

Data File : BG042270.D  
Acq On : 16 Aug 2019 21:47  
Operator : HP/JU  
Sample : K4231-05  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
REACTOR-3-B-(0-3)

Quant Time: Aug 17 00:01:28 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG072719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jul 31 08:57:26 2019  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.01  | 152  | 58122    | 20.00 | ng    | -0.03    |
| 21) Naphthalene-d8        | 10.84 | 136  | 218396   | 20.00 | ng    | -0.03    |
| 39) Acenaphthene-d10      | 14.67 | 164  | 156721   | 20.00 | ng    | -0.03    |
| 64) Phenanthrene-d10      | 17.42 | 188  | 382638   | 20.00 | ng    | -0.03    |
| 76) Chrysene-d12          | 21.71 | 240  | 449689   | 20.00 | ng    | -0.03    |
| 87) Perylene-d12          | 24.96 | 264  | 521945   | 20.00 | ng    | -0.05    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.57  | 112  | 386472   | 129.37 | ng    | -0.02    |
| 7) Phenol-d6                | 7.18  | 99   | 464827   | 115.42 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 9.18  | 82   | 319275   | 100.60 | ng    | -0.03    |
| 42) 2,4,6-Tribromophenol    | 16.17 | 330  | 343409   | 192.91 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl        | 13.29 | 172  | 957619   | 107.77 | ng    | -0.03    |
| 79) Terphenyl-d14           | 20.04 | 244  | 1890863  | 96.22  | ng    | -0.03    |

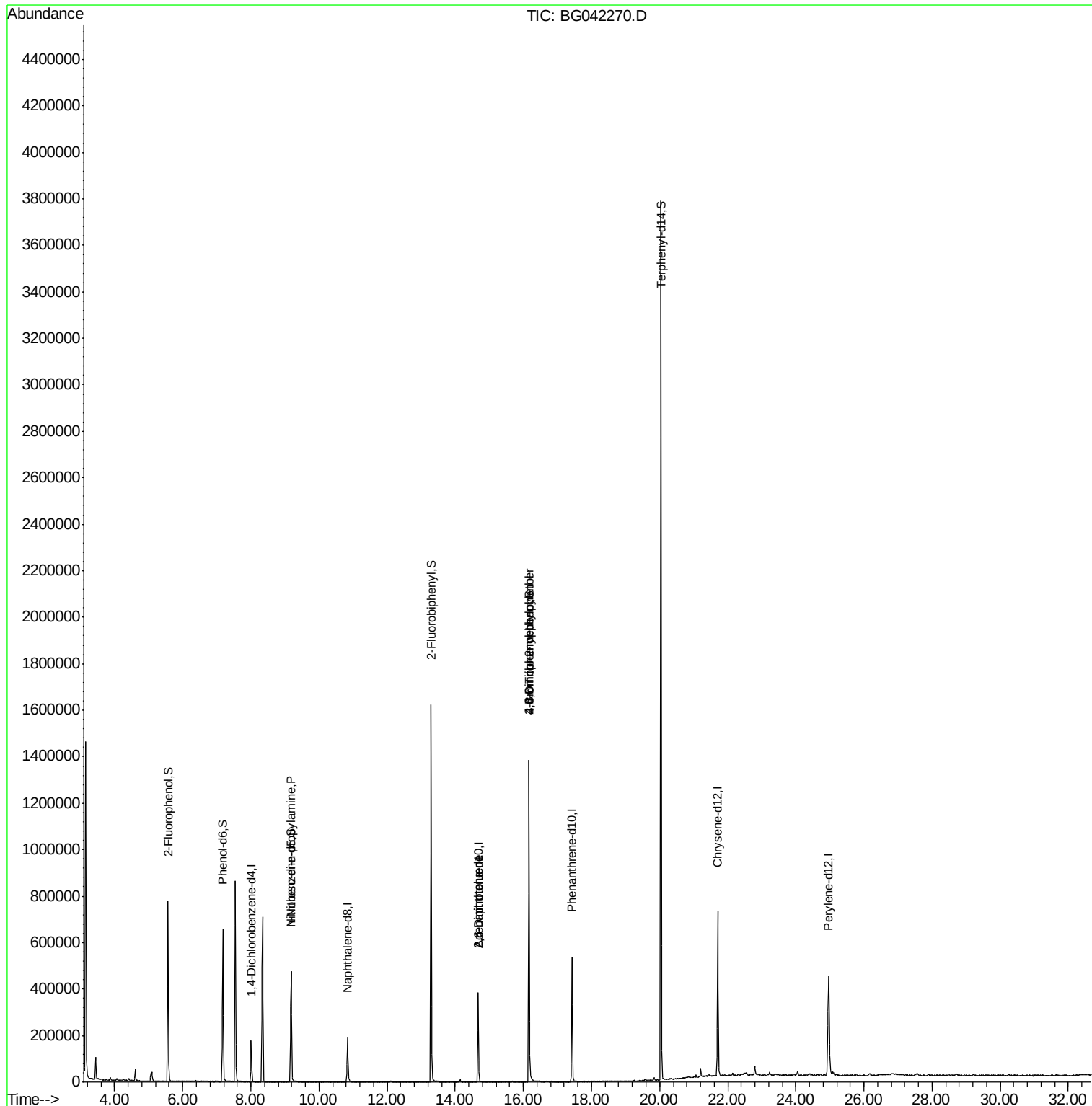
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 9.18  | 70   | 40395    | 13.815 | ng    | # 63   |
| 51) 2,6-Dinitrotoluene         | 14.67 | 165  | 20348    | 9.092  | ng    | # 25   |
| 57) 2,4-Dinitrotoluene         | 14.67 | 165  | 20348    | 6.611  | ng    | # 27   |
| 65) 4,6-Dinitro-2-methylphenol | 16.17 | 198  | 676      | 7.162  | ng    | # 1    |
| 67) 4-Bromophenyl-phenylether  | 16.17 | 248  | 23434    | 4.972  | ng    | # 1    |

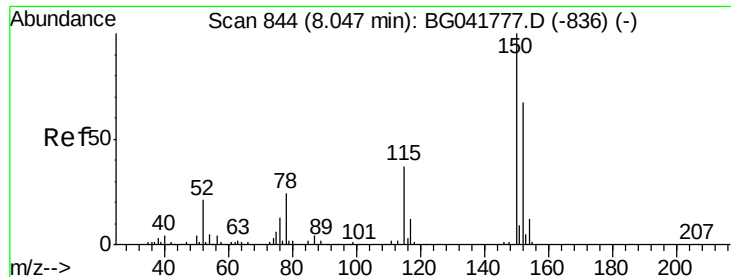
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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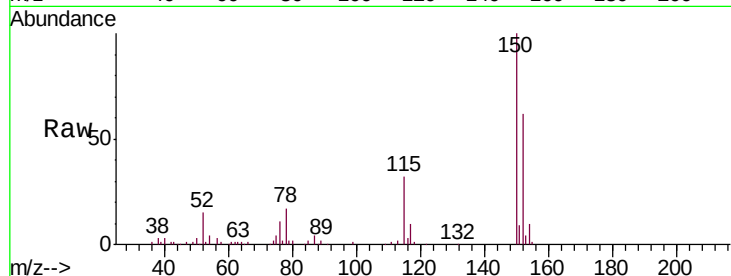


#1

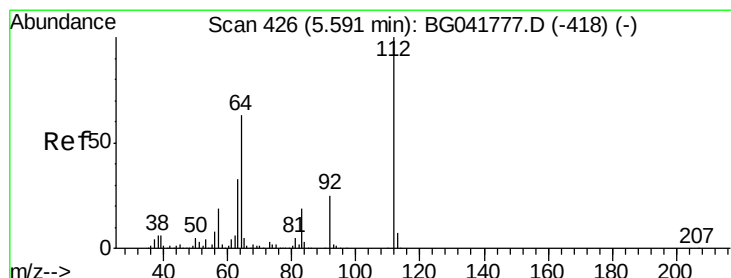
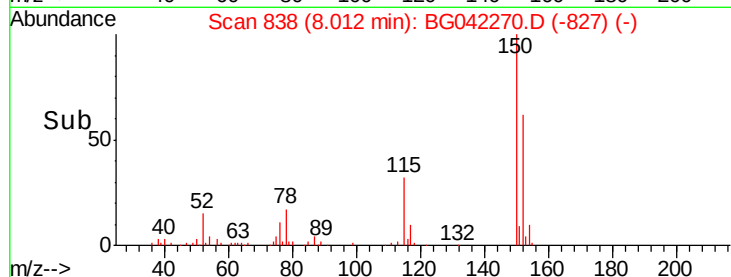
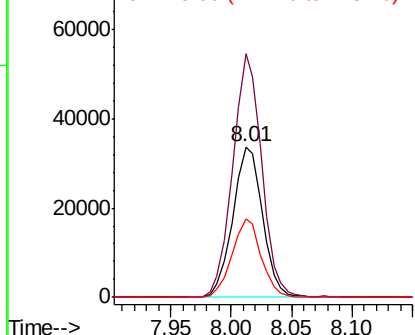
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.01 min Scan# 838  
Delta R.T. -0.03 min  
Lab File: BG042270.D  
Acq: 16 Aug 2019 21:47

Instrument :  
BNA\_G  
ClientSampleId :  
REACTOR-3-B-(0-3)

Tgt Ion:152 Resp: 58122  
Ion Ratio Lower Upper  
152 100  
150 161.9 126.9 190.3  
115 52.1 45.0 67.6



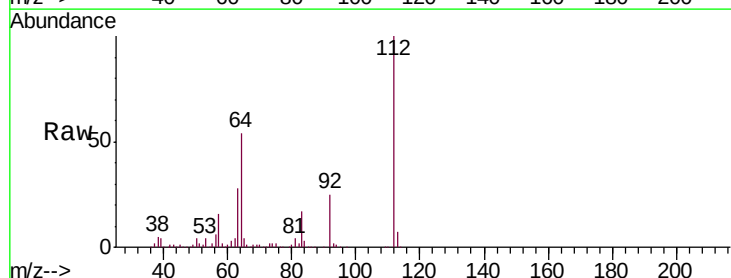
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



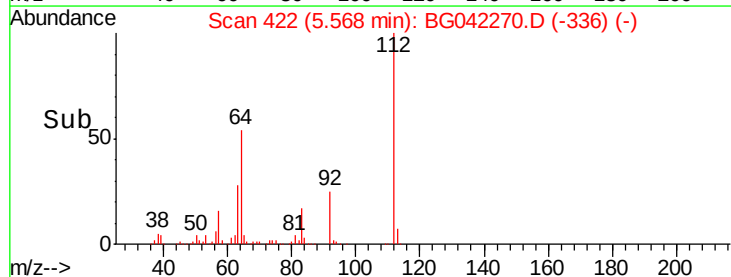
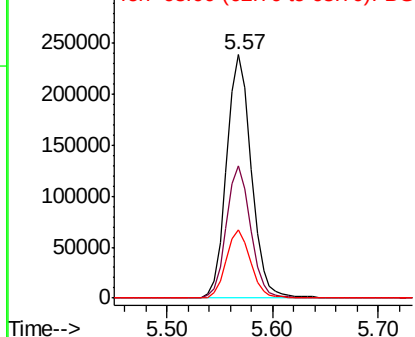
#5

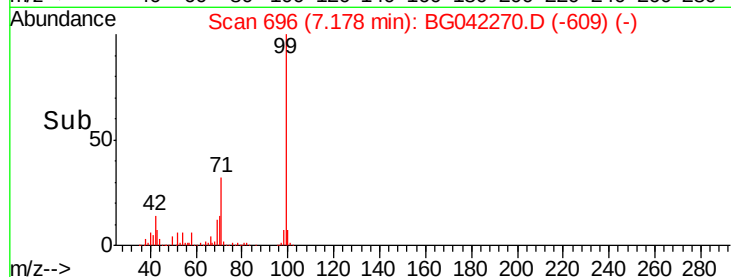
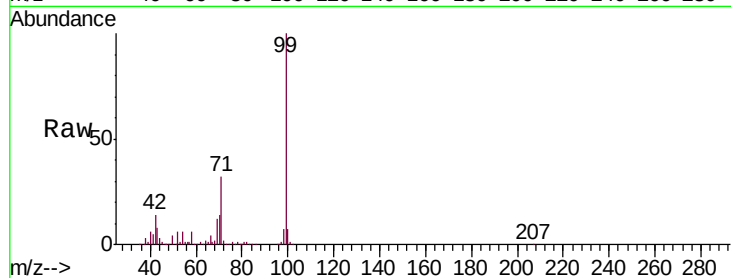
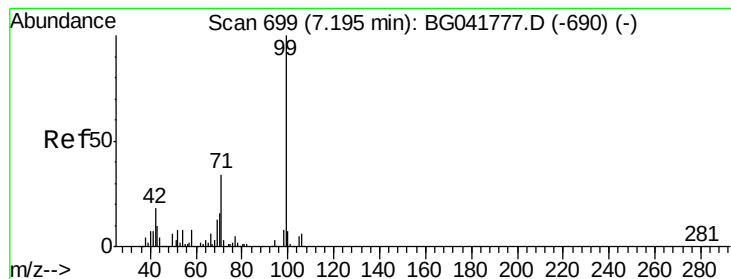
2-Fluorophenol  
Concen: 129.371 ng  
RT: 5.57 min Scan# 422  
Delta R.T. -0.02 min  
Lab File: BG042270.D  
Acq: 16 Aug 2019 21:47

Tgt Ion:112 Resp: 386472  
Ion Ratio Lower Upper  
112 100  
64 54.1 55.4 83.2#  
63 27.8 29.1 43.7#



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: 115.416 ng

RT: 7.18 min Scan# 696

Delta R.T. -0.02 min

Lab File: BG042270.D

Acq: 16 Aug 2019 21:47

Instrument :

BNA\_G

ClientSampleId :

REACTOR-3-B-(0-3)

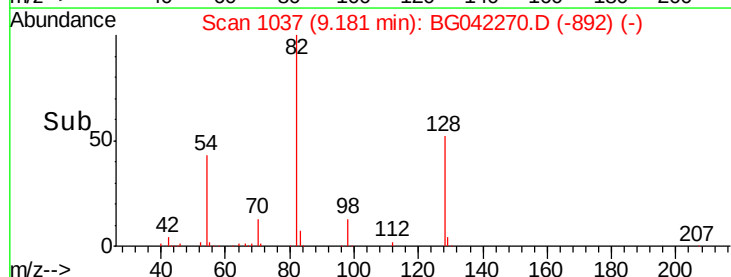
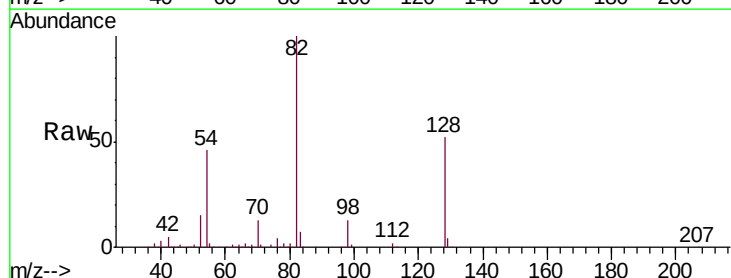
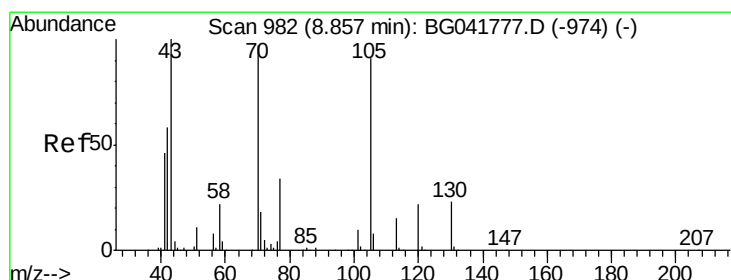
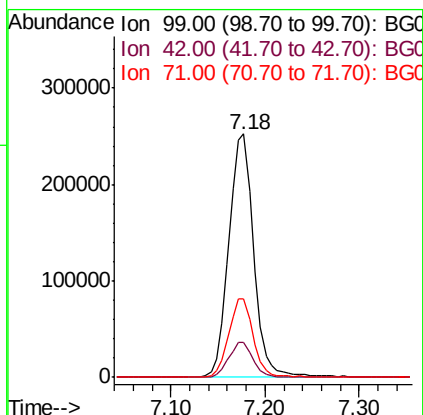
Tgt Ion: 99 Resp: 464827

Ion Ratio Lower Upper

99 100

42 14.3 17.6 26.4#

71 32.0 27.8 41.6



#19

n-Nitroso-di-n-propylamine

Concen: 13.815 ng

RT: 9.18 min Scan# 1037

Delta R.T. 0.32 min

Lab File: BG042270.D

Acq: 16 Aug 2019 21:47

Tgt Ion: 70 Resp: 40395

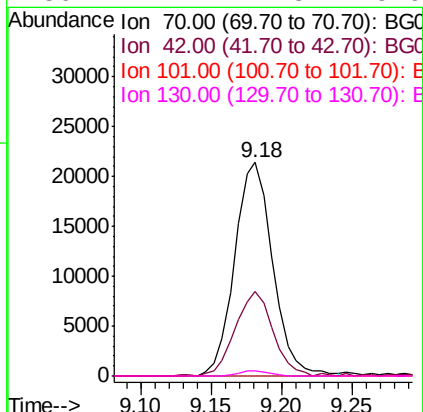
Ion Ratio Lower Upper

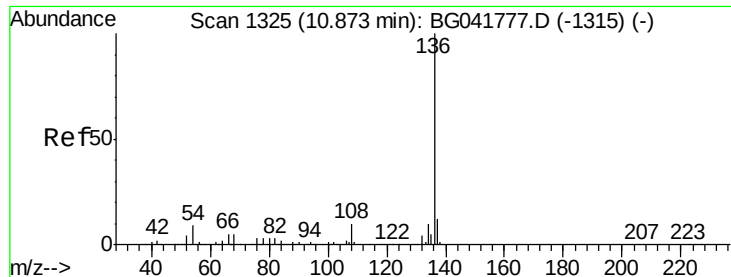
70 100

42 39.4 55.8 83.6#

101 0.0 8.1 12.1#

130 2.4 17.3 25.9#

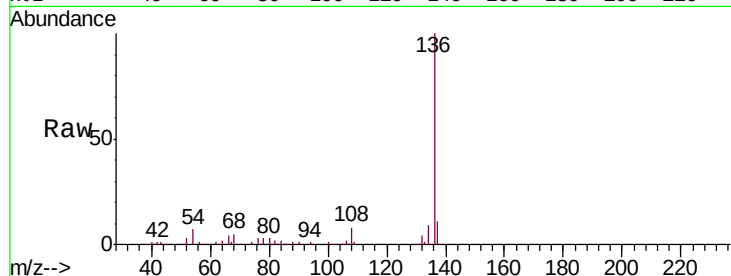




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.84 min Scan# 1319  
Delta R.T. -0.03 min  
Lab File: BG042270.D  
Acq: 16 Aug 2019 21:47

Instrument :  
BNA\_G  
ClientSampleId :  
REACTOR-3-B-(0-3)

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 218396 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.6  | 9.2   | 13.8   |
| 54       | 7.0   | 8.7   | 13.1#  |
| 68       | 4.5   | 5.5   | 8.3#   |



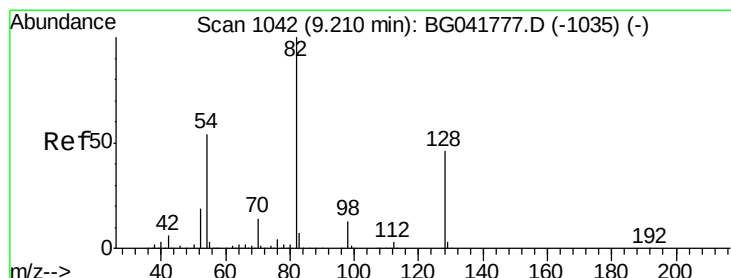
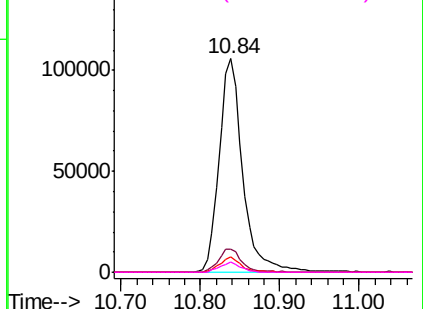
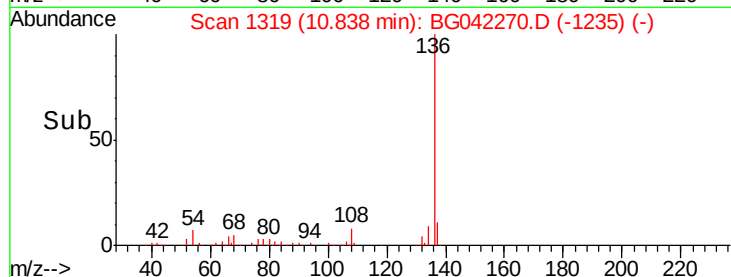
Abundance

Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

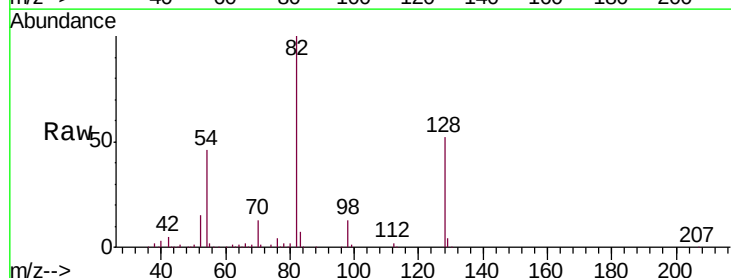
Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC



#23  
Nitrobenzene-d5  
Concen: 100.603 ng  
RT: 9.18 min Scan# 1037  
Delta R.T. -0.03 min  
Lab File: BG042270.D  
Acq: 16 Aug 2019 21:47

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 319275 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 52.2  | 35.1  | 52.7   |
| 54       | 45.8  | 48.7  | 73.1#  |

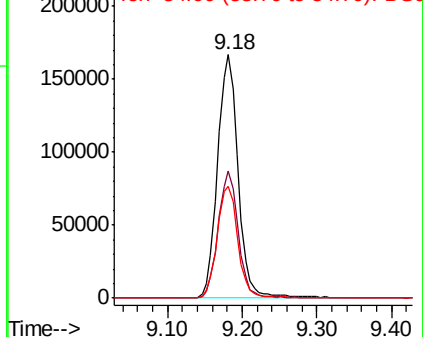
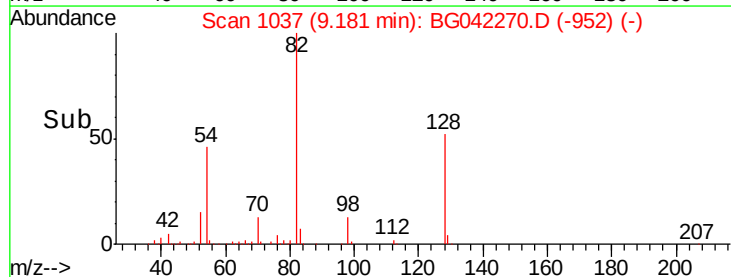


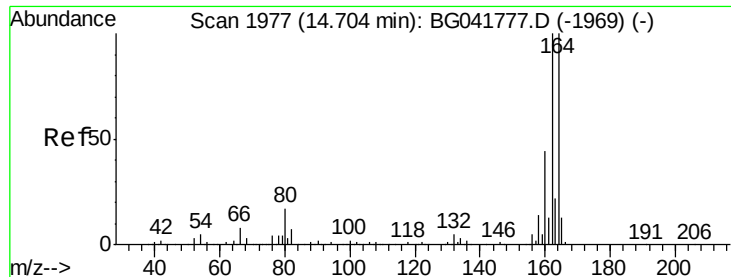
Abundance

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: 14.67 min Scan# 1972

Delta R.T. -0.03 min

Lab File: BG042270.D

Acq: 16 Aug 2019 21:47

Instrument :

BNA\_G

ClientSampleId :

REACTOR-3-B-(0-3)

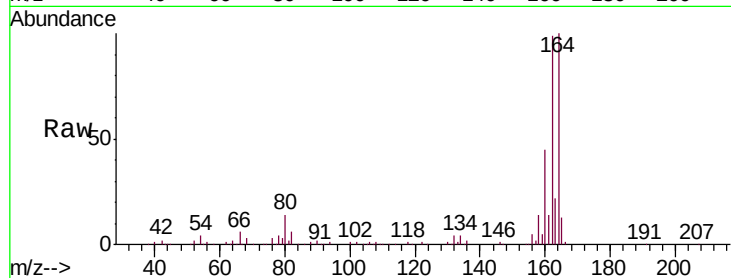
Tgt Ion:164 Resp: 156721

Ion Ratio Lower Upper

164 100

162 98.6 79.6 119.4

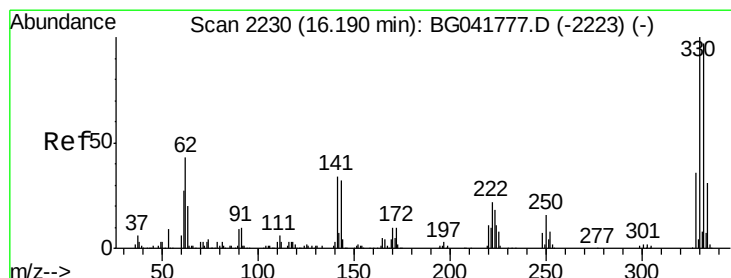
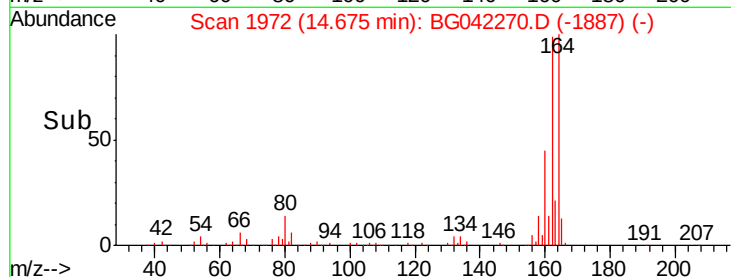
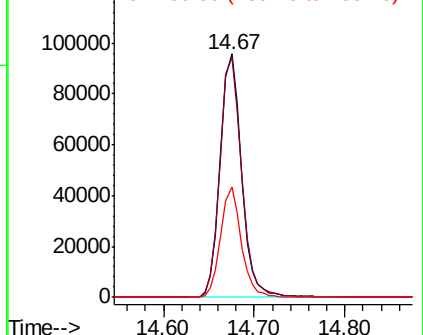
160 45.4 35.4 53.0



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: 192.912 ng

RT: 16.17 min Scan# 2226

Delta R.T. -0.02 min

Lab File: BG042270.D

Acq: 16 Aug 2019 21:47

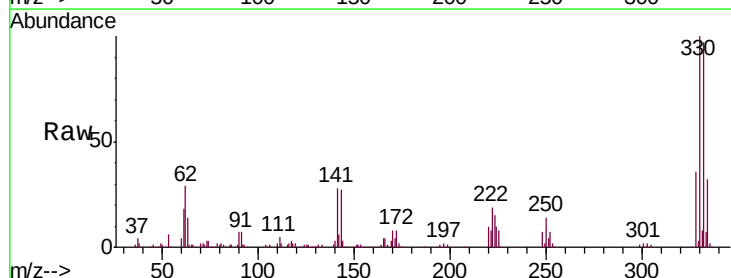
Tgt Ion:330 Resp: 343409

Ion Ratio Lower Upper

330 100

332 96.5 77.4 116.0

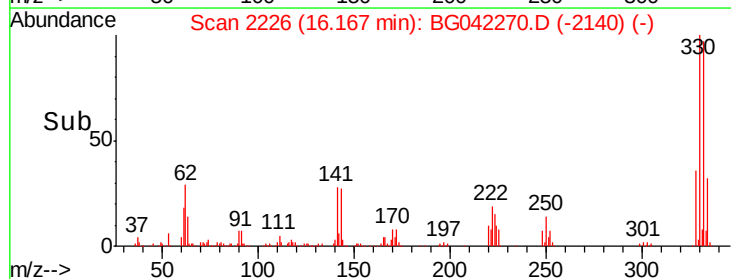
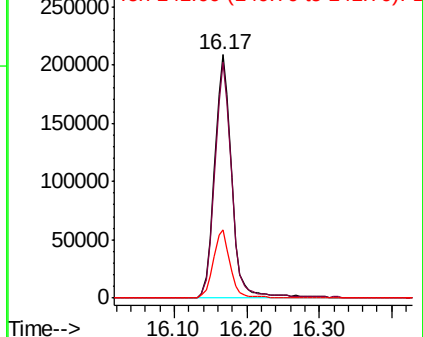
141 27.9 31.9 47.9#

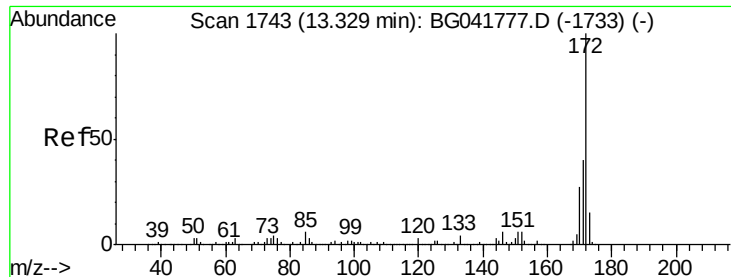


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

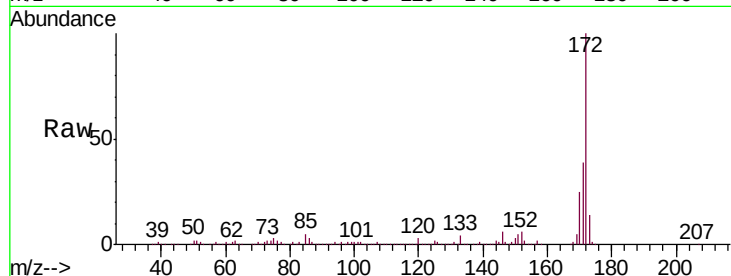




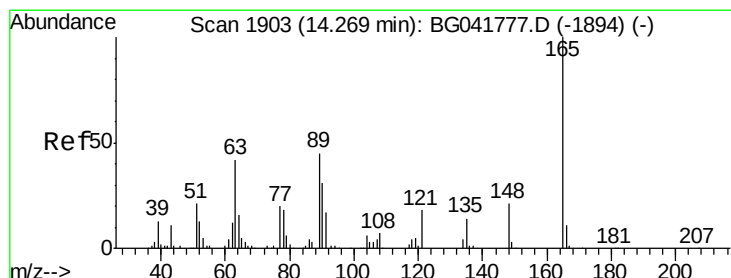
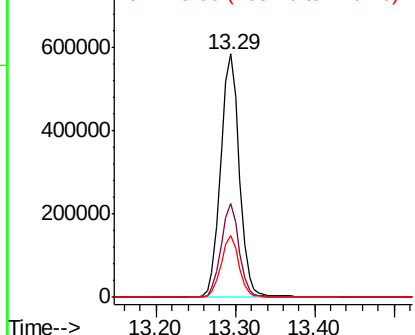
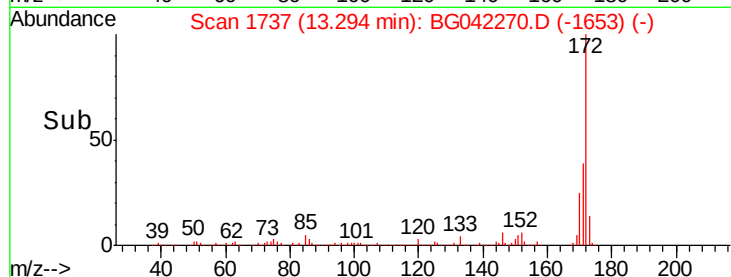
#45  
 2-Fluorobiphenyl  
 Concen: 107.769 ng  
 RT: 13.29 min Scan# 1737  
 Delta R.T. -0.03 min  
 Lab File: BG042270.D  
 Acq: 16 Aug 2019 21:47

Instrument :  
 BNA\_G  
 ClientSampleId :  
 REACTOR-3-B-(0-3)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.5  | 35.0  | 52.4  |
| 170     | 25.2  | 23.5  | 35.3  |

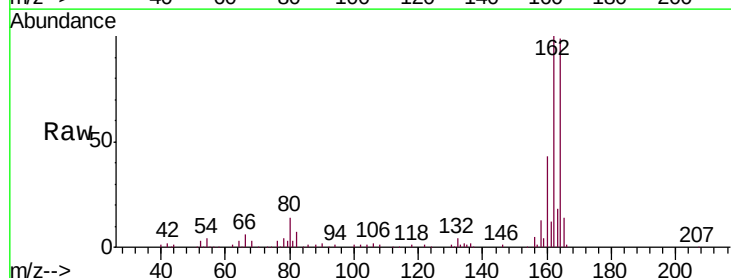


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

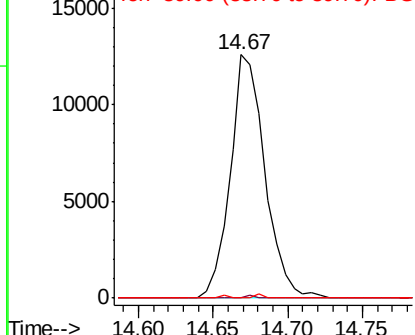
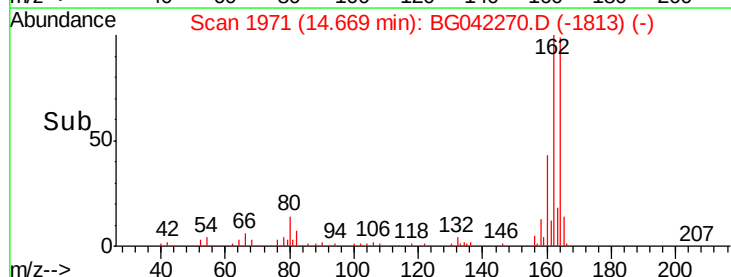


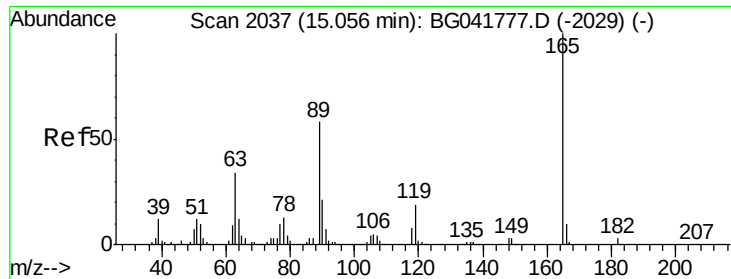
#51  
 2,6-Dinitrotoluene  
 Concen: 9.092 ng  
 RT: 14.67 min Scan# 1971  
 Delta R.T. 0.40 min  
 Lab File: BG042270.D  
 Acq: 16 Aug 2019 21:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 42.4  | 63.6# |
| 89      | 0.0   | 42.1  | 63.1# |



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

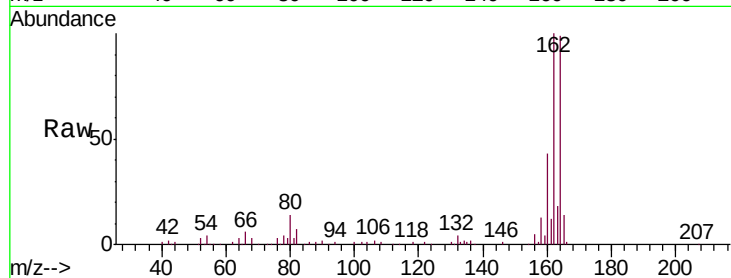




#57  
 2,4-Dinitrotoluene  
 Concen: 6.611 ng  
 RT: 14.67 min Scan# 1971  
 Delta R.T. -0.39 min  
 Lab File: BG042270.D  
 Acq: 16 Aug 2019 21:47

Instrument :  
 BNA\_G  
 ClientSampleId :  
 REACTOR-3-B-(0-3)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 31.7  | 47.5# |
| 89      | 0.0   | 50.2  | 75.4# |
| 182     | 0.0   | 2.6   | 4.0#  |



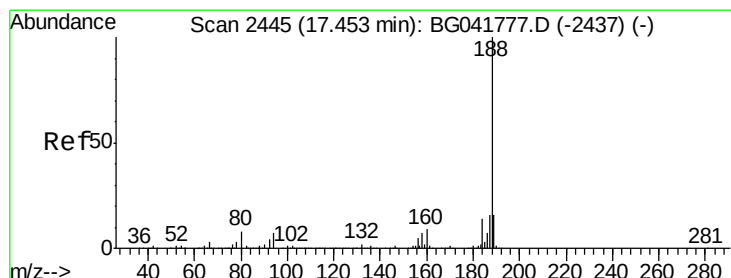
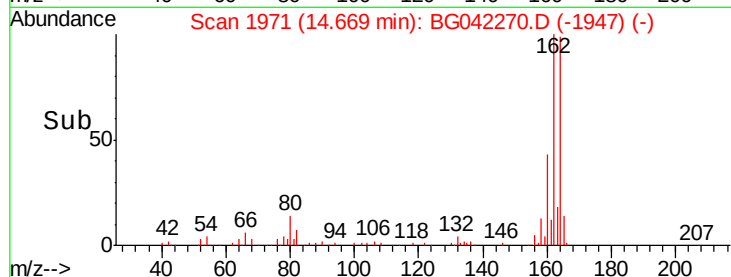
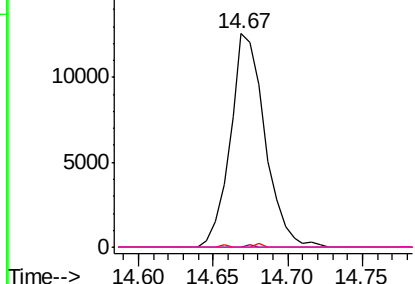
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

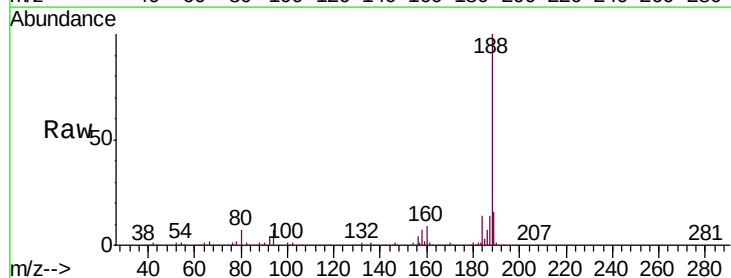
Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.42 min Scan# 2440  
 Delta R.T. -0.03 min  
 Lab File: BG042270.D  
 Acq: 16 Aug 2019 21:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 6.8   | 6.9   | 10.3# |
| 80      | 6.9   | 8.0   | 12.0# |

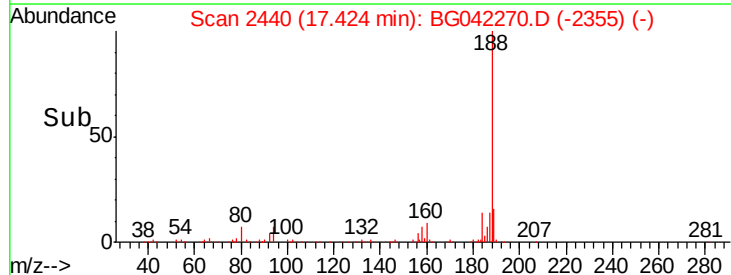
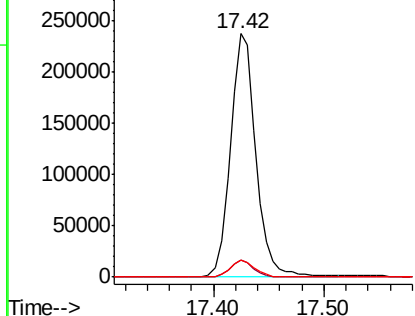


Abundance

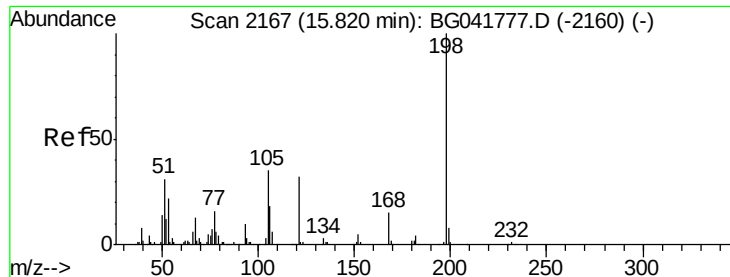
Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



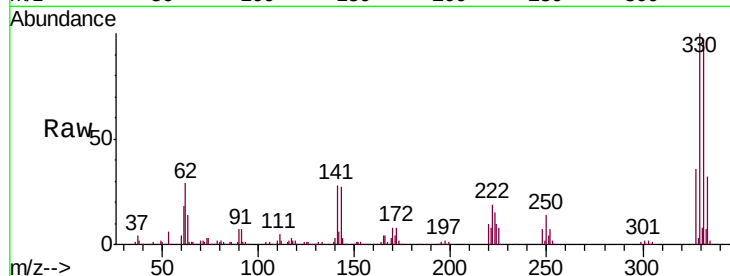




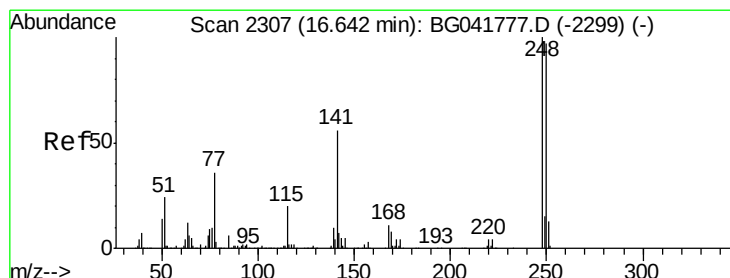
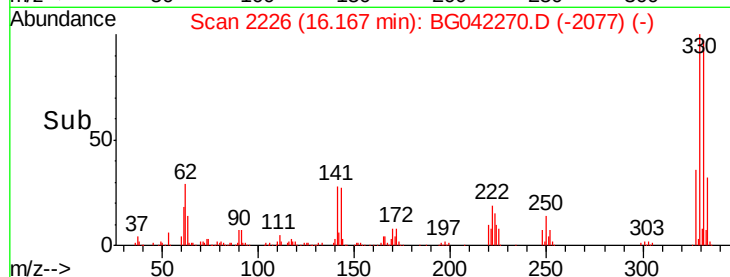
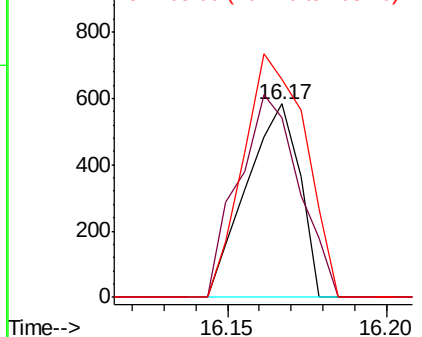
#65  
 4,6-Dinitro-2-methylphenol  
 Concen: 7.162 ng  
 RT: 16.17 min Scan# 2226  
 Delta R.T. 0.35 min  
 Lab File: BG042270.D  
 Acq: 16 Aug 2019 21:47

Instrument :  
 BNA\_G  
 ClientSampleId :  
 REACTOR-3-B-(0-3)

Tgt Ion:198 Resp: 676  
 Ion Ratio Lower Upper  
 198 100  
 51 92.6 22.3 62.3#  
 105 112.7 18.0 58.0#

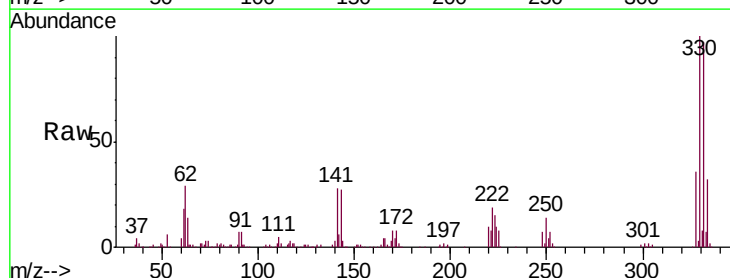


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BG  
 Ion 105.00 (104.70 to 105.70): E

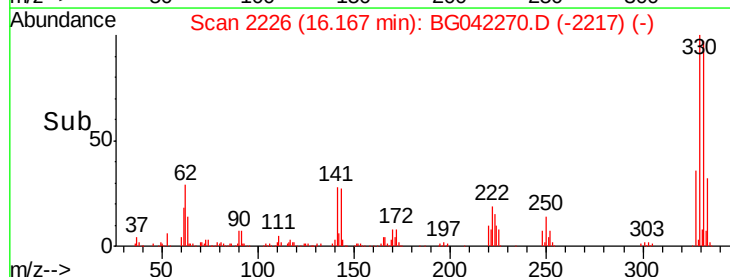
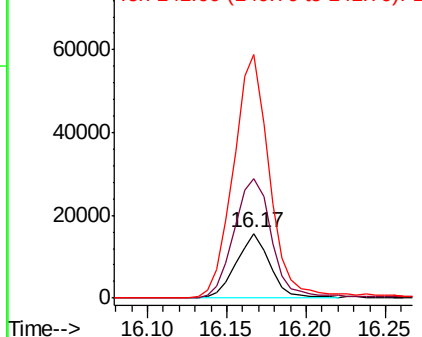


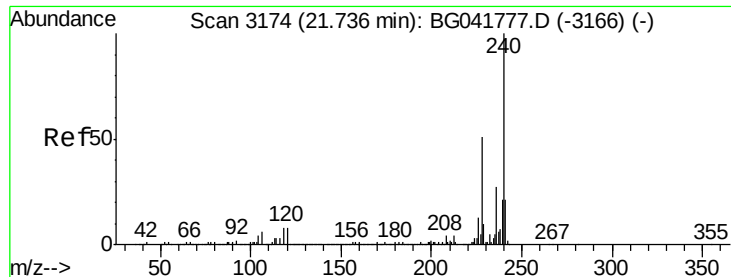
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.972 ng  
 RT: 16.17 min Scan# 2226  
 Delta R.T. -0.48 min  
 Lab File: BG042270.D  
 Acq: 16 Aug 2019 21:47

Tgt Ion:248 Resp: 23434  
 Ion Ratio Lower Upper  
 248 100  
 250 185.4 78.1 117.1#  
 141 375.9 49.6 74.4#



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

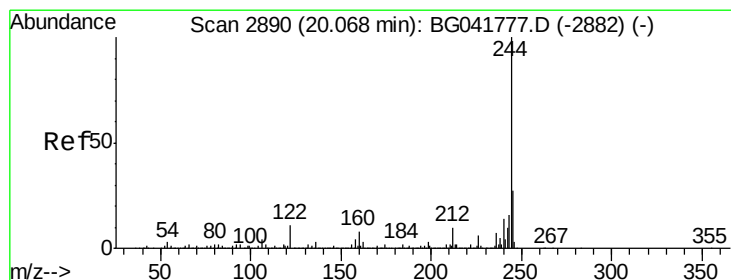
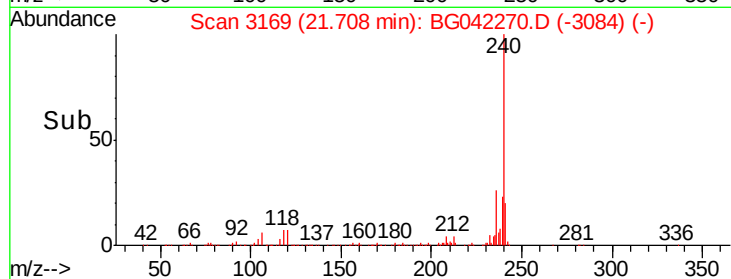
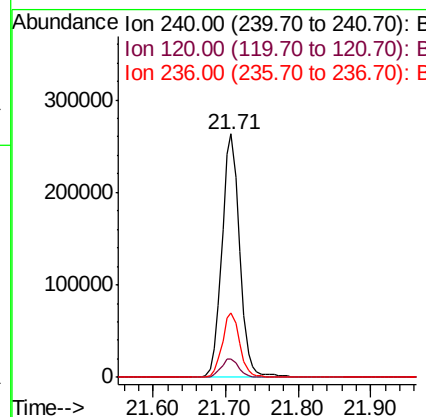
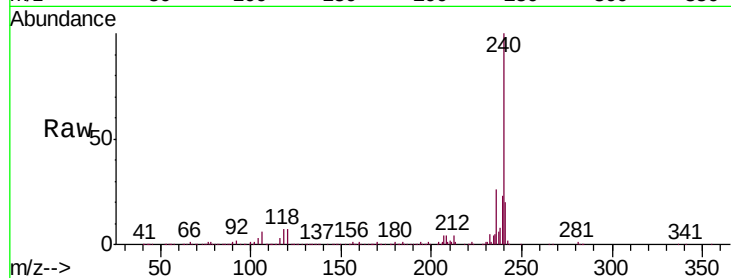




#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.71 min Scan# 3169  
 Delta R.T. -0.03 min  
 Lab File: BG042270.D  
 Acq: 16 Aug 2019 21:47

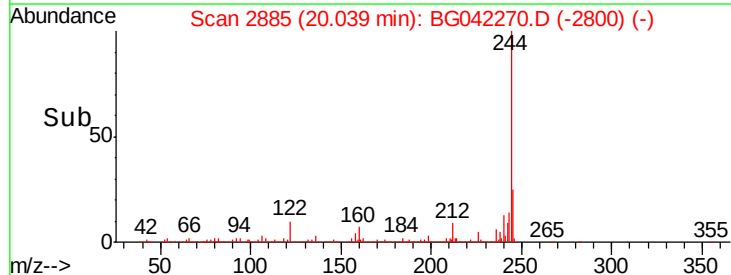
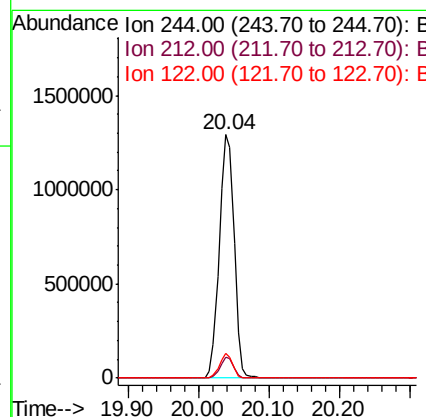
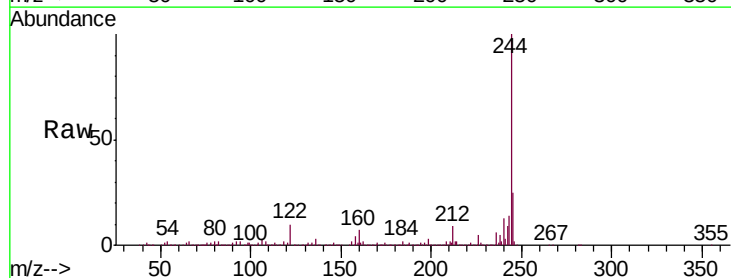
Instrument :  
 BNA\_G  
 ClientSampleId :  
 REACTOR-3-B-(0-3)

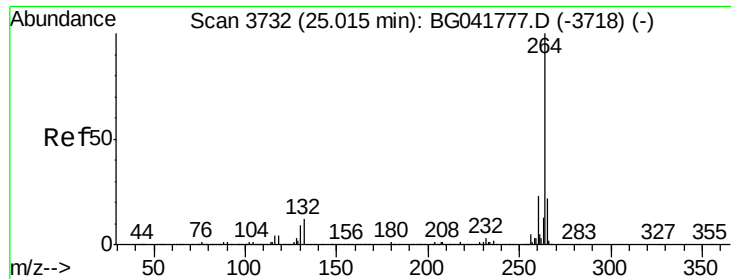
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 7.3   | 8.0   | 12.0# |
| 236     | 26.4  | 22.6  | 33.8  |



#79  
 Terphenyl-d14  
 Concen: 96.217 ng  
 RT: 20.04 min Scan# 2885  
 Delta R.T. -0.03 min  
 Lab File: BG042270.D  
 Acq: 16 Aug 2019 21:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 8.6   | 9.7   | 14.5# |
| 122     | 9.9   | 12.5  | 18.7# |





#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.96 min Scan# 3723  
Delta R.T. -0.05 min  
Lab File: BG042270.D  
Acq: 16 Aug 2019 21:47

Instrument :  
BNA\_G  
ClientSampleId :  
REACTOR-3-B-(0-3)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.3  | 19.5  | 29.3  |
| 265     | 21.9  | 18.0  | 27.0  |

