

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG111418\  
 Data File : BG038005.D  
 Acq On : 14 Nov 2018 20:17  
 Operator : JU/SJ  
 Sample : J5889-14  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BOTTOM-E

Quant Time: Nov 15 00:49:10 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG111318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 13 16:39:28 2018  
 Response via : Initial Calibration

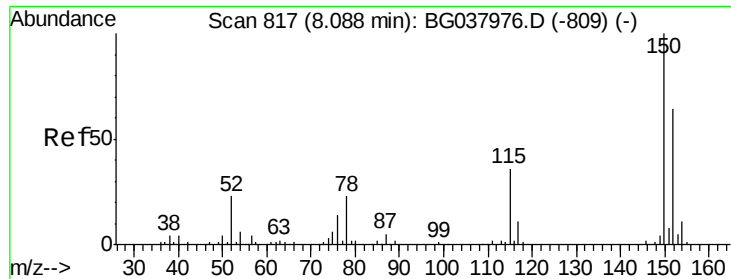
| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.08  | 152  | 53065    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.90 | 136  | 222745   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.72 | 164  | 140969   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.47 | 188  | 327220   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.74 | 240  | 311907   | 20.00 | ng    | -0.01    |
| 87) Perylene-d12          | 25.07 | 264  | 325883   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.63  | 112  | 499601   | 162.55 | ng    | 0.00     |
| 7) Phenol-d6                | 7.23  | 99   | 703337   | 160.32 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.26  | 82   | 423874   | 101.87 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.21 | 330  | 231852   | 144.21 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.34 | 172  | 895173   | 92.51  | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.07 | 244  | 1255127  | 94.69  | ng    | 0.00     |

| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 10) Phenol                     | 7.26  | 94   | 45036    | 9.691  | ng    | 95     |
| 19) n-Nitroso-di-n-propylamine | 9.26  | 70   | 53832    | 16.958 | ng    | # 71   |
| 31) Naphthalene                | 10.96 | 128  | 117976   | 10.768 | ng    | 100    |
| 33) 4-Chloroaniline            | 10.96 | 127  | 15816    | 3.103  | ng    | # 34   |
| 37) 2-Methylnaphthalene        | 12.55 | 142  | 26279    | 3.339  | ng    | 95     |
| 50) Dimethylphthalate          | 14.16 | 163  | 137728   | 12.324 | ng    | 99     |
| 57) 2,4-Dinitrotoluene         | 14.72 | 165  | 18895    | 5.490  | ng    | # 23   |
| 67) 4-Bromophenyl-phenylether  | 16.21 | 248  | 17082    | 4.756  | ng    | # 1    |
| 77) Benzidine                  | 20.07 | 184  | 22201    | 2.028  | ng    | # 95   |

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



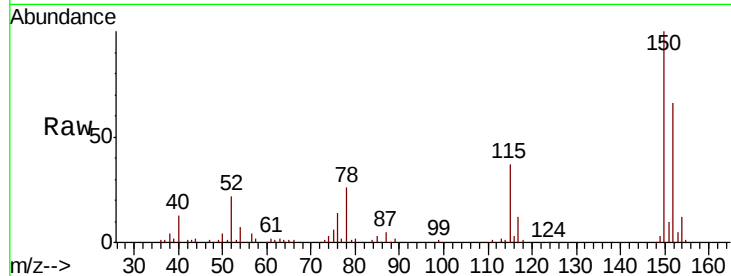


#1

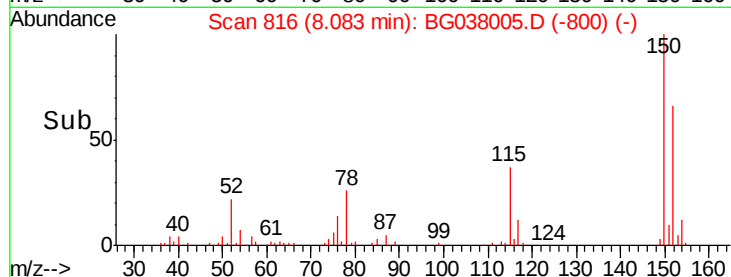
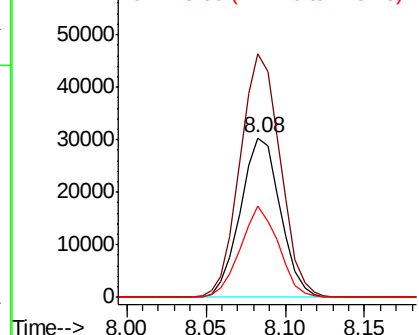
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.08 min Scan# 816  
Delta R.T. -0.01 min  
Lab File: BG038005.D  
Acq: 14 Nov 2018 20:17

Instrument :  
BNA\_G  
ClientSampleId :  
BOTTOM-E

Tgt Ion:152 Resp: 53065  
Ion Ratio Lower Upper  
152 100  
150 152.5 126.0 189.0  
115 56.8 45.5 68.3



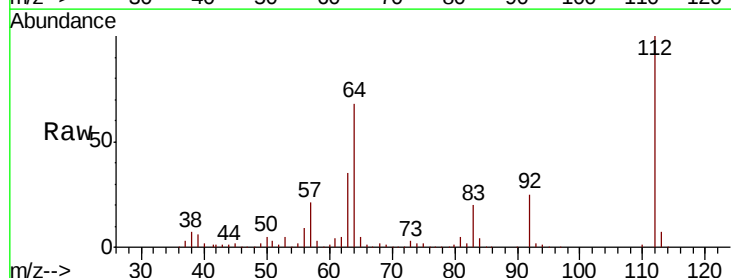
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



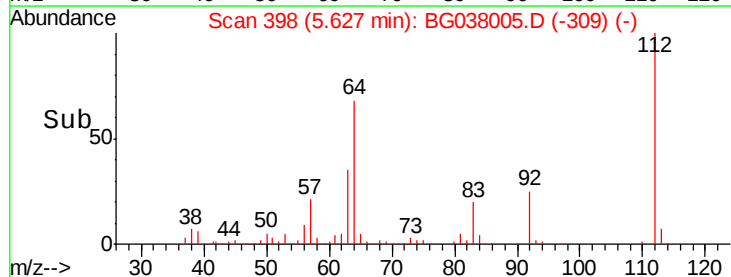
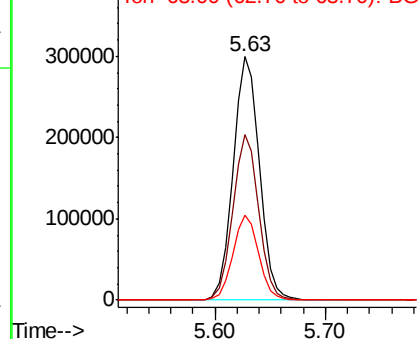
#5

2-Fluorophenol  
Concen: 162.554 ng  
RT: 5.63 min Scan# 398  
Delta R.T. -0.01 min  
Lab File: BG038005.D  
Acq: 14 Nov 2018 20:17

Tgt Ion:112 Resp: 499601  
Ion Ratio Lower Upper  
112 100  
64 67.9 53.1 79.7  
63 34.9 27.3 40.9



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: 160.317 ng

RT: 7.23 min Scan# 671

Delta R.T. 0.00 min

Lab File: BG038005.D

Acq: 14 Nov 2018 20:17

Instrument :

BNA\_G

ClientSampleId :

BOTTOM-E

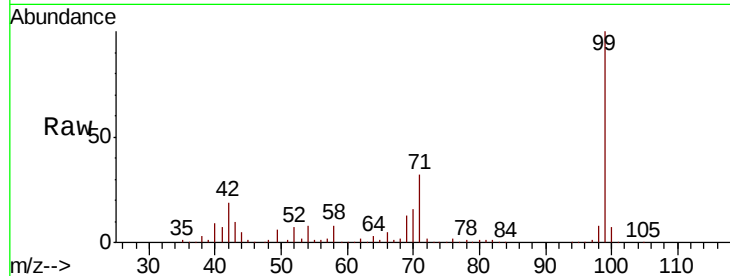
Tgt Ion: 99 Resp: 703337

Ion Ratio Lower Upper

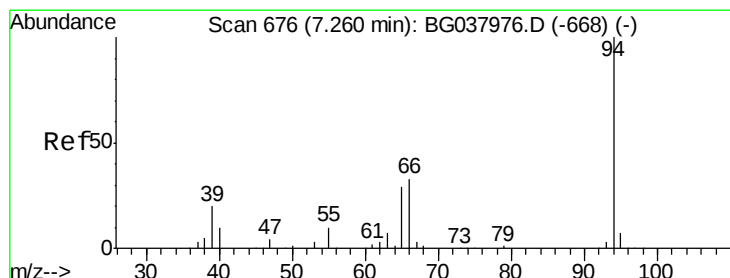
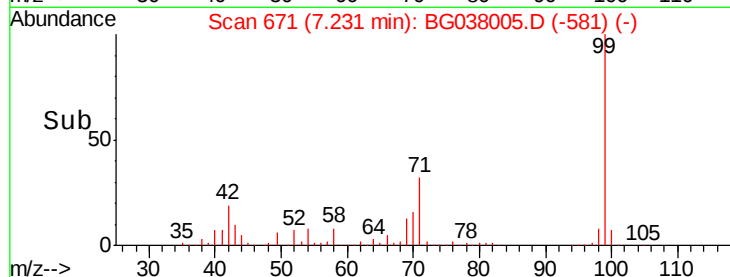
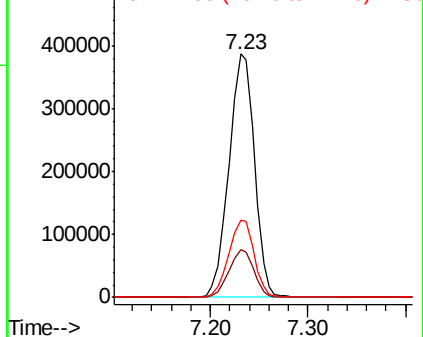
99 100

42 19.5 15.0 22.4

71 31.9 25.5 38.3



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: 9.691 ng

RT: 7.26 min Scan# 676

Delta R.T. 0.00 min

Lab File: BG038005.D

Acq: 14 Nov 2018 20:17

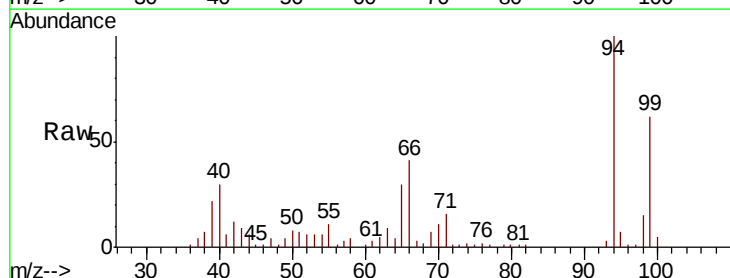
Tgt Ion: 94 Resp: 45036

Ion Ratio Lower Upper

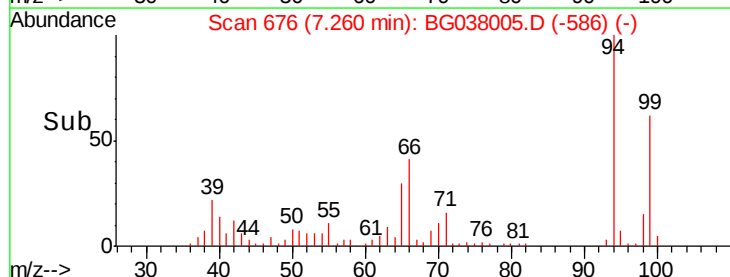
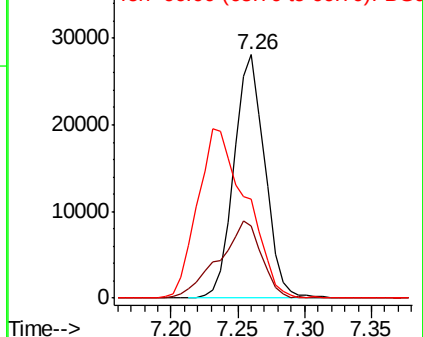
94 100

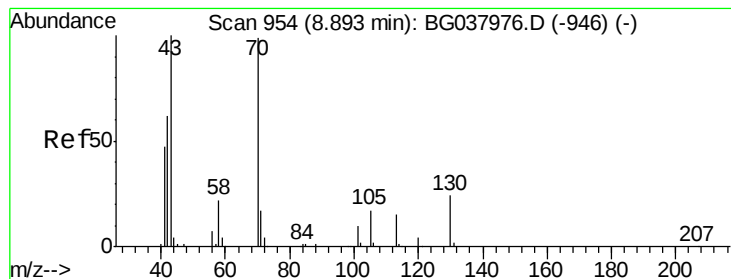
65 29.6 9.7 49.7

66 40.8 15.9 55.9



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: 16.958 ng

RT: 9.26 min Scan# 1017

Delta R.T. 0.37 min

Lab File: BG038005.D

Acq: 14 Nov 2018 20:17

Instrument :

BNA\_G

ClientSampleId :

BOTTOM-E

Tgt Ion: 70 Resp: 53832

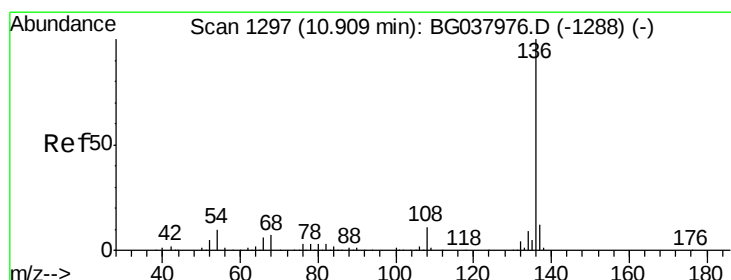
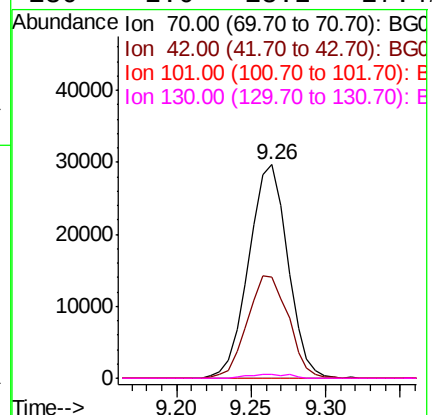
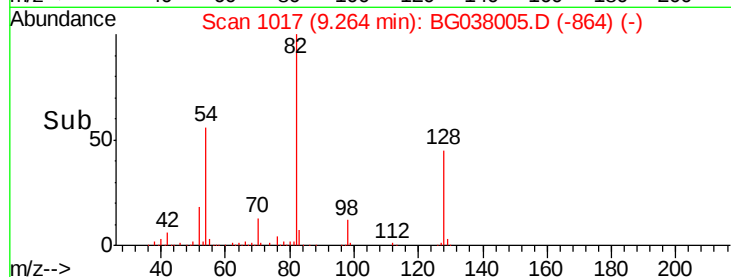
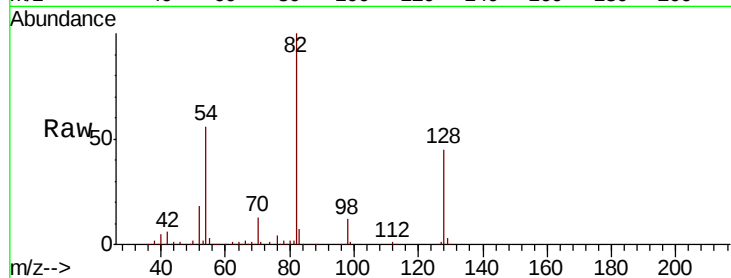
Ion Ratio Lower Upper

70 100

42 47.2 53.9 80.9#

101 0.0 8.2 12.2#

130 2.0 18.2 27.4#



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.90 min Scan# 1296

Delta R.T. -0.01 min

Lab File: BG038005.D

Acq: 14 Nov 2018 20:17

Tgt Ion: 136 Resp: 222745

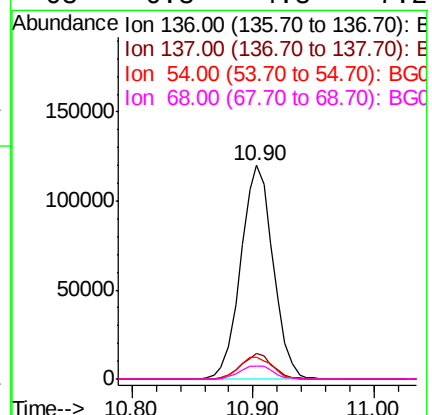
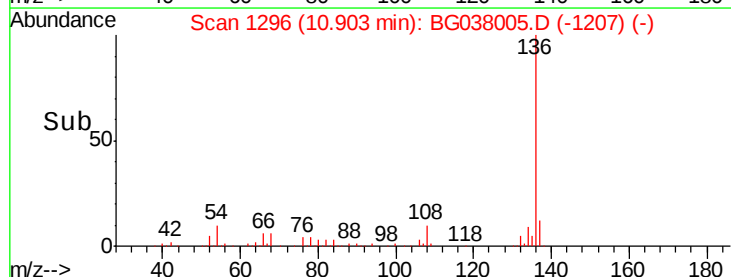
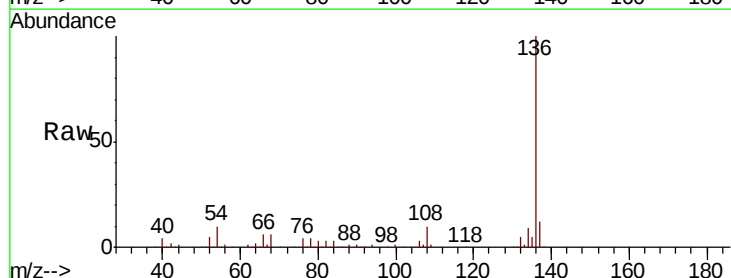
Ion Ratio Lower Upper

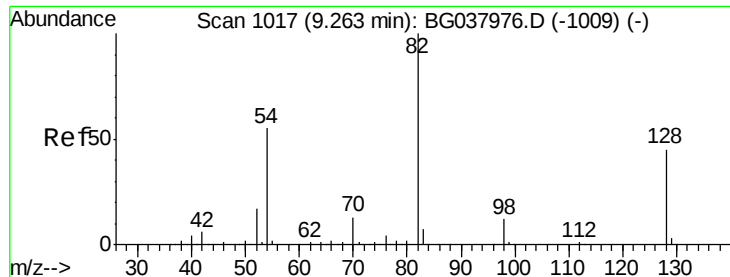
136 100

137 11.8 9.6 14.4

54 10.4 7.9 11.9

68 6.3 4.8 7.2

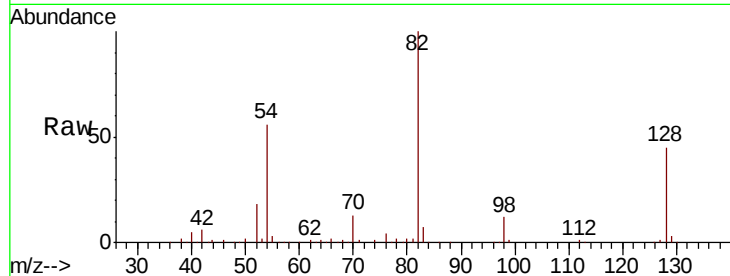




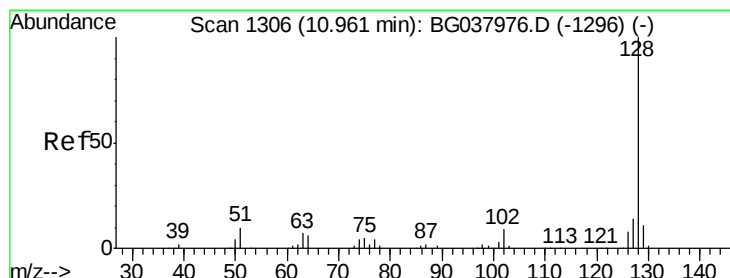
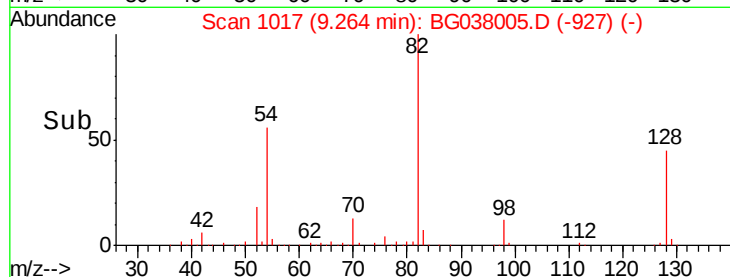
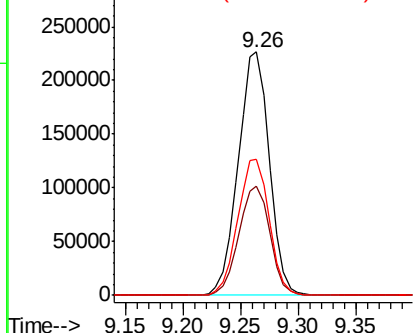
#23  
 Nitrobenzene-d5  
 Concen: 101.866 ng  
 RT: 9.26 min Scan# 1017  
 Delta R.T. 0.00 min  
 Lab File: BG038005.D  
 Acq: 14 Nov 2018 20:17

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BOTTOM-E

Tgt Ion: 82 Resp: 423874  
 Ion Ratio Lower Upper  
 82 100  
 128 44.9 34.6 51.8  
 54 56.0 45.3 67.9

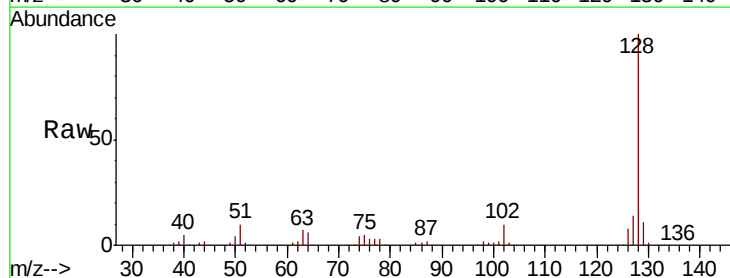


Abundance Ion 82.00 (81.70 to 82.70): BGC  
 Ion 128.00 (127.70 to 128.70): BGC  
 Ion 54.00 (53.70 to 54.70): BGC

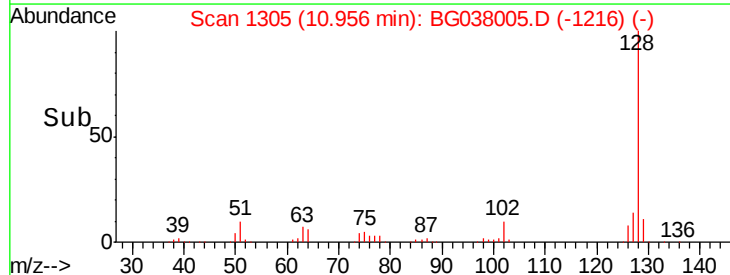
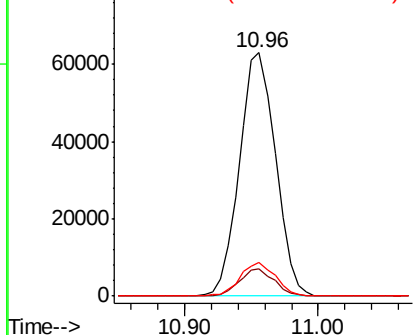


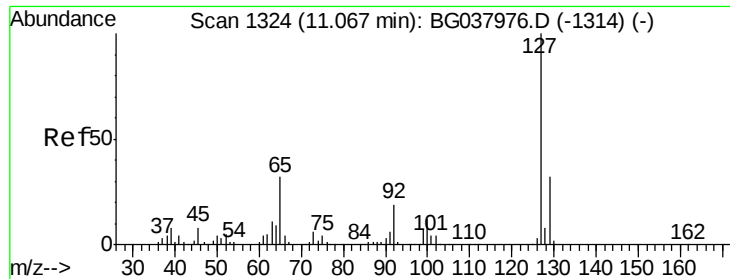
#31  
 Naphthalene  
 Concen: 10.768 ng  
 RT: 10.96 min Scan# 1305  
 Delta R.T. -0.01 min  
 Lab File: BG038005.D  
 Acq: 14 Nov 2018 20:17

Tgt Ion: 128 Resp: 117976  
 Ion Ratio Lower Upper  
 128 100  
 129 11.4 9.0 13.6  
 127 13.7 11.1 16.7



Abundance Ion 128.00 (127.70 to 128.70): BGC  
 Ion 129.00 (128.70 to 129.70): BGC  
 Ion 127.00 (126.70 to 127.70): BGC

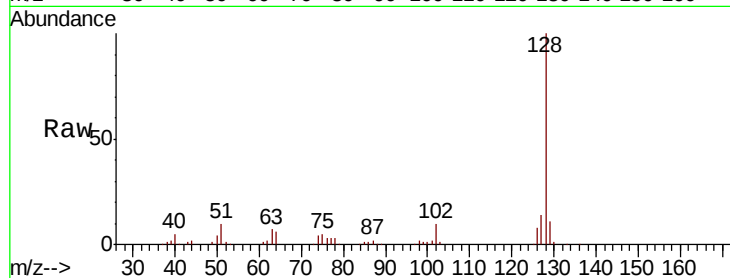




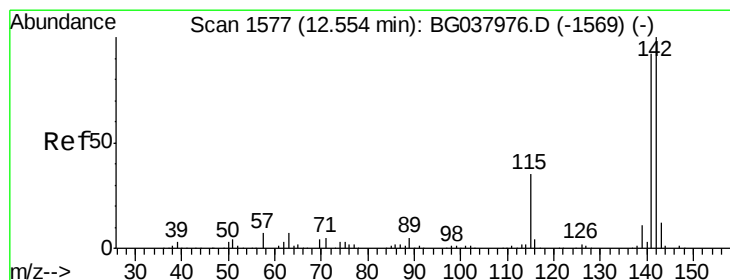
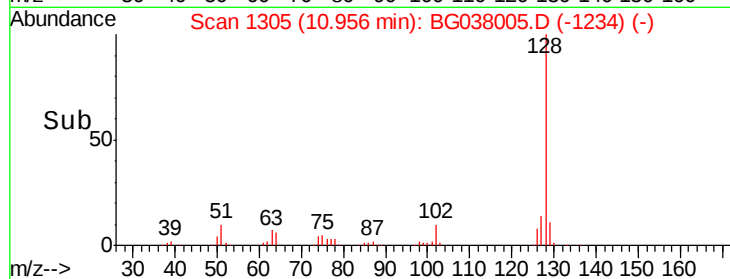
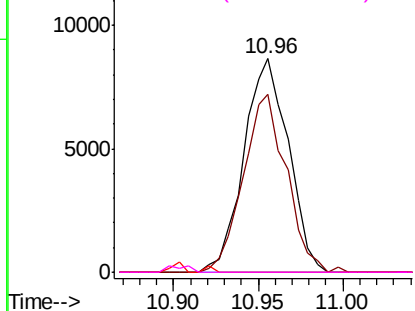
#33  
 4-Chloroaniline  
 Concen: 3.103 ng  
 RT: 10.96 min Scan# 1305  
 Delta R.T. -0.11 min  
 Lab File: BG038005.D  
 Acq: 14 Nov 2018 20:17

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BOTTOM-E

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 127   | Resp: | 15816 |
| Ion      | Ratio | Lower | Upper |
| 127      | 100   |       |       |
| 129      | 83.2  | 27.1  | 40.7# |
| 65       | 0.0   | 26.6  | 39.8# |
| 92       | 0.0   | 16.4  | 24.6# |

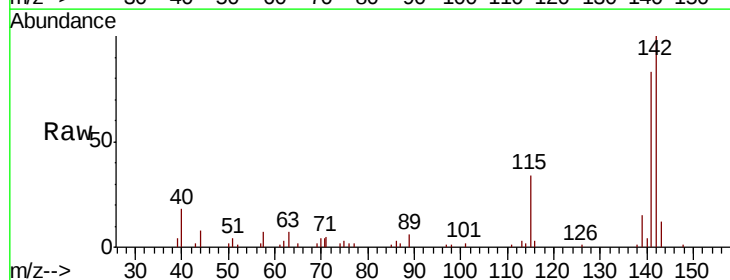


Abundance Ion 127.00 (126.70 to 127.70): E  
 Ion 129.00 (128.70 to 129.70): E  
 Ion 65.00 (64.70 to 65.70): BGC  
 Ion 92.00 (91.70 to 92.70): BGC

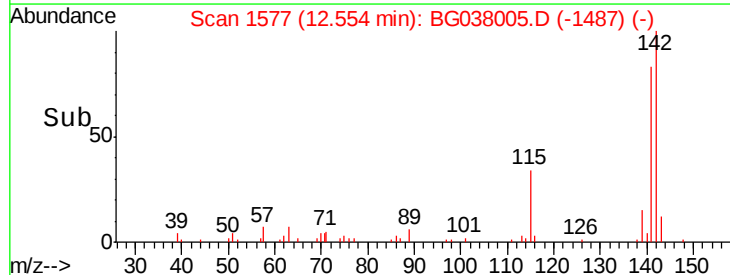
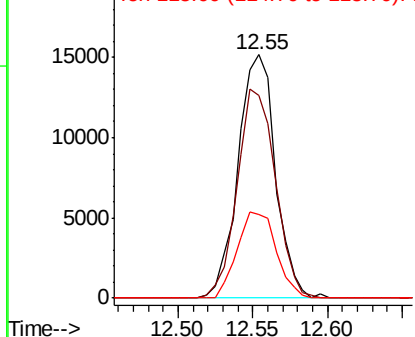


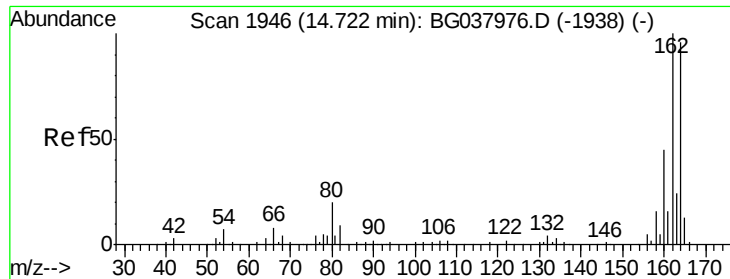
#37  
 2-Methylnaphthalene  
 Concen: 3.339 ng  
 RT: 12.55 min Scan# 1577  
 Delta R.T. 0.00 min  
 Lab File: BG038005.D  
 Acq: 14 Nov 2018 20:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 26279 |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 83.5  | 71.9  | 107.9 |
| 115      | 34.4  | 27.8  | 41.8  |



Abundance Ion 142.00 (141.70 to 142.70): E  
 Ion 141.00 (140.70 to 141.70): E  
 Ion 115.00 (114.70 to 115.70): E





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.72 min Scan# 1945

Delta R.T. -0.01 min

Lab File: BG038005.D

Acq: 14 Nov 2018 20:17

Instrument :

BNA\_G

ClientSampleId :

BOTTOM-E

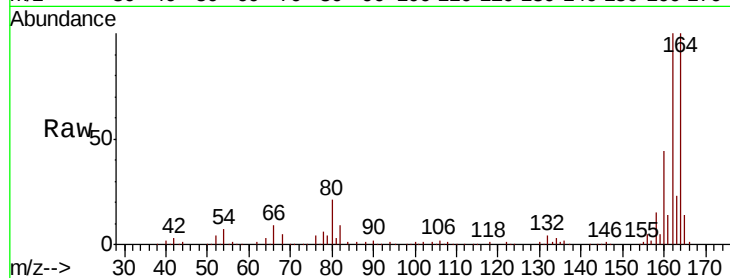
Tgt Ion:164 Resp: 140969

Ion Ratio Lower Upper

164 100

162 99.8 81.3 121.9

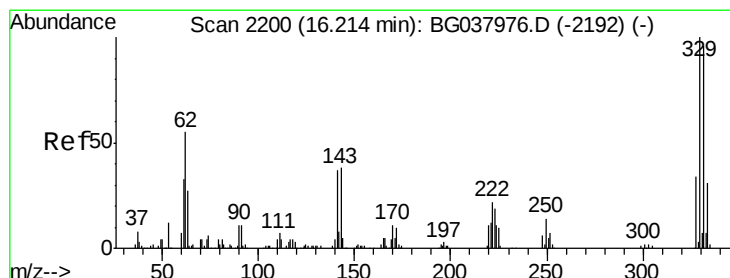
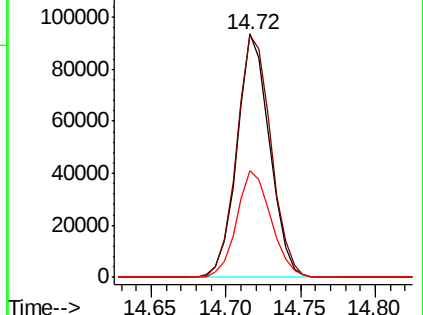
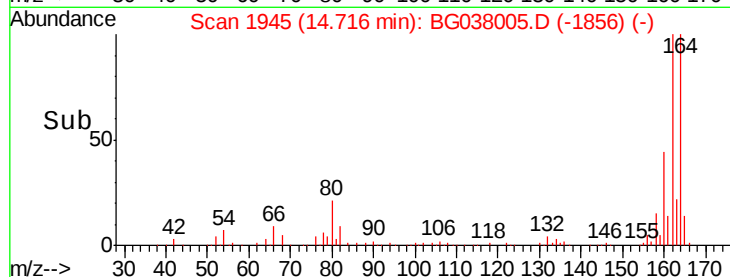
160 43.7 36.3 54.5



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: 144.212 ng

RT: 16.21 min Scan# 2199

Delta R.T. -0.01 min

Lab File: BG038005.D

Acq: 14 Nov 2018 20:17

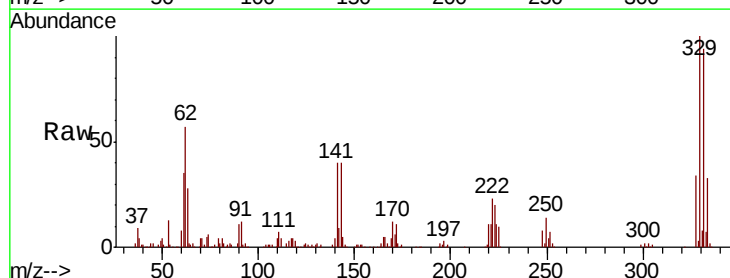
Tgt Ion:330 Resp: 231852

Ion Ratio Lower Upper

330 100

332 96.0 78.4 117.6

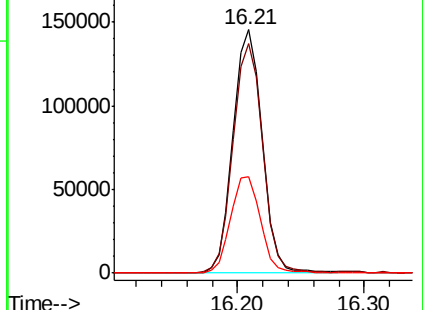
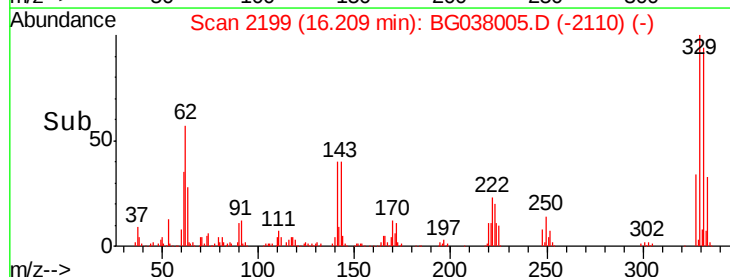
141 40.8 32.2 48.2

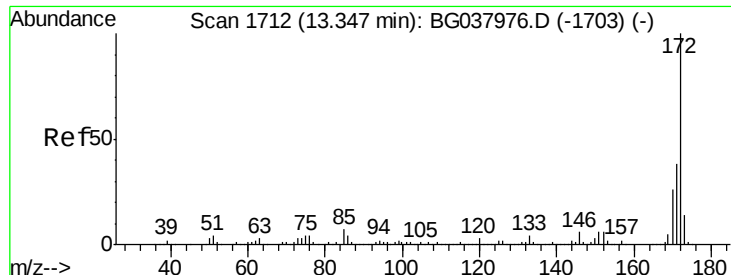


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

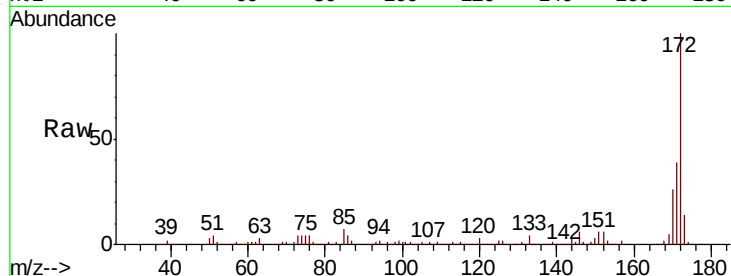




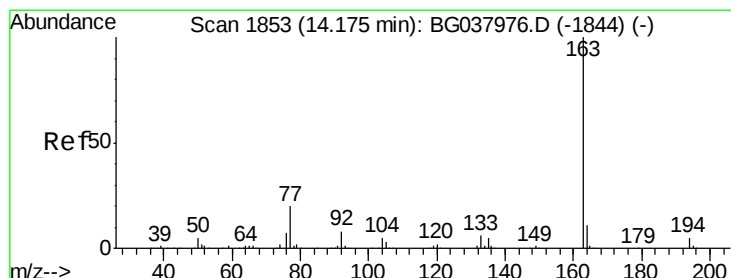
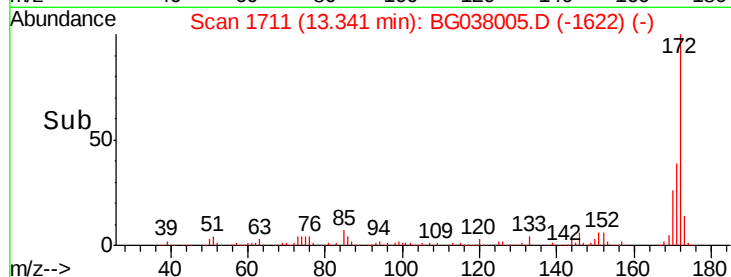
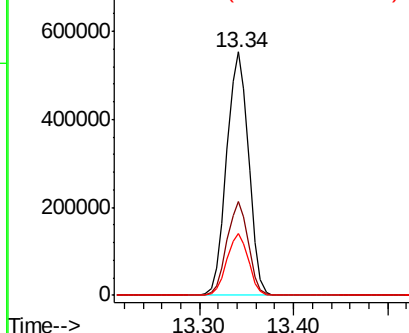
#45  
2-Fluorobiphenyl  
Concen: 92.512 ng  
RT: 13.34 min Scan# 1711  
Delta R.T. -0.01 min  
Lab File: BG038005.D  
Acq: 14 Nov 2018 20:17

Instrument :  
BNA\_G  
ClientSampleId :  
BOTTOM-E

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.7  | 31.0  | 46.4  |
| 170     | 25.5  | 20.2  | 30.2  |

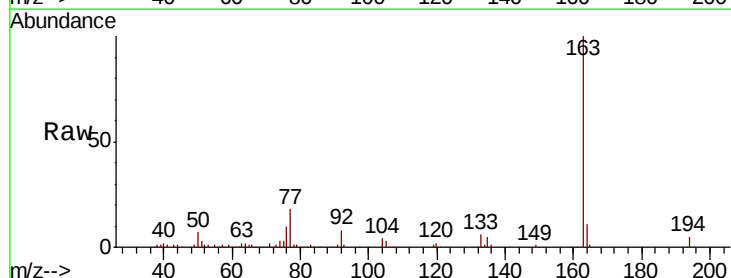


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

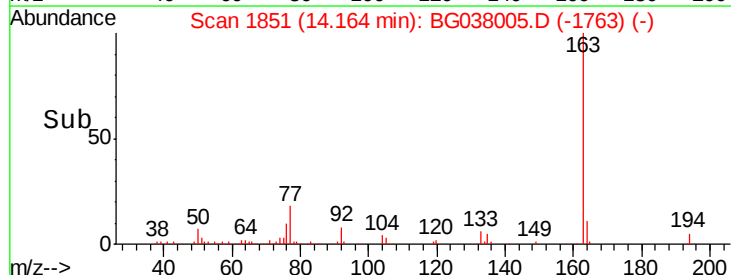
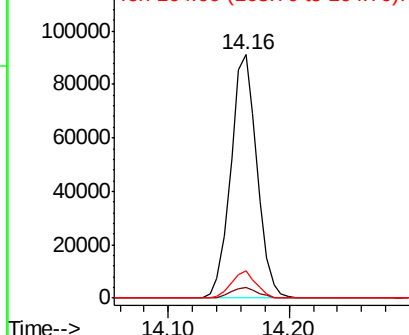


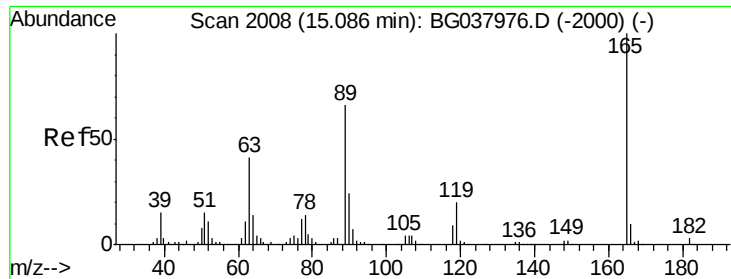
#50  
Dimethylphthalate  
Concen: 12.324 ng  
RT: 14.16 min Scan# 1851  
Delta R.T. -0.01 min  
Lab File: BG038005.D  
Acq: 14 Nov 2018 20:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.5   | 3.5   | 5.3   |
| 164     | 11.2  | 8.5   | 12.7  |



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

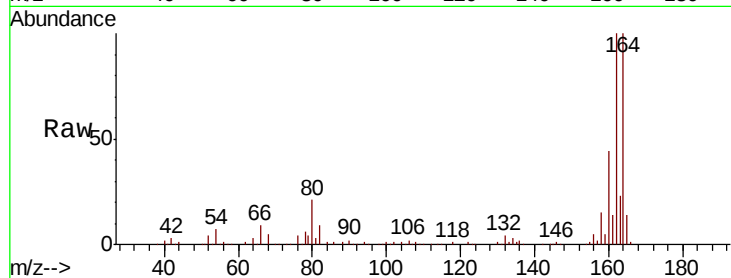




#57  
 2,4-Dinitrotoluene  
 Concen: 5.490 ng  
 RT: 14.72 min Scan# 1945  
 Delta R.T. -0.37 min  
 Lab File: BG038005.D  
 Acq: 14 Nov 2018 20:17

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BOTTOM-E

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 165   | Resp: | 18895 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 0.0   | 33.4  | 50.0# |
| 89       | 0.0   | 57.2  | 85.8# |
| 182      | 0.0   | 2.6   | 4.0#  |

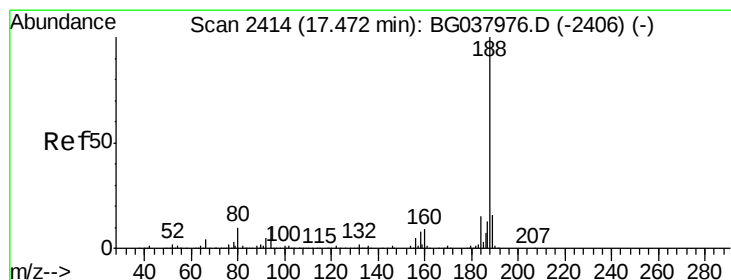
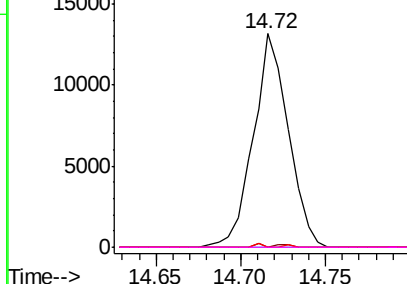
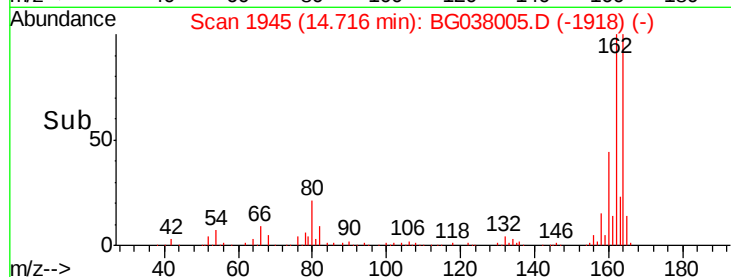


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

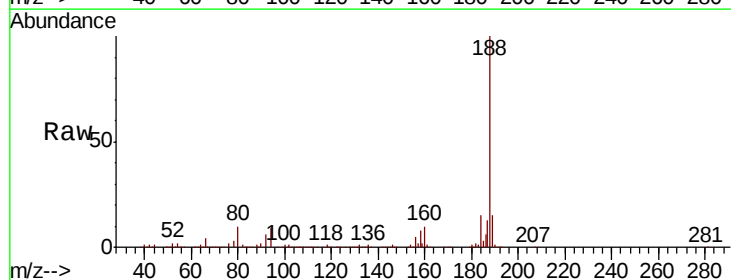
Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.47 min Scan# 2413  
 Delta R.T. -0.01 min  
 Lab File: BG038005.D  
 Acq: 14 Nov 2018 20:17

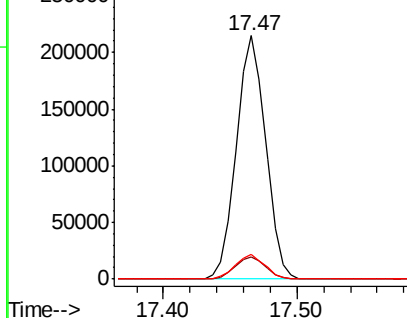
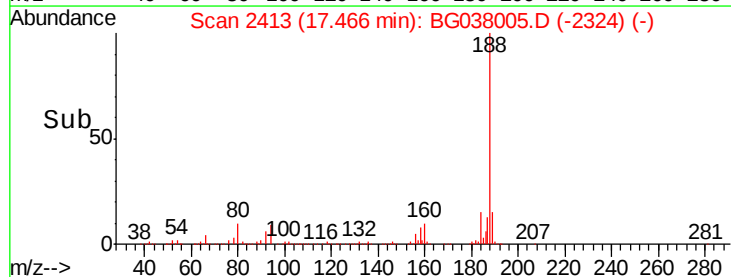
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 327220 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 9.0   | 7.2   | 10.8   |
| 80       | 9.9   | 7.7   | 11.5   |

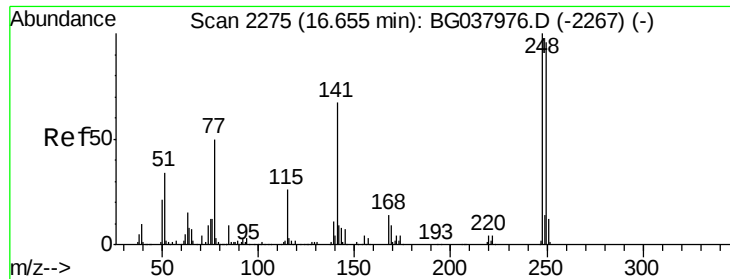


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

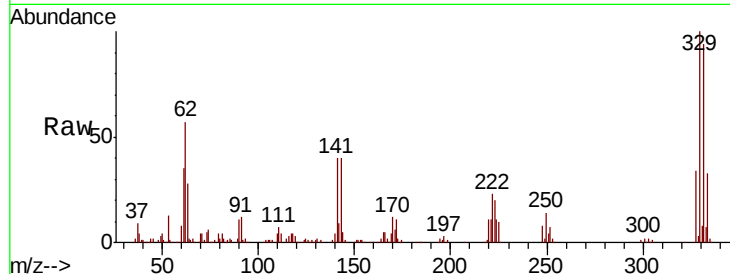




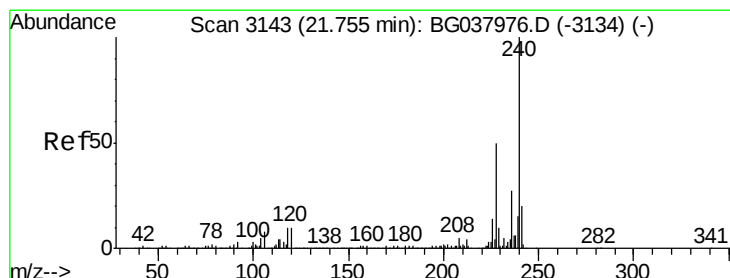
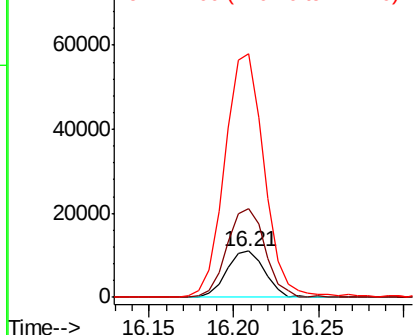
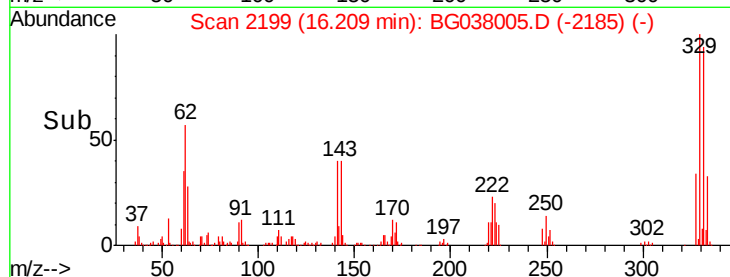
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.756 ng  
 RT: 16.21 min Scan# 2199  
 Delta R.T. -0.45 min  
 Lab File: BG038005.D  
 Acq: 14 Nov 2018 20:17

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BOTTOM-E

Tgt Ion:248 Resp: 17082  
 Ion Ratio Lower Upper  
 248 100  
 250 189.4 77.0 115.6#  
 141 409.2 55.5 83.3#

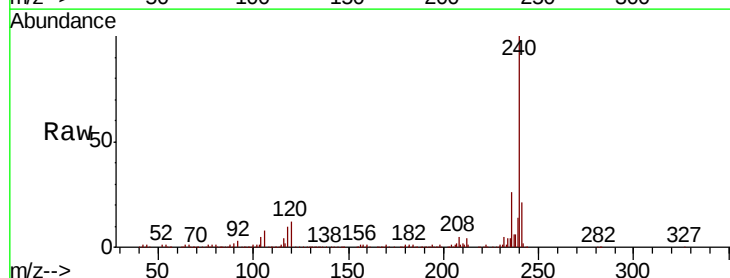


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

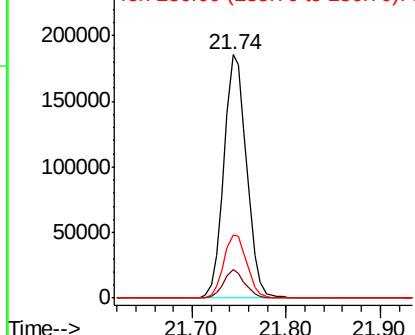
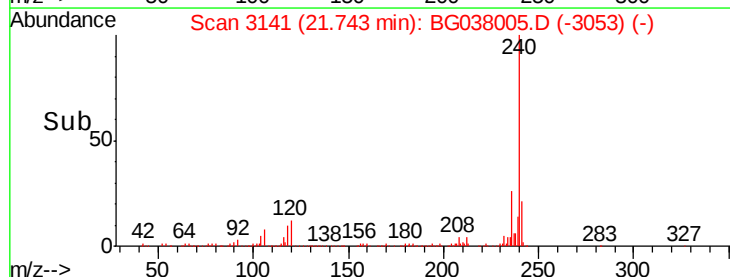


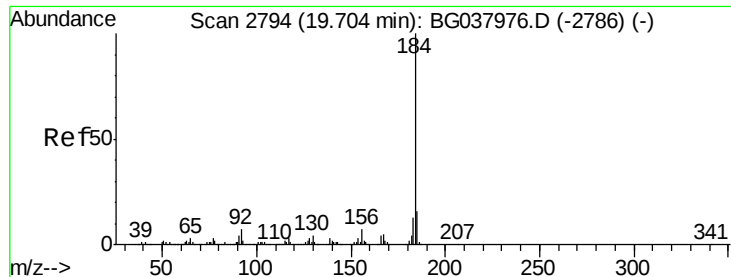
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.74 min Scan# 3141  
 Delta R.T. -0.01 min  
 Lab File: BG038005.D  
 Acq: 14 Nov 2018 20:17

Tgt Ion:240 Resp: 311907  
 Ion Ratio Lower Upper  
 240 100  
 120 11.9 8.1 12.1  
 236 26.1 21.4 32.0



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: 2.028 ng

RT: 20.07 min Scan# 2856

Delta R.T. 0.36 min

Lab File: BG038005.D

Acq: 14 Nov 2018 20:17

Instrument :

BNA\_G

ClientSampleId :

BOTTOM-E

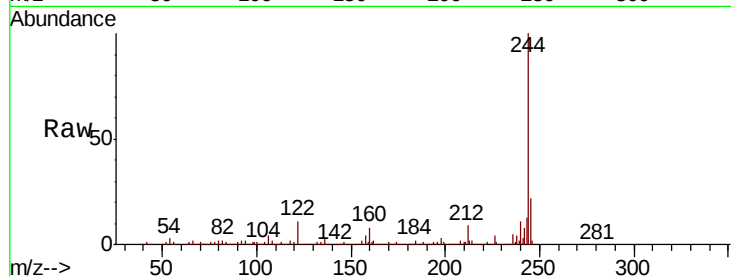
Tgt Ion:184 Resp: 22201

Ion Ratio Lower Upper

184 100

185 14.5 12.6 18.8

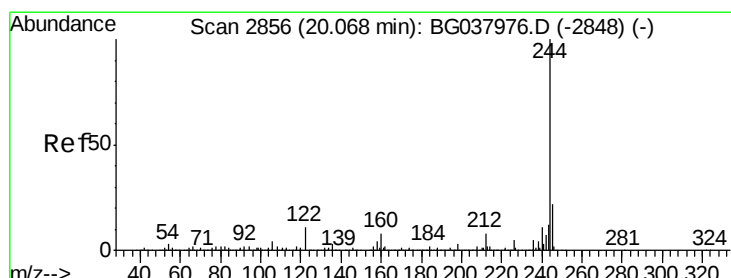
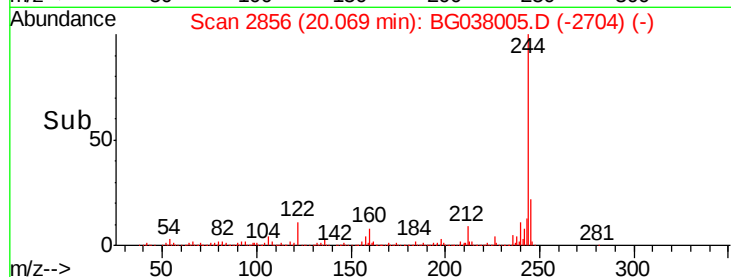
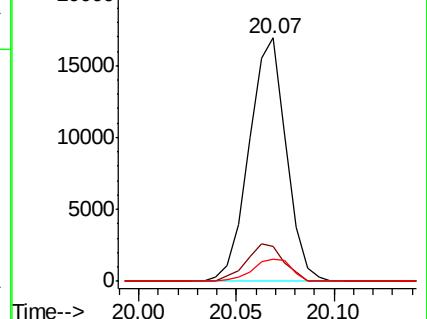
183 9.2 10.2 15.2#



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: 94.686 ng

RT: 20.07 min Scan# 2856

Delta R.T. 0.00 min

Lab File: BG038005.D

Acq: 14 Nov 2018 20:17

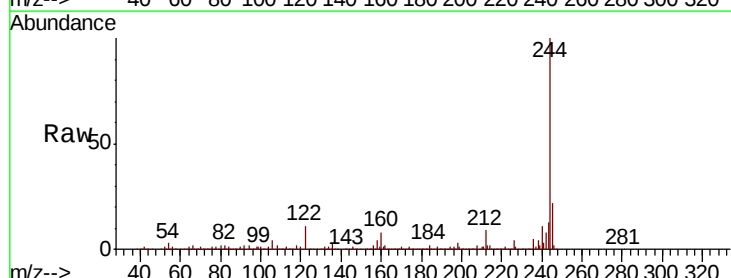
Tgt Ion:244 Resp: 1255127

Ion Ratio Lower Upper

244 100

212 8.6 6.5 9.7

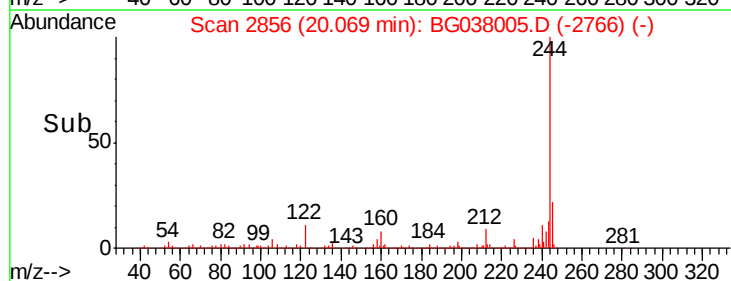
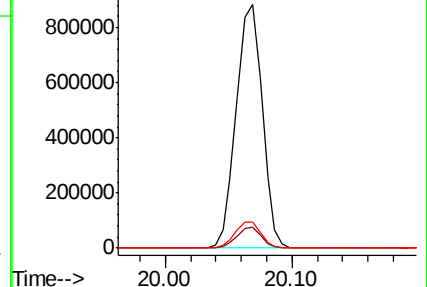
122 10.6 9.0 13.4

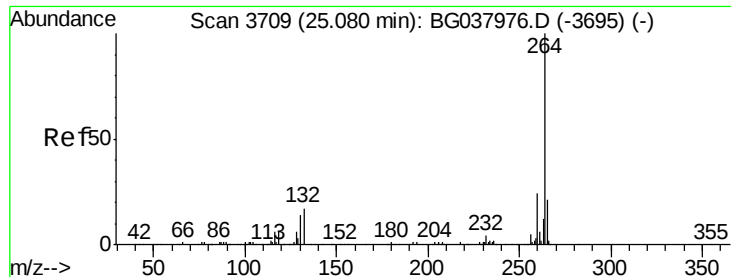


Abundance Ion 244.00 (243.70 to 244.70): E

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: 25.07 min Scan# 3707  
Delta R.T. -0.01 min  
Lab File: BG038005.D  
Acq: 14 Nov 2018 20:17

Instrument :  
BNA\_G  
ClientSampleId :  
BOTTOM-E

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 264   | Resp: | 325883 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 22.9  | 18.2  | 27.4   |
| 265      | 20.6  | 17.9  | 26.9   |

