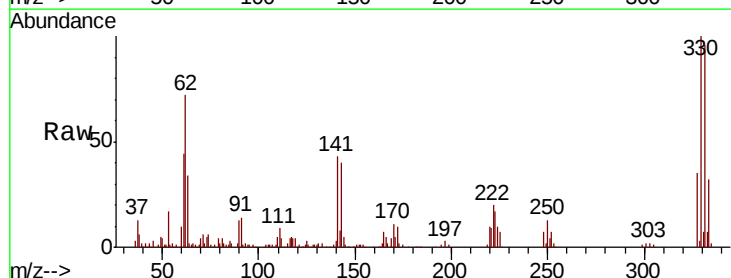
Tgt Ion:248 Resp: 10232

Ion Ratio Lower Upper

248 100

250 191.1 77.0 115.4#

141 620.3 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

100000

80000

60000

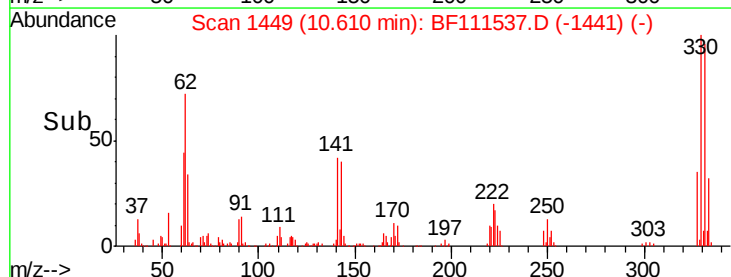
40000

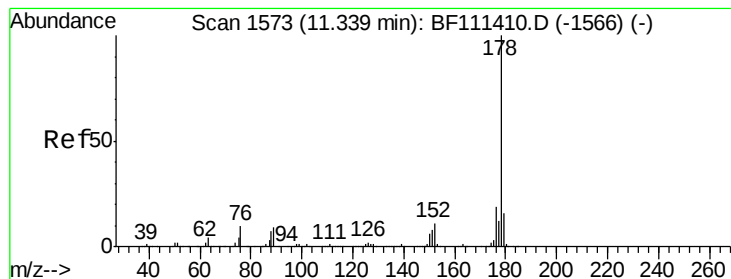
20000

0

10.60 10.65

Time-->





#71

Phenanthrene

Concen: 2.160 ng

RT: 11.33 min Scan# 1571

Delta R.T. -0.01 min

Lab File: BF111537.D

Acq: 17 Dec 2018 14:11

Instrument :

BNA\_F

ClientSampleId :

P001-SS006-1218-01

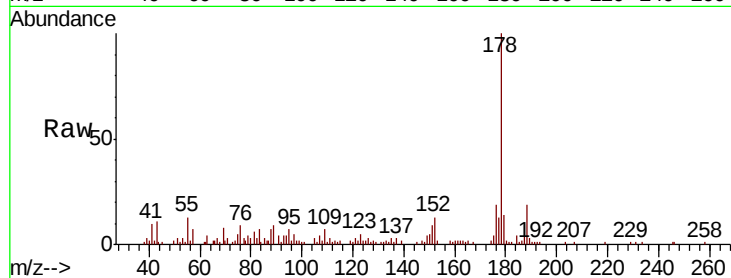
Tgt Ion:178 Resp: 33986

Ion Ratio Lower Upper

178 100

176 18.8 18.1 27.1

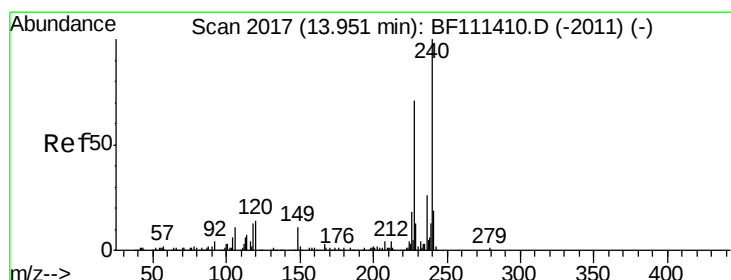
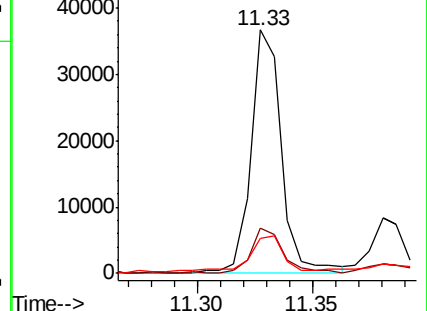
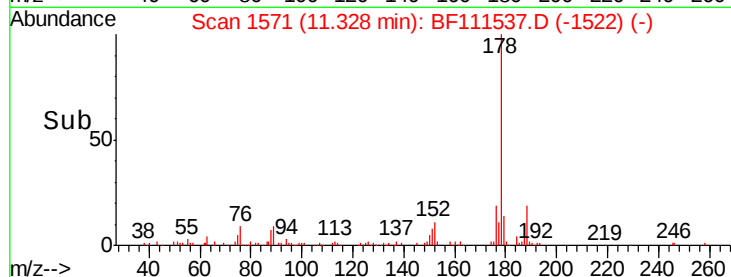
179 14.4 14.0 21.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.94 min Scan# 2016

Delta R.T. -0.01 min

Lab File: BF111537.D

Acq: 17 Dec 2018 14:11

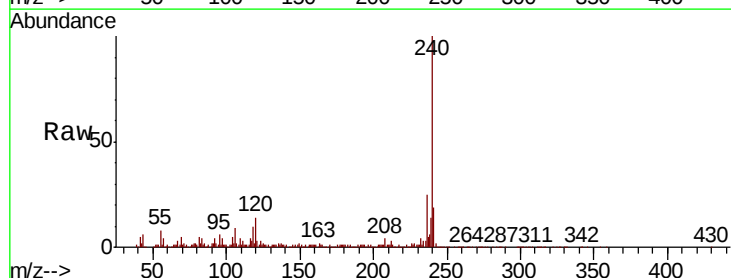
Tgt Ion:240 Resp: 293327

Ion Ratio Lower Upper

240 100

120 14.4 12.2 18.2

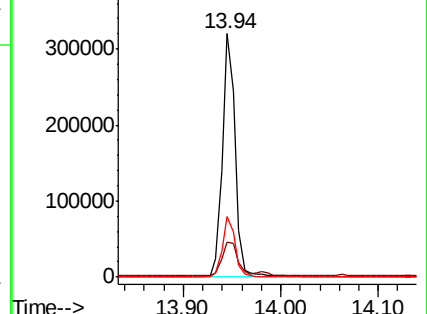
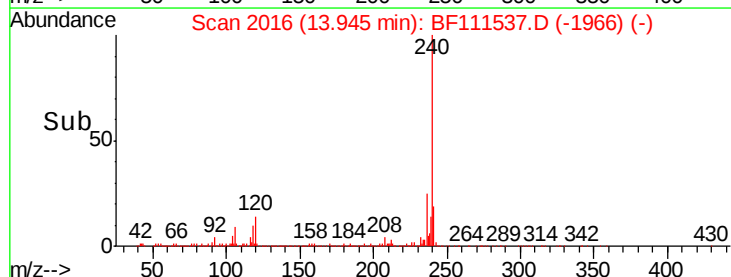
236 25.0 20.2 30.2

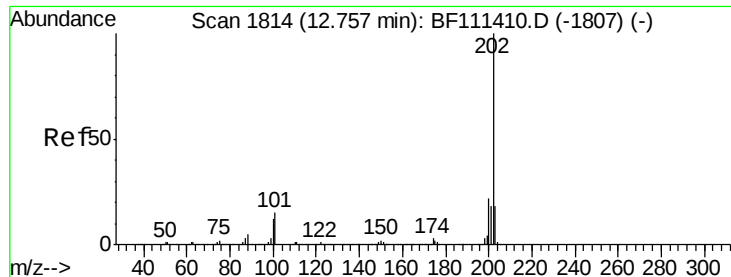


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pyrene

Concen: 2.180 ng

RT: 12.75 min Scan# 1812

Delta R.T. -0.01 min

Lab File: BF111537.D

Acq: 17 Dec 2018 14:11

Instrument :

BNA\_F

ClientSampleId :

P001-SS006-1218-01

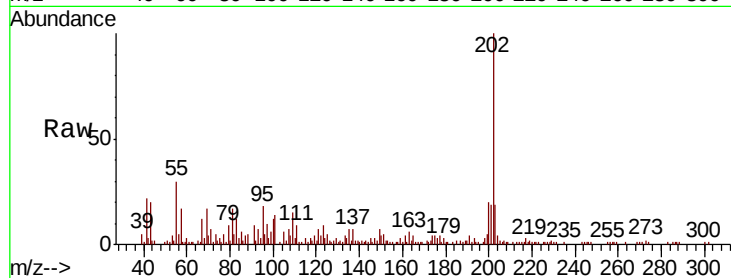
Tgt Ion:202 Resp: 45077

Ion Ratio Lower Upper

202 100

200 19.9 19.0 28.4

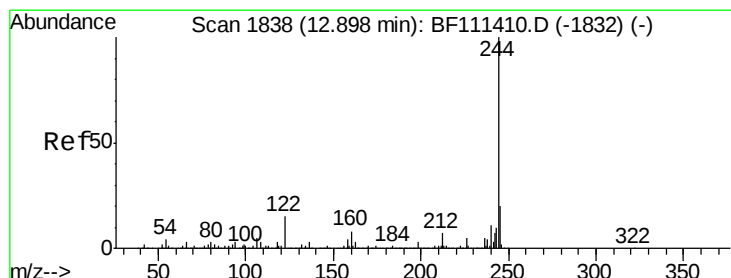
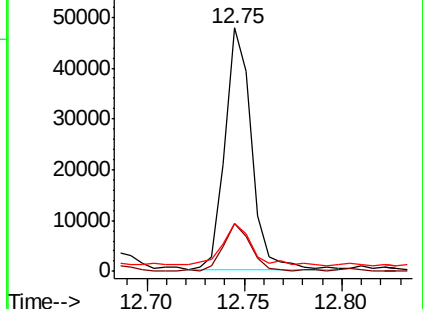
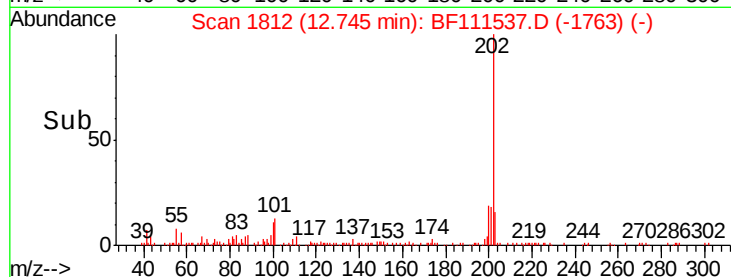
203 19.5 15.2 22.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 51.530 ng

RT: 12.89 min Scan# 1837

Delta R.T. -0.01 min

Lab File: BF111537.D

Acq: 17 Dec 2018 14:11

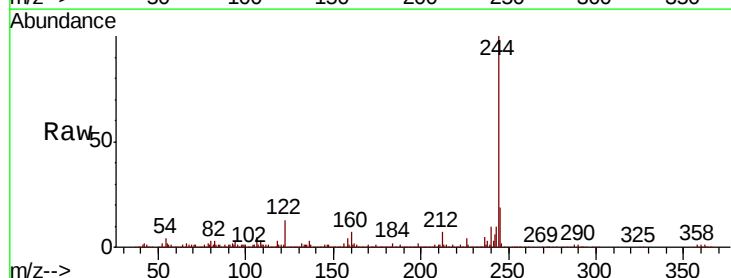
Tgt Ion:244 Resp: 643676

Ion Ratio Lower Upper

244 100

212 6.8 5.7 8.5

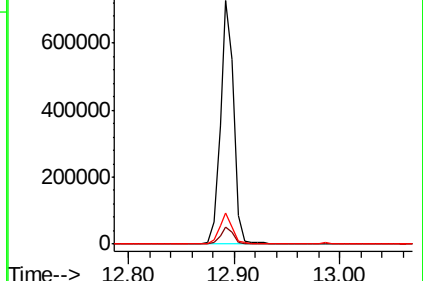
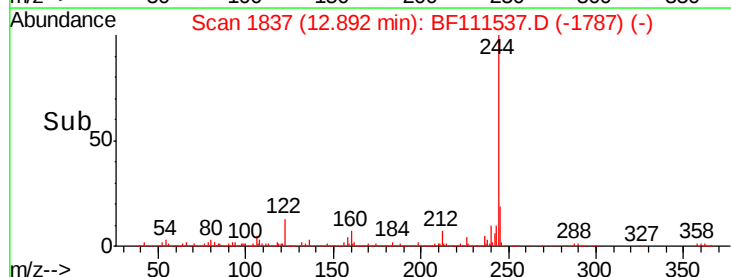
122 12.9 13.1 19.7#

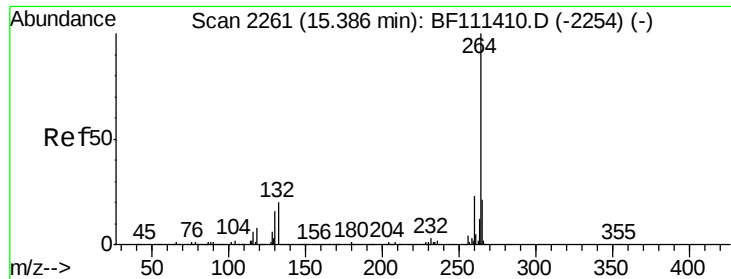


Abundance Ion 244.00 (243.70 to 244.70): E

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: 15.39 min Scan# 2262  
Delta R.T. 0.01 min  
Lab File: BF111537.D  
Acq: 17 Dec 2018 14:11

Instrument :  
BNA\_F  
ClientSampleId :  
P001-SS006-1218-01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.0  | 18.3  | 27.5  |
| 265     | 23.2  | 17.7  | 26.5  |

