

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG060719\  
 Data File : BG041124.D  
 Acq On : 8 Jun 2019 7:55  
 Operator : HP/JU  
 Sample : K3236-01  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jun 08 18:23:39 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG052919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Jun 08 17:33:39 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.11  | 152  | 44314    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.93 | 136  | 186403   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.73 | 164  | 141907   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.48 | 188  | 334680   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.75 | 240  | 331780   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 25.07 | 264  | 354613   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.64  | 112  | 156868   | 63.83  | ng    | 0.00     |
| 7) Phenol-d6                | 7.25  | 99   | 153506   | 40.45  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.28  | 82   | 369726   | 88.05  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.22 | 330  | 273426   | 129.79 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.36 | 172  | 924687   | 93.84  | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.07 | 244  | 1401254  | 89.64  | ng    | 0.00     |

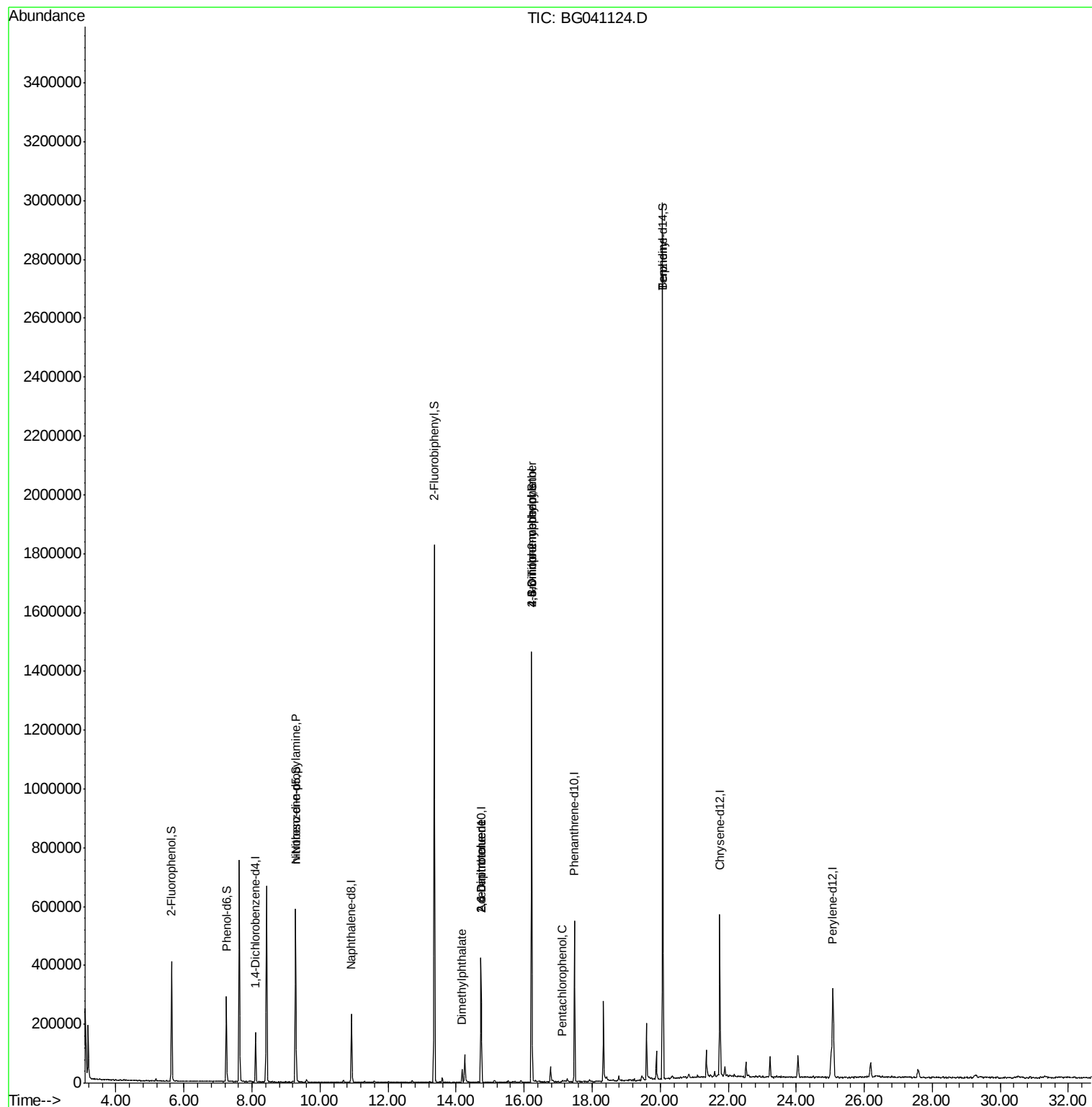
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 9.29  | 70   | 53638    | 18.365 | ng    | # 71   |
| 50) Dimethylphthalate          | 14.18 | 163  | 27387    | 2.280  | ng    | # 98   |
| 51) 2,6-Dinitrotoluene         | 14.73 | 165  | 19006    | 7.338  | ng    | # 20   |
| 57) 2,4-Dinitrotoluene         | 14.73 | 165  | 19006    | 5.195  | ng    | # 21   |
| 65) 4,6-Dinitro-2-methylphenol | 16.22 | 198  | 900      | 9.002  | ng    | # 1    |
| 67) 4-Bromophenyl-phenylether  | 16.22 | 248  | 19702    | 4.362  | ng    | # 1    |
| 70) Pentachlorophenol          | 17.12 | 266  | 1027     | 4.633  | ng    | # 71   |
| 77) Benzidine                  | 20.07 | 184  | 22817    | 2.883  | ng    | # 91   |

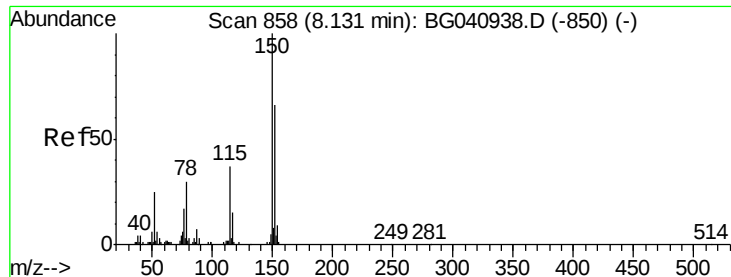
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_G  
ClientSampleId :

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG052919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Jun 08 17:33:39 2019  
Response via : Initial Calibration



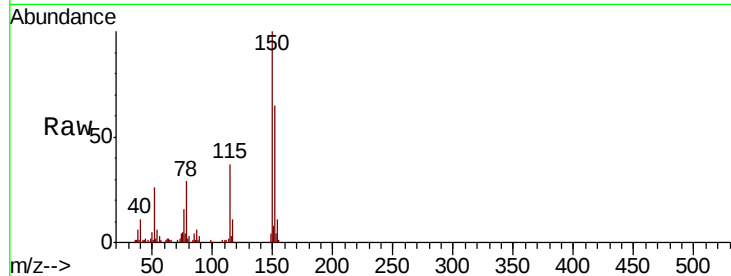


#1

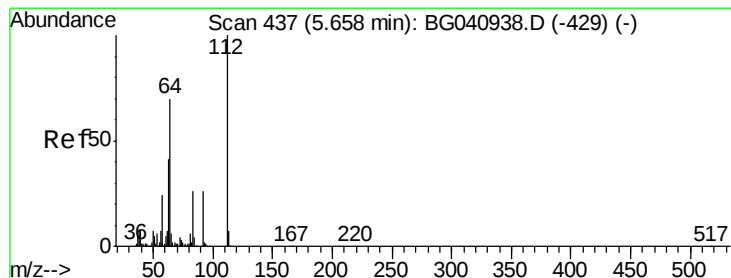
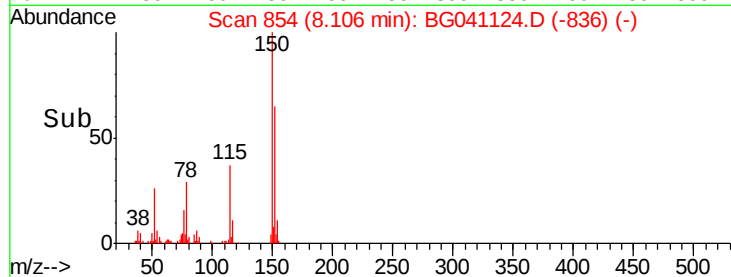
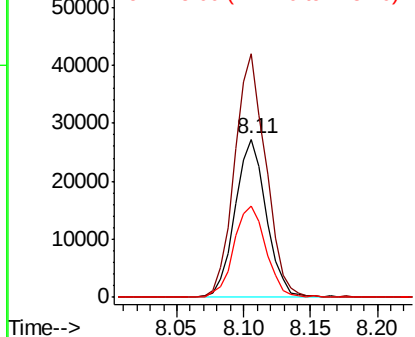
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.11 min Scan# 854  
Delta R.T. 0.00 min  
Lab File: BG041124.D  
Acq: 8 Jun 2019 7:55

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 44314  
Ion Ratio Lower Upper  
152 100  
150 154.2 111.7 167.5  
115 57.5 48.6 73.0



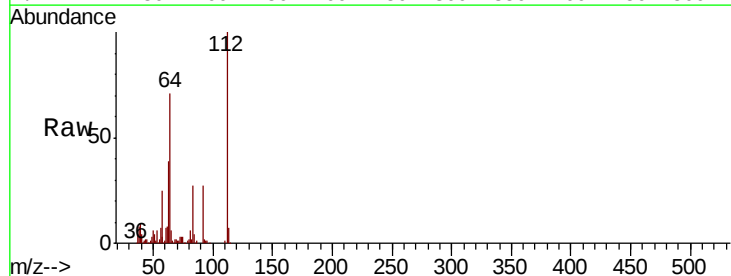
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



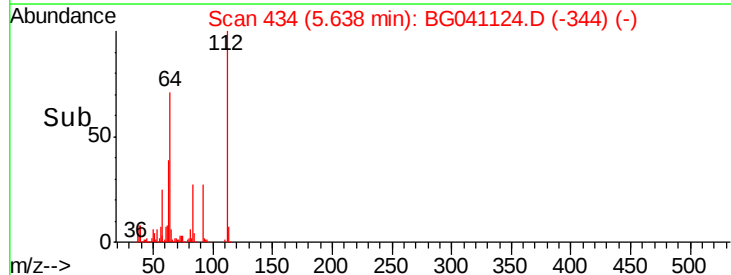
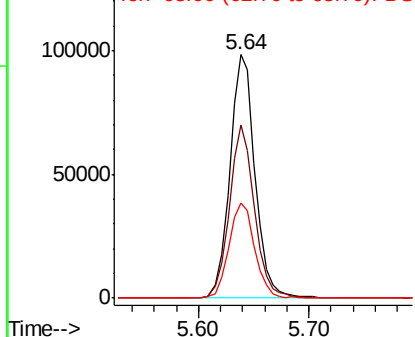
#5

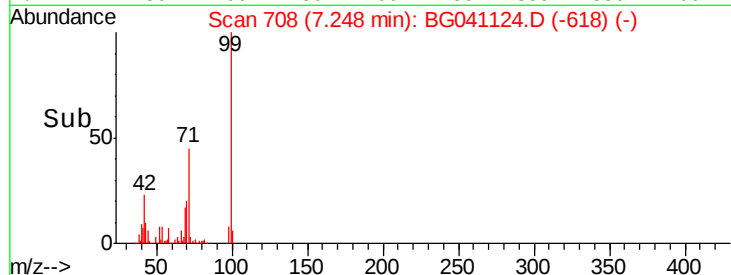
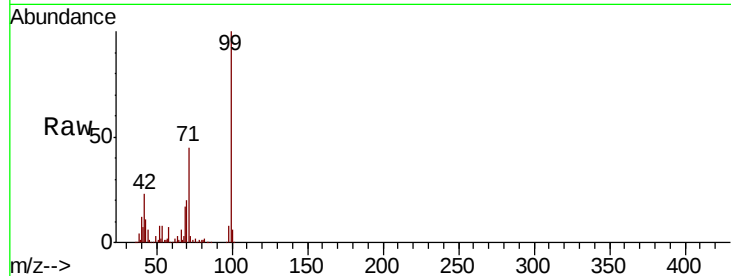
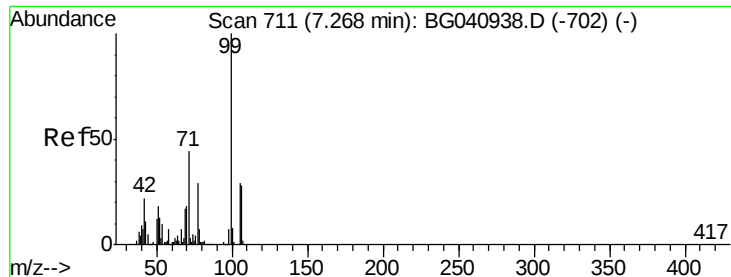
2-Fluorophenol  
Concen: 63.832 ng  
RT: 5.64 min Scan# 434  
Delta R.T. -0.00 min  
Lab File: BG041124.D  
Acq: 8 Jun 2019 7:55

Tgt Ion:112 Resp: 156868  
Ion Ratio Lower Upper  
112 100  
64 70.9 54.5 81.7  
63 39.3 32.2 48.2



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





#7

Phenol-d6

Concen: 40.446 ng

RT: 7.25 min Scan# 708

Delta R.T. -0.00 min

Lab File: BG041124.D

Acq: 8 Jun 2019 7:55

Instrument :

BNA\_G

ClientSampleId :

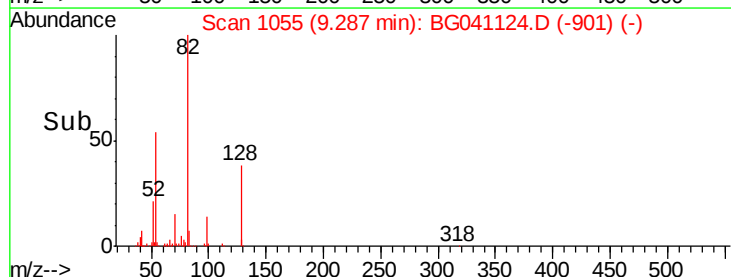
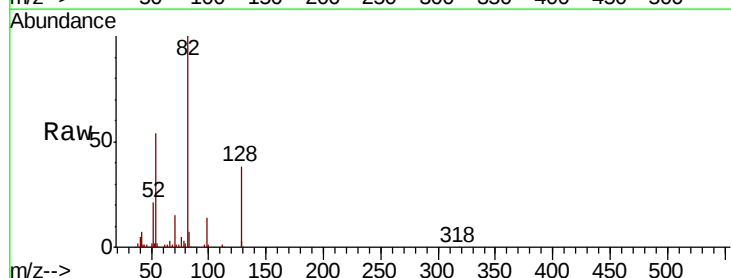
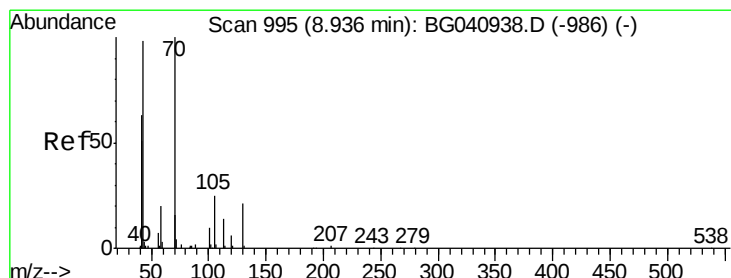
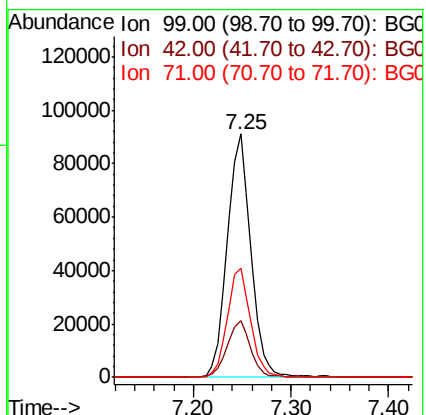
Tot Ion: 99 Resp: 153506

Ion Ratio Lower Upper

99 100

42 23.3 18.8 28.2

71 44.8 35.6 53.4



#19

n-Nitroso-di-n-propylamine

Concen: 18.365 ng

RT: 9.29 min Scan# 1055

Delta R.T. 0.37 min

Lab File: BG041124.D

Acq: 8 Jun 2019 7:55

Tgt Ion: 70 Resp: 53638

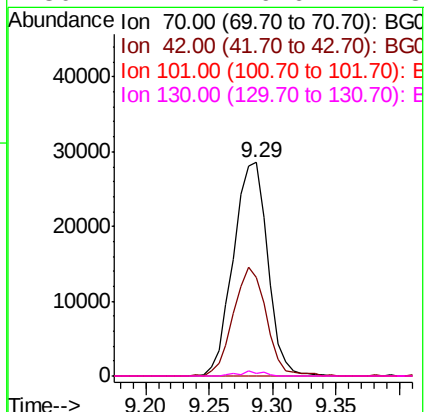
Ion Ratio Lower Upper

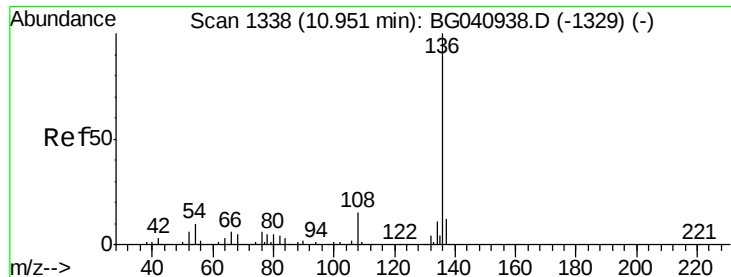
70 100

42 46.3 53.1 79.7#

101 0.0 8.0 12.0#

130 1.2 16.6 24.8#

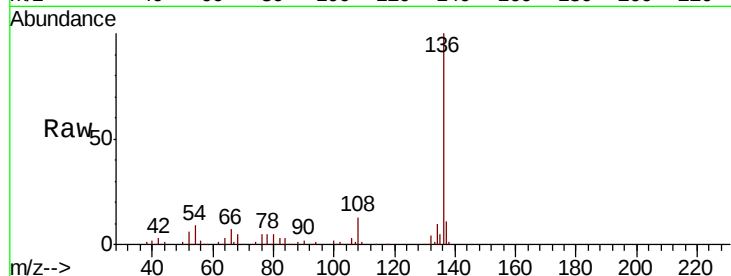




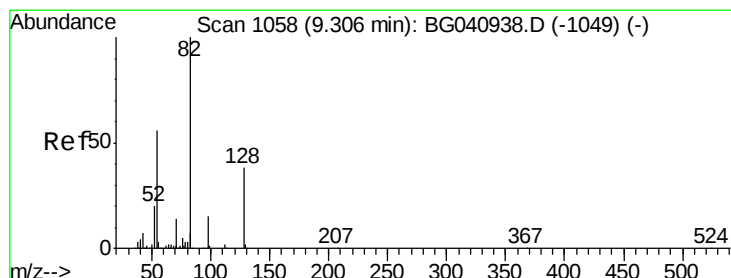
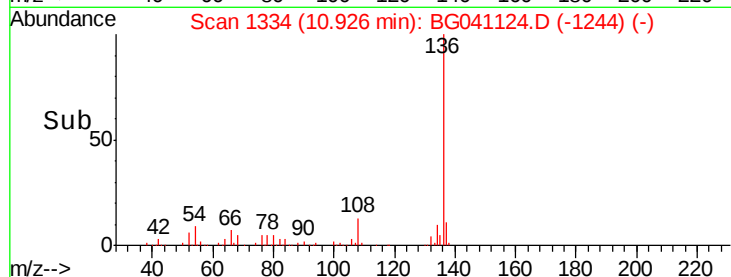
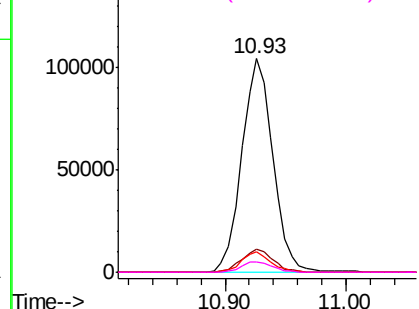
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.93 min Scan# 1334  
Delta R.T. -0.00 min  
Lab File: BG041124.D  
Acq: 8 Jun 2019 7:55

Instrument :  
BNA\_G  
ClientSampleId :

|             |              |
|-------------|--------------|
| Tot Ion:136 | Resp: 186403 |
| Ion Ratio   | Lower Upper  |
| 136 100     |              |
| 137 11.0    | 8.9 13.3     |
| 54 9.8      | 7.4 11.2     |
| 68 4.5      | 4.0 6.0      |

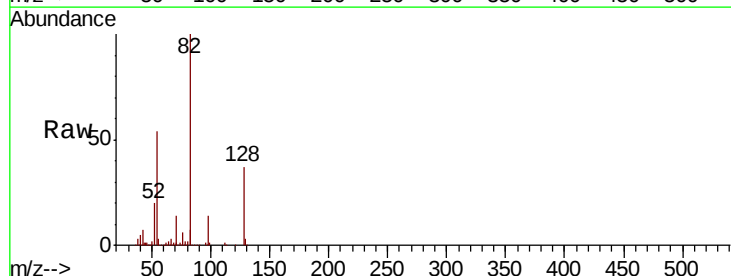


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

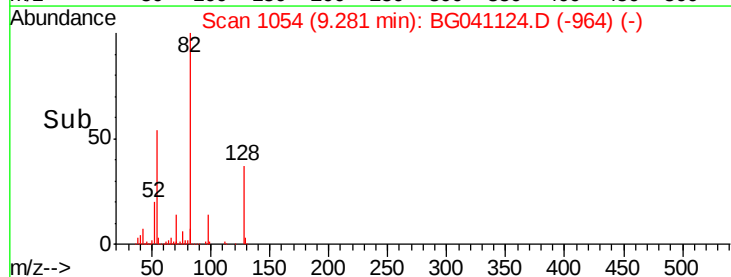
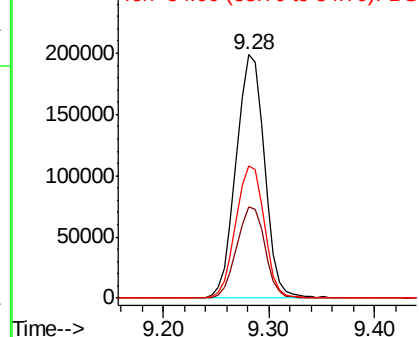


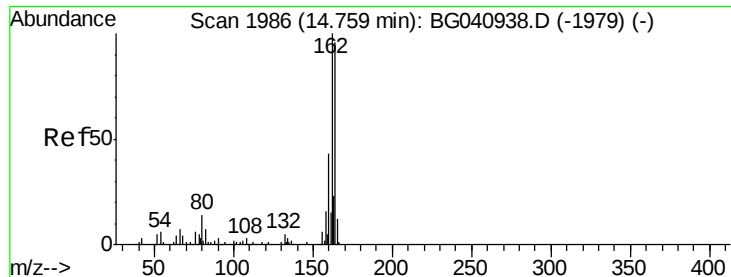
#23  
Nitrobenzene-d5  
Concen: 88.054 ng  
RT: 9.28 min Scan# 1054  
Delta R.T. -0.00 min  
Lab File: BG041124.D  
Acq: 8 Jun 2019 7:55

|             |              |
|-------------|--------------|
| Tgt Ion: 82 | Resp: 369726 |
| Ion Ratio   | Lower Upper  |
| 82 100      |              |
| 128 37.4    | 29.8 44.6    |
| 54 54.2     | 43.6 65.4    |



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





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.73 min Scan# 1982

Delta R.T. -0.01 min

Lab File: BG041124.D

Acq: 8 Jun 2019 7:55

Instrument :

BNA\_G

ClientSampleId :

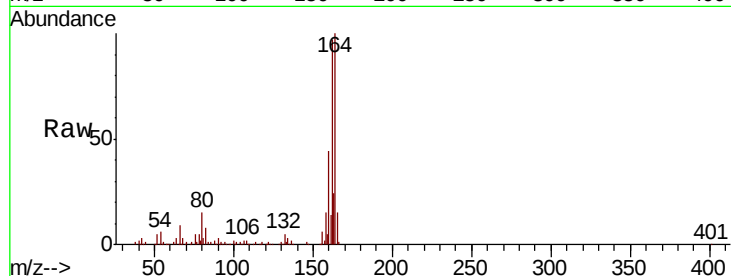
Tot Ion:164 Resp: 141907

Ion Ratio Lower Upper

164 100

162 96.8 85.4 128.0

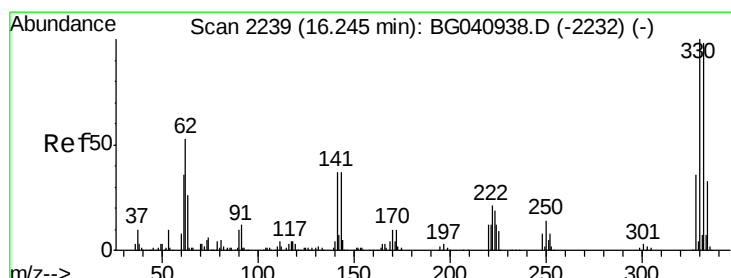
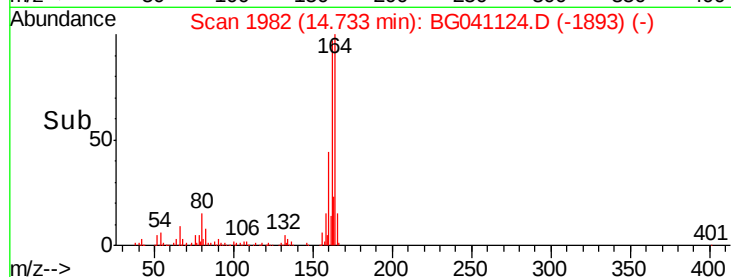
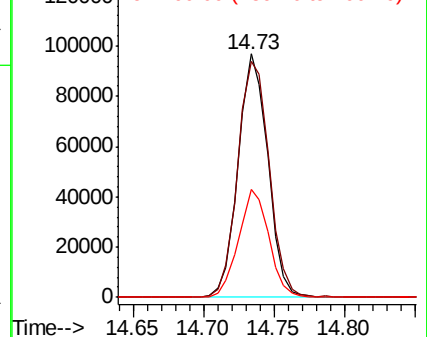
160 44.2 37.1 55.7



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: 129.788 ng

RT: 16.22 min Scan# 2235

Delta R.T. -0.00 min

Lab File: BG041124.D

Acq: 8 Jun 2019 7:55

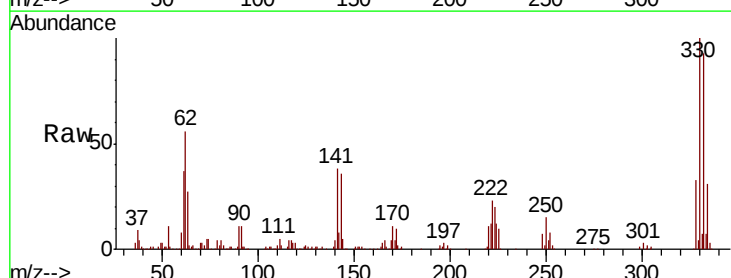
Tgt Ion:330 Resp: 273426

Ion Ratio Lower Upper

330 100

332 95.9 77.9 116.9

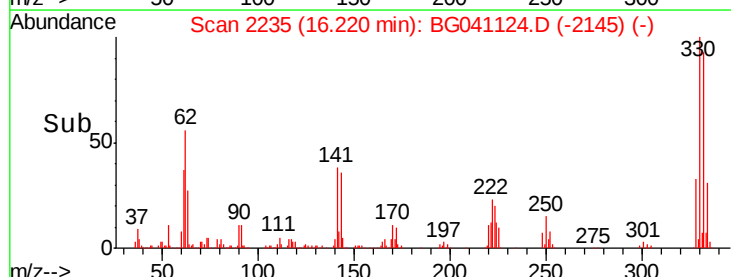
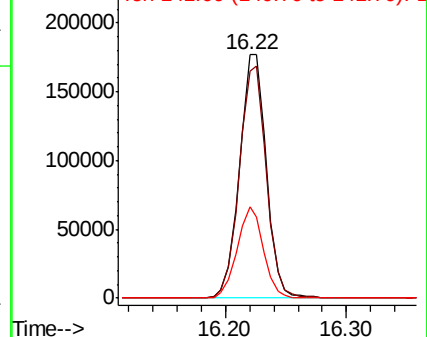
141 37.2 29.0 43.4

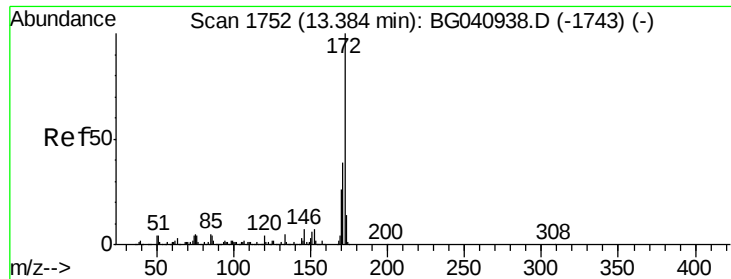


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

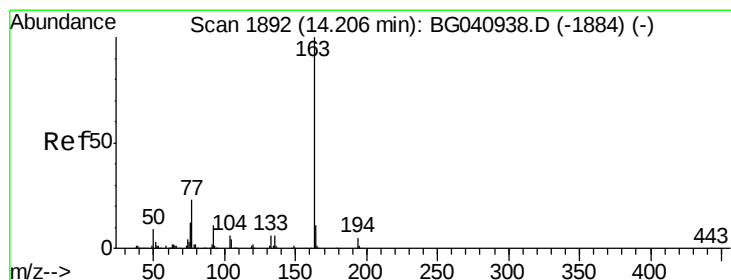
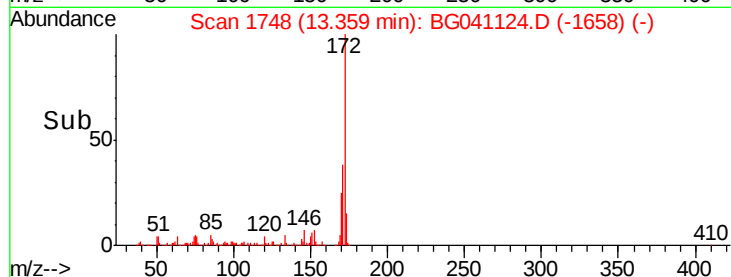
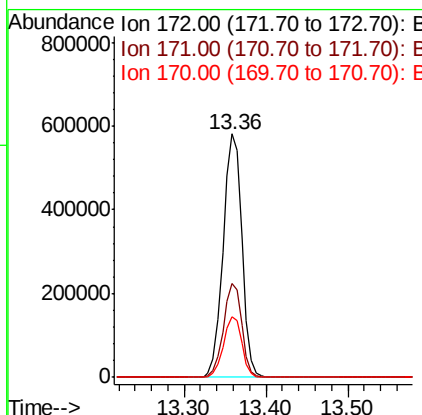
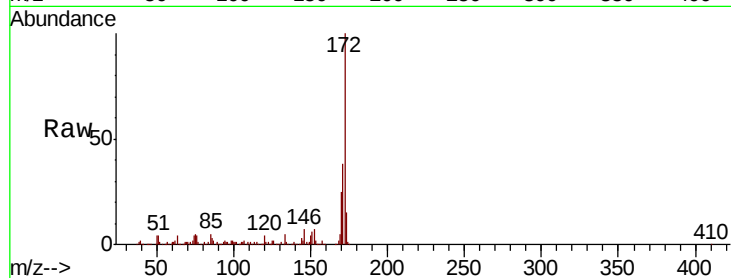




#45  
2-Fluorobiphenyl  
Concen: 93.839 ng  
RT: 13.36 min Scan# 1748  
Delta R.T. -0.00 min  
Lab File: BG041124.D  
Acq: 8 Jun 2019 7:55

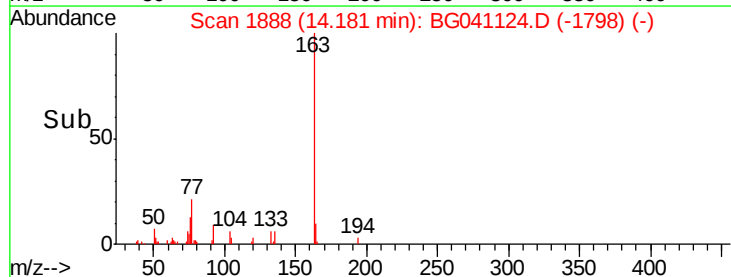
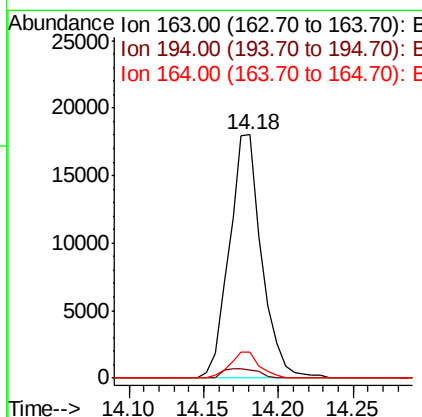
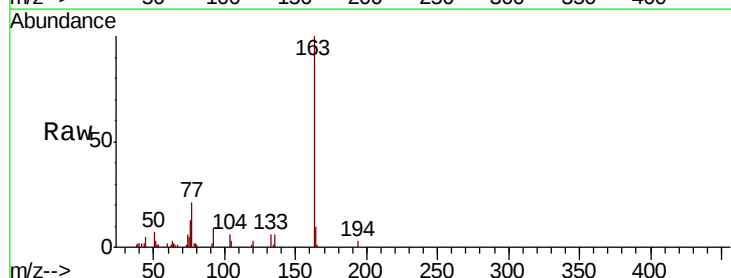
Instrument :  
BNA\_G  
ClientSampleId :

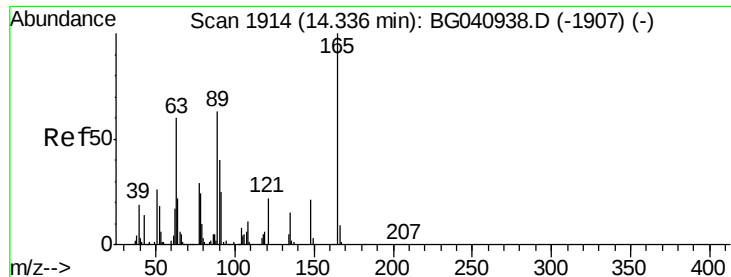
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.3  | 30.8  | 46.2  |
| 170     | 24.9  | 21.3  | 31.9  |



#50  
Dimethylphthalate  
Concen: 2.280 ng  
RT: 14.18 min Scan# 1888  
Delta R.T. -0.00 min  
Lab File: BG041124.D  
Acq: 8 Jun 2019 7:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.1   | 3.8   | 5.6#  |
| 164     | 10.5  | 8.3   | 12.5  |





#51

2,6-Dinitrotoluene

Concen: 7.338 ng

RT: 14.73 min Scan# 1982

Delta R.T. 0.41 min

Lab File: BG041124.D

Acq: 8 Jun 2019 7:55

Instrument :

BNA\_G

ClientSampleId :

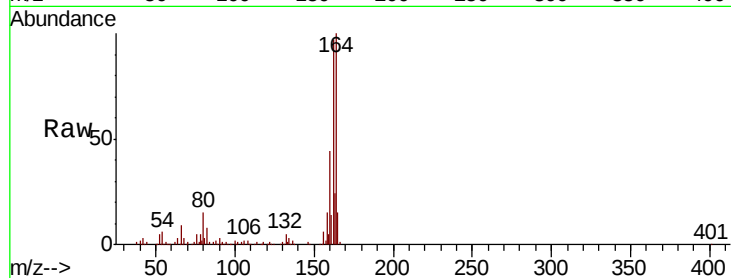
Tot Ion:165 Resp: 19006

Ion Ratio Lower Upper

165 100

63 0.0 48.6 73.0#

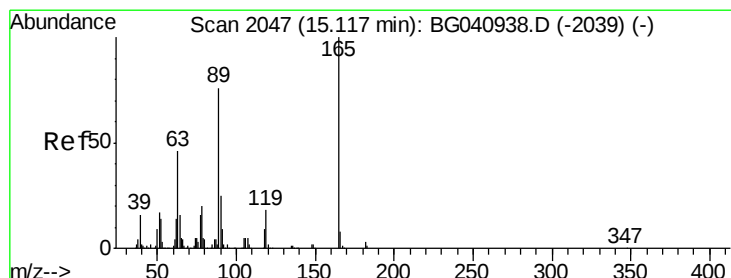
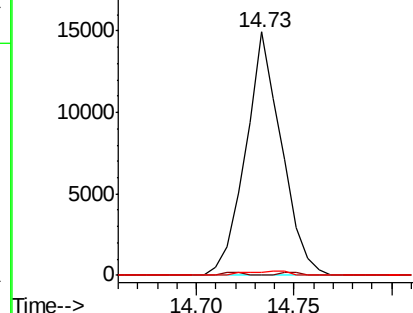
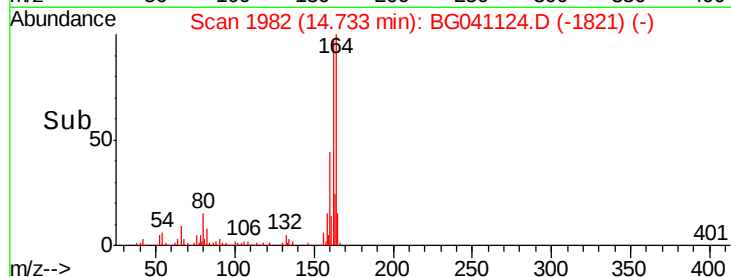
89 1.2 51.1 76.7#



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: 5.195 ng

RT: 14.73 min Scan# 1982

Delta R.T. -0.37 min

Lab File: BG041124.D

Acq: 8 Jun 2019 7:55

Tgt Ion:165 Resp: 19006

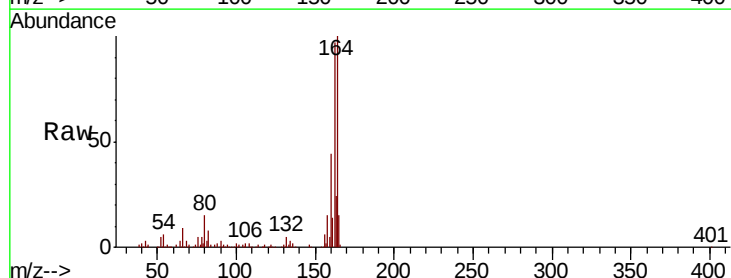
Ion Ratio Lower Upper

165 100

63 0.0 38.1 57.1#

89 1.2 60.7 91.1#

182 0.0 2.4 3.6#

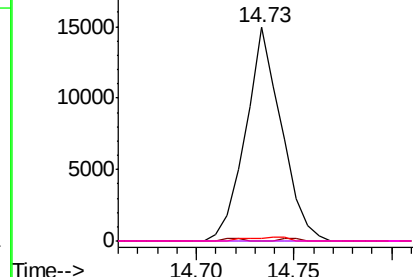
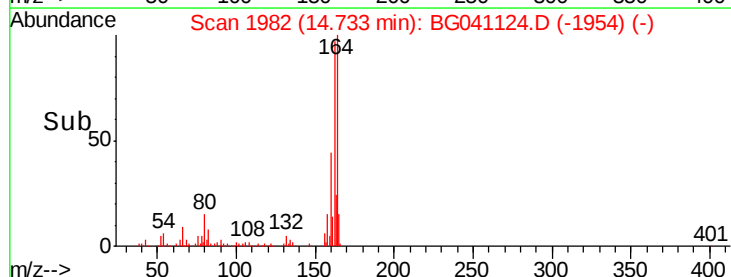


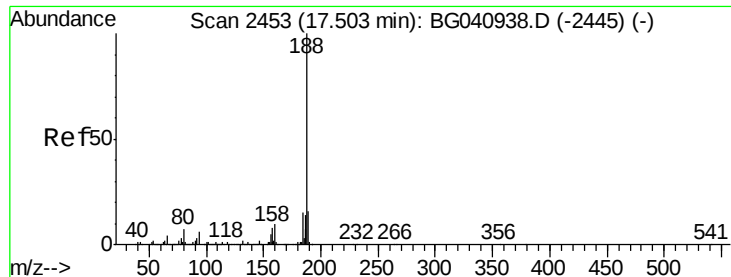
Abundance Ion 165.00 (164.70 to 165.70): E

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: 17.48 min Scan# 2449

Delta R.T. -0.00 min

Lab File: BG041124.D

Acq: 8 Jun 2019 7:55

Instrument :

BNA\_G

ClientSampleId :

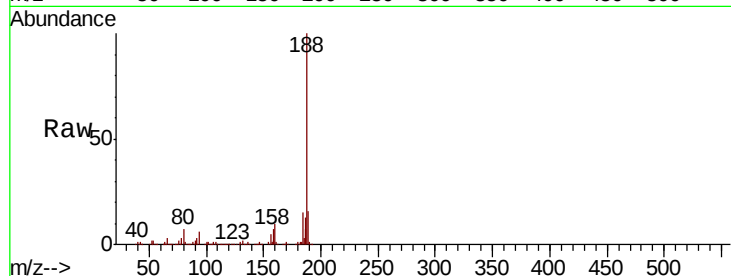
Tot Ion:188 Resp: 334680

Ion Ratio Lower Upper

188 100

94 5.6 4.6 7.0

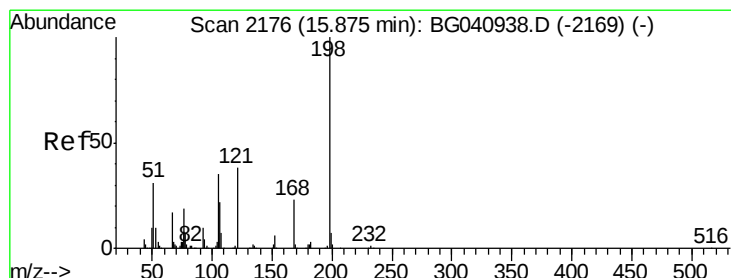
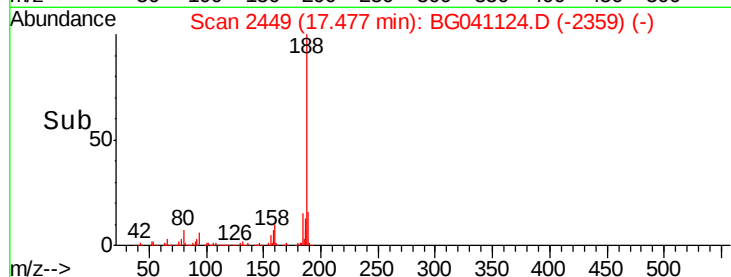
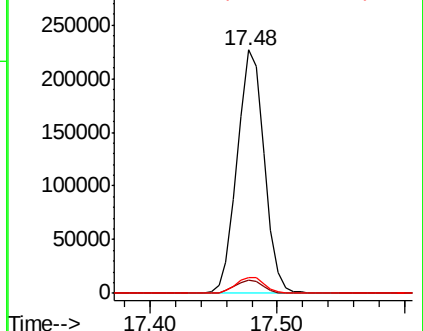
80 6.5 5.8 8.8



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: 9.002 ng

RT: 16.22 min Scan# 2235

Delta R.T. 0.36 min

Lab File: BG041124.D

Acq: 8 Jun 2019 7:55

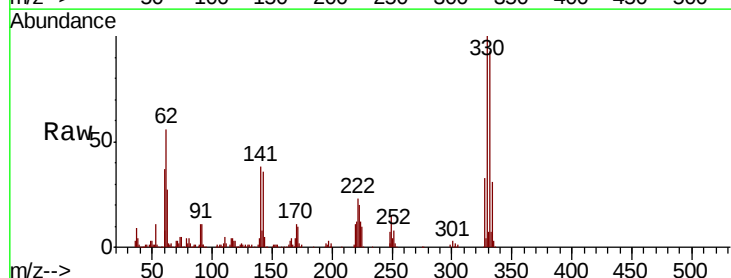
Tgt Ion:198 Resp: 900

Ion Ratio Lower Upper

198 100

51 159.9 22.9 62.9#

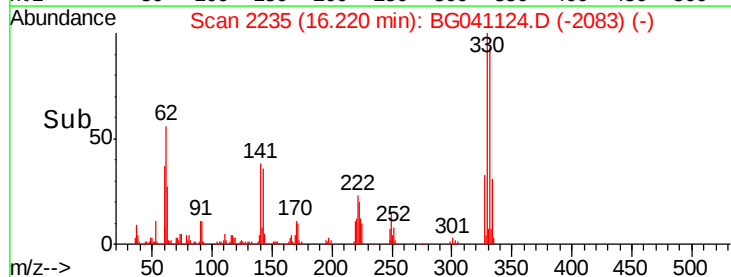
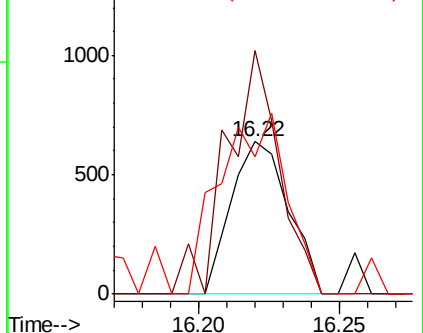
105 90.0 19.1 59.1#

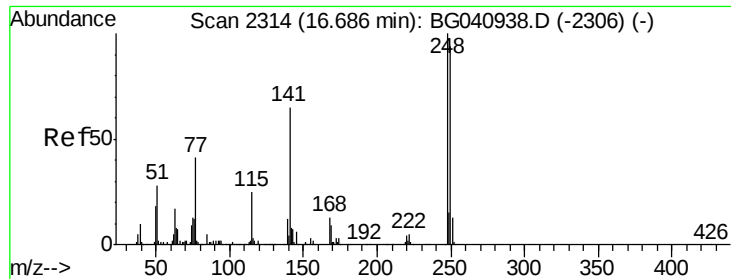


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BGC

Ion 105.00 (104.70 to 105.70): E

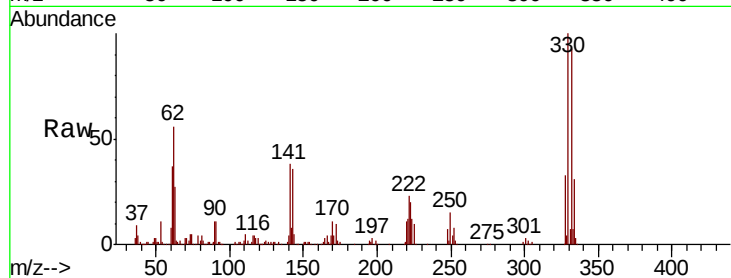




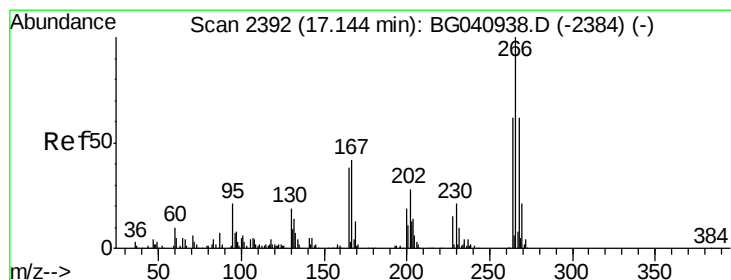
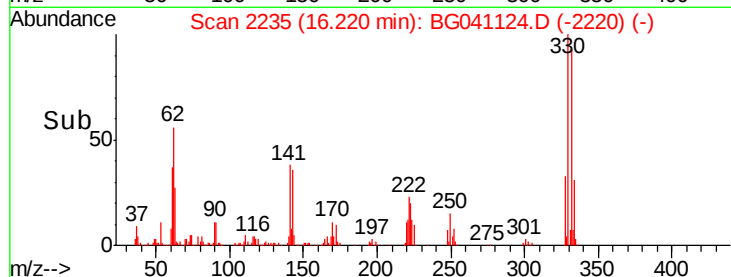
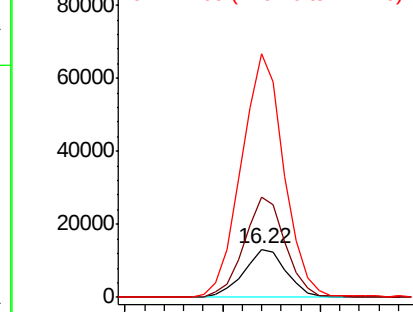
#67  
4-Bromophenyl-phenylether  
Concen: 4.362 ng  
RT: 16.22 min Scan# 2235  
Delta R.T. -0.44 min  
Lab File: BG041124.D  
Acq: 8 Jun 2019 7:55

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:248 Resp: 19702  
Ion Ratio Lower Upper  
248 100  
250 209.4 80.9 121.3#  
141 509.9 56.1 84.1#

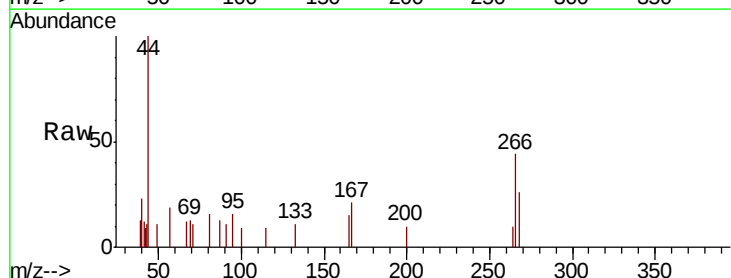


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

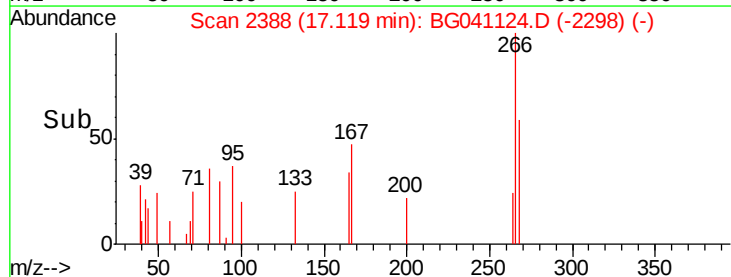
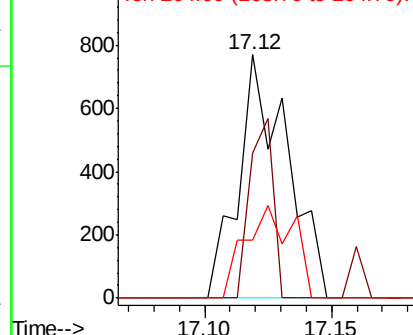


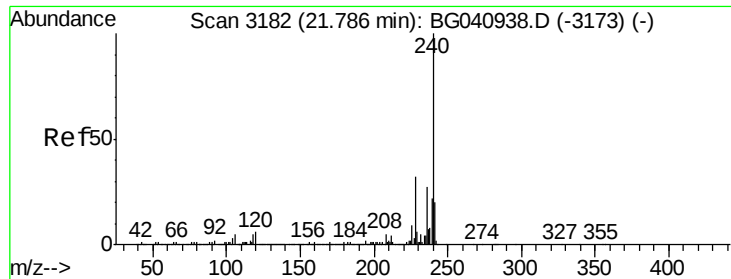
#70  
Pentachlorophenol  
Concen: 4.633 ng  
RT: 17.12 min Scan# 2388  
Delta R.T. -0.00 min  
Lab File: BG041124.D  
Acq: 8 Jun 2019 7:55

Tgt Ion:266 Resp: 1027  
Ion Ratio Lower Upper  
266 100  
268 59.4 52.4 78.6  
264 23.8 50.5 75.7#



Abundance Ion 265.70 (265.40 to 266.40): E  
Ion 268.00 (267.70 to 268.70): E  
Ion 264.00 (263.70 to 264.70): E

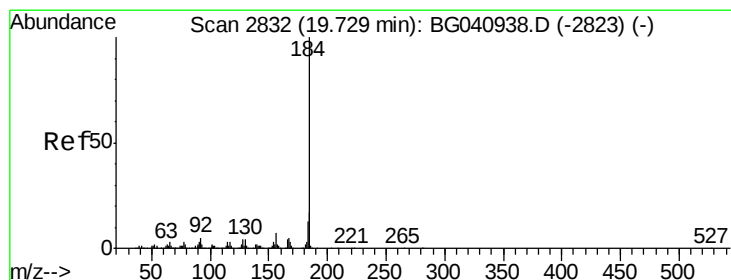
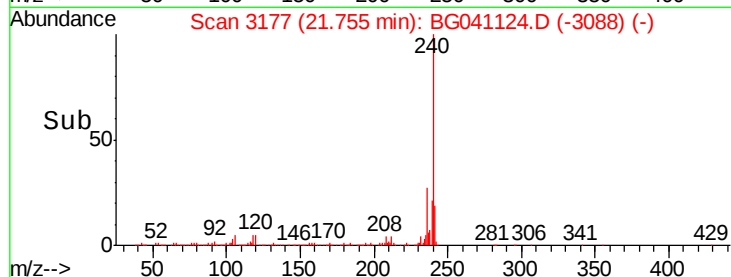
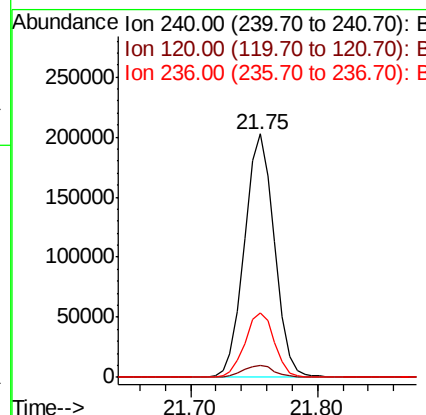
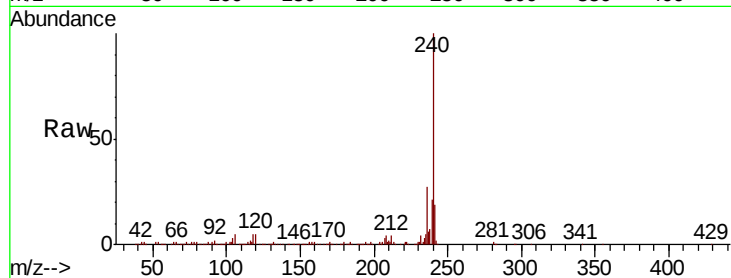




#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.75 min Scan# 3177  
 Delta R.T. -0.01 min  
 Lab File: BG041124.D  
 Acq: 8 Jun 2019 7:55

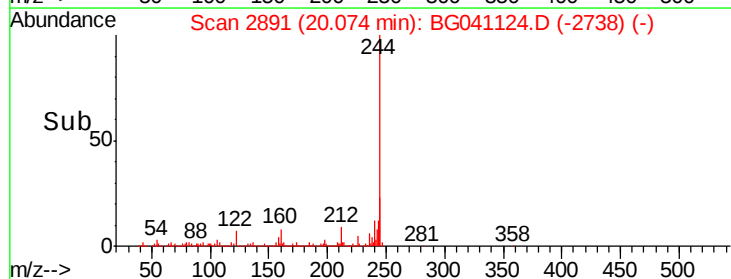
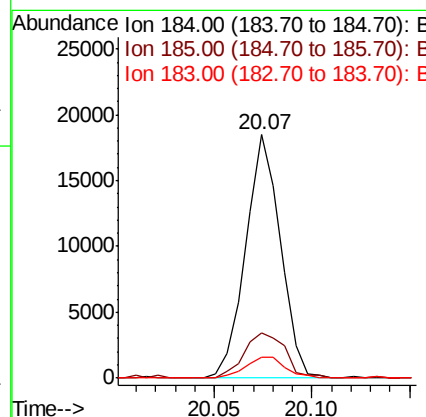
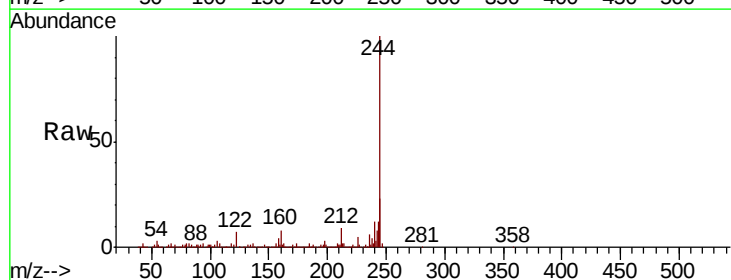
Instrument :  
 BNA\_G  
 ClientSampled :

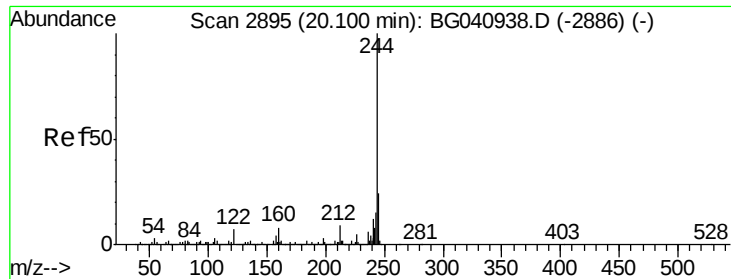
Tot Ion:240 Resp: 331780  
 Ion Ratio Lower Upper  
 240 100  
 120 5.1 4.6 6.8  
 236 26.6 20.6 31.0



#77  
 Benzidine  
 Concen: 2.883 ng  
 RT: 20.07 min Scan# 2891  
 Delta R.T. 0.37 min  
 Lab File: BG041124.D  
 Acq: 8 Jun 2019 7:55

Tgt Ion:184 Resp: 22817  
 Ion Ratio Lower Upper  
 184 100  
 185 18.7 12.6 18.8  
 183 8.7 10.2 15.4#





#79

Terphenyl-d14

Concen: 89.636 ng

RT: 20.07 min Scan# 2891

Delta R.T. -0.00 min

Lab File: BG041124.D

Acq: 8 Jun 2019 7:55

Instrument :

BNA\_G

ClientSampled :

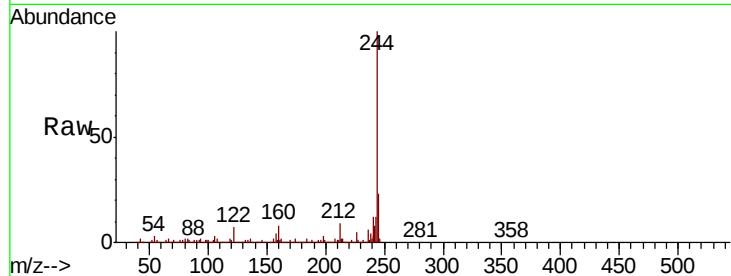
Tot Ion:244 Resp: 1401254

Ion Ratio Lower Upper

244 100

212 8.8 6.9 10.3

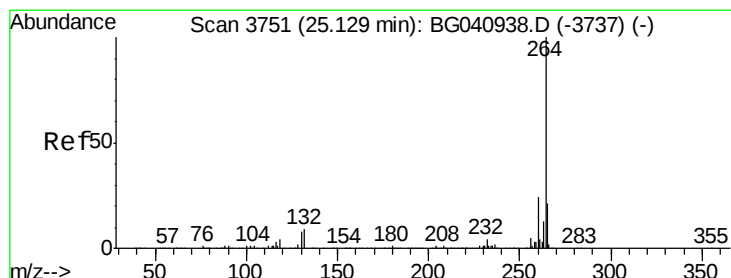
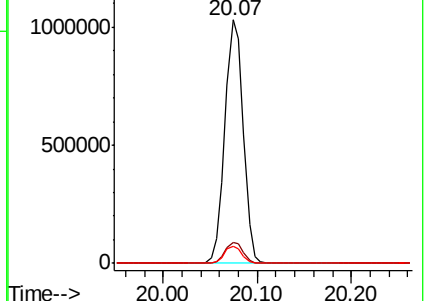
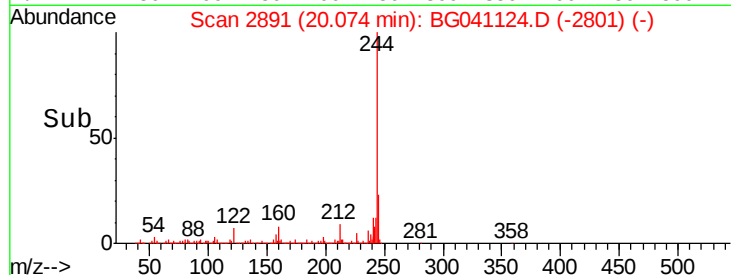
122 7.2 5.4 8.0



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: 25.07 min Scan# 3742

Delta R.T. -0.01 min

Lab File: BG041124.D

Acq: 8 Jun 2019 7:55

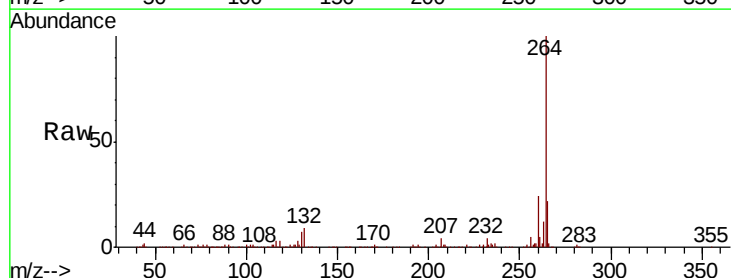
Tgt Ion:264 Resp: 354613

Ion Ratio Lower Upper

264 100

260 23.9 19.1 28.7

265 22.2 17.6 26.4



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

