

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF061418\  
 Data File : BF106461.D  
 Acq On : 14 Jun 2018 23:45  
 Operator : JU/SJ  
 Sample : J3467-10  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PR-MW-01-061218

Quant Time: Jun 15 01:14:41 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF061118.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 14 18:39:24 2018  
 Response via : Initial Calibration

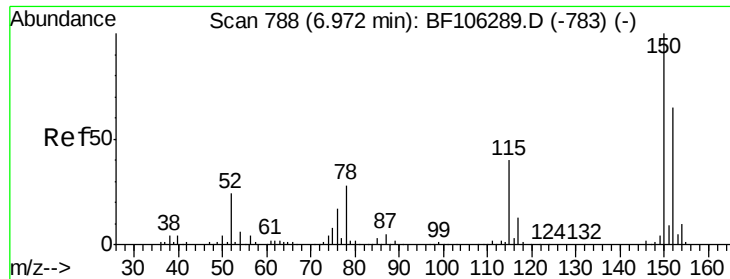
| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.97  | 152  | 120094   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.25  | 136  | 403844   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.01 | 164  | 161441   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.50 | 188  | 295034   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.15 | 240  | 285644   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.68 | 264  | 200005   | 20.00 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.61  | 112  | 335682   | 47.31  | ng    | 0.00     |
| 7) Phenol-d6                | 6.61  | 99   | 253459   | 28.27  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.53  | 82   | 517380   | 75.37  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.81 | 330  | 191985   | 123.59 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.32  | 172  | 844377   | 97.05  | ng    | 0.00     |
| 78) Terphenyl-d14           | 13.08 | 244  | 873489   | 75.95  | ng    | 0.00     |

| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 9) Benzaldehyde                | 6.75  | 77   | 14363    | 2.112  | ng    | 84     |
| 10) Phenol                     | 6.63  | 94   | 52406    | 5.355  | ng    | 99     |
| 18) Hexachloroethane           | 7.50  | 117  | 74207    | 22.852 | ng    | # 1    |
| 20) 3+4-Methylphenols          | 7.38  | 107  | 94228    | 10.823 | ng    | 88     |
| 22) Acetophenone               | 7.35  | 105  | 223861   | 21.996 | ng    | # 58   |
| 24) Nitrobenzene               | 7.54  | 77   | 17958    | 2.407  | ng    | # 13   |
| 31) Naphthalene                | 8.28  | 128  | 910853   | 49.894 | ng    | 99     |
| 32) Benzoic acid               | 8.04  | 122  | 9302     | 9.173  | ng    | # 37   |
| 33) 4-Chloroaniline            | 8.27  | 127  | 137978   | 17.055 | ng    | # 35   |
| 37) 2-Methylnaphthalene        | 8.97  | 142  | 472813   | 38.025 | ng    | 97     |
| 45) 1,1'-Biphenyl              | 9.42  | 154  | 41678    | 3.333  | ng    | 93     |
| 49) Dimethylphthalate          | 9.72  | 163  | 83696    | 7.256  | ng    | # 93   |
| 53) 2,4-Dinitrophenol          | 10.18 | 184  | 460      | 8.993  | ng    | # 1    |
| 64) 4,6-Dinitro-2-methylphenol | 10.51 | 198  | 277      | 6.446  | ng    | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.80 | 248  | 12589    | 3.752  | ng    | # 1    |

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

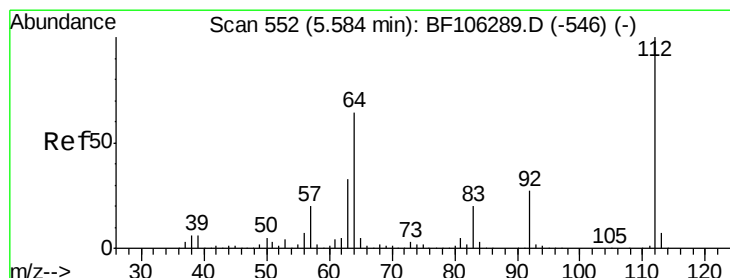
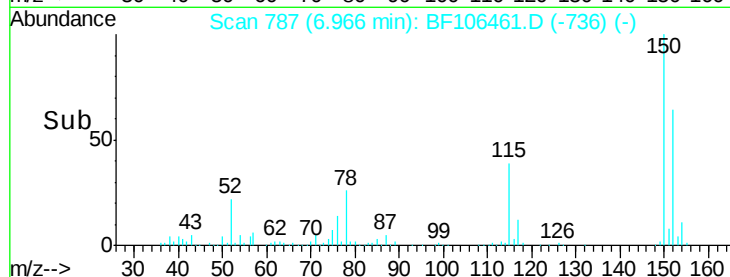
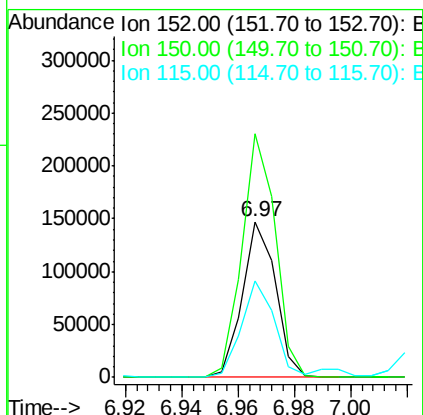
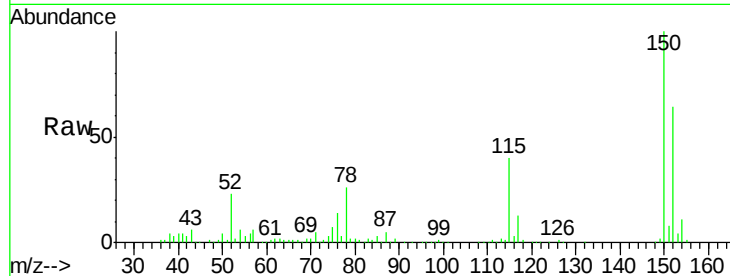




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.97 min Scan# 787  
 Delta R.T. 0.00 min  
 Lab File: BF106461.D  
 Acq: 14 Jun 2018 23:45

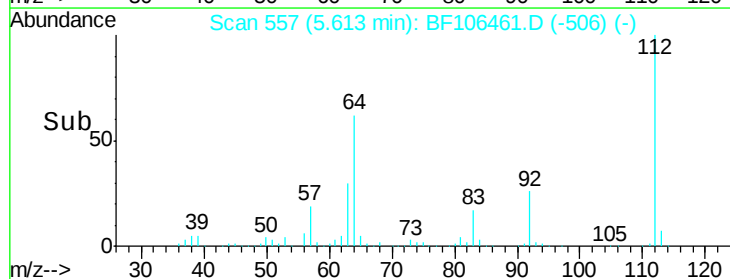
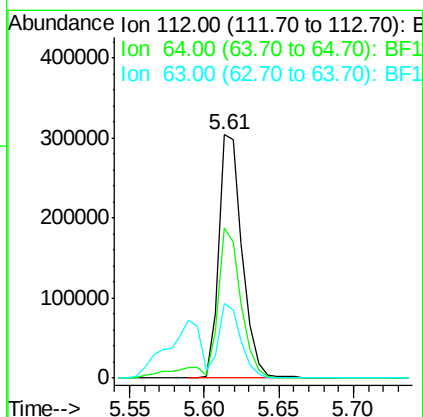
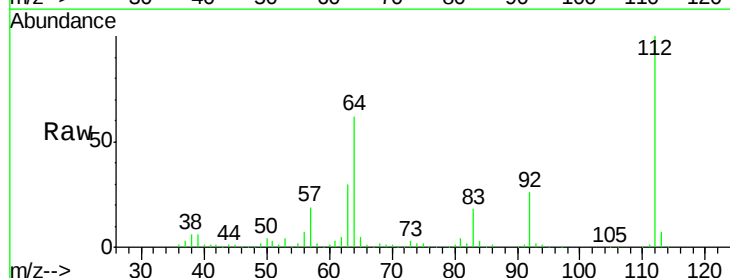
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PR-MW-01-061218

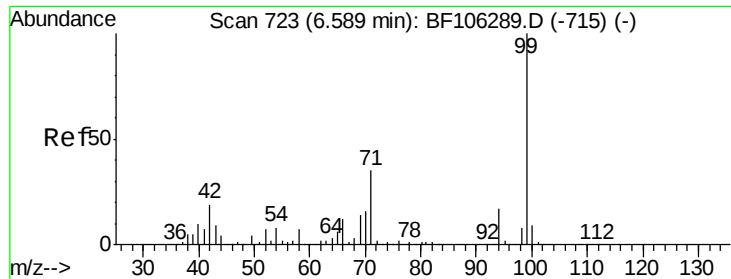
Tgt Ion:152 Resp: 120094  
 Ion Ratio Lower Upper  
 152 100  
 150 156.8 124.6 186.8  
 115 62.1 50.1 75.1



#5  
 2-Fluorophenol  
 Concen: 47.308 ng  
 RT: 5.61 min Scan# 557  
 Delta R.T. -0.00 min  
 Lab File: BF106461.D  
 Acq: 14 Jun 2018 23:45

Tgt Ion:112 Resp: 335682  
 Ion Ratio Lower Upper  
 112 100  
 64 61.7 47.9 71.9  
 63 30.5 23.7 35.5





#7

Phenol-d6

Concen: 28.273 ng

RT: 6.61 min Scan# 727

Delta R.T. -0.00 min

Lab File: BF106461.D

Acq: 14 Jun 2018 23:45

Instrument :

BNA\_F

ClientSampleId :

PR-MW-01-061218

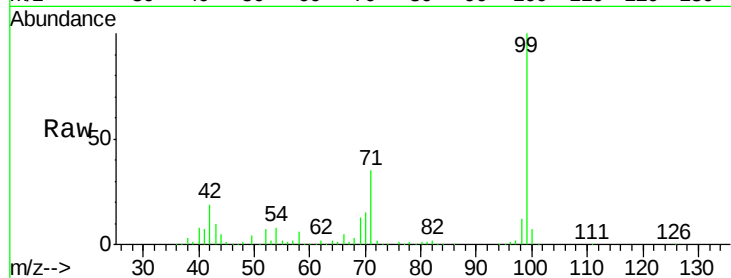
Tgt Ion: 99 Resp: 253459

Ion Ratio Lower Upper

99 100

42 18.6 14.5 21.7

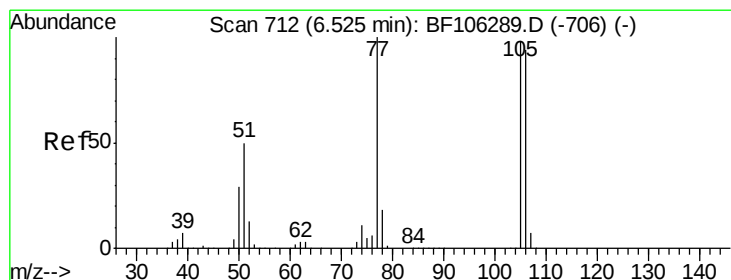
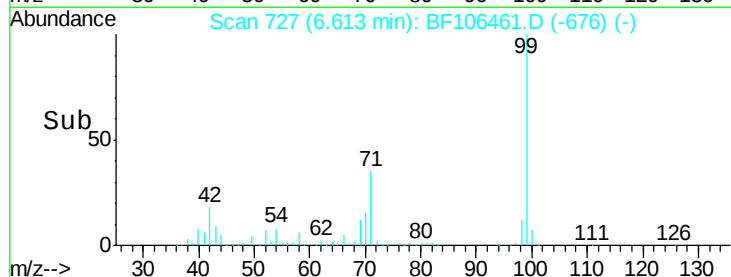
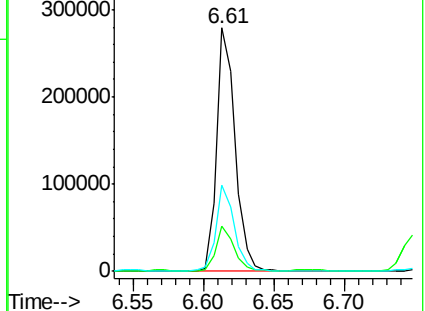
71 35.2 25.4 38.0



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



#9

Benzaldehyde

Concen: 2.112 ng

RT: 6.75 min Scan# 750

Delta R.T. 0.22 min

Lab File: BF106461.D

Acq: 14 Jun 2018 23:45

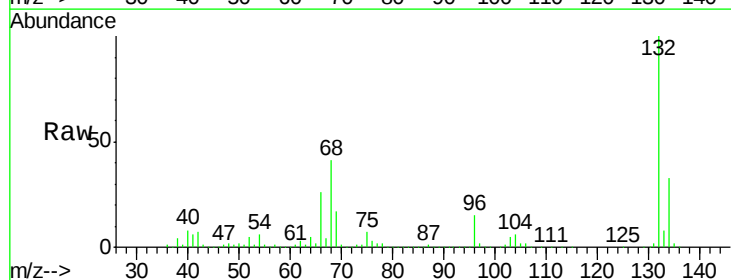
Tgt Ion: 77 Resp: 14363

Ion Ratio Lower Upper

77 100

105 85.2 81.1 121.1

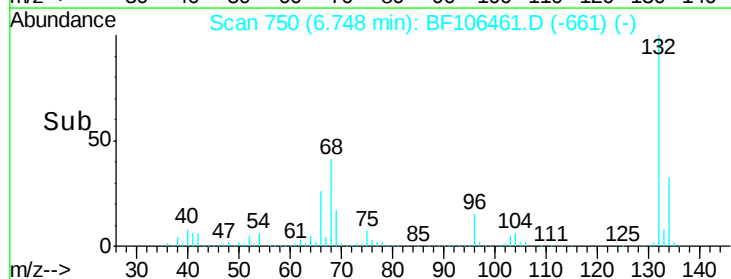
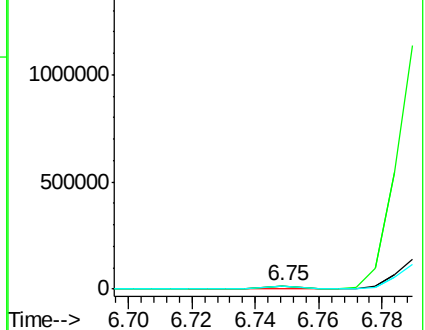
106 78.4 74.5 114.5

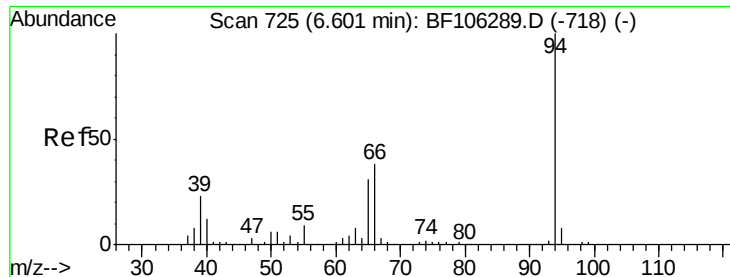


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 106.00 (105.70 to 106.70): BF1

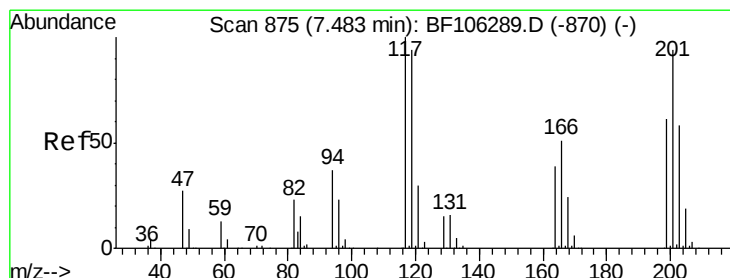
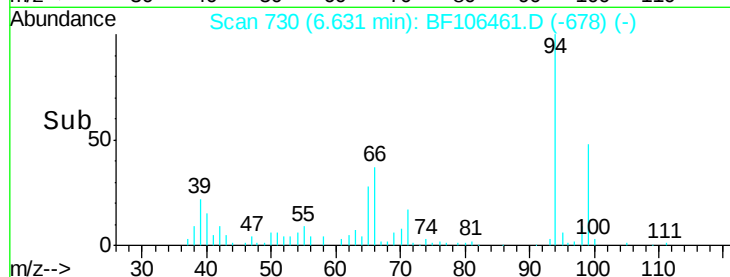
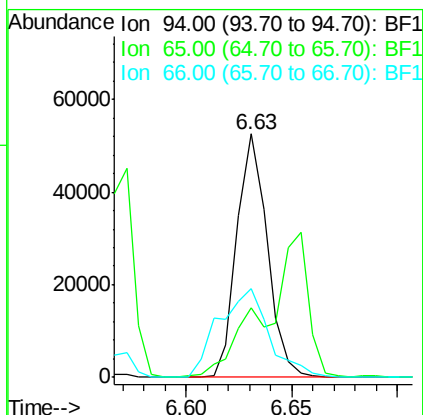
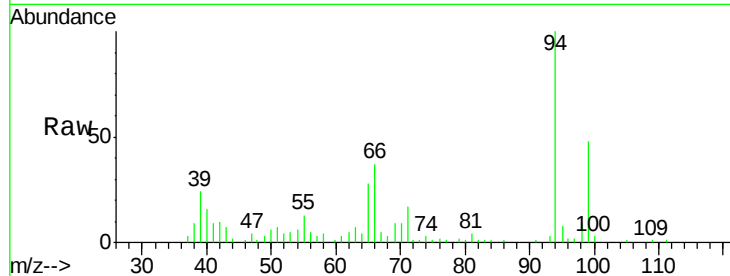




#10  
Phenol  
Concen: 5.355 ng  
RT: 6.63 min Scan# 730  
Delta R.T. 0.01 min  
Lab File: BF106461.D  
Acq: 14 Jun 2018 23:45

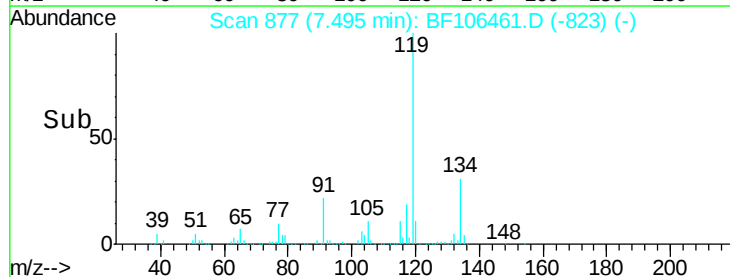
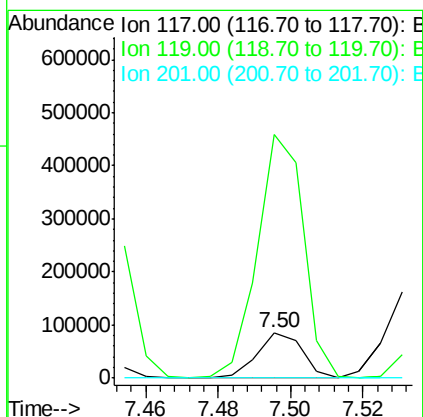
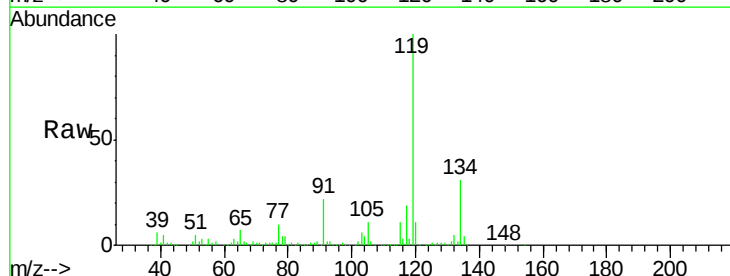
Instrument :  
BNA\_F  
ClientSampleId :  
PR-MW-01-061218

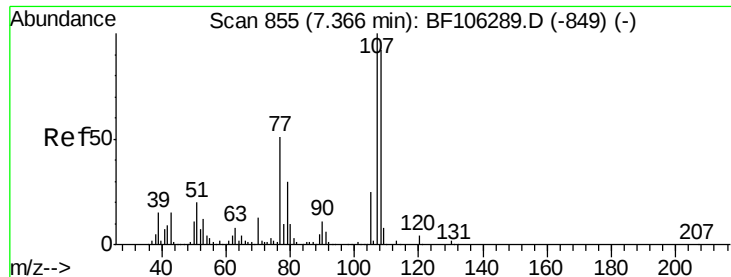
Tgt Ion: 94 Resp: 52406  
Ion Ratio Lower Upper  
94 100  
65 28.4 7.9 47.9  
66 36.7 16.2 56.2



#18  
Hexachloroethane  
Concen: 22.852 ng  
RT: 7.50 min Scan# 877  
Delta R.T. 0.02 min  
Lab File: BF106461.D  
Acq: 14 Jun 2018 23:45

Tgt Ion: 117 Resp: 74207  
Ion Ratio Lower Upper  
117 100  
119 535.6 75.8 113.8#  
201 0.0 75.7 113.5#

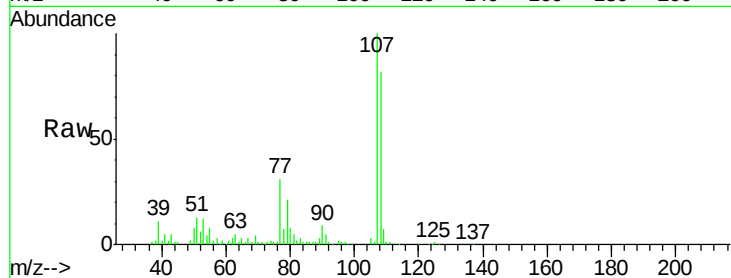




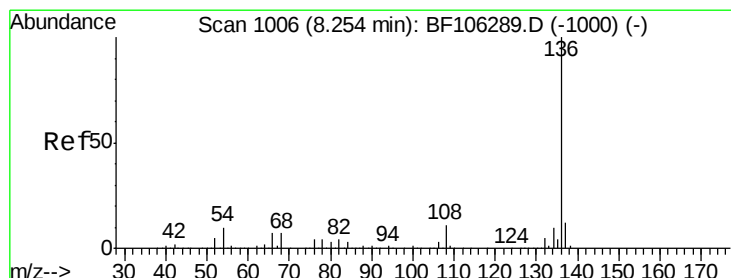
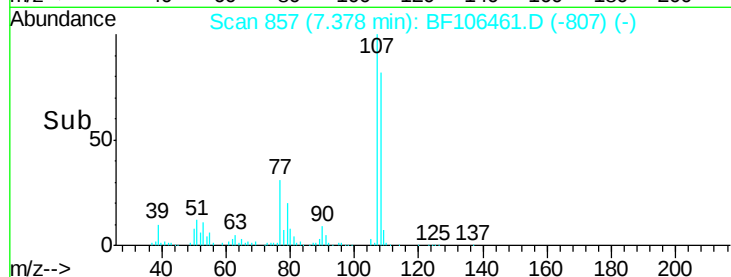
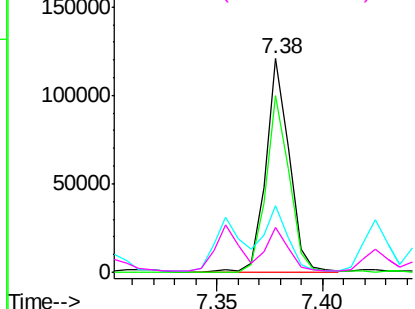
#20  
3+4-Methylphenols  
Concen: 10.823 ng  
RT: 7.38 min Scan# 857  
Delta R.T. -0.01 min  
Lab File: BF106461.D  
Acq: 14 Jun 2018 23:45

Instrument :  
BNA\_F  
ClientSampleId :  
PR-MW-01-061218

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 107   | Resp: | 94228 |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 108      | 82.5  | 68.2  | 108.2 |
| 77       | 31.5  | 26.7  | 66.7  |
| 79       | 20.9  | 6.3   | 46.3  |

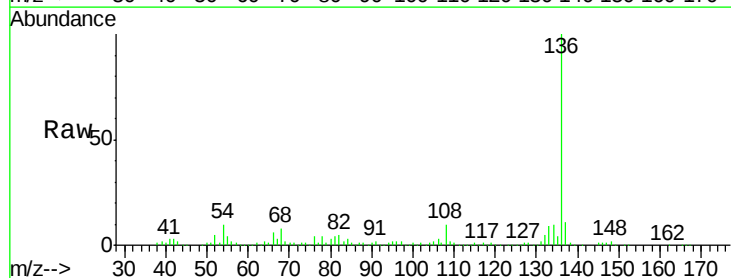


Abundance Ion 107.00 (106.70 to 107.70): E  
Ion 108.00 (107.70 to 108.70): E  
Ion 77.00 (76.70 to 77.70): BF1  
Ion 79.00 (78.70 to 79.70): BF1

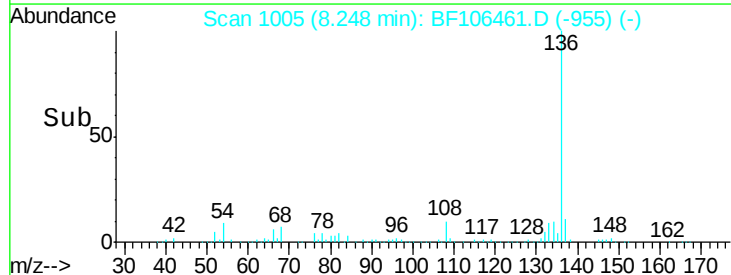
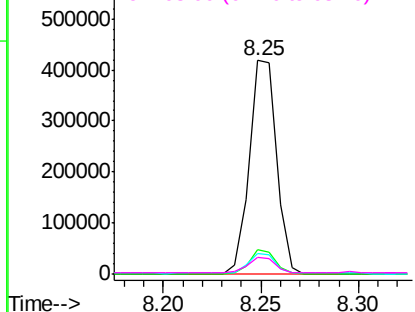


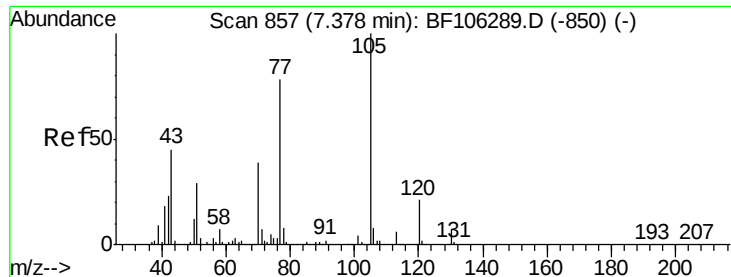
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.25 min Scan# 1005  
Delta R.T. -0.01 min  
Lab File: BF106461.D  
Acq: 14 Jun 2018 23:45

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 403844 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.5  | 8.9   | 13.3   |
| 54       | 9.7   | 6.6   | 9.8    |
| 68       | 7.7   | 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





#22

Acetophenone

Concen: 21.996 ng

RT: 7.35 min Scan# 853

Delta R.T. -0.02 min

Lab File: BF106461.D

Acq: 14 Jun 2018 23:45

Instrument :

BNA\_F

ClientSampleId :

PR-MW-01-061218

Tgt Ion: 105 Resp: 223861

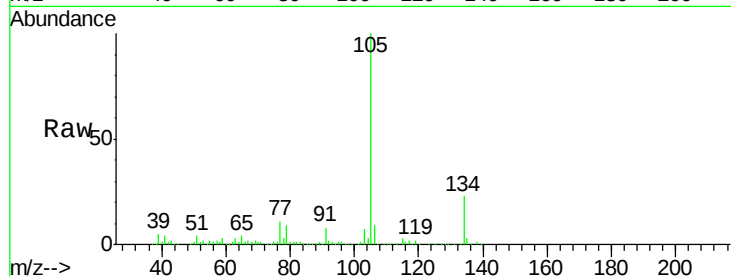
Ion Ratio Lower Upper

105 100

71 0.6 4.4 6.6#

51 4.0 22.3 33.5#

120 0.3 16.9 25.3#

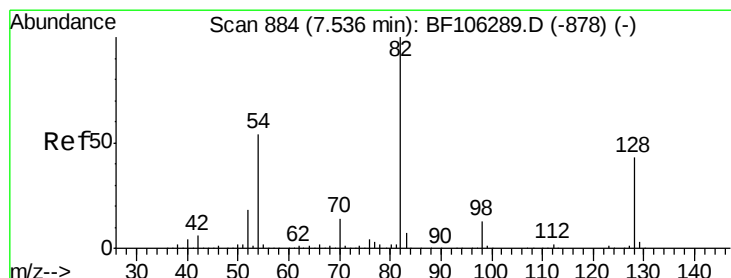
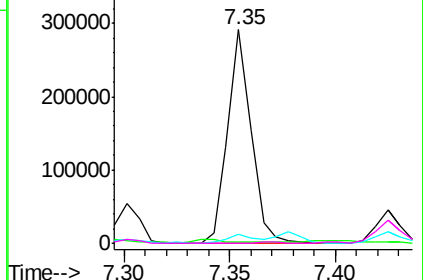
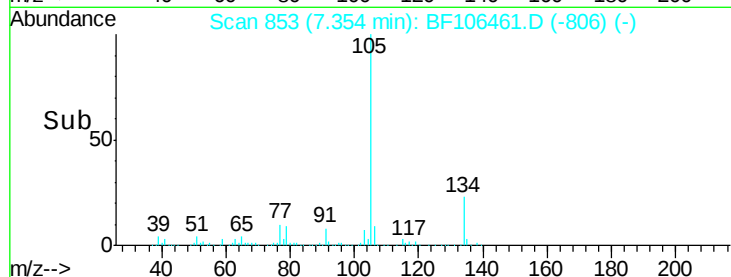


Abundance Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BF1

Ion 51.00 (50.70 to 51.70): BF1

Ion 120.00 (119.70 to 120.70): E



#23

Nitrobenzene-d5

Concen: 75.367 ng

RT: 7.53 min Scan# 883

Delta R.T. -0.01 min

Lab File: BF106461.D

Acq: 14 Jun 2018 23:45

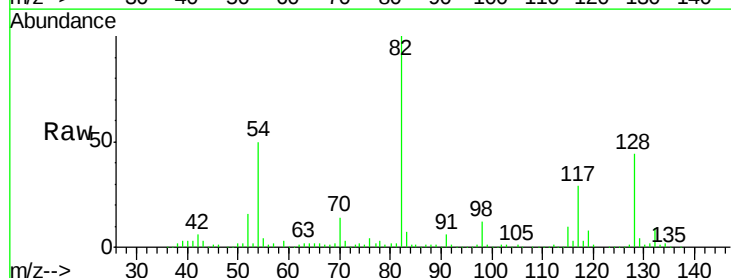
Tgt Ion: 82 Resp: 517380

Ion Ratio Lower Upper

82 100

128 43.6 36.1 54.1

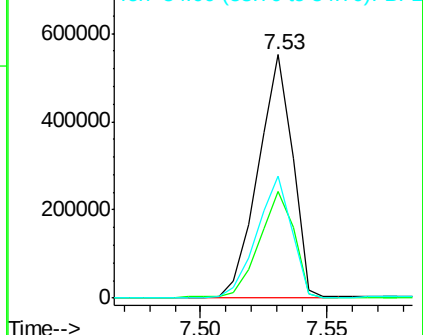
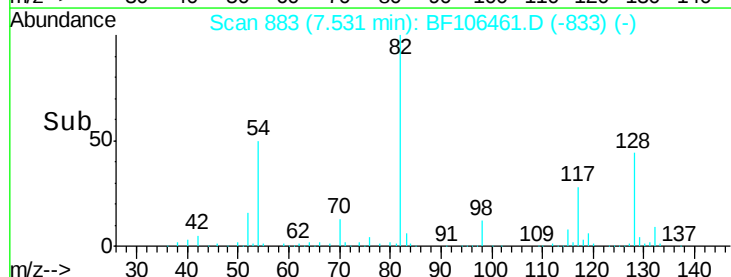
54 50.1 41.4 62.2

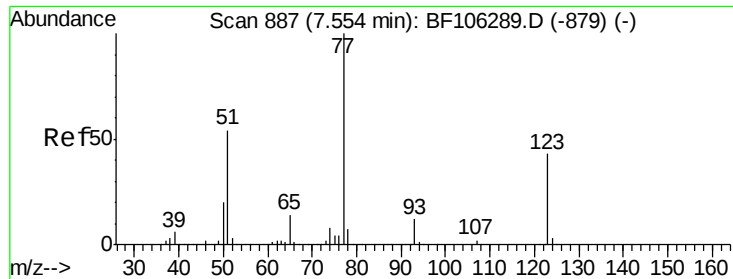


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1

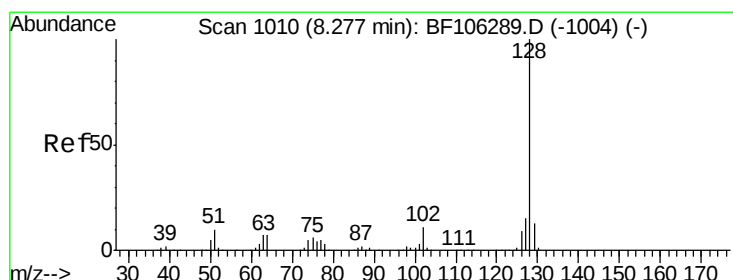
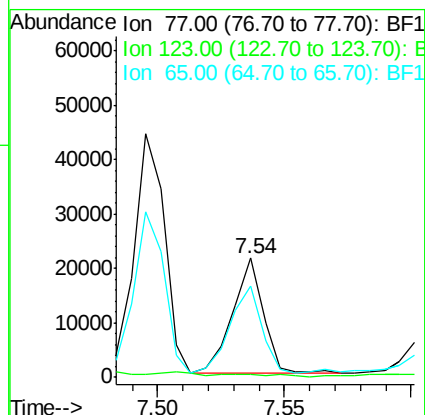
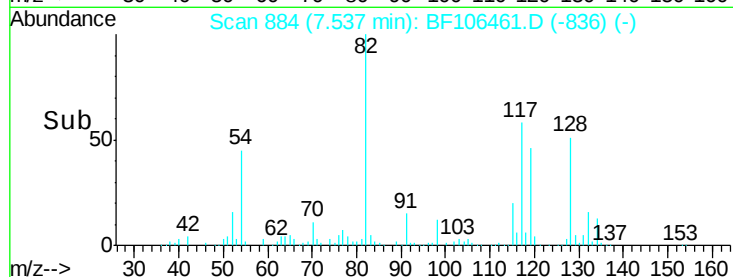
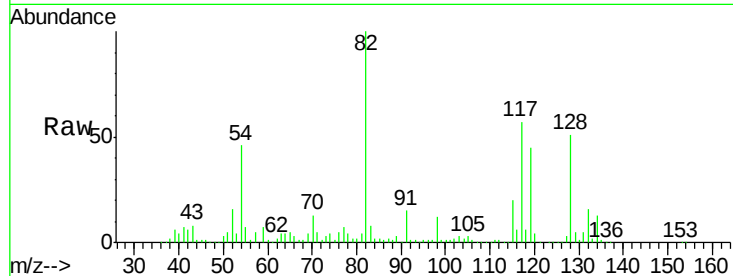




#24  
Nitrobenzene  
Concen: 2.407 ng  
RT: 7.54 min Scan# 884  
Delta R.T. -0.02 min  
Lab File: BF106461.D  
Acq: 14 Jun 2018 23:45

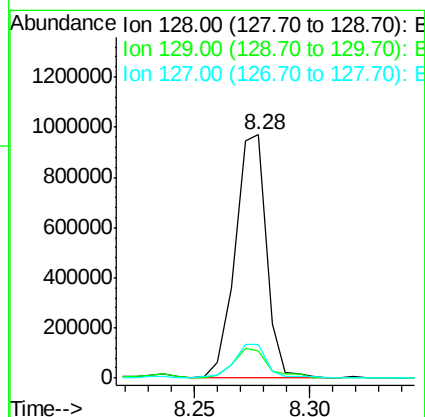
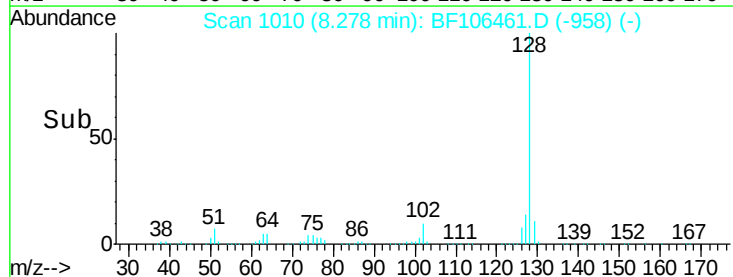
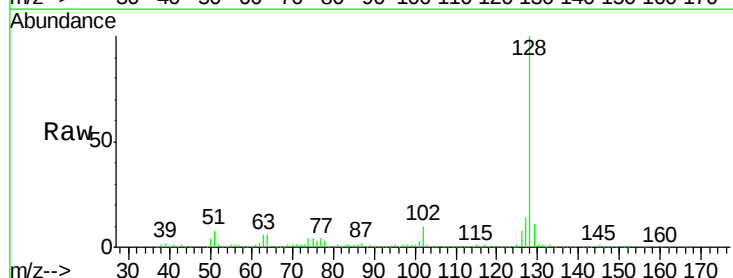
Instrument :  
BNA\_F  
ClientSampleId :  
PR-MW-01-061218

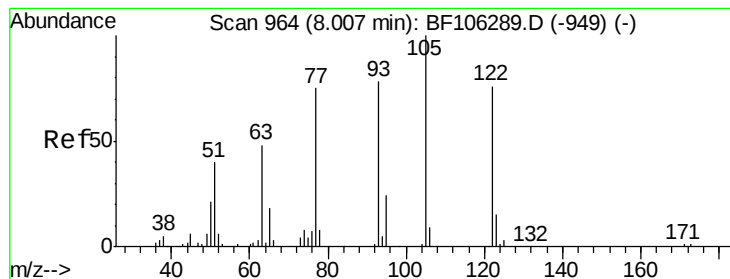
Tgt Ion: 77 Resp: 17958  
Ion Ratio Lower Upper  
77 100  
123 2.0 37.9 56.9#  
65 76.5 11.0 16.4#



#31  
Naphthalene  
Concen: 49.894 ng  
RT: 8.28 min Scan# 1010  
Delta R.T. 0.01 min  
Lab File: BF106461.D  
Acq: 14 Jun 2018 23:45

Tgt Ion: 128 Resp: 910853  
Ion Ratio Lower Upper  
128 100  
129 11.4 8.8 13.2  
127 13.8 10.9 16.3





#32

Benzoic acid

Concen: 9.173 ng

RT: 8.04 min Scan# 969

Delta R.T. 0.01 min

Lab File: BF106461.D

Acq: 14 Jun 2018 23:45

Instrument :

BNA\_F

ClientSampleId :

PR-MW-01-061218

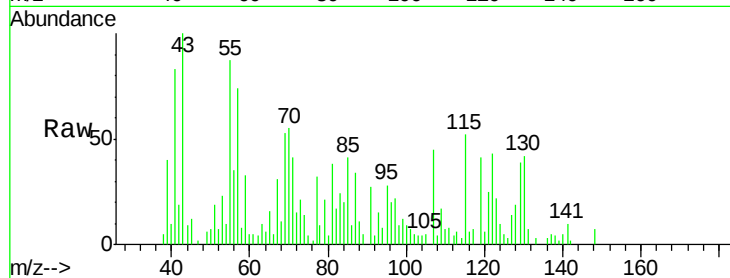
Tgt Ion:122 Resp: 9302

Ion Ratio Lower Upper

122 100

105 12.4 101.1 141.1#

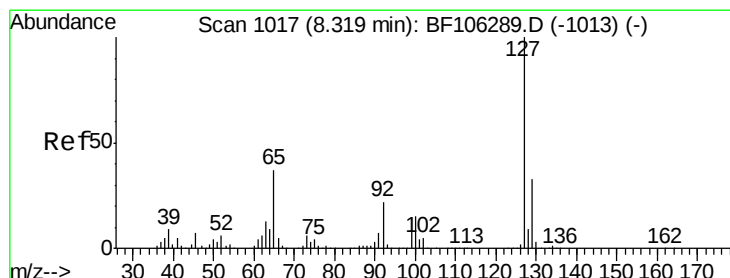
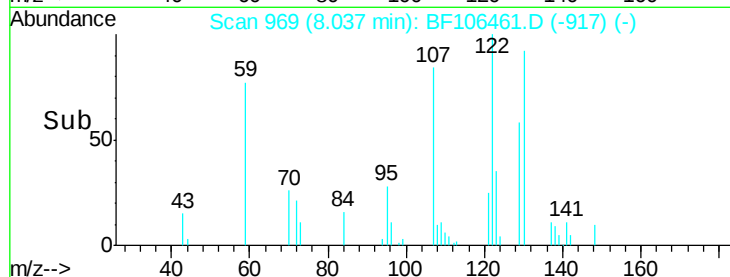
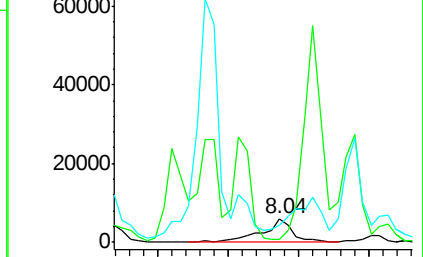
77 74.0 70.7 110.7



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1



#33

4-Chloroaniline

Concen: 17.055 ng

RT: 8.27 min Scan# 1009

Delta R.T. -0.05 min

Lab File: BF106461.D

Acq: 14 Jun 2018 23:45

Tgt Ion:127 Resp: 137978

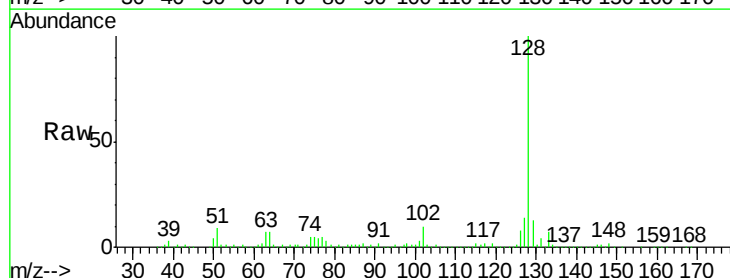
Ion Ratio Lower Upper

127 100

129 88.0 25.9 38.9#

65 5.5 25.0 37.4#

92 1.4 15.2 22.8#

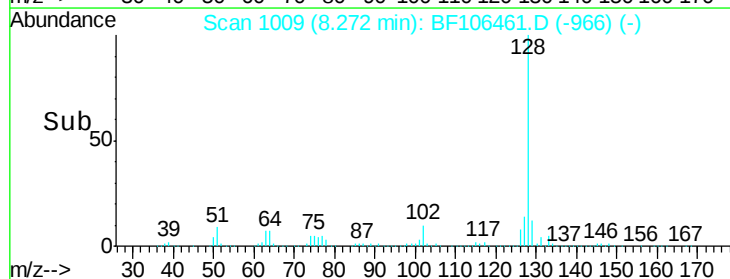
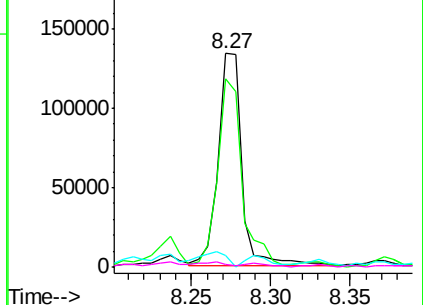


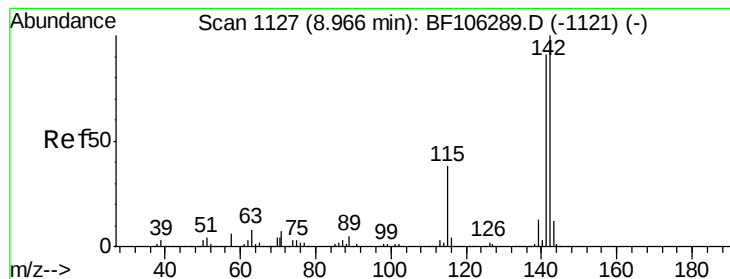
Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF1

Ion 92.00 (91.70 to 92.70): BF1





#37

2-Methylnaphthalene

Concen: 38.025 ng

RT: 8.97 min Scan# 1127

Delta R.T. 0.00 min

Lab File: BF106461.D

Acq: 14 Jun 2018 23:45

Instrument :

BNA\_F

ClientSampleId :

PR-MW-01-061218

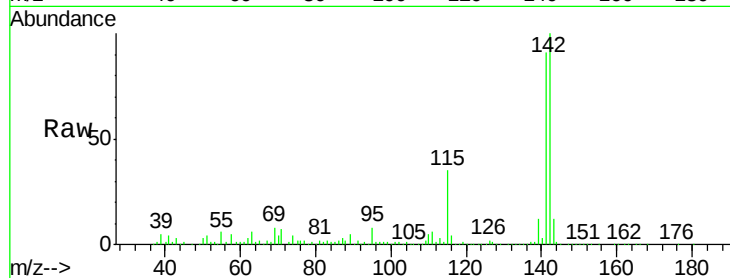
Tgt Ion:142 Resp: 472813

Ion Ratio Lower Upper

142 100

141 90.7 70.8 106.2

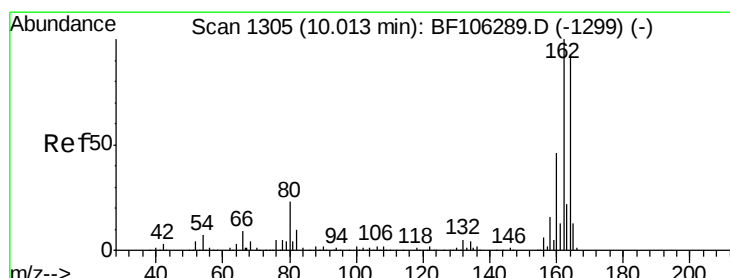
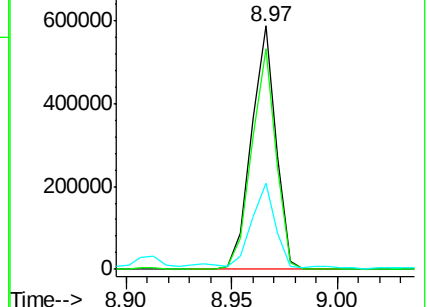
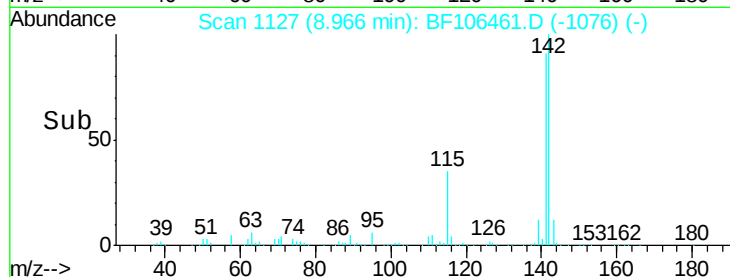
115 35.3 26.1 39.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.01 min Scan# 1304

Delta R.T. -0.01 min

Lab File: BF106461.D

Acq: 14 Jun 2018 23:45

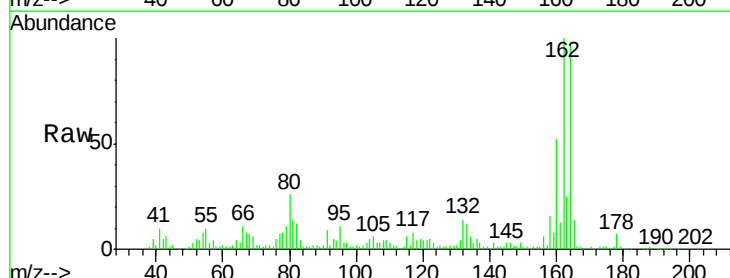
Tgt Ion:164 Resp: 161441

Ion Ratio Lower Upper

164 100

162 102.3 86.1 129.1

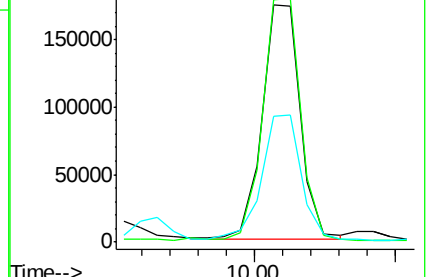
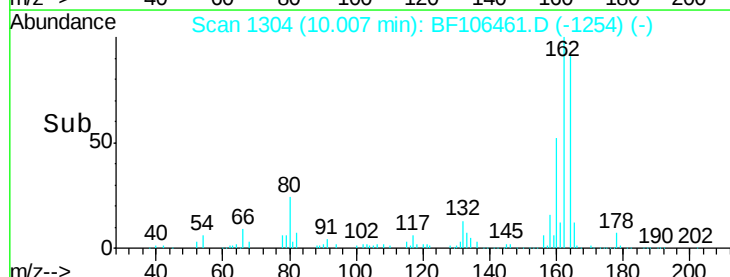
160 53.0 38.3 57.5

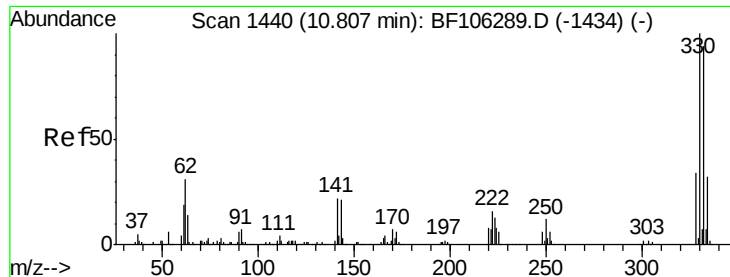


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

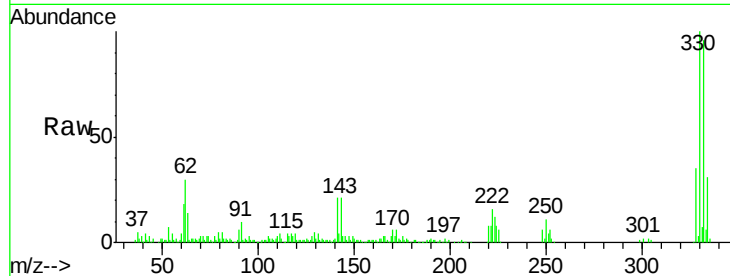




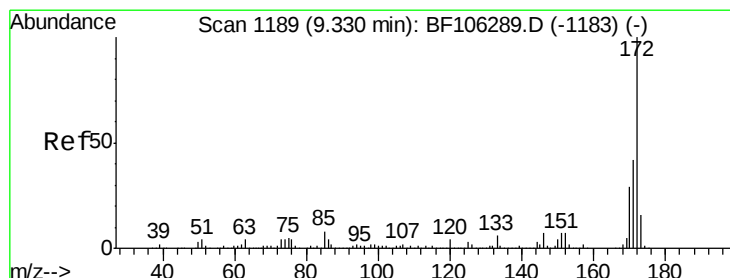
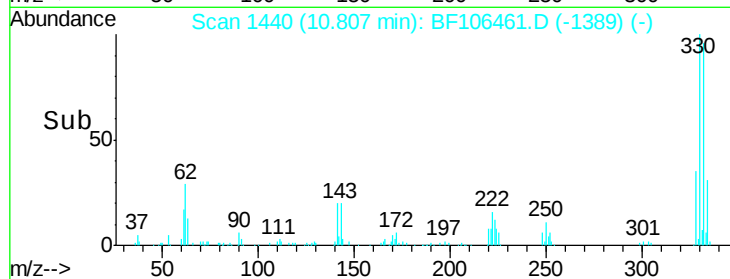
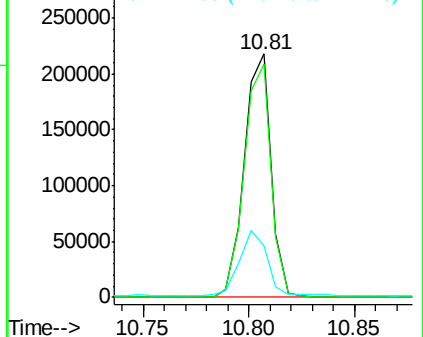
#41  
 2,4,6-Tribromophenol  
 Concen: 123.595 ng  
 RT: 10.81 min Scan# 1440  
 Delta R.T. 0.00 min  
 Lab File: BF106461.D  
 Acq: 14 Jun 2018 23:45

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PR-MW-01-061218

Tgt Ion:330 Resp: 191985  
 Ion Ratio Lower Upper  
 330 100  
 332 96.2 77.0 115.6  
 141 27.6 29.9 44.9#

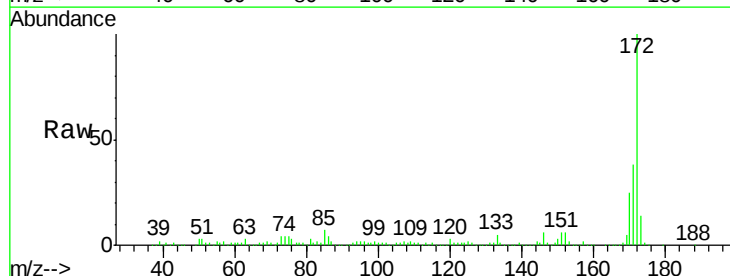


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

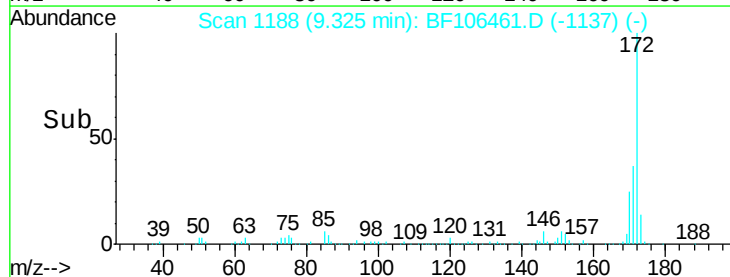
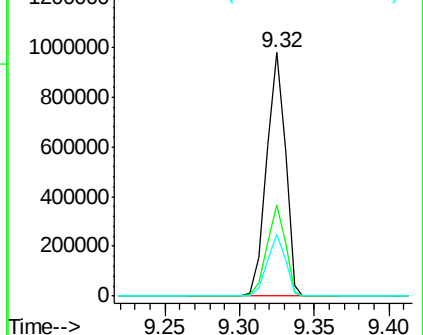


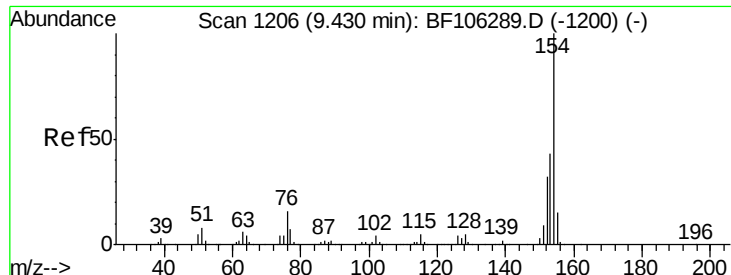
#44  
 2-Fluorobiphenyl  
 Concen: 97.054 ng  
 RT: 9.32 min Scan# 1188  
 Delta R.T. 0.00 min  
 Lab File: BF106461.D  
 Acq: 14 Jun 2018 23:45

Tgt Ion:172 Resp: 844377  
 Ion Ratio Lower Upper  
 172 100  
 171 37.5 29.7 44.5  
 170 25.4 19.6 29.4



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

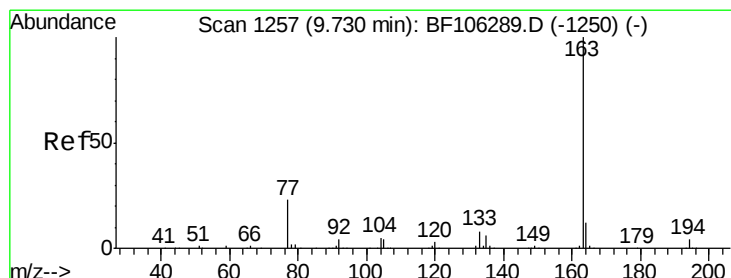
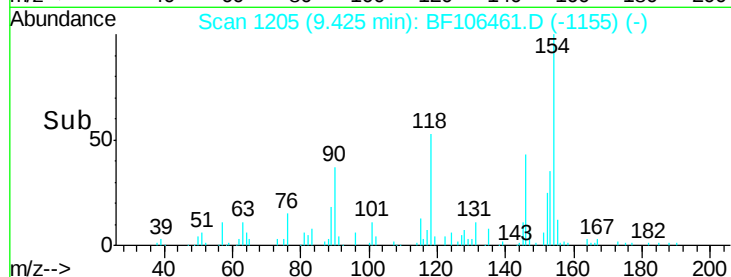
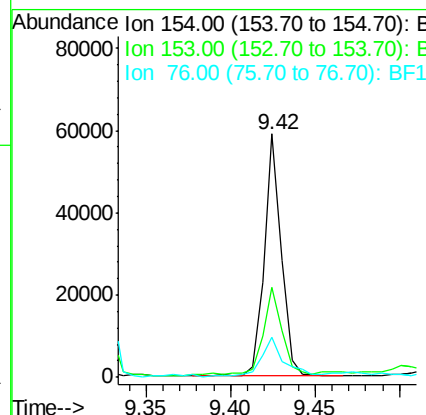
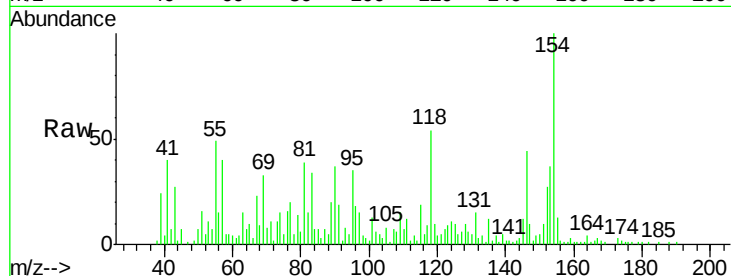




#45  
 1,1'-Biphenyl  
 Concen: 3.333 ng  
 RT: 9.42 min Scan# 1205  
 Delta R.T. -0.01 min  
 Lab File: BF106461.D  
 Acq: 14 Jun 2018 23:45

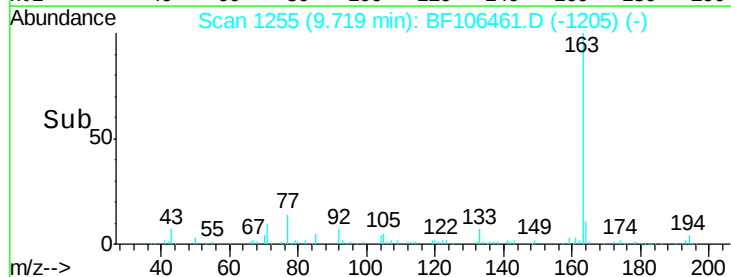
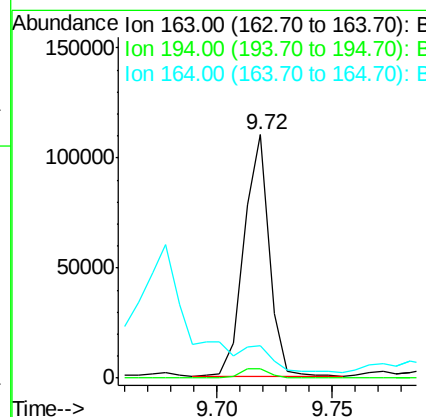
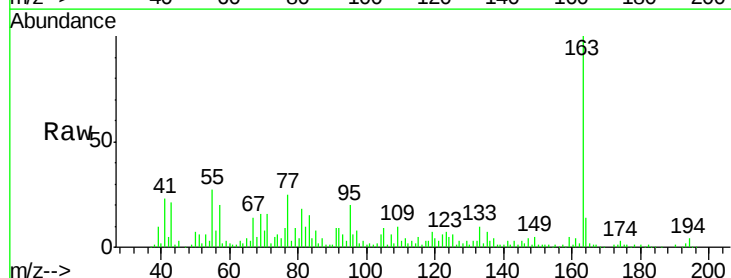
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PR-MW-01-061218

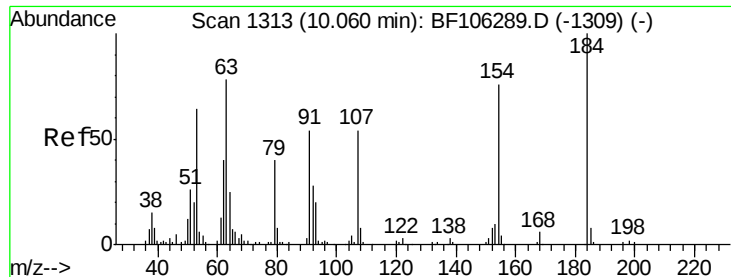
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 154   | Resp: | 41678 |
| Ion      | Ratio | Lower | Upper |
| 154      | 100   |       |       |
| 153      | 37.0  | 21.3  | 61.3  |
| 76       | 16.4  | 0.0   | 34.0  |



#49  
 Dimethylphthalate  
 Concen: 7.256 ng  
 RT: 9.72 min Scan# 1255  
 Delta R.T. -0.01 min  
 Lab File: BF106461.D  
 Acq: 14 Jun 2018 23:45

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 163   | Resp: | 83696 |
| Ion      | Ratio | Lower | Upper |
| 163      | 100   |       |       |
| 194      | 3.8   | 2.7   | 4.1   |
| 164      | 13.6  | 8.2   | 12.2# |

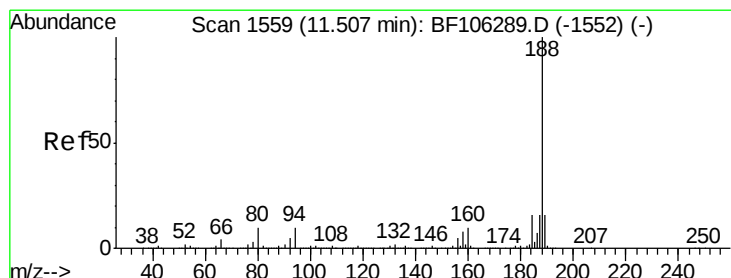
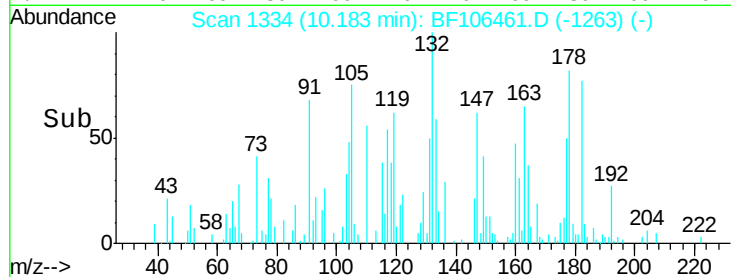
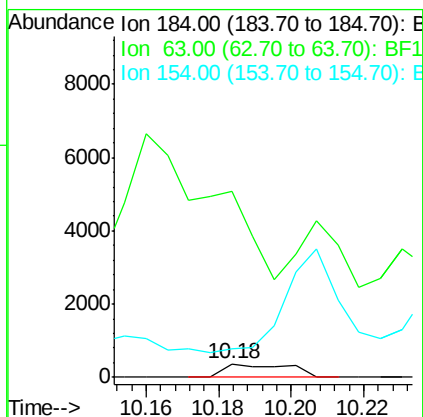
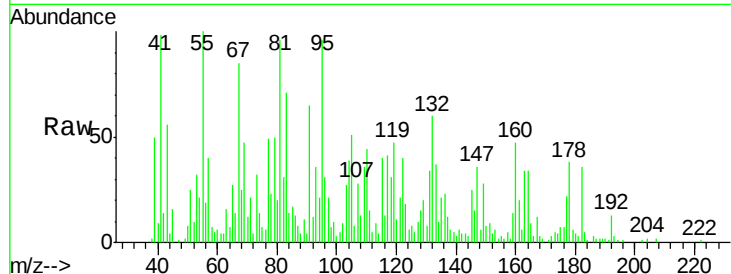




#53  
 2,4-Dinitrophenol  
 Concen: 8.993 ng  
 RT: 10.18 min Scan# 1334  
 Delta R.T. 0.12 min  
 Lab File: BF106461.D  
 Acq: 14 Jun 2018 23:45

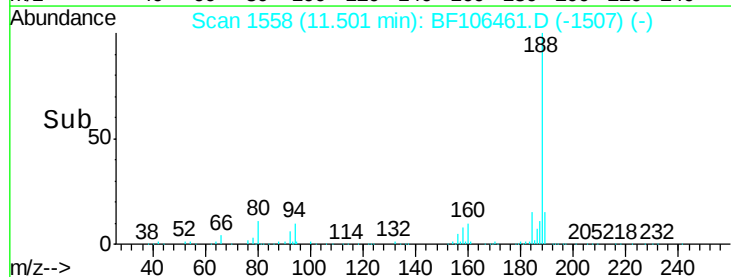
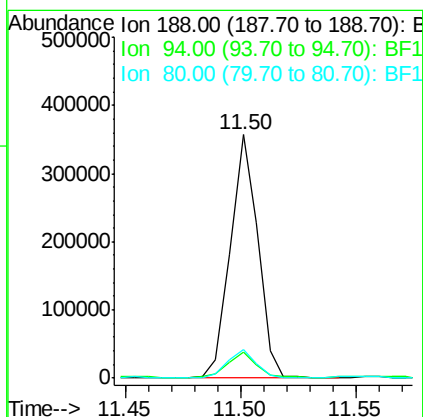
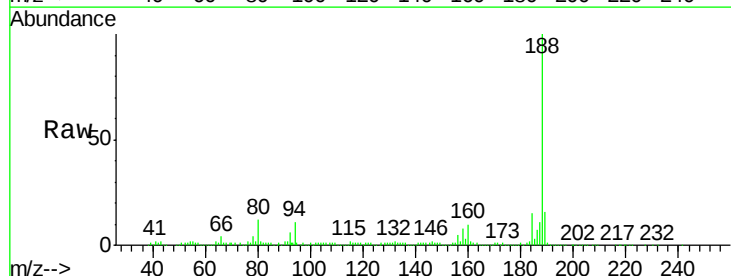
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PR-MW-01-061218

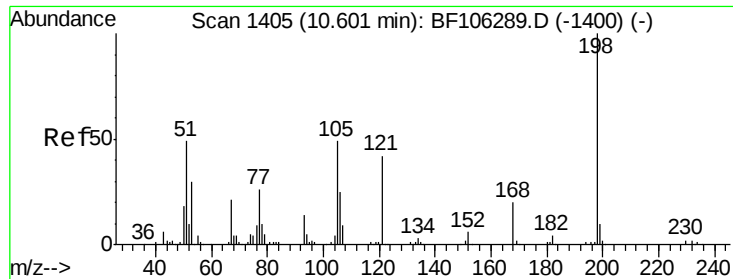
Tgt Ion:184 Resp: 460  
 Ion Ratio Lower Upper  
 184 100  
 63 1365.0 54.2 81.2#  
 154 208.4 184.0 276.0



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.50 min Scan# 1558  
 Delta R.T. 0.00 min  
 Lab File: BF106461.D  
 Acq: 14 Jun 2018 23:45

Tgt Ion:188 Resp: 295034  
 Ion Ratio Lower Upper  
 188 100  
 94 10.7 8.5 12.7  
 80 11.5 9.2 13.8





#64

4,6-Dinitro-2-methylphenol

Concen: 6.446 ng

RT: 10.51 min Scan# 1389

Delta R.T. -0.10 min

Lab File: BF106461.D

Acq: 14 Jun 2018 23:45

Instrument :

BNA\_F

ClientSampleId :

PR-MW-01-061218

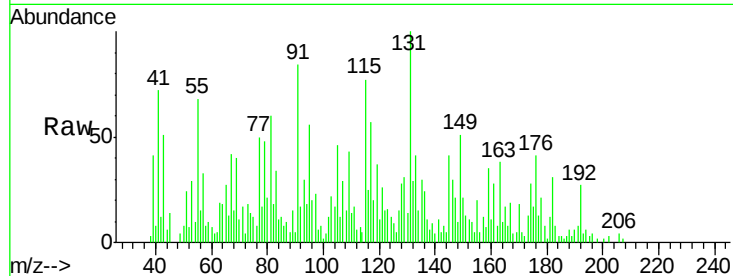
Tgt Ion:198 Resp: 277

Ion Ratio Lower Upper

198 100

51 1027.0 37.7 77.7#

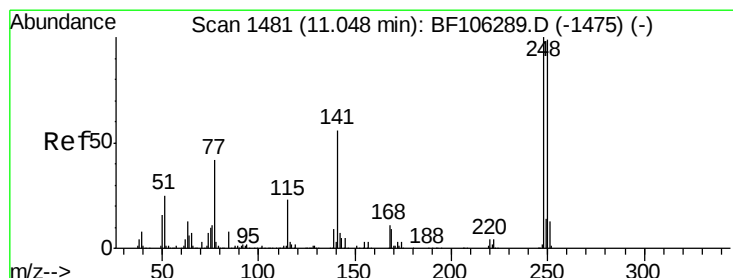
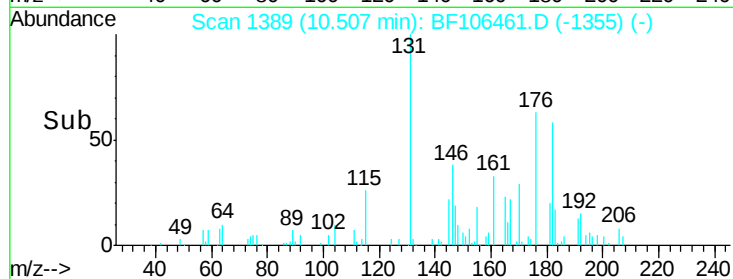
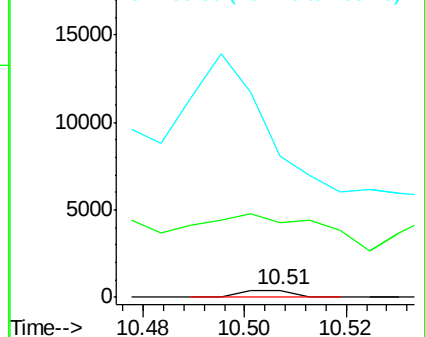
105 1939.0 36.3 76.3#



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: 3.752 ng

RT: 10.80 min Scan# 1439

Delta R.T. -0.24 min

Lab File: BF106461.D

Acq: 14 Jun 2018 23:45

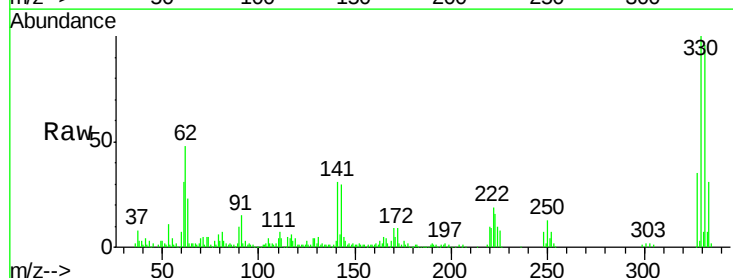
Tgt Ion:248 Resp: 12589

Ion Ratio Lower Upper

248 100

250 187.3 76.9 115.3#

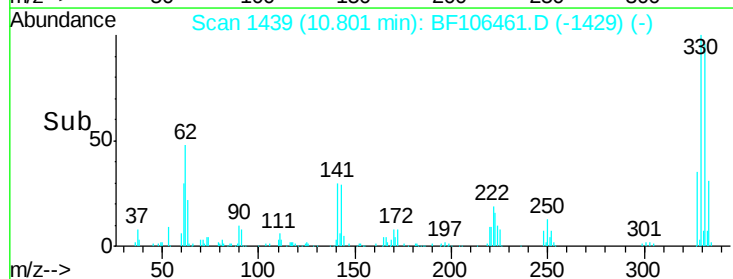
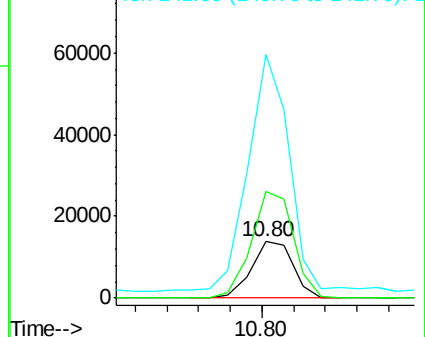
141 430.2 74.4 111.6#

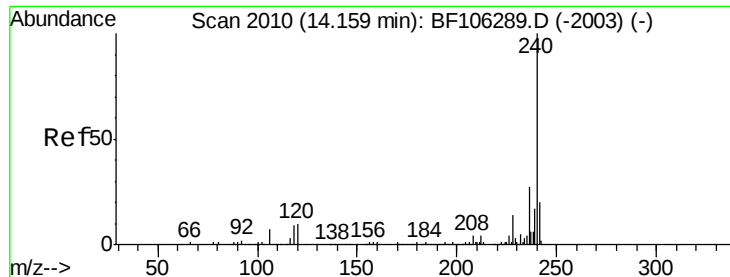


Abundance Ion 248.00 (247.70 to 248.70): E

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: 14.15 min Scan# 2008

Delta R.T. -0.01 min

Lab File: BF106461.D

Acq: 14 Jun 2018 23:45

Instrument :

BNA\_F

ClientSampleId :

PR-MW-01-061218

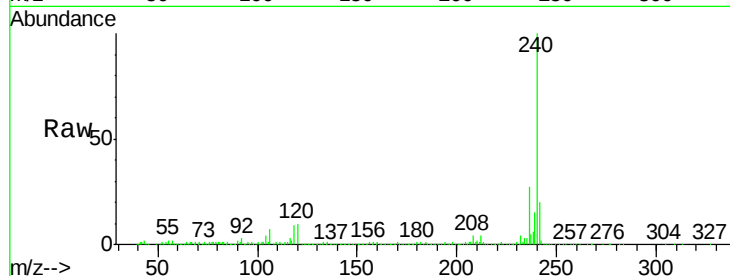
Tgt Ion:240 Resp: 285644

Ion Ratio Lower Upper

240 100

120 10.2 9.5 14.3

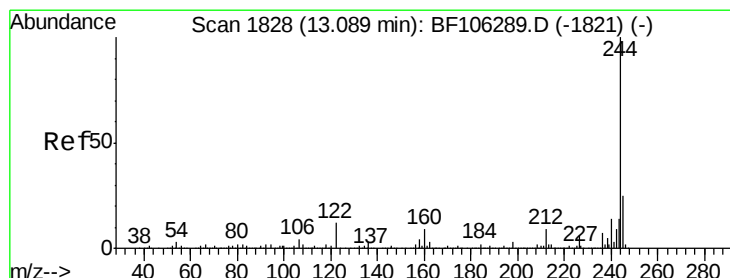
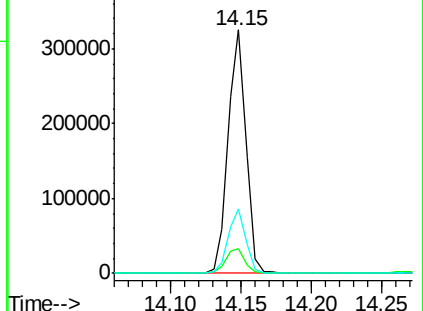
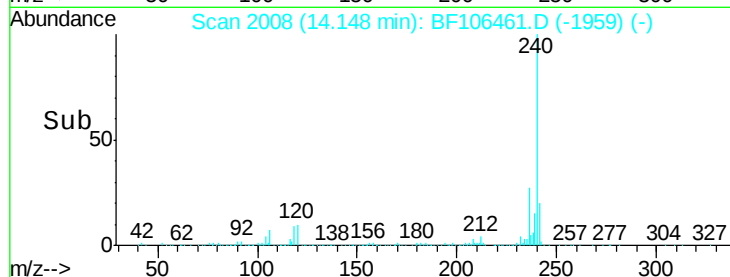
236 26.6 20.7 31.1



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: 75.953 ng

RT: 13.08 min Scan# 1827

Delta R.T. -0.01 min

Lab File: BF106461.D

Acq: 14 Jun 2018 23:45

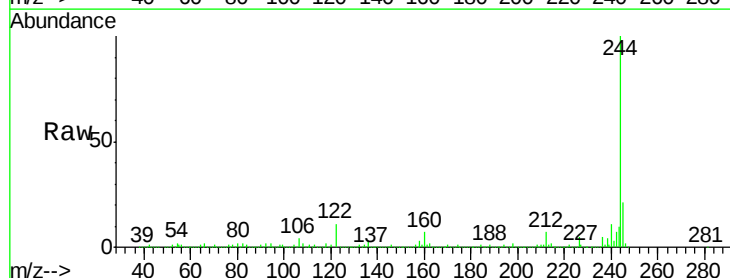
Tgt Ion:244 Resp: 873489

Ion Ratio Lower Upper

244 100

212 7.4 5.4 8.0

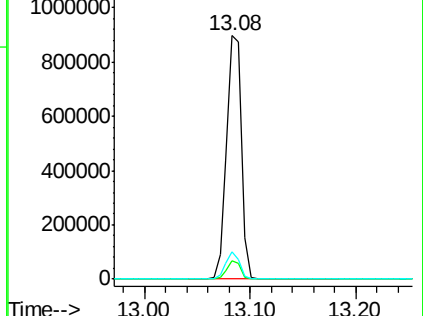
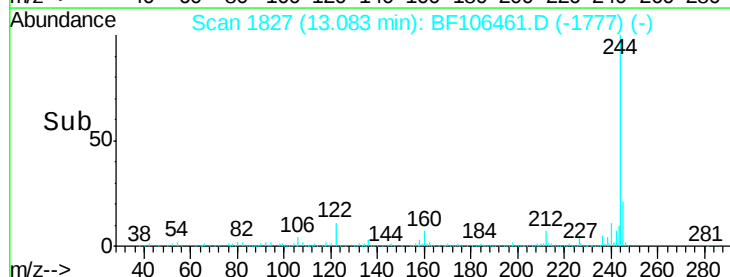
122 11.1 11.0 16.4

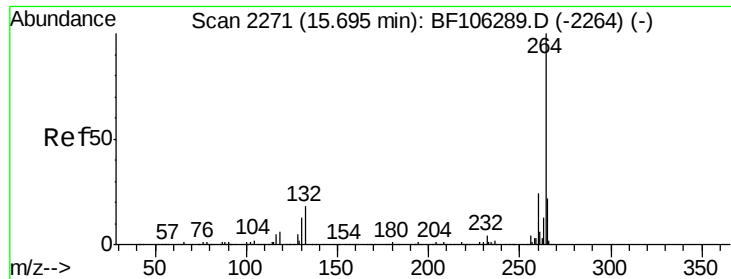


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.68 min Scan# 2269  
Delta R.T. -0.02 min  
Lab File: BF106461.D  
Acq: 14 Jun 2018 23:45

Instrument :  
BNA\_F  
ClientSampleId :  
PR-MW-01-061218

Tgt Ion: 264 Resp: 200005  
Ion Ratio Lower Upper  
264 100  
260 24.0 19.2 28.8  
265 21.1 17.5 26.3

