

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG100219\  
 Data File : BG042993.D  
 Acq On : 2 Oct 2019 20:23  
 Operator : JU  
 Sample : K5154-06  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MW-107

Quant Time: Oct 03 04:27:59 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

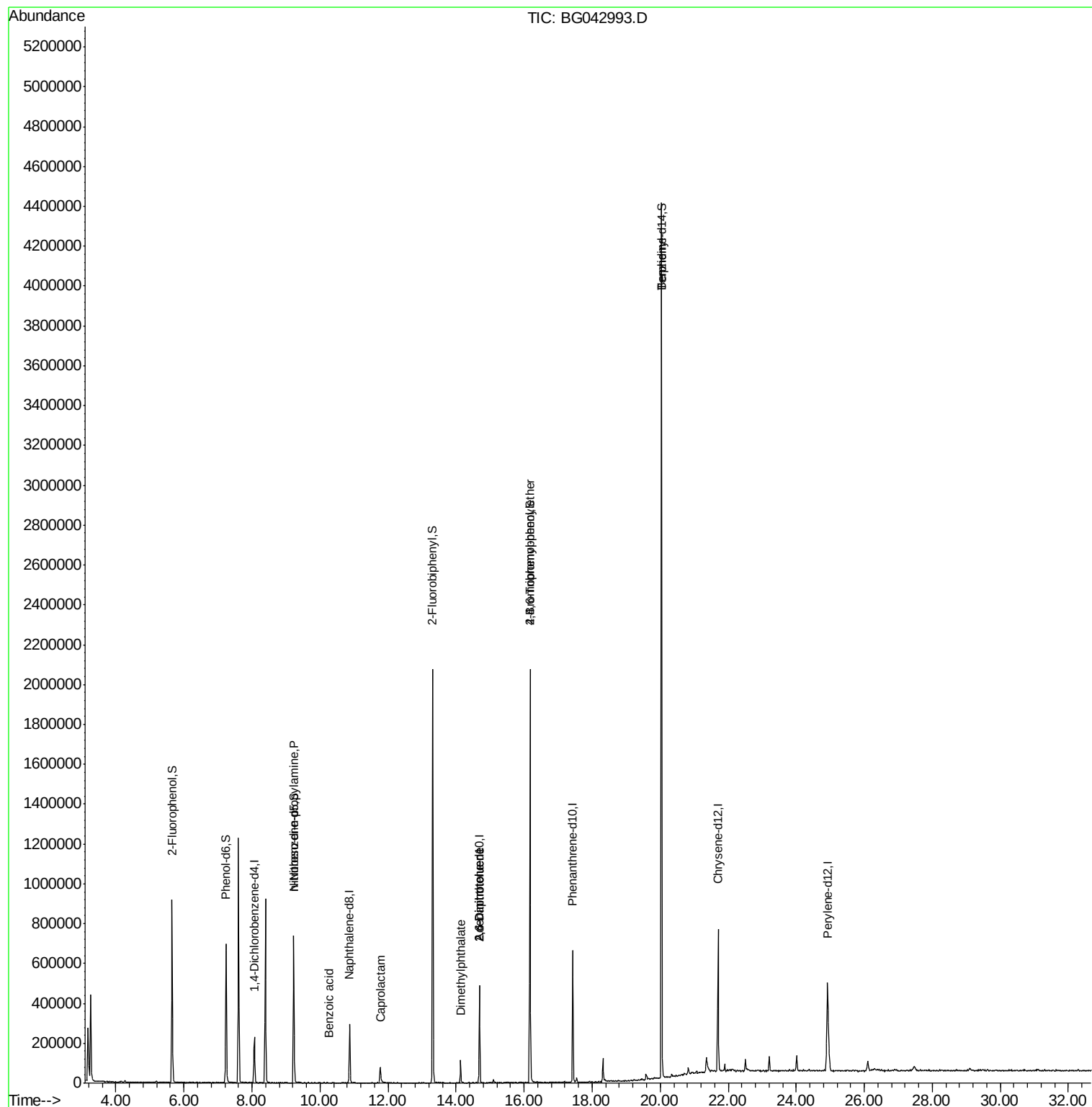
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.07  | 152  | 68287    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.87 | 136  | 247781   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.69 | 164  | 177051   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.43 | 188  | 420873   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.70 | 240  | 458922   | 20.00  | ng    | -0.02    |
| 87) Perylene-d12               | 24.93 | 264  | 529338   | 20.00  | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.65  | 112  | 384650   | 100.52 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.24  | 99   | 392490   | 71.23  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.23  | 82   | 453213   | 88.90  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.17 | 330  | 429120   | 140.95 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.31 | 172  | 1128218  | 92.38  | ng    | -0.01    |
| 79) Terphenyl-d14              | 20.04 | 244  | 2102138  | 97.61  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.23  | 70   | 63660    | 17.594 | ng    | # 77     |
| 32) Benzoic acid               | 10.27 | 122  | 59       | 2.824  | ng    | # 1      |
| 35) Caprolactam                | 11.77 | 113  | 16696    | 11.975 | ng    | # 85     |
| 50) Dimethylphthalate          | 14.13 | 163  | 72224    | 5.444  | ng    | # 99     |
| 51) 2,6-Dinitrotoluene         | 14.69 | 165  | 24014    | 8.500  | ng    | # 20     |
| 57) 2,4-Dinitrotoluene         | 14.69 | 165  | 24014    | 5.805  | ng    | # 24     |
| 67) 4-Bromophenyl-phenylether  | 16.17 | 248  | 29662    | 5.615  | ng    | # 1      |
| 77) Benzidine                  | 20.04 | 184  | 35203    | 3.064  | ng    | # 91     |

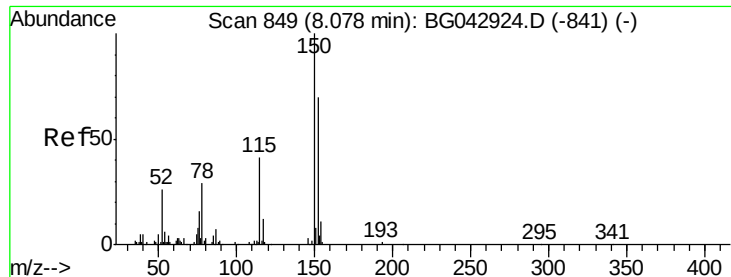
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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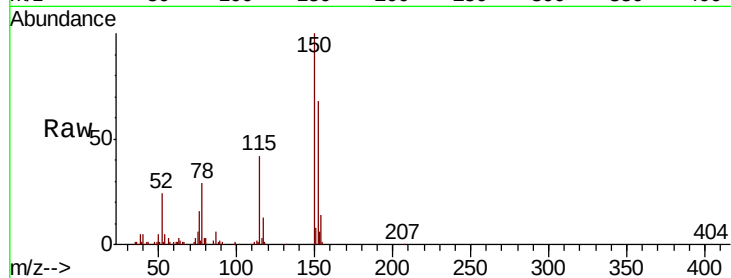


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.07 min Scan# 848  
Delta R.T. -0.01 min  
Lab File: BG042993.D  
Acq: 2 Oct 2019 20:23

Instrument :  
BNA\_G  
ClientSampleId :  
MW-107

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 148.0 | 115.0 | 172.4 |
| 115     | 62.0  | 47.0  | 70.6  |

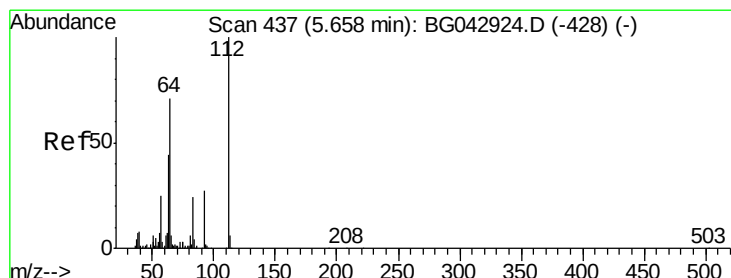
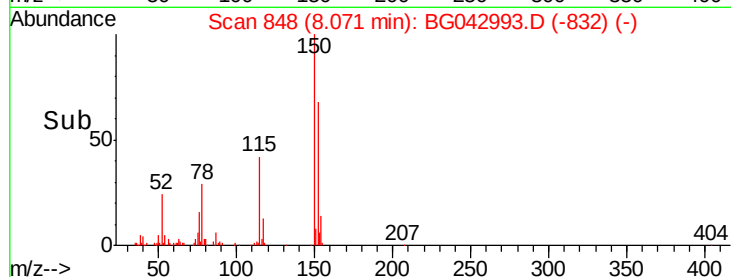
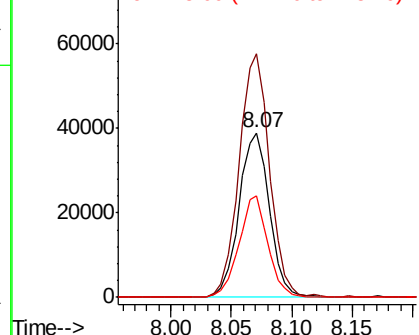


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

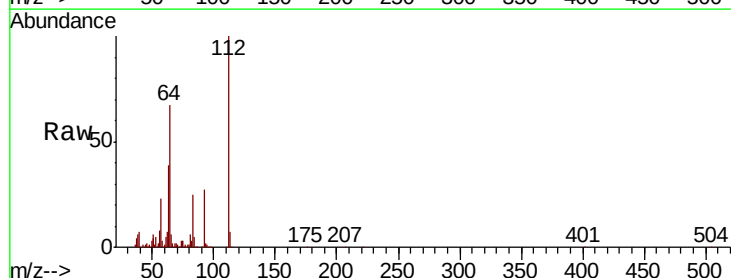
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 100.525 ng  
RT: 5.65 min Scan# 436  
Delta R.T. -0.01 min  
Lab File: BG042993.D  
Acq: 2 Oct 2019 20:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 67.4  | 56.6  | 84.8  |
| 63      | 38.8  | 35.1  | 52.7  |

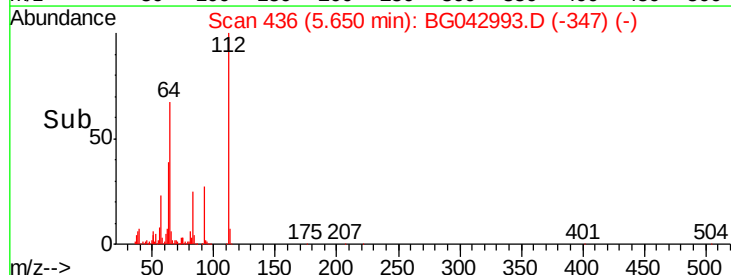
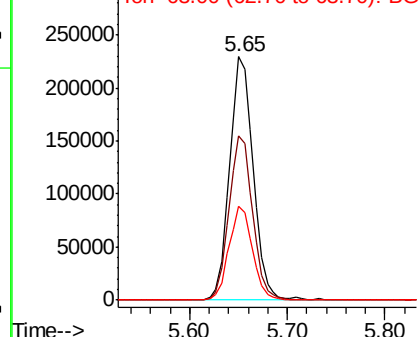


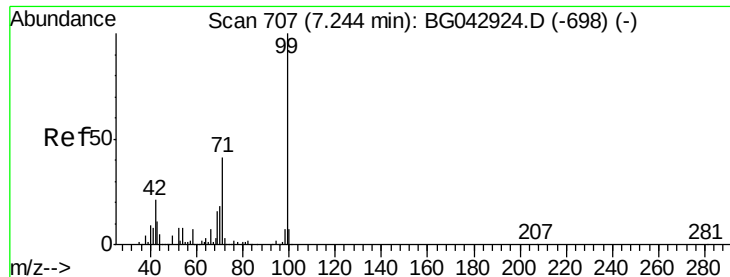
Abundance

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: 71.229 ng

RT: 7.24 min Scan# 706

Delta R.T. -0.01 min

Lab File: BG042993.D

Acq: 2 Oct 2019 20:23

Instrument :

BNA\_G

ClientSampleId :

MW-107

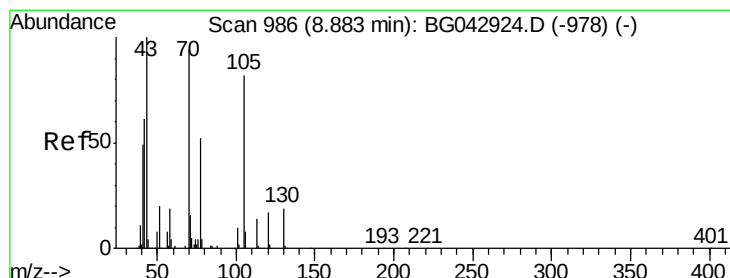
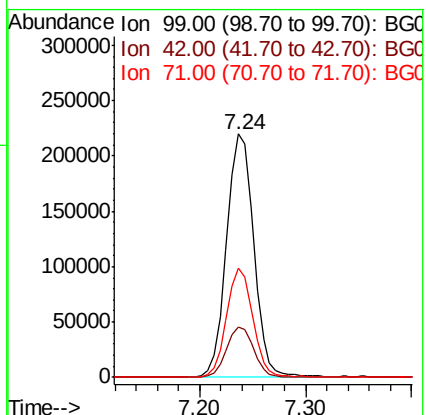
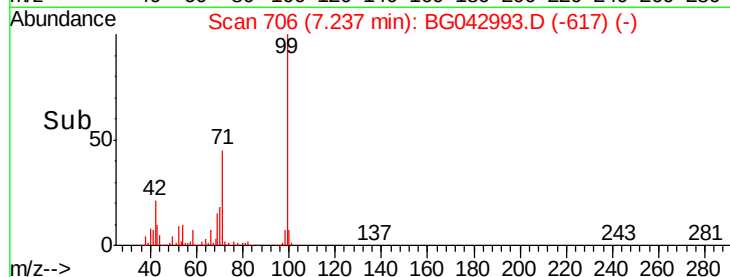
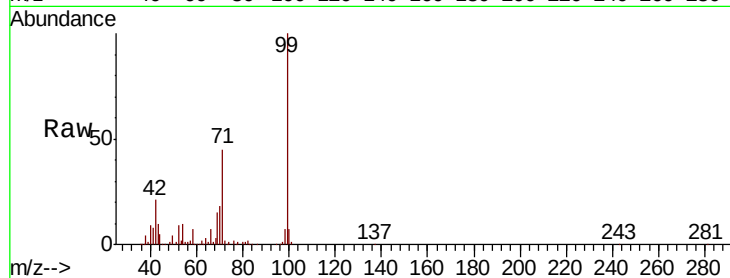
Tot Ion: 99 Resp: 392490

Ion Ratio Lower Upper

99 100

42 20.7 17.2 25.8

71 45.0 33.1 49.7



#19

n-Nitroso-di-n-propylamine

Concen: 17.594 ng

RT: 9.23 min Scan# 1045

Delta R.T. 0.35 min

Lab File: BG042993.D

Acq: 2 Oct 2019 20:23

Tgt Ion: 70 Resp: 63660

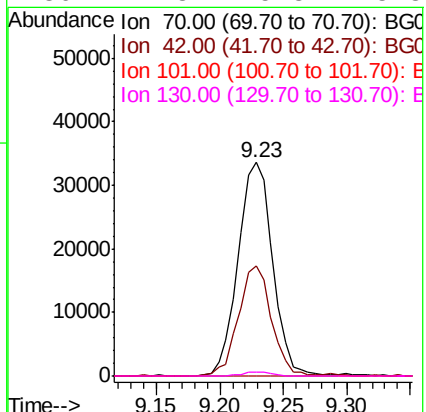
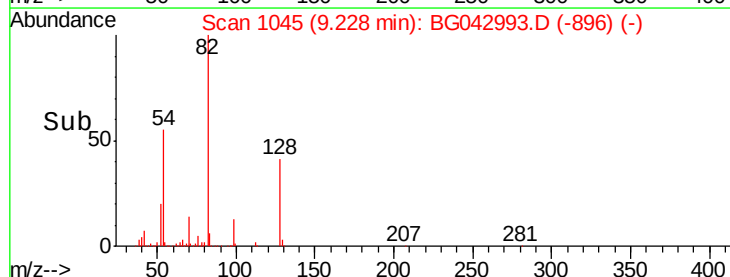
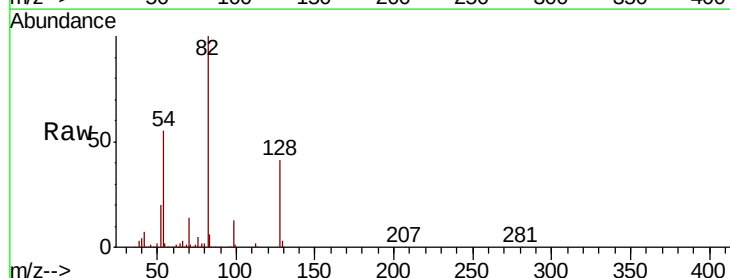
Ion Ratio Lower Upper

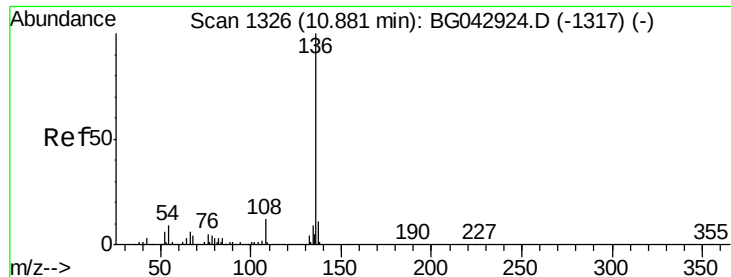
70 100

42 51.8 52.6 79.0#

101 0.0 8.7 13.1#

130 1.8 15.8 23.8#

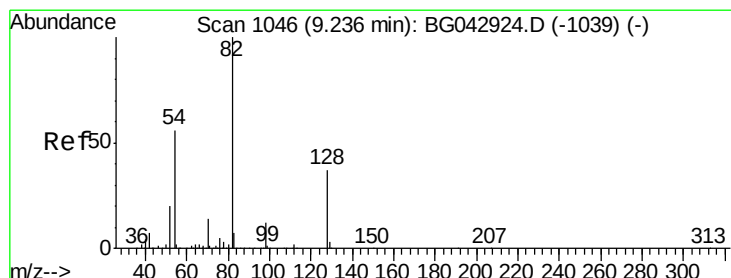
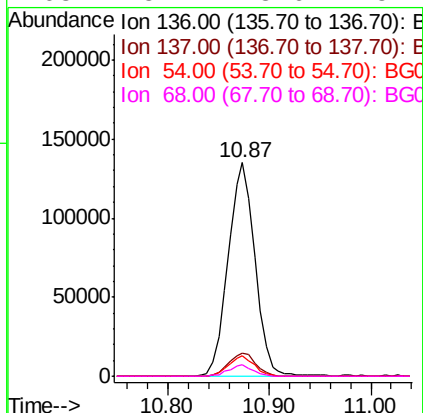
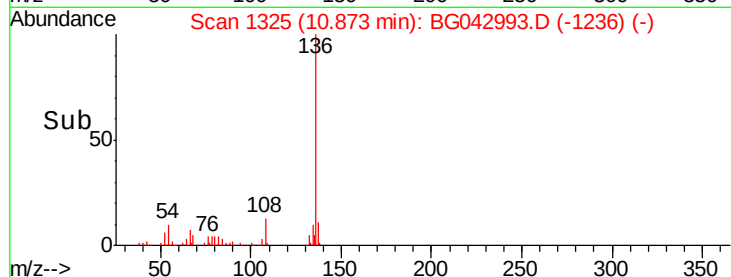
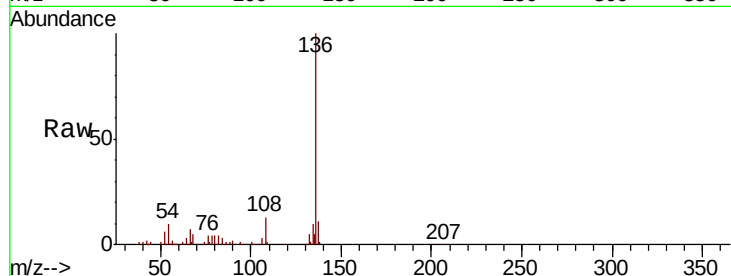




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.87 min Scan# 1325  
Delta R.T. -0.01 min  
Lab File: BG042993.D  
Acq: 2 Oct 2019 20:23

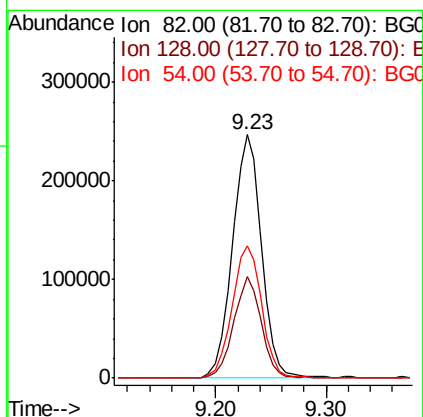
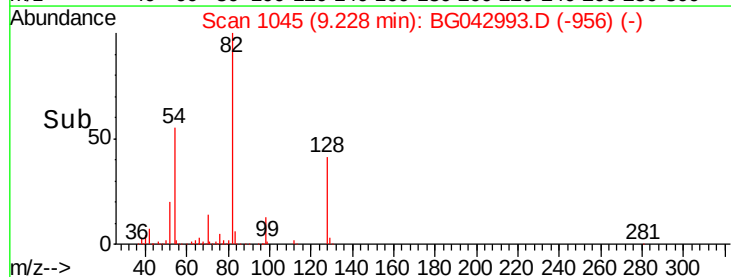
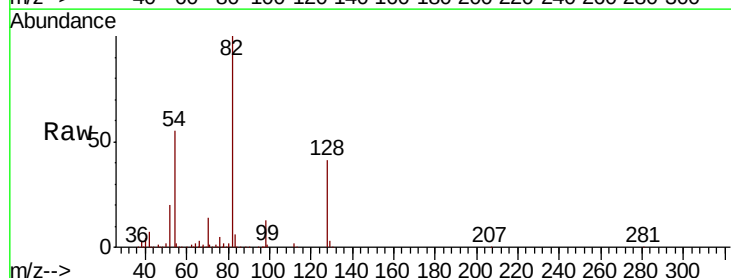
Instrument :  
BNA\_G  
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MW-107

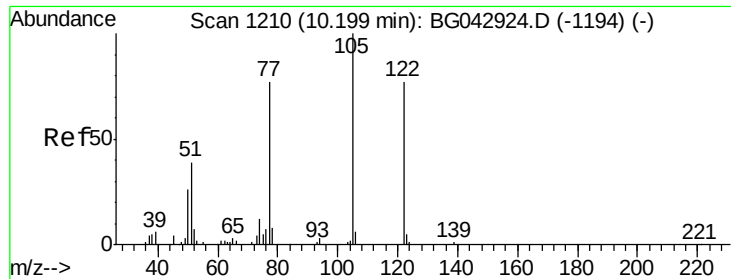
|             |       |        |
|-------------|-------|--------|
| Tot Ion:136 | Resp: | 247781 |
| Ion Ratio   | Lower | Upper  |
| 136 100     |       |        |
| 137 11.1    | 8.5   | 12.7   |
| 54 9.7      | 7.4   | 11.2   |
| 68 5.4      | 3.6   | 5.4    |



#23  
Nitrobenzene-d5  
Concen: 88.903 ng  
RT: 9.23 min Scan# 1045  
Delta R.T. -0.01 min  
Lab File: BG042993.D  
Acq: 2 Oct 2019 20:23

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 82 | Resp: | 453213 |
| Ion | Ratio   | Lower | Upper  |
| 82  | 100     |       |        |
| 128 | 41.5    | 29.5  | 44.3   |
| 54  | 54.5    | 44.6  | 67.0   |

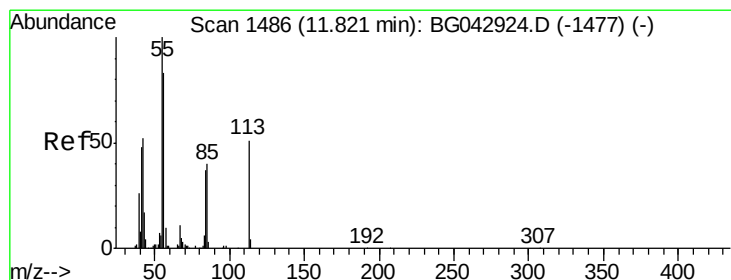
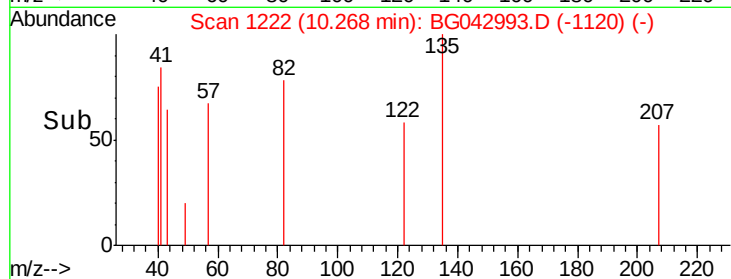
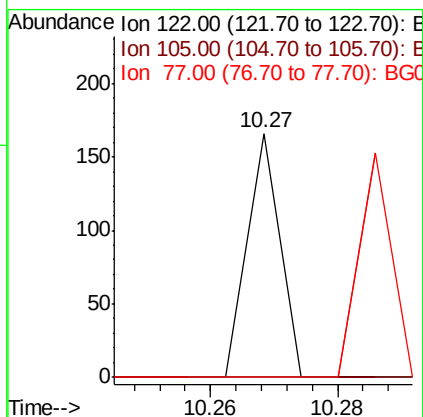
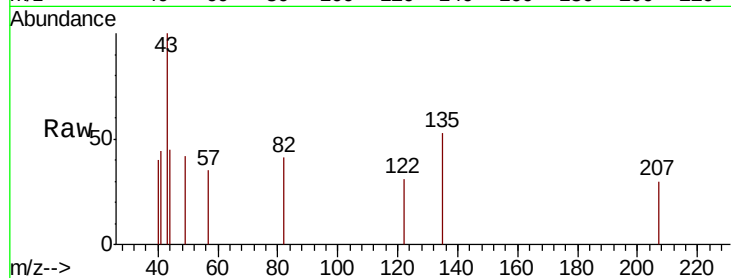




#32  
Benzoic acid  
Concen: 2.824 ng  
RT: 10.27 min Scan# 1222  
Delta R.T. 0.07 min  
Lab File: BG042993.D  
Acq: 2 Oct 2019 20:23

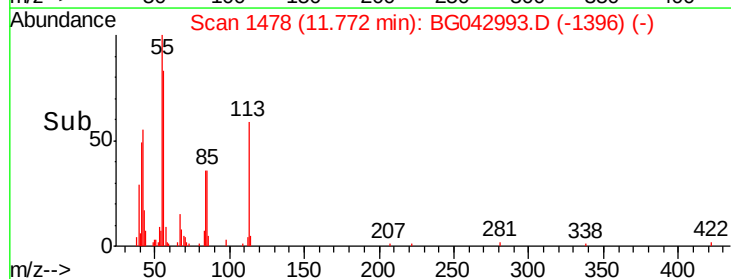
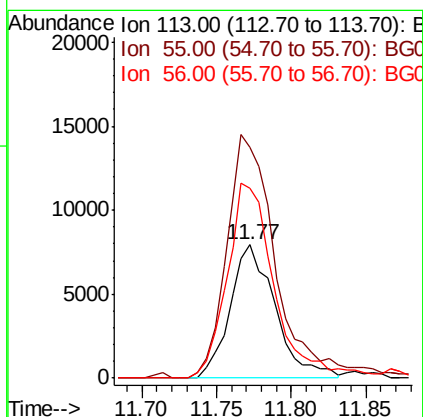
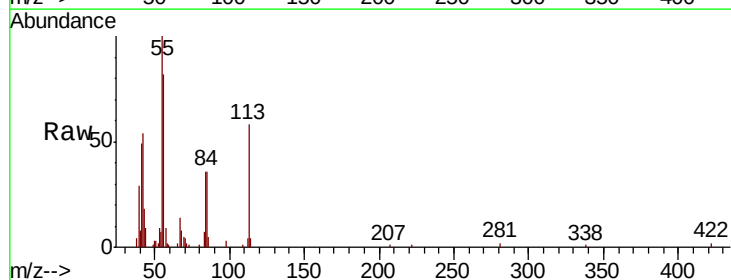
Instrument :  
BNA\_G  
ClientSampleId :  
MW-107

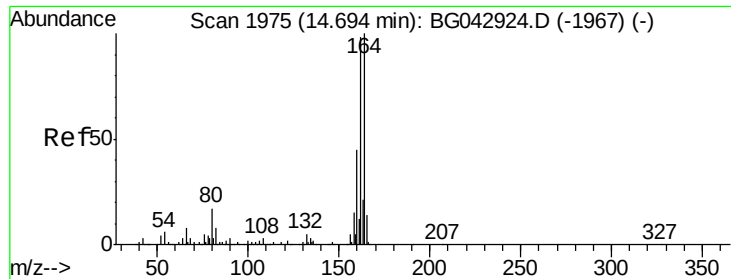
| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 122     | 100   |       |        |
| 105     | 0.0   | 107.5 | 147.5# |
| 77      | 0.0   | 79.8  | 119.8# |



#35  
Caprolactam  
Concen: 11.975 ng  
RT: 11.77 min Scan# 1478  
Delta R.T. -0.05 min  
Lab File: BG042993.D  
Acq: 2 Oct 2019 20:23

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 113     | 100   |       |        |
| 55      | 172.8 | 175.5 | 215.5# |
| 56      | 142.3 | 142.3 | 182.3# |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.69 min Scan# 1974

Delta R.T. -0.01 min

Lab File: BG042993.D

Acq: 2 Oct 2019 20:23

Instrument :

BNA\_G

ClientSampleId :

MW-107

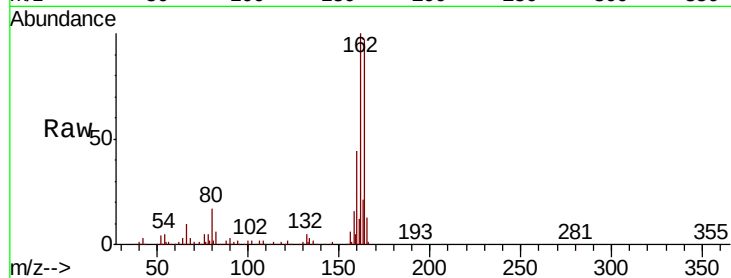
Tot Ion:164 Resp: 177051

Ion Ratio Lower Upper

164 100

162 103.2 78.5 117.7

160 45.5 35.9 53.9

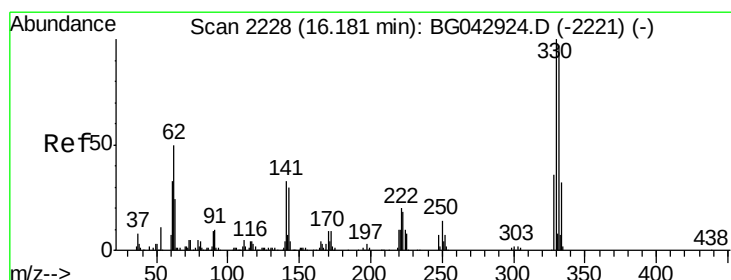
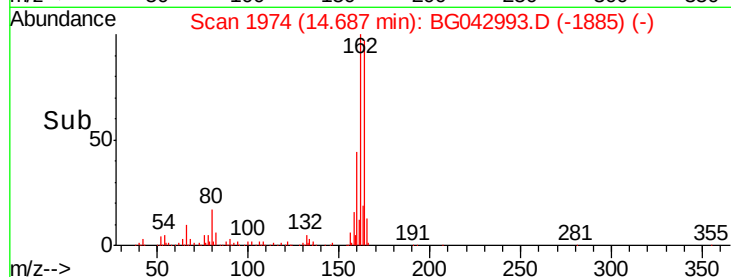
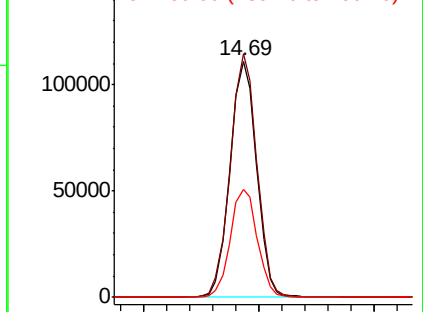


Abundance

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: 140.949 ng

RT: 16.17 min Scan# 2227

Delta R.T. -0.01 min

Lab File: BG042993.D

Acq: 2 Oct 2019 20:23

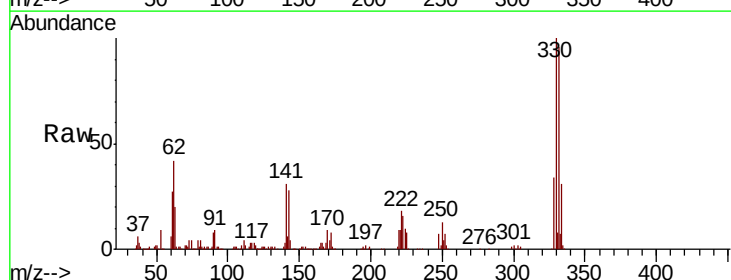
Tgt Ion:330 Resp: 429120

Ion Ratio Lower Upper

330 100

332 96.2 78.2 117.2

141 31.1 26.0 39.0

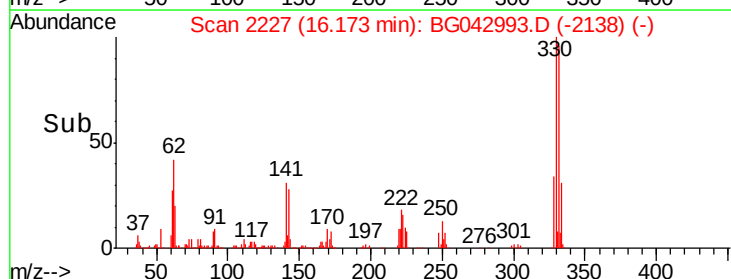
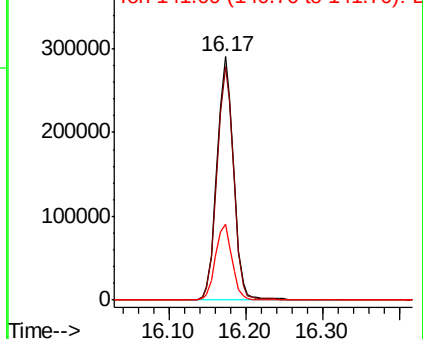


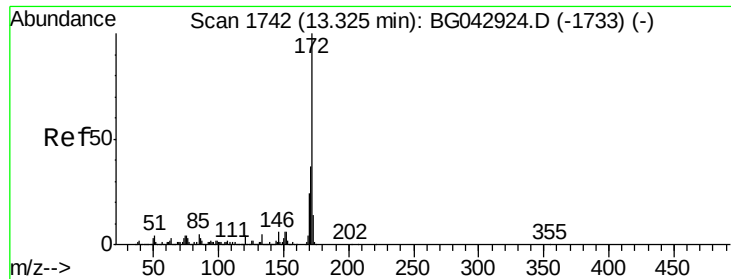
Abundance

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

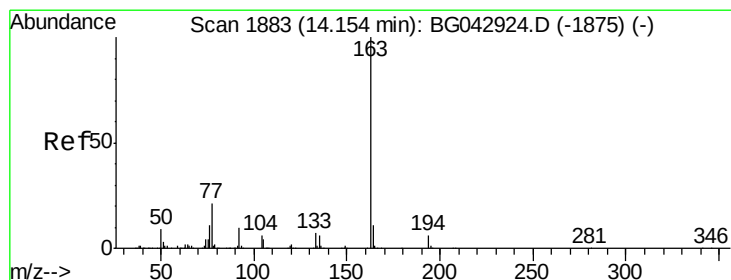
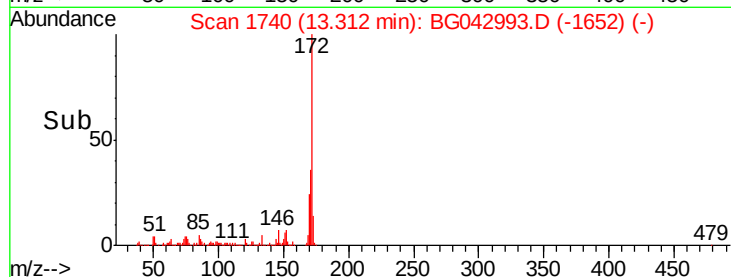
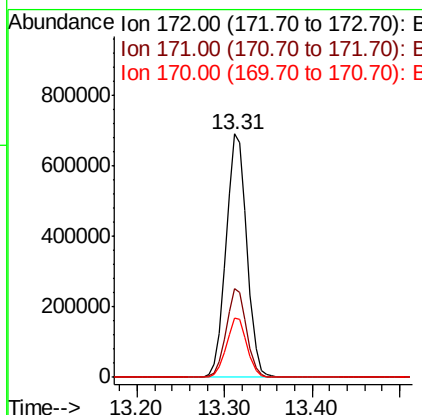
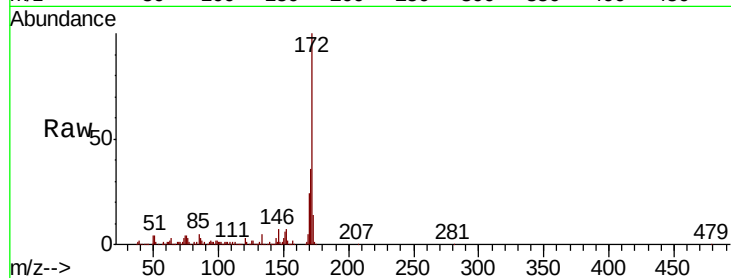




#45  
2-Fluorobiphenyl  
Concen: 92.379 ng  
RT: 13.31 min Scan# 1740  
Delta R.T. -0.01 min  
Lab File: BG042993.D  
Acq: 2 Oct 2019 20:23

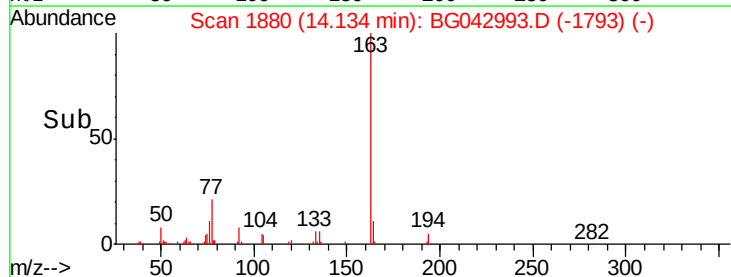
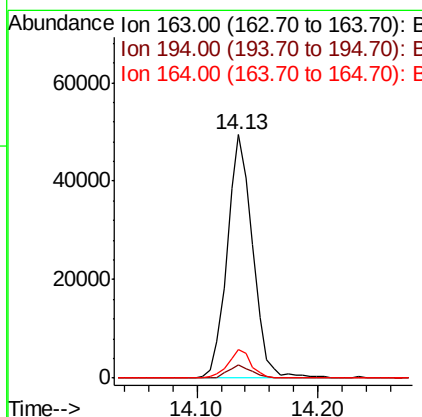
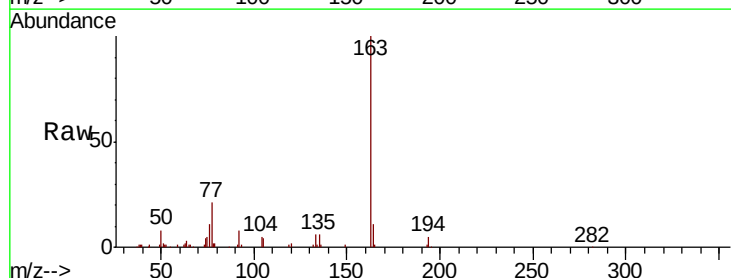
Instrument :  
BNA\_G  
ClientSampleId :  
MW-107

Tot Ion:172 Resp: 1128218  
Ion Ratio Lower Upper  
172 100  
171 36.5 29.6 44.4  
170 24.4 19.6 29.4

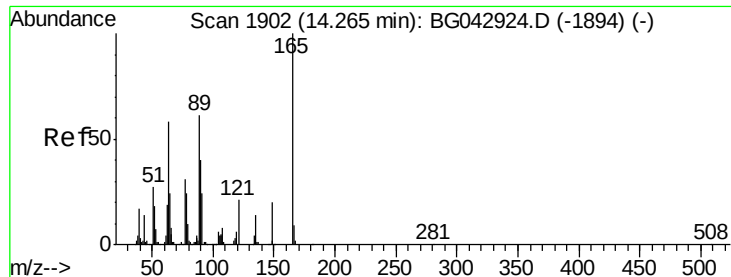


#50  
Dimethylphthalate  
Concen: 5.444 ng  
RT: 14.13 min Scan# 1880  
Delta R.T. -0.02 min  
Lab File: BG042993.D  
Acq: 2 Oct 2019 20:23

Tgt Ion:163 Resp: 72224  
Ion Ratio Lower Upper  
163 100  
194 5.5 4.4 6.6  
164 11.5 8.6 12.8



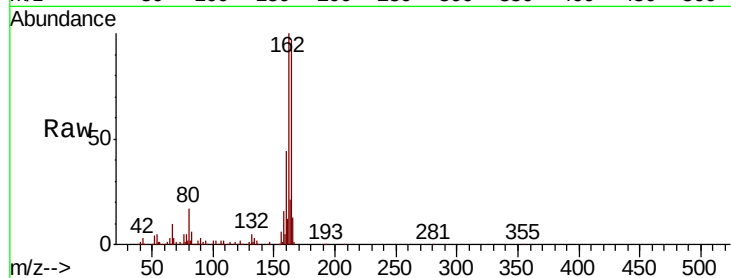




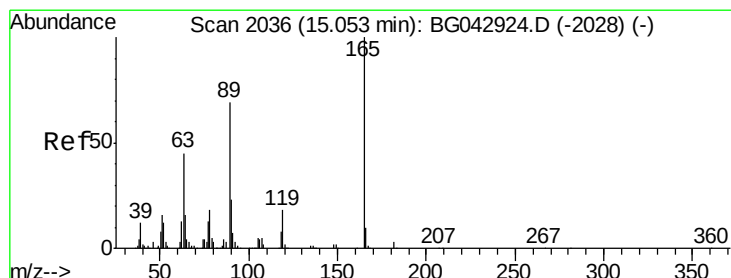
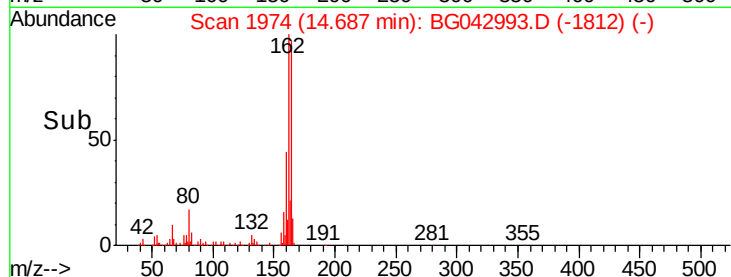
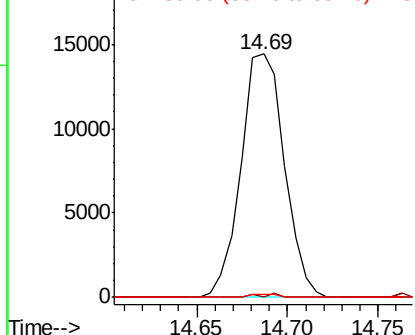
#51  
 2,6-Dinitrotoluene  
 Concen: 8.500 ng  
 RT: 14.69 min Scan# 1974  
 Delta R.T. 0.42 min  
 Lab File: BG042993.D  
 Acq: 2 Oct 2019 20:23

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MW-107

Tot Ion:165 Resp: 24014  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 50.3 75.5#  
 89 1.2 48.9 73.3#

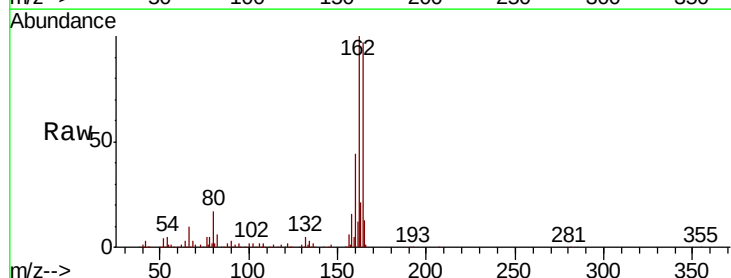


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 89.00 (88.70 to 89.70): BGC

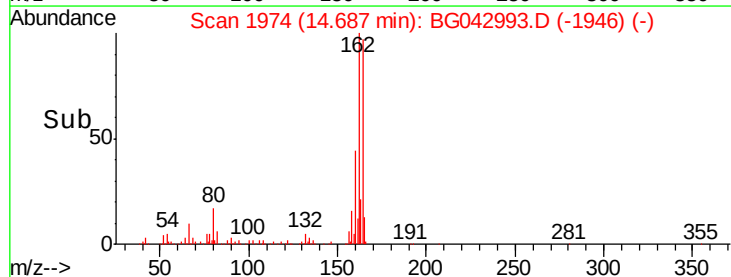
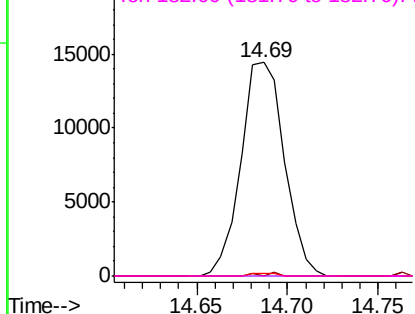


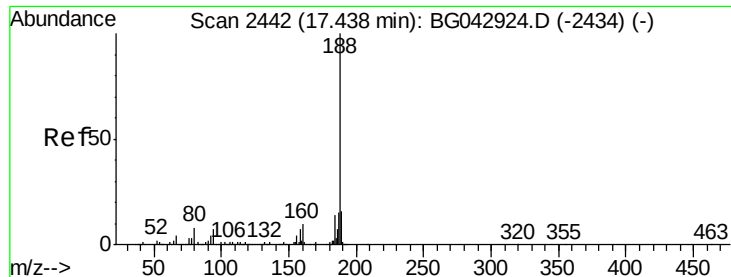
#57  
 2,4-Dinitrotoluene  
 Concen: 5.805 ng  
 RT: 14.69 min Scan# 1974  
 Delta R.T. -0.37 min  
 Lab File: BG042993.D  
 Acq: 2 Oct 2019 20:23

Tgt Ion:165 Resp: 24014  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 36.5 54.7#  
 89 1.2 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: 17.43 min Scan# 2441

Delta R.T. -0.01 min

Lab File: BG042993.D

Acq: 2 Oct 2019 20:23

Instrument :

BNA\_G

ClientSampled :

MW-107

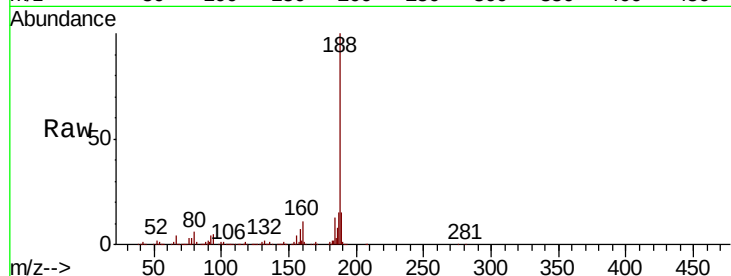
Tot Ion:188 Resp: 420873

Ion Ratio Lower Upper

188 100

94 5.1 5.7 8.5#

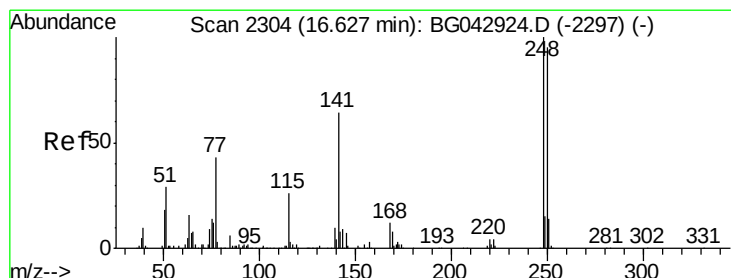
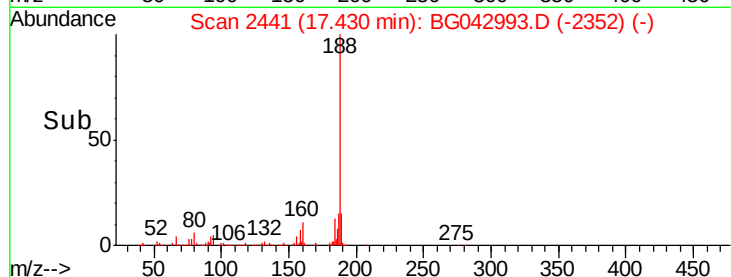
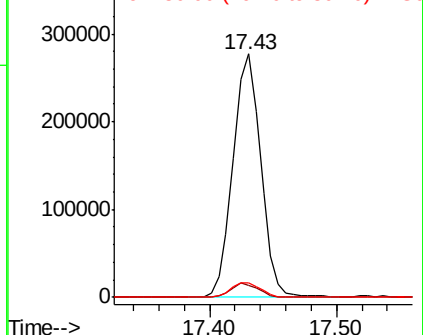
80 6.2 6.5 9.7#



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: 5.615 ng

RT: 16.17 min Scan# 2227

Delta R.T. -0.45 min

Lab File: BG042993.D

Acq: 2 Oct 2019 20:23

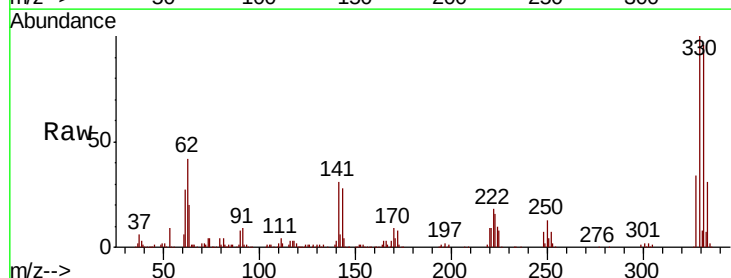
Tgt Ion:248 Resp: 29662

Ion Ratio Lower Upper

248 100

250 177.5 75.8 113.8#

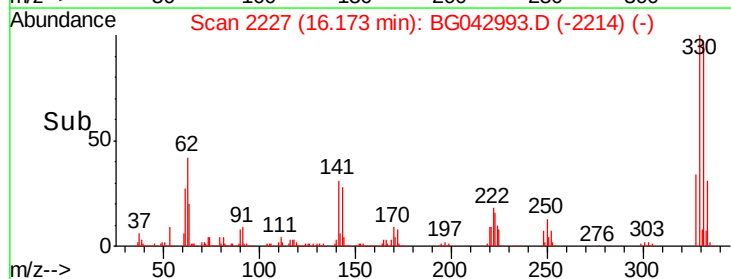
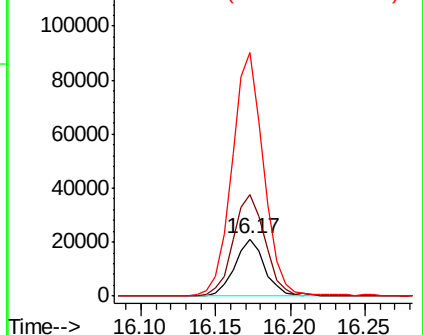
141 424.9 51.1 76.7#

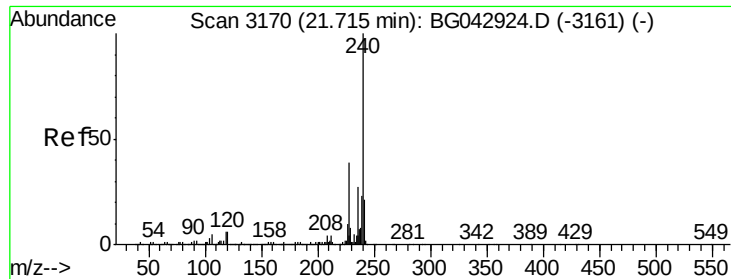


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

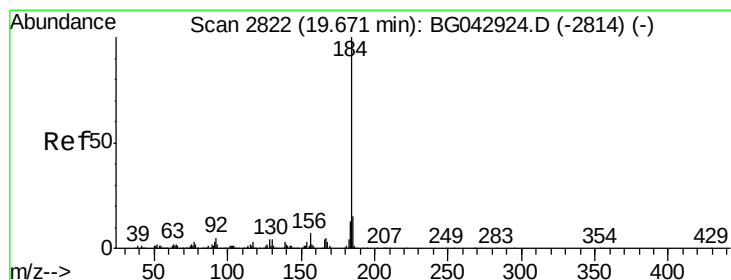
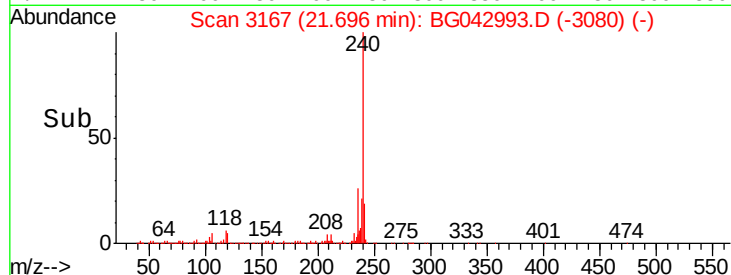
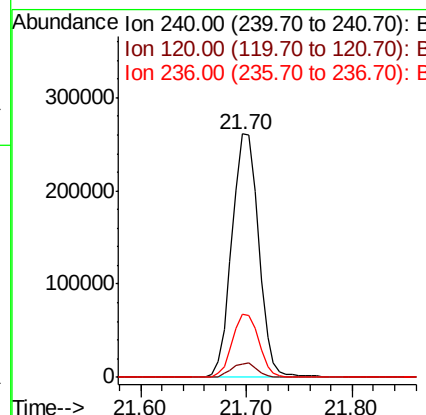
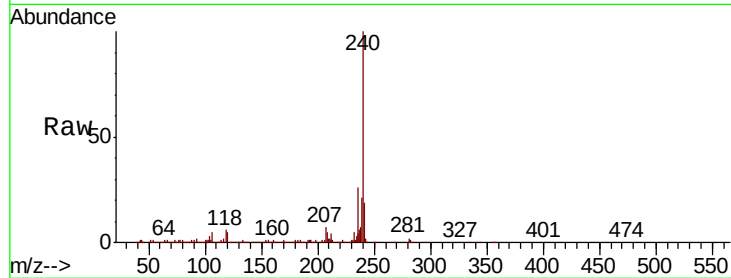




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.70 min Scan# 3167  
Delta R.T. -0.02 min  
Lab File: BG042993.D  
Acq: 2 Oct 2019 20:23

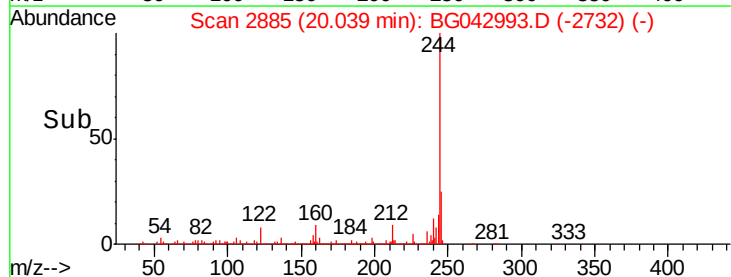
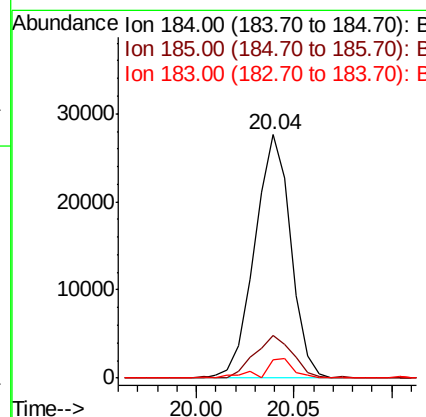
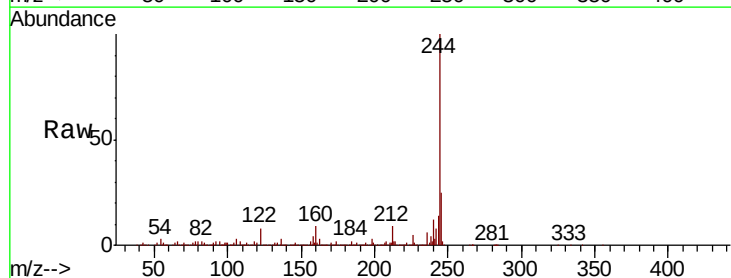
Instrument :  
BNA\_G  
ClientSampleId :  
MW-107

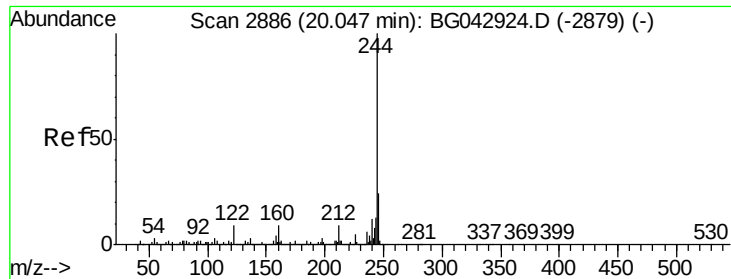
Tot Ion:240 Resp: 458922  
Ion Ratio Lower Upper  
240 100  
120 5.4 4.8 7.2  
236 26.2 21.4 32.0



#77  
Benzidine  
Concen: 3.064 ng  
RT: 20.04 min Scan# 2885  
Delta R.T. 0.37 min  
Lab File: BG042993.D  
Acq: 2 Oct 2019 20:23

Tgt Ion:184 Resp: 35203  
Ion Ratio Lower Upper  
184 100  
185 17.3 11.8 17.8  
183 7.6 10.1 15.1#





#79

Terphenyl-d14

Concen: 97.607 ng

RT: 20.04 min Scan# 2885

Delta R.T. -0.01 min

Lab File: BG042993.D

Acq: 2 Oct 2019 20:23

Instrument :

BNA\_G

ClientSampleId :

MW-107

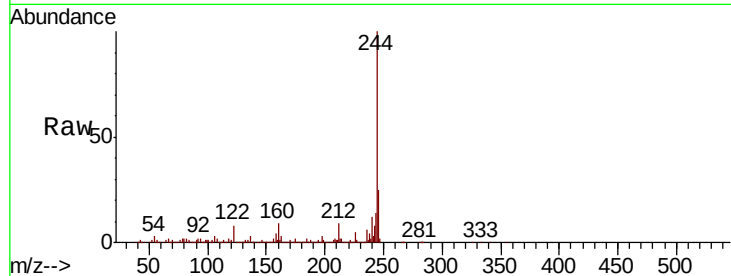
Tot Ion:244 Resp: 2102138

Ion Ratio Lower Upper

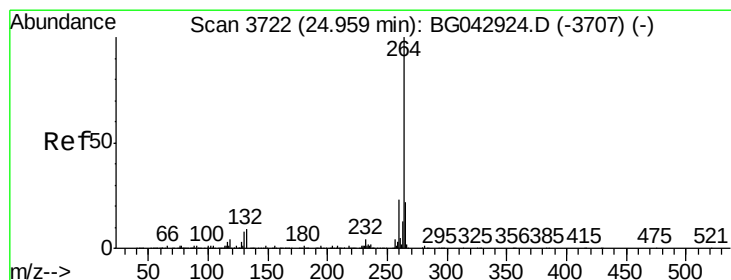
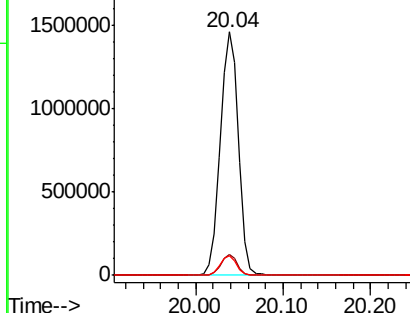
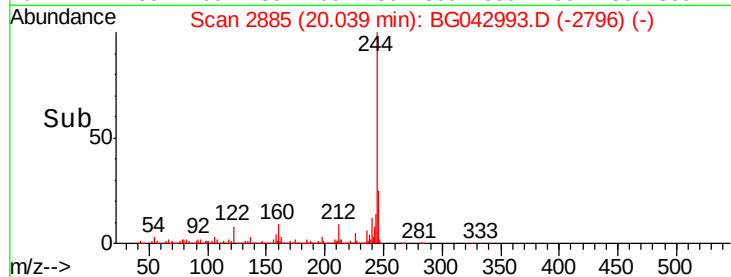
244 100

212 8.6 7.4 11.0

122 8.0 7.0 10.4



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: 24.93 min Scan# 3717

Delta R.T. -0.03 min

Lab File: BG042993.D

Acq: 2 Oct 2019 20:23

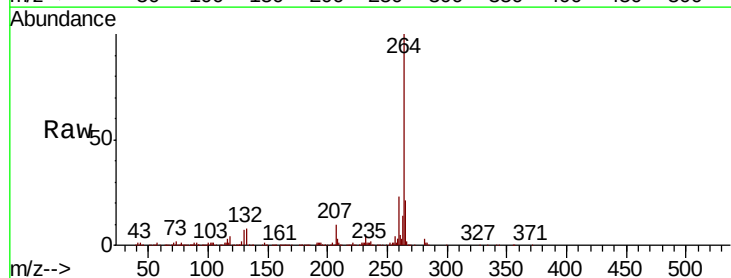
Tgt Ion:264 Resp: 529338

Ion Ratio Lower Upper

264 100

260 23.0 18.7 28.1

265 21.1 17.7 26.5



Abundance Ion 264.00 (263.70 to 264.70): E  
200000  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

