

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG072319\  
 Data File : BG041759.D  
 Acq On : 23 Jul 2019 17:11  
 Operator : HP/JU  
 Sample : K3901-01  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CONTAINMENT-WATER

Quant Time: Jul 24 01:13:28 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG071519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 15 16:16:21 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.04  | 152  | 103695   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.85 | 136  | 396468   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.66 | 164  | 279422   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.40 | 188  | 609574   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.64 | 240  | 640901   | 20.00 | ng    | -0.02    |
| 87) Perylene-d12          | 24.84 | 264  | 759236   | 20.00 | ng    | -0.03    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.61  | 112  | 314498   | 49.58  | ng    | 0.00     |
| 7) Phenol-d6                | 7.19  | 99   | 256797   | 30.10  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.20  | 82   | 587594   | 90.13  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.14 | 330  | 455269   | 144.57 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.29 | 172  | 1462167  | 81.03  | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.00 | 244  | 2268551  | 82.72  | ng    | 0.00     |

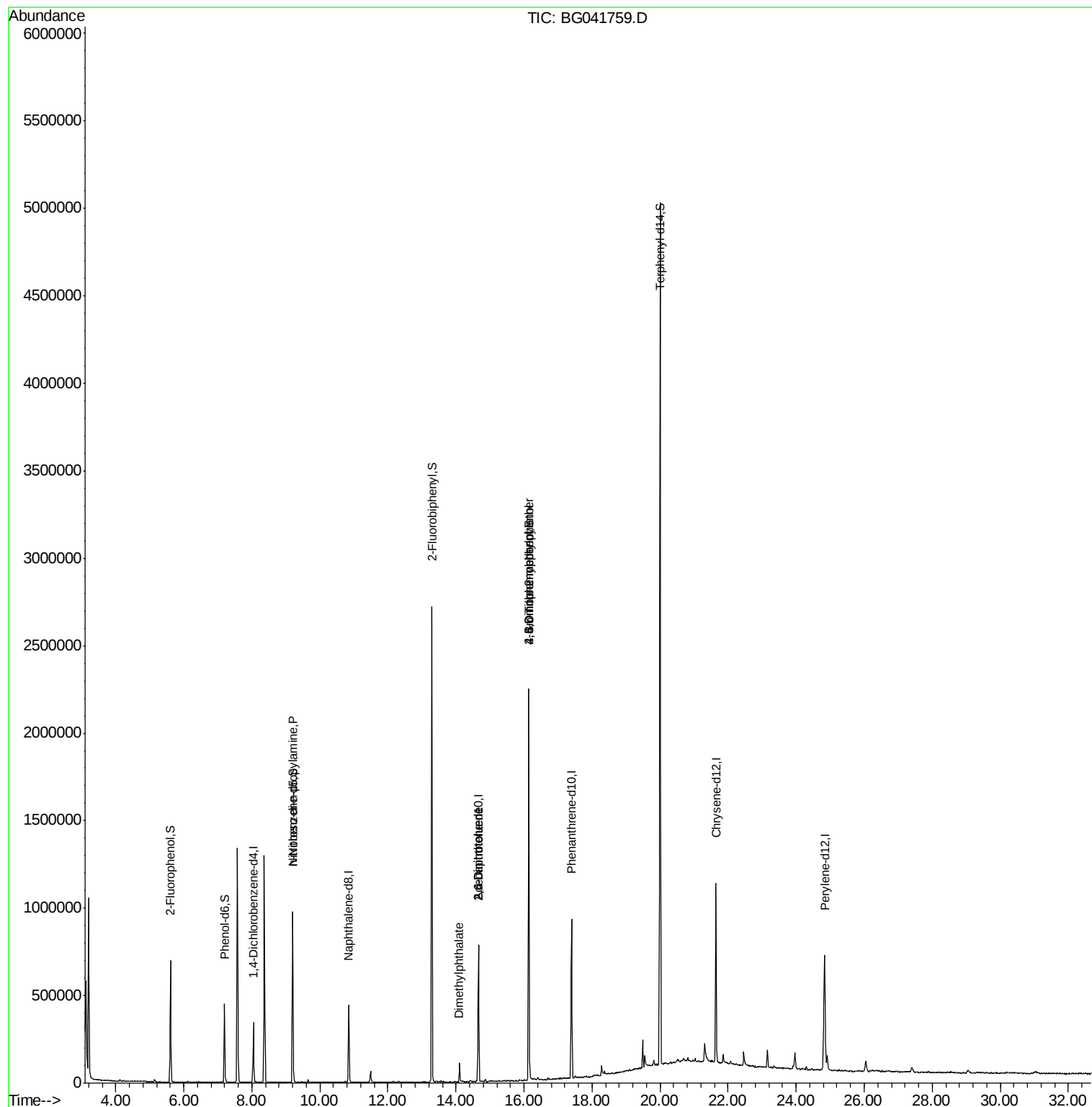
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 7.19  | 77   | 384      | Below Cal | #     | 3      |
| 19) n-Nitroso-di-n-propylamine | 9.20  | 70   | 81180    | 13.018    | ng    | # 69   |
| 50) Dimethylphthalate          | 14.11 | 163  | 78513    | 3.578     | ng    | # 96   |
| 51) 2,6-Dinitrotoluene         | 14.66 | 165  | 36805    | 7.907     | ng    | # 28   |
| 57) 2,4-Dinitrotoluene         | 14.66 | 165  | 36805    | 5.981     | ng    | # 30   |
| 65) 4,6-Dinitro-2-methylphenol | 16.15 | 198  | 1198     | 7.030     | ng    | # 13   |
| 67) 4-Bromophenyl-phenylether  | 16.14 | 248  | 34165    | 4.710     | ng    | # 1    |
| 77) Benzidine                  | 20.00 | 184  | 39392    | Below Cal | #     | 95     |

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

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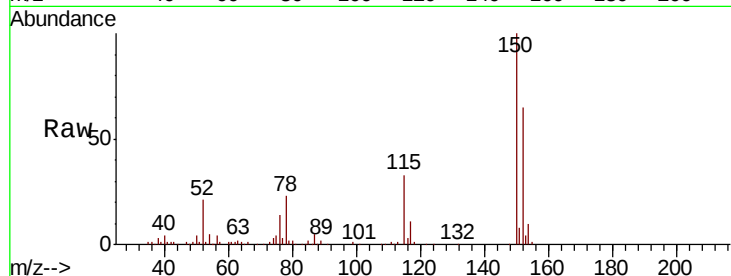


#1

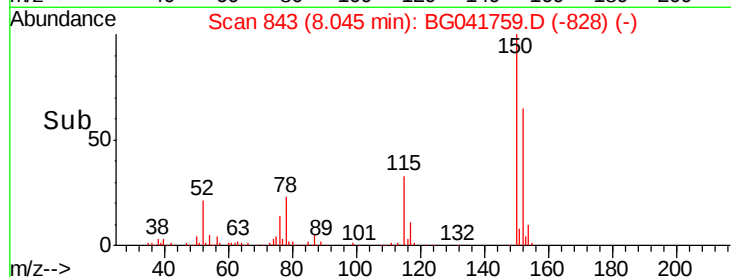
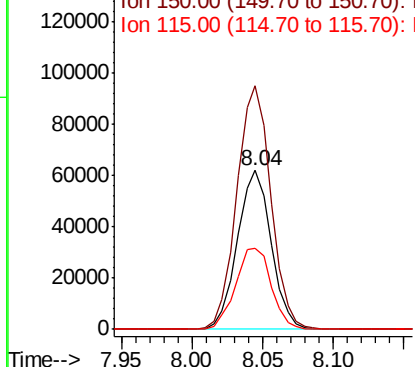
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.04 min Scan# 843  
Delta R.T. -0.01 min  
Lab File: BG041759.D  
Acq: 23 Jul 2019 17:11

Instrument :  
BNA\_G  
ClientSampleId :  
CONTAINMENT-WATER

Tgt Ion:152 Resp: 103695  
Ion Ratio Lower Upper  
152 100  
150 153.2 126.9 190.3  
115 51.0 45.0 67.6



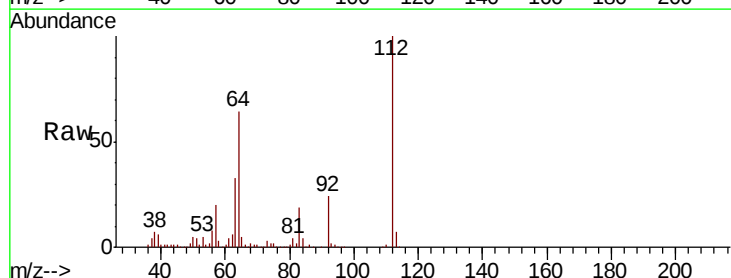
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



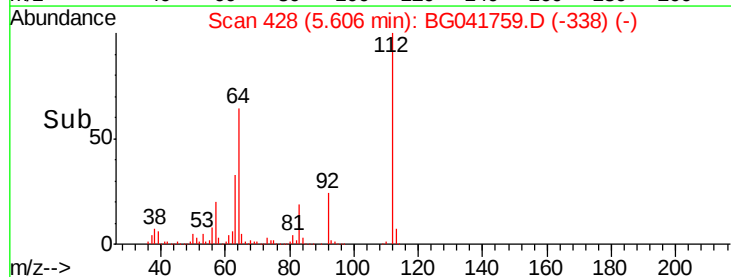
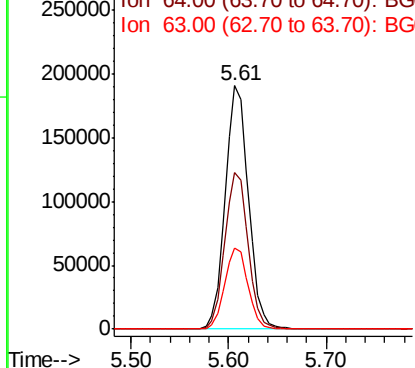
#5

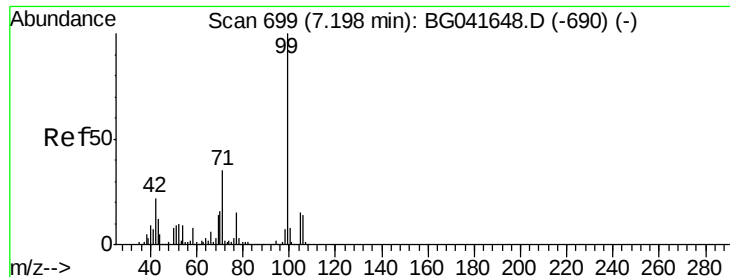
2-Fluorophenol  
Concen: 49.581 ng  
RT: 5.61 min Scan# 428  
Delta R.T. -0.00 min  
Lab File: BG041759.D  
Acq: 23 Jul 2019 17:11

Tgt Ion:112 Resp: 314498  
Ion Ratio Lower Upper  
112 100  
64 64.5 55.4 83.2  
63 33.2 29.1 43.7



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





#7

Phenol-d6

Concen: 30.099 ng

RT: 7.19 min Scan# 698

Delta R.T. -0.01 min

Lab File: BG041759.D

Acq: 23 Jul 2019 17:11

Instrument :

BNA\_G

ClientSampleId :

CONTAINMENT-WATER

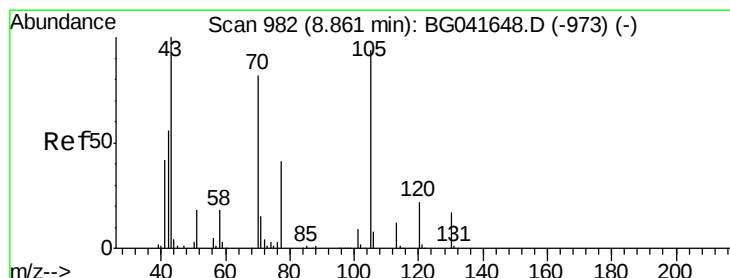
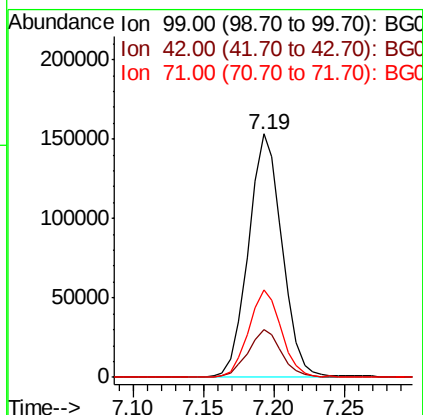
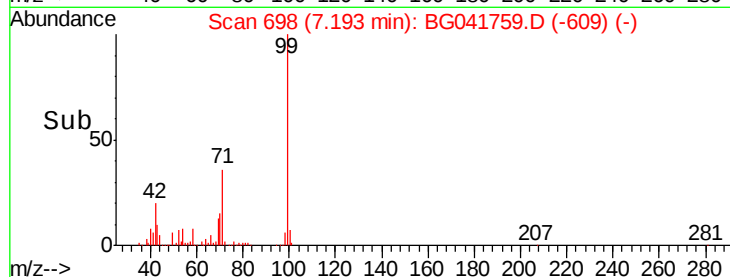
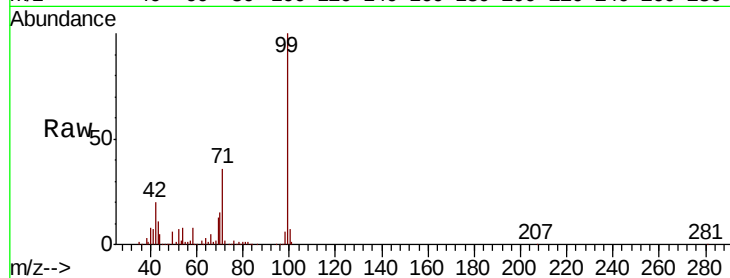
Tgt Ion: 99 Resp: 256797

Ion Ratio Lower Upper

99 100

42 19.7 17.6 26.4

71 35.8 27.8 41.6



#19

n-Nitroso-di-n-propylamine

Concen: 13.018 ng

RT: 9.20 min Scan# 1040

Delta R.T. 0.34 min

Lab File: BG041759.D

Acq: 23 Jul 2019 17:11

Tgt Ion: 70 Resp: 81180

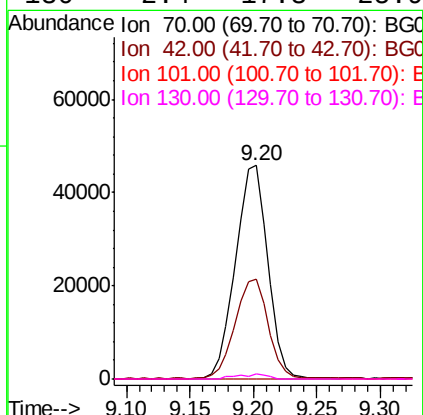
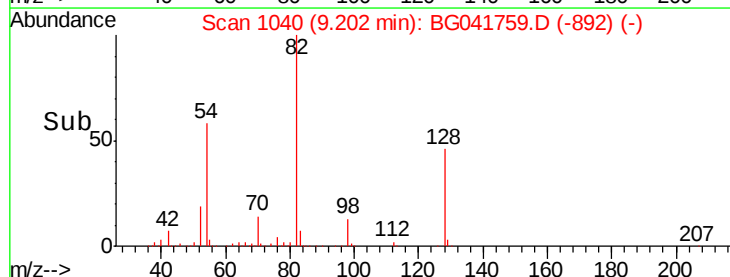
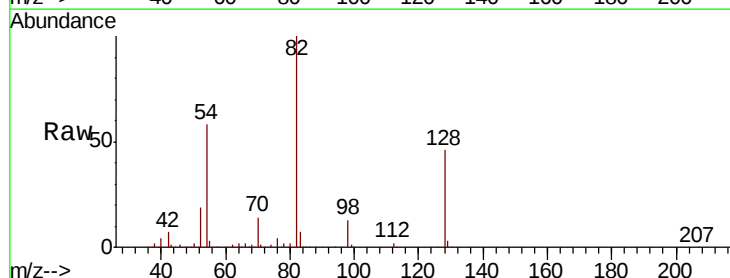
Ion Ratio Lower Upper

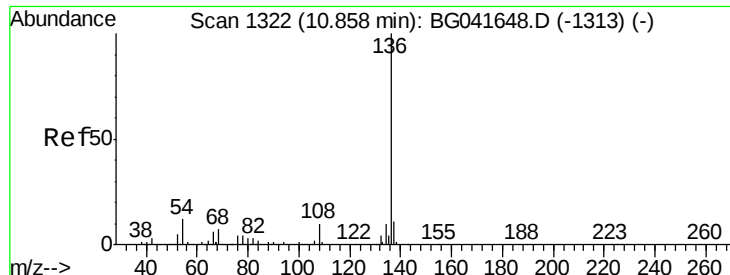
70 100

42 46.7 55.8 83.6#

101 0.0 8.1 12.1#

130 2.4 17.3 25.9#

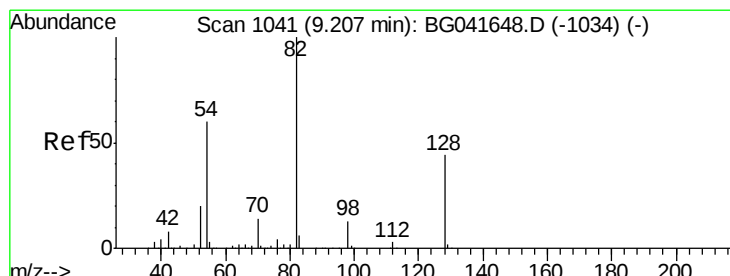
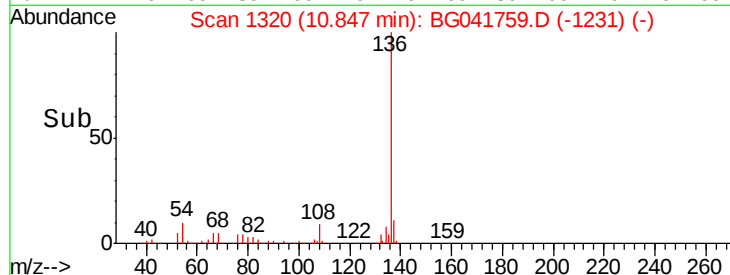
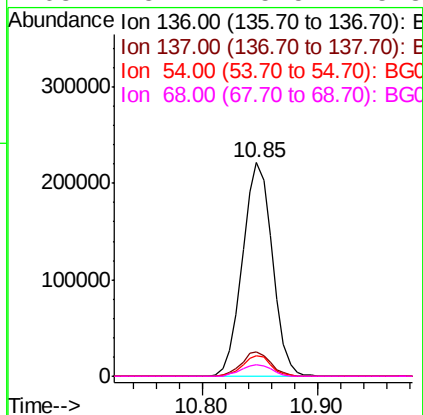
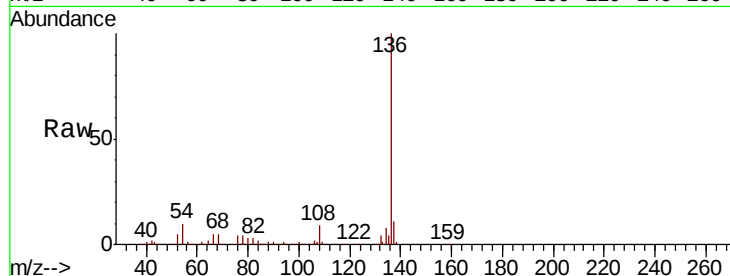




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.85 min Scan# 1320  
Delta R.T. -0.01 min  
Lab File: BG041759.D  
Acq: 23 Jul 2019 17:11

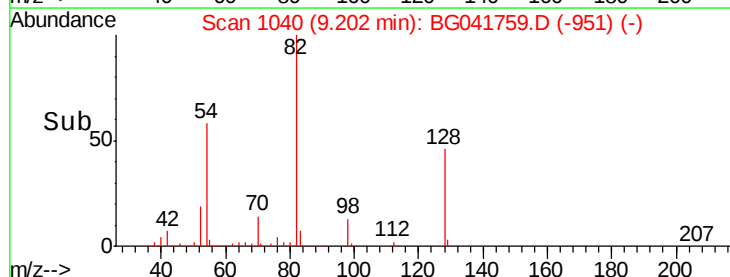
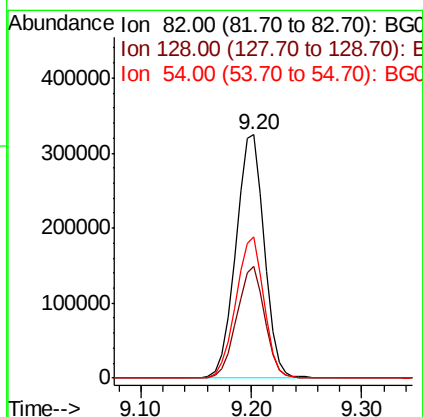
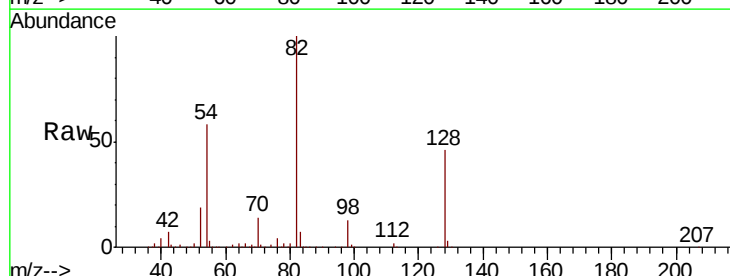
Instrument :  
BNA\_G  
ClientSampleId :  
CONTAINMENT-WATER

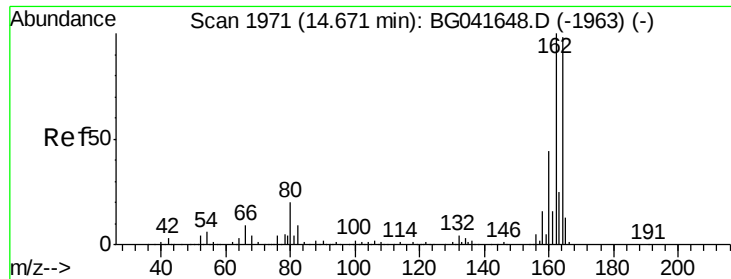
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 396468 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.2  | 9.2   | 13.8   |
| 54       | 9.8   | 8.7   | 13.1   |
| 68       | 5.4   | 5.5   | 8.3#   |



#23  
Nitrobenzene-d5  
Concen: 90.132 ng  
RT: 9.20 min Scan# 1040  
Delta R.T. -0.01 min  
Lab File: BG041759.D  
Acq: 23 Jul 2019 17:11

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 587594 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 46.0  | 35.1  | 52.7   |
| 54       | 57.7  | 48.7  | 73.1   |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.66 min Scan# 1969

Delta R.T. -0.01 min

Lab File: BG041759.D

Acq: 23 Jul 2019 17:11

Instrument :

BNA\_G

ClientSampleId :

CONTAINMENT-WATER

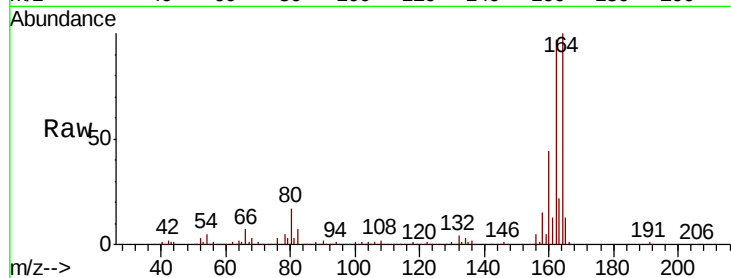
Tgt Ion:164 Resp: 279422

Ion Ratio Lower Upper

164 100

162 97.1 79.6 119.4

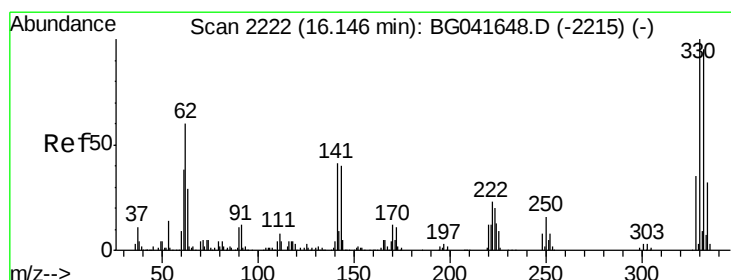
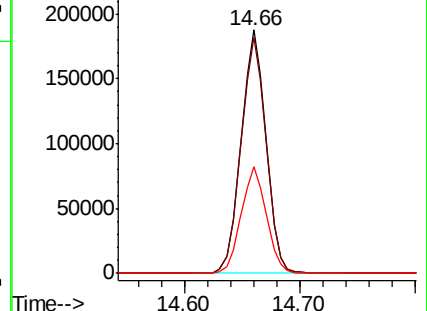
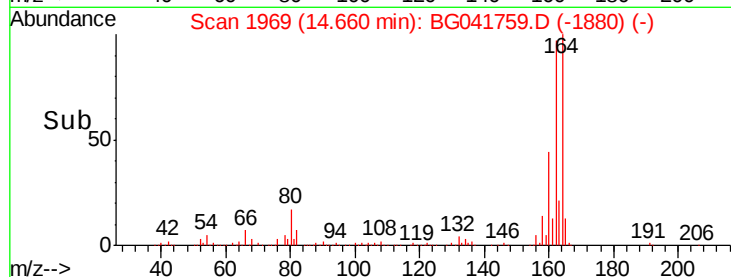
160 44.0 35.4 53.0



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: 144.574 ng

RT: 16.14 min Scan# 2221

Delta R.T. -0.01 min

Lab File: BG041759.D

Acq: 23 Jul 2019 17:11

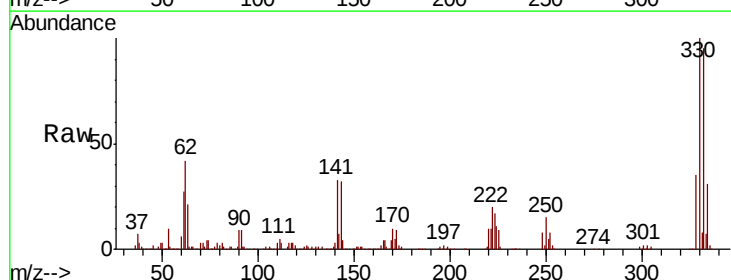
Tgt Ion:330 Resp: 455269

Ion Ratio Lower Upper

330 100

332 95.8 77.4 116.0

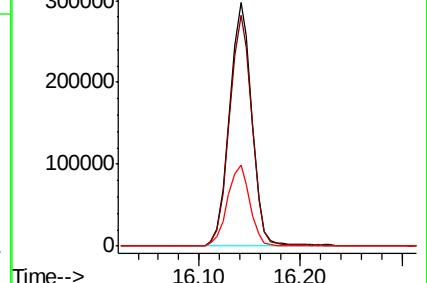
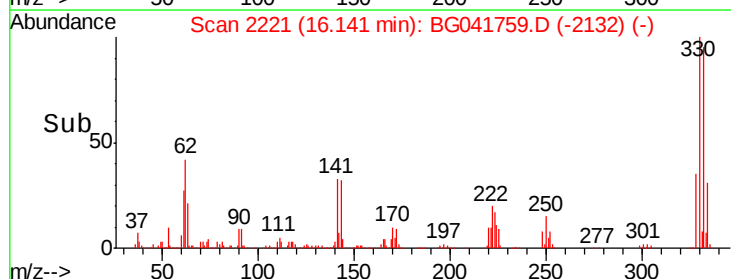
141 33.5 31.9 47.9

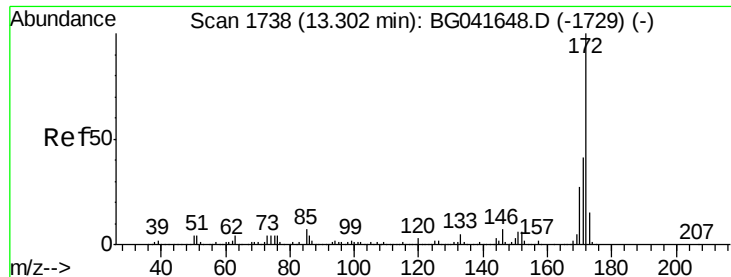


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

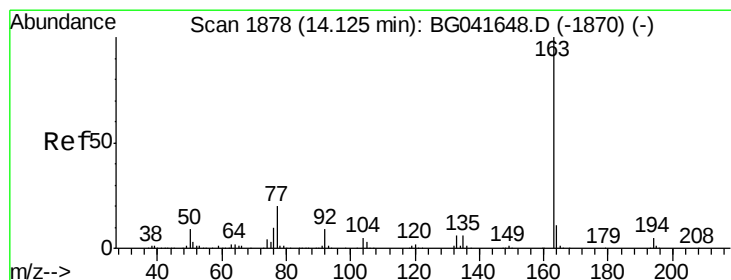
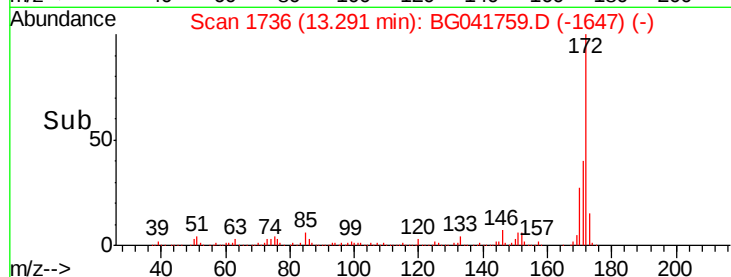
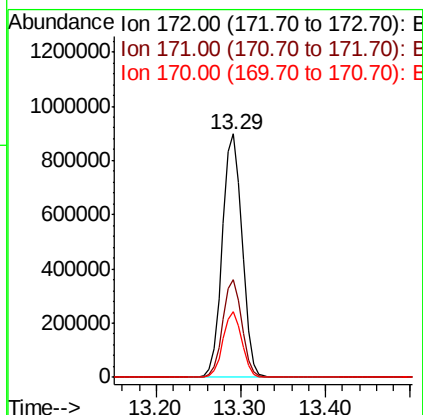
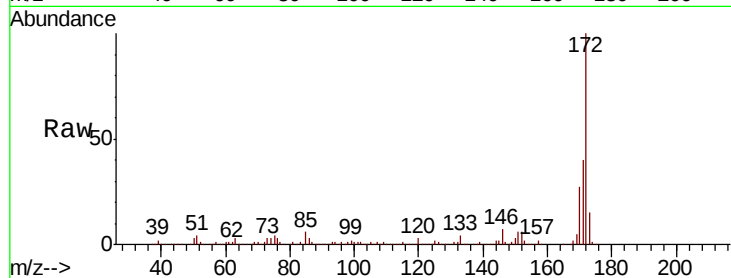




#45  
 2-Fluorobiphenyl  
 Concen: 81.030 ng  
 RT: 13.29 min Scan# 1736  
 Delta R.T. -0.01 min  
 Lab File: BG041759.D  
 Acq: 23 Jul 2019 17:11

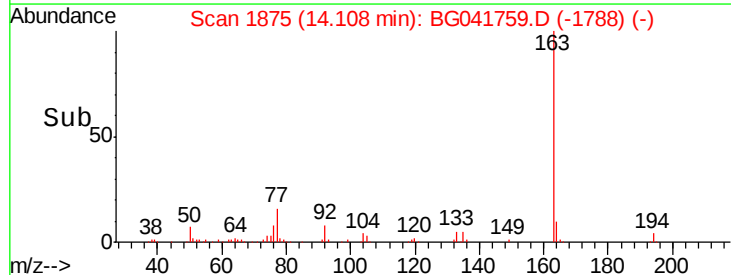
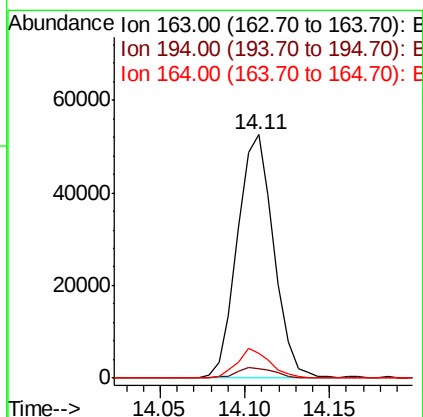
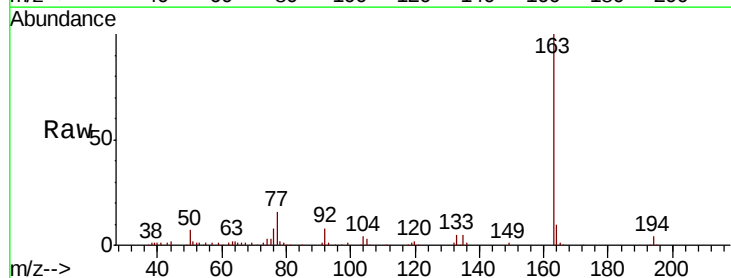
Instrument :  
 BNA\_G  
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 CONTAINMENT-WATER

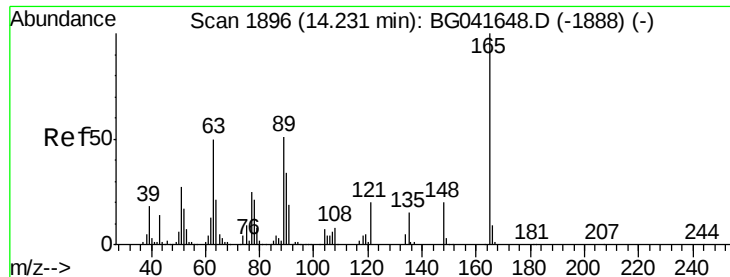
Tgt Ion:172 Resp: 1462167  
 Ion Ratio Lower Upper  
 172 100  
 171 40.3 35.0 52.4  
 170 27.2 23.5 35.3



#50  
 Dimethylphthalate  
 Concen: 3.578 ng  
 RT: 14.11 min Scan# 1875  
 Delta R.T. -0.02 min  
 Lab File: BG041759.D  
 Acq: 23 Jul 2019 17:11

Tgt Ion:163 Resp: 78513  
 Ion Ratio Lower Upper  
 163 100  
 194 4.0 4.2 6.2#  
 164 10.4 9.4 14.2

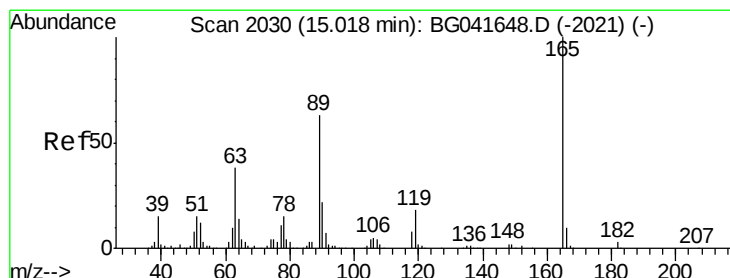
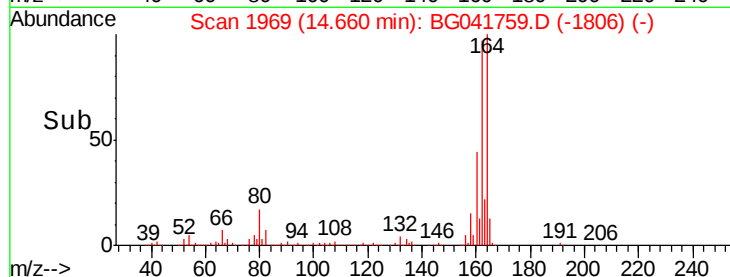
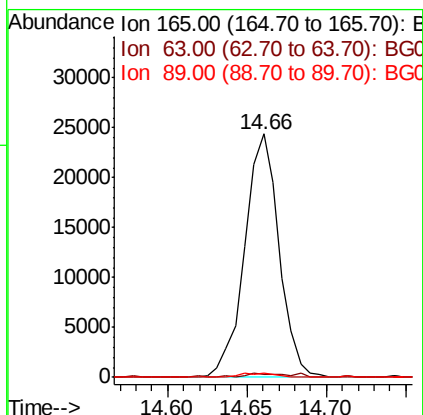
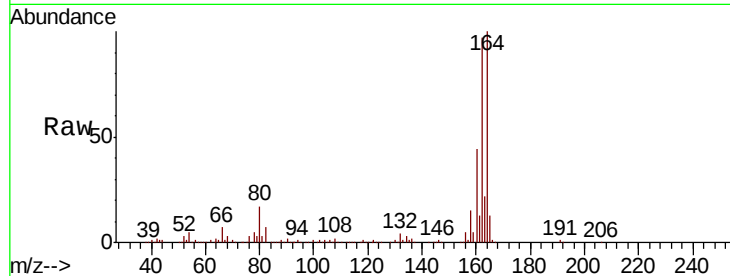




#51  
 2,6-Dinitrotoluene  
 Concen: 7.907 ng  
 RT: 14.66 min Scan# 1969  
 Delta R.T. 0.43 min  
 Lab File: BG041759.D  
 Acq: 23 Jul 2019 17:11

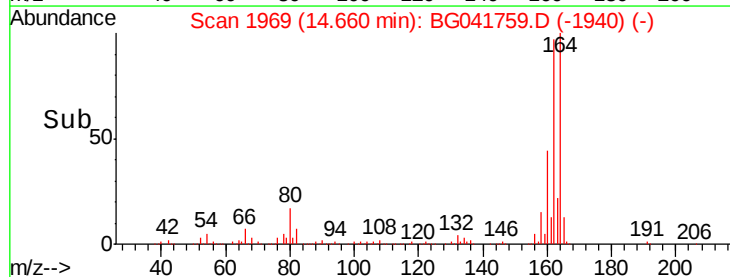
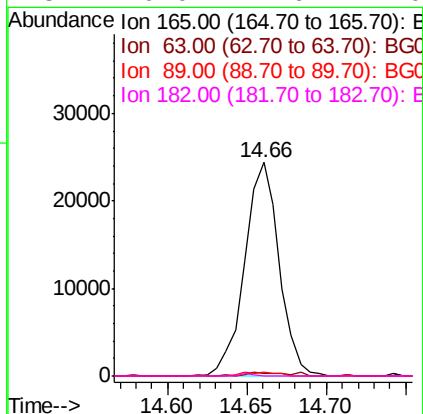
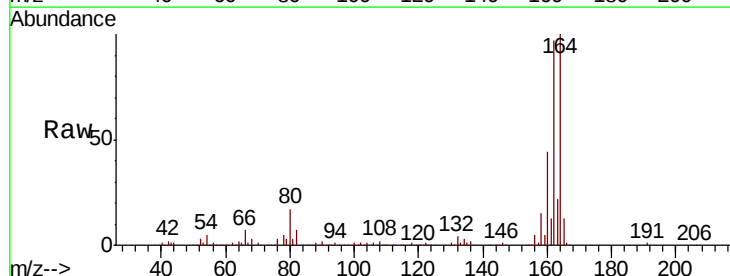
Instrument :  
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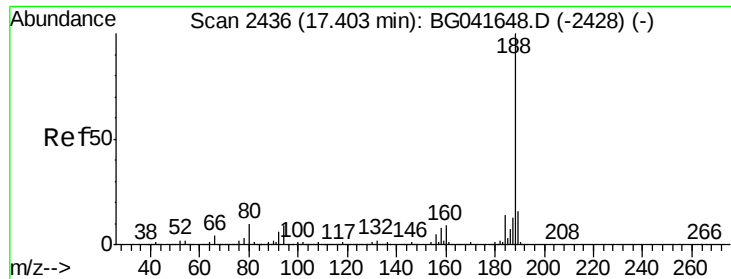
Tgt Ion:165 Resp: 36805  
 Ion Ratio Lower Upper  
 165 100  
 63 1.4 42.4 63.6#  
 89 1.8 42.1 63.1#



#57  
 2,4-Dinitrotoluene  
 Concen: 5.981 ng  
 RT: 14.66 min Scan# 1969  
 Delta R.T. -0.36 min  
 Lab File: BG041759.D  
 Acq: 23 Jul 2019 17:11

Tgt Ion:165 Resp: 36805  
 Ion Ratio Lower Upper  
 165 100  
 63 1.4 31.7 47.5#  
 89 1.8 50.2 75.4#  
 182 0.0 2.6 4.0#

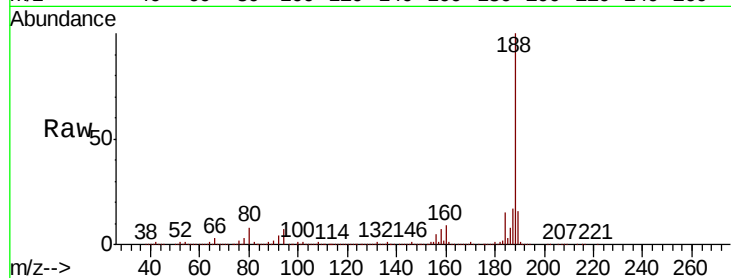




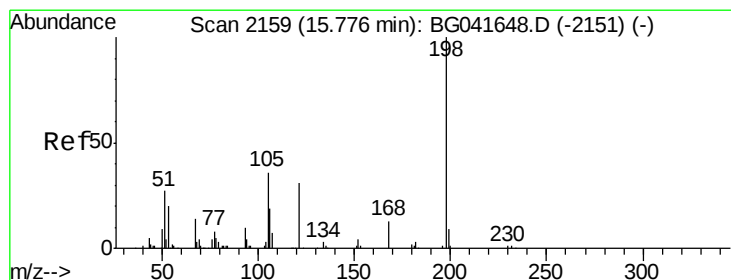
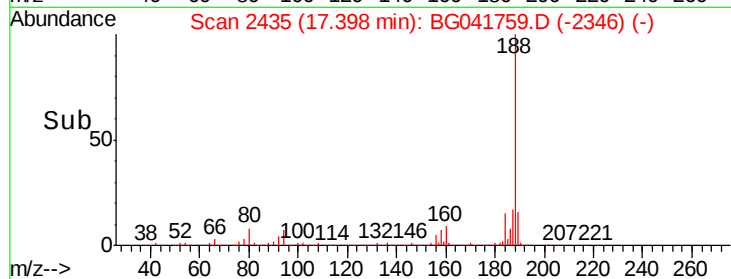
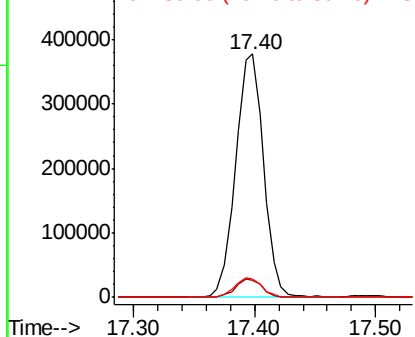
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.40 min Scan# 2435  
Delta R.T. -0.01 min  
Lab File: BG041759.D  
Acq: 23 Jul 2019 17:11

Instrument :  
BNA\_G  
ClientSampleId :  
CONTAINMENT-WATER

Tgt Ion:188 Resp: 609574  
Ion Ratio Lower Upper  
188 100  
94 6.8 6.9 10.3#  
80 7.8 8.0 12.0#

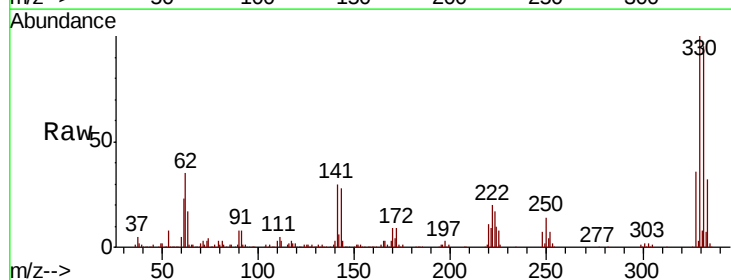


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BGC  
Ion 80.00 (79.70 to 80.70): BGC

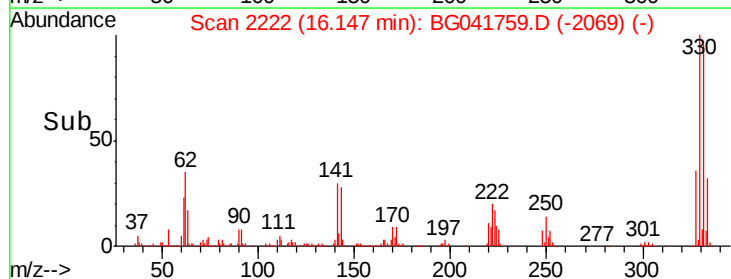
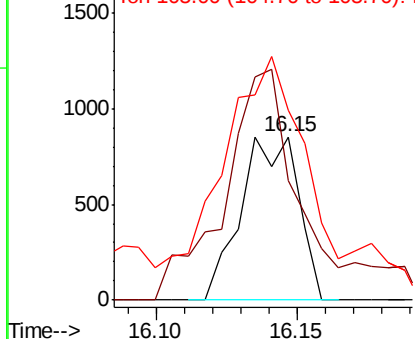


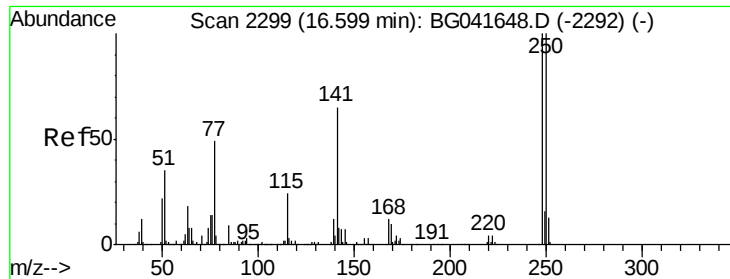
#65  
4,6-Dinitro-2-methylphenol  
Concen: 7.030 ng  
RT: 16.15 min Scan# 2222  
Delta R.T. 0.37 min  
Lab File: BG041759.D  
Acq: 23 Jul 2019 17:11

Tgt Ion:198 Resp: 1198  
Ion Ratio Lower Upper  
198 100  
51 73.1 22.3 62.3#  
105 116.4 18.0 58.0#



Abundance Ion 198.00 (197.70 to 198.70): E  
Ion 51.00 (50.70 to 51.70): BGC  
Ion 105.00 (104.70 to 105.70): E

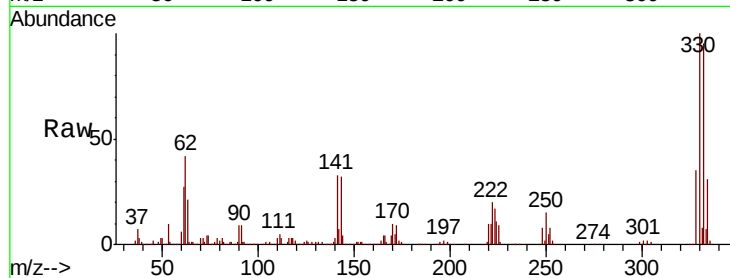




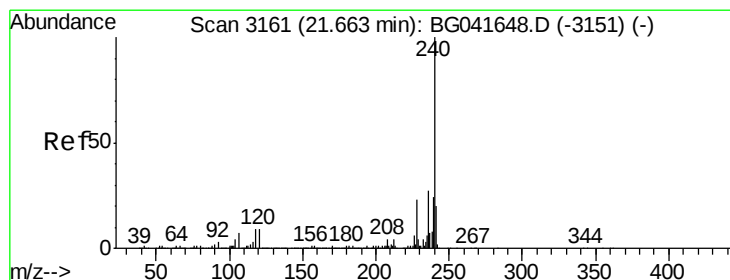
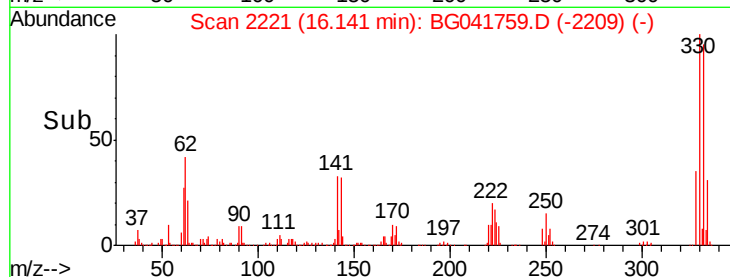
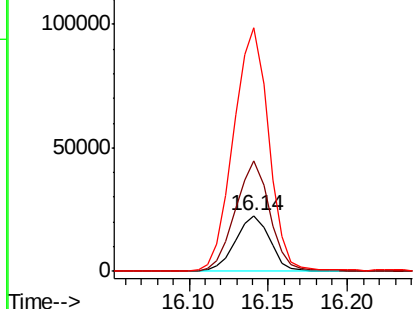
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.710 ng  
 RT: 16.14 min Scan# 2221  
 Delta R.T. -0.46 min  
 Lab File: BG041759.D  
 Acq: 23 Jul 2019 17:11

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CONTAINMENT-WATER

Tgt Ion:248 Resp: 34165  
 Ion Ratio Lower Upper  
 248 100  
 250 197.5 78.1 117.1#  
 141 436.1 49.6 74.4#

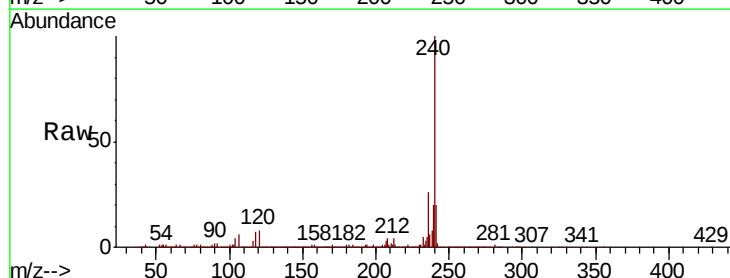


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

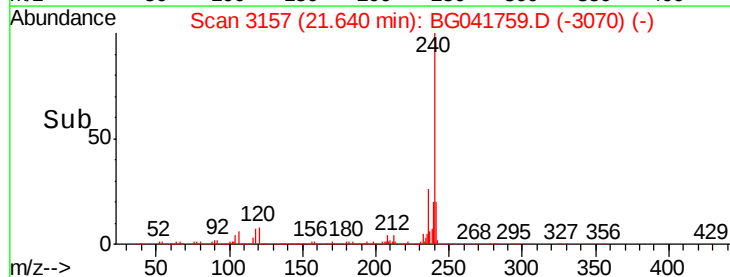
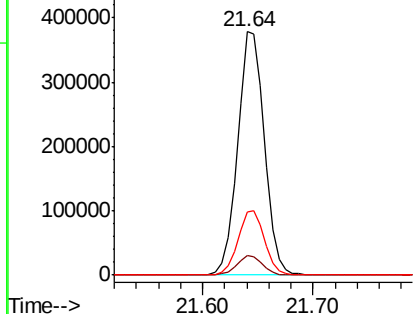


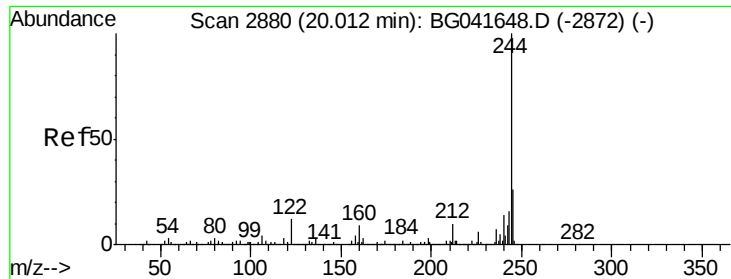
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.64 min Scan# 3157  
 Delta R.T. -0.02 min  
 Lab File: BG041759.D  
 Acq: 23 Jul 2019 17:11

Tgt Ion:240 Resp: 640901  
 Ion Ratio Lower Upper  
 240 100  
 120 7.9 8.0 12.0#  
 236 26.0 22.6 33.8



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





#79

Terphenyl-d14

Concen: 82.717 ng

RT: 20.00 min Scan# 2878

Delta R.T. -0.01 min

Lab File: BG041759.D

Acq: 23 Jul 2019 17:11

Instrument :

BNA\_G

ClientSampleId :

CONTAINMENT-WATER

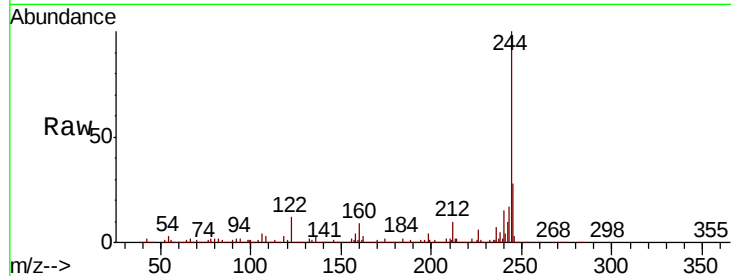
Tgt Ion:244 Resp: 2268551

Ion Ratio Lower Upper

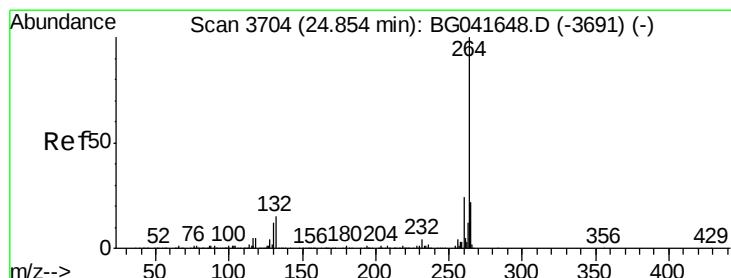
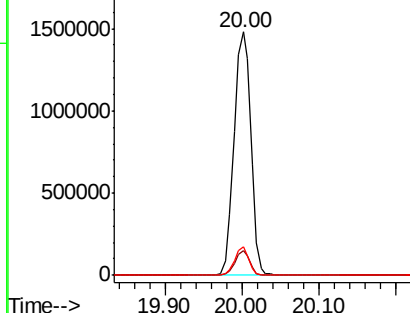
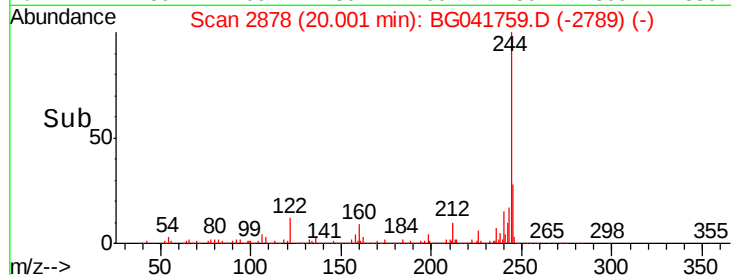
244 100

212 10.3 9.7 14.5

122 11.5 12.5 18.7#



Abundance Ion 244.00 (243.70 to 244.70): E  
2000000  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E



#87

Perylene-d12

Concen: 20.000 ng

RT: 24.84 min Scan# 3701

Delta R.T. -0.03 min

Lab File: BG041759.D

Acq: 23 Jul 2019 17:11

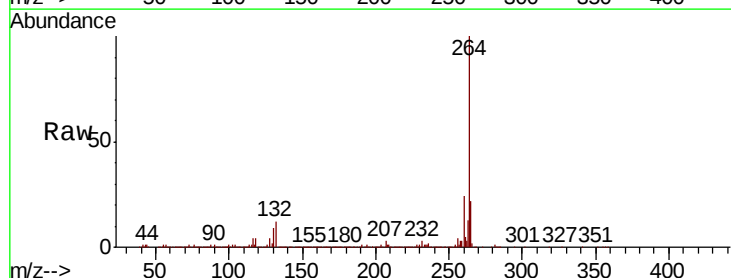
Tgt Ion:264 Resp: 759236

Ion Ratio Lower Upper

264 100

260 23.8 19.5 29.3

265 21.9 18.0 27.0



Abundance Ion 264.00 (263.70 to 264.70): E  
300000  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

