

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF091918\  
 Data File : BF109156.D  
 Acq On : 19 Sep 2018 20:57  
 Operator : JU/SJ  
 Sample : J4975-05  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GROUND-WATER

Quant Time: Sep 20 04:51:57 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF091418.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 14 13:26:52 2018  
 Response via : Initial Calibration

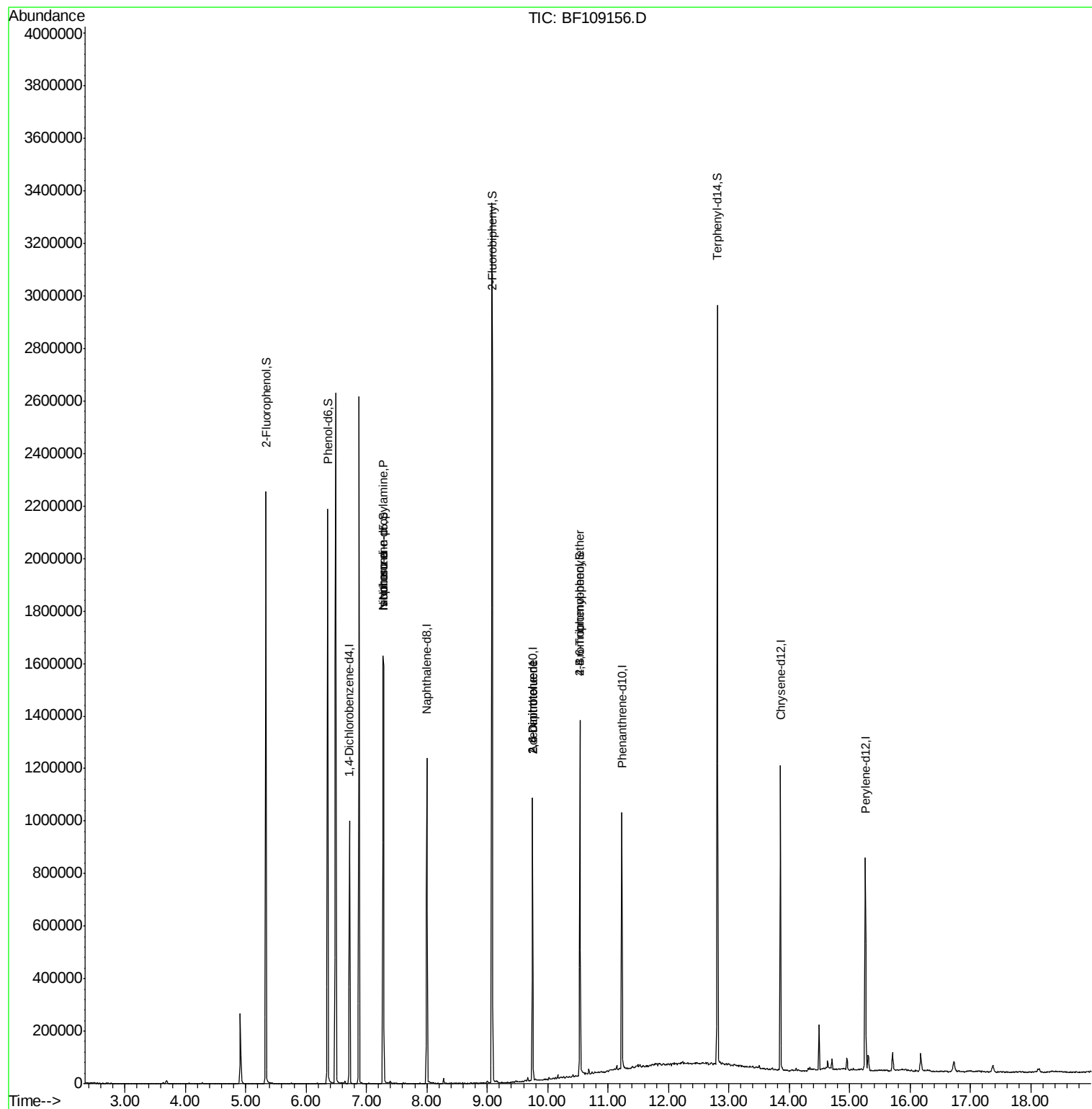
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.72  | 152  | 144893   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.00  | 136  | 519700   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.75  | 164  | 218784   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.23 | 188  | 370720   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 13.85 | 240  | 368807   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.26 | 264  | 341315   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.34  | 112  | 631090   | 72.34  | ng    | 0.01     |
| 7) Phenol-d6                   | 6.36  | 99   | 729787   | 64.88  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.28  | 82   | 600008   | 64.76  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.54 | 330  | 171440   | 72.20  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.08  | 172  | 1083892  | 77.62  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.81 | 244  | 941324   | 60.50  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.28  | 70   | 80247    | 10.792 | ng    | # 79     |
| 25) Isophorone                 | 7.28  | 82   | 595747   | 37.404 | ng    | # 64     |
| 50) 2,6-Dinitrotoluene         | 9.75  | 165  | 27625    | 7.966  | ng    | # 25     |
| 56) 2,4-Dinitrotoluene         | 9.75  | 165  | 27625    | 6.091  | ng    | # 23     |
| 66) 4-Bromophenyl-phenylether  | 10.54 | 248  | 10362    | 2.479  | ng    | # 1      |

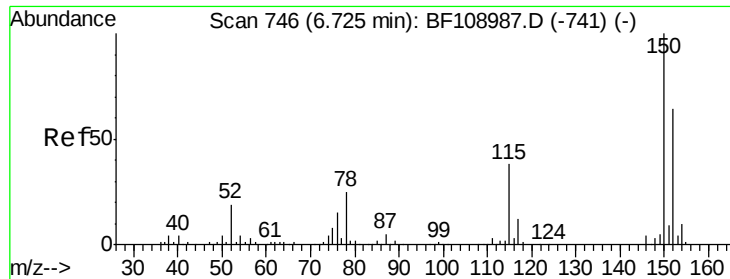
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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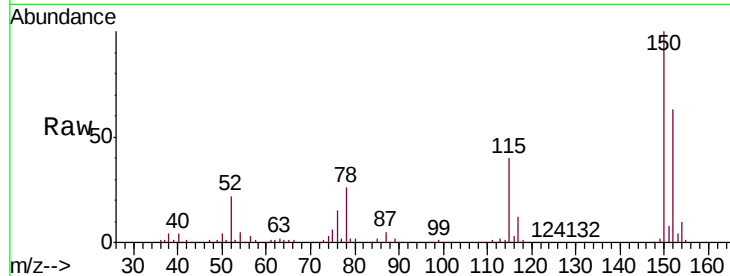




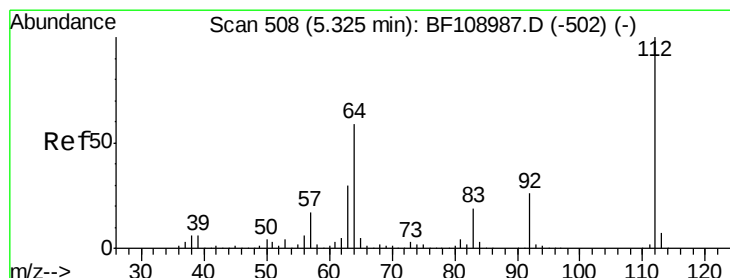
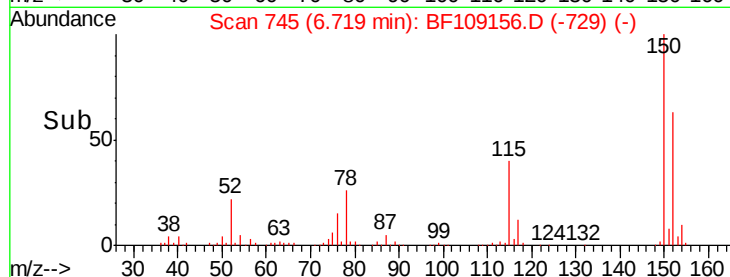
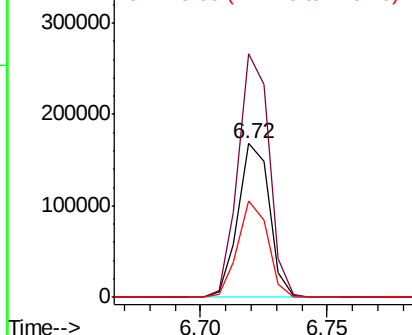
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.72 min Scan# 745  
 Delta R.T. -0.01 min  
 Lab File: BF109156.D  
 Acq: 19 Sep 2018 20:57

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GROUND-WATER

Tgt Ion:152 Resp: 144893  
 Ion Ratio Lower Upper  
 152 100  
 150 158.3 124.6 186.8  
 115 62.7 50.1 75.1

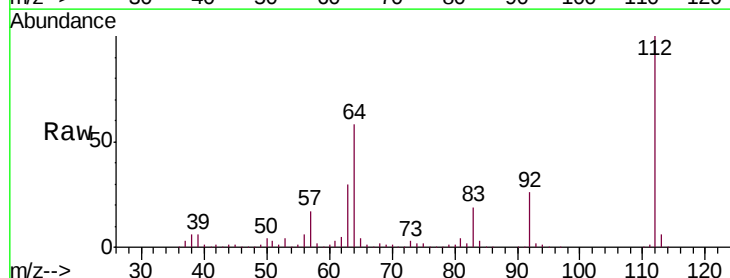


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

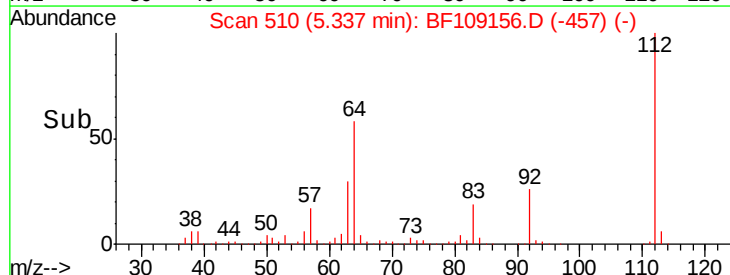
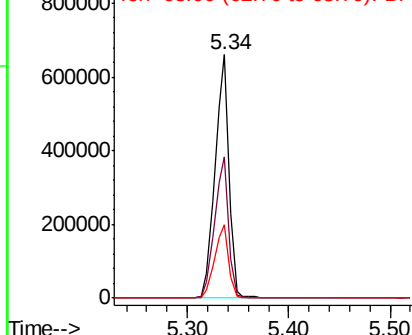


#5  
 2-Fluorophenol  
 Concen: 72.341 ng  
 RT: 5.34 min Scan# 510  
 Delta R.T. 0.01 min  
 Lab File: BF109156.D  
 Acq: 19 Sep 2018 20:57

Tgt Ion:112 Resp: 631090  
 Ion Ratio Lower Upper  
 112 100  
 64 57.9 47.9 71.9  
 63 29.9 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E  
 Ion 64.00 (63.70 to 64.70): BF1  
 Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 64.876 ng

RT: 6.36 min Scan# 684

Delta R.T. 0.00 min

Lab File: BF109156.D

Acq: 19 Sep 2018 20:57

Instrument :

BNA\_F

ClientSampleId :

GROUND-WATER

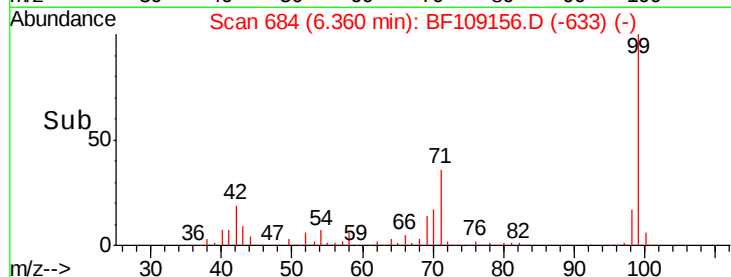
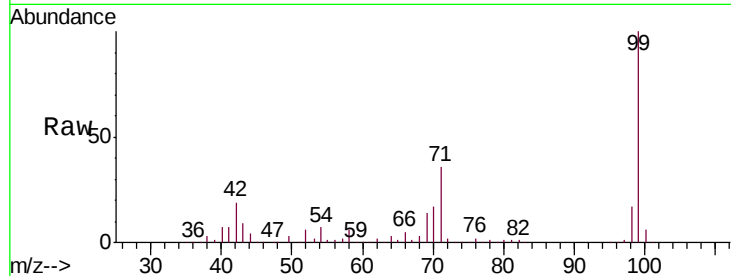
Tgt Ion: 99 Resp: 729787

Ion Ratio Lower Upper

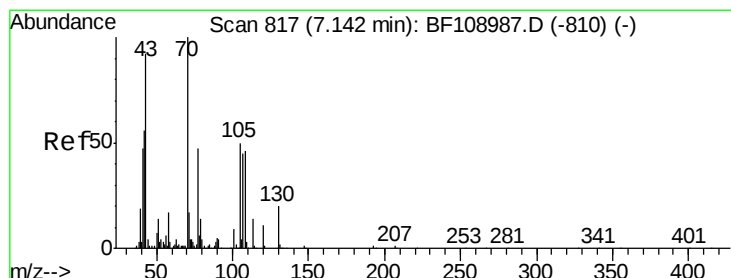
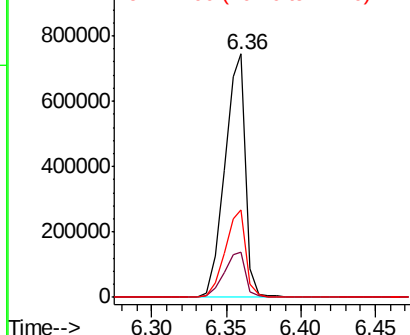
99 100

42 18.8 14.5 21.7

71 36.0 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



#19

n-Nitroso-di-n-propylamine

Concen: 10.792 ng

RT: 7.28 min Scan# 840

Delta R.T. 0.14 min

Lab File: BF109156.D

Acq: 19 Sep 2018 20:57

Tgt Ion: 70 Resp: 80247

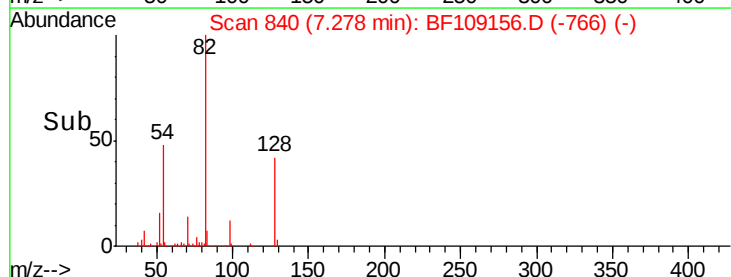
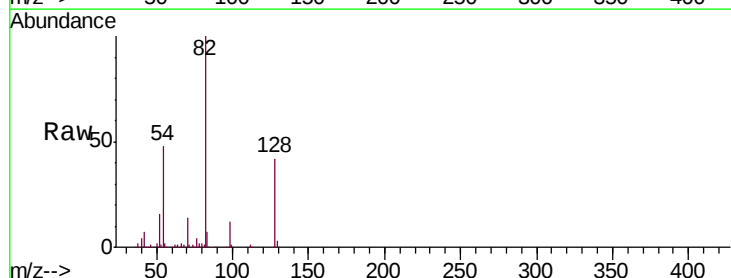
Ion Ratio Lower Upper

70 100

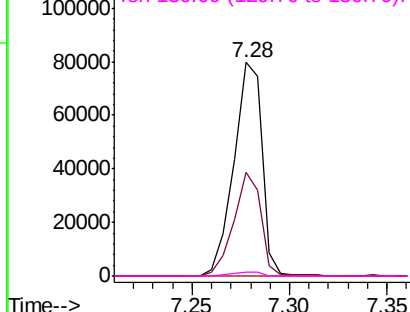
42 48.6 47.5 71.3

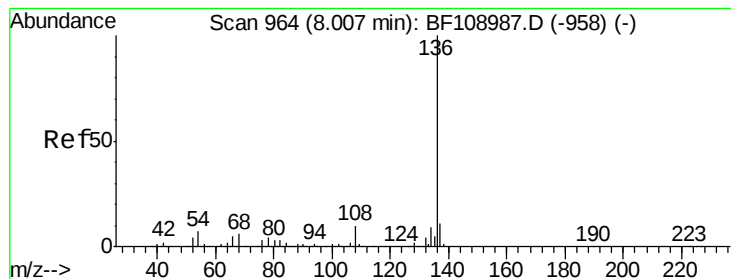
101 0.0 7.4 11.2#

130 2.1 16.6 25.0#



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: 8.00 min Scan# 963

Delta R.T. -0.01 min

Lab File: BF109156.D

Acq: 19 Sep 2018 20:57

Instrument :

BNA\_F

ClientSampleId :

GROUND-WATER

Tgt Ion:136 Resp: 519700

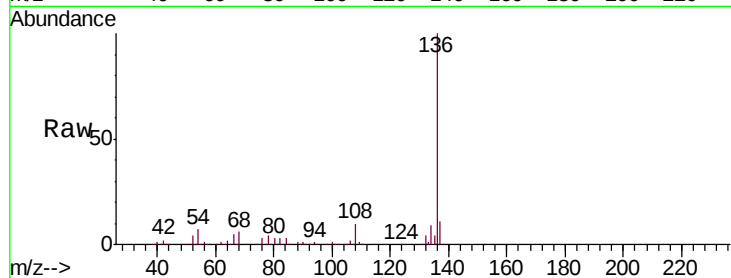
Ion Ratio Lower Upper

136 100

137 11.2 8.9 13.3

54 6.9 6.6 9.8

68 5.8 5.0 7.4

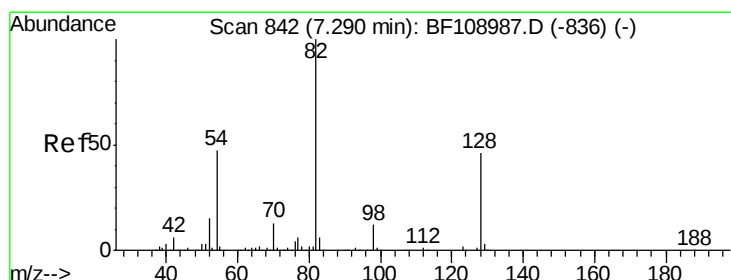
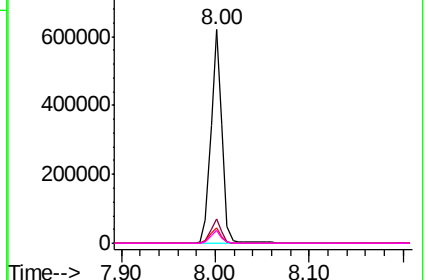
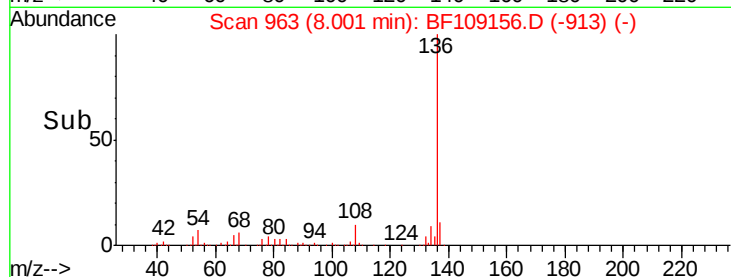


Abundance Ion 136.00 (135.70 to 136.70): E

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



#23

Nitrobenzene-d5

Concen: 64.755 ng

RT: 7.28 min Scan# 840

Delta R.T. -0.01 min

Lab File: BF109156.D

Acq: 19 Sep 2018 20:57

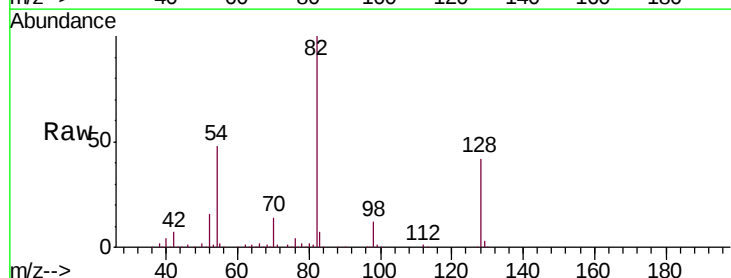
Tgt Ion: 82 Resp: 600008

Ion Ratio Lower Upper

82 100

128 41.9 36.1 54.1

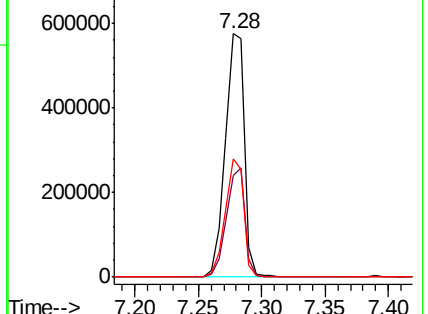
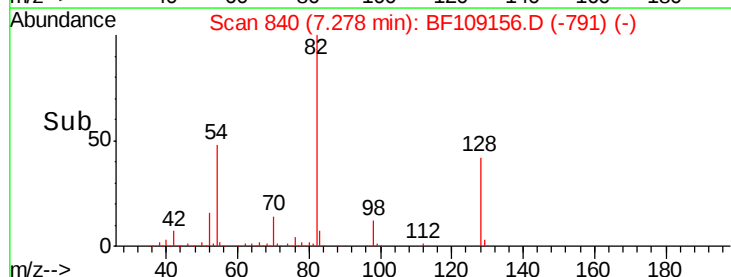
54 48.3 41.4 62.2

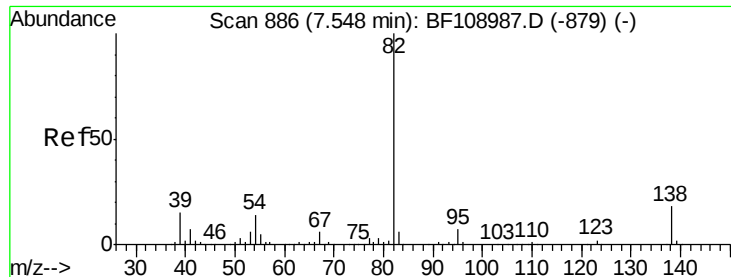


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 37.404 ng

RT: 7.28 min Scan# 840

Delta R.T. -0.27 min

Lab File: BF109156.D

Acq: 19 Sep 2018 20:57

Instrument :

BNA\_F

ClientSampleId :

GROUND-WATER

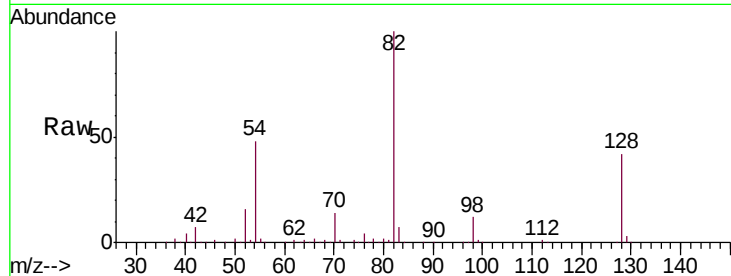
Tgt Ion: 82 Resp: 595747

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

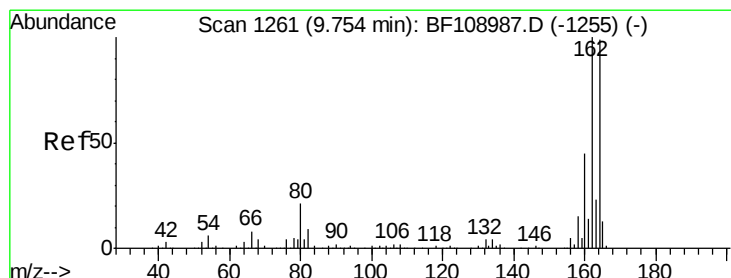
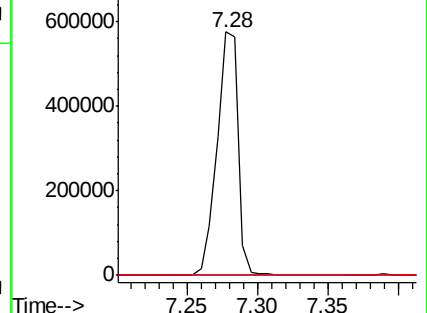
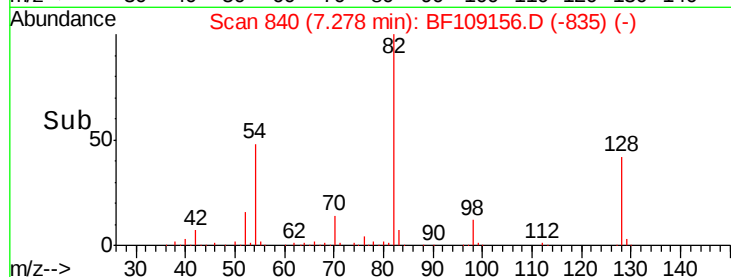
138 0.0 14.9 22.3#



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



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.75 min Scan# 1260

Delta R.T. -0.01 min

Lab File: BF109156.D

Acq: 19 Sep 2018 20:57

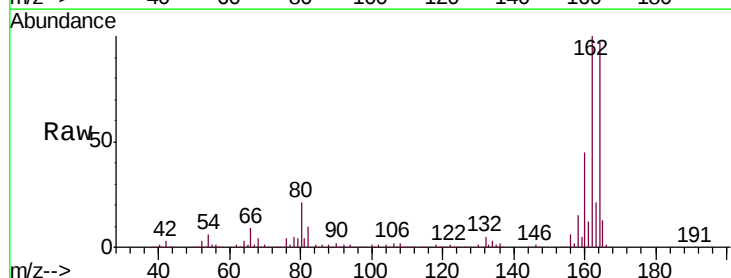
Tgt Ion: 164 Resp: 218784

Ion Ratio Lower Upper

164 100

162 103.4 86.1 129.1

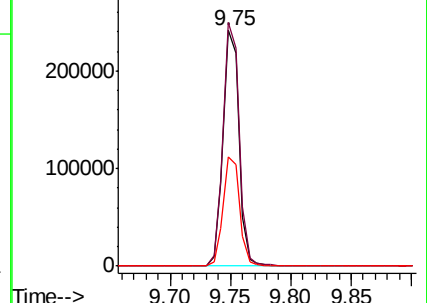
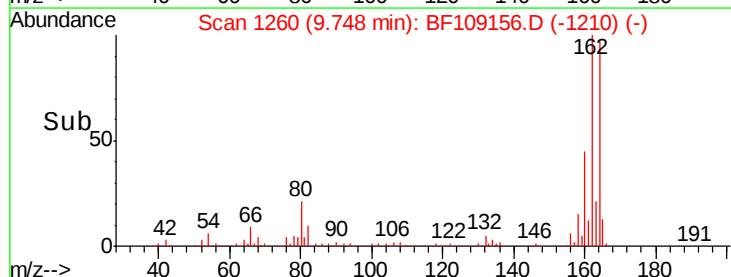
160 46.6 38.3 57.5

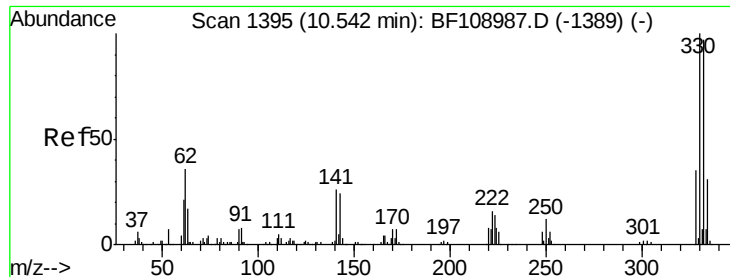


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

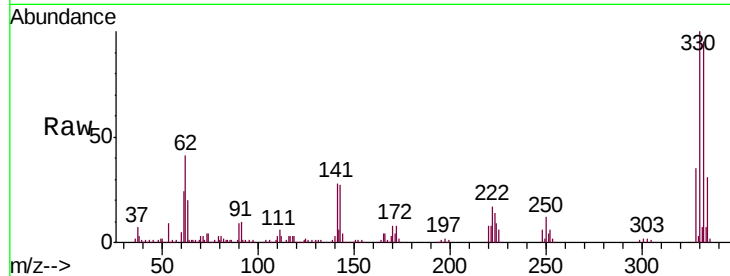




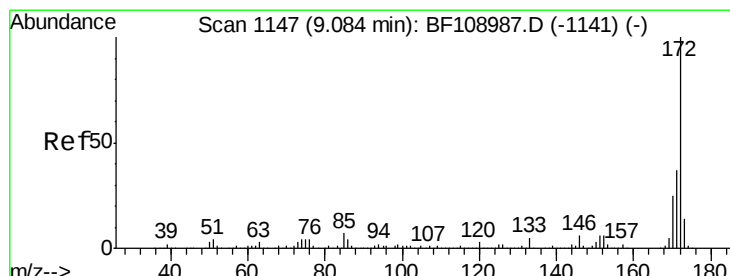
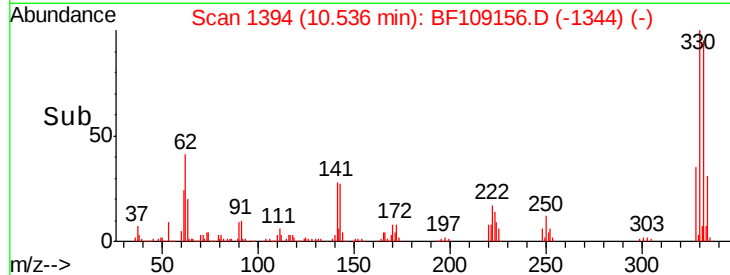
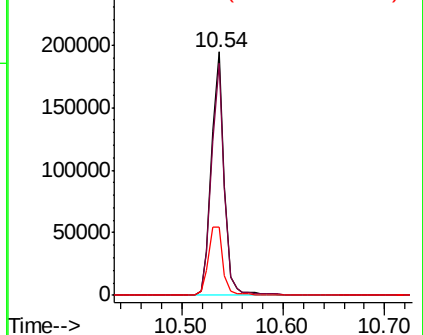
#41  
 2,4,6-Tribromophenol  
 Concen: 72.204 ng  
 RT: 10.54 min Scan# 1394  
 Delta R.T. -0.01 min  
 Lab File: BF109156.D  
 Acq: 19 Sep 2018 20:57

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GROUND-WATER

Tgt Ion:330 Resp: 171440  
 Ion Ratio Lower Upper  
 330 100  
 332 95.6 77.0 115.6  
 141 32.0 29.9 44.9

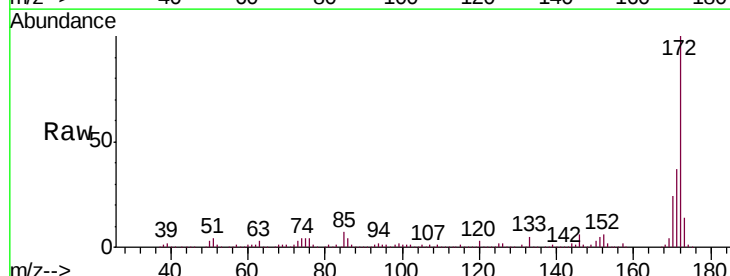


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

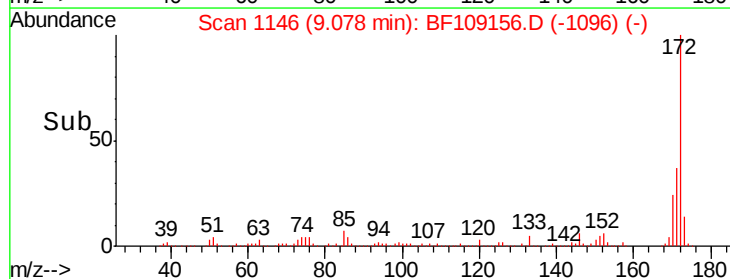
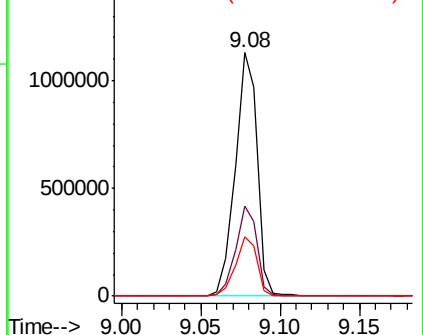


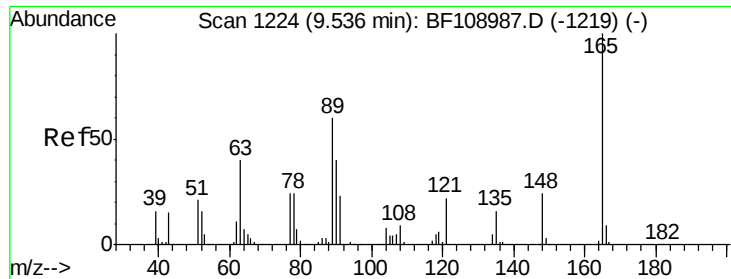
#44  
 2-Fluorobiphenyl  
 Concen: 77.618 ng  
 RT: 9.08 min Scan# 1146  
 Delta R.T. -0.01 min  
 Lab File: BF109156.D  
 Acq: 19 Sep 2018 20:57

Tgt Ion:172 Resp: 1083892  
 Ion Ratio Lower Upper  
 172 100  
 171 36.8 29.7 44.5  
 170 24.1 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

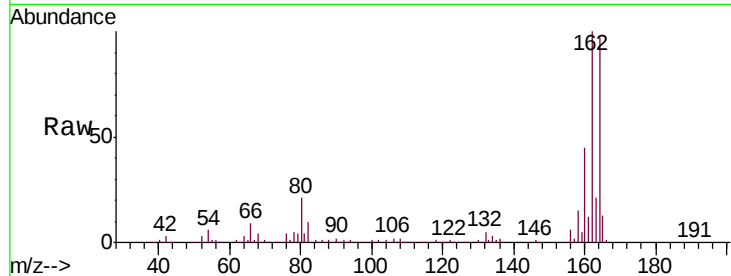




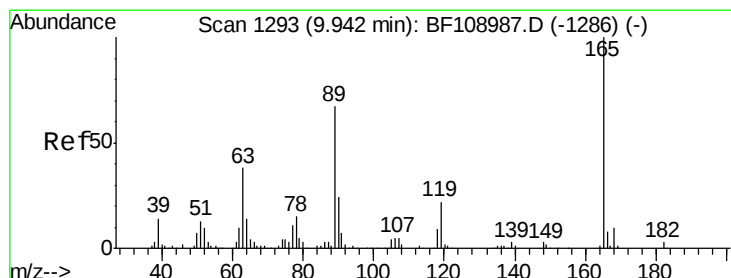
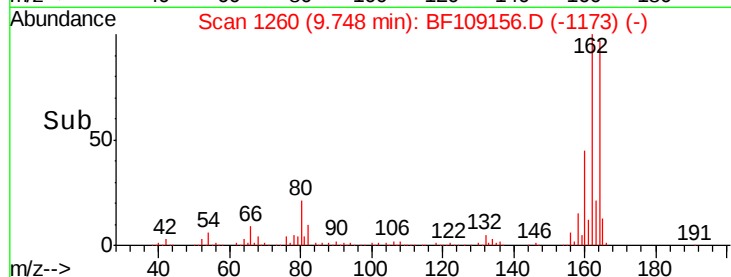
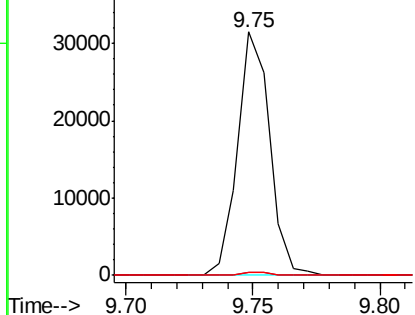
#50  
 2,6-Dinitrotoluene  
 Concen: 7.966 ng  
 RT: 9.75 min Scan# 1260  
 Delta R.T. 0.21 min  
 Lab File: BF109156.D  
 Acq: 19 Sep 2018 20:57

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GROUND-WATER

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 44.7  | 67.1# |
| 89      | 1.3   | 44.0  | 66.0# |



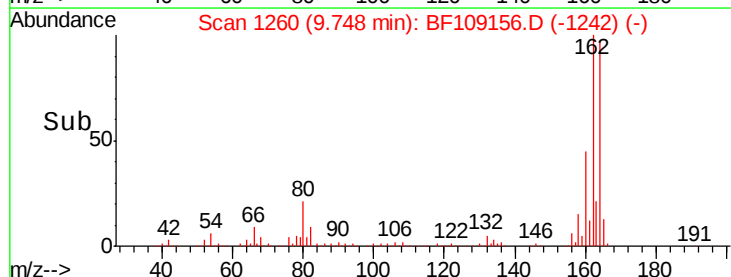
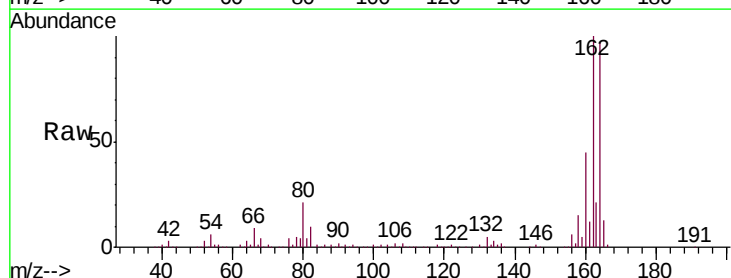
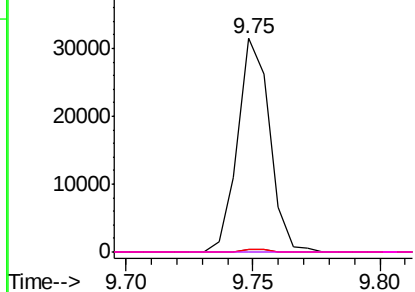
Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1

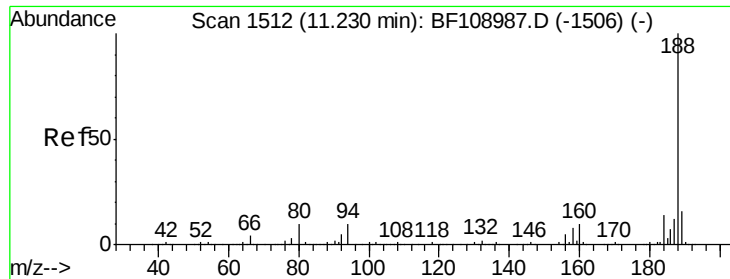


#56  
 2,4-Dinitrotoluene  
 Concen: 6.091 ng  
 RT: 9.75 min Scan# 1260  
 Delta R.T. -0.19 min  
 Lab File: BF109156.D  
 Acq: 19 Sep 2018 20:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 36.4  | 54.6# |
| 89      | 1.3   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |

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

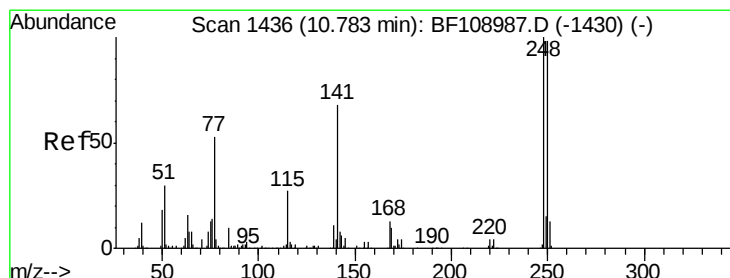
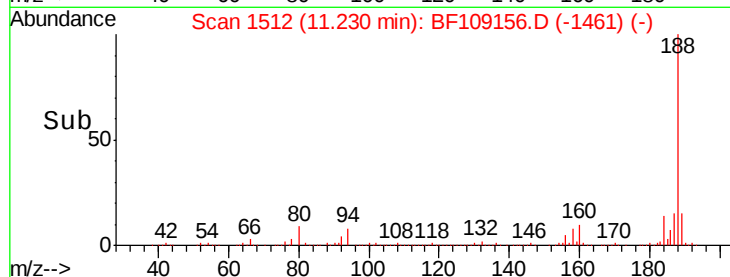
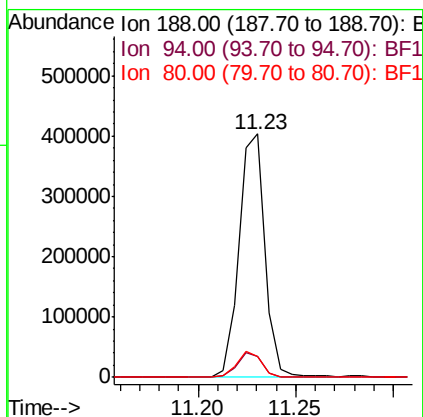
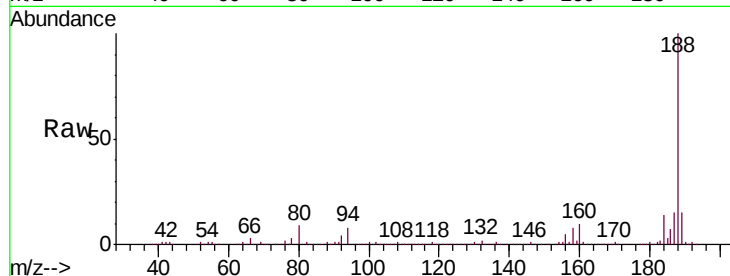




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.23 min Scan# 1512  
Delta R.T. 0.00 min  
Lab File: BF109156.D  
Acq: 19 Sep 2018 20:57

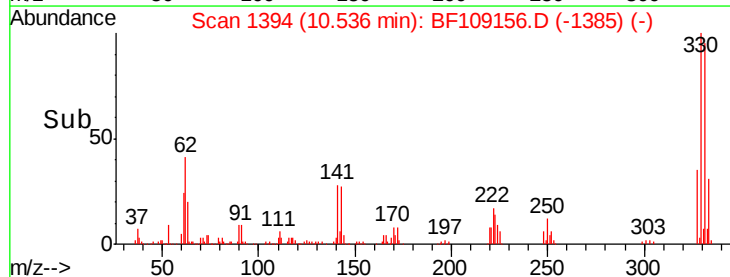
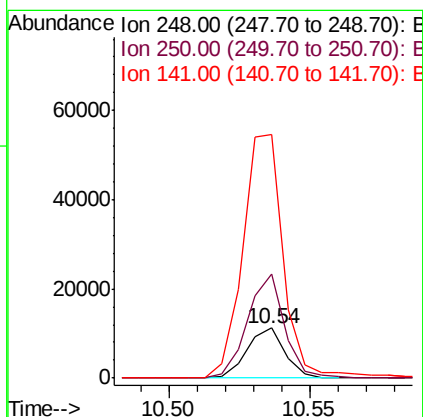
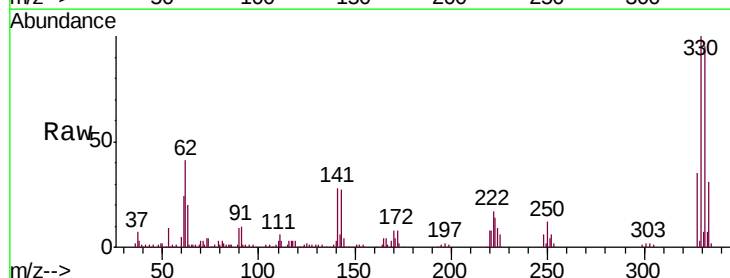
Instrument :  
BNA\_F  
ClientSampleId :  
GROUND-WATER

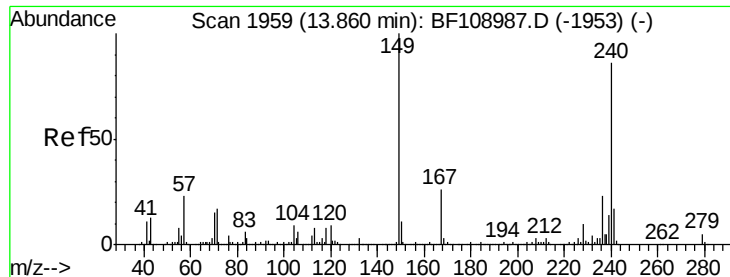
Tgt Ion:188 Resp: 370720  
Ion Ratio Lower Upper  
188 100  
94 8.4 8.5 12.7#  
80 8.7 9.2 13.8#



#66  
4-Bromophenyl-phenylether  
Concen: 2.479 ng  
RT: 10.54 min Scan# 1394  
Delta R.T. -0.25 min  
Lab File: BF109156.D  
Acq: 19 Sep 2018 20:57

Tgt Ion:248 Resp: 10362  
Ion Ratio Lower Upper  
248 100  
250 207.1 76.9 115.3#  
141 486.1 74.4 111.6#





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.85 min Scan# 1958

Delta R.T. -0.01 min

Lab File: BF109156.D

Acq: 19 Sep 2018 20:57

Instrument :

BNA\_F

ClientSampleId :

GROUND-WATER

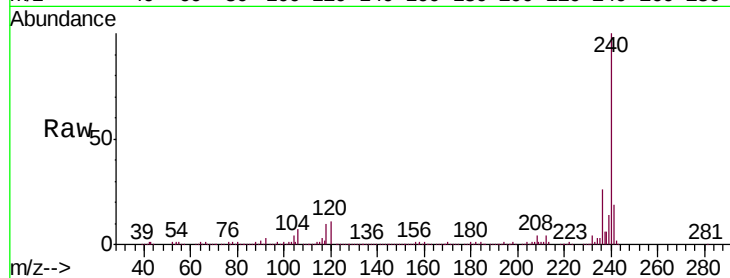
Tgt Ion:240 Resp: 368807

Ion Ratio Lower Upper

240 100

120 11.1 9.5 14.3

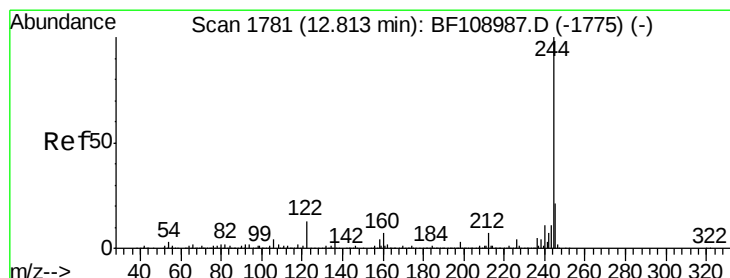
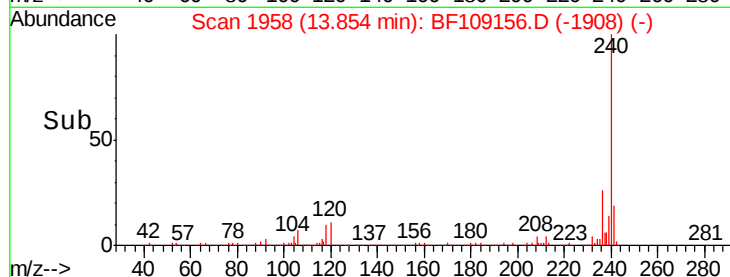
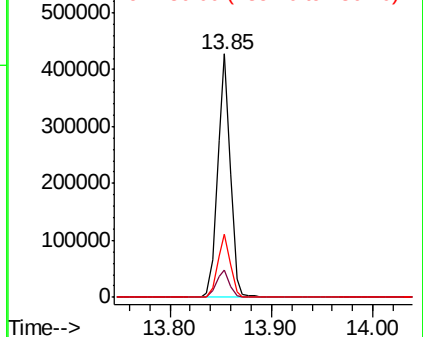
236 25.9 20.7 31.1



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: 60.497 ng

RT: 12.81 min Scan# 1781

Delta R.T. 0.00 min

Lab File: BF109156.D

Acq: 19 Sep 2018 20:57

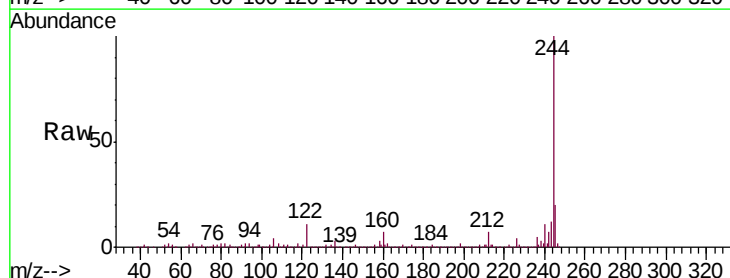
Tgt Ion:244 Resp: 941324

Ion Ratio Lower Upper

244 100

212 7.1 5.4 8.0

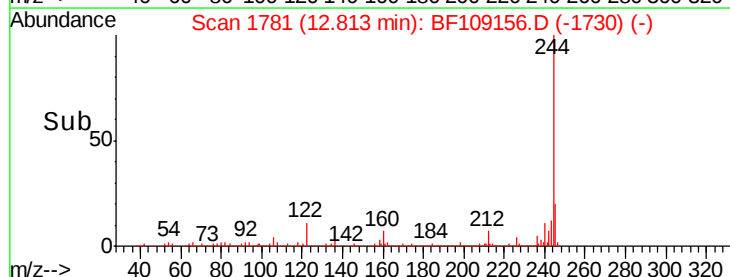
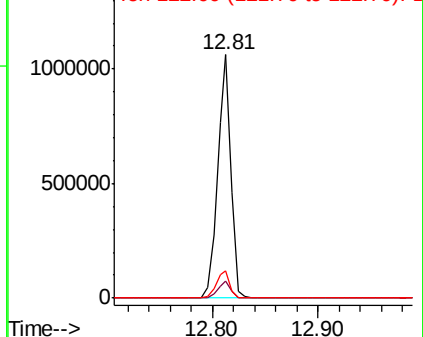
122 11.3 11.0 16.4

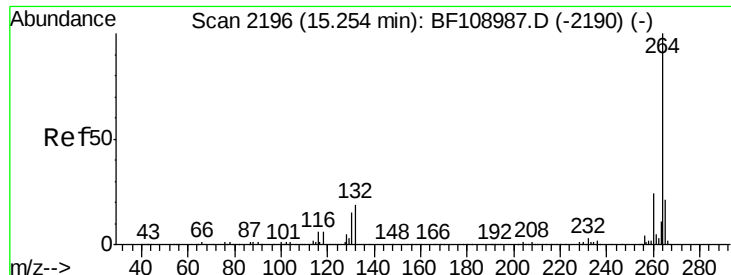


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

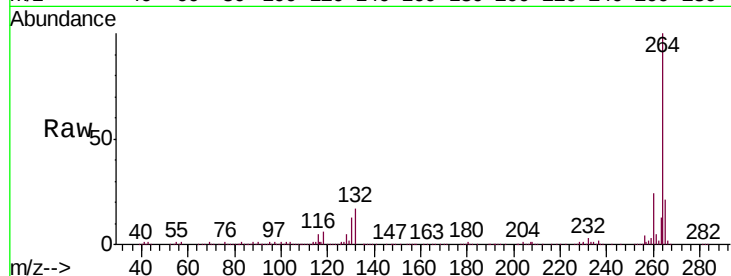




#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.26 min Scan# 2197  
Delta R.T. 0.01 min  
Lab File: BF109156.D  
Acq: 19 Sep 2018 20:57

Instrument :  
BNA\_F  
ClientSampleId :  
GROUND-WATER

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.9  | 19.2  | 28.8  |
| 265     | 20.8  | 17.5  | 26.3  |



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

