

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG071619\  
 Data File : BG041667.D  
 Acq On : 16 Jul 2019 14:25  
 Operator : HP/JU  
 Sample : K3826-03  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jul 17 01:38:24 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 | 8.05  | 152  | 113963   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.86 | 136  | 484171   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.67 | 164  | 302783   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.40 | 188  | 697047   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.65 | 240  | 644795   | 20.00 | ng    | -0.01    |
| 87) Perylene-d12          | 24.85 | 264  | 742394   | 20.00 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.61  | 112  | 857486   | 123.00 | ng    | 0.00     |
| 7) Phenol-d6                | 7.20  | 99   | 1211677  | 129.22 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.21  | 82   | 740044   | 92.95  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.15 | 330  | 465532   | 136.43 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.30 | 172  | 1585582  | 81.09  | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.01 | 244  | 2148396  | 77.86  | ng    | 0.00     |

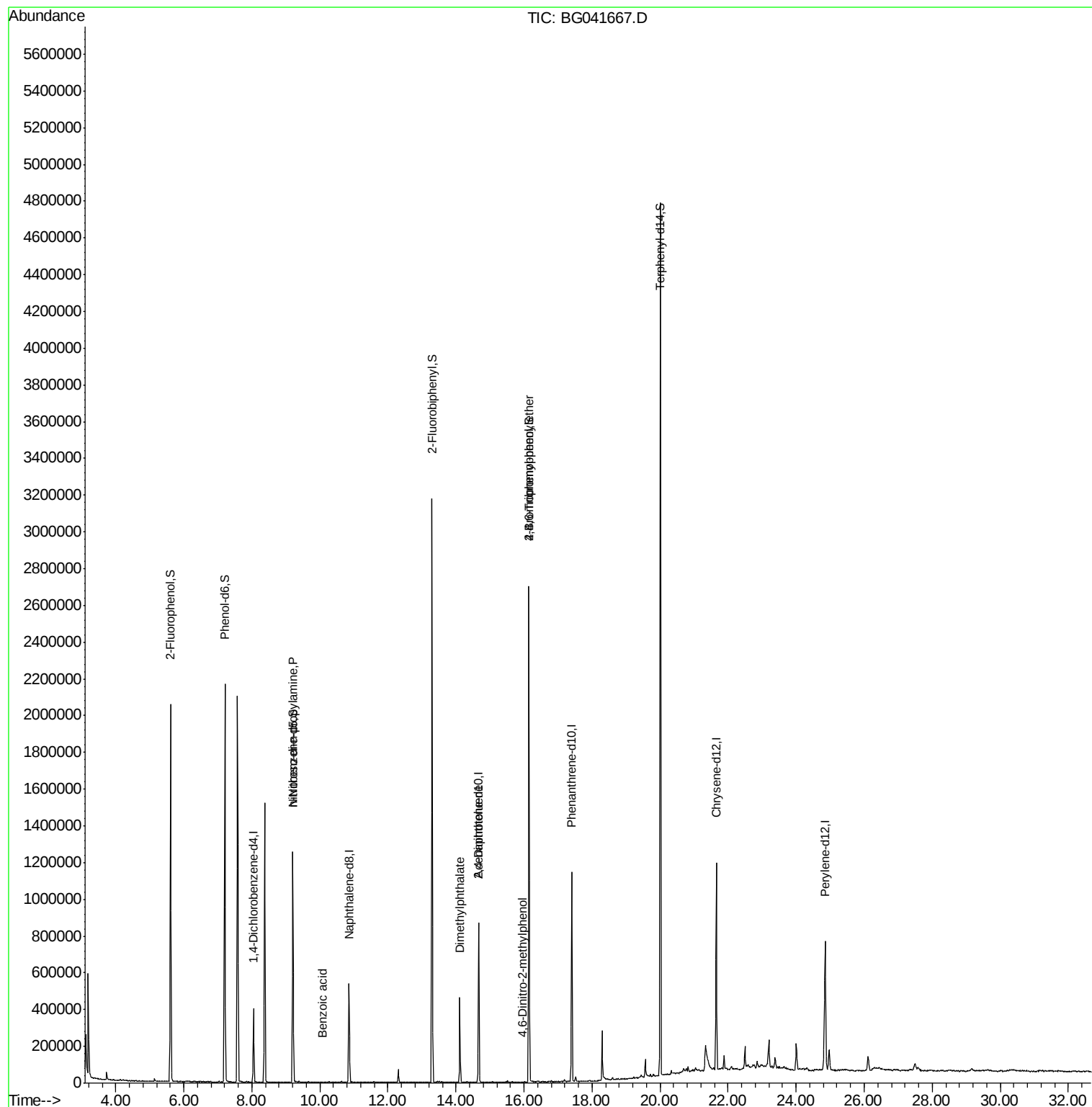
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 7.20  | 77   | 2279     | Below Cal | #     | 3      |
| 19) n-Nitroso-di-n-propylamine | 9.21  | 70   | 103784   | 15.143    | ng    | # 71   |
| 32) Benzoic acid               | 10.08 | 122  | 65       | 6.023     | ng    | # 1    |
| 50) Dimethylphthalate          | 14.11 | 163  | 311986   | 13.120    | ng    | 97     |
| 57) 2,4-Dinitrotoluene         | 14.67 | 165  | 39459    | 5.918     | ng    | # 30   |
| 65) 4,6-Dinitro-2-methylphenol | 15.98 | 198  | 57       | 6.689     | ng    | # 35   |
| 67) 4-Bromophenyl-phenylether  | 16.15 | 248  | 36824    | 4.440     | ng    | # 1    |
| 77) Benzidine                  | 20.01 | 184  | 38972    | Below Cal | #     | 93     |

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

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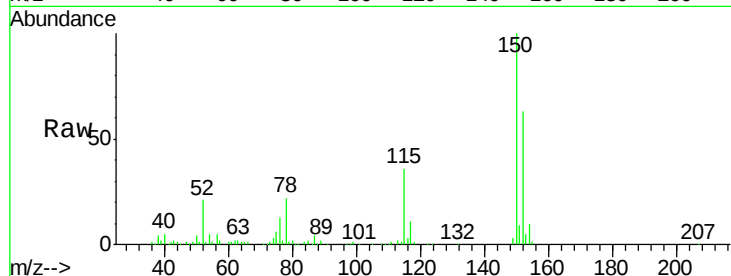


#1

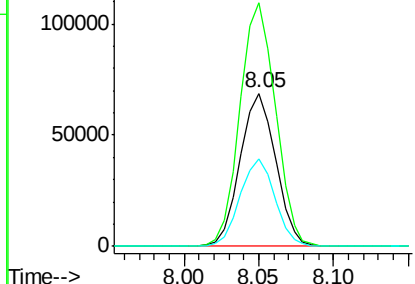
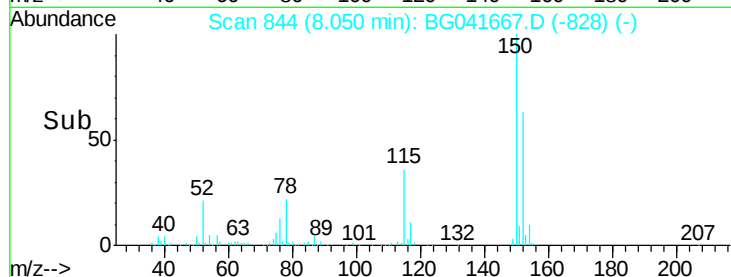
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.05 min Scan# 844  
Delta R.T. -0.00 min  
Lab File: BG041667.D  
Acq: 16 Jul 2019 14:25

Instrument :  
BNA\_G  
ClientSampled :

| Tot Ion | 152   | Resp  | 113963 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 152     | 100   |       |        |
| 150     | 158.8 | 126.9 | 190.3  |
| 115     | 56.7  | 45.0  | 67.6   |



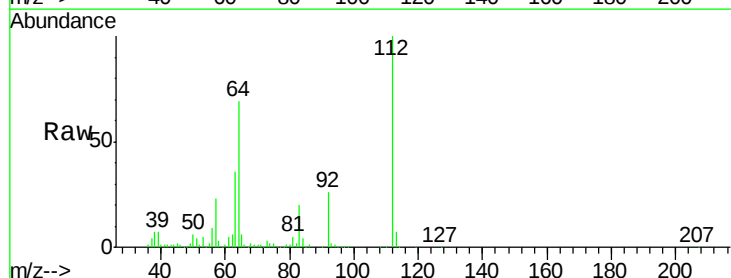
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



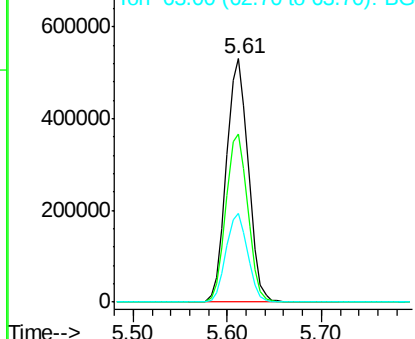
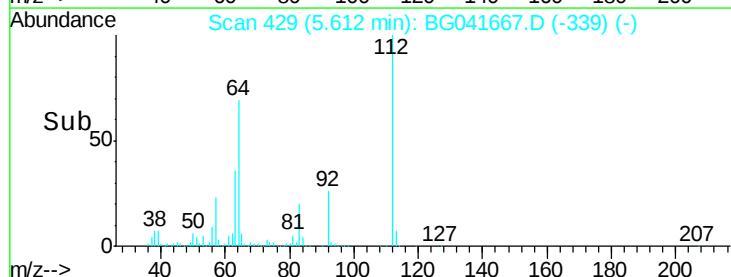
#5

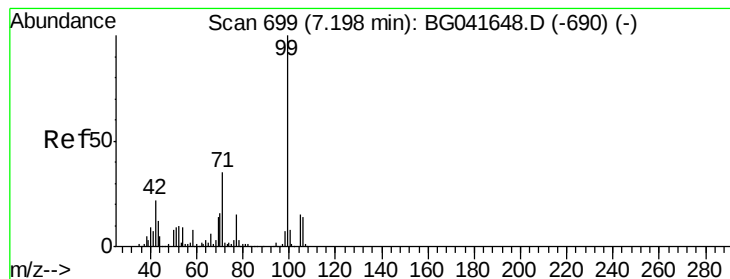
2-Fluorophenol  
Concen: 123.003 ng  
RT: 5.61 min Scan# 429  
Delta R.T. 0.00 min  
Lab File: BG041667.D  
Acq: 16 Jul 2019 14:25

| Tgt Ion | 112   | Resp  | 857486 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 112     | 100   |       |        |
| 64      | 68.8  | 55.4  | 83.2   |
| 63      | 36.5  | 29.1  | 43.7   |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BG0  
Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 129.222 ng

RT: 7.20 min Scan# 700

Delta R.T. 0.00 min

Lab File: BG041667.D

Acq: 16 Jul 2019 14:25

Instrument :

BNA\_G

ClientSampleId :

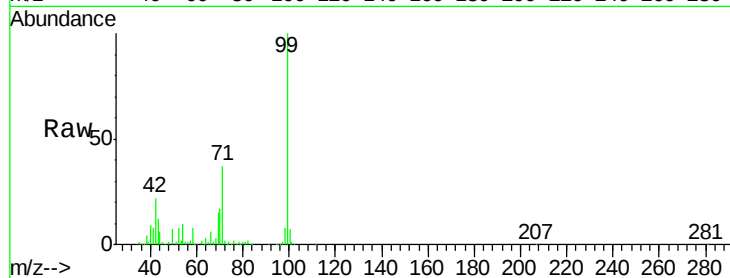
Tot Ion: 99 Resp: 1211677

Ion Ratio Lower Upper

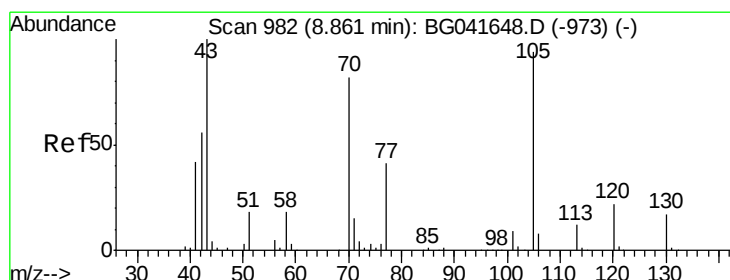
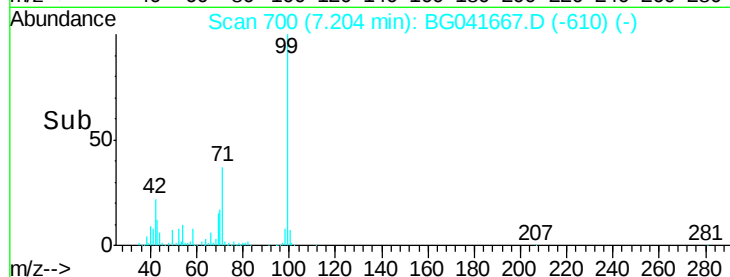
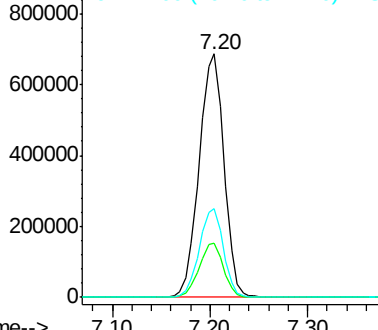
99 100

42 22.2 17.6 26.4

71 36.5 27.8 41.6



Abundance Ion 99.00 (98.70 to 99.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 71.00 (70.70 to 71.70): BGC



#19

n-Nitroso-di-n-propylamine

Concen: 15.143 ng

RT: 9.21 min Scan# 1041

Delta R.T. 0.34 min

Lab File: BG041667.D

Acq: 16 Jul 2019 14:25

Tgt Ion: 70 Resp: 103784

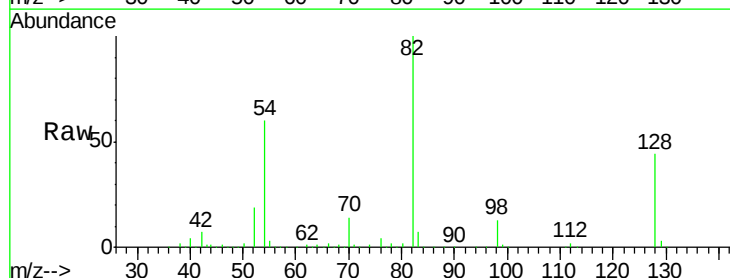
Ion Ratio Lower Upper

70 100

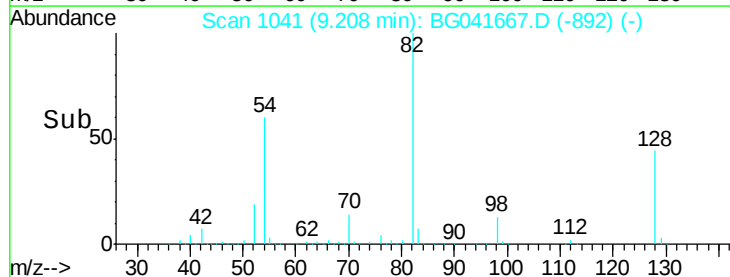
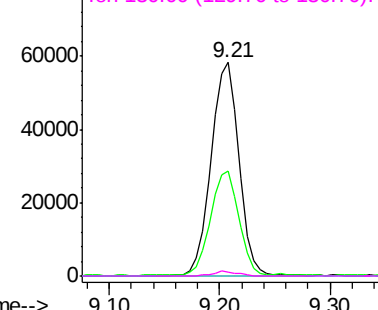
42 49.2 55.8 83.6#

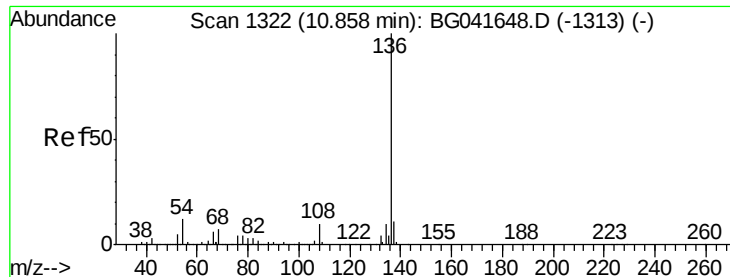
101 0.0 8.1 12.1#

130 2.1 17.3 25.9#



Abundance Ion 70.00 (69.70 to 70.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 101.00 (100.70 to 101.70): BGC  
Ion 130.00 (129.70 to 130.70): BGC





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.86 min Scan# 1322

Delta R.T. 0.00 min

Lab File: BG041667.D

Acq: 16 Jul 2019 14:25

Instrument :

BNA\_G

ClientSampleId :

Tot Ion:136 Resp: 484171

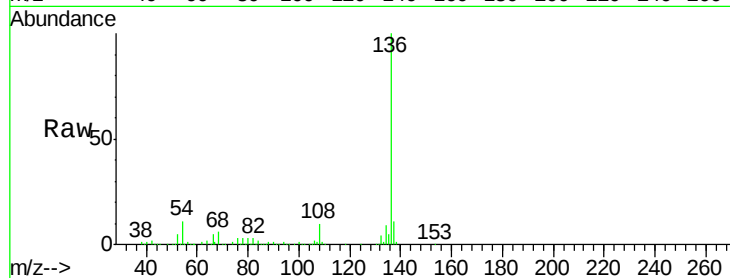
Ion Ratio Lower Upper

136 100

137 10.9 9.2 13.8

54 10.6 8.7 13.1

68 6.4 5.5 8.3

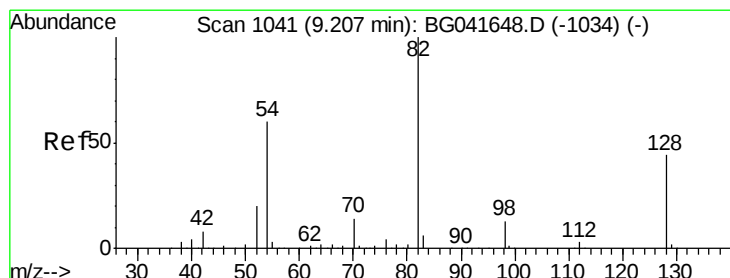
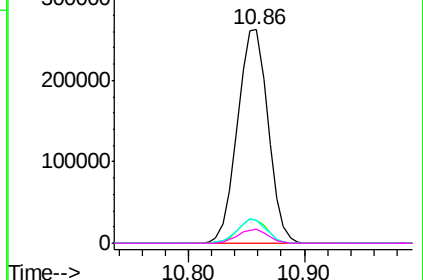
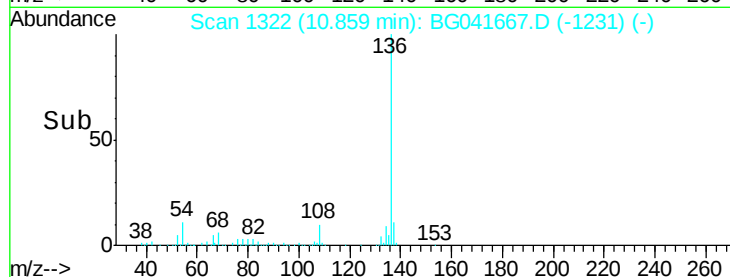


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC



#23

Nitrobenzene-d5

Concen: 92.954 ng

RT: 9.21 min Scan# 1041

Delta R.T. -0.00 min

Lab File: BG041667.D

Acq: 16 Jul 2019 14:25

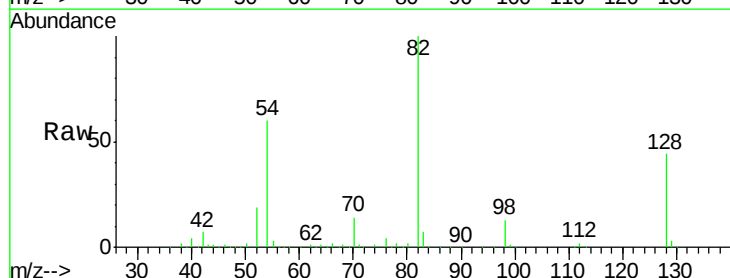
Tgt Ion: 82 Resp: 740044

Ion Ratio Lower Upper

82 100

128 43.5 35.1 52.7

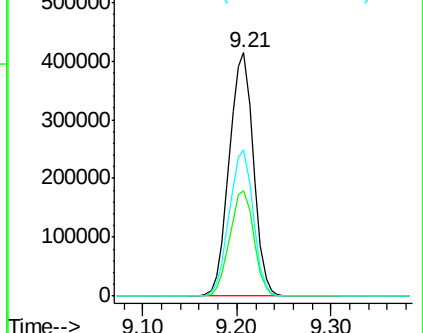
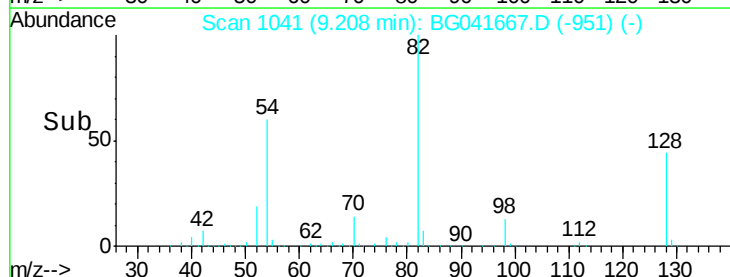
54 59.9 48.7 73.1

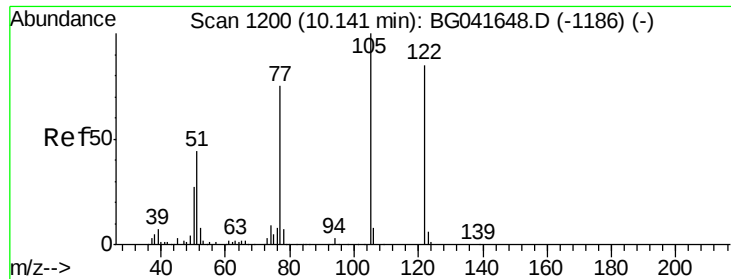


Abundance Ion 82.00 (81.70 to 82.70): BGC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BGC

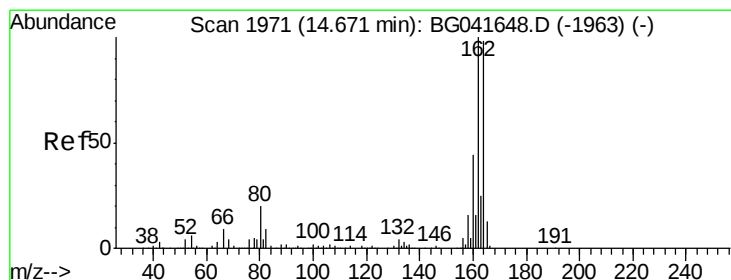
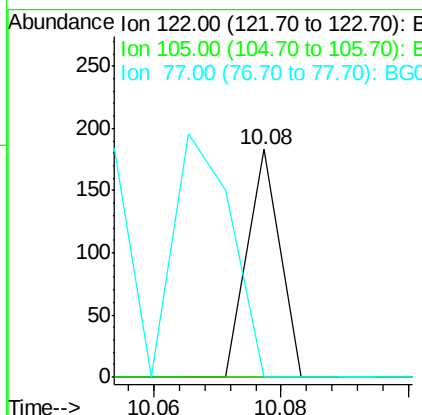
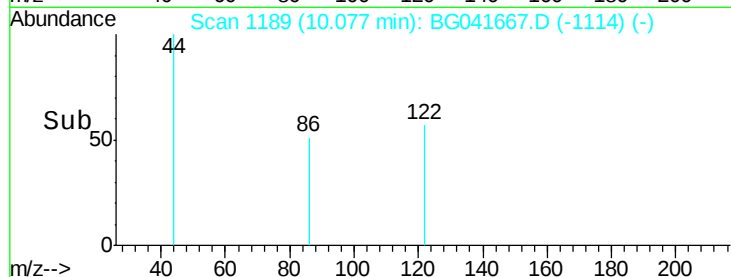
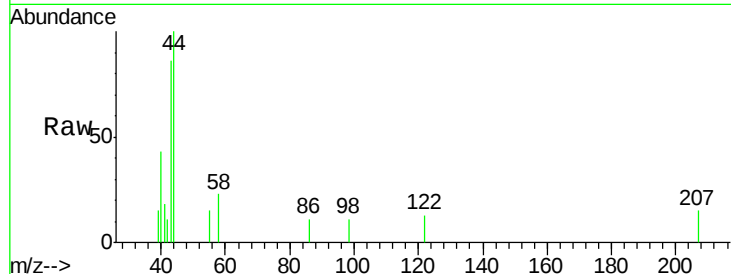




#32  
Benzoic acid  
Concen: 6.023 ng  
RT: 10.08 min Scan# 1189  
Delta R.T. -0.09 min  
Lab File: BG041667.D  
Acq: 16 Jul 2019 14:25

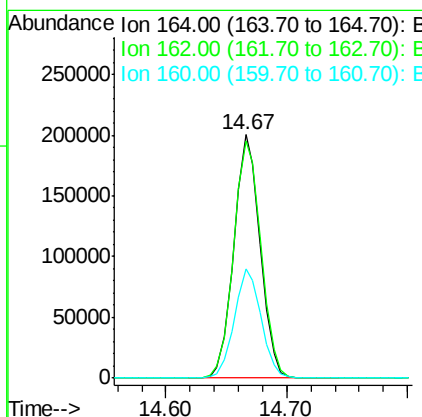
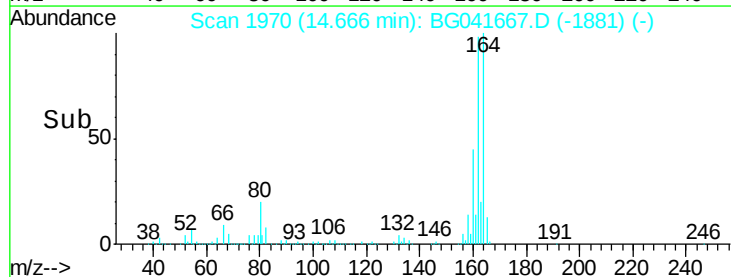
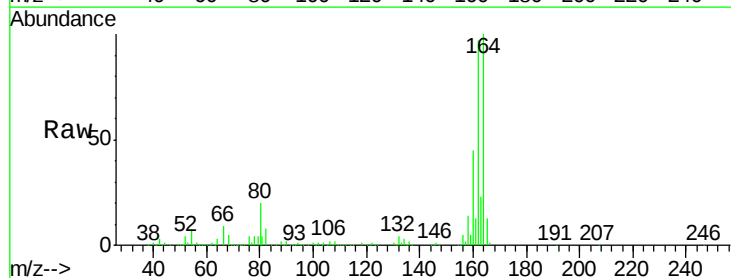
Instrument :  
BNA\_G  
ClientSampled :

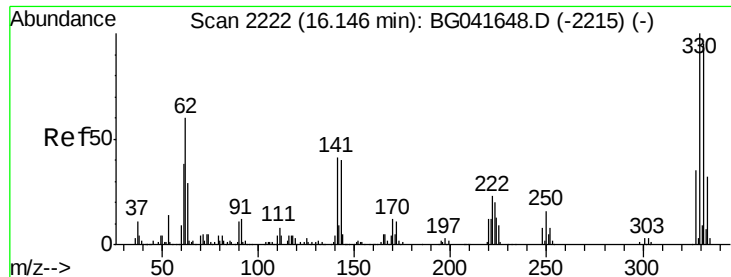
Tot Ion:122 Resp: 65  
Ion Ratio Lower Upper  
122 100  
105 0.0 101.5 141.5#  
77 0.0 73.0 113.0#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.67 min Scan# 1970  
Delta R.T. -0.00 min  
Lab File: BG041667.D  
Acq: 16 Jul 2019 14:25

Tgt Ion:164 Resp: 302783  
Ion Ratio Lower Upper  
164 100  
162 97.5 79.6 119.4  
160 44.6 35.4 53.0





#42

2,4,6-Tribromophenol

Concen: 136.427 ng

RT: 16.15 min Scan# 2222

Delta R.T. -0.00 min

Lab File: BG041667.D

Acq: 16 Jul 2019 14:25

Instrument :

BNA\_G

ClientSampleId :

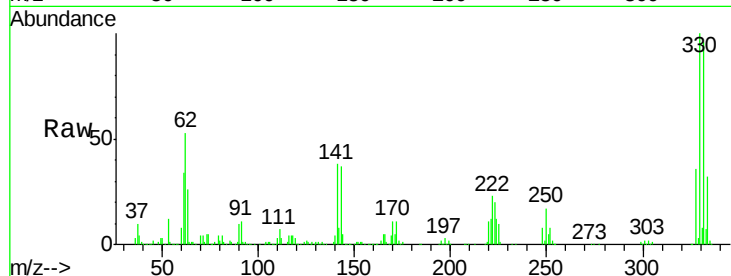
Tot Ion:330 Resp: 465532

Ion Ratio Lower Upper

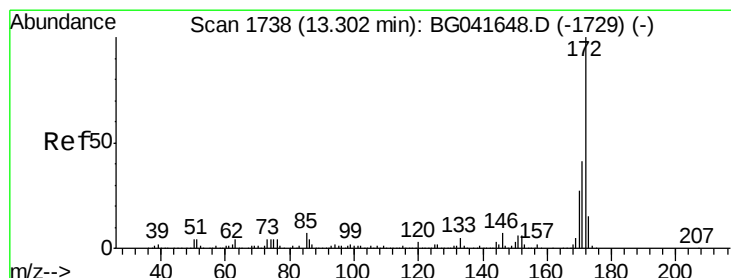
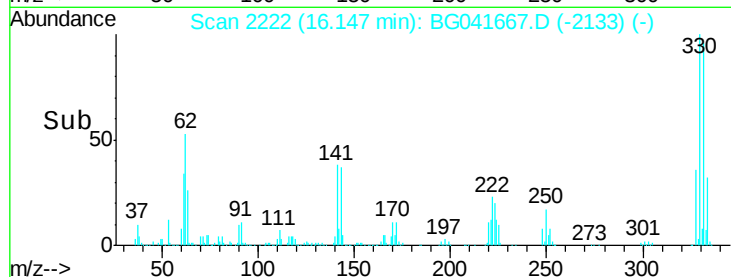
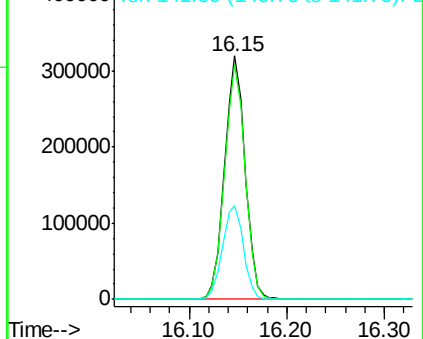
330 100

332 96.8 77.4 116.0

141 39.2 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: 81.090 ng

RT: 13.30 min Scan# 1737

Delta R.T. -0.00 min

Lab File: BG041667.D

Acq: 16 Jul 2019 14:25

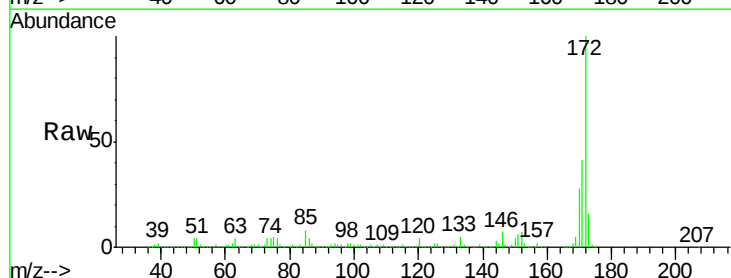
Tgt Ion:172 Resp: 1585582

Ion Ratio Lower Upper

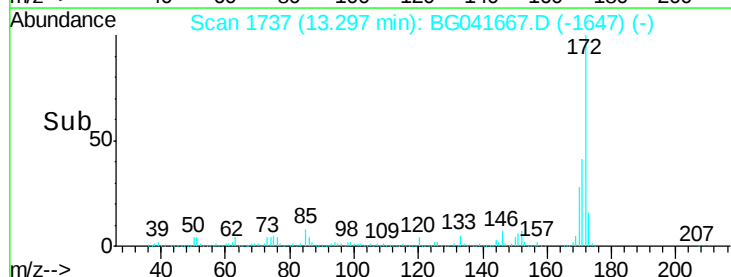
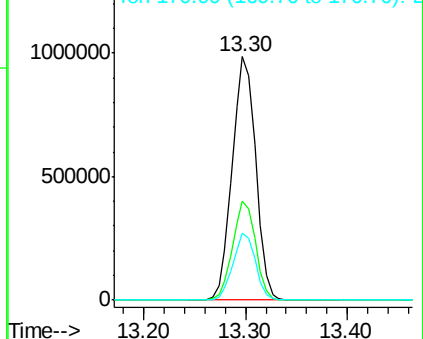
172 100

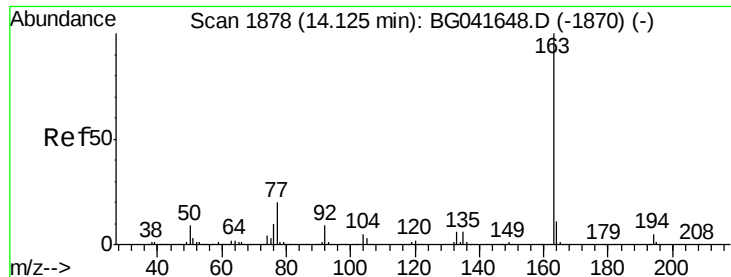
171 40.9 35.0 52.4

170 27.7 23.5 35.3



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

Dimethylphthalate

Concen: 13.120 ng

RT: 14.11 min Scan# 1876

Delta R.T. -0.02 min

Lab File: BG041667.D

Acq: 16 Jul 2019 14:25

Instrument :

BNA\_G

ClientSampleId :

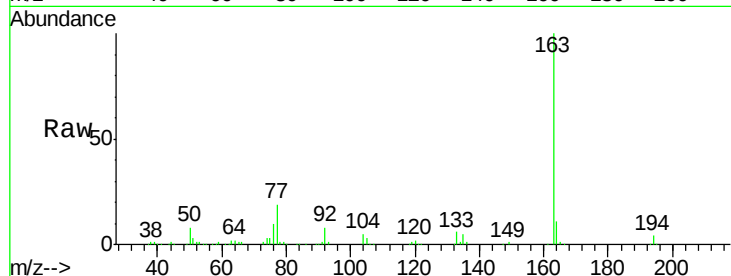
Tot Ion:163 Resp: 311986

Ion Ratio Lower Upper

163 100

194 4.4 4.2 6.2

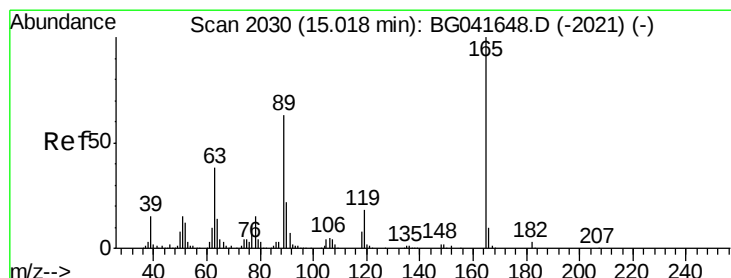
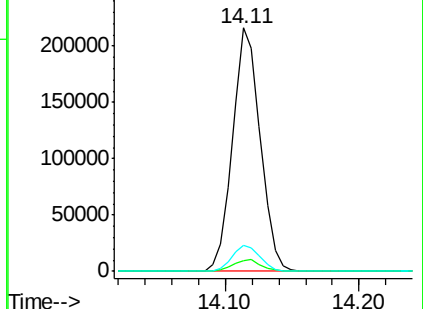
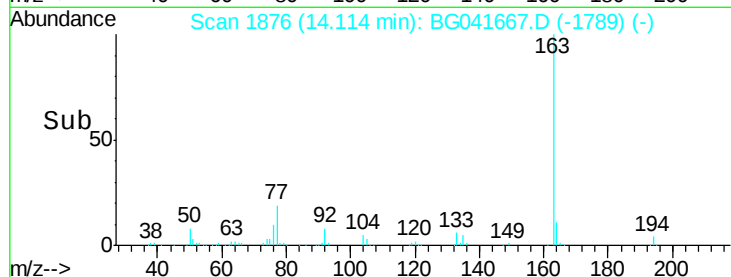
164 10.8 9.4 14.2



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#57

2,4-Dinitrotoluene

Concen: 5.918 ng

RT: 14.67 min Scan# 1970

Delta R.T. -0.36 min

Lab File: BG041667.D

Acq: 16 Jul 2019 14:25

Tgt Ion:165 Resp: 39459

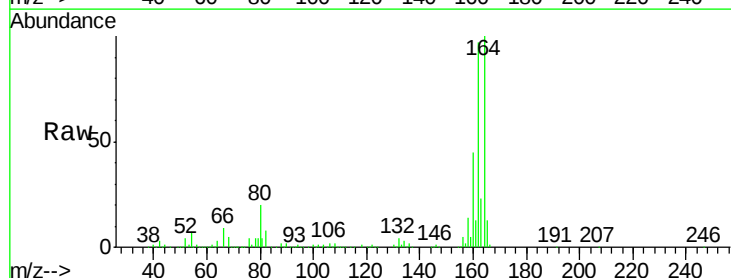
Ion Ratio Lower Upper

165 100

63 1.7 31.7 47.5#

89 2.1 50.2 75.4#

182 0.0 2.6 4.0#

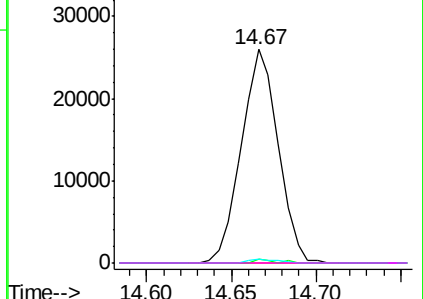
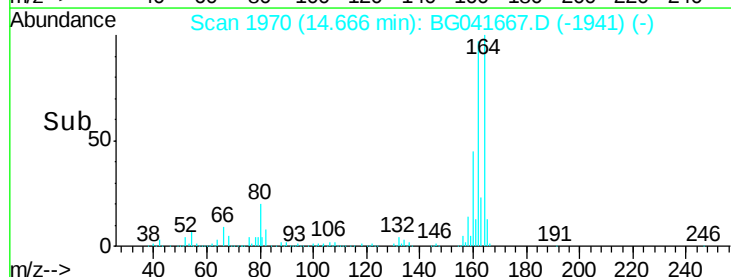


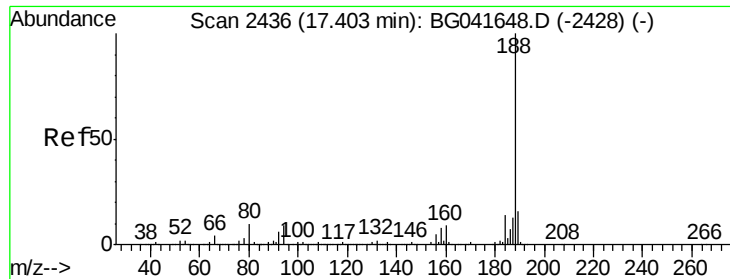
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.40 min Scan# 2436

Delta R.T. -0.00 min

Lab File: BG041667.D

Acq: 16 Jul 2019 14:25

Instrument :

BNA\_G

ClientSampleId :

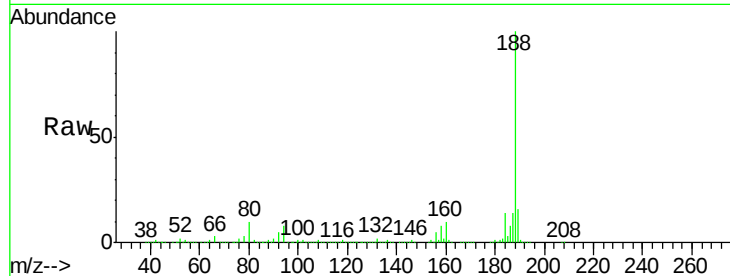
Tot Ion:188 Resp: 697047

Ion Ratio Lower Upper

188 100

94 8.4 6.9 10.3

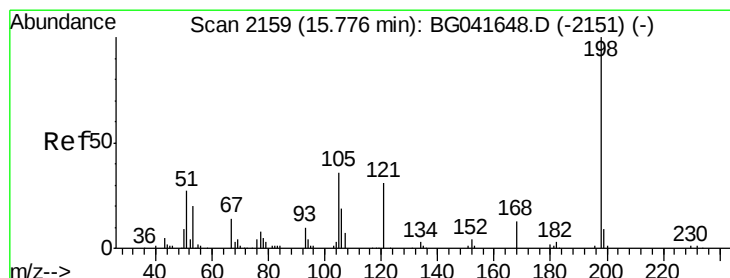
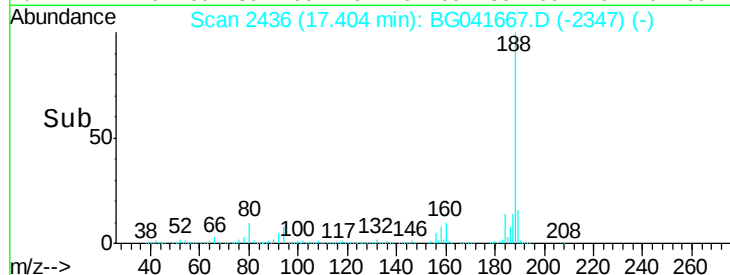
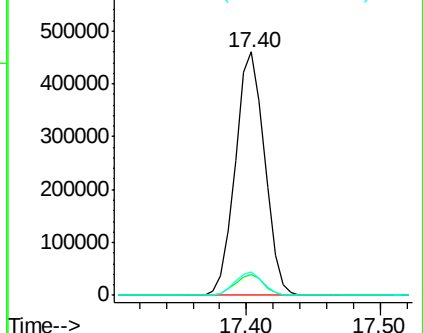
80 9.9 8.0 12.0



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: 6.689 ng

RT: 15.98 min Scan# 2193

Delta R.T. 0.20 min

Lab File: BG041667.D

Acq: 16 Jul 2019 14:25

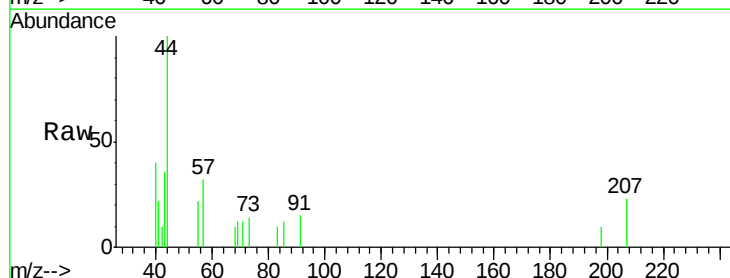
Tgt Ion:198 Resp: 57

Ion Ratio Lower Upper

198 100

51 0.0 22.3 62.3#

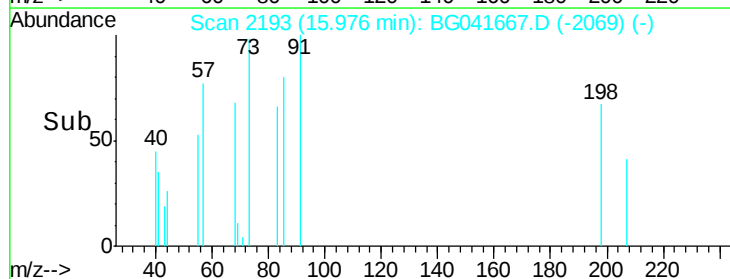
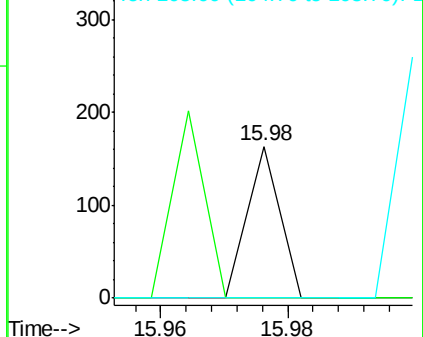
105 0.0 18.0 58.0#

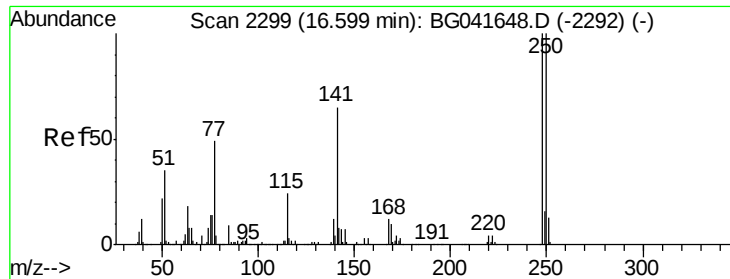


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BGC

Ion 105.00 (104.70 to 105.70): E

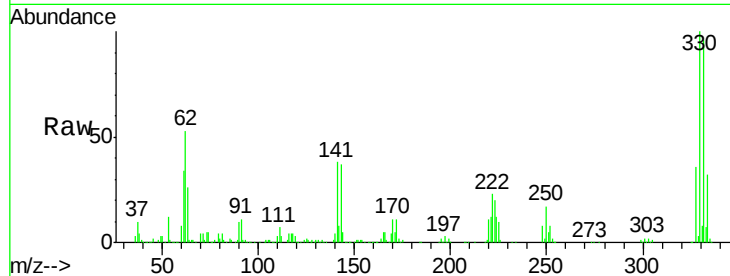




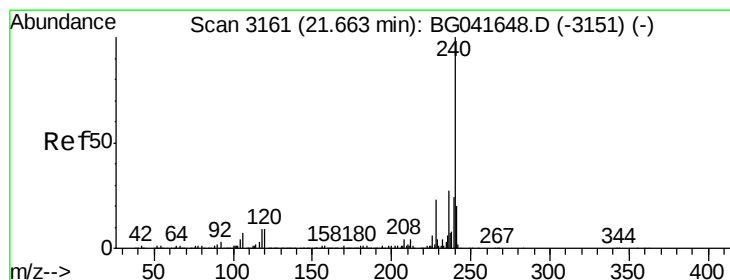
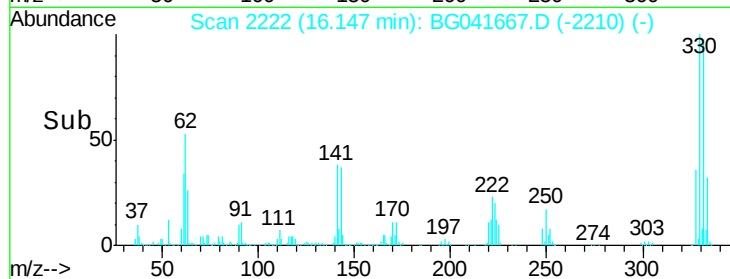
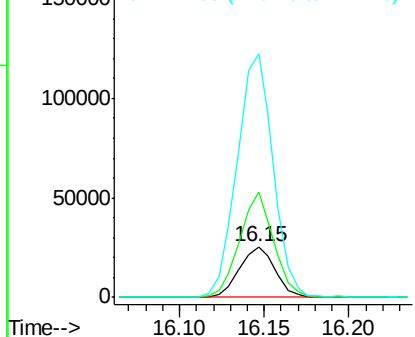
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.440 ng  
 RT: 16.15 min Scan# 2222  
 Delta R.T. -0.46 min  
 Lab File: BG041667.D  
 Acq: 16 Jul 2019 14:25

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:248 Resp: 36824  
 Ion Ratio Lower Upper  
 248 100  
 250 206.3 78.1 117.1#  
 141 477.7 49.6 74.4#

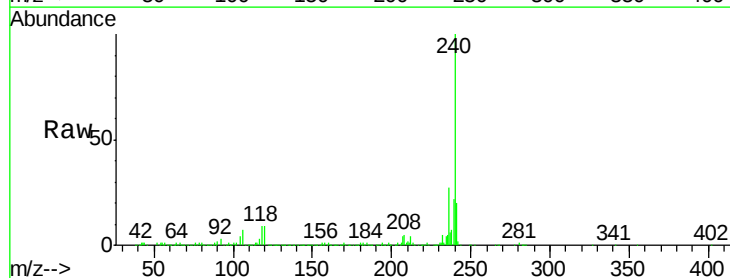


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

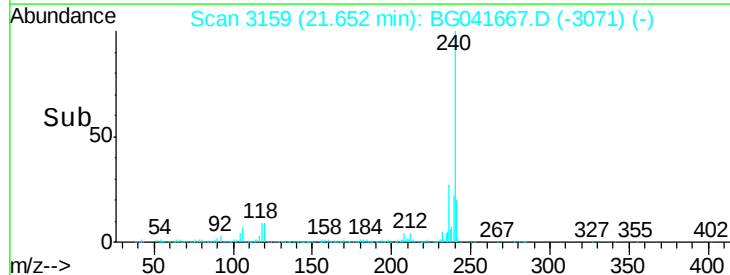
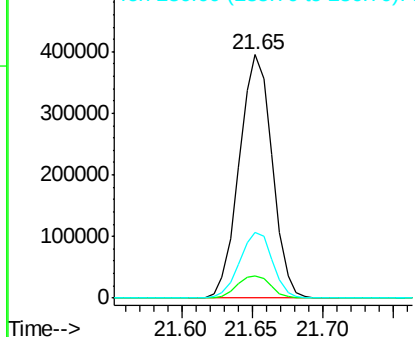


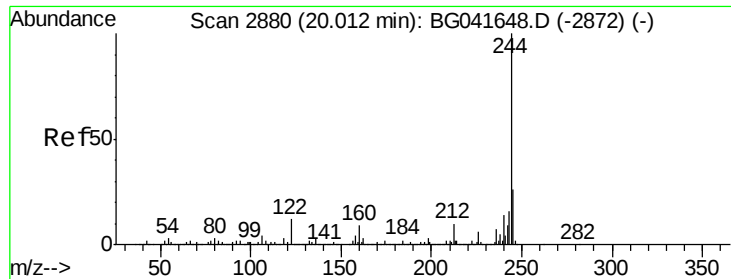
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.65 min Scan# 3159  
 Delta R.T. -0.01 min  
 Lab File: BG041667.D  
 Acq: 16 Jul 2019 14:25

Tgt Ion:240 Resp: 644795  
 Ion Ratio Lower Upper  
 240 100  
 120 9.0 8.0 12.0  
 236 27.1 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: 77.863 ng

RT: 20.01 min Scan# 2880

Delta R.T. 0.00 min

Lab File: BG041667.D

Acq: 16 Jul 2019 14:25

Instrument :

BNA\_G

ClientSampleId :

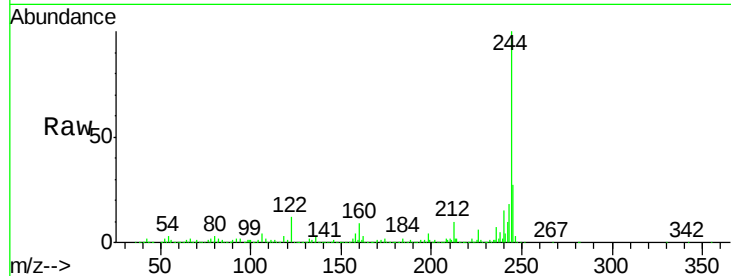
Tot Ion:244 Resp: 2148396

Ion Ratio Lower Upper

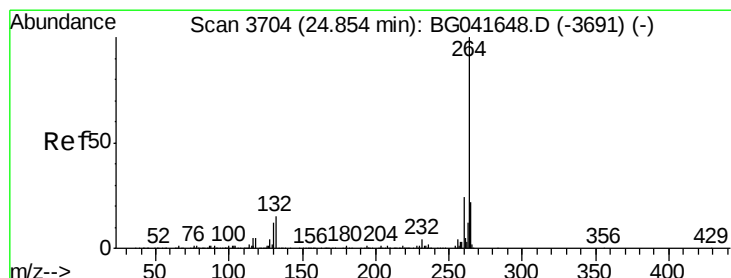
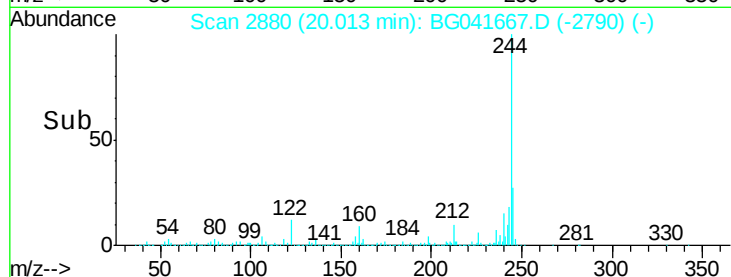
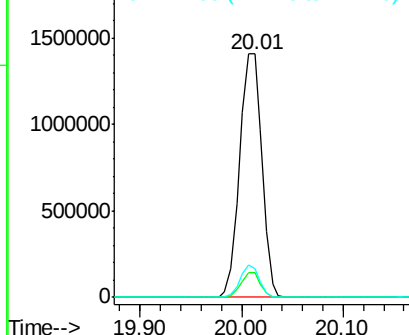
244 100

212 10.3 9.7 14.5

122 11.9 12.5 18.7#



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 24.85 min Scan# 3703

Delta R.T. -0.02 min

Lab File: BG041667.D

Acq: 16 Jul 2019 14:25

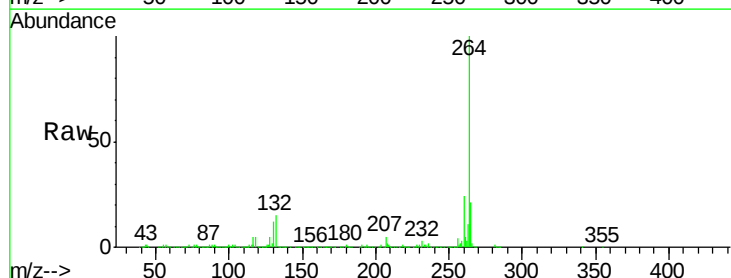
Tgt Ion:264 Resp: 742394

Ion Ratio Lower Upper

264 100

260 24.4 19.5 29.3

265 20.8 18.0 27.0



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

