

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG032619\  
 Data File : BG040159.D  
 Acq On : 26 Mar 2019 22:58  
 Operator : JU/SJ  
 Sample : K2099-04  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MH-C05-SETTLED-1H-B

Quant Time: Mar 27 01:27:10 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG030419.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 04 14:38:15 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.14  | 152  | 44222    | 20.00 | ng    | -0.03    |
| 21) Naphthalene-d8        | 10.96 | 136  | 219262   | 20.00 | ng    | -0.03    |
| 39) Acenaphthene-d10      | 14.76 | 164  | 114891   | 20.00 | ng    | -0.03    |
| 64) Phenanthrene-d10      | 17.51 | 188  | 259946   | 20.00 | ng    | -0.03    |
| 76) Chrysene-d12          | 21.79 | 240  | 265124   | 20.00 | ng    | -0.03    |
| 87) Perylene-d12          | 25.15 | 264  | 272264   | 20.00 | ng    | -0.05    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.69  | 112  | 118373   | 45.67 | ng    | -0.02    |
| 7) Phenol-d6                | 7.28  | 99   | 107261   | 27.75 | ng    | -0.03    |
| 23) Nitrobenzene-d5         | 9.32  | 82   | 328680   | 81.07 | ng    | -0.03    |
| 42) 2,4,6-Tribromophenol    | 16.25 | 330  | 131269   | 98.02 | ng    | -0.03    |
| 45) 2-Fluorobiphenyl        | 13.39 | 172  | 737071   | 91.34 | ng    | -0.03    |
| 79) Terphenyl-d14           | 20.10 | 244  | 960319   | 79.75 | ng    | -0.02    |

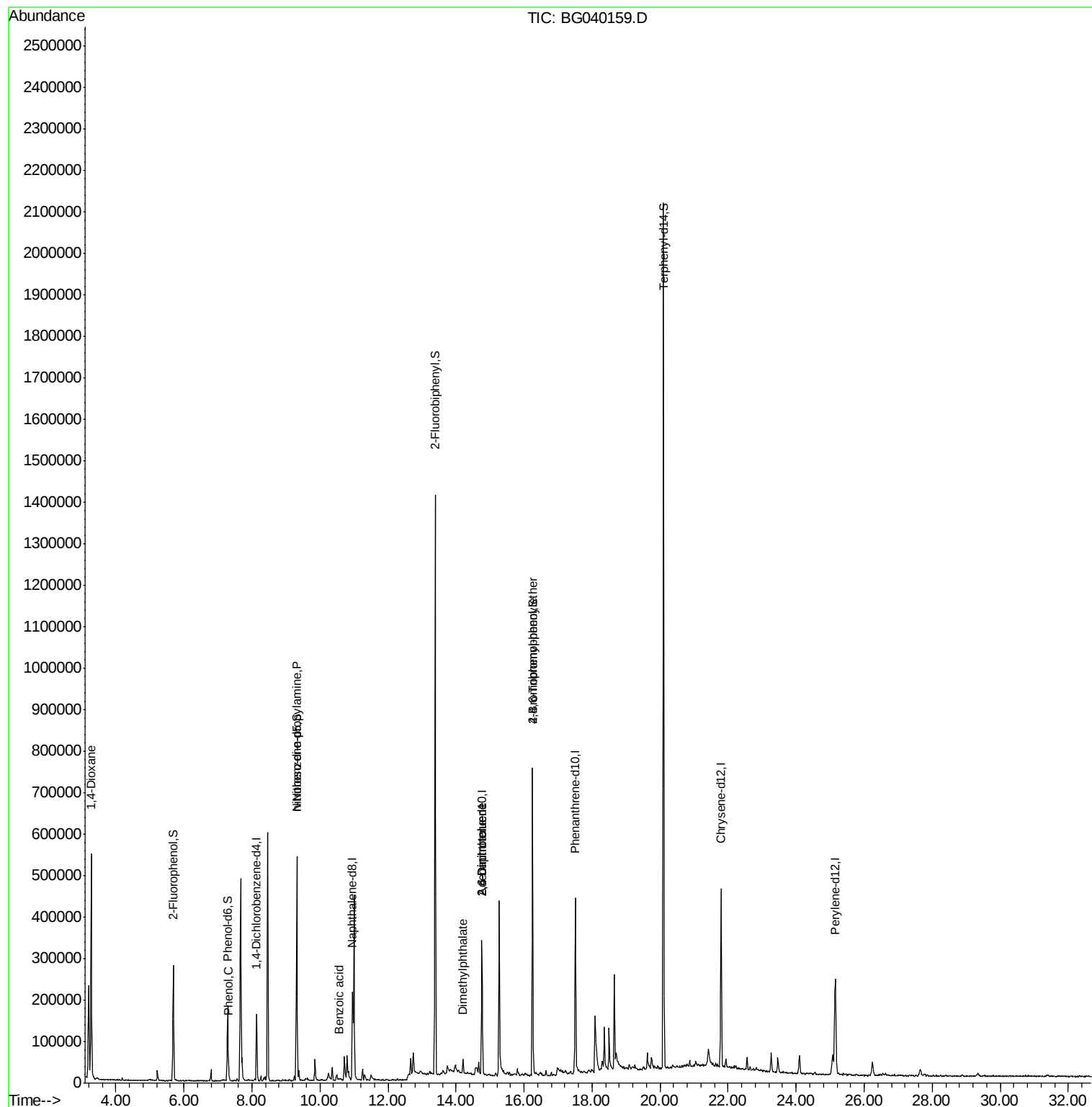
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 2) 1,4-Dioxane                 | 3.27  | 88   | 5653     | 4.724  | ng    | # 1    |
| 10) Phenol                     | 7.31  | 94   | 13225    | 3.159  | ng    | 91     |
| 19) n-Nitroso-di-n-propylamine | 9.32  | 70   | 43632    | 15.684 | ng    | # 67   |
| 32) Benzoic acid               | 10.55 | 122  | 62       | 6.623  | ng    | 88     |
| 50) Dimethylphthalate          | 14.20 | 163  | 21878    | 2.277  | ng    | 97     |
| 51) 2,6-Dinitrotoluene         | 14.76 | 165  | 14782    | 7.258  | ng    | # 24   |
| 57) 2,4-Dinitrotoluene         | 14.76 | 165  | 14782    | 5.165  | ng    | # 19   |
| 67) 4-Bromophenyl-phenylether  | 16.25 | 248  | 10272    | 3.530  | ng    | # 1    |

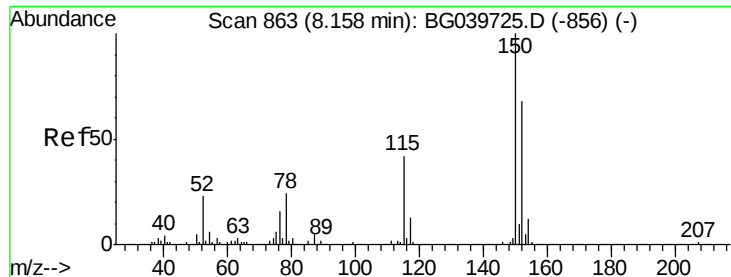
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Mar 04 14:38:15 2019  
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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.14 min Scan# 860

Delta R.T. -0.03 min

Lab File: BG040159.D

Acq: 26 Mar 2019 22:58

Instrument :

BNA\_G

ClientSampleId :

MH-C05-SETTLED-1H-B

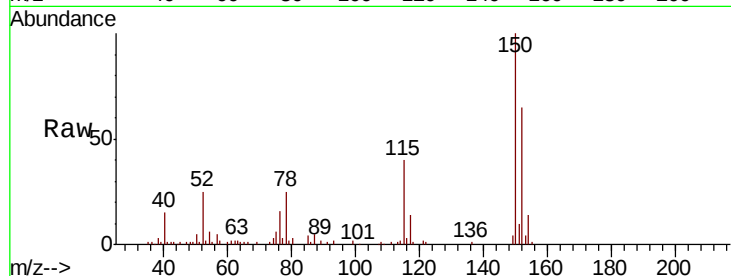
Tgt Ion:152 Resp: 44222

Ion Ratio Lower Upper

152 100

150 153.1 123.7 185.5

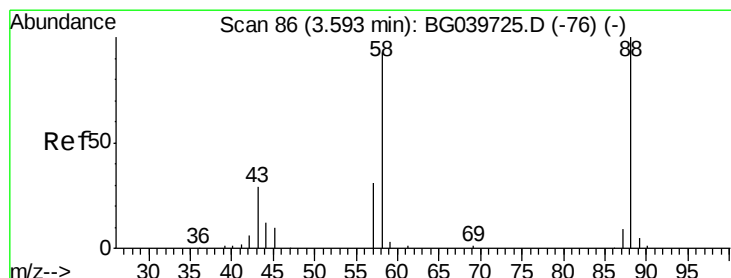
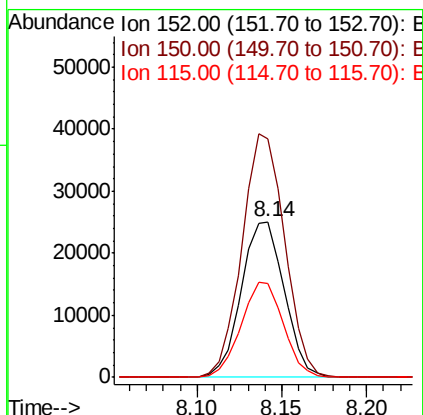
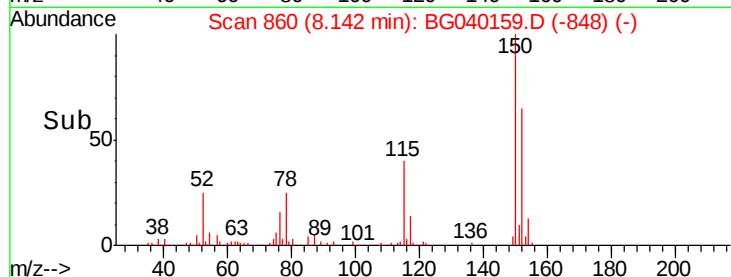
115 60.5 45.9 68.9



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



#2

1,4-Dioxane

Concen: 4.724 ng

RT: 3.27 min Scan# 31

Delta R.T. -0.33 min

Lab File: BG040159.D

Acq: 26 Mar 2019 22:58

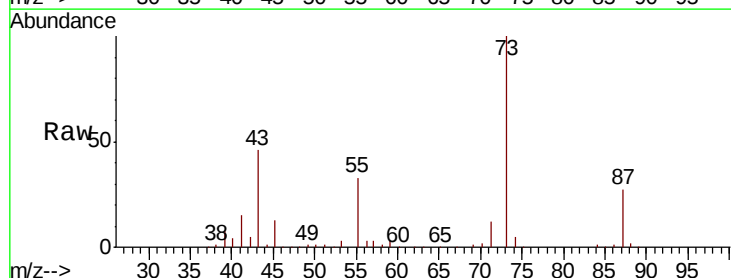
Tgt Ion: 88 Resp: 5653

Ion Ratio Lower Upper

88 100

58 30.7 81.1 121.7#

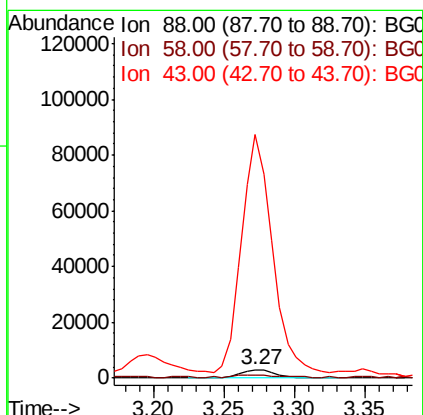
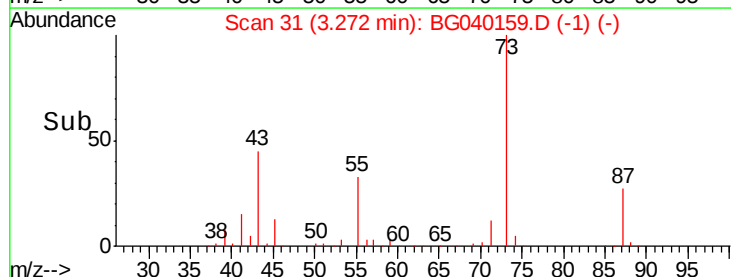
43 2373.7 31.4 47.0#

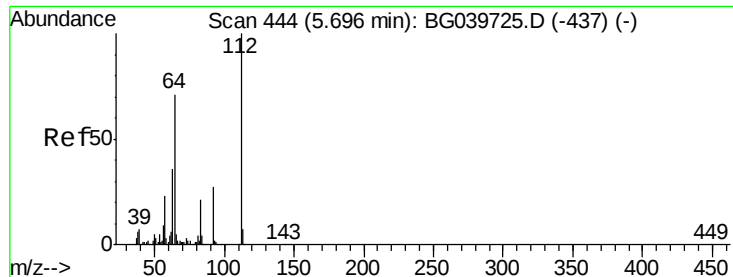


Abundance Ion 88.00 (87.70 to 88.70): BGC

Ion 58.00 (57.70 to 58.70): BGC

Ion 43.00 (42.70 to 43.70): BGC





#5

2-Fluorophenol

Concen: 45.666 ng

RT: 5.69 min Scan# 442

Delta R.T. -0.02 min

Lab File: BG040159.D

Acq: 26 Mar 2019 22:58

Instrument :

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ClientSampleId :

MH-C05-SETTLED-1H-B

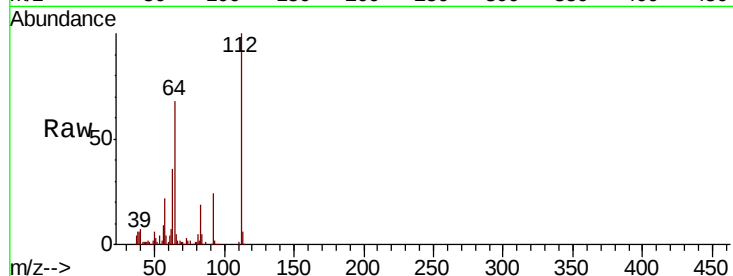
Tgt Ion: 112 Resp: 118373

Ion Ratio Lower Upper

112 100

64 68.5 57.8 86.8

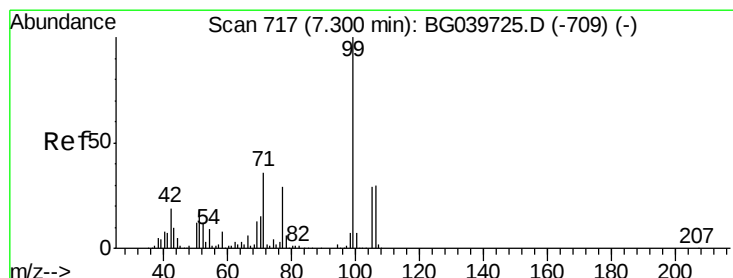
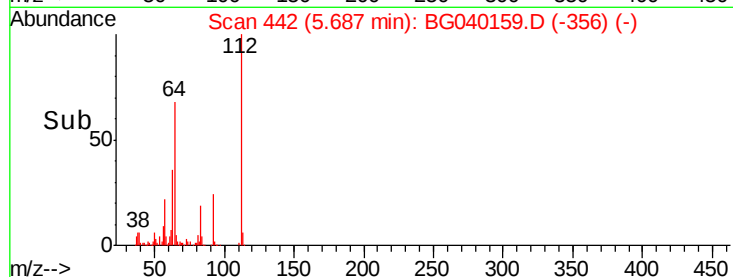
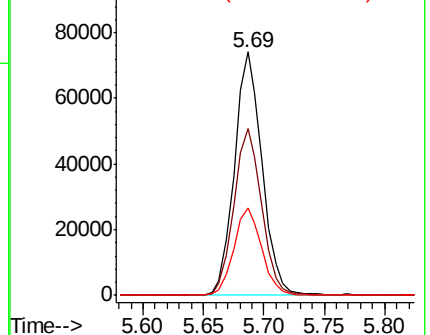
63 35.7 29.8 44.6



Abundance Ion 112.00 (111.70 to 112.70): BGC

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC



#7

Phenol-d6

Concen: 27.752 ng

RT: 7.28 min Scan# 714

Delta R.T. -0.03 min

Lab File: BG040159.D

Acq: 26 Mar 2019 22:58

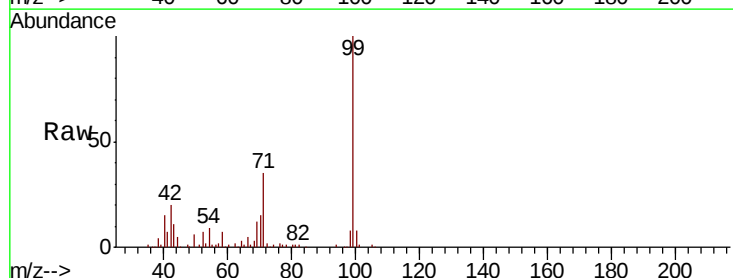
Tgt Ion: 99 Resp: 107261

Ion Ratio Lower Upper

99 100

42 19.6 18.2 27.2

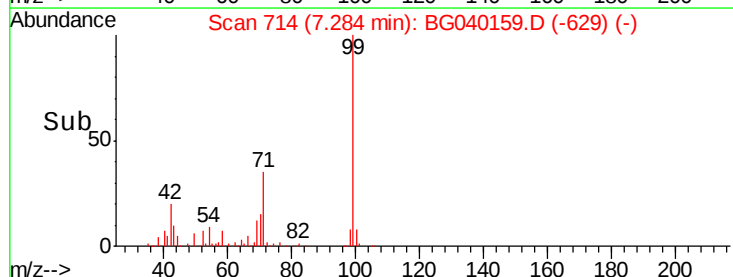
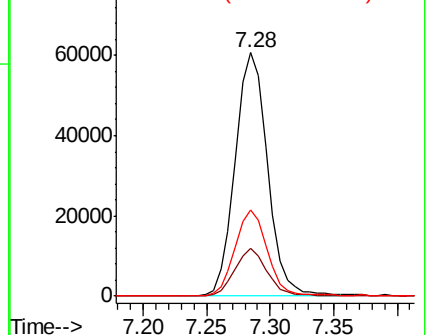
71 35.4 28.0 42.0

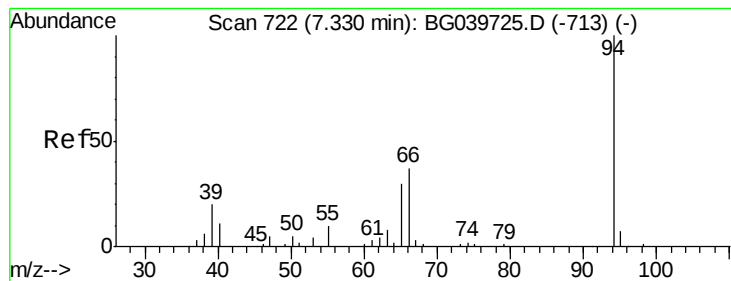


Abundance Ion 99.00 (98.70 to 99.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 71.00 (70.70 to 71.70): BGC





#10

Phenol

Concen: 3.159 ng

RT: 7.31 min Scan# 719

Delta R.T. -0.02 min

Lab File: BG040159.D

Acq: 26 Mar 2019 22:58

Instrument :

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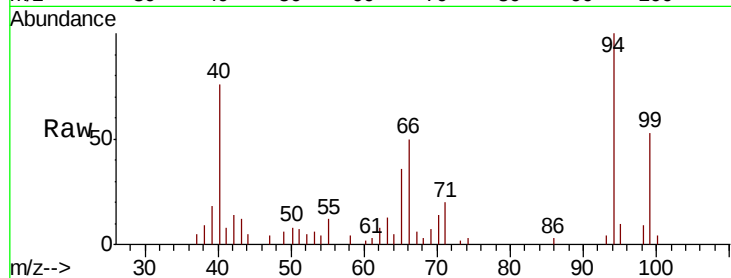
Tgt Ion: 94 Resp: 13225

Ion Ratio Lower Upper

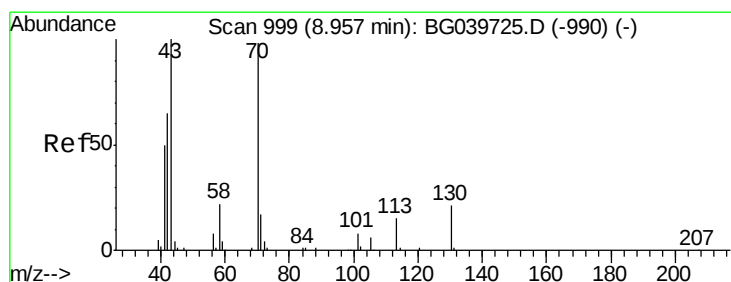
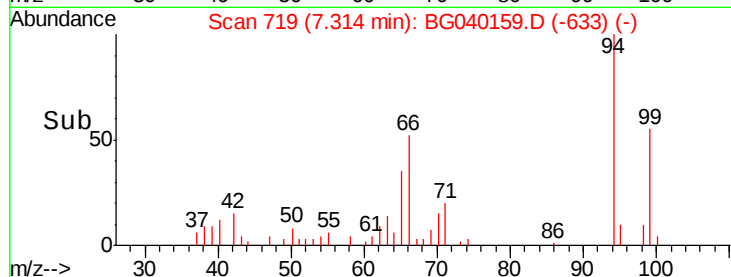
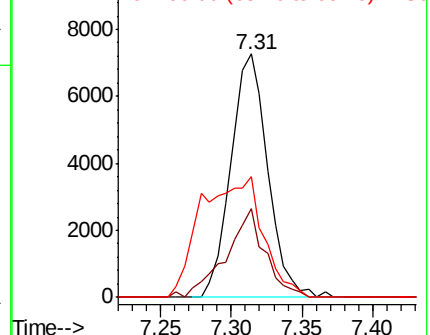
94 100

65 36.2 11.7 51.7

66 49.7 23.7 63.7



Abundance Ion 94.00 (93.70 to 94.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC



#19

n-Nitroso-di-n-propylamine

Concen: 15.684 ng

RT: 9.32 min Scan# 1060

Delta R.T. 0.35 min

Lab File: BG040159.D

Acq: 26 Mar 2019 22:58

Tgt Ion: 70 Resp: 43632

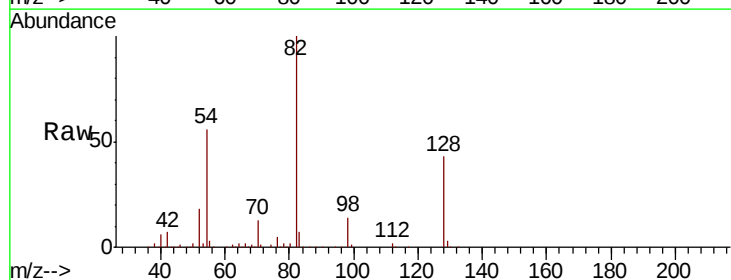
Ion Ratio Lower Upper

70 100

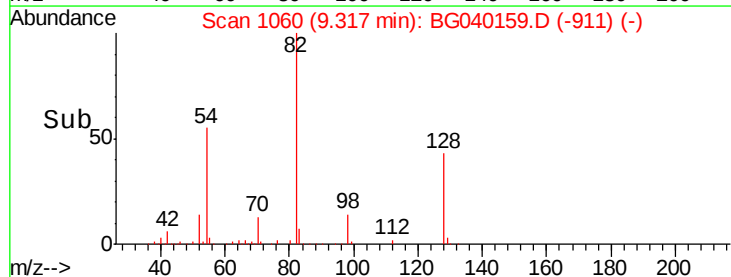
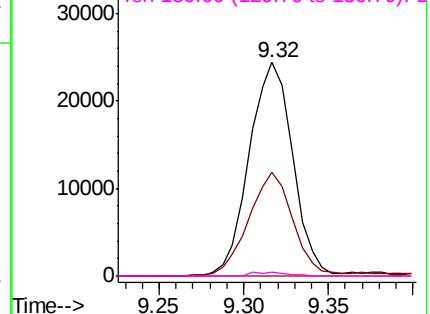
42 48.9 60.4 90.6#

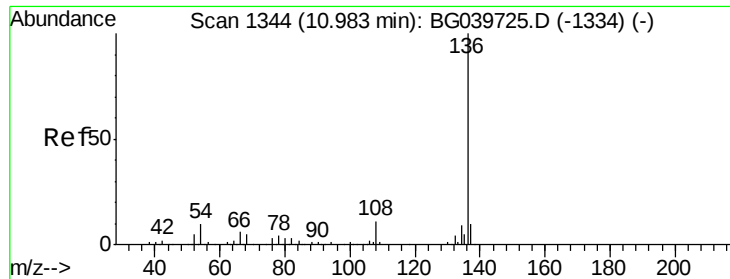
101 0.0 7.5 11.3#

130 2.1 16.9 25.3#



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

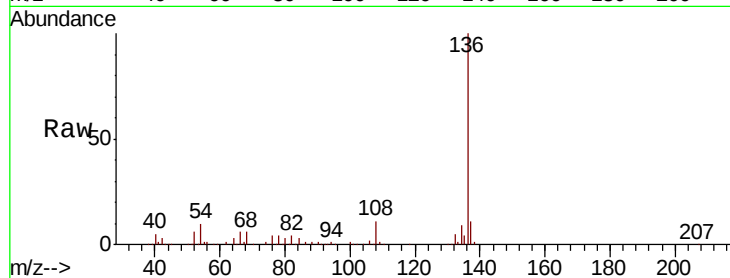




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.96 min Scan# 1339  
Delta R.T. -0.03 min  
Lab File: BG040159.D  
Acq: 26 Mar 2019 22:58

Instrument :  
BNA\_G  
ClientSampleId :  
MH-C05-SETTLED-1H-B

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 219262 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.9  | 9.1   | 13.7   |
| 54       | 10.0  | 9.4   | 14.2   |
| 68       | 6.0   | 4.2   | 6.4    |



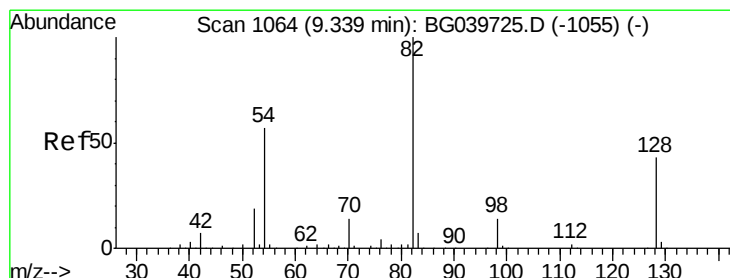
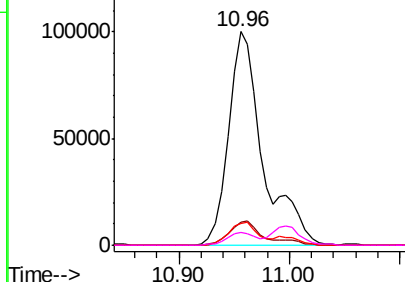
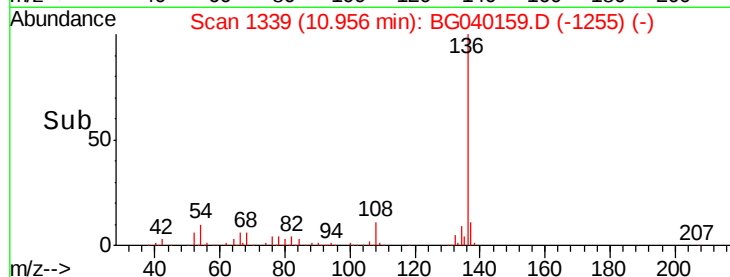
Abundance

Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

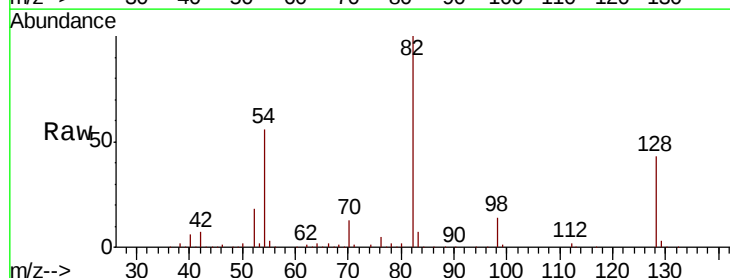
Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC



#23  
Nitrobenzene-d5  
Concen: 81.074 ng  
RT: 9.32 min Scan# 1060  
Delta R.T. -0.03 min  
Lab File: BG040159.D  
Acq: 26 Mar 2019 22:58

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 328680 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 42.9  | 31.3  | 46.9   |
| 54       | 56.3  | 50.9  | 76.3   |

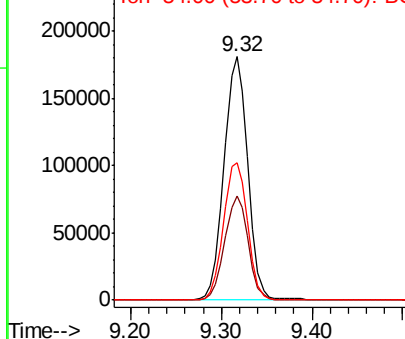
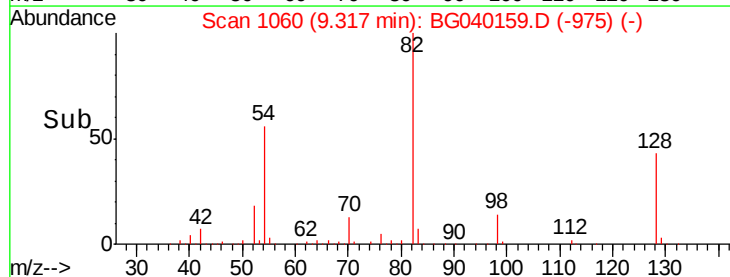


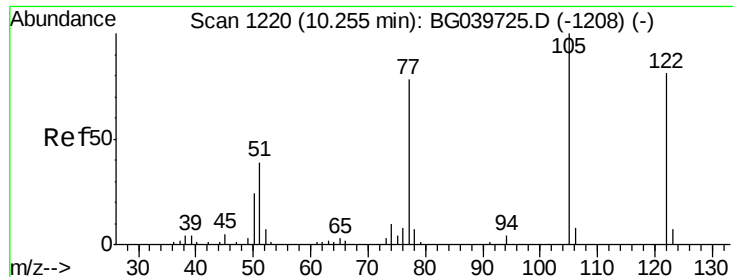
Abundance

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

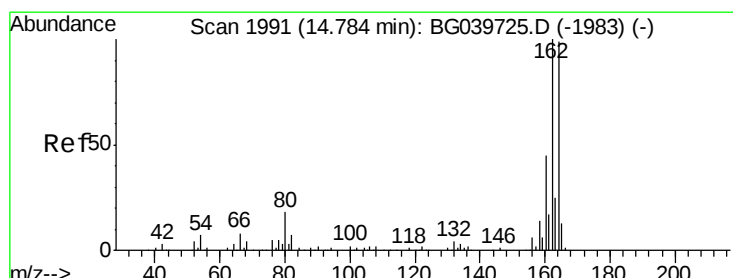
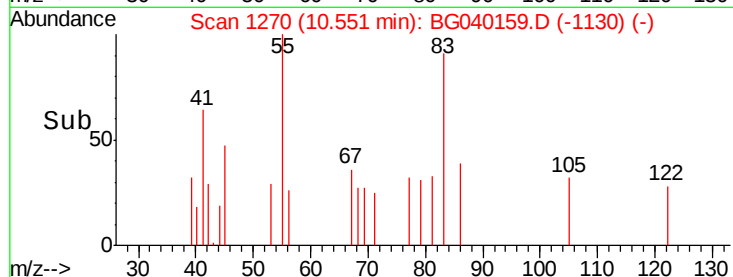
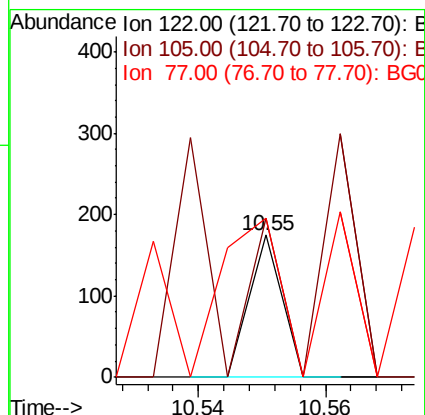
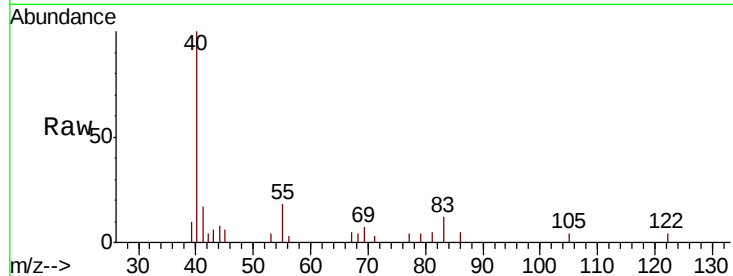




#32  
Benzoic acid  
Concen: 6.623 ng  
RT: 10.55 min Scan# 1270  
Delta R.T. 0.29 min  
Lab File: BG040159.D  
Acq: 26 Mar 2019 22:58

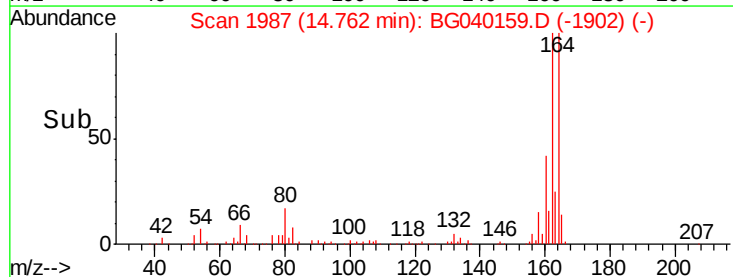
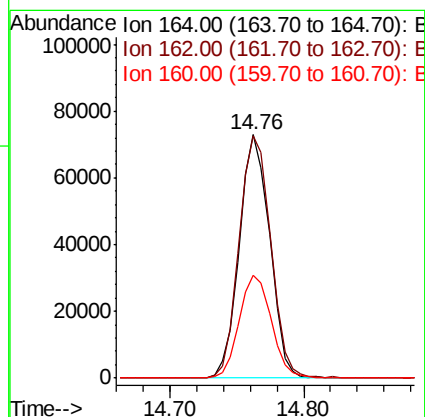
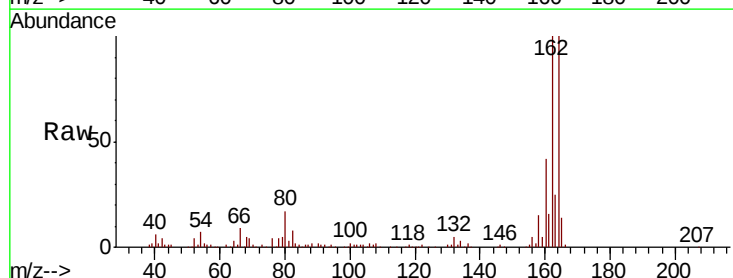
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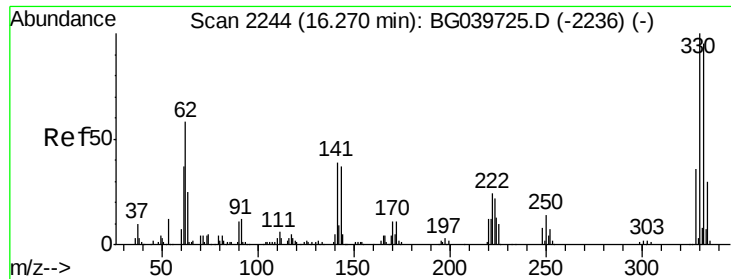
Tgt Ion:122 Resp: 62  
Ion Ratio Lower Upper  
122 100  
105 112.0 101.8 141.8  
77 111.4 76.3 116.3



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.76 min Scan# 1987  
Delta R.T. -0.03 min  
Lab File: BG040159.D  
Acq: 26 Mar 2019 22:58

Tgt Ion:164 Resp: 114891  
Ion Ratio Lower Upper  
164 100  
162 99.6 81.6 122.4  
160 42.2 34.2 51.2

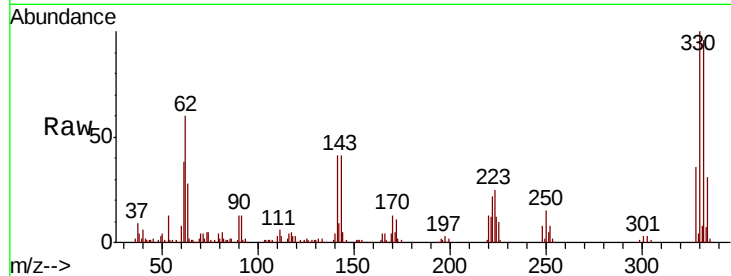




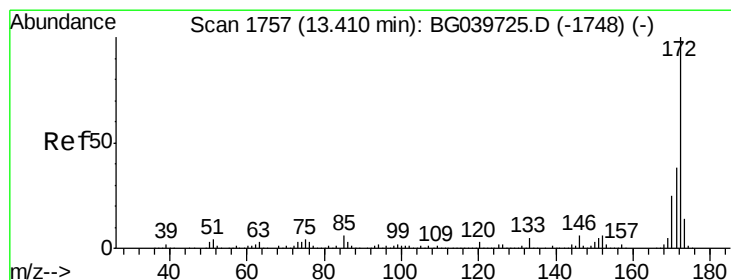
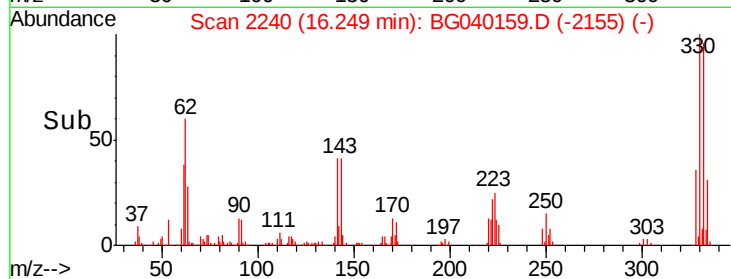
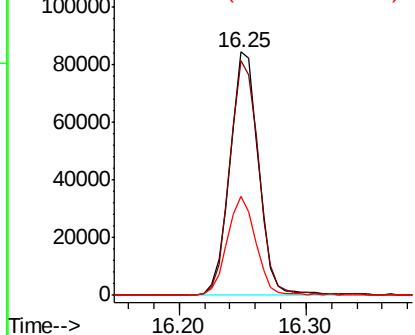
#42  
 2,4,6-Tribromophenol  
 Concen: 98.025 ng  
 RT: 16.25 min Scan# 2240  
 Delta R.T. -0.03 min  
 Lab File: BG040159.D  
 Acq: 26 Mar 2019 22:58

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MH-C05-SETTLED-1H-B

Tgt Ion:330 Resp: 131269  
 Ion Ratio Lower Upper  
 330 100  
 332 97.7 75.7 113.5  
 141 40.5 35.6 53.4

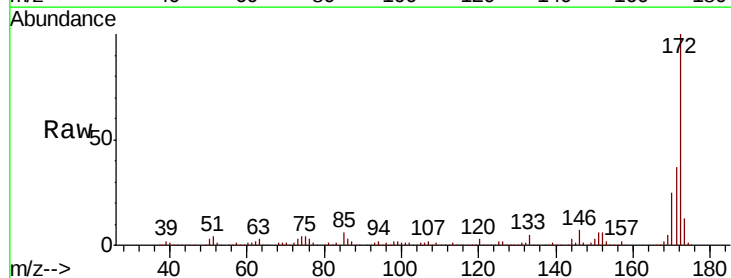


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

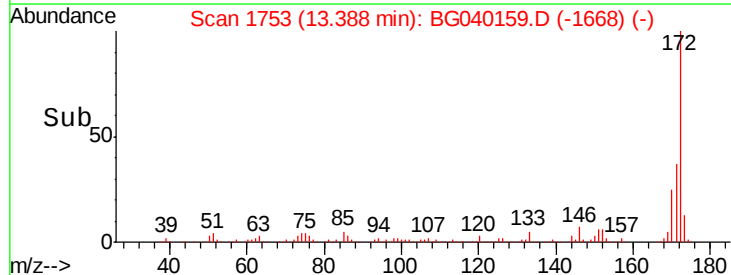
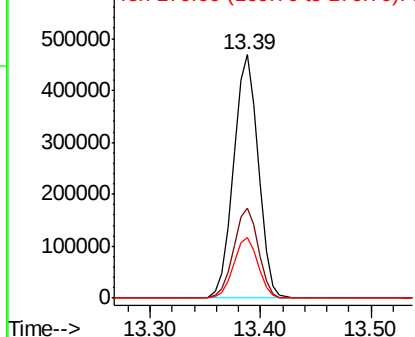


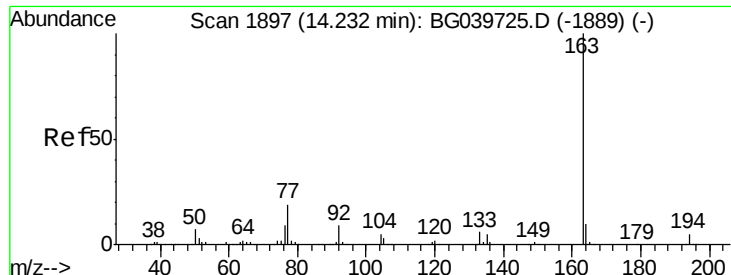
#45  
 2-Fluorobiphenyl  
 Concen: 91.344 ng  
 RT: 13.39 min Scan# 1753  
 Delta R.T. -0.03 min  
 Lab File: BG040159.D  
 Acq: 26 Mar 2019 22:58

Tgt Ion:172 Resp: 737071  
 Ion Ratio Lower Upper  
 172 100  
 171 36.8 30.8 46.2  
 170 24.7 20.2 30.4



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

Dimethylphthalate

Concen: 2.277 ng

RT: 14.20 min Scan# 1892

Delta R.T. -0.03 min

Lab File: BG040159.D

Acq: 26 Mar 2019 22:58

Instrument :

BNA\_G

ClientSampleId :

MH-C05-SETTLED-1H-B

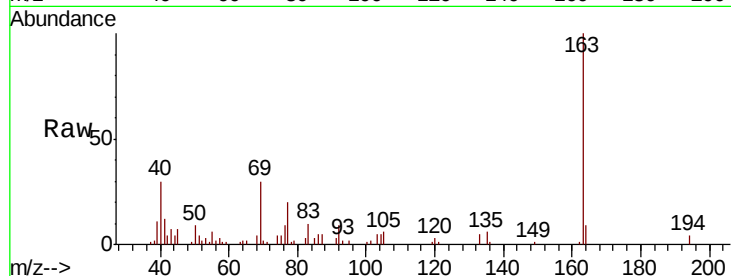
Tgt Ion:163 Resp: 21878

Ion Ratio Lower Upper

163 100

194 4.2 3.6 5.4

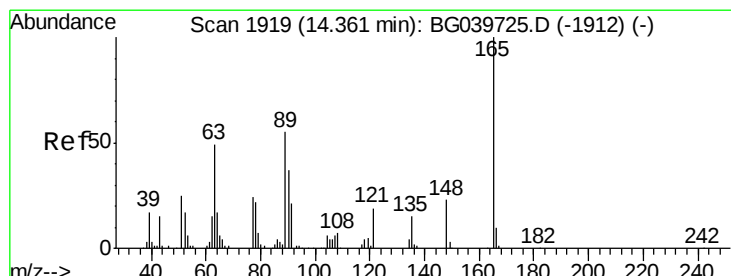
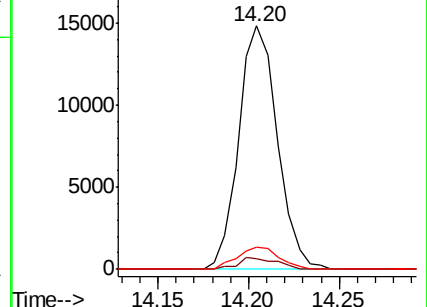
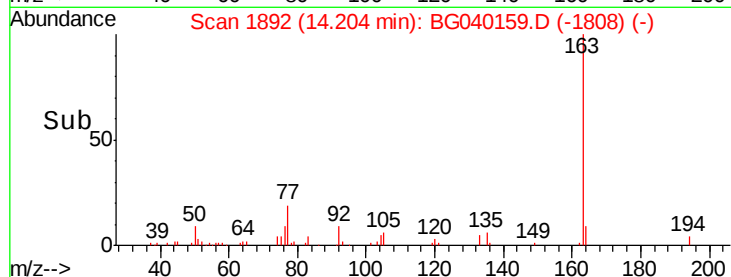
164 9.0 8.4 12.6



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



#51

2,6-Dinitrotoluene

Concen: 7.258 ng

RT: 14.76 min Scan# 1987

Delta R.T. 0.39 min

Lab File: BG040159.D

Acq: 26 Mar 2019 22:58

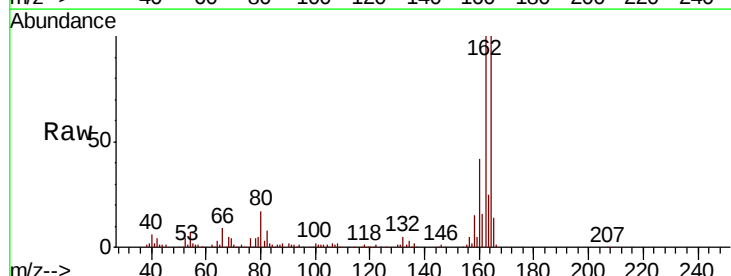
Tgt Ion:165 Resp: 14782

Ion Ratio Lower Upper

165 100

63 2.5 47.0 70.6#

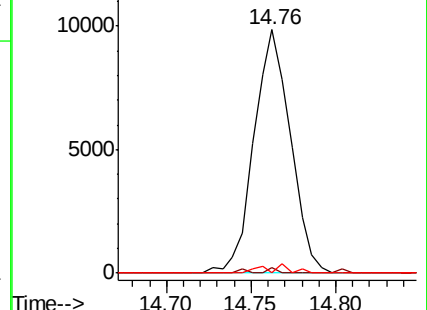
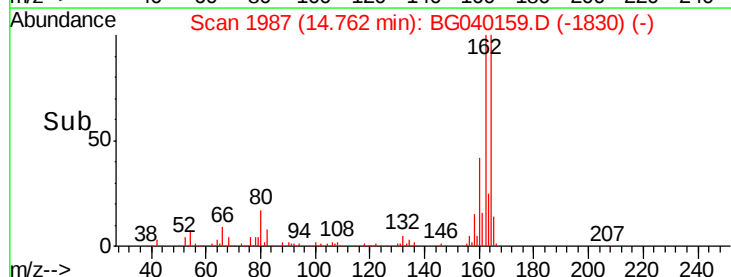
89 0.0 45.8 68.8#

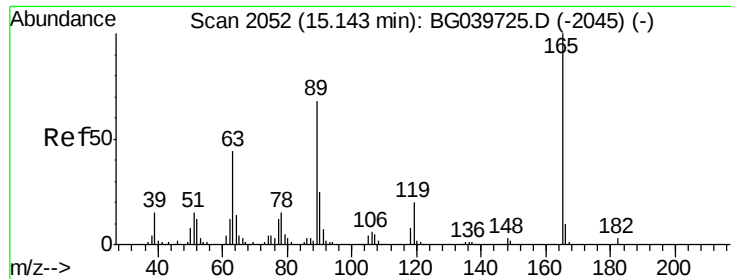


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

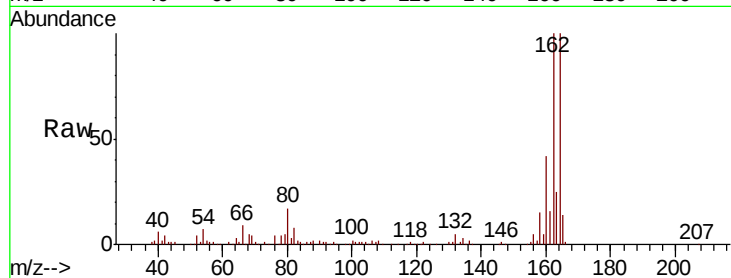




#57  
 2,4-Dinitrotoluene  
 Concen: 5.165 ng  
 RT: 14.76 min Scan# 1987  
 Delta R.T. -0.39 min  
 Lab File: BG040159.D  
 Acq: 26 Mar 2019 22:58

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MH-C05-SETTLED-1H-B

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.5   | 41.0  | 61.6# |
| 89      | 0.0   | 64.6  | 96.8# |
| 182     | 0.0   | 2.0   | 3.0#  |



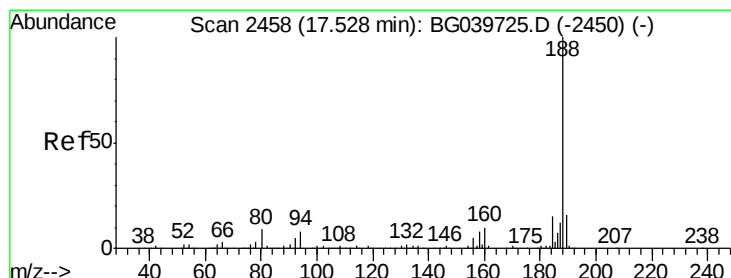
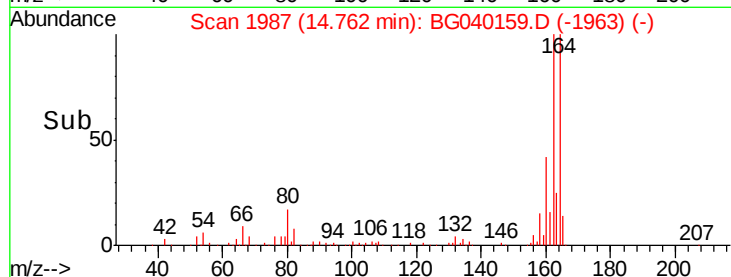
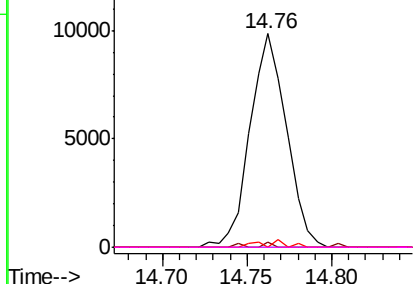
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

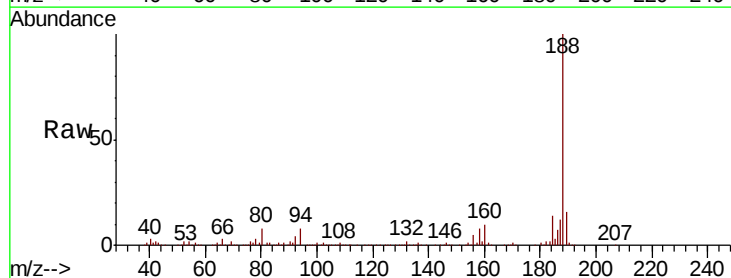
Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.51 min Scan# 2454  
 Delta R.T. -0.03 min  
 Lab File: BG040159.D  
 Acq: 26 Mar 2019 22:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 7.8   | 6.9   | 10.3  |
| 80      | 8.1   | 8.1   | 12.1  |

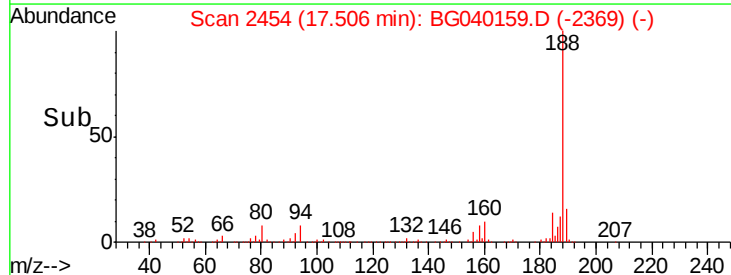
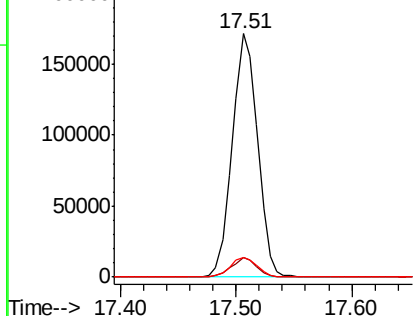


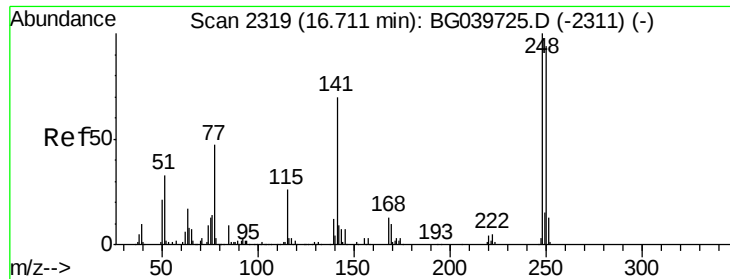
Abundance

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

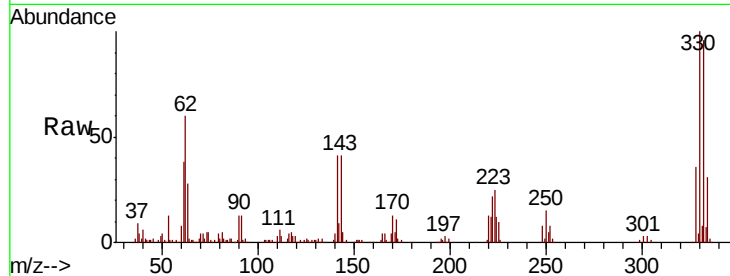




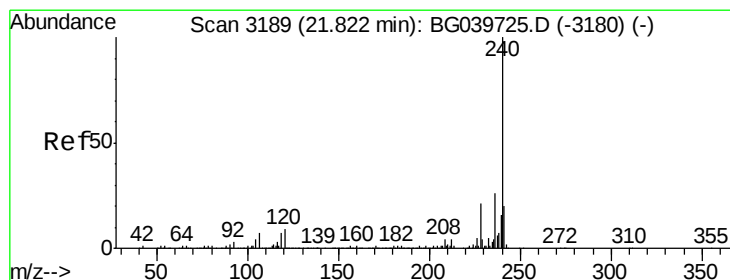
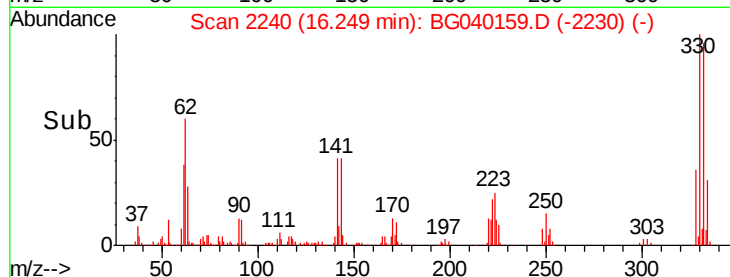
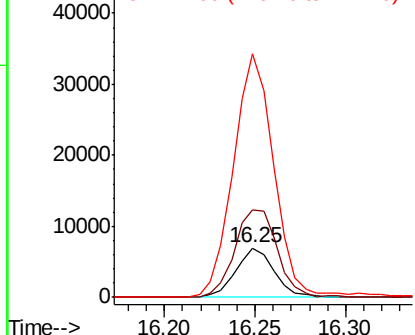
#67  
 4-Bromophenyl-phenylether  
 Concen: 3.530 ng  
 RT: 16.25 min Scan# 2240  
 Delta R.T. -0.47 min  
 Lab File: BG040159.D  
 Acq: 26 Mar 2019 22:58

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MH-C05-SETTLED-1H-B

Tgt Ion:248 Resp: 10272  
 Ion Ratio Lower Upper  
 248 100  
 250 178.6 77.6 116.4#  
 141 494.8 63.9 95.9#

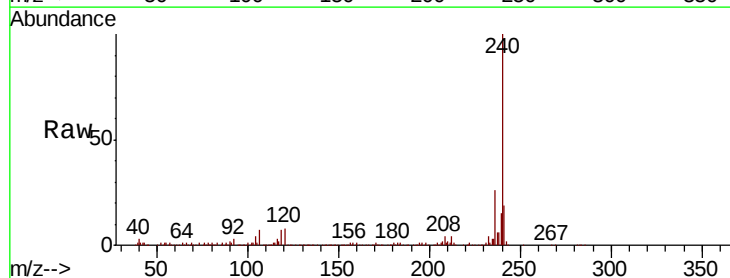


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

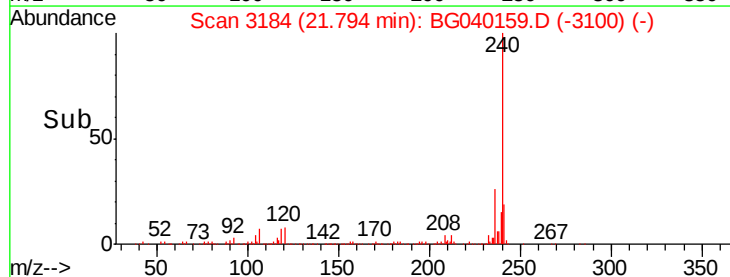
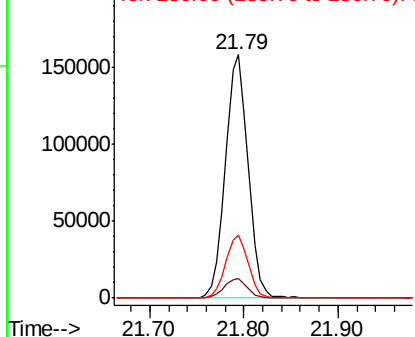


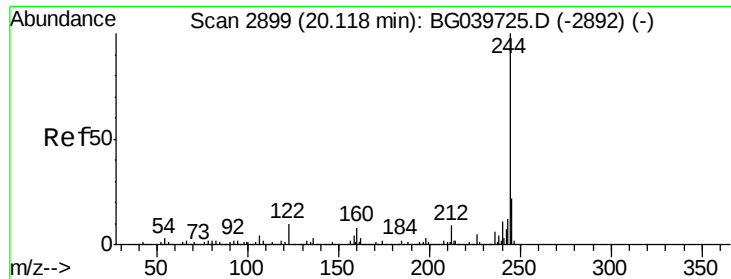
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.79 min Scan# 3184  
 Delta R.T. -0.03 min  
 Lab File: BG040159.D  
 Acq: 26 Mar 2019 22:58

Tgt Ion:240 Resp: 265124  
 Ion Ratio Lower Upper  
 240 100  
 120 7.8 7.0 10.6  
 236 25.8 21.0 31.4



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

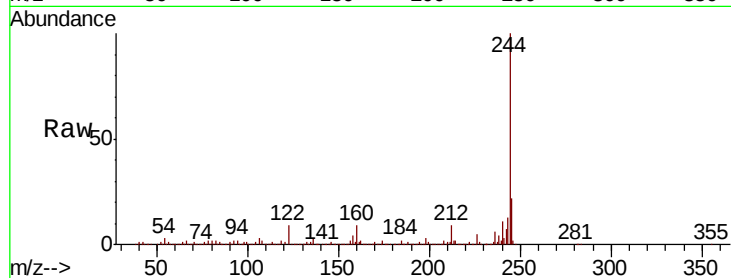




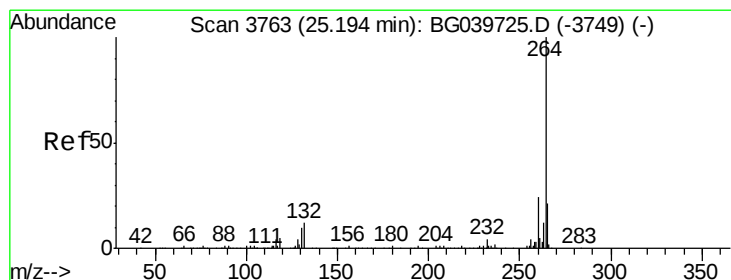
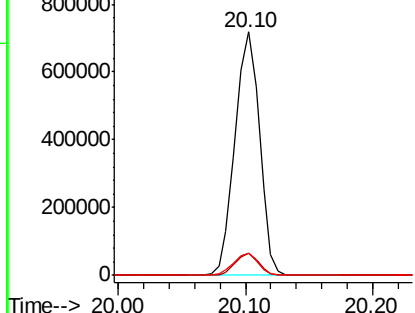
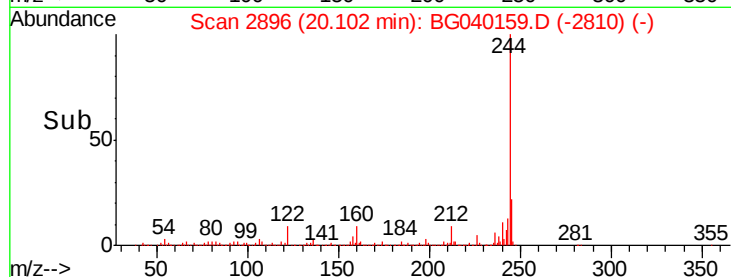
#79  
 Terphenyl-d14  
 Concen: 79.753 ng  
 RT: 20.10 min Scan# 2896  
 Delta R.T. -0.02 min  
 Lab File: BG040159.D  
 Acq: 26 Mar 2019 22:58

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MH-C05-SETTLED-1H-B

Tgt Ion:244 Resp: 960319  
 Ion Ratio Lower Upper  
 244 100  
 212 9.0 7.3 10.9  
 122 9.0 8.4 12.6

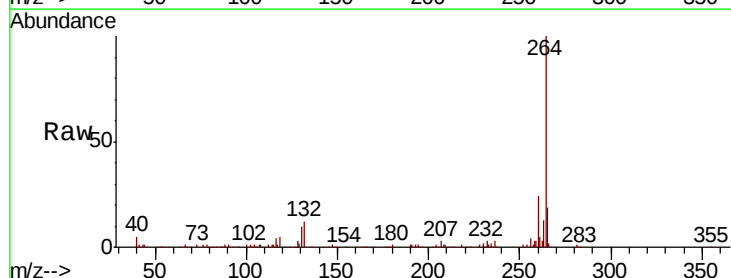


Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 25.15 min Scan# 3755  
 Delta R.T. -0.05 min  
 Lab File: BG040159.D  
 Acq: 26 Mar 2019 22:58

Tgt Ion:264 Resp: 272264  
 Ion Ratio Lower Upper  
 264 100  
 260 23.6 18.2 27.4  
 265 19.4 18.5 27.7



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

