

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG100419\  
 Data File : BG043038.D  
 Acq On : 4 Oct 2019 21:28  
 Operator : JU  
 Sample : K5154-11  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MW-103I

Quant Time: Oct 05 04:53:06 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG092519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 25 15:35:52 2019  
 Response via : Initial Calibration

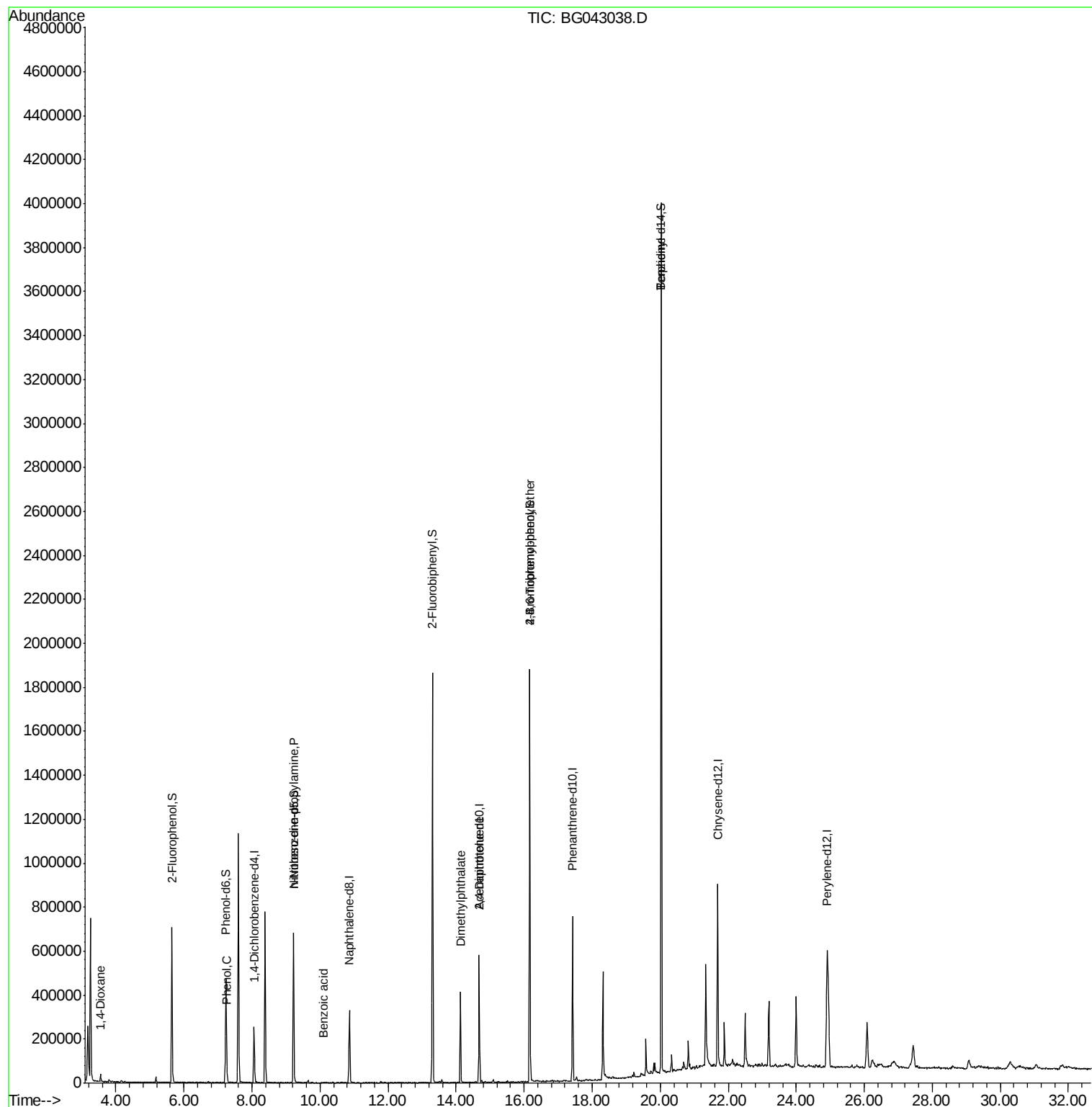
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.06  | 152  | 74034    | 20.00  | ng    | -0.01     |
| 21) Naphthalene-d8             | 10.86 | 136  | 285954   | 20.00  | ng    | -0.02     |
| 39) Acenaphthene-d10           | 14.68 | 164  | 203015   | 20.00  | ng    | -0.01     |
| 64) Phenanthrene-d10           | 17.42 | 188  | 480380   | 20.00  | ng    | -0.01     |
| 76) Chrysene-d12               | 21.69 | 240  | 513886   | 20.00  | ng    | -0.03     |
| 87) Perylene-d12               | 24.91 | 264  | 601085   | 20.00  | ng    | -0.05     |
| System Monitoring Compounds    |       |      |          |        |       |           |
| 5) 2-Fluorophenol              | 5.64  | 112  | 303061   | 73.05  | ng    | -0.01     |
| 7) Phenol-d6                   | 7.23  | 99   | 272852   | 45.67  | ng    | -0.01     |
| 23) Nitrobenzene-d5            | 9.22  | 82   | 425047   | 72.25  | ng    | -0.01     |
| 42) 2,4,6-Tribromophenol       | 16.17 | 330  | 402179   | 115.21 | ng    | -0.01     |
| 45) 2-Fluorobiphenyl           | 13.31 | 172  | 1025703  | 73.24  | ng    | -0.02     |
| 79) Terphenyl-d14              | 20.03 | 244  | 1886053  | 78.21  | ng    | -0.01     |
| Target Compounds               |       |      |          |        |       |           |
| 2) 1,4-Dioxane                 | 3.55  | 88   | 18989    | 10.979 | ng    | Qvalue 87 |
| 10) Phenol                     | 7.26  | 94   | 37819    | 6.900  | ng    | 98        |
| 19) n-Nitroso-di-n-propylamine | 9.22  | 70   | 58964    | 15.031 | ng    | # 73      |
| 32) Benzoic acid               | 10.10 | 122  | 59       | 2.821  | ng    | # 34      |
| 50) Dimethylphthalate          | 14.13 | 163  | 277788   | 18.262 | ng    | 98        |
| 57) 2,4-Dinitrotoluene         | 14.68 | 165  | 26890    | 5.669  | ng    | # 24      |
| 67) 4-Bromophenyl-phenylether  | 16.17 | 248  | 28337    | 4.700  | ng    | # 1       |
| 77) Benzidine                  | 20.03 | 184  | 30750    | 2.390  | ng    | # 92      |

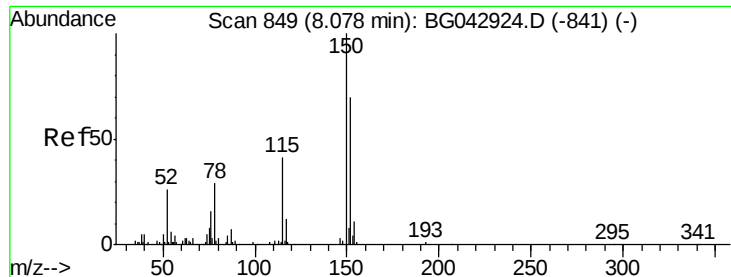
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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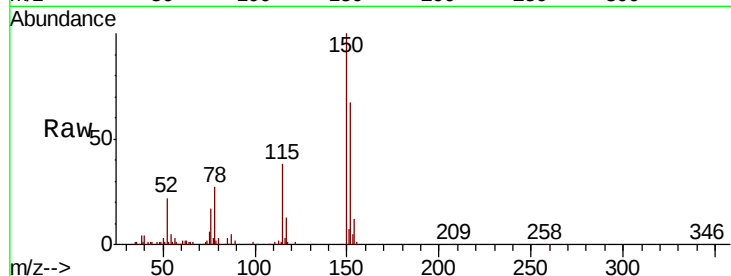


#1

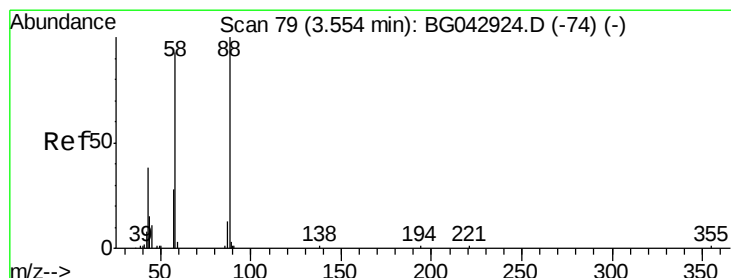
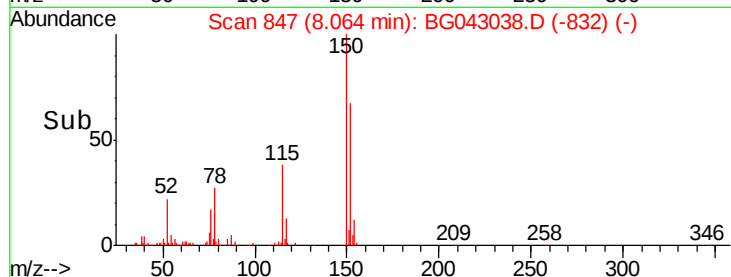
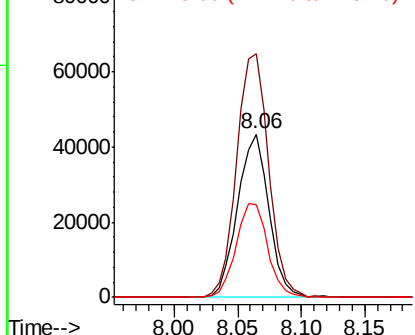
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.06 min Scan# 847  
Delta R.T. -0.01 min  
Lab File: BG043038.D  
Acq: 4 Oct 2019 21:28

Instrument :  
BNA\_G  
ClientSampleId :  
MW-103I

Tot Ion:152 Resp: 74034  
Ion Ratio Lower Upper  
152 100  
150 149.3 115.0 172.4  
115 56.6 47.0 70.6



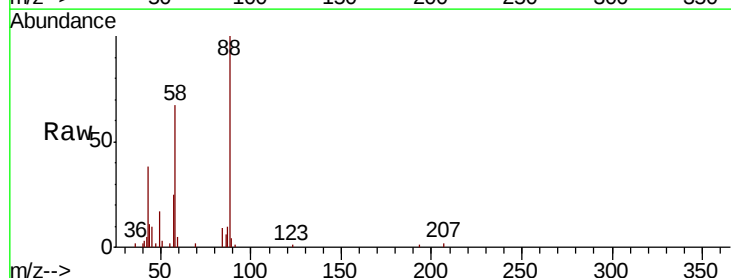
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



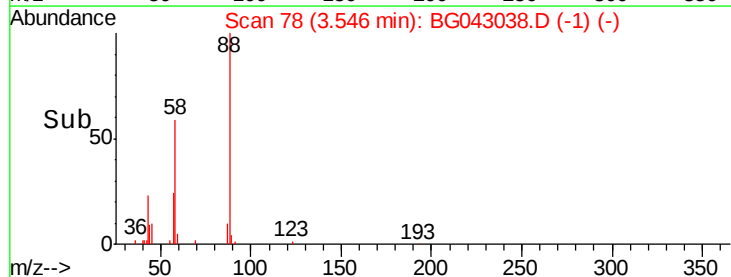
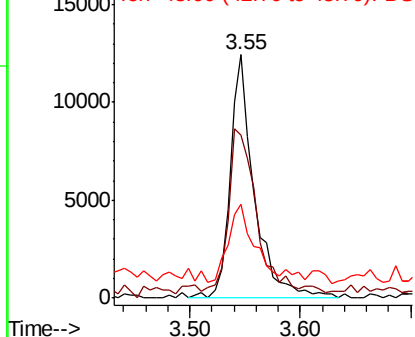
#2

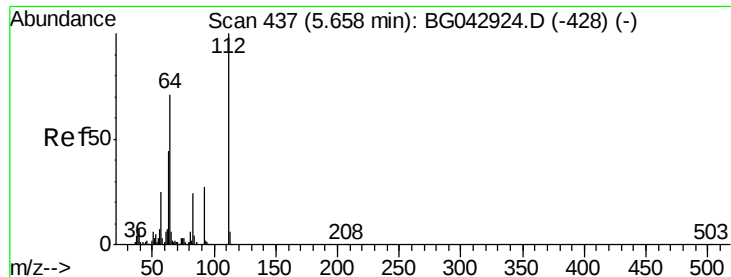
1,4-Dioxane  
Concen: 10.979 ng  
RT: 3.55 min Scan# 78  
Delta R.T. -0.01 min  
Lab File: BG043038.D  
Acq: 4 Oct 2019 21:28

Tgt Ion: 88 Resp: 18989  
Ion Ratio Lower Upper  
88 100  
58 77.2 74.3 111.5  
43 33.8 29.8 44.8



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: 73.054 ng

RT: 5.64 min Scan# 435

Delta R.T. -0.01 min

Lab File: BG043038.D

Acq: 4 Oct 2019 21:28

Instrument :

BNA\_G

ClientSampleId :

MW-103I

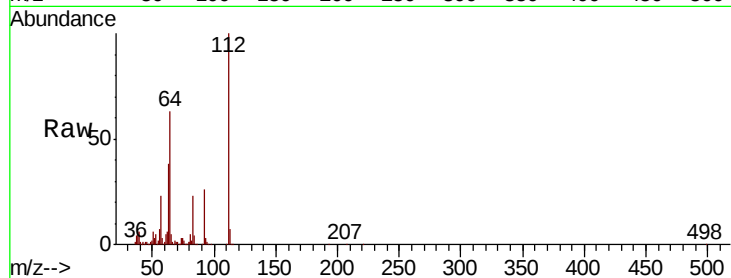
Tot Ion:112 Resp: 303061

Ion Ratio Lower Upper

112 100

64 62.7 56.6 84.8

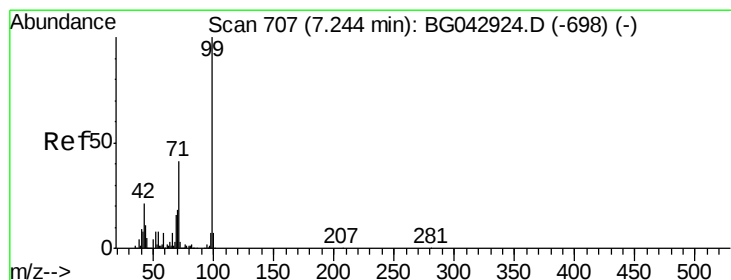
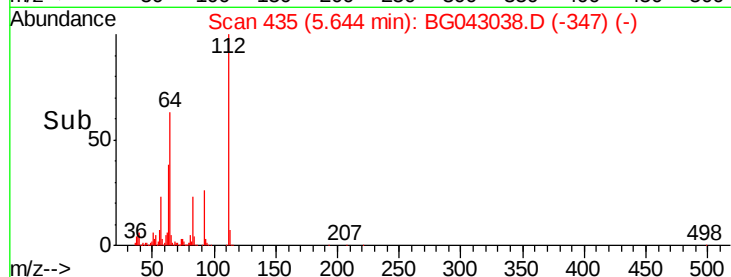
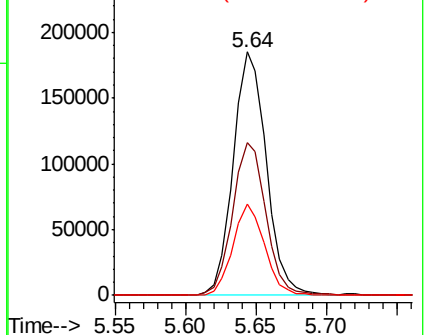
63 37.5 35.1 52.7



Abundance Ion 112.00 (111.70 to 112.70): B

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC



#7

Phenol-d6

Concen: 45.673 ng

RT: 7.23 min Scan# 705

Delta R.T. -0.01 min

Lab File: BG043038.D

Acq: 4 Oct 2019 21:28

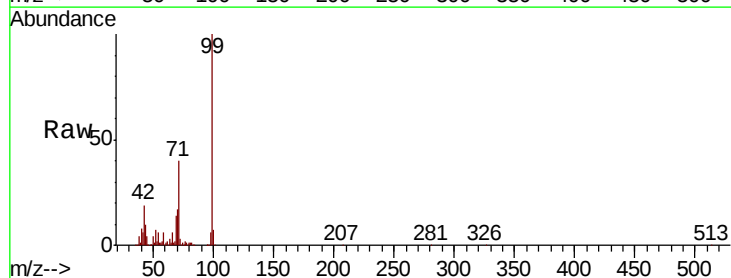
Tgt Ion: 99 Resp: 272852

Ion Ratio Lower Upper

99 100

42 18.6 17.2 25.8

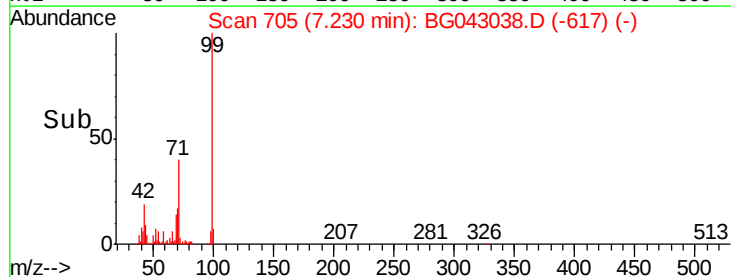
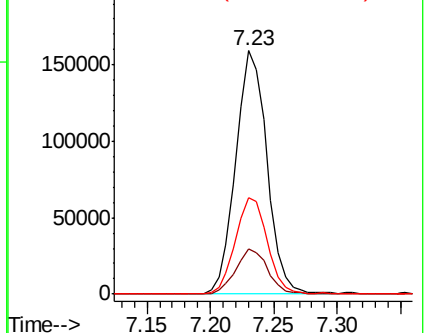
71 39.7 33.1 49.7

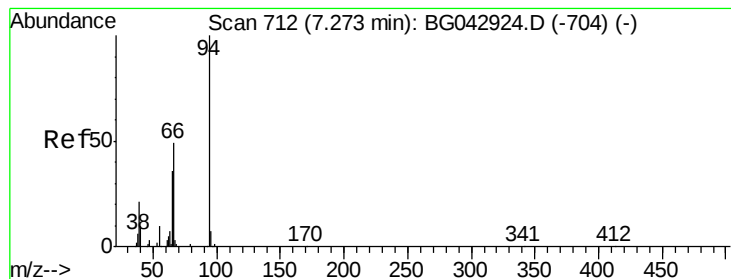


Abundance Ion 99.00 (98.70 to 99.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 71.00 (70.70 to 71.70): BGC





#10

Phenol

Concen: 6.900 ng

RT: 7.26 min Scan# 710

Delta R.T. -0.01 min

Lab File: BG043038.D

Acq: 4 Oct 2019 21:28

Instrument :

BNA\_G

ClientSampled :

MW-103I

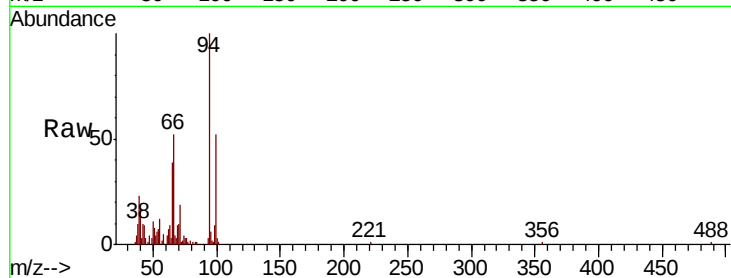
Tot Ion: 94 Resp: 37819

Ion Ratio Lower Upper

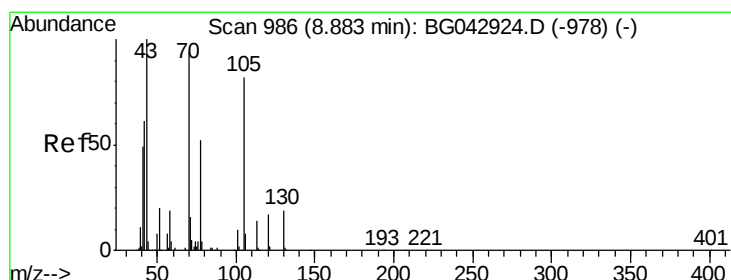
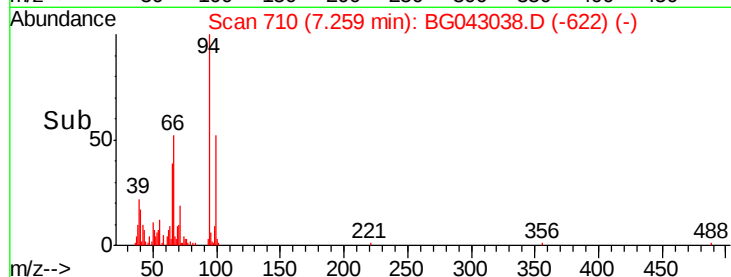
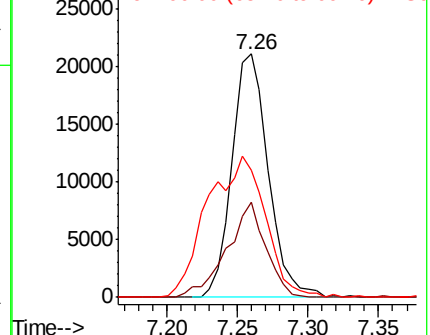
94 100

65 38.8 16.6 56.6

66 52.1 32.4 72.4



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: 15.031 ng

RT: 9.22 min Scan# 1044

Delta R.T. 0.34 min

Lab File: BG043038.D

Acq: 4 Oct 2019 21:28

Tgt Ion: 70 Resp: 58964

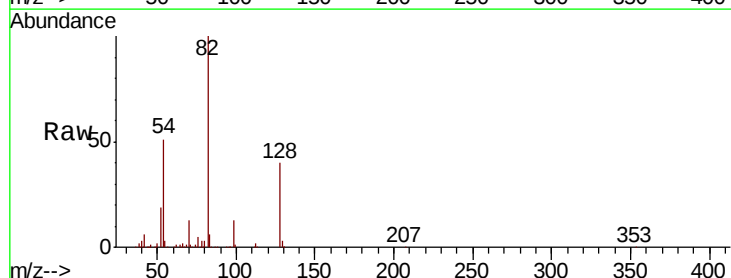
Ion Ratio Lower Upper

70 100

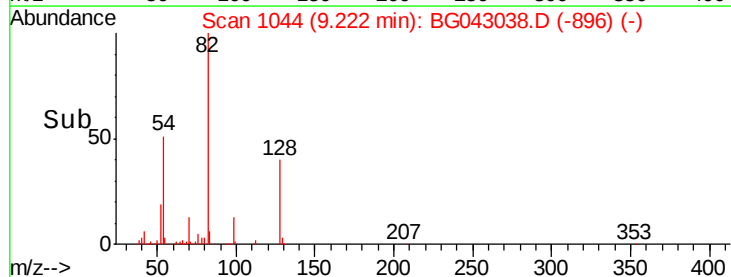
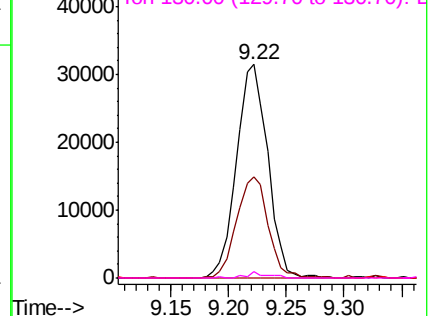
42 47.1 52.6 79.0#

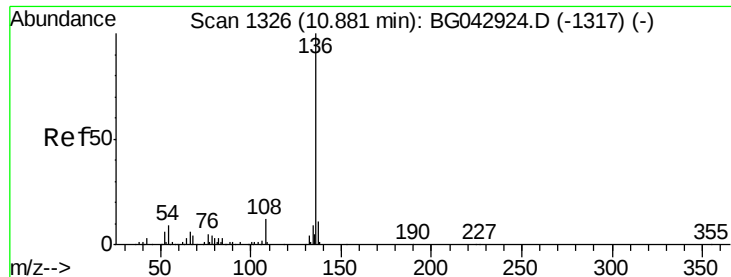
101 0.0 8.7 13.1#

130 2.9 15.8 23.8#



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# 1323

Delta R.T. -0.02 min

Lab File: BG043038.D

Acq: 4 Oct 2019 21:28

Instrument :

BNA\_G

ClientSampleId :

MW-103I

Tot Ion:136 Resp: 285954

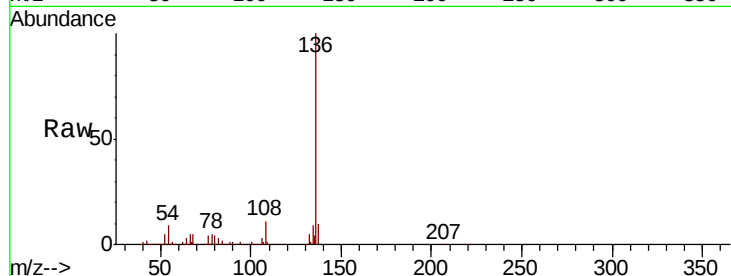
Ion Ratio Lower Upper

136 100

137 10.0 8.5 12.7

54 8.7 7.4 11.2

68 4.6 3.6 5.4

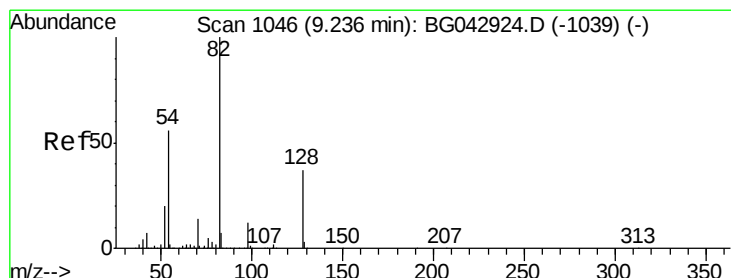
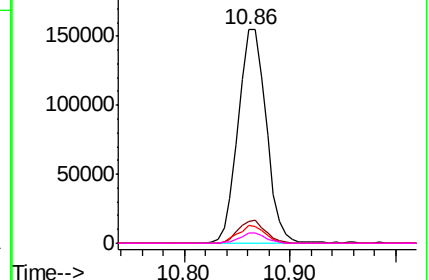
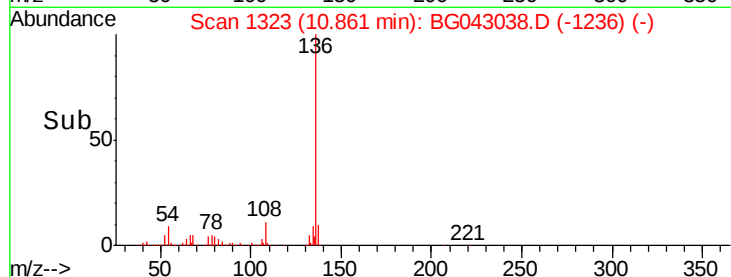


Abundance Ion 136.00 (135.70 to 136.70): E

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: 72.248 ng

RT: 9.22 min Scan# 1044

Delta R.T. -0.01 min

Lab File: BG043038.D

Acq: 4 Oct 2019 21:28

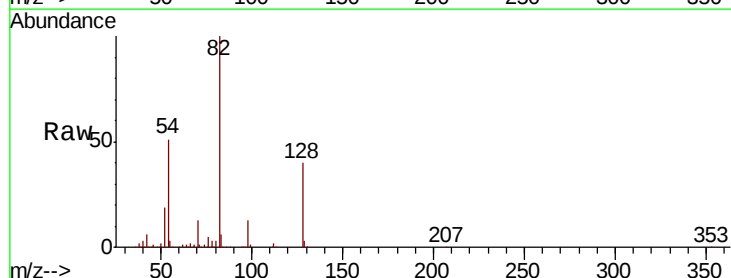
Tgt Ion: 82 Resp: 425047

Ion Ratio Lower Upper

82 100

128 39.7 29.5 44.3

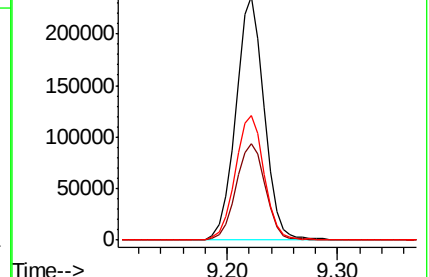
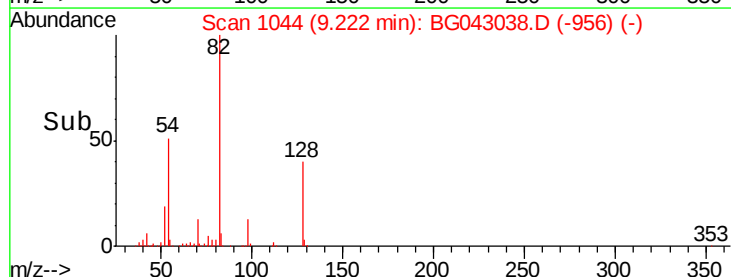
54 51.2 44.6 67.0

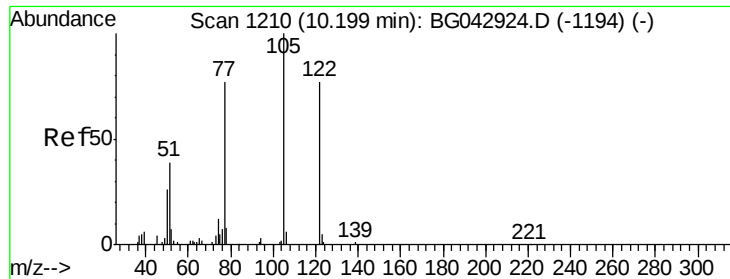


Abundance Ion 82.00 (81.70 to 82.70): BGC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BGC

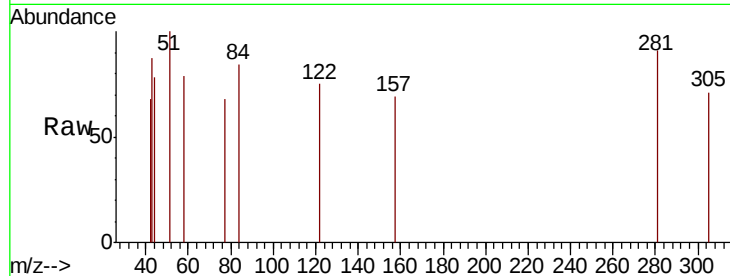




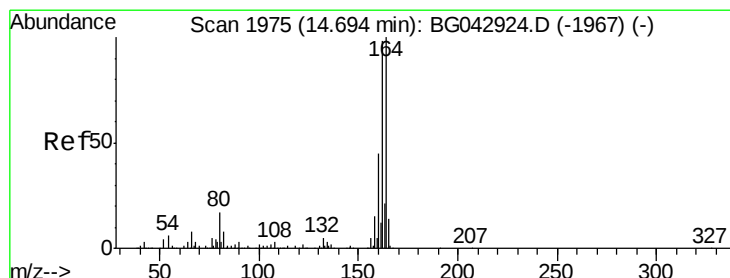
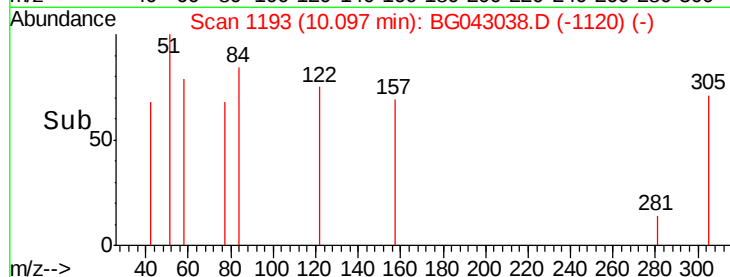
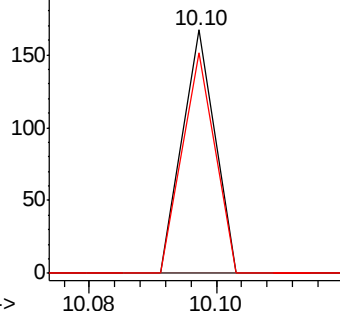
#32  
Benzoic acid  
Concen: 2.821 ng  
RT: 10.10 min Scan# 1193  
Delta R.T. -0.10 min  
Lab File: BG043038.D  
Acq: 4 Oct 2019 21:28

Instrument :  
BNA\_G  
ClientSampleId :  
MW-103I

Tot Ion:122 Resp: 59  
Ion Ratio Lower Upper  
122 100  
105 0.0 107.5 147.5#  
77 90.4 79.8 119.8

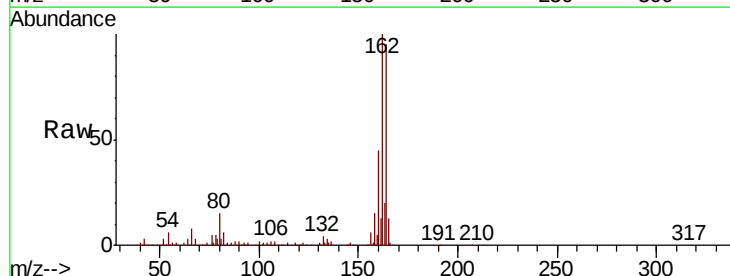


Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): E

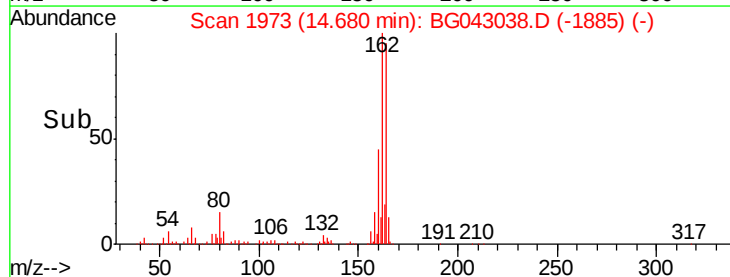
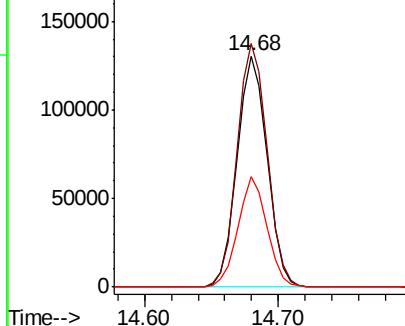


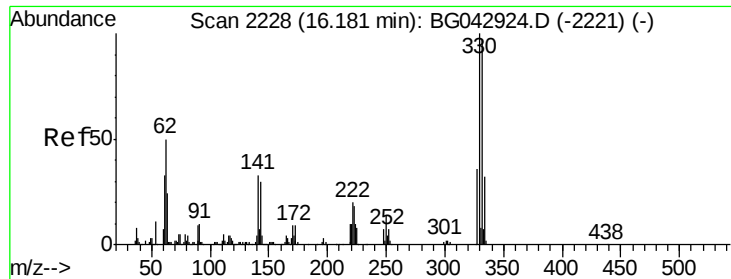
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.68 min Scan# 1973  
Delta R.T. -0.01 min  
Lab File: BG043038.D  
Acq: 4 Oct 2019 21:28

Tgt Ion:164 Resp: 203015  
Ion Ratio Lower Upper  
164 100  
162 105.2 78.5 117.7  
160 47.5 35.9 53.9



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

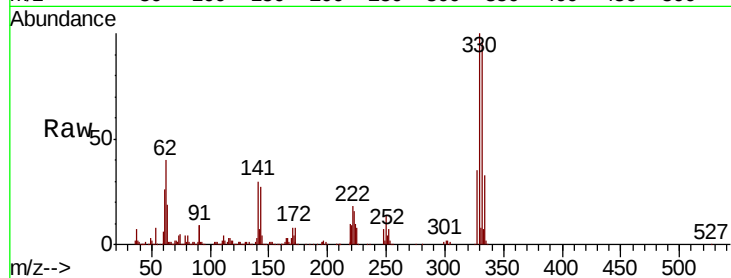




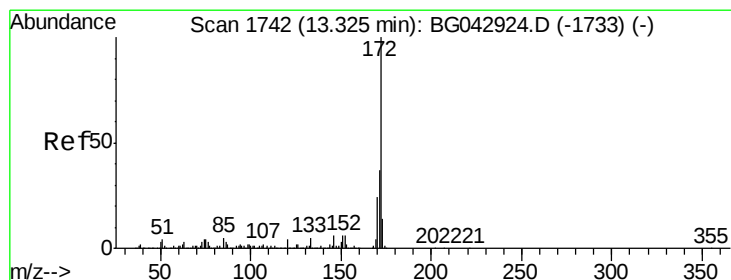
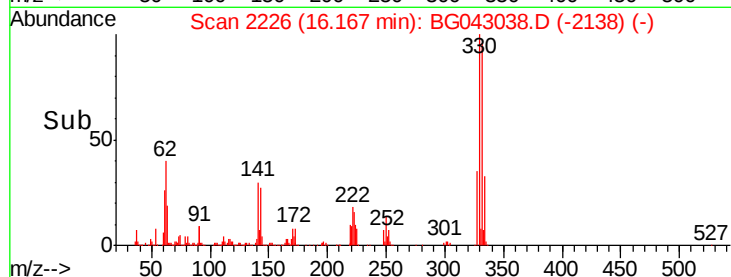
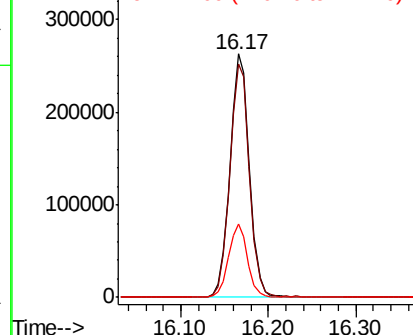
#42  
 2,4,6-Tribromophenol  
 Concen: 115.205 ng  
 RT: 16.17 min Scan# 2226  
 Delta R.T. -0.01 min  
 Lab File: BG043038.D  
 Acq: 4 Oct 2019 21:28

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MW-103I

Tot Ion:330 Resp: 402179  
 Ion Ratio Lower Upper  
 330 100  
 332 95.8 78.2 117.2  
 141 29.2 26.0 39.0

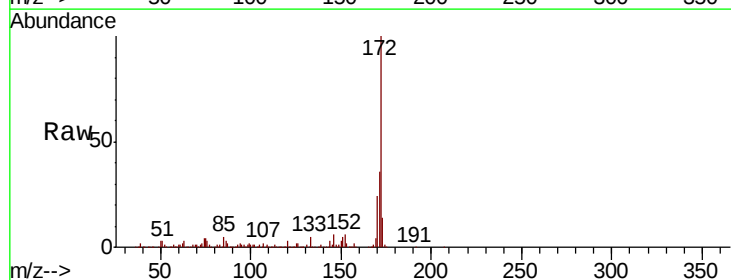


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

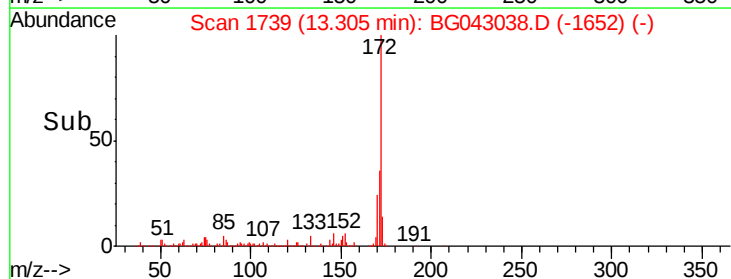
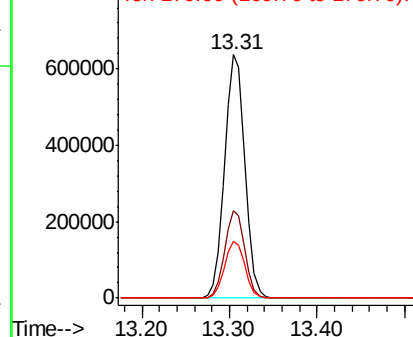


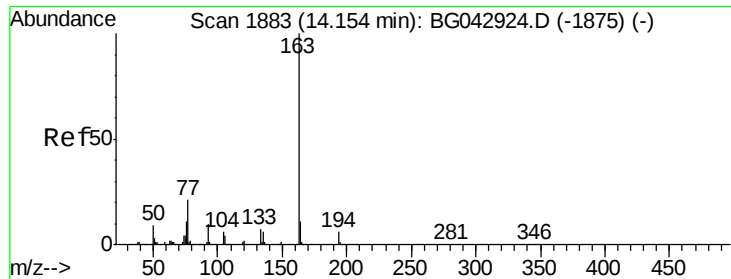
#45  
 2-Fluorobiphenyl  
 Concen: 73.244 ng  
 RT: 13.31 min Scan# 1739  
 Delta R.T. -0.02 min  
 Lab File: BG043038.D  
 Acq: 4 Oct 2019 21:28

Tgt Ion:172 Resp: 1025703  
 Ion Ratio Lower Upper  
 172 100  
 171 35.7 29.6 44.4  
 170 23.5 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

Dimethylphthalate

Concen: 18.262 ng

RT: 14.13 min Scan# 1879

Delta R.T. -0.03 min

Lab File: BG043038.D

Acq: 4 Oct 2019 21:28

Instrument :

BNA\_G

ClientSampleId :

MW-103I

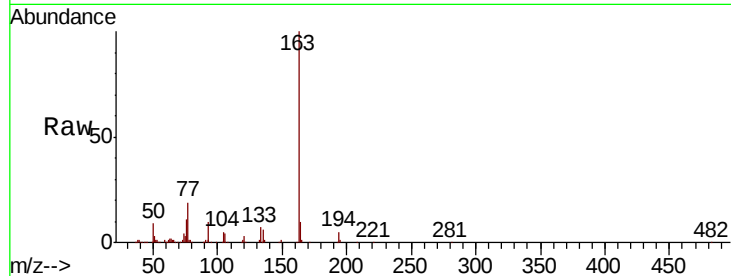
Tot Ion:163 Resp: 277788

Ion Ratio Lower Upper

163 100

194 5.0 4.4 6.6

164 10.0 8.6 12.8

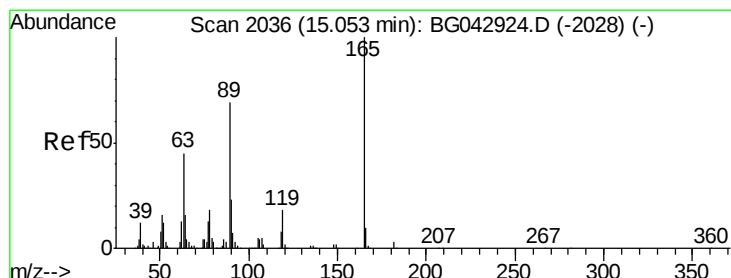
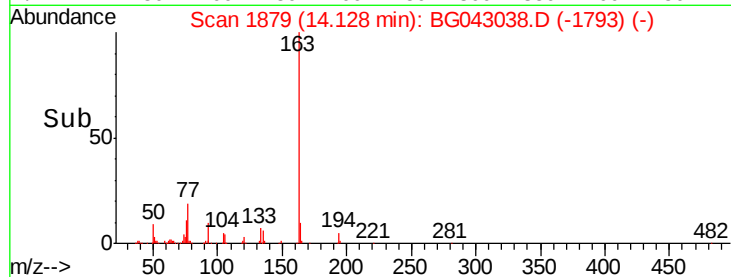
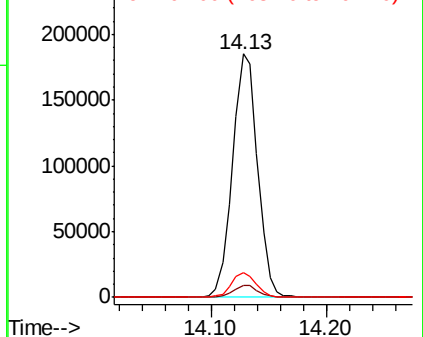


Abundance

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: 5.669 ng

RT: 14.68 min Scan# 1973

Delta R.T. -0.37 min

Lab File: BG043038.D

Acq: 4 Oct 2019 21:28

Tgt Ion:165 Resp: 26890

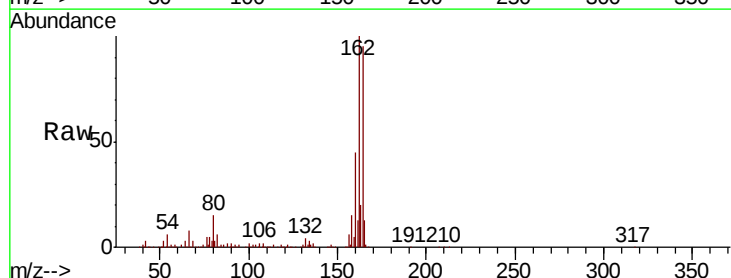
Ion Ratio Lower Upper

165 100

63 0.0 36.5 54.7#

89 1.6 55.5 83.3#

182 0.0 2.4 3.6#



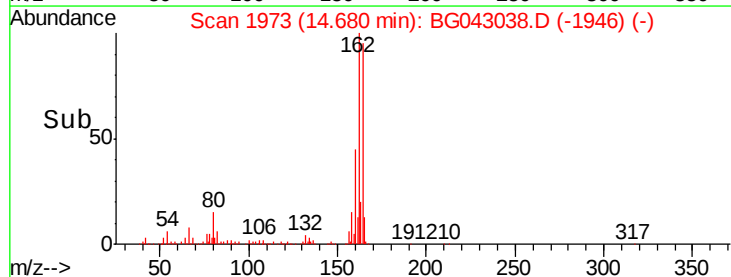
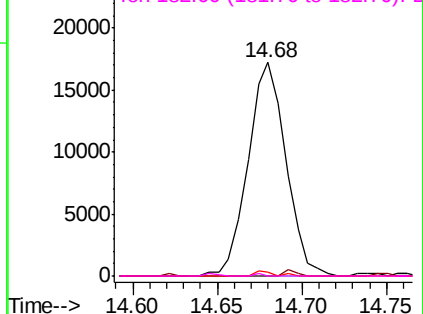
Abundance

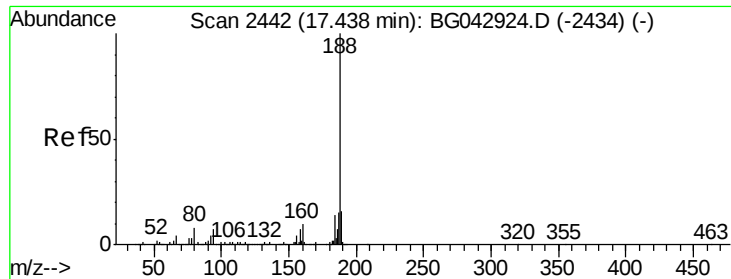
Ion 165.00 (164.70 to 165.70): E

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: 17.42 min Scan# 2440

Delta R.T. -0.01 min

Lab File: BG043038.D

Acq: 4 Oct 2019 21:28

Instrument :

BNA\_G

ClientSampleId :

MW-103I

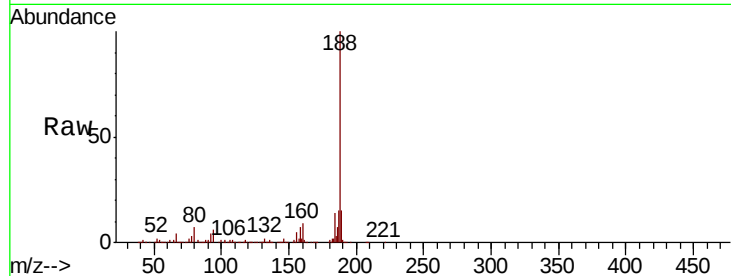
Tot Ion:188 Resp: 480380

Ion Ratio Lower Upper

188 100

94 6.3 5.7 8.5

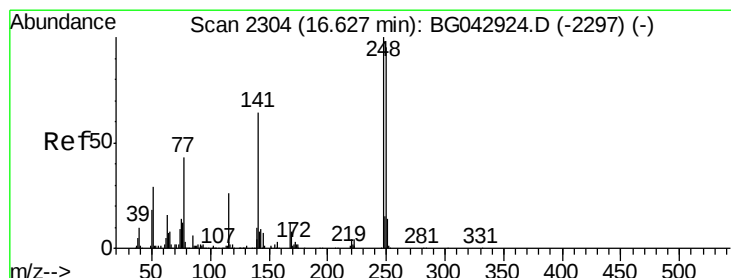
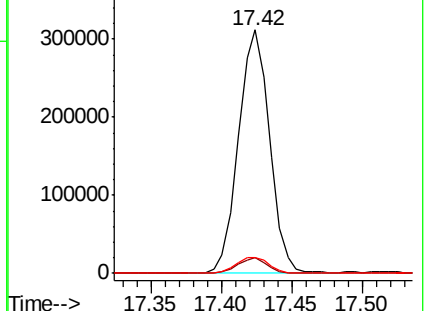
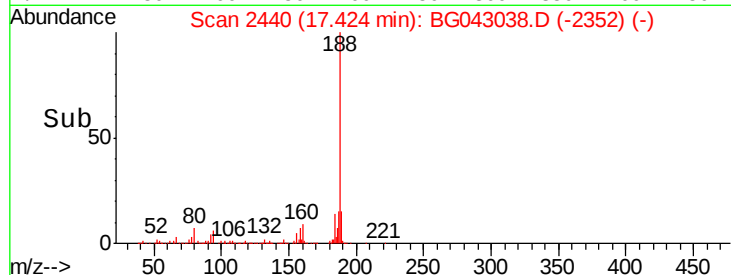
80 6.7 6.5 9.7



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG

Ion 80.00 (79.70 to 80.70): BG



#67

4-Bromophenyl-phenylether

Concen: 4.700 ng

RT: 16.17 min Scan# 2226

Delta R.T. -0.46 min

Lab File: BG043038.D

Acq: 4 Oct 2019 21:28

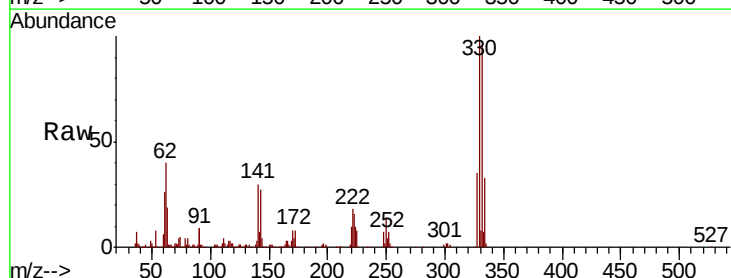
Tgt Ion:248 Resp: 28337

Ion Ratio Lower Upper

248 100

250 190.5 75.8 113.8#

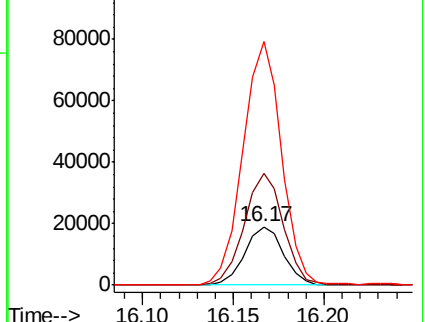
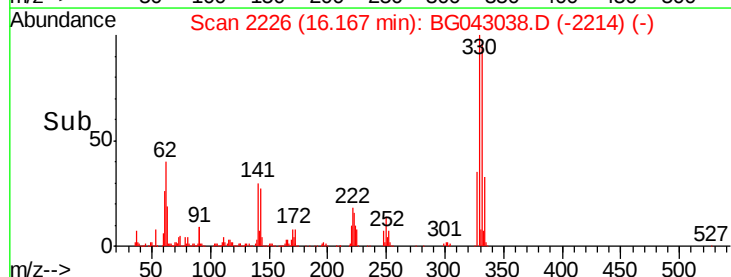
141 416.6 51.1 76.7#

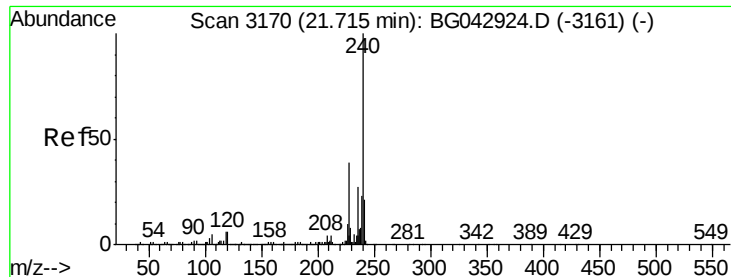


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

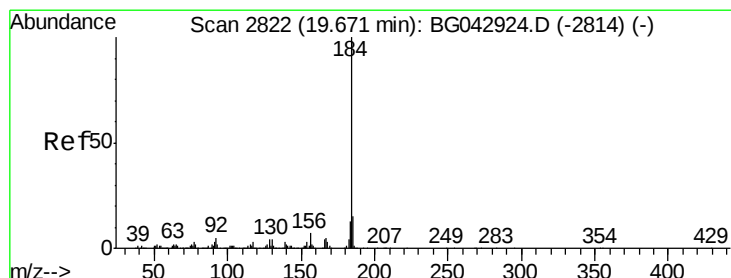
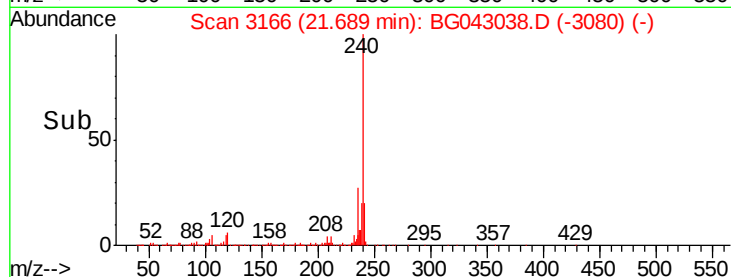
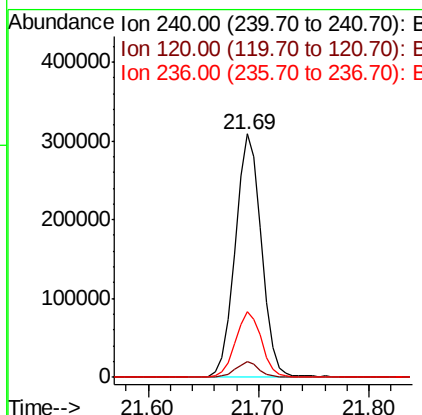
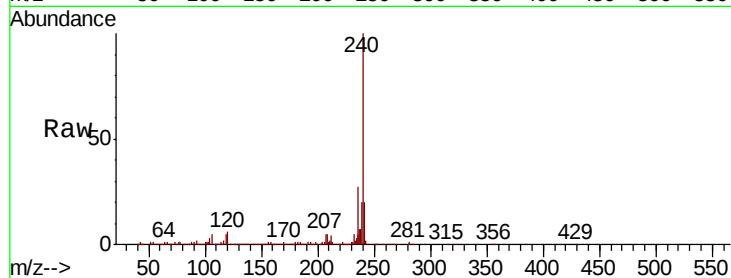




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.69 min Scan# 3166  
Delta R.T. -0.03 min  
Lab File: BG043038.D  
Acq: 4 Oct 2019 21:28

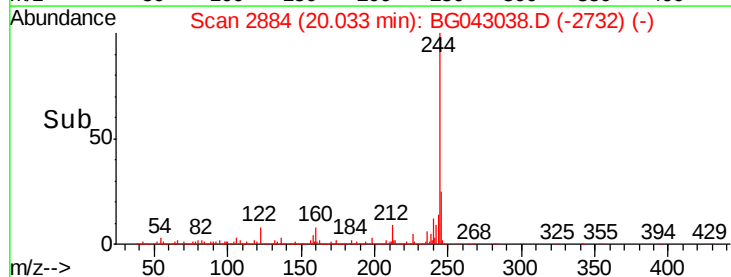
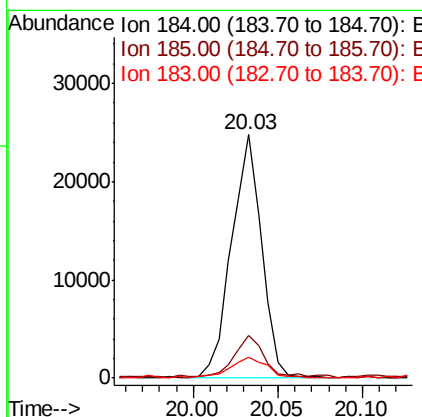
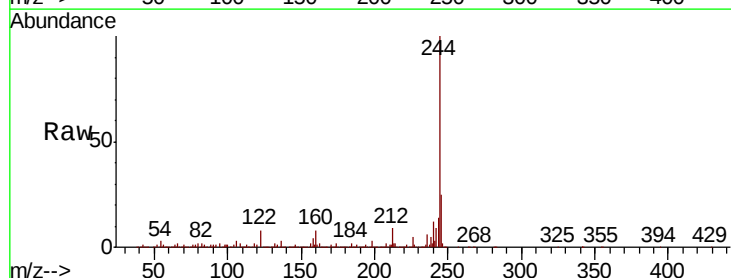
Instrument :  
BNA\_G  
ClientSampleId :  
MW-103I

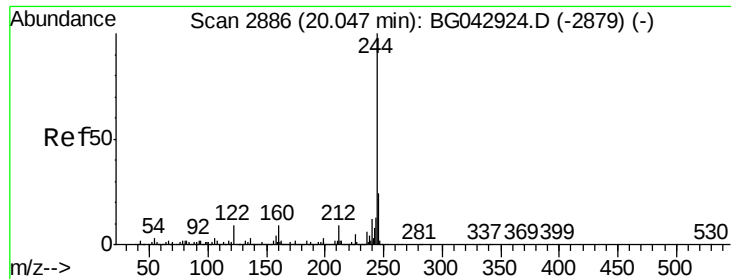
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 6.3   | 4.8   | 7.2   |
| 236     | 26.8  | 21.4  | 32.0  |



#77  
Benzidine  
Concen: 2.390 ng  
RT: 20.03 min Scan# 2884  
Delta R.T. 0.36 min  
Lab File: BG043038.D  
Acq: 4 Oct 2019 21:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 184     | 100   |       |       |
| 185     | 17.8  | 11.8  | 17.8  |
| 183     | 8.7   | 10.1  | 15.1# |





#79

Terphenyl-d14

Concen: 78.207 ng

RT: 20.03 min Scan# 2884

Delta R.T. -0.01 min

Lab File: BG043038.D

Acq: 4 Oct 2019 21:28

Instrument :

BNA\_G

ClientSampleId :

MW-103I

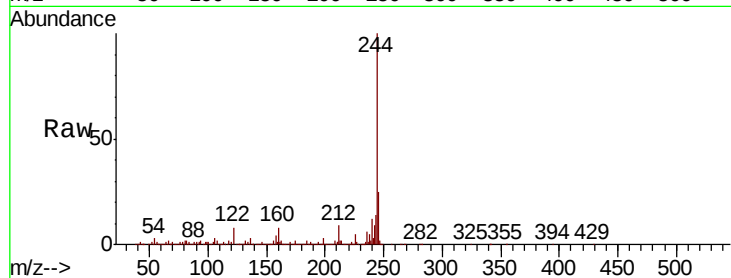
Tot Ion:244 Resp: 1886053

Ion Ratio Lower Upper

244 100

212 9.0 7.4 11.0

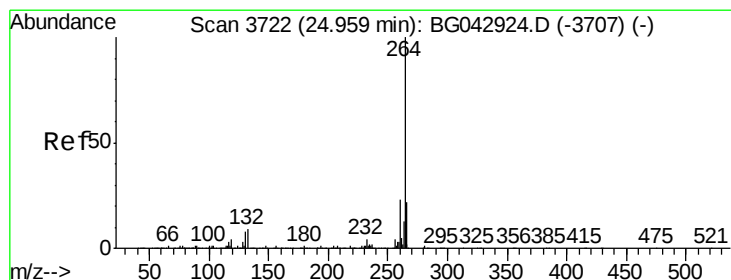
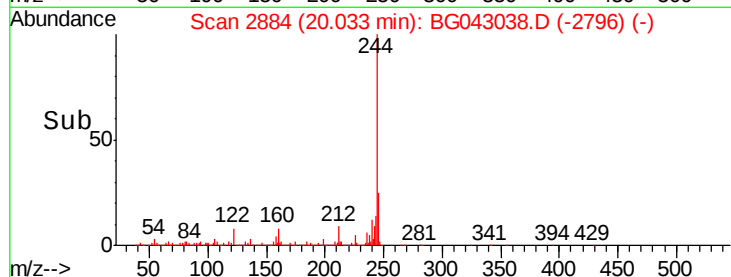
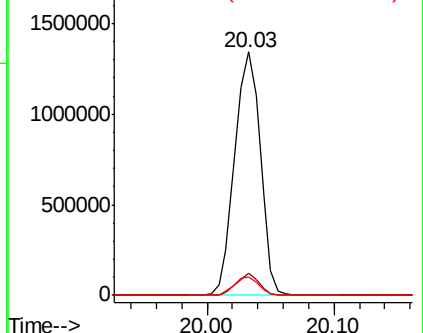
122 7.6 7.0 10.4



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 24.91 min Scan# 3714

Delta R.T. -0.05 min

Lab File: BG043038.D

Acq: 4 Oct 2019 21:28

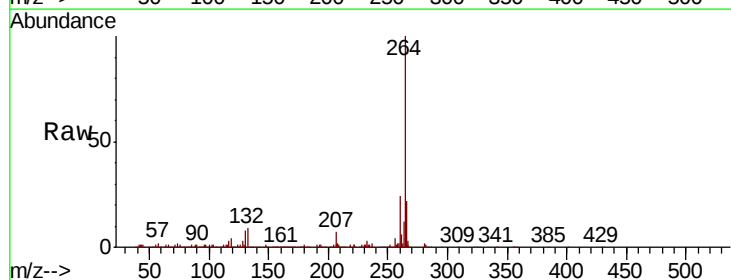
Tgt Ion:264 Resp: 601085

Ion Ratio Lower Upper

264 100

260 23.9 18.7 28.1

265 21.9 17.7 26.5



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

