

Data Path : Z:\HPCHEM1\BNA F\Data\BF051816\  
 Data File : BF087148.D  
 Acq On : 18 May 2016 17:22  
 Operator : UM/SJ  
 Sample : H3136-02DL 2X  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GROUNDWATERDL

Quant Time: May 18 18:08:00 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF051716.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 18 17:13:00 2016  
 Response via : Initial Calibration

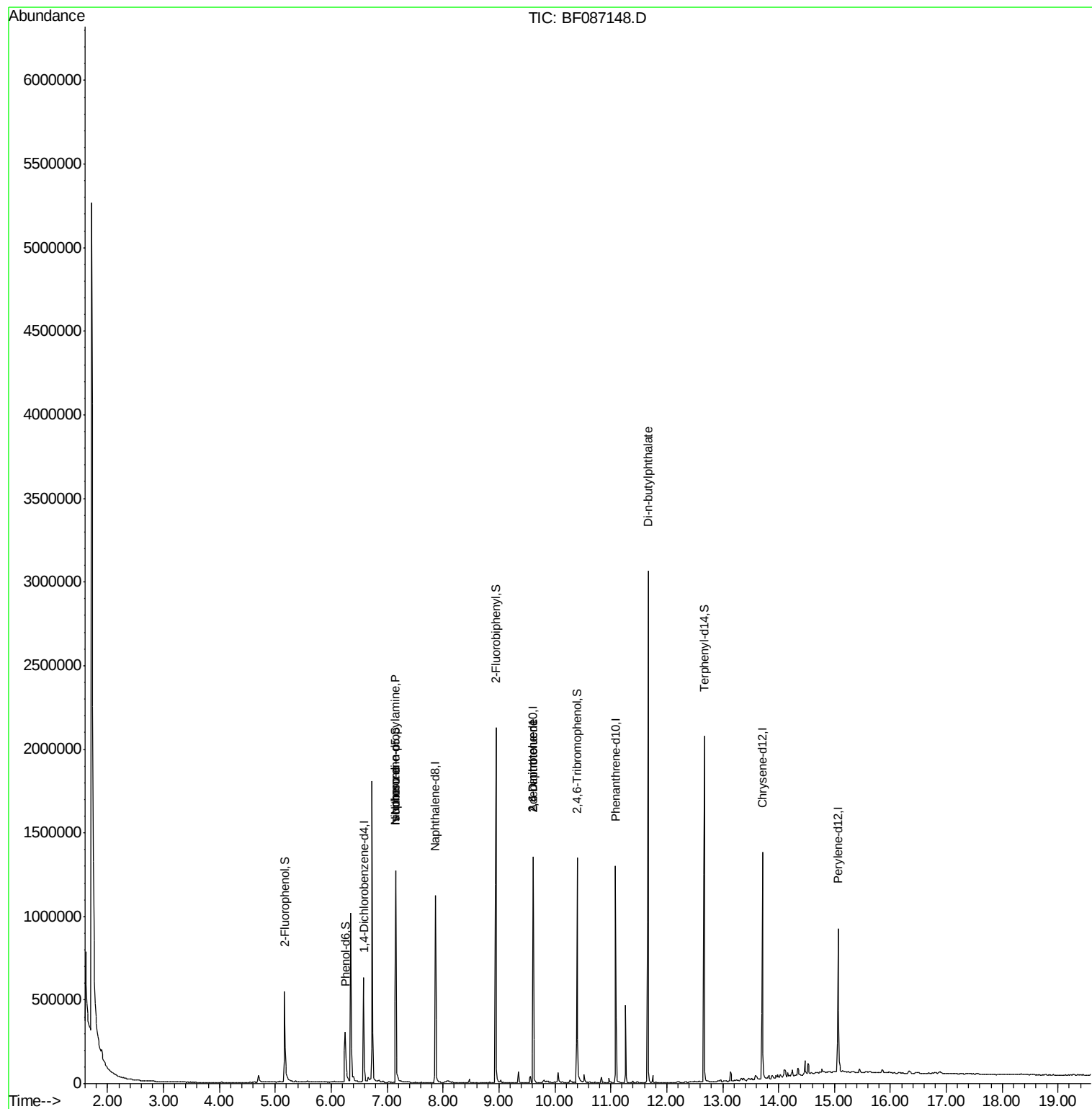
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.58  | 152  | 124817   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8             | 7.86  | 136  | 513657   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.61  | 164  | 247279   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.08 | 188  | 470924   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12               | 13.71 | 240  | 449251   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12               | 15.06 | 264  | 366001   | 20.00 | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.16  | 112  | 201488   | 27.13 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.25  | 99   | 173002   | 17.37 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.15  | 82   | 452601   | 43.91 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.40 | 330  | 148846   | 54.47 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 8.95  | 172  | 787622   | 52.75 | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.67 | 244  | 754599   | 38.00 | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.15  | 70   | 61602    | 8.14  | ng    | # 77     |
| 25) Isophorone                 | 7.15  | 82   | 456486   | 24.20 | ng    | # 68     |
| 50) 2,6-Dinitrotoluene         | 9.61  | 165  | 31321    | 7.65  | ng    | # 21     |
| 56) 2,4-Dinitrotoluene         | 9.61  | 165  | 31321    | 5.97  | ng    | # 16     |
| 73) Di-n-butylphthalate        | 11.67 | 149  | 1451635  | 53.55 | ng    | 99       |

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

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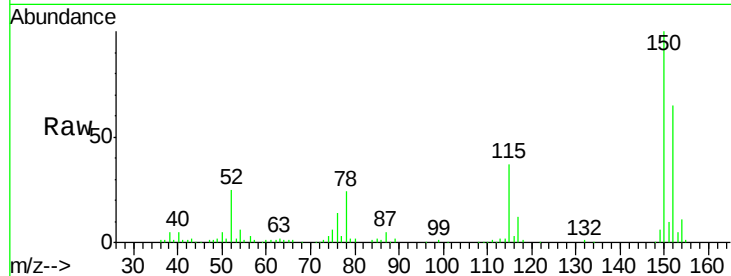


#1

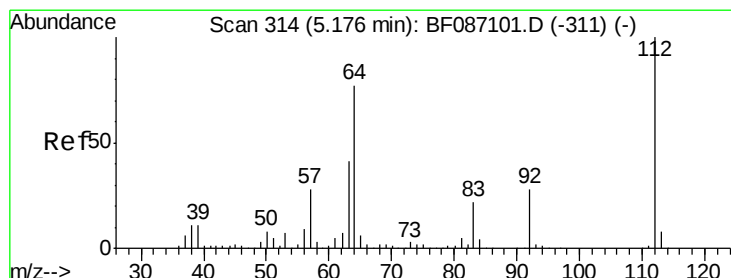
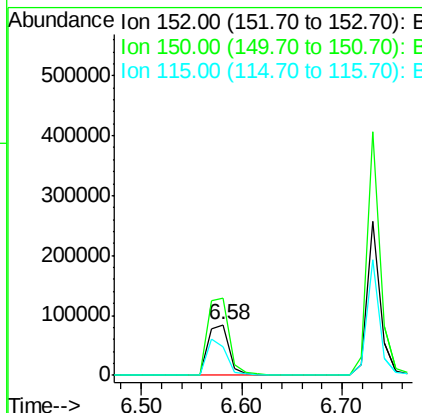
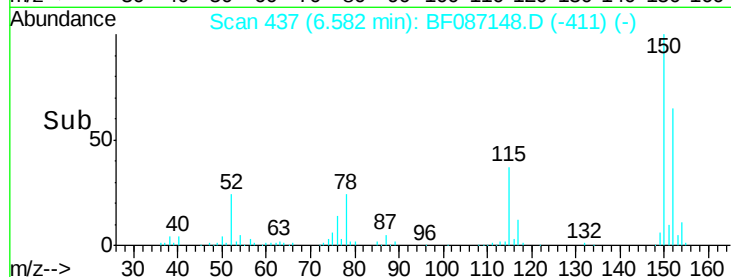
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.58 min Scan# 437  
Delta R.T. 0.00 min  
Lab File: BF087148.D  
Acq: 18 May 2016 17:22

Instrument :  
BNA\_F  
ClientSampleId :  
GROUNDWATERDL

Tot Ion:152 Resp: 124817  
Ion Ratio Lower Upper  
152 100  
150 154.2 125.8 188.6  
115 57.7 51.5 77.3



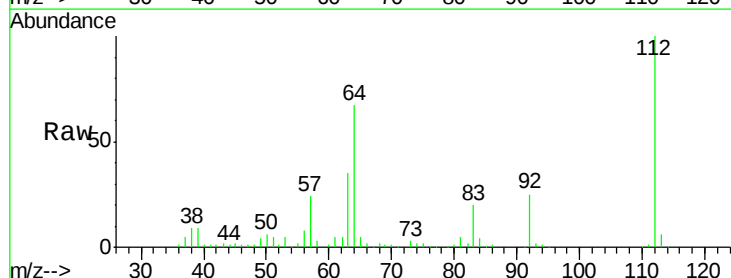
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



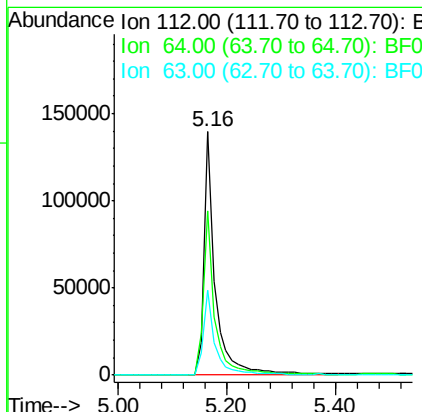
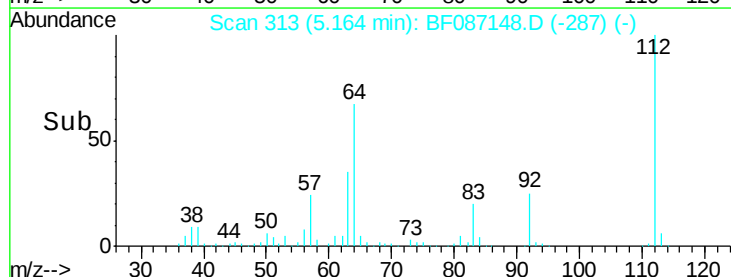
#5

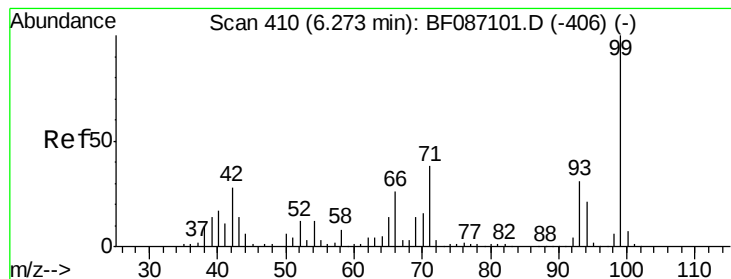
2-Fluorophenol  
Concen: 27.13 ng  
RT: 5.16 min Scan# 313  
Delta R.T. 0.00 min  
Lab File: BF087148.D  
Acq: 18 May 2016 17:22

Tgt Ion:112 Resp: 201488  
Ion Ratio Lower Upper  
112 100  
64 67.3 52.1 78.1  
63 35.1 25.7 38.5



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF0  
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 17.37 ng

RT: 6.25 min Scan# 408

Delta R.T. 0.00 min

Lab File: BF087148.D

Acq: 18 May 2016 17:22

Instrument :

BNA\_F

ClientSampleId :

GROUNDWATERDL

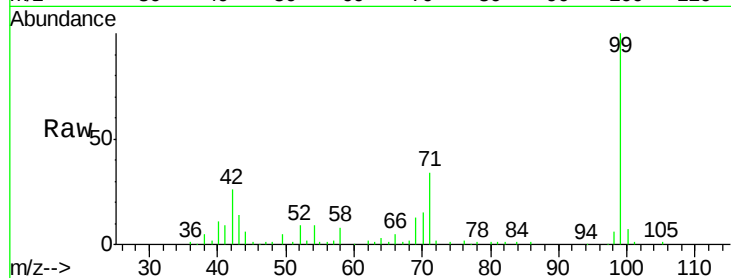
Tot Ion: 99 Resp: 173002

Ion Ratio Lower Upper

99 100

42 25.6 13.6 20.4#

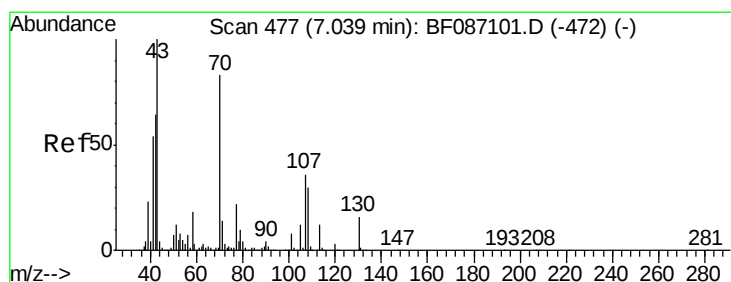
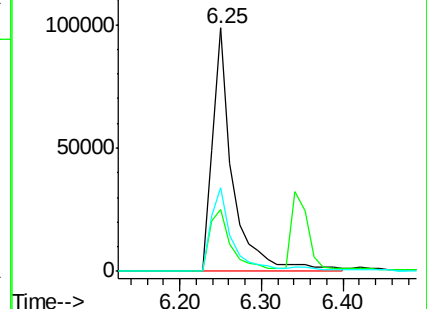
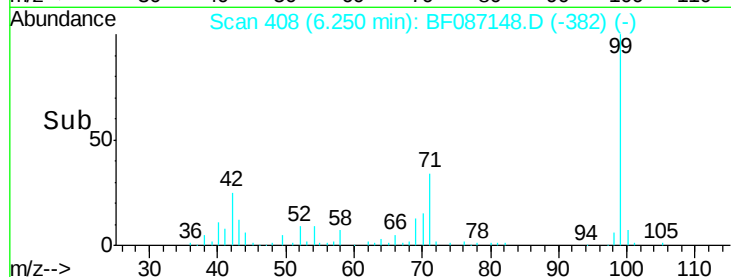
71 34.4 24.6 36.8



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 8.14 ng

RT: 7.15 min Scan# 487

Delta R.T. 0.14 min

Lab File: BF087148.D

Acq: 18 May 2016 17:22

Tgt Ion: 70 Resp: 61602

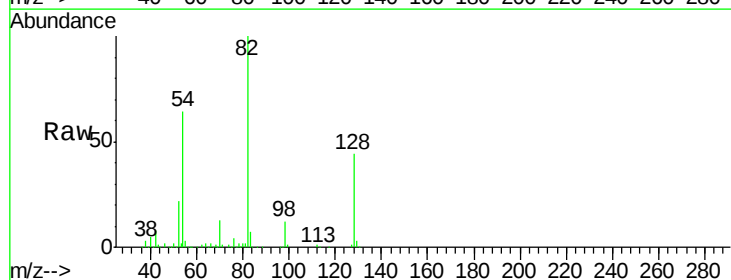
Ion Ratio Lower Upper

70 100

42 63.0 43.1 64.7

101 0.0 8.1 12.1#

130 2.0 18.6 28.0#

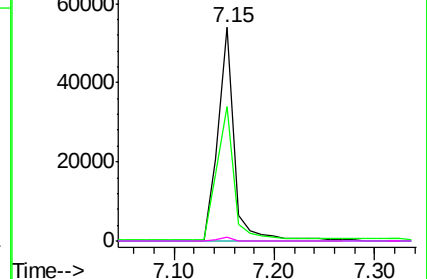
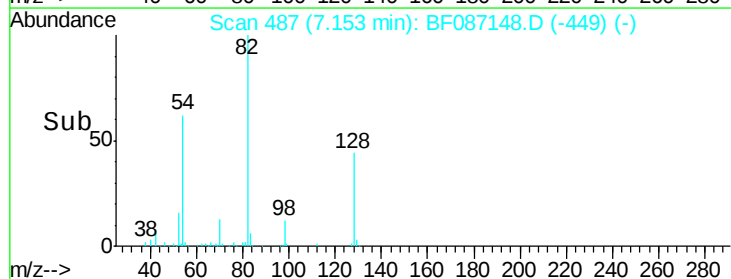


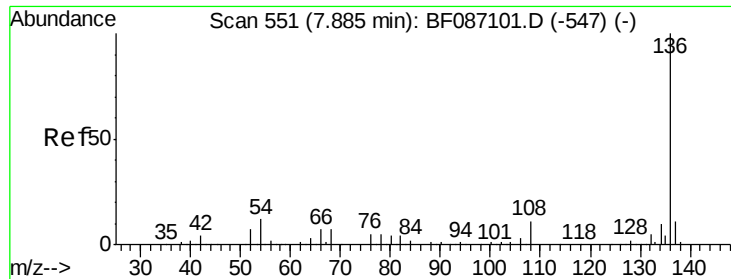
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

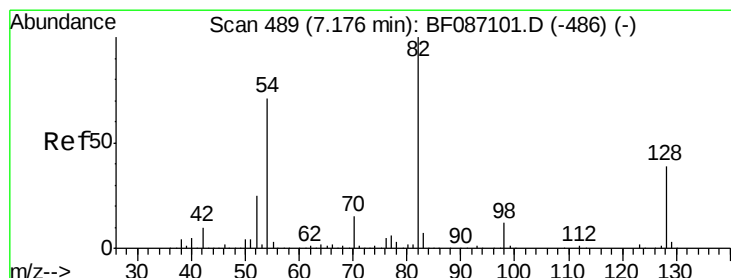
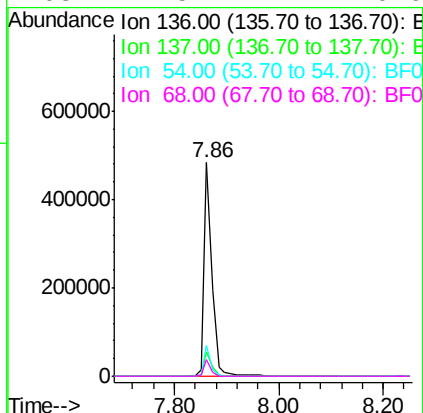
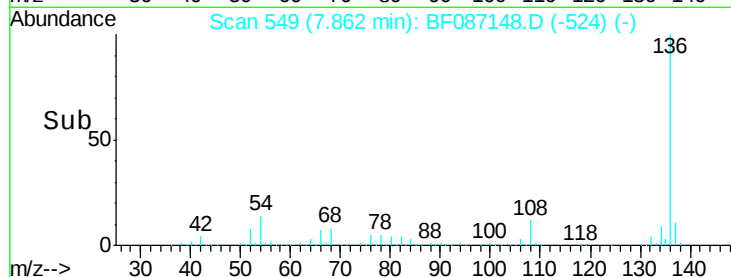
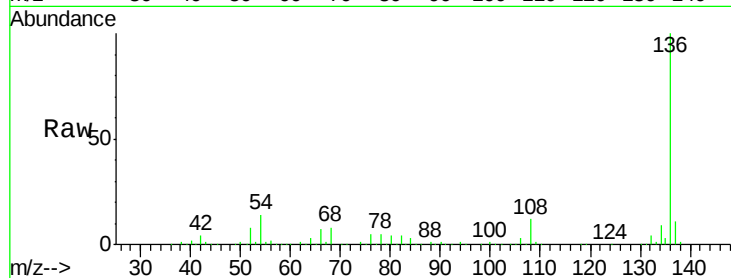




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.86 min Scan# 549  
Delta R.T. -0.01 min  
Lab File: BF087148.D  
Acq: 18 May 2016 17:22

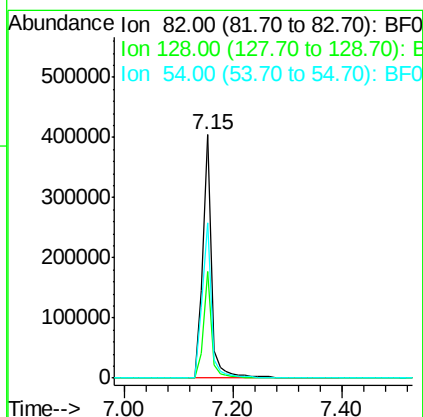
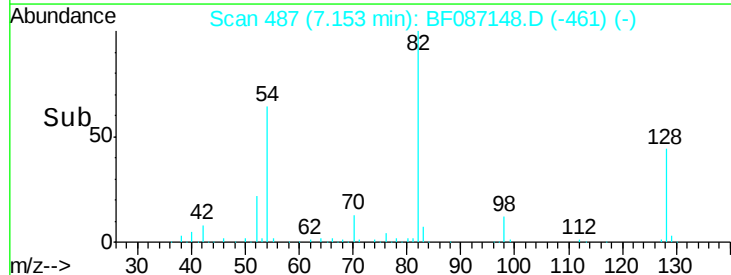
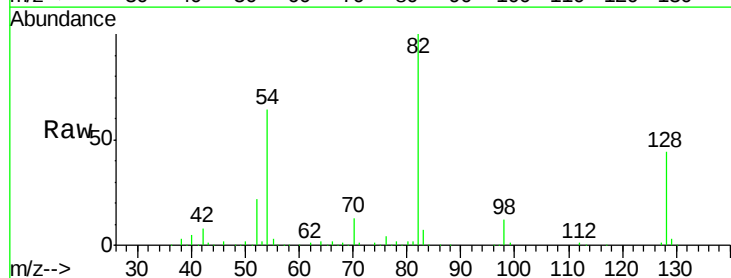
Instrument :  
BNA\_F  
ClientSampleId :  
GROUNDWATERDL

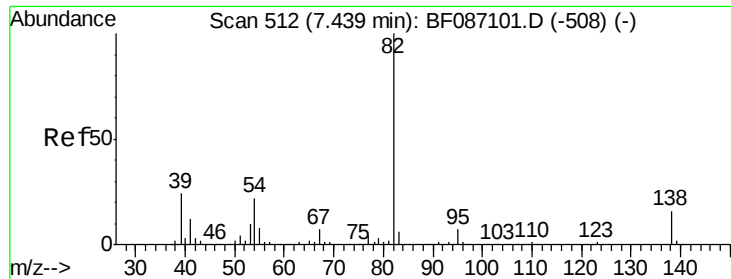
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 513657 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.2  | 8.8   | 13.2   |
| 54       | 14.2  | 5.0   | 7.4#   |
| 68       | 7.5   | 4.4   | 6.6#   |



#23  
Nitrobenzene-d5  
Concen: 43.91 ng  
RT: 7.15 min Scan# 487  
Delta R.T. 0.00 min  
Lab File: BF087148.D  
Acq: 18 May 2016 17:22

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 452601 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 44.0  | 40.6  | 61.0   |
| 54       | 63.8  | 38.1  | 57.1#  |





#25

Isophorone

Concen: 24.20 ng

RT: 7.15 min Scan# 487

Delta R.T. -0.26 min

Lab File: BF087148.D

Acq: 18 May 2016 17:22

Instrument :

BNA\_F

ClientSampleID :

GROUNDWATERDL

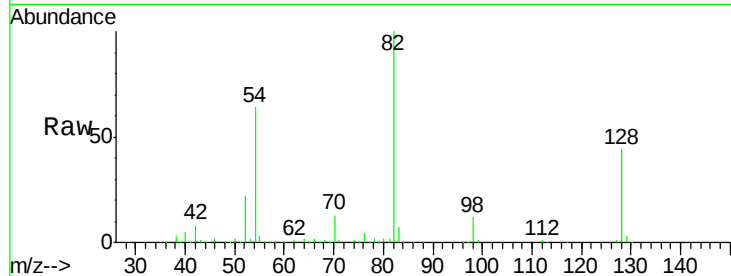
Tot Ion: 82 Resp: 456486

Ion Ratio Lower Upper

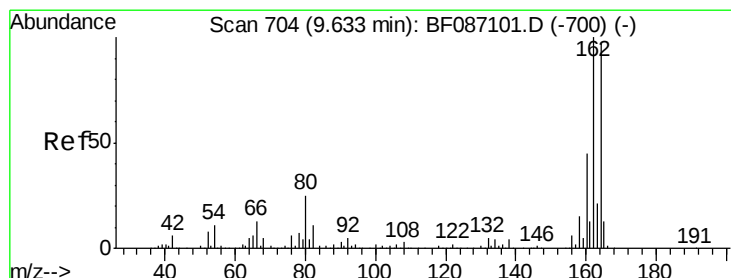
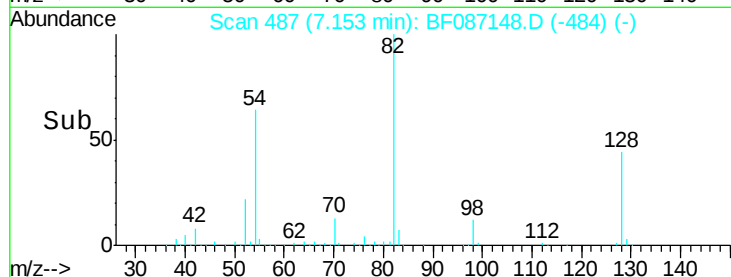
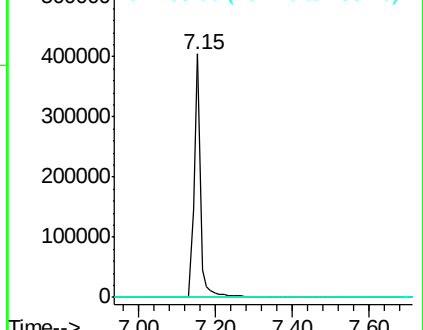
82 100

95 0.0 5.1 7.7#

138 0.0 12.4 18.6#



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 95.00 (94.70 to 95.70): BF0  
Ion 138.00 (137.70 to 138.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.61 min Scan# 702

Delta R.T. -0.01 min

Lab File: BF087148.D

Acq: 18 May 2016 17:22

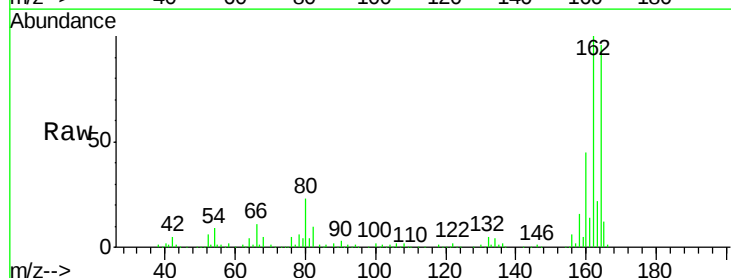
Tgt Ion: 164 Resp: 247279

Ion Ratio Lower Upper

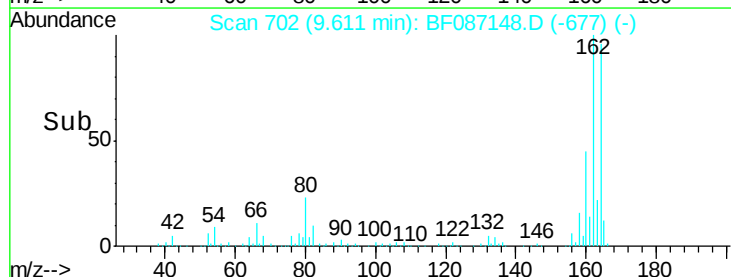
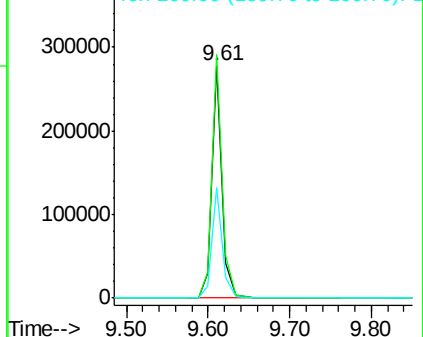
164 100

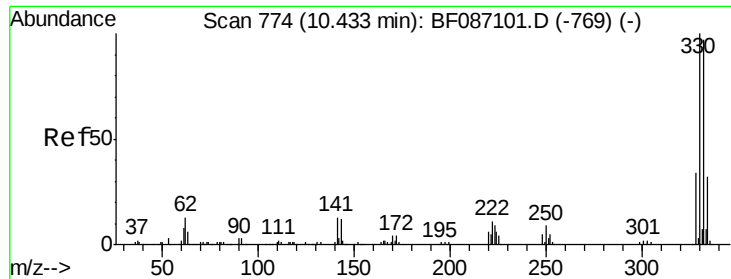
162 104.6 82.8 124.2

160 47.2 36.9 55.3



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

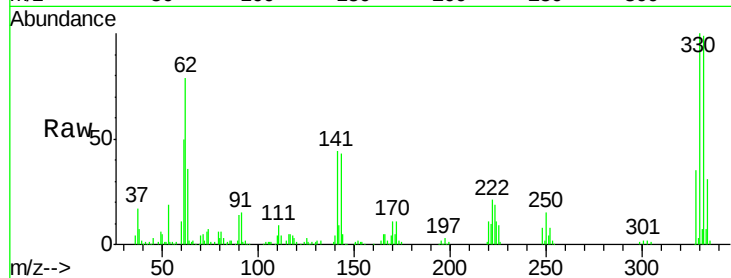




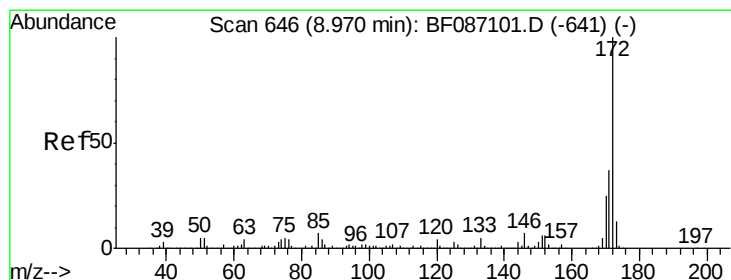
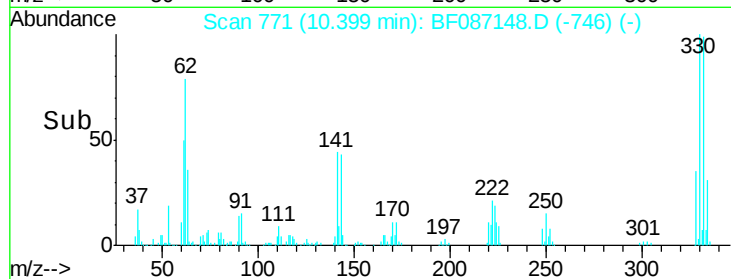
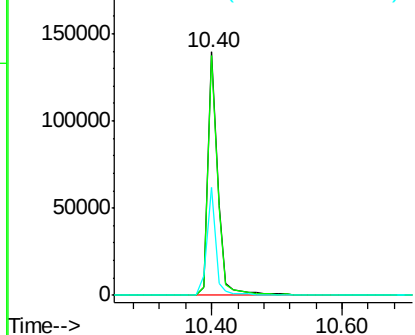
#41  
 2,4,6-Tribromophenol  
 Concen: 54.47 ng  
 RT: 10.40 min Scan# 771  
 Delta R.T. -0.01 min  
 Lab File: BF087148.D  
 Acq: 18 May 2016 17:22

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GROUNDWATERDL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.7  | 79.0  | 118.4 |
| 141     | 39.9  | 31.2  | 46.8  |

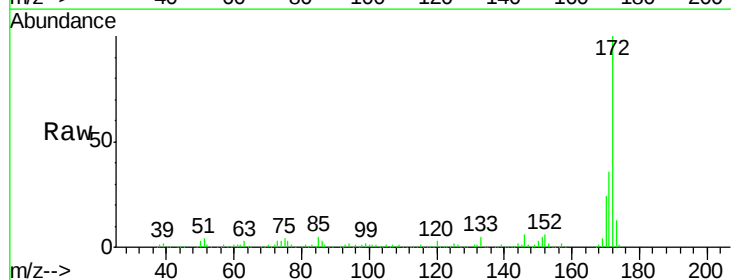


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

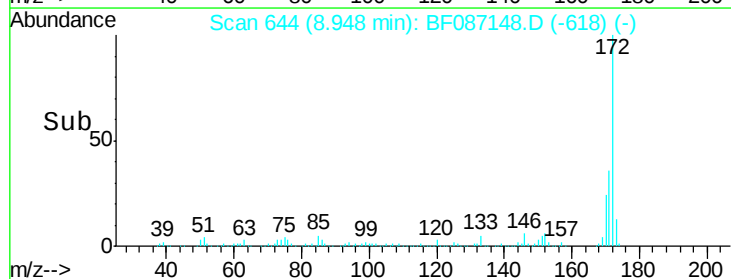
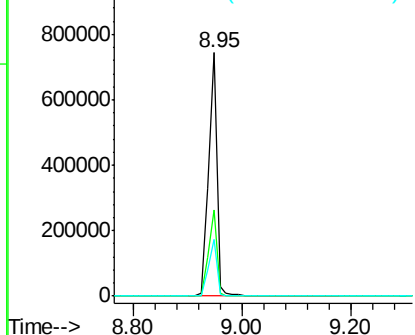


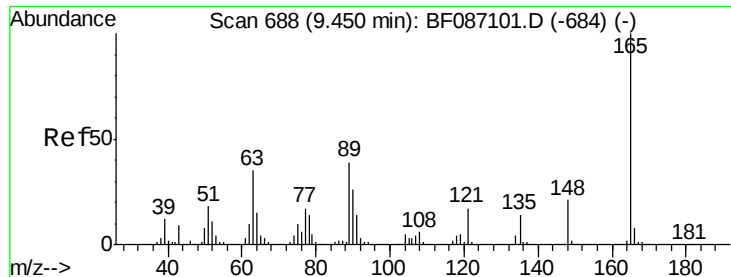
#44  
 2-Fluorobiphenyl  
 Concen: 52.75 ng  
 RT: 8.95 min Scan# 644  
 Delta R.T. 0.00 min  
 Lab File: BF087148.D  
 Acq: 18 May 2016 17:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.5  | 29.0  | 43.6  |
| 170     | 23.6  | 19.8  | 29.8  |



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: 7.65 ng

RT: 9.61 min Scan# 702

Delta R.T. 0.18 min

Lab File: BF087148.D

Acq: 18 May 2016 17:22

Instrument :

BNA\_F

ClientSampleId :

GROUNDWATERDL

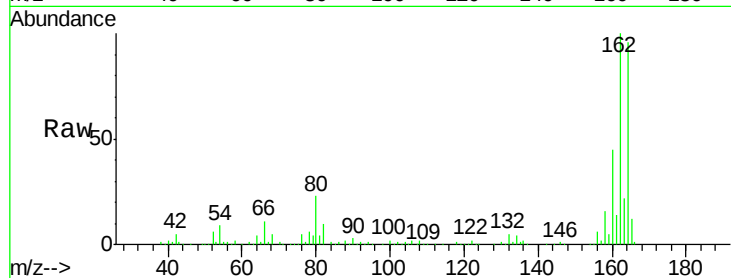
Tot Ion:165 Resp: 31321

Ion Ratio Lower Upper

165 100

63 1.6 51.8 77.8#

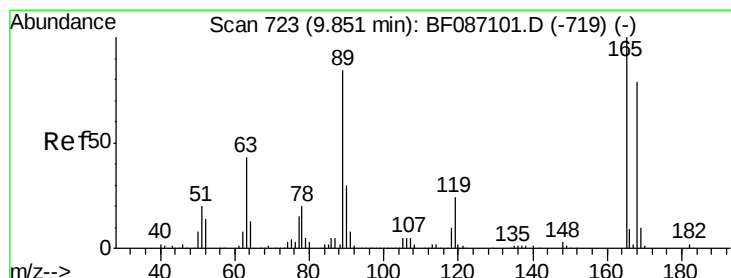
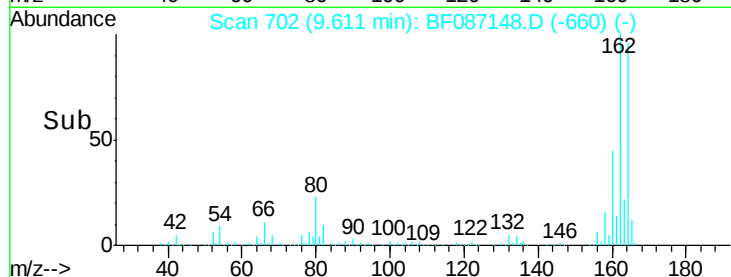
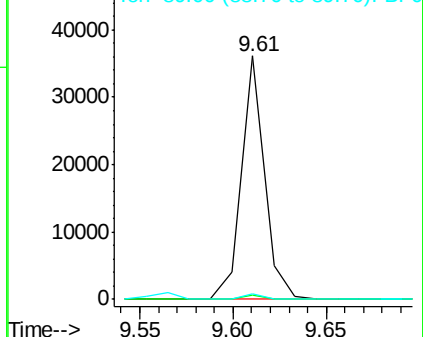
89 2.2 50.7 76.1#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#56

2,4-Dinitrotoluene

Concen: 5.97 ng

RT: 9.61 min Scan# 702

Delta R.T. -0.22 min

Lab File: BF087148.D

Acq: 18 May 2016 17:22

Tgt Ion:165 Resp: 31321

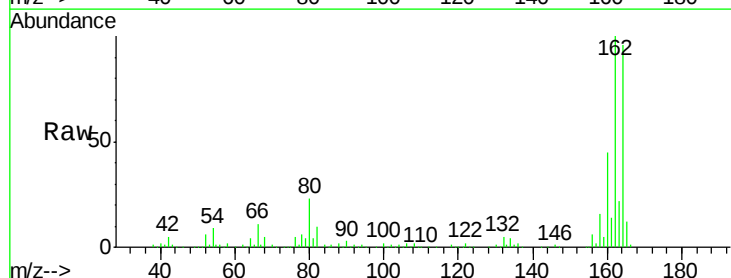
Ion Ratio Lower Upper

165 100

63 1.6 44.3 66.5#

89 2.2 70.0 105.0#

182 0.0 1.8 2.6#

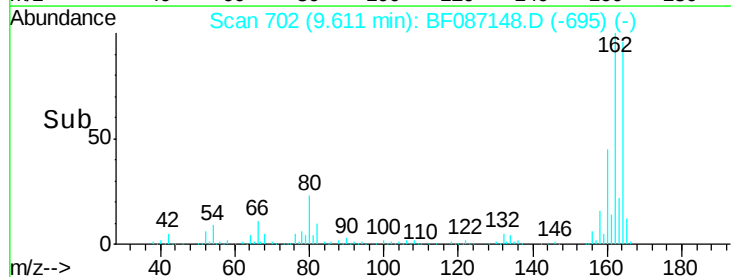
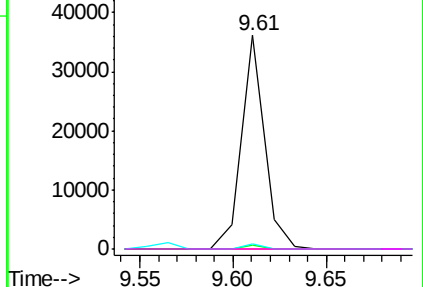


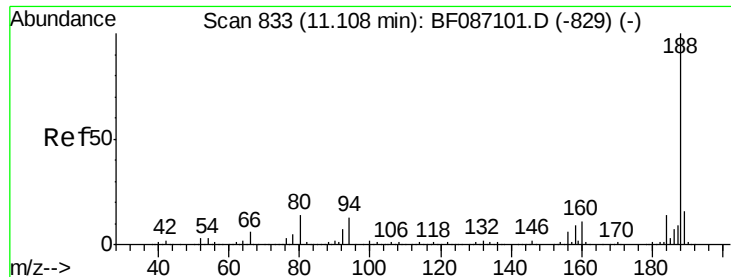
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

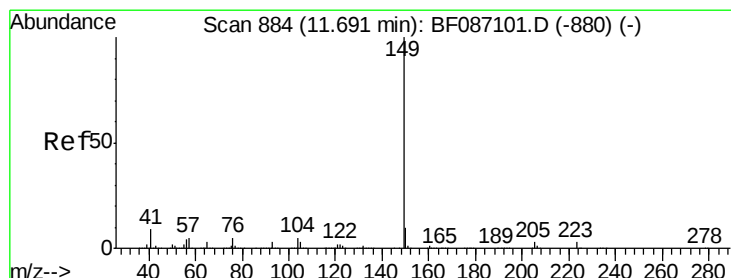
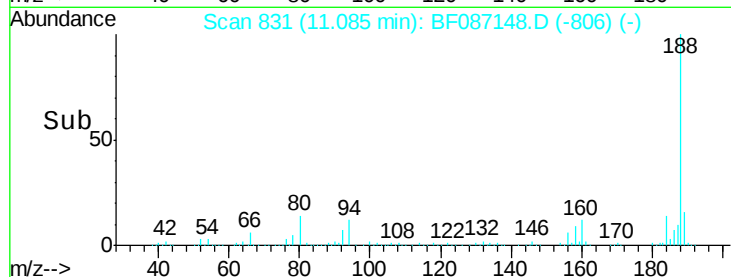
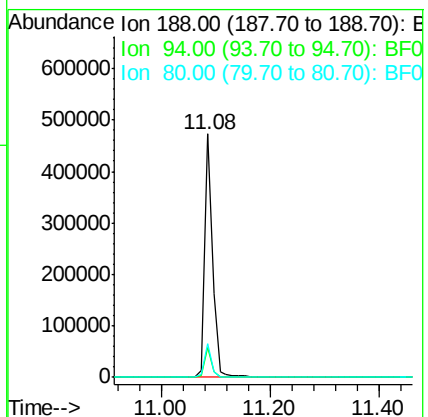
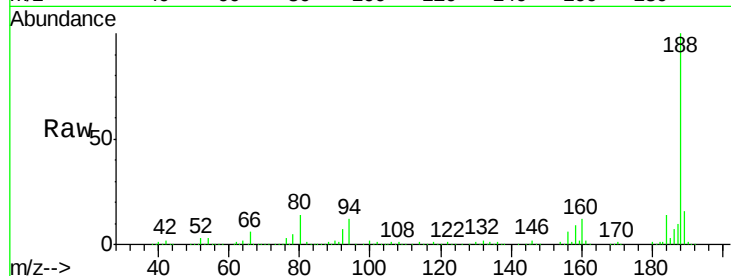




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.08 min Scan# 831  
Delta R.T. -0.01 min  
Lab File: BF087148.D  
Acq: 18 May 2016 17:22

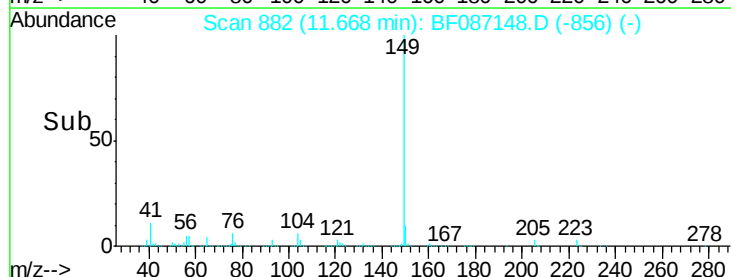
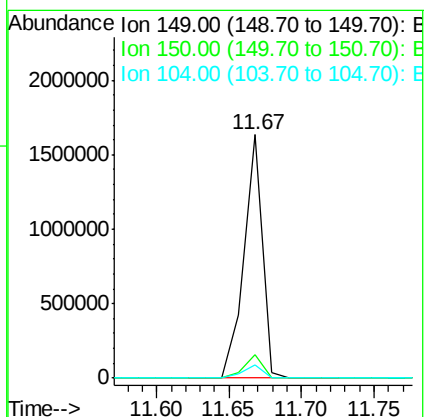
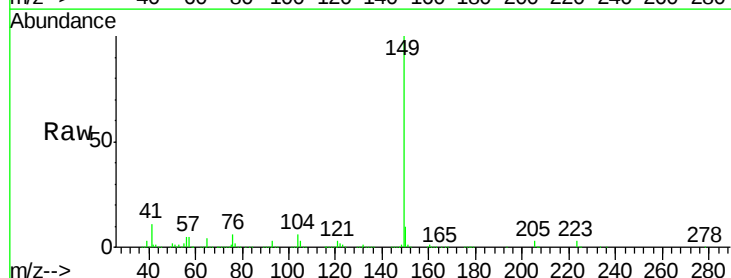
Instrument :  
BNA\_F  
ClientSampleId :  
GROUNDWATERDL

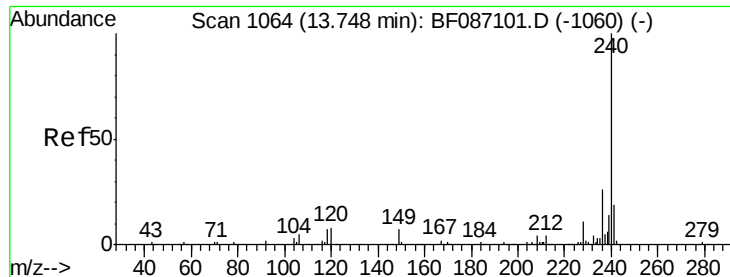
Tot Ion:188 Resp: 470924  
Ion Ratio Lower Upper  
188 100  
94 12.4 6.8 10.2#  
80 13.8 7.1 10.7#



#73  
Di-n-butylphthalate  
Concen: 53.55 ng  
RT: 11.67 min Scan# 882  
Delta R.T. 0.00 min  
Lab File: BF087148.D  
Acq: 18 May 2016 17:22

Tgt Ion:149 Resp: 1451635  
Ion Ratio Lower Upper  
149 100  
150 9.5 7.6 11.4  
104 5.6 3.8 5.6





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.71 min Scan# 1061

Delta R.T. -0.01 min

Lab File: BF087148.D

Acq: 18 May 2016 17:22

Instrument :

BNA\_F

ClientSampleId :

GROUNDWATERDL

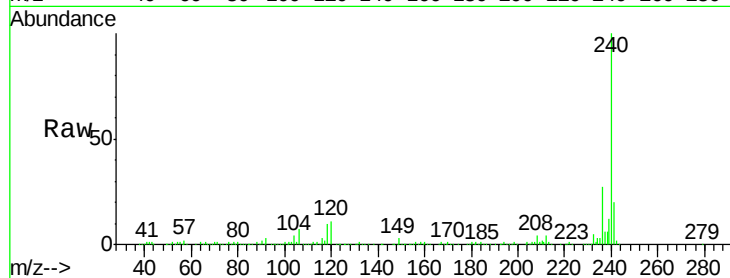
Tot Ion:240 Resp: 449251

Ion Ratio Lower Upper

240 100

120 10.7 11.2 16.8#

236 26.5 21.2 31.8

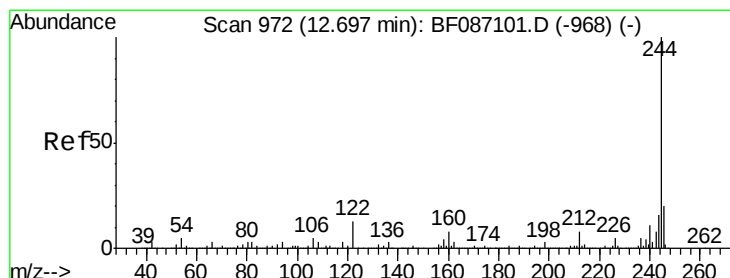
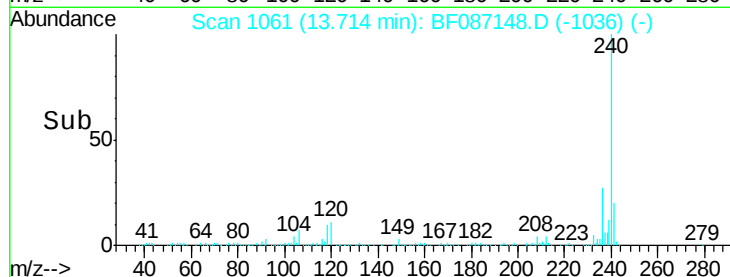
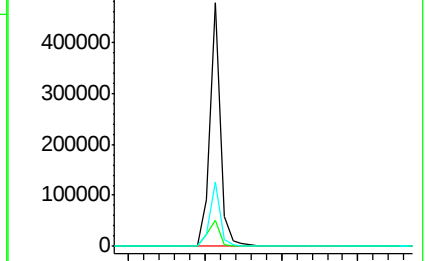


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

13.71



#78

Terphenyl-d14

Concen: 38.00 ng

RT: 12.67 min Scan# 970

Delta R.T. 0.00 min

Lab File: BF087148.D

Acq: 18 May 2016 17:22

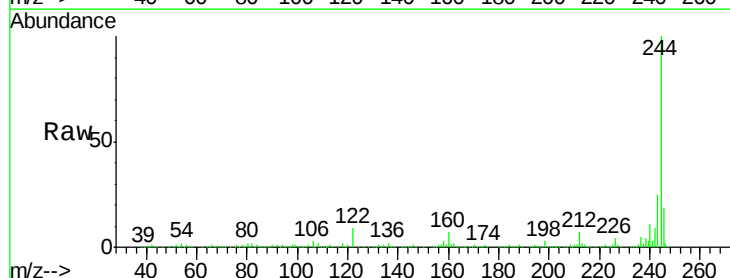
Tgt Ion:244 Resp: 754599

Ion Ratio Lower Upper

244 100

212 7.3 6.2 9.2

122 8.7 12.0 18.0#

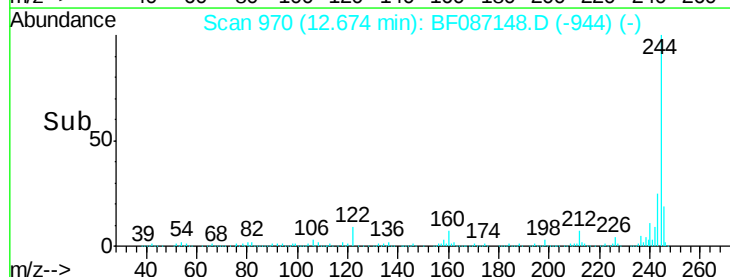
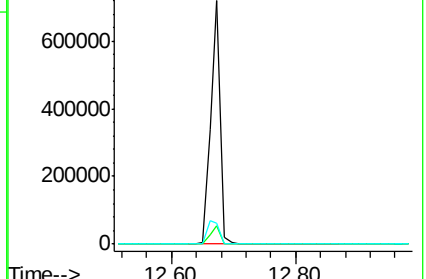


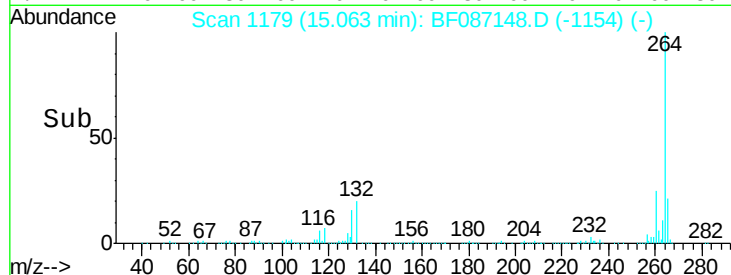
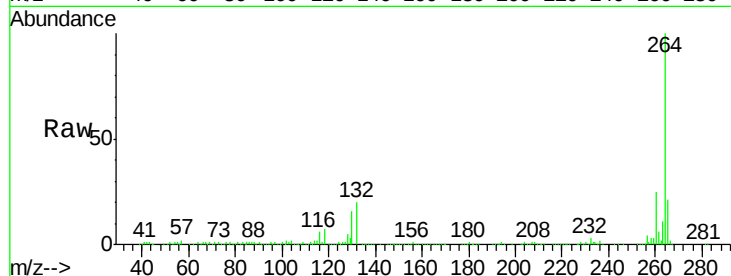
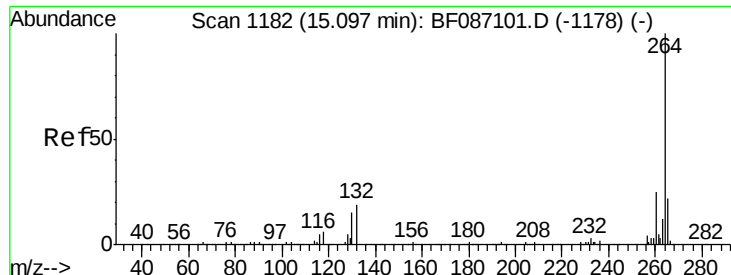
Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

12.67





#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.06 min Scan# 1179  
Delta R.T. -0.01 min  
Lab File: BF087148.D  
Acq: 18 May 2016 17:22

Instrument :  
BNA\_F  
ClientSampleId :  
GROUNDWATERDL

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 264   | Resp: | 366001 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 24.7  | 19.5  | 29.3   |
| 265      | 21.5  | 17.3  | 25.9   |

