

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF102318\  
 Data File : BF110093.D  
 Acq On : 23 Oct 2018 22:27  
 Operator : JU/SJ  
 Sample : J5164-07  
 Misc : LOD 5PPM  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT4-2018

Quant Time: Oct 24 07:30:52 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF102318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Oct 23 15:06:18 2018  
 Response via : Initial Calibration

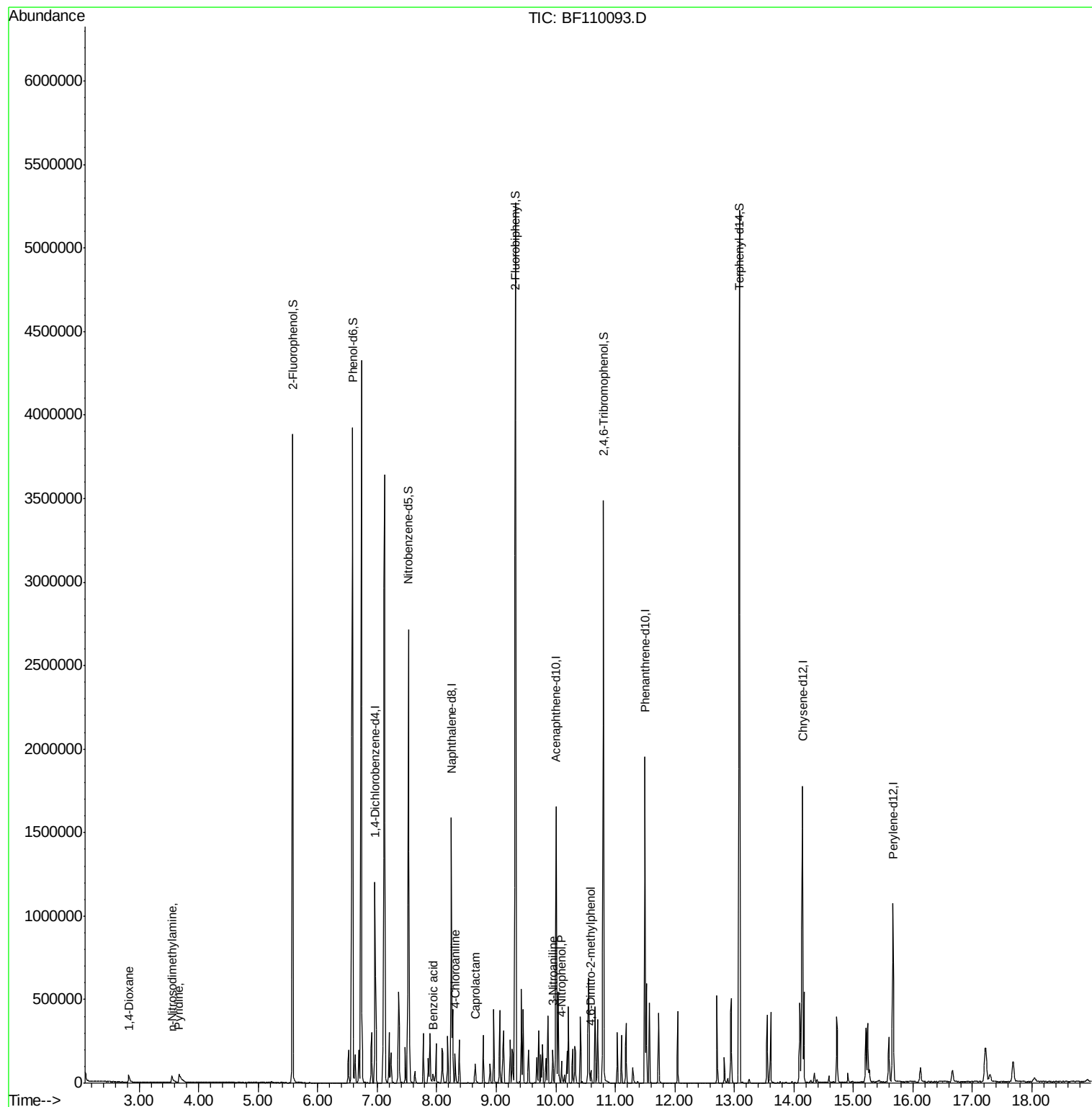
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.96  | 152  | 163201   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 8.25  | 136  | 693261   | 20.00  | ng    | -0.02    |
| 39) Acenaphthene-d10           | 10.00 | 164  | 341455   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10           | 11.50 | 188  | 653306   | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12               | 14.14 | 240  | 560446   | 20.00  | ng    | -0.02    |
| 87) Perylene-d12               | 15.67 | 264  | 484764   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.58  | 112  | 1235913  | 123.32 | ng    | -0.02    |
| 7) Phenol-d6                   | 6.59  | 99   | 1543712  | 120.43 | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.53  | 82   | 935870   | 80.07  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 10.80 | 330  | 412711   | 122.02 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl           | 9.32  | 172  | 1724009  | 79.28  | ng    | -0.02    |
| 79) Terphenyl-d14              | 13.09 | 244  | 1820479  | 67.55  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 2) 1,4-Dioxane                 | 2.83  | 88   | 21837    | 4.159  | ng    | 91       |
| 3) Pyridine                    | 3.66  | 79   | 54713    | 4.678  | ng    | # 82     |
| 4) n-Nitrosodimethylamine      | 3.55  | 42   | 24864    | 5.075  | ng    | # 88     |
| 32) Benzoic acid               | 7.94  | 122  | 16004    | 2.175  | ng    | 88       |
| 33) 4-Chloroaniline            | 8.32  | 127  | 55543    | 3.863  | ng    | 96       |
| 35) Caprolactam                | 8.65  | 113  | 15381    | 4.588  | ng    | # 86     |
| 53) 3-Nitroaniline             | 9.95  | 138  | 26949    | 4.174  | ng    | 92       |
| 56) 4-Nitrophenol              | 10.10 | 139  | 22582    | 4.726  | ng    | 92       |
| 65) 4,6-Dinitro-2-methylphenol | 10.59 | 198  | 9454     | 3.167  | ng    | 88       |

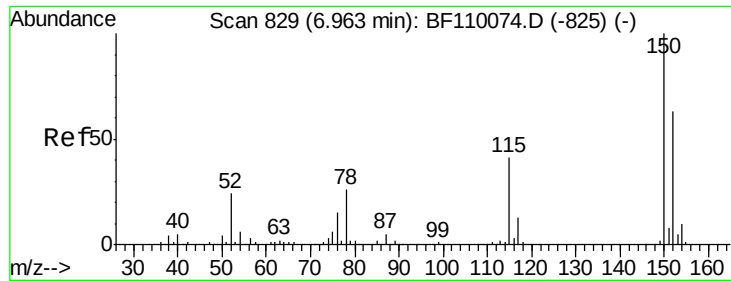
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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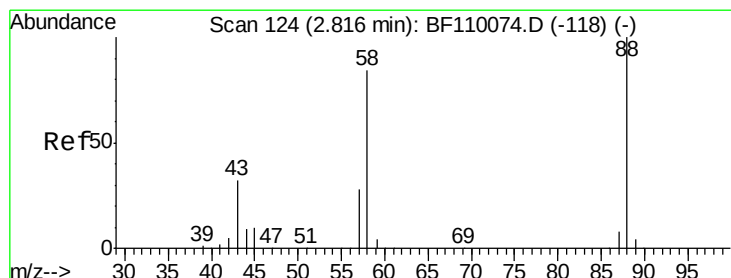
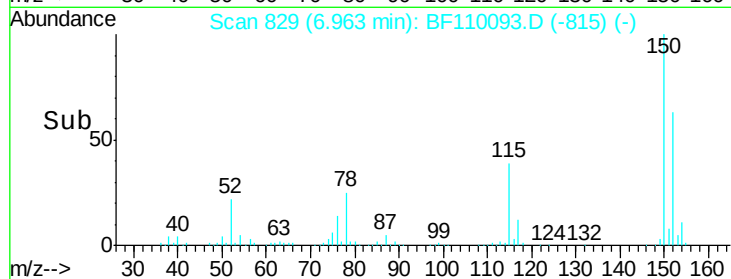
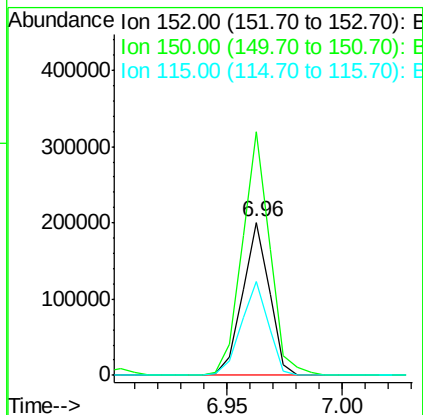
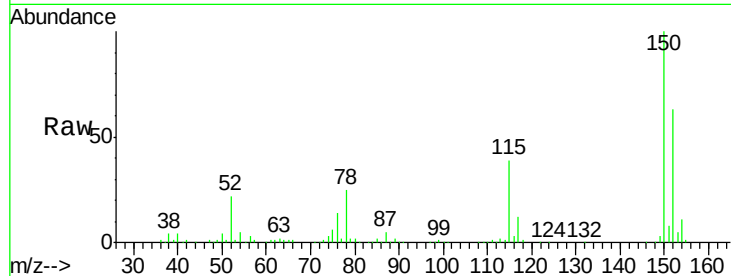


#1

1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.96 min Scan# 829  
 Delta R.T. -0.02 min  
 Lab File: BF110093.D  
 Acq: 23 Oct 2018 22:27

Instrument :  
 BNA\_F  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT4-2018

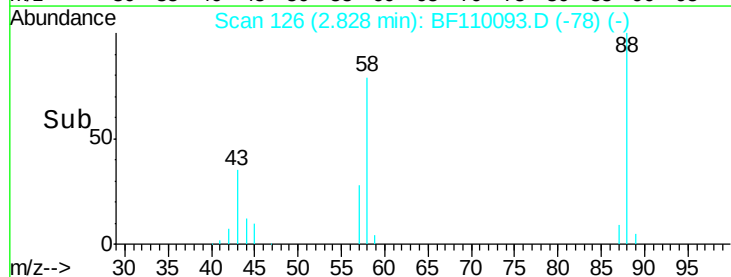
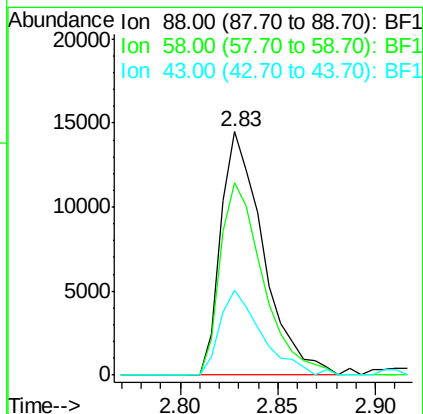
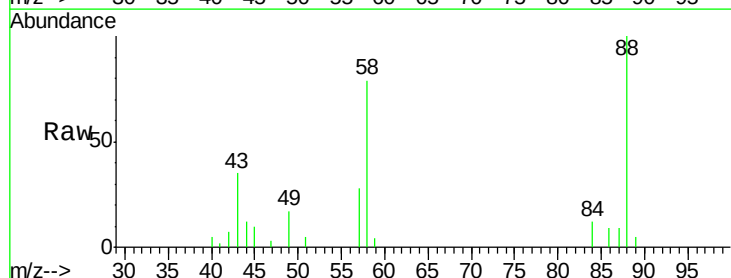
Tgt Ion: 152 Resp: 163201  
 Ion Ratio Lower Upper  
 152 100  
 150 159.2 122.7 184.1  
 115 61.8 49.1 73.7

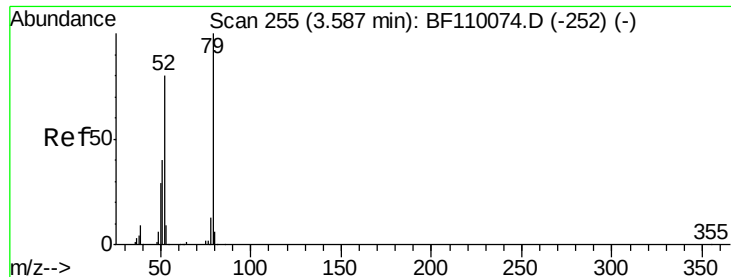


#2

1,4-Dioxane  
 Concen: 4.159 ng  
 RT: 2.83 min Scan# 126  
 Delta R.T. -0.02 min  
 Lab File: BF110093.D  
 Acq: 23 Oct 2018 22:27

Tgt Ion: 88 Resp: 21837  
 Ion Ratio Lower Upper  
 88 100  
 58 79.5 57.1 85.7  
 43 34.3 24.1 36.1





#3

Pyridine

Concen: 4.678 ng

RT: 3.66 min Scan# 268

Delta R.T. 0.05 min

Lab File: BF110093.D

Acq: 23 Oct 2018 22:27

Instrument :

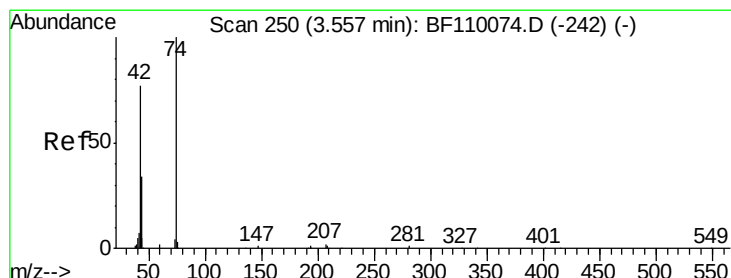
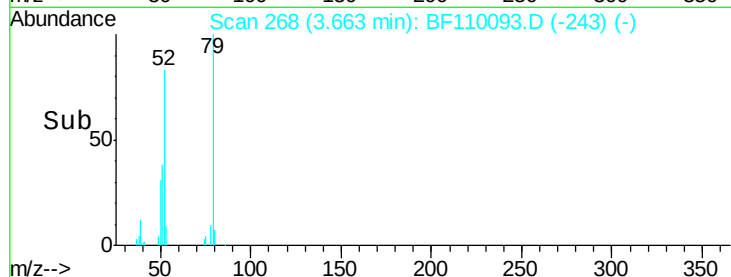
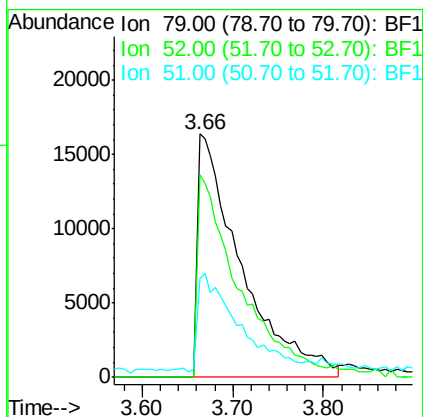
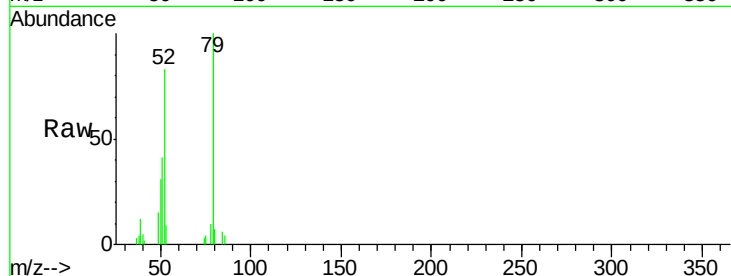
BNA\_F

ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

Tgt Ion: 79 Resp: 54713

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 79  | 100   |       |       |
| 52  | 83.0  | 53.1  | 79.7# |
| 51  | 40.7  | 27.4  | 41.2  |



#4

n-Nitrosodimethylamine

Concen: 5.075 ng

RT: 3.55 min Scan# 249

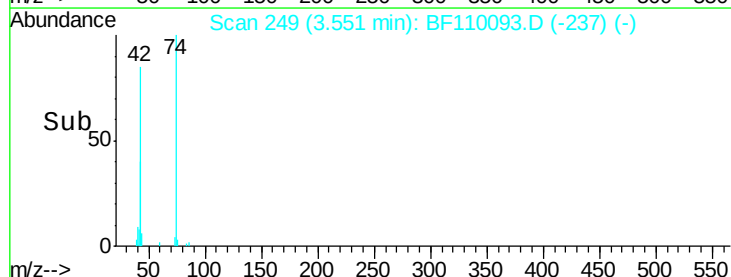
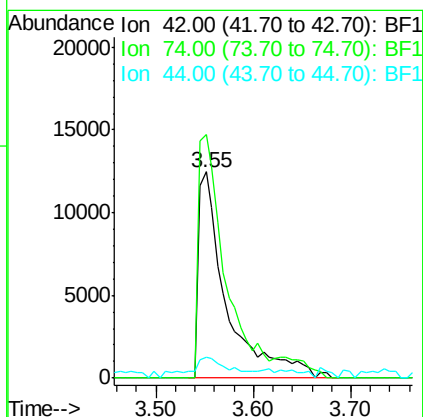
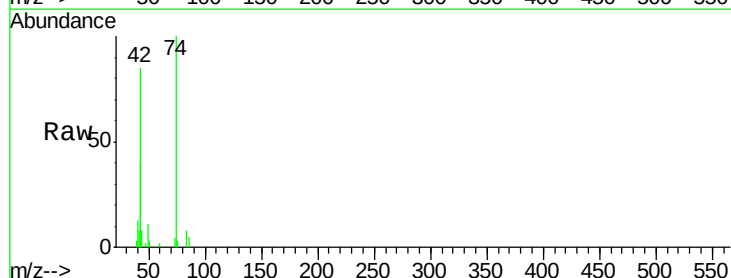
Delta R.T. -0.03 min

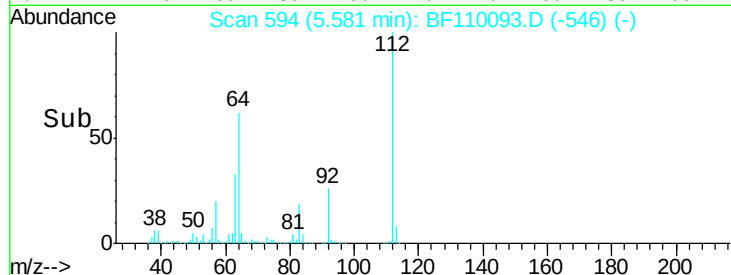
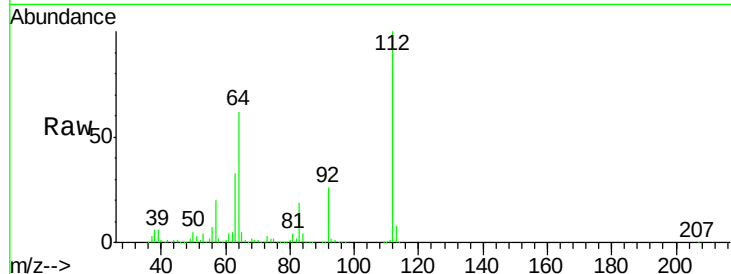
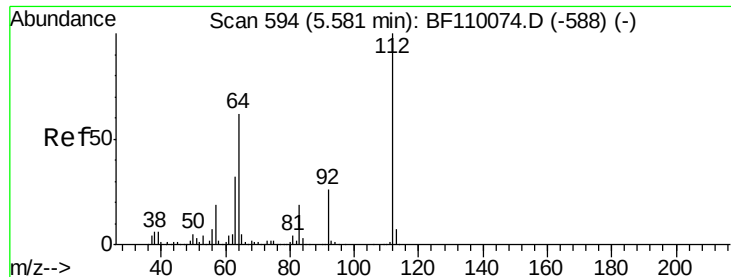
Lab File: BF110093.D

Acq: 23 Oct 2018 22:27

Tgt Ion: 42 Resp: 24864

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 42  | 100   |       |       |
| 74  | 118.2 | 105.5 | 158.3 |
| 44  | 10.0  | 4.9   | 7.3#  |





#5

2-Fluorophenol

Concen: 123.322 ng

RT: 5.58 min Scan# 594

Delta R.T. -0.02 min

Lab File: BF110093.D

Acq: 23 Oct 2018 22:27

Instrument :

BNA\_F

ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

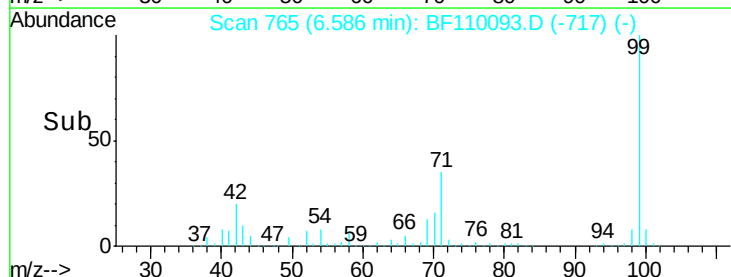
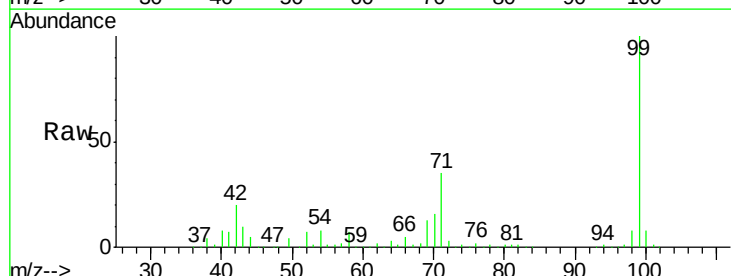
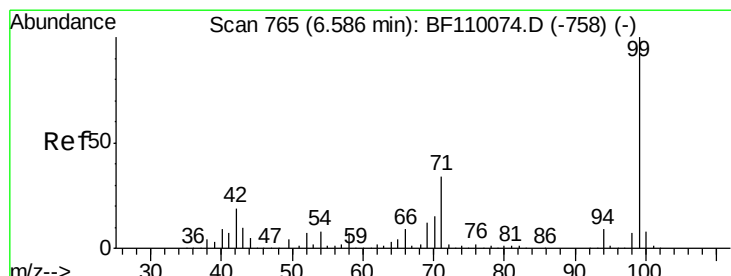
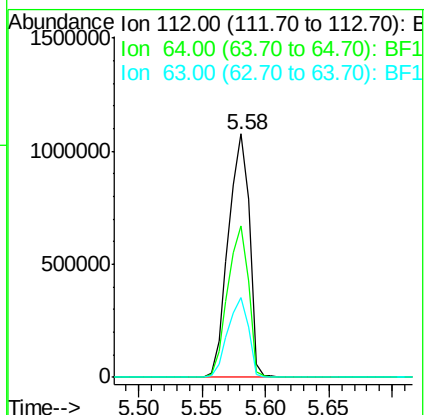
Tgt Ion:112 Resp: 1235913

Ion Ratio Lower Upper

112 100

64 62.4 44.1 66.1

63 33.0 23.7 35.5



#7

Phenol-d6

Concen: 120.426 ng

RT: 6.59 min Scan# 765

Delta R.T. -0.02 min

Lab File: BF110093.D

Acq: 23 Oct 2018 22:27

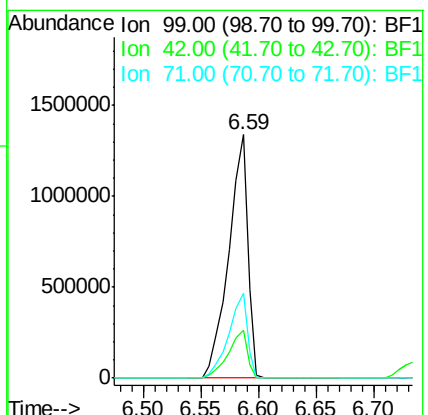
Tgt Ion: 99 Resp: 1543712

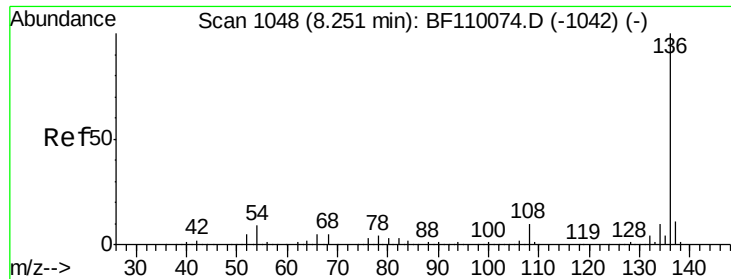
Ion Ratio Lower Upper

99 100

42 19.6 15.8 23.6

71 34.9 28.0 42.0

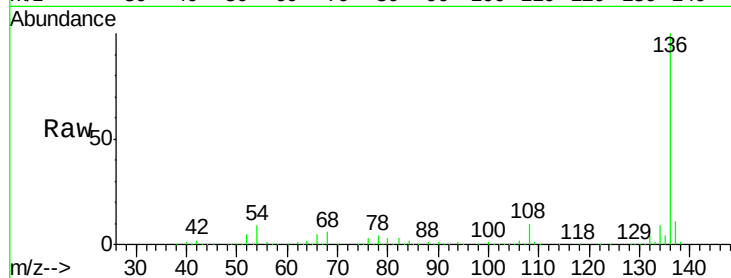




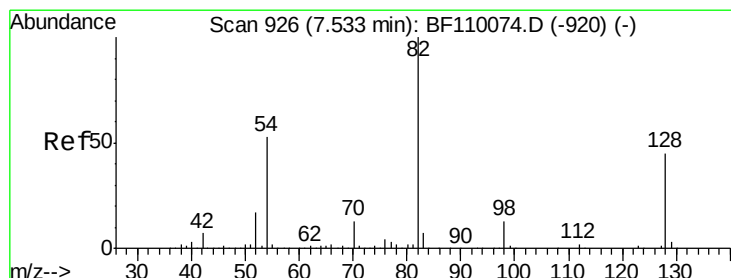
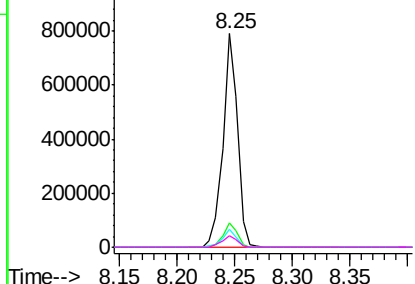
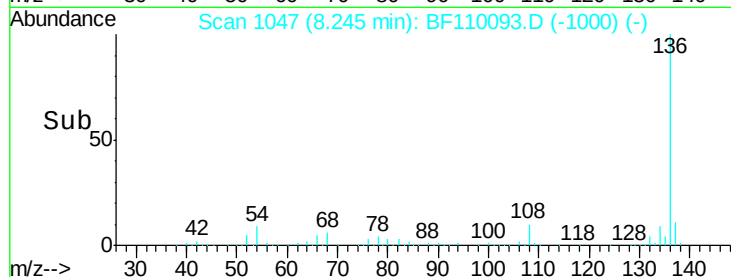
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.25 min Scan# 1047  
Delta R.T. -0.02 min  
Lab File: BF110093.D  
Acq: 23 Oct 2018 22:27

Instrument :  
BNA\_F  
ClientSampleId :  
LOD-MDL-WATER-01-QT4-2018

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 693261 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.4  | 8.8   | 13.2   |
| 54       | 8.6   | 5.4   | 8.2#   |
| 68       | 5.6   | 4.2   | 6.2    |

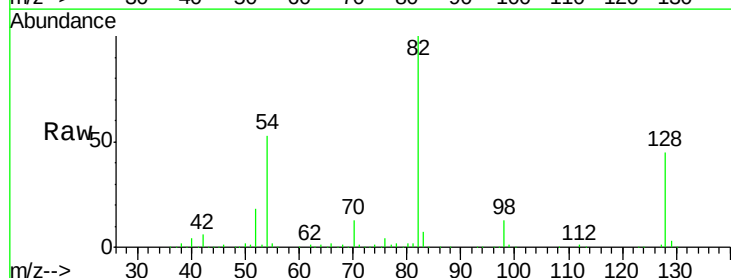


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

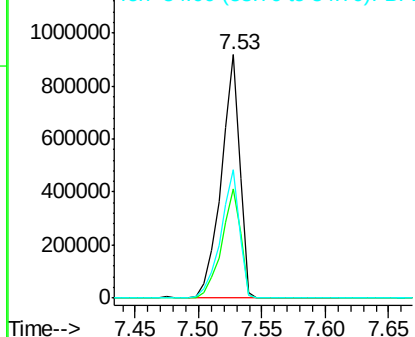
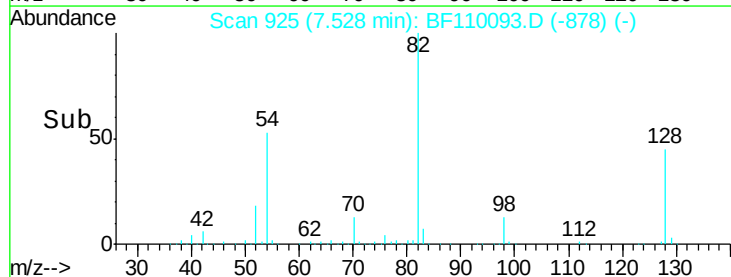


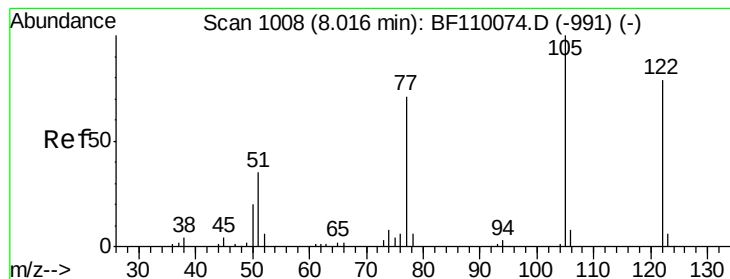
#23  
Nitrobenzene-d5  
Concen: 80.070 ng  
RT: 7.53 min Scan# 925  
Delta R.T. -0.02 min  
Lab File: BF110093.D  
Acq: 23 Oct 2018 22:27

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 935870 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 44.9  | 34.2  | 51.2   |
| 54       | 53.0  | 38.6  | 58.0   |



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





#32

Benzoic acid

Concen: 2.175 ng

RT: 7.94 min Scan# 995

Delta R.T. -0.07 min

Lab File: BF110093.D

Acq: 23 Oct 2018 22:27

Instrument :

BNA\_F

ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

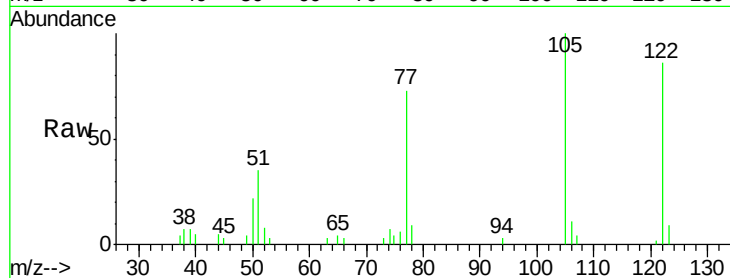
Tgt Ion:122 Resp: 16004

Ion Ratio Lower Upper

122 100

105 116.8 109.0 149.0

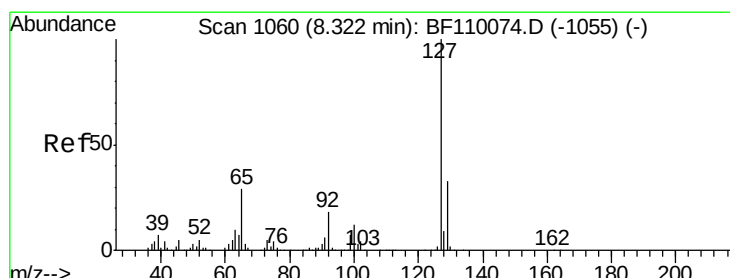
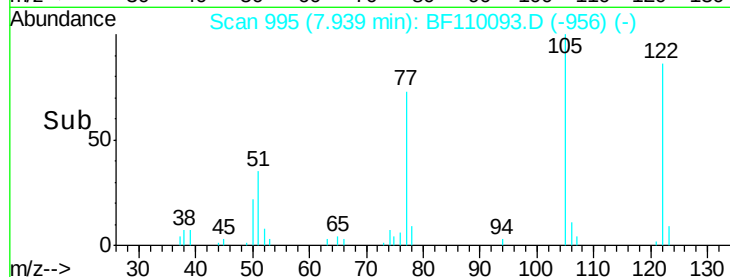
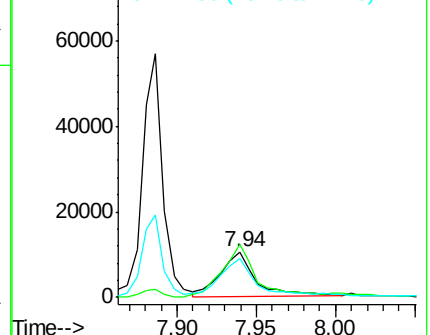
77 85.1 79.0 119.0



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: 3.863 ng

RT: 8.32 min Scan# 1059

Delta R.T. -0.02 min

Lab File: BF110093.D

Acq: 23 Oct 2018 22:27

Tgt Ion:127 Resp: 55543

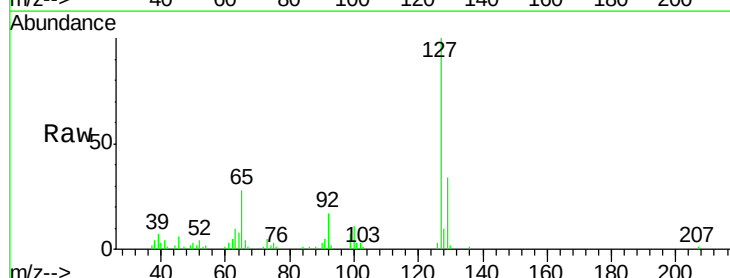
Ion Ratio Lower Upper

127 100

129 33.5 26.0 39.0

65 27.8 25.1 37.7

92 17.2 15.0 22.6

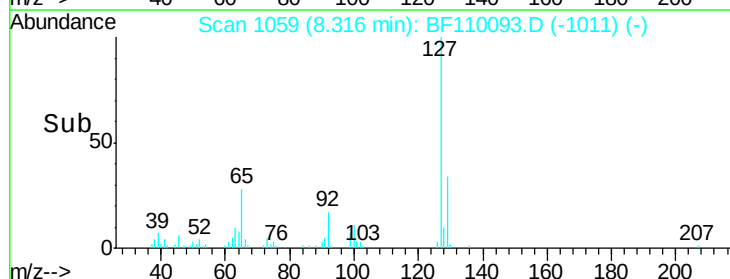
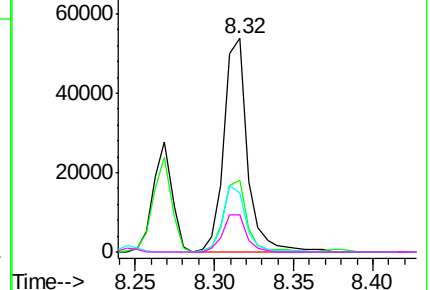


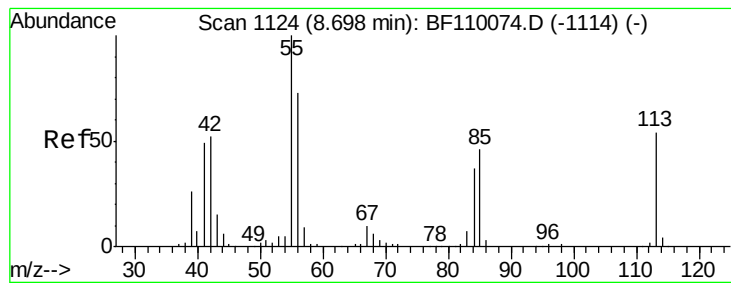
Abundance Ion 127.00 (126.70 to 127.70): E

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





#35

Caprolactam

Concen: 4.588 ng

RT: 8.65 min Scan# 1115

Delta R.T. -0.06 min

Lab File: BF110093.D

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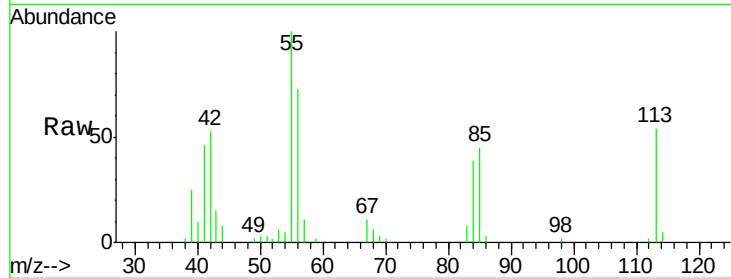
Tgt Ion:113 Resp: 15381

Ion Ratio Lower Upper

113 100

55 185.5 142.8 182.8#

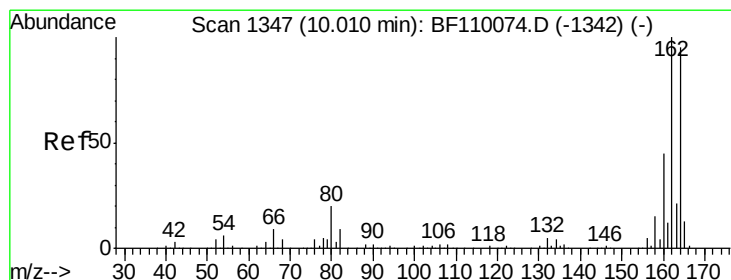
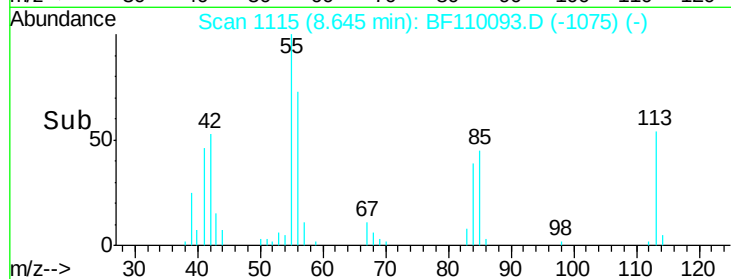
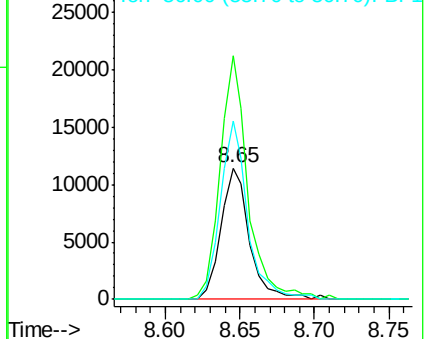
56 135.5 105.0 145.0



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BF1

Ion 56.00 (55.70 to 56.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.00 min Scan# 1346

Delta R.T. -0.02 min

Lab File: BF110093.D

Acq: 23 Oct 2018 22:27

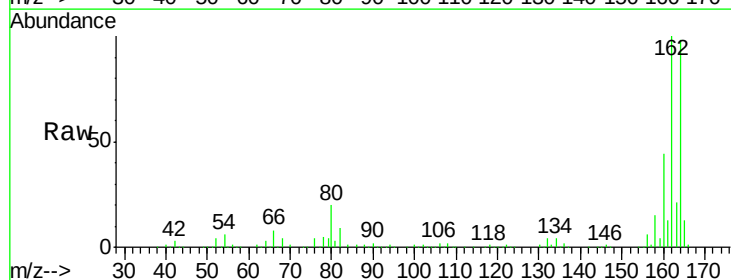
Tgt Ion:164 Resp: 341455

Ion Ratio Lower Upper

164 100

162 101.6 83.0 124.6

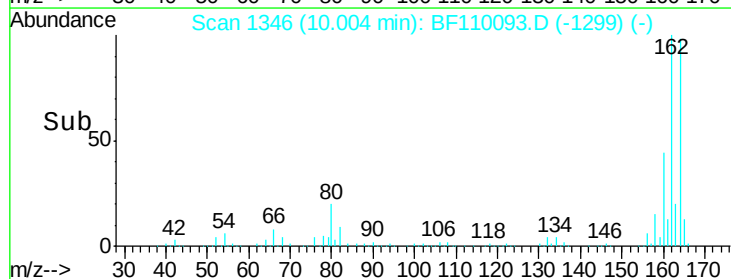
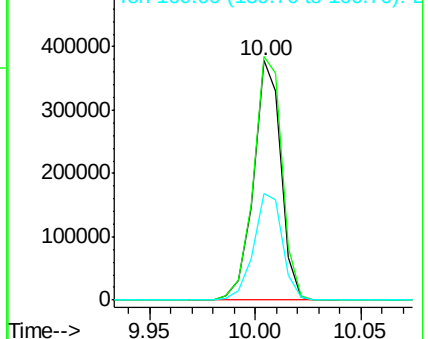
160 44.4 37.0 55.6



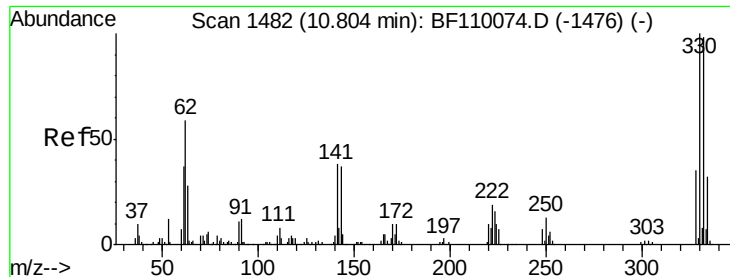
Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E







#42

2,4,6-Tribromophenol

Concen: 122.019 ng

RT: 10.80 min Scan# 1481

Delta R.T. -0.02 min

Lab File: BF110093.D

Acq: 23 Oct 2018 22:27

Instrument :

BNA\_F

ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

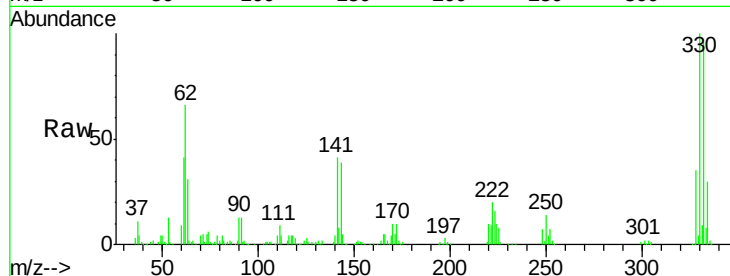
Tgt Ion:330 Resp: 412711

Ion Ratio Lower Upper

330 100

332 94.5 77.1 115.7

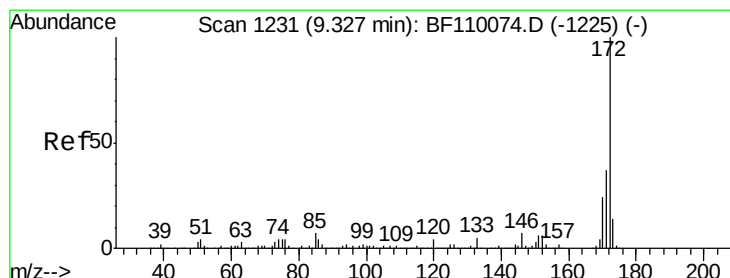
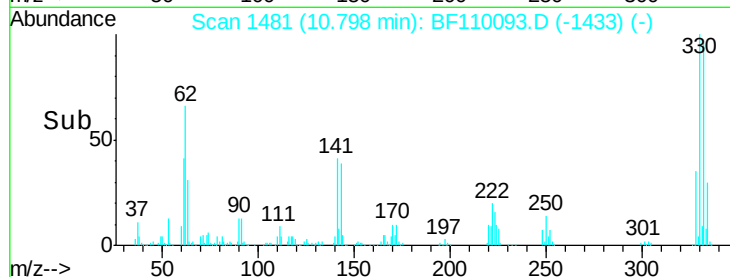
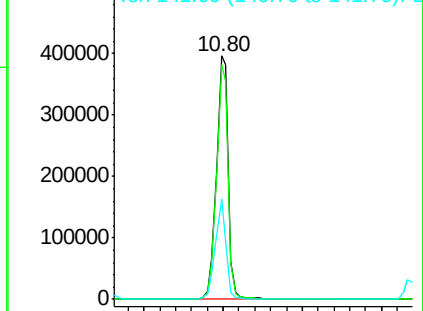
141 37.1 27.0 40.4



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: 79.282 ng

RT: 9.32 min Scan# 1230

Delta R.T. -0.02 min

Lab File: BF110093.D

Acq: 23 Oct 2018 22:27

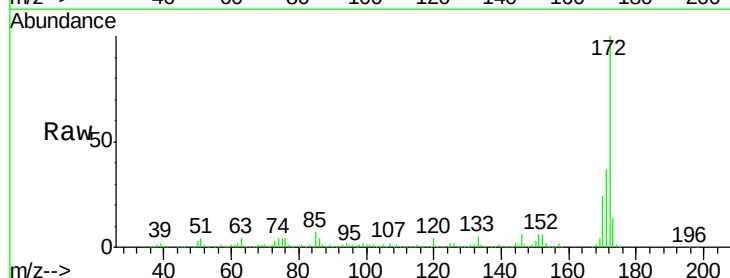
Tgt Ion:172 Resp: 1724009

Ion Ratio Lower Upper

172 100

171 37.0 28.6 43.0

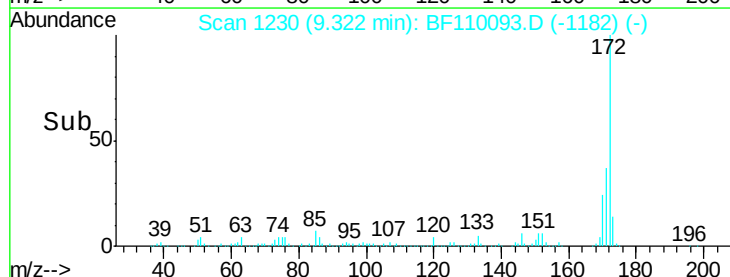
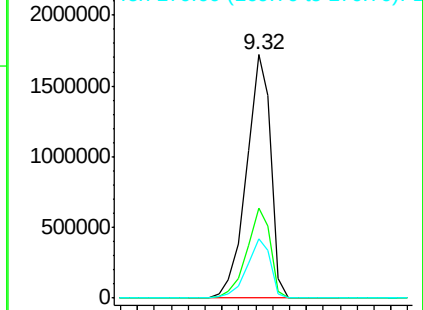
170 24.3 19.7 29.5

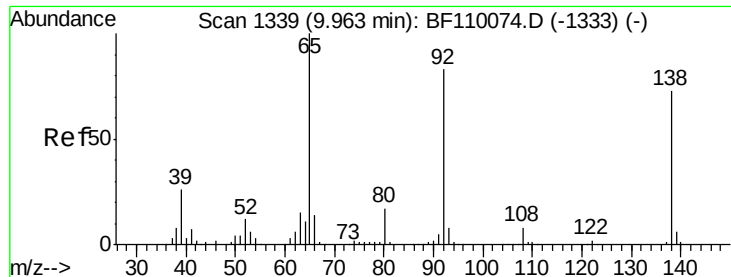


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

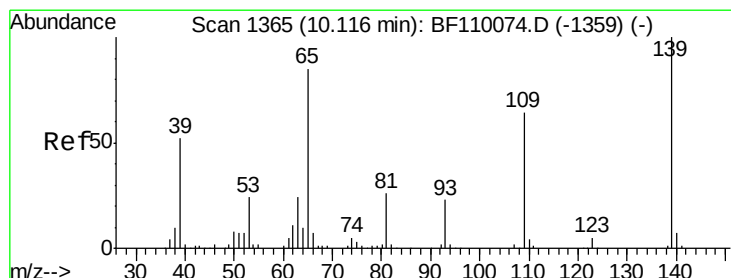
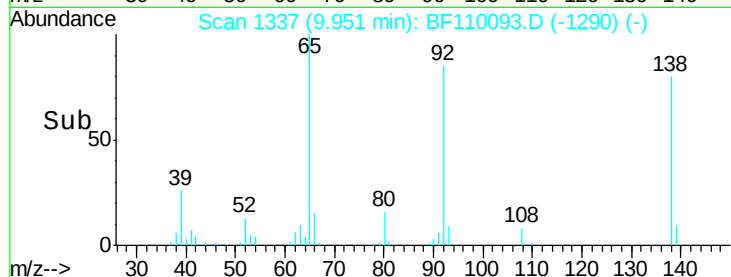
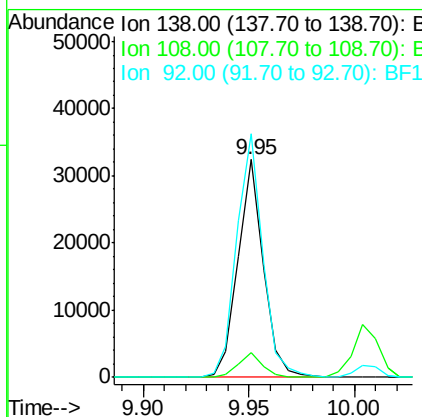
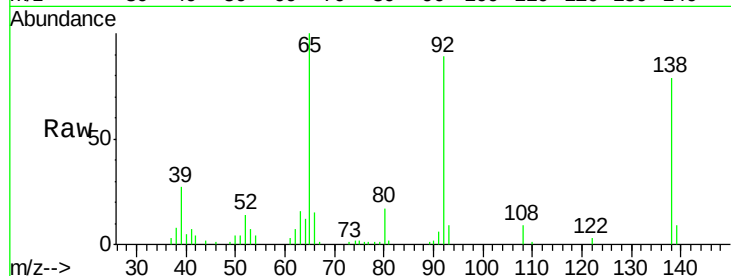




#53  
 3-Nitroaniline  
 Concen: 4.174 ng  
 RT: 9.95 min Scan# 1337  
 Delta R.T. -0.02 min  
 Lab File: BF110093.D  
 Acq: 23 Oct 2018 22:27

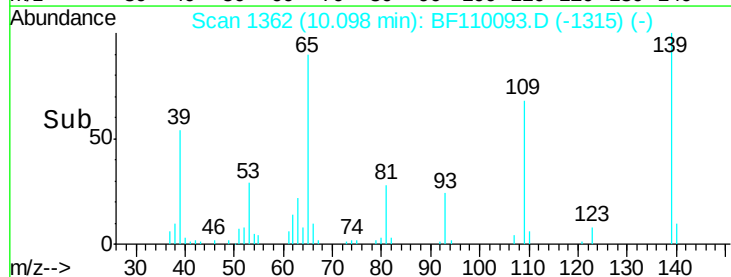
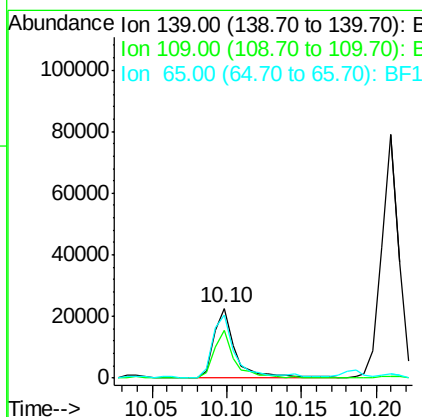
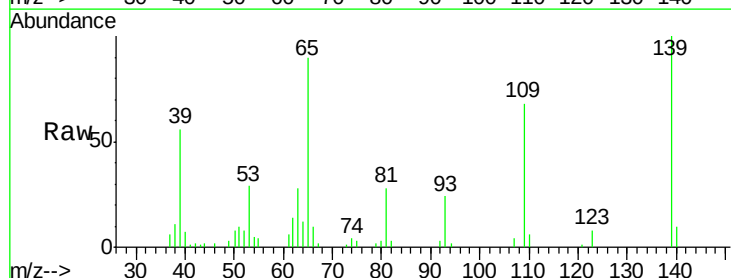
Instrument :  
 BNA\_F  
 ClientSampleId :  
 LOD-MDL-WATER-01-QT4-2018

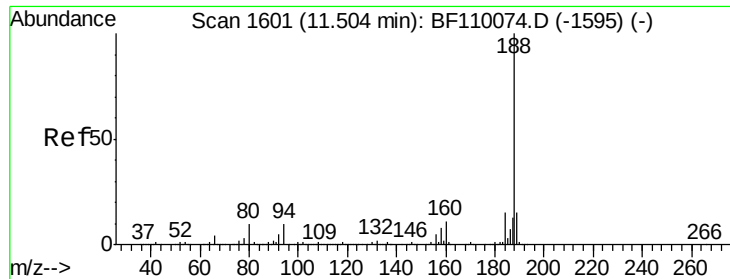
Tgt Ion:138 Resp: 26949  
 Ion Ratio Lower Upper  
 138 100  
 108 11.5 8.7 13.1  
 92 111.8 97.0 145.4



#56  
 4-Nitrophenol  
 Concen: 4.726 ng  
 RT: 10.10 min Scan# 1362  
 Delta R.T. -0.02 min  
 Lab File: BF110093.D  
 Acq: 23 Oct 2018 22:27

Tgt Ion:139 Resp: 22582  
 Ion Ratio Lower Upper  
 139 100  
 109 68.0 55.8 95.8  
 65 90.5 77.9 117.9





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.50 min Scan# 1600

Delta R.T. -0.02 min

Lab File: BF110093.D

Acq: 23 Oct 2018 22:27

Instrument :

BNA\_F

ClientSampleId :

LOD-MDL-WATER-01-QT4-2018

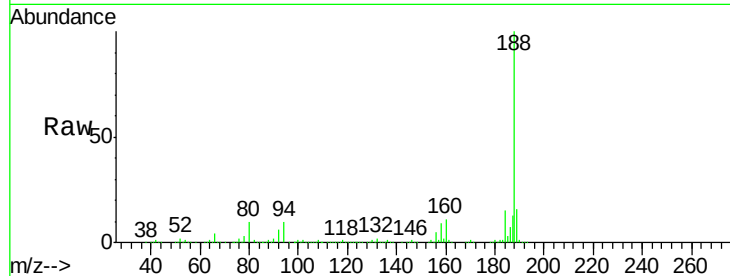
Tgt Ion:188 Resp: 653306

Ion Ratio Lower Upper

188 100

94 10.0 7.2 10.8

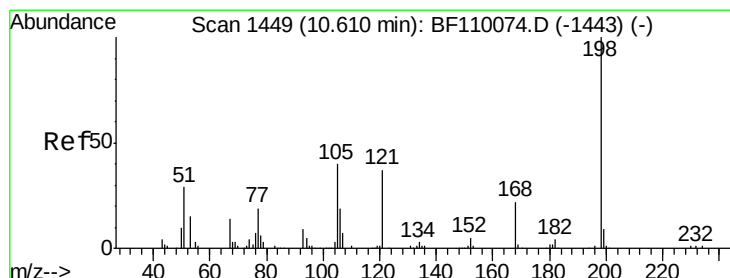
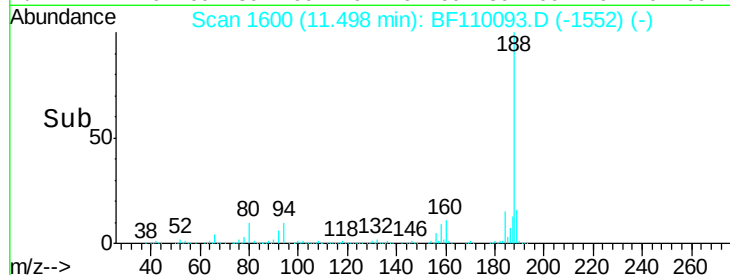
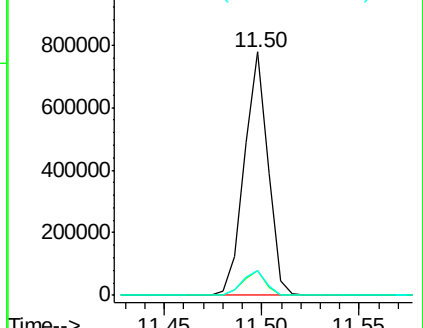
80 10.3 7.9 11.9



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: 3.167 ng

RT: 10.59 min Scan# 1446

Delta R.T. -0.03 min

Lab File: BF110093.D

Acq: 23 Oct 2018 22:27

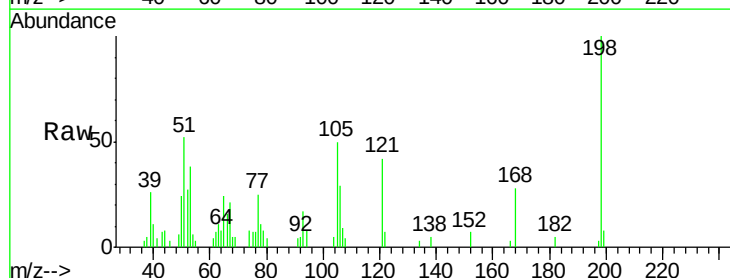
Tgt Ion:198 Resp: 9454

Ion Ratio Lower Upper

198 100

51 51.9 22.8 62.8

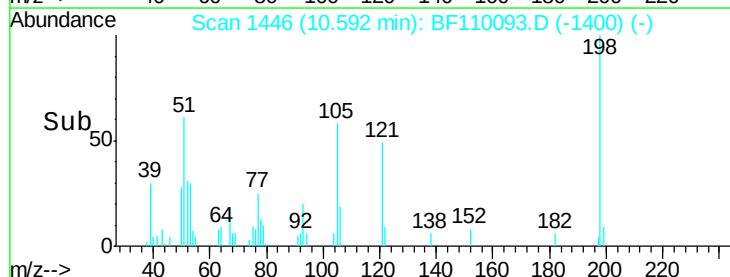
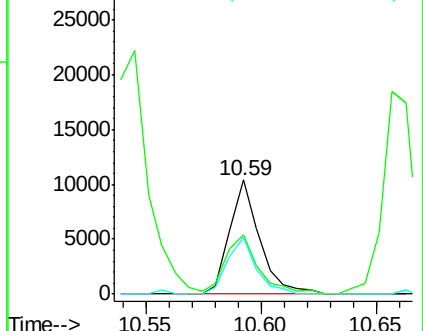
105 49.5 23.6 63.6

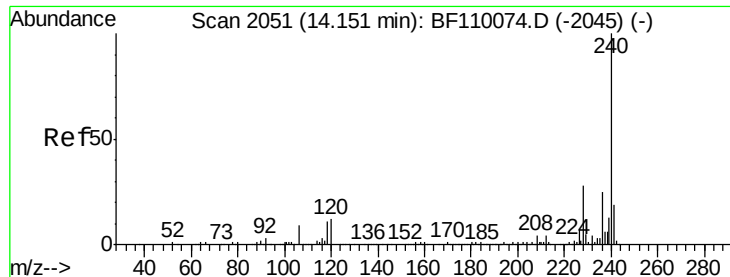


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E

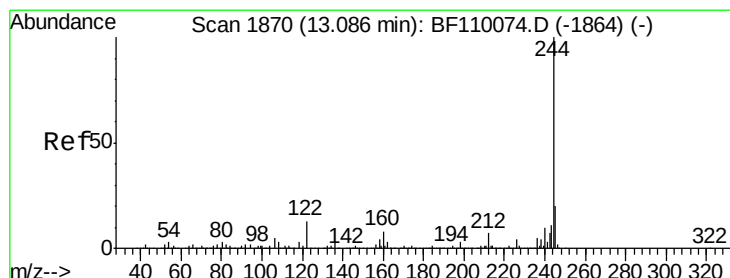
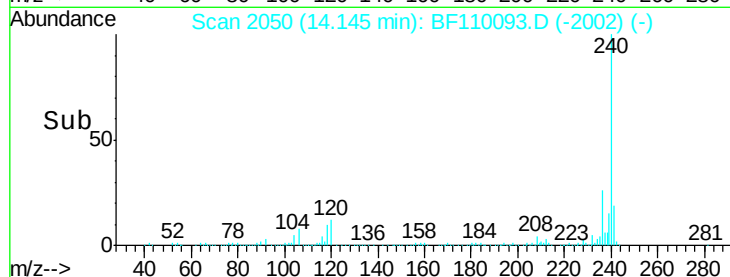
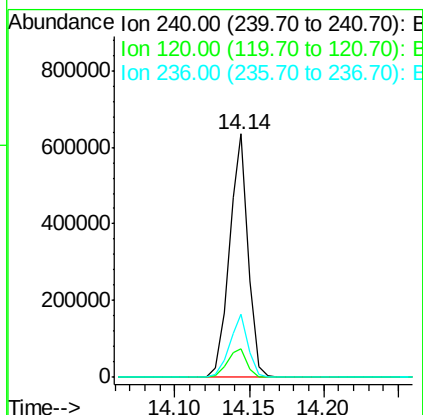
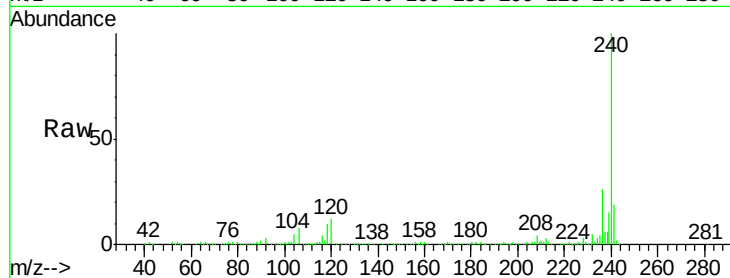




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.14 min Scan# 2050  
Delta R.T. -0.02 min  
Lab File: BF110093.D  
Acq: 23 Oct 2018 22:27

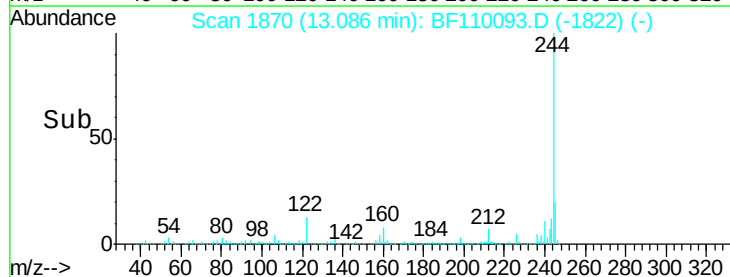
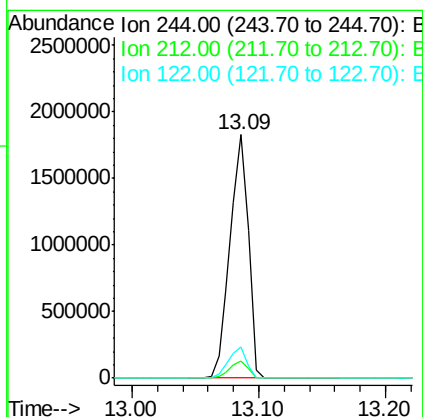
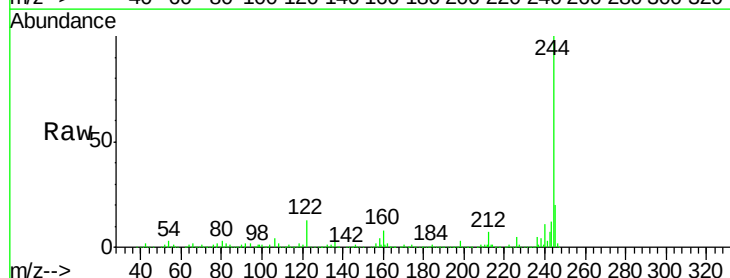
Instrument :  
BNA\_F  
ClientSampleId :  
LOD-MDL-WATER-01-QT4-2018

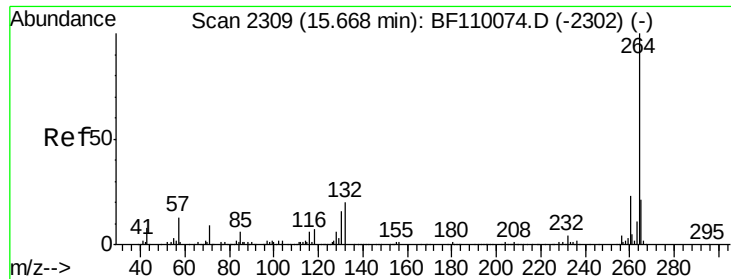
Tgt Ion:240 Resp: 560446  
Ion Ratio Lower Upper  
240 100  
120 11.6 8.3 12.5  
236 25.7 21.2 31.8



#79  
Terphenyl-d14  
Concen: 67.555 ng  
RT: 13.09 min Scan# 1870  
Delta R.T. -0.02 min  
Lab File: BF110093.D  
Acq: 23 Oct 2018 22:27

Tgt Ion:244 Resp: 1820479  
Ion Ratio Lower Upper  
244 100  
212 7.3 5.8 8.8  
122 12.8 8.7 13.1





#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.67 min Scan# 2309  
Delta R.T. -0.02 min  
Lab File: BF110093.D  
Acq: 23 Oct 2018 22:27

Instrument :  
BNA\_F  
ClientSampleId :  
LOD-MDL-WATER-01-QT4-2018

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 264   | Resp: | 484764 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 22.7  | 18.7  | 28.1   |
| 265      | 20.9  | 16.7  | 25.1   |

