

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG060519\  
 Data File : BG041074.D  
 Acq On : 5 Jun 2019 16:20  
 Operator : HP/JU  
 Sample : PB120290BL  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB120290BL

Quant Time: Jun 06 04:22:54 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG052919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 29 18:39:57 2019  
 Response via : Initial Calibration

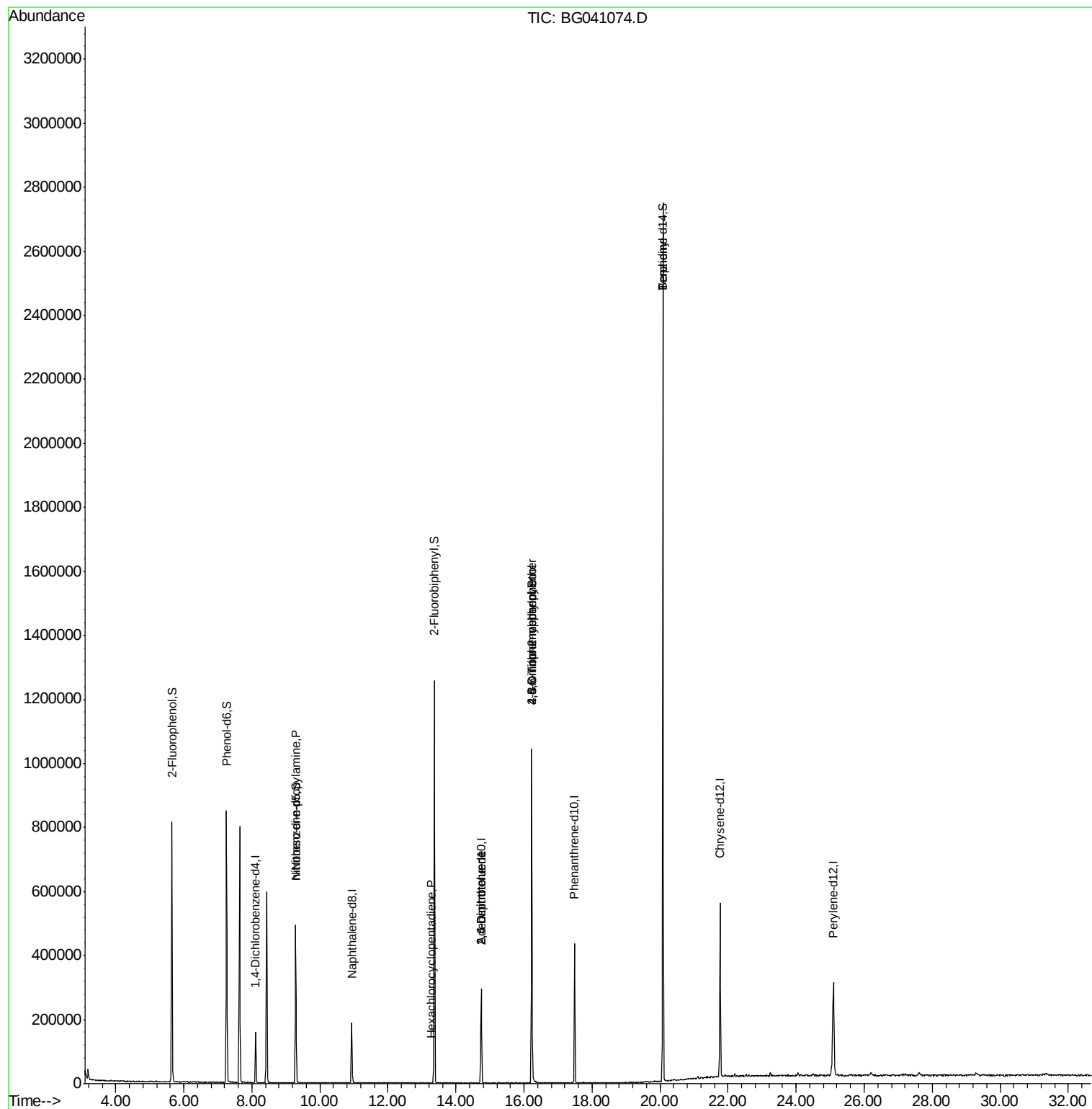
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.11  | 152  | 42369    | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 10.94 | 136  | 155360   | 20.00  | ng    | -0.02    |
| 39) Acenaphthene-d10           | 14.74 | 164  | 107738   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10           | 17.49 | 188  | 278177   | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12               | 21.76 | 240  | 324195   | 20.00  | ng    | -0.02    |
| 87) Perylene-d12               | 25.09 | 264  | 347269   | 20.00  | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.65  | 112  | 310835   | 132.29 | ng    | -0.01    |
| 7) Phenol-d6                   | 7.26  | 99   | 429795   | 118.44 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 9.29  | 82   | 297172   | 84.92  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 16.23 | 330  | 197005   | 123.17 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl           | 13.36 | 172  | 651336   | 87.06  | ng    | -0.02    |
| 79) Terphenyl-d14              | 20.08 | 244  | 1285856  | 84.18  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.29  | 70   | 42995    | 15.396 | ng    | # 74     |
| 41) Hexachlorocyclopentadiene  | 13.26 | 237  | 59       | 8.258  | ng    | # 26     |
| 51) 2,6-Dinitrotoluene         | 14.74 | 165  | 13483    | 6.857  | ng    | # 18     |
| 57) 2,4-Dinitrotoluene         | 14.74 | 165  | 13483    | 4.854  | ng    | # 20     |
| 65) 4,6-Dinitro-2-methylphenol | 16.22 | 198  | 687      | 8.968  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether  | 16.23 | 248  | 14440    | 3.846  | ng    | # 1      |
| 77) Benzidine                  | 20.08 | 184  | 21506    | 2.781  | ng    | # 91     |

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

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BNA\_G  
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PB120290BL

Quant Time: Jun 06 04:22:54 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG052919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 29 18:39:57 2019  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.11 min Scan# 855

Delta R.T. -0.02 min

Lab File: BG041074.D

Acq: 5 Jun 2019 16:20

Instrument :

BNA\_G

ClientSampleId :

PB120290BL

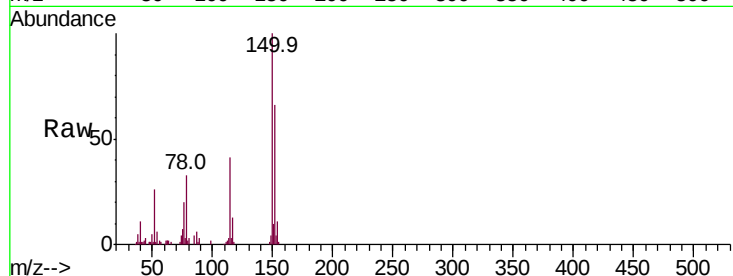
Tot Ion:152 Resp: 42369

Ion Ratio Lower Upper

152 100

150 151.2 120.6 180.8

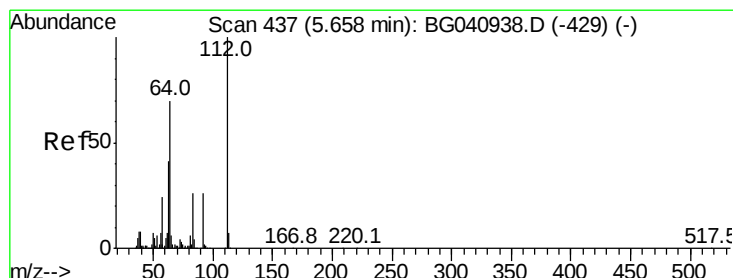
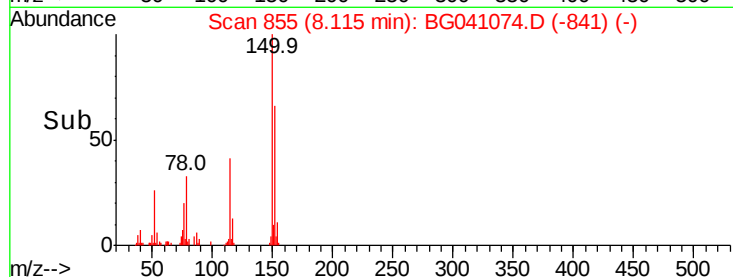
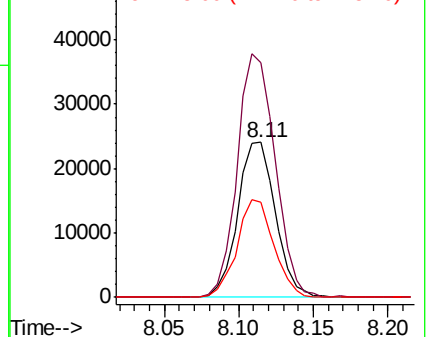
115 61.6 45.1 67.7



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: 132.290 ng

RT: 5.65 min Scan# 435

Delta R.T. -0.01 min

Lab File: BG041074.D

Acq: 5 Jun 2019 16:20

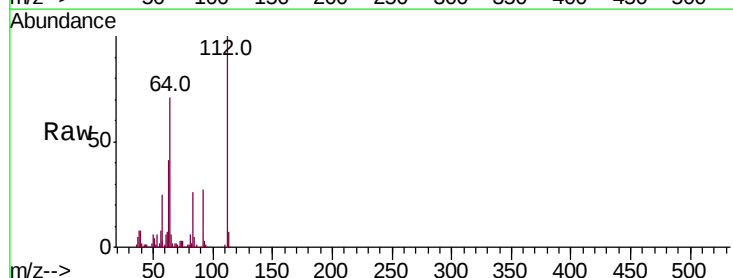
Tgt Ion:112 Resp: 310835

Ion Ratio Lower Upper

112 100

64 70.9 56.2 84.2

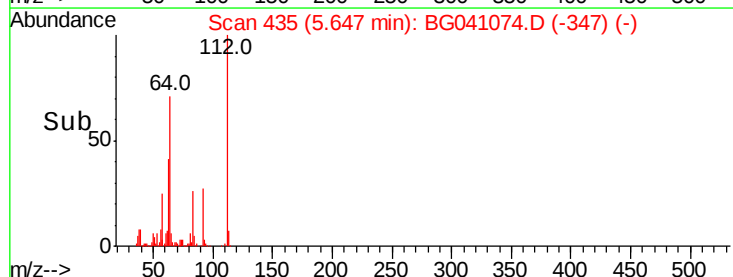
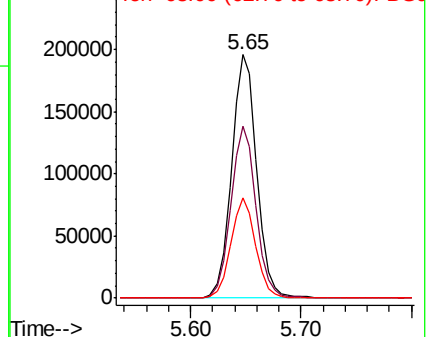
63 41.2 32.8 49.2

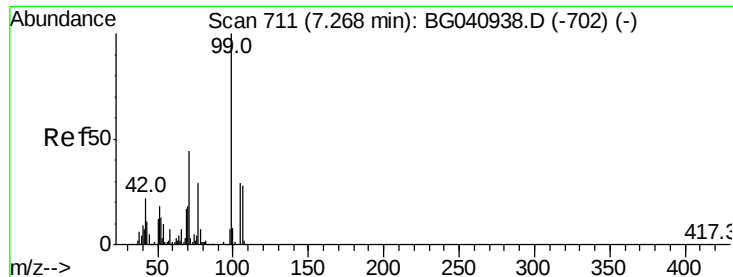


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG0

Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 118.441 ng

RT: 7.26 min Scan# 709

Delta R.T. -0.01 min

Lab File: BG041074.D

Acq: 5 Jun 2019 16:20

Instrument :

BNA\_G

ClientSampleId :

PB120290BL

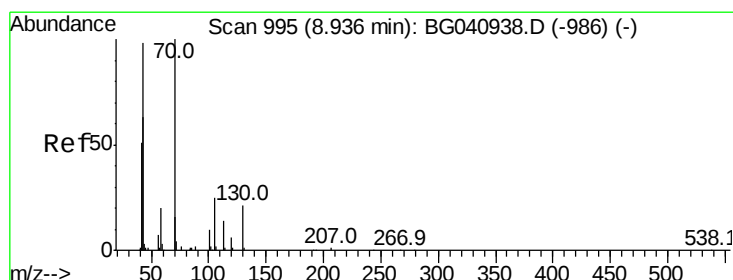
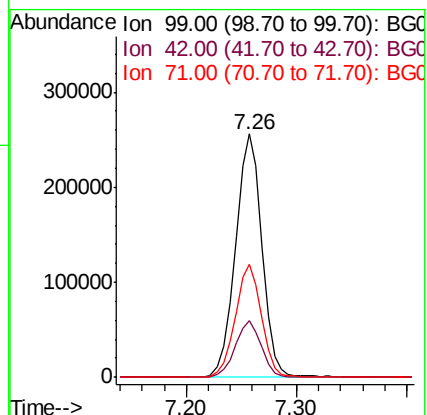
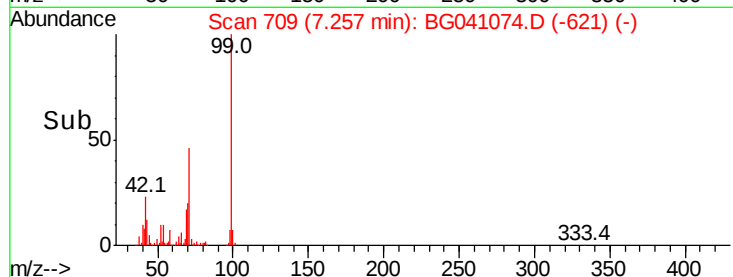
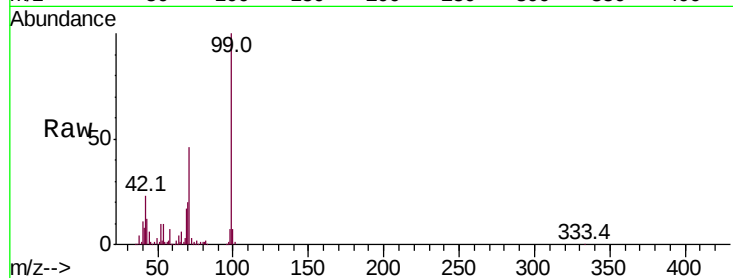
Tot Ion: 99 Resp: 429795

Ion Ratio Lower Upper

99 100

42 23.2 17.9 26.9

71 46.4 35.4 53.0



#19

n-Nitroso-di-n-propylamine

Concen: 15.396 ng

RT: 9.29 min Scan# 1055

Delta R.T. 0.35 min

Lab File: BG041074.D

Acq: 5 Jun 2019 16:20

Tgt Ion: 70 Resp: 42995

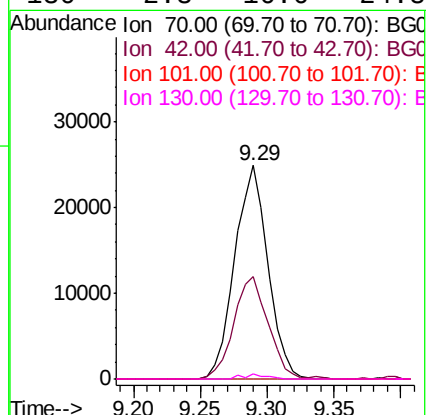
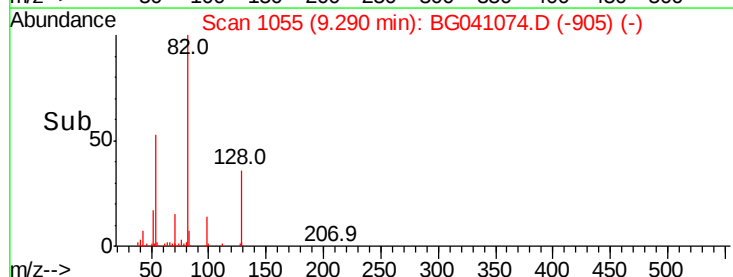
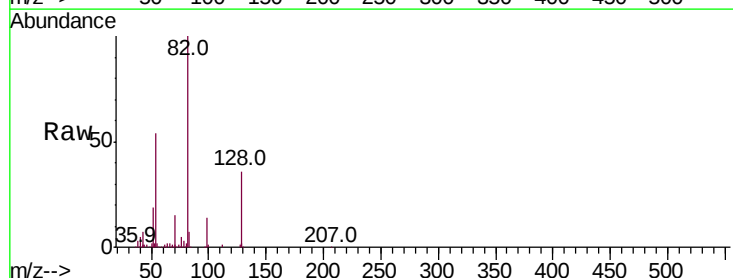
Ion Ratio Lower Upper

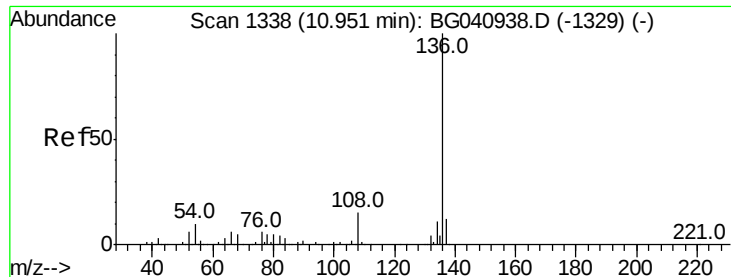
70 100

42 47.9 51.5 77.3#

101 0.0 8.1 12.1#

130 2.3 16.6 24.8#

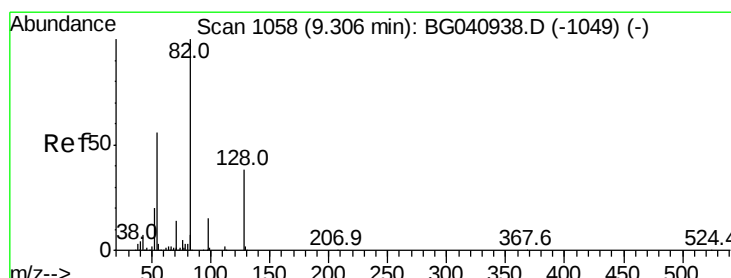
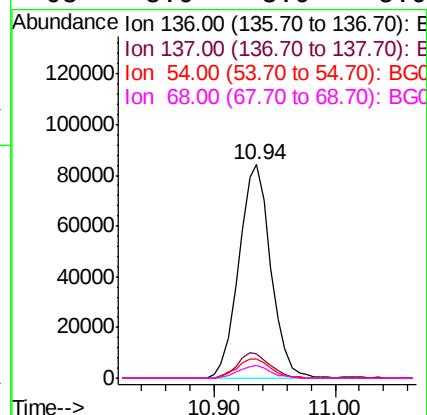
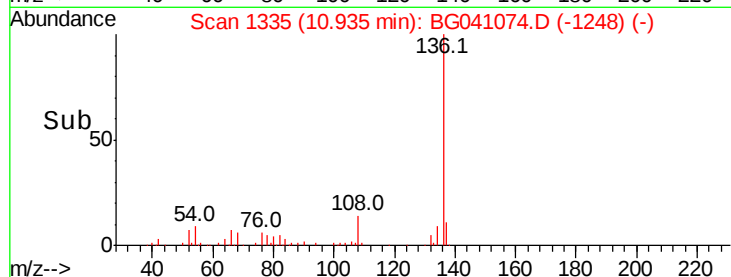
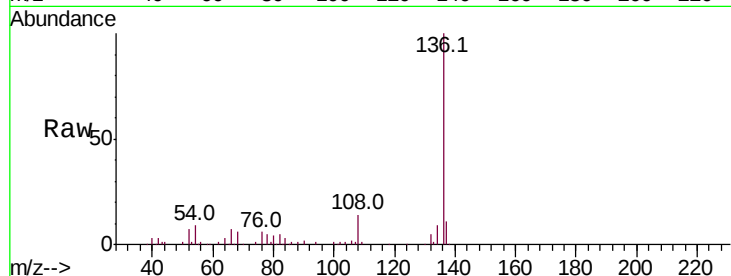




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.94 min Scan# 1335  
Delta R.T. -0.02 min  
Lab File: BG041074.D  
Acq: 5 Jun 2019 16:20

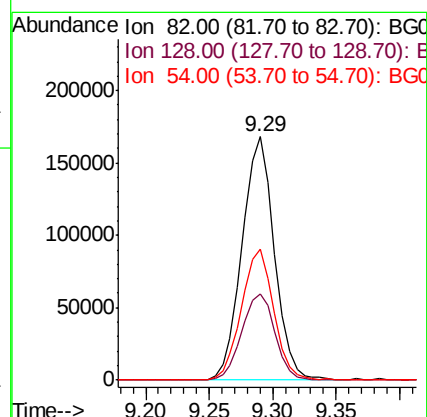
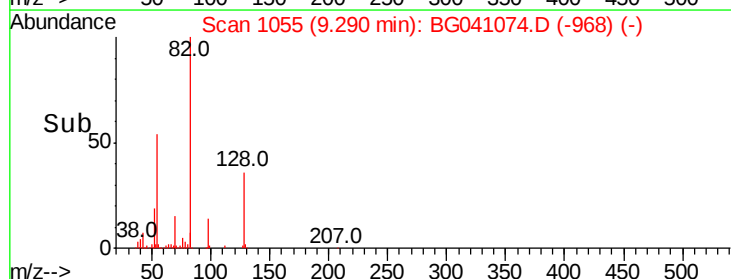
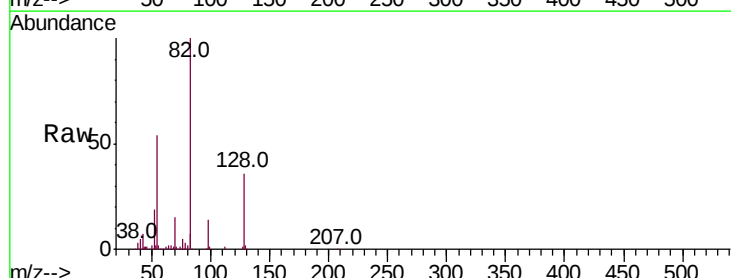
Instrument :  
BNA\_G  
ClientSampleId :  
PB120290BL

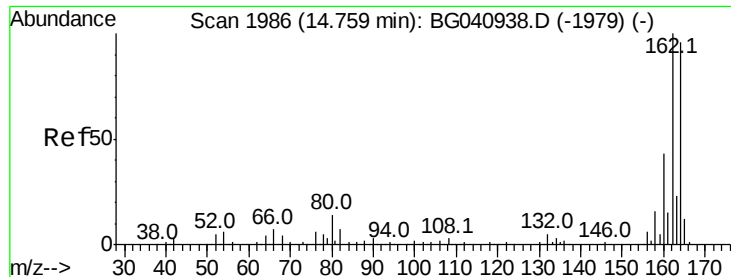
|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 155360   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.3  | 9.5 14.3 |
| 54          | 8.7   | 7.6 11.4 |
| 68          | 5.9   | 3.9 5.9# |



#23  
Nitrobenzene-d5  
Concen: 84.916 ng  
RT: 9.29 min Scan# 1055  
Delta R.T. -0.02 min  
Lab File: BG041074.D  
Acq: 5 Jun 2019 16:20

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 297172    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 35.6  | 30.5 45.7 |
| 54          | 53.6  | 44.6 66.8 |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.74 min Scan# 1983

Delta R.T. -0.02 min

Lab File: BG041074.D

Acq: 5 Jun 2019 16:20

Instrument :

BNA\_G

ClientSampleId :

PB120290BL

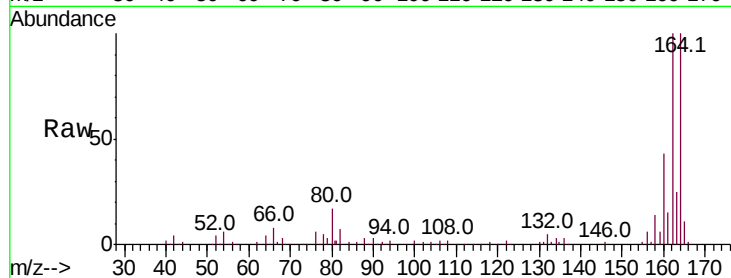
Tot Ion:164 Resp: 107738

Ion Ratio Lower Upper

164 100

162 100.1 83.0 124.4

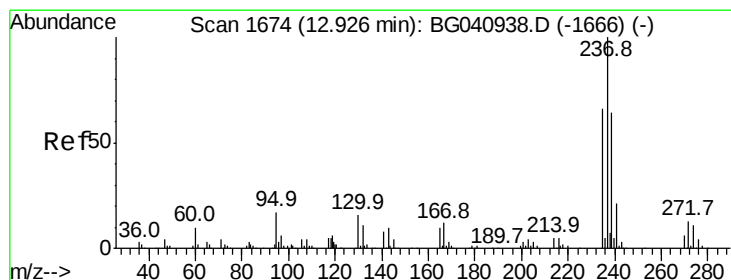
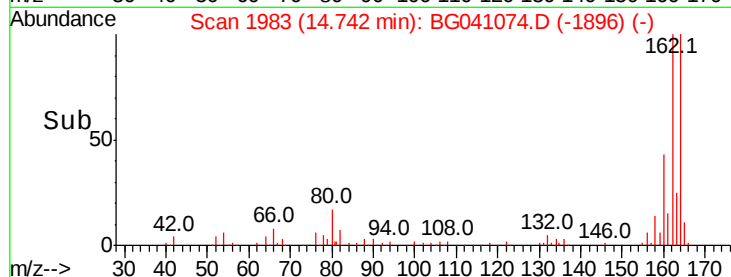
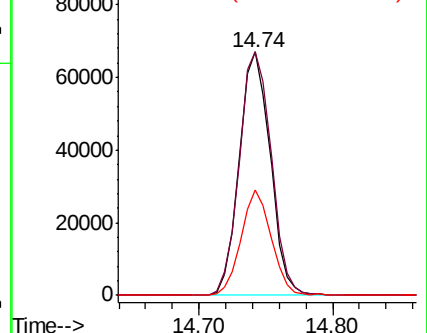
160 43.3 35.6 53.4



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



#41

Hexachlorocyclopentadiene

Concen: 8.258 ng

RT: 13.26 min Scan# 1731

Delta R.T. 0.34 min

Lab File: BG041074.D

Acq: 5 Jun 2019 16:20

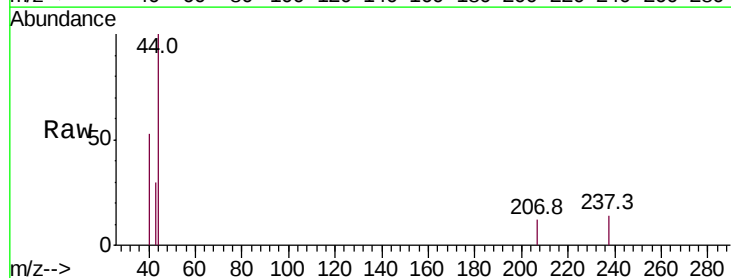
Tgt Ion:237 Resp: 59

Ion Ratio Lower Upper

237 100

235 0.0 45.5 85.5#

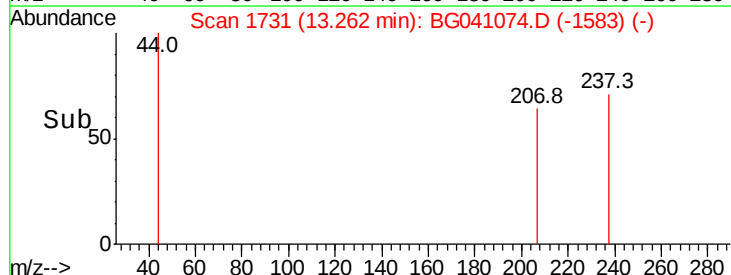
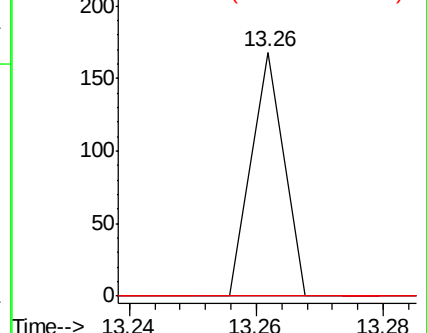
272 0.0 0.0 32.9

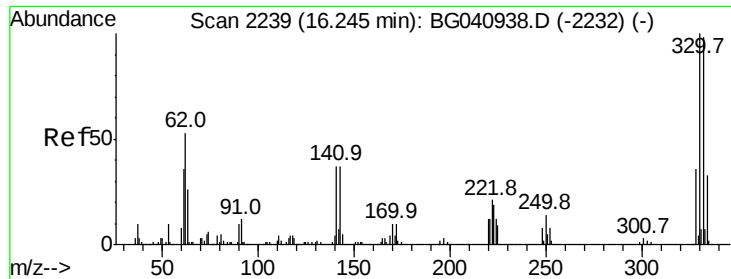


Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E

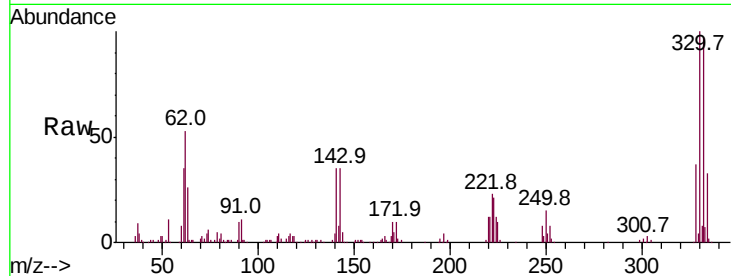




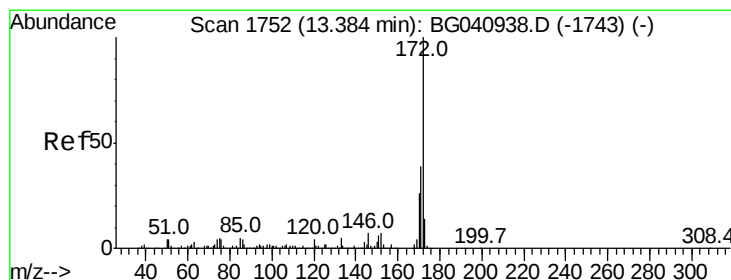
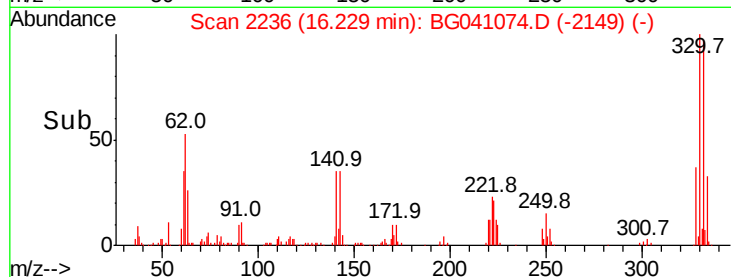
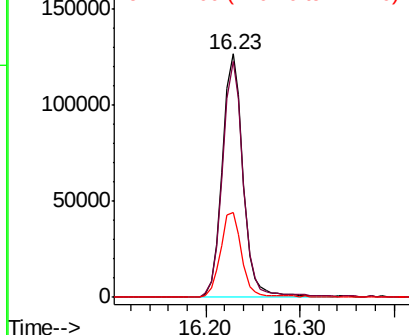
#42  
 2,4,6-Tribromophenol  
 Concen: 123.171 ng  
 RT: 16.23 min Scan# 2236  
 Delta R.T. -0.02 min  
 Lab File: BG041074.D  
 Acq: 5 Jun 2019 16:20

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB120290BL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.4  | 78.5  | 117.7 |
| 141     | 35.9  | 28.7  | 43.1  |

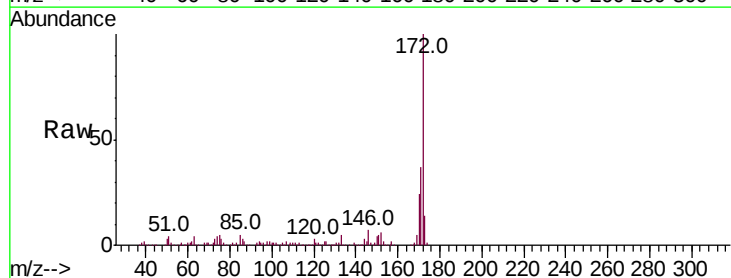


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

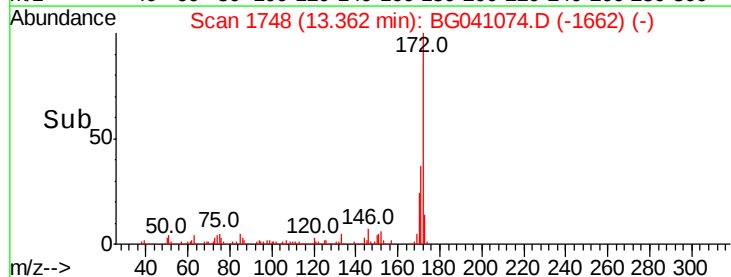
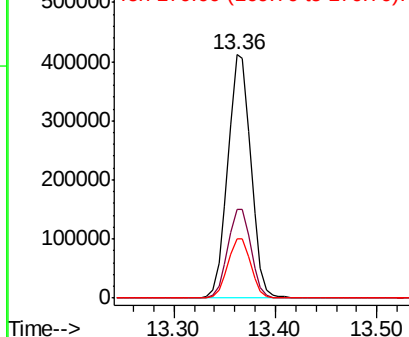


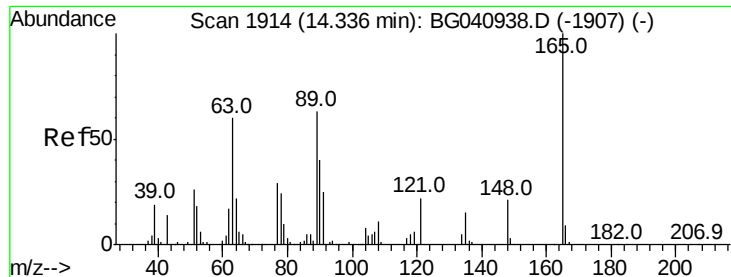
#45  
 2-Fluorobiphenyl  
 Concen: 87.062 ng  
 RT: 13.36 min Scan# 1748  
 Delta R.T. -0.02 min  
 Lab File: BG041074.D  
 Acq: 5 Jun 2019 16:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.6  | 31.1  | 46.7  |
| 170     | 24.4  | 20.5  | 30.7  |



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

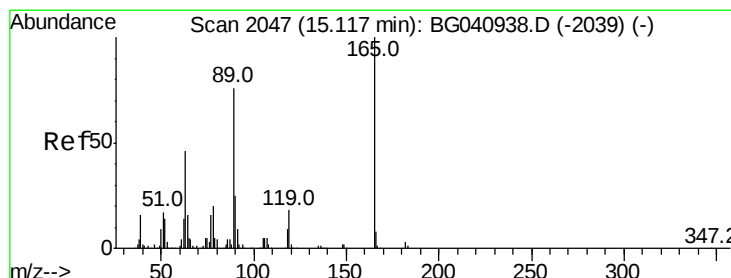
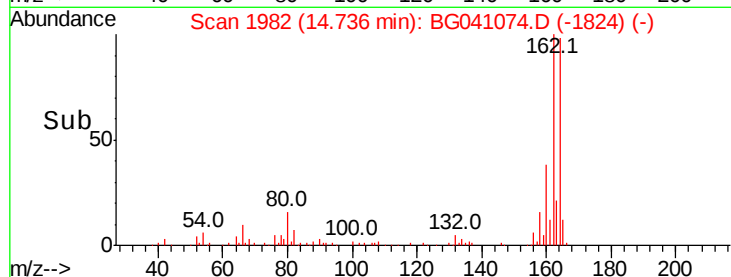
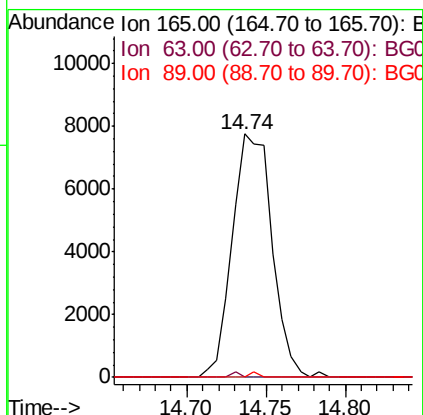
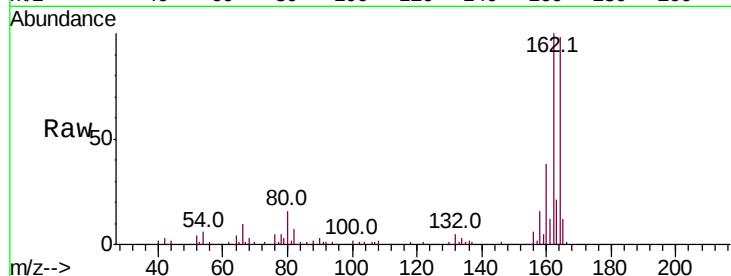




#51  
 2,6-Dinitrotoluene  
 Concen: 6.857 ng  
 RT: 14.74 min Scan# 1982  
 Delta R.T. 0.40 min  
 Lab File: BG041074.D  
 Acq: 5 Jun 2019 16:20

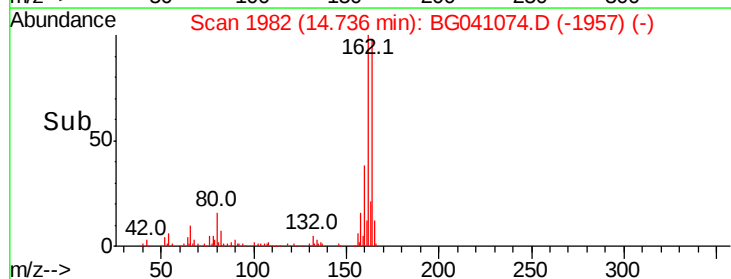
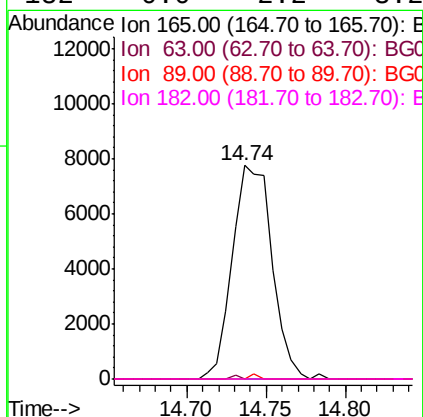
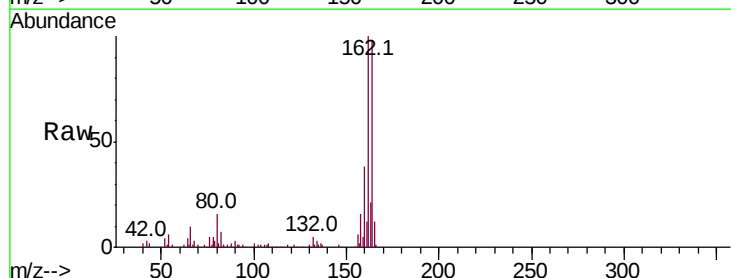
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB120290BL

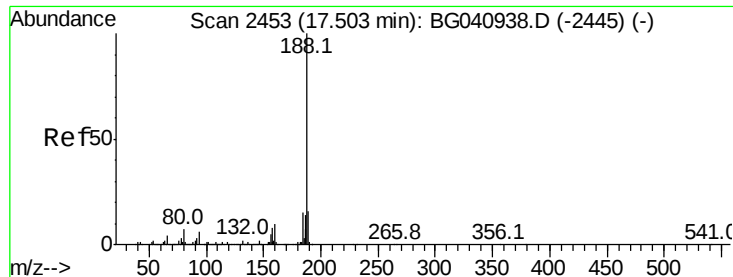
Tot Ion:165 Resp: 13483  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 53.6 80.4#  
 89 0.0 50.4 75.6#



#57  
 2,4-Dinitrotoluene  
 Concen: 4.854 ng  
 RT: 14.74 min Scan# 1982  
 Delta R.T. -0.38 min  
 Lab File: BG041074.D  
 Acq: 5 Jun 2019 16:20

Tgt Ion:165 Resp: 13483  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 37.3 55.9#  
 89 0.0 61.0 91.6#  
 182 0.0 2.2 3.2#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.49 min Scan# 2450

Delta R.T. -0.02 min

Lab File: BG041074.D

Acq: 5 Jun 2019 16:20

Instrument :

BNA\_G

ClientSampleId :

PB120290BL

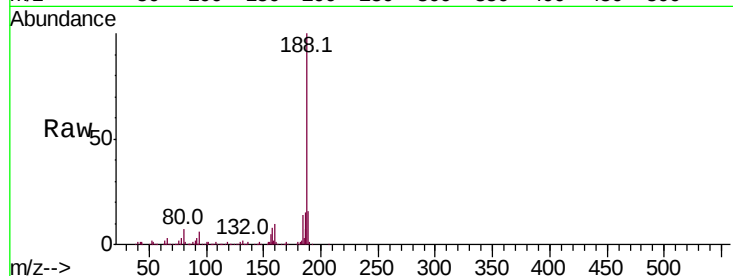
Tot Ion:188 Resp: 278177

Ion Ratio Lower Upper

188 100

94 5.6 4.7 7.1

80 6.6 5.8 8.8

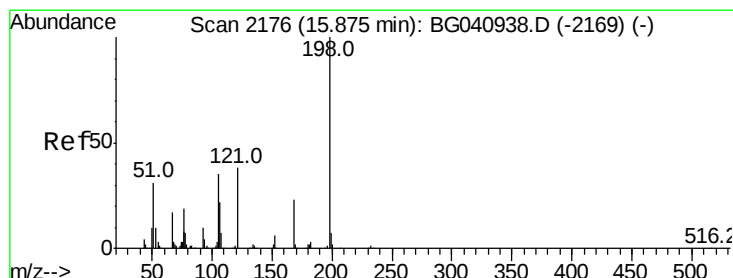
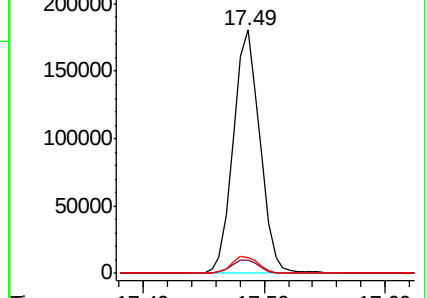
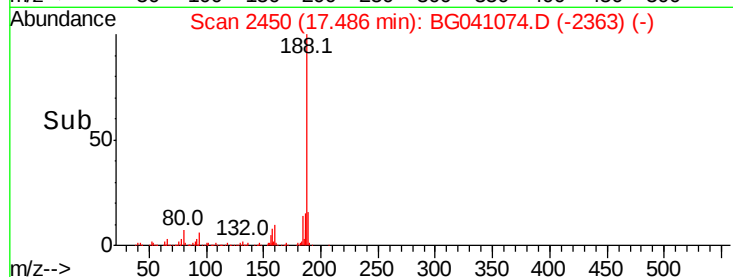


Abundance Ion 188.00 (187.70 to 188.70): E

250000 Ion 94.00 (93.70 to 94.70): BG

Ion 80.00 (79.70 to 80.70): BG

17.49



#65

4,6-Dinitro-2-methylphenol

Concen: 8.968 ng

RT: 16.22 min Scan# 2235

Delta R.T. 0.35 min

Lab File: BG041074.D

Acq: 5 Jun 2019 16:20

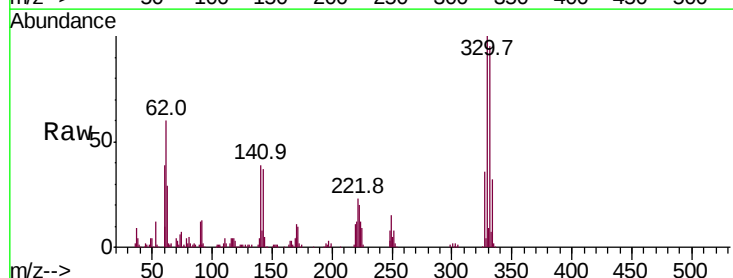
Tgt Ion:198 Resp: 687

Ion Ratio Lower Upper

198 100

51 66.4 21.6 61.6#

105 163.0 17.5 57.5#

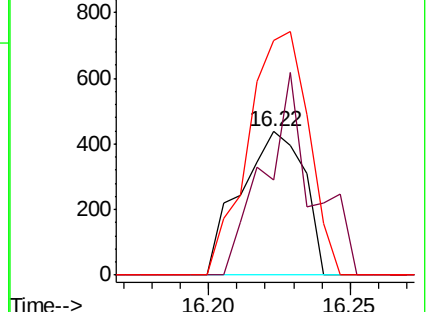
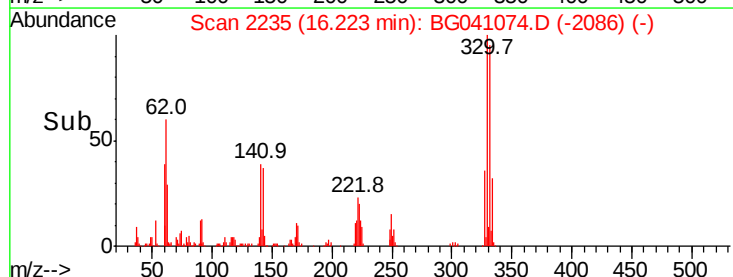


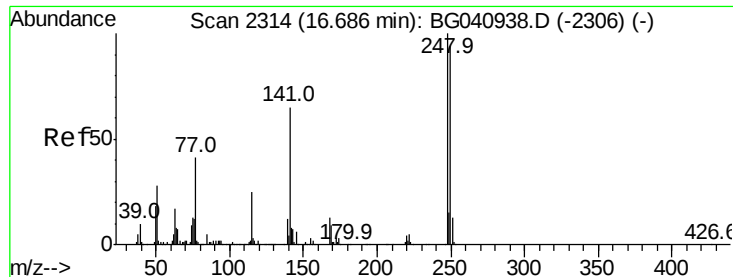
Abundance Ion 198.00 (197.70 to 198.70): E

1000 Ion 51.00 (50.70 to 51.70): BG

Ion 105.00 (104.70 to 105.70): E

16.22

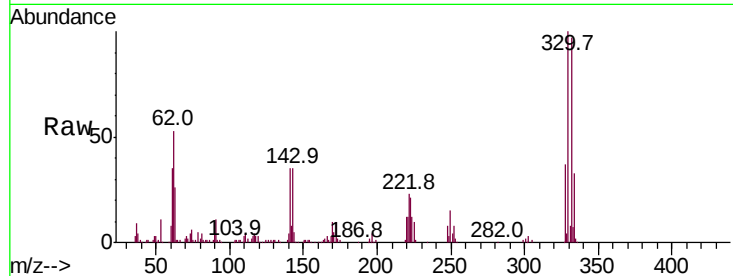




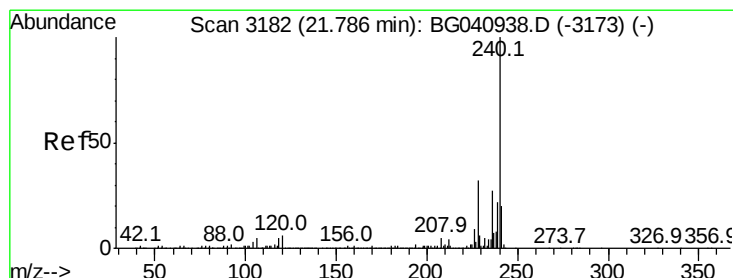
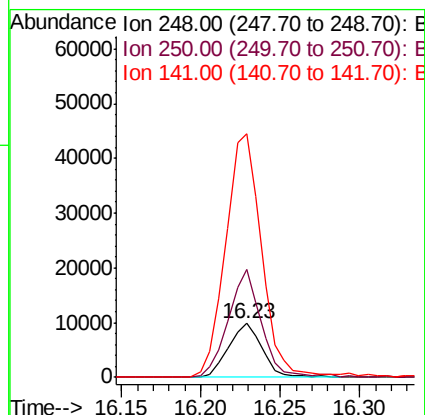
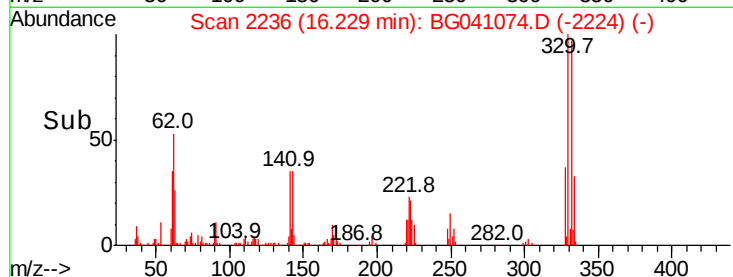
#67  
4-Bromophenyl-phenylether  
Concen: 3.846 ng  
RT: 16.23 min Scan# 2236  
Delta R.T. -0.46 min  
Lab File: BG041074.D  
Acq: 5 Jun 2019 16:20

Instrument :  
BNA\_G  
ClientSampleId :  
PB120290BL

Tot Ion:248 Resp: 14440  
Ion Ratio Lower Upper  
248 100  
250 200.0 75.0 112.4#  
141 453.6 52.4 78.6#

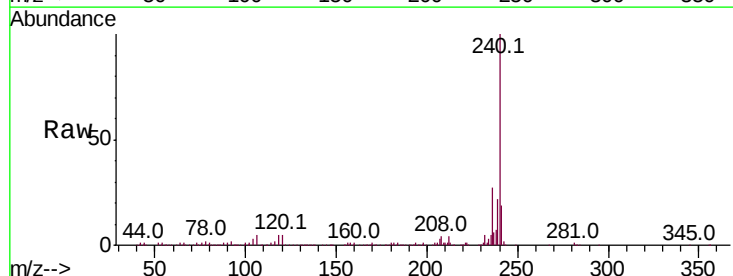


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

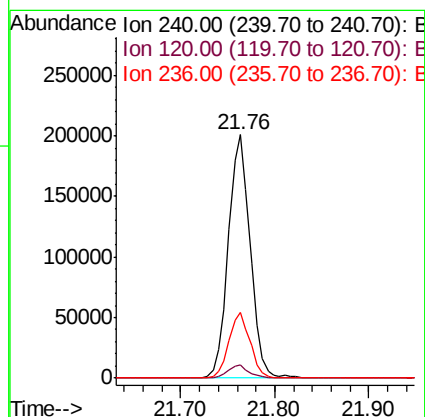
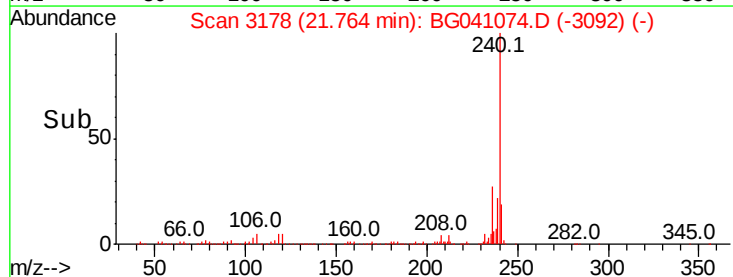


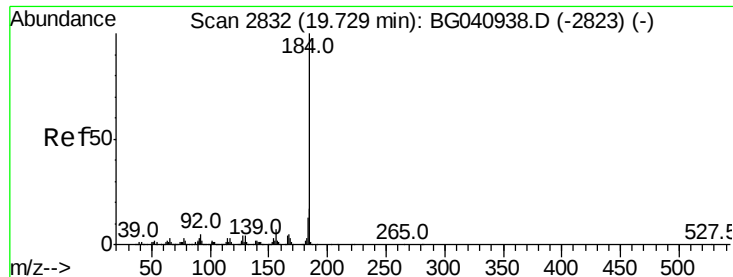
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.76 min Scan# 3178  
Delta R.T. -0.02 min  
Lab File: BG041074.D  
Acq: 5 Jun 2019 16:20

Tgt Ion:240 Resp: 324195  
Ion Ratio Lower Upper  
240 100  
120 5.4 4.5 6.7  
236 27.0 21.3 31.9



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





#77

Benzidine

Concen: 2.781 ng

RT: 20.08 min Scan# 2892

Delta R.T. 0.35 min

Lab File: BG041074.D

Acq: 5 Jun 2019 16:20

Instrument :

BNA\_G

ClientSampleId :

PB120290BL

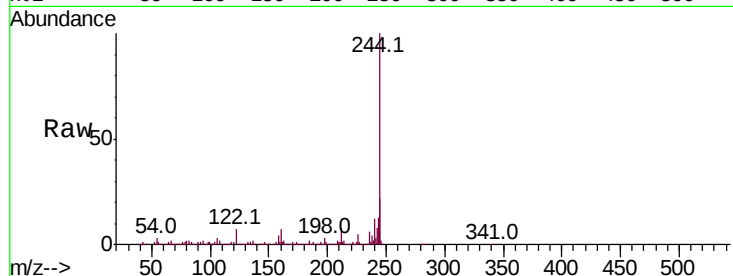
Tot Ion:184 Resp: 21506

Ion Ratio Lower Upper

184 100

185 13.3 13.3 19.9

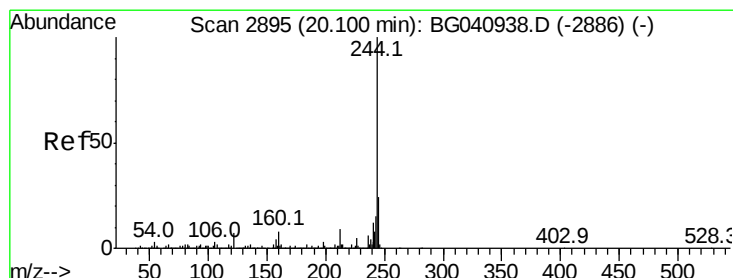
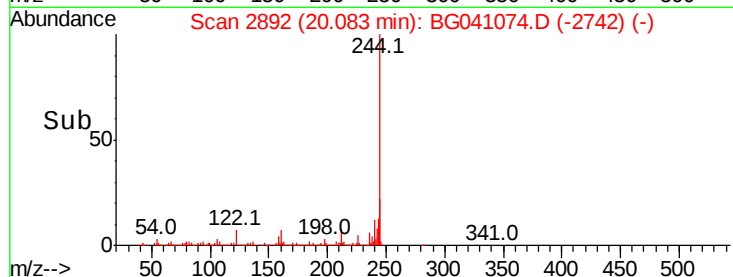
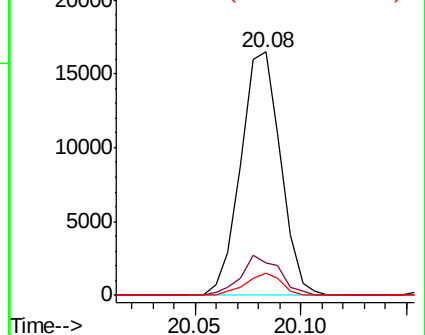
183 9.2 10.7 16.1#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#79

Terphenyl-d14

Concen: 84.179 ng

RT: 20.08 min Scan# 2892

Delta R.T. -0.02 min

Lab File: BG041074.D

Acq: 5 Jun 2019 16:20

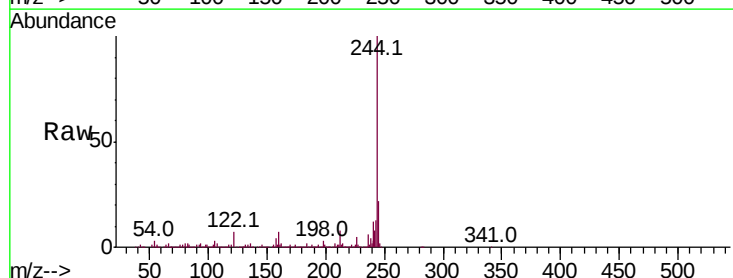
Tgt Ion:244 Resp: 1285856

Ion Ratio Lower Upper

244 100

212 8.4 7.0 10.4

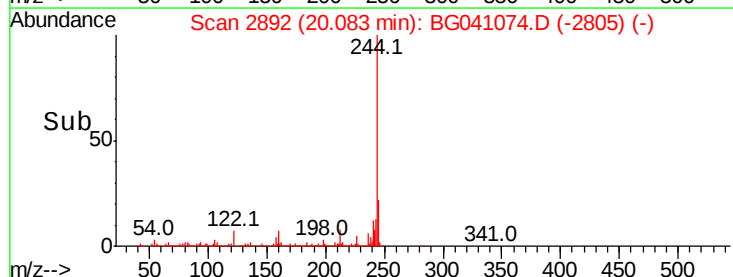
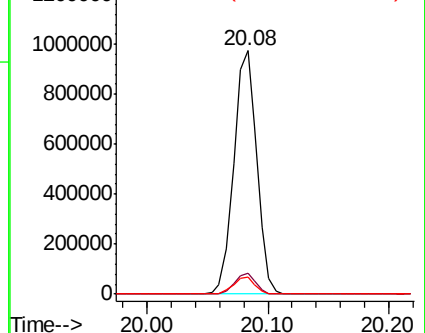
122 7.1 5.4 8.0

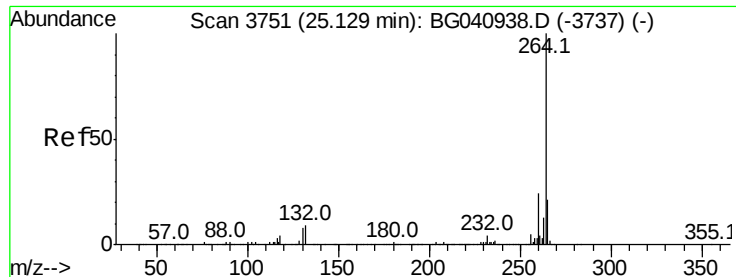


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 25.09 min Scan# 3745  
Delta R.T. -0.03 min  
Lab File: BG041074.D  
Acq: 5 Jun 2019 16:20

Instrument :  
BNA\_G  
ClientSampleId :  
PB120290BL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.7  | 19.0  | 28.4  |
| 265     | 22.5  | 17.0  | 25.4  |

