

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG012615\  
 Data File : BG015940.D  
 Acq On : 27 Jan 2015 10:18  
 Operator : TP/IZ  
 Sample : G1139-04  
 Misc : S  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 121B2C

Quant Time: Jan 27 11:43:28 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG012015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jan 20 17:47:40 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.69  | 152  | 96424    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.47 | 136  | 397258   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 14.34 | 164  | 336169   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 17.10 | 188  | 708582   | 20.00 | ng    | 0.01     |
| 75) Chrysene-d12          | 21.27 | 240  | 1009559  | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 23.52 | 264  | 1015630  | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

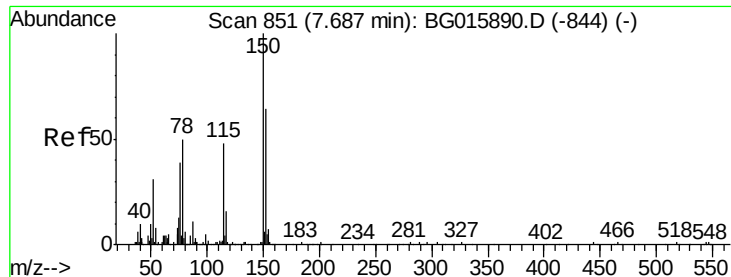
|                          |       |     |         |       |    |      |
|--------------------------|-------|-----|---------|-------|----|------|
| 5) 2-Fluorophenol        | 5.28  | 112 | 613208  | 94.70 | ng | 0.00 |
| 7) Phenol-d6             | 6.87  | 99  | 946810  | 90.74 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 8.85  | 82  | 827296  | 60.03 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 15.84 | 330 | 555069  | 90.19 | ng | 0.01 |
| 44) 2-Fluorobiphenyl     | 12.96 | 172 | 1444376 | 67.41 | ng | 0.00 |
| 78) Terphenyl-d14        | 19.72 | 244 | 2626326 | 69.36 | ng | 0.00 |

## Target Compounds

|                                |       |     |         |        |    | Qvalue |
|--------------------------------|-------|-----|---------|--------|----|--------|
| 9) Benzaldehyde                | 6.84  | 77  | 65532   | 6.89   | ng | # 1    |
| 18) Hexachloroethane           | 8.79  | 117 | 264058  | 67.65  | ng | # 1    |
| 19) n-Nitroso-di-n-propylamine | 8.45  | 70  | 78256   | 7.52   | ng | # 43   |
| 22) Acetophenone               | 8.49  | 105 | 644292  | 48.40  | ng | # 54   |
| 24) Nitrobenzene               | 8.87  | 77  | 63592   | 4.39   | ng | # 22   |
| 25) Isophorone                 | 9.39  | 82  | 121547  | 4.99   | ng | # 1    |
| 31) Naphthalene                | 10.53 | 128 | 1358679 | 66.82  | ng | # 92   |
| 32) Benzoic acid               | 9.79  | 122 | 1509    | 11.16  | ng | # 1    |
| 35) Caprolactam                | 11.40 | 113 | 54633   | 15.50  | ng | # 1    |
| 37) 2-Methylnaphthalene        | 12.16 | 142 | 3733892 | 231.23 | ng | # 97   |
| 43) 2,4,5-Trichlorophenol      | 12.88 | 196 | 23699   | 2.79   | ng | # 1    |
| 45) 1,1'-Biphenyl              | 13.17 | 154 | 783609  | 36.93  | ng | # 94   |
| 48) Acenaphthylene             | 14.07 | 152 | 160371  | 5.89   | ng | # 1    |
| 49) Dimethylphthalate          | 13.80 | 163 | 244530  | 10.11  | ng | # 90   |
| 51) Acenaphthene               | 14.40 | 154 | 242763  | 14.20  | ng | # 89   |
| 52) 3-Nitroaniline             | 14.25 | 138 | 20443   | 3.98   | ng | # 24   |
| 53) 2,4-Dinitrophenol          | 14.44 | 184 | 2592    | 5.43   | ng | # 1    |
| 54) Dibenzofuran               | 14.74 | 168 | 315432  | 11.18  | ng | # 1    |
| 55) 4-Nitrophenol              | 14.56 | 139 | 319480  | 90.38  | ng | # 1    |
| 56) 2,4-Dinitrotoluene         | 14.75 | 165 | 176518  | 22.09  | ng | # 56   |
| 57) Fluorene                   | 15.39 | 166 | 603345  | 23.71  | ng | # 86   |
| 62) Azobenzene                 | 15.71 | 77  | 183722  | 4.59   | ng | # 21   |
| 65) n-Nitrosodiphenylamine     | 15.61 | 169 | 1022789 | 50.59  | ng | # 67   |
| 68) Atrazine                   | 16.55 | 200 | 29762   | 3.06   | ng | # 70   |
| 69) Pentachlorophenol          | 16.76 | 266 | 11557   | 7.60   | ng | # 57   |
| 70) Phenanthrene               | 17.14 | 178 | 1926573 | 54.19  | ng | # 95   |
| 71) Anthracene                 | 17.22 | 178 | 93967   | 2.69   | ng | # 46   |
| 72) Carbazole                  | 17.49 | 167 | 106153  | 3.45   | ng | # 1    |
| 74) Fluoranthene               | 19.15 | 202 | 113792  | 2.40   | ng | # 64   |
| 76) Benzidine                  | 19.31 | 184 | 15551   | 2.59   | ng | # 1    |
| 77) Pyrene                     | 19.52 | 202 | 550027  | 11.46  | ng | # 90   |

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



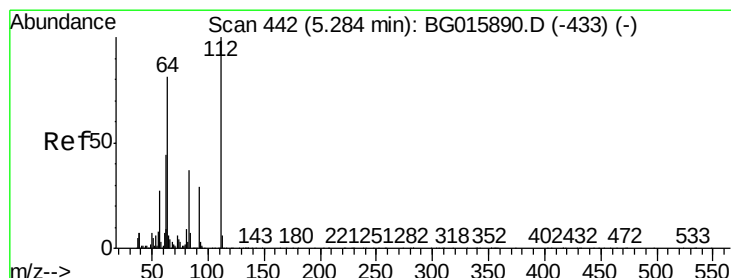
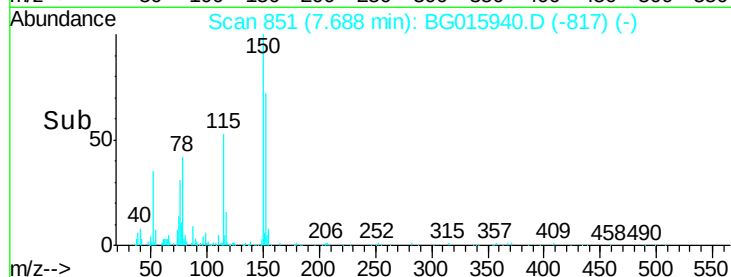
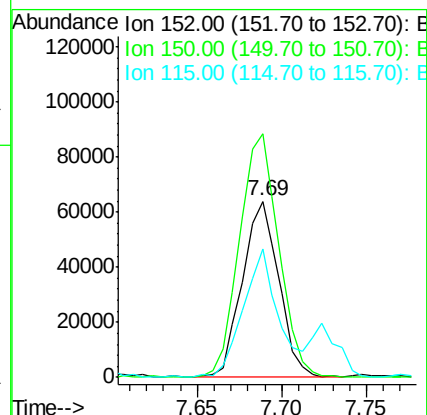
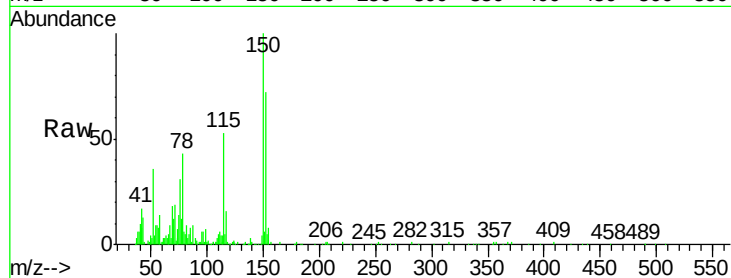


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.69 min Scan# 851  
Delta R.T. 0.00 min  
Lab File: BG015940.D  
Acq: 27 Jan 2015 10:18

Instrument :  
BNA\_G  
ClientSampled :  
121B2C

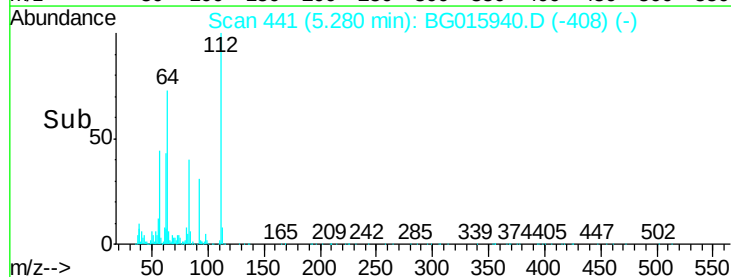
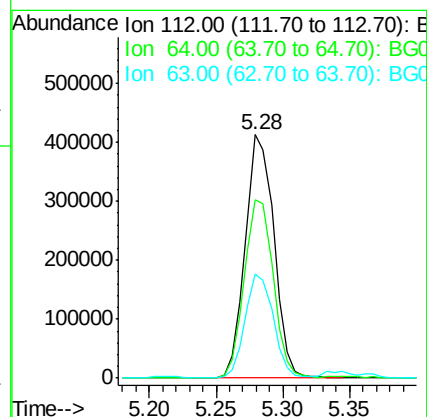
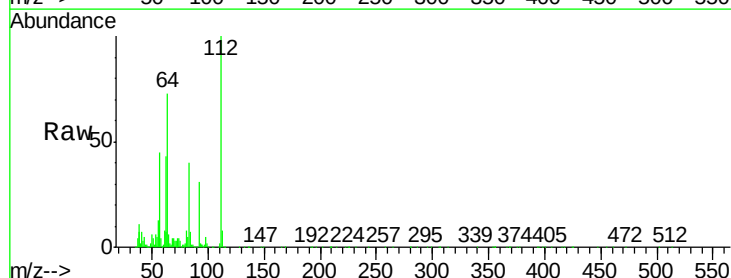
Tgt Ion:152 Resp: 96424  
Ion Ratio Lower Upper  
152 100  
150 138.0 124.5 186.7  
115 72.7 60.4 90.6

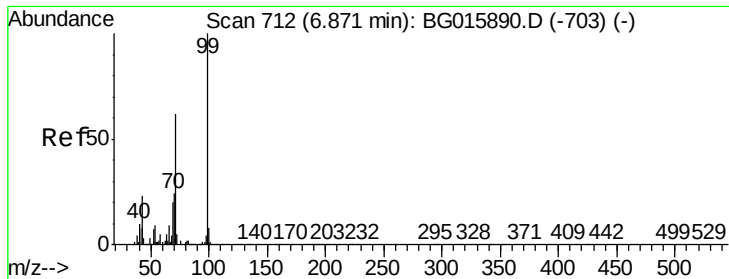


#5

2-Fluorophenol  
Concen: 94.70 ng  
RT: 5.28 min Scan# 441  
Delta R.T. -0.00 min  
Lab File: BG015940.D  
Acq: 27 Jan 2015 10:18

Tgt Ion:112 Resp: 613208  
Ion Ratio Lower Upper  
112 100  
64 73.3 64.4 96.6  
63 42.9 35.1 52.7





#7

Phenol-d6

Concen: 90.74 ng

RT: 6.87 min Scan# 712

Delta R.T. 0.00 min

Lab File: BG015940.D

Acq: 27 Jan 2015 10:18

Instrument :

BNA\_G

ClientSampleId :

121B2C

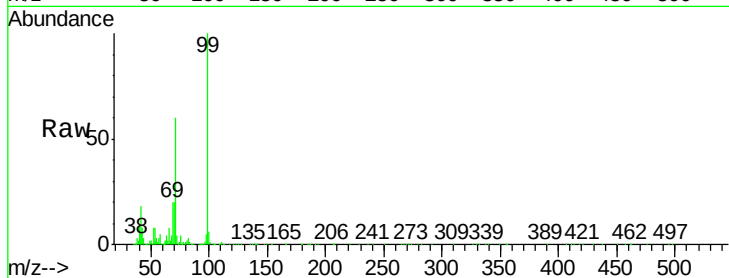
Tgt Ion: 99 Resp: 946810

Ion Ratio Lower Upper

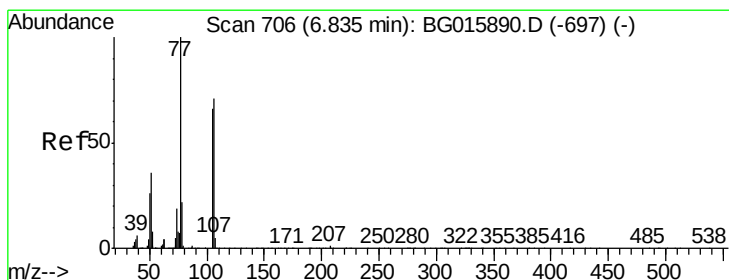
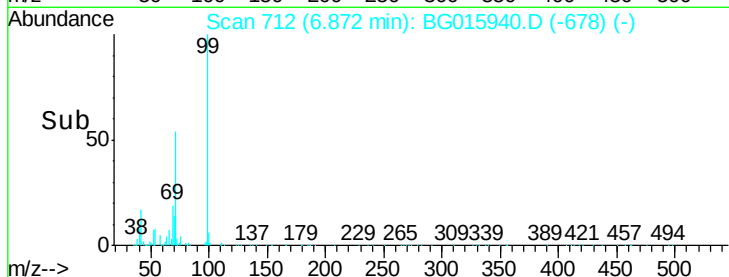
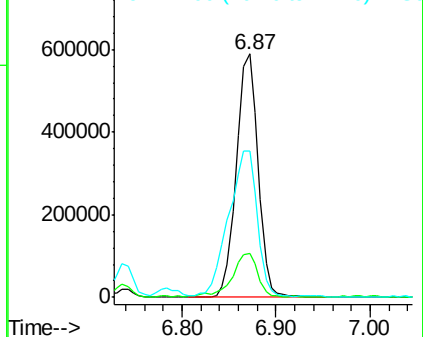
99 100

42 18.2 18.1 27.1

71 60.1 49.8 74.8



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



#9

Benzaldehyde

Concen: 6.89 ng

RT: 6.84 min Scan# 706

Delta R.T. 0.00 min

Lab File: BG015940.D

Acq: 27 Jan 2015 10:18

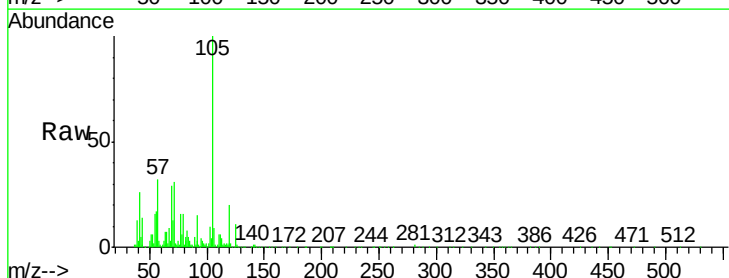
Tgt Ion: 77 Resp: 65532

Ion Ratio Lower Upper

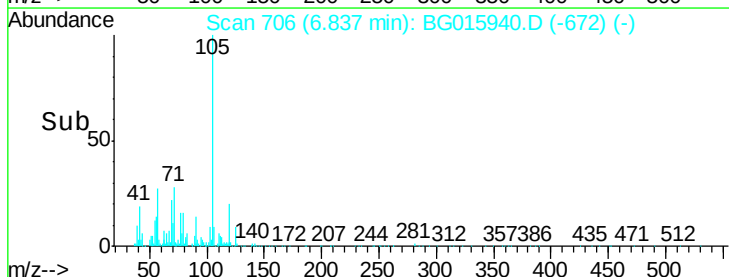
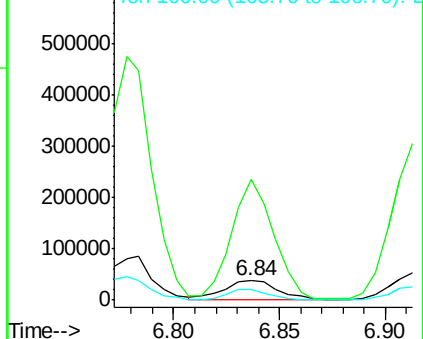
77 100

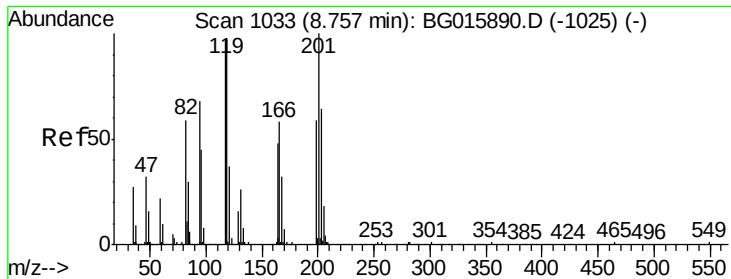
105 629.0 46.0 86.0#

106 56.6 51.1 91.1



Abundance Ion 77.00 (76.70 to 77.70): BGC  
Ion 105.00 (104.70 to 105.70): BGC  
Ion 106.00 (105.70 to 106.70): BGC

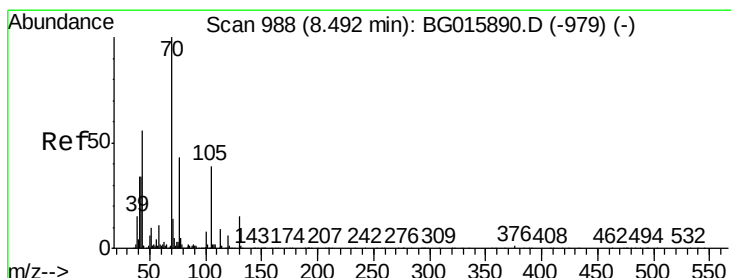
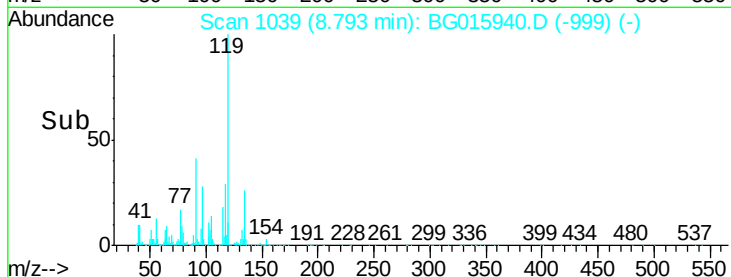
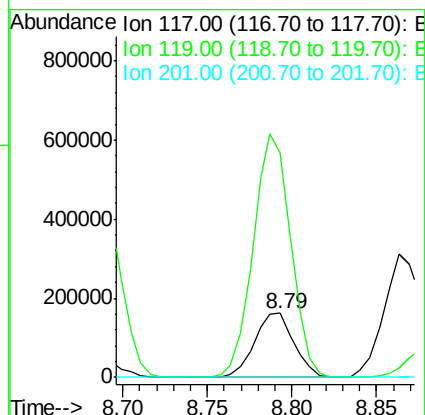
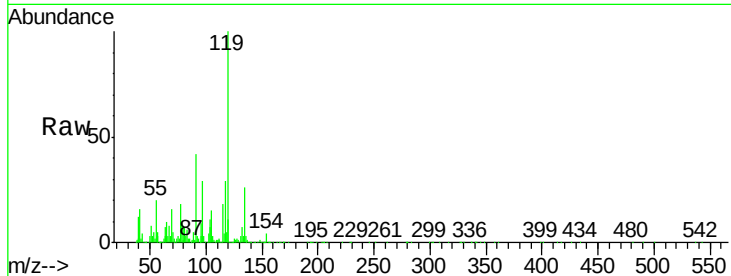




#18  
Hexachloroethane  
Concen: 67.65 ng  
RT: 8.79 min Scan# 1039  
Delta R.T. 0.04 min  
Lab File: BG015940.D  
Acq: 27 Jan 2015 10:18

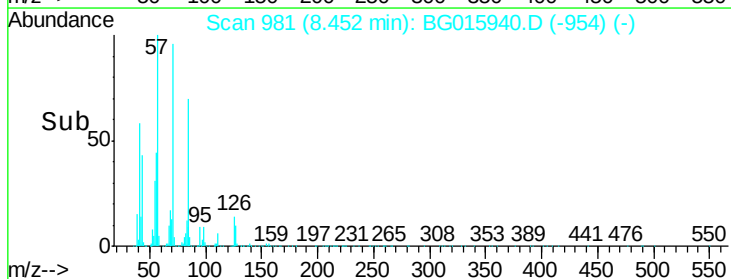
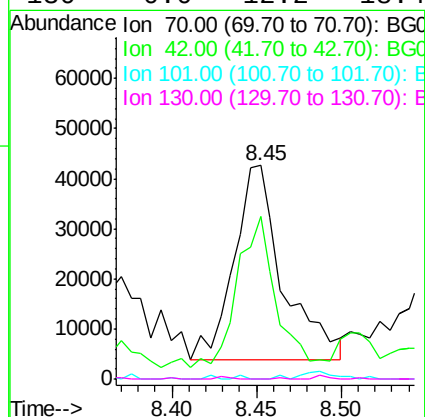
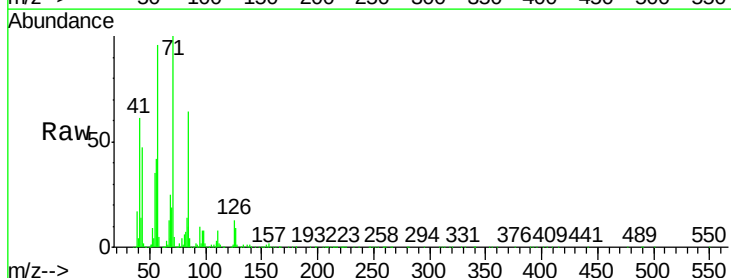
Instrument :  
BNA\_G  
ClientSampleId :  
121B2C

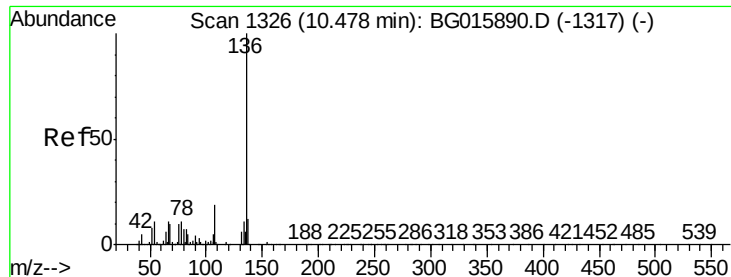
Tgt Ion: 117 Resp: 264058  
Ion Ratio Lower Upper  
117 100  
119 348.9 80.2 120.2#  
201 0.0 82.6 124.0#



#19  
n-Nitroso-di-n-propylamine  
Concen: 7.52 ng  
RT: 8.45 min Scan# 981  
Delta R.T. -0.04 min  
Lab File: BG015940.D  
Acq: 27 Jan 2015 10:18

Tgt Ion: 70 Resp: 78256  
Ion Ratio Lower Upper  
70 100  
42 76.3 26.8 40.2#  
101 0.0 6.3 9.5#  
130 0.0 12.2 18.4#

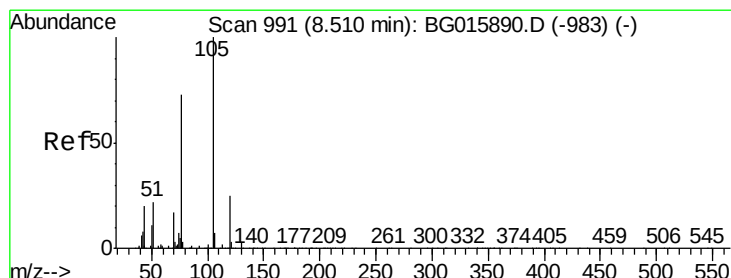
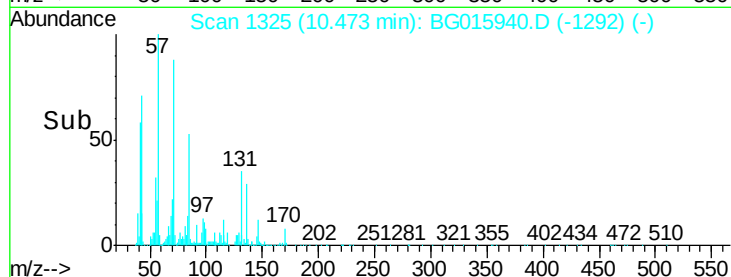
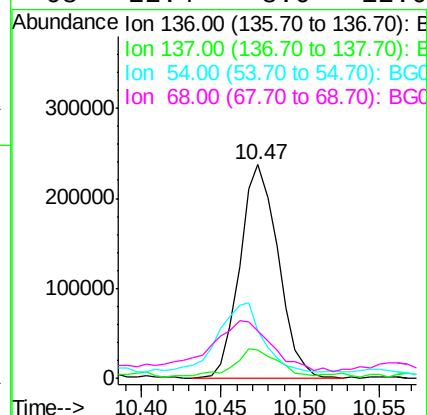
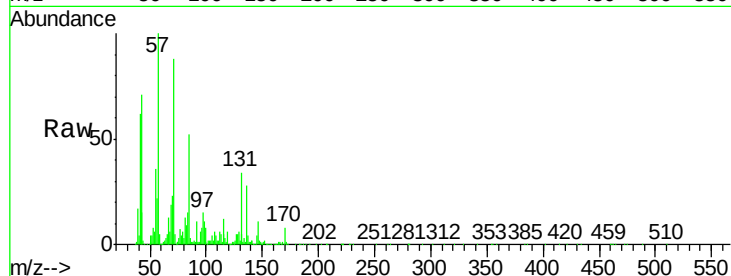




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.47 min Scan# 1325  
Delta R.T. -0.00 min  
Lab File: BG015940.D  
Acq: 27 Jan 2015 10:18

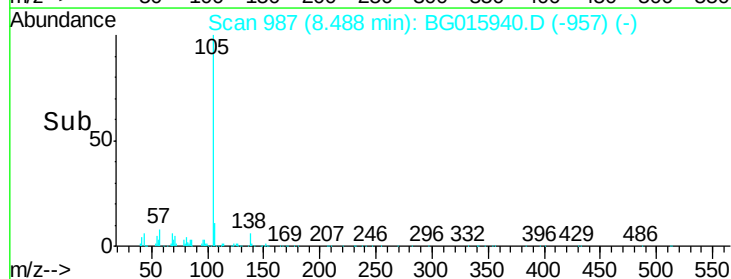
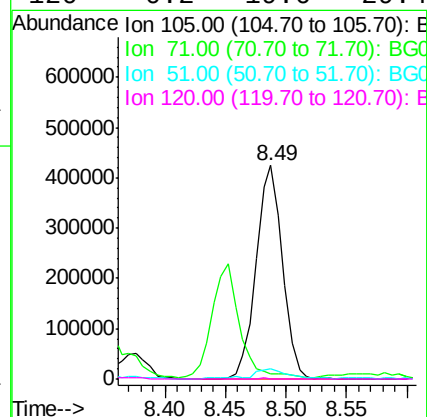
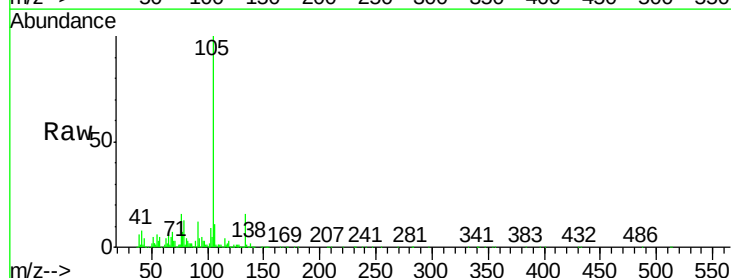
Instrument :  
BNA\_G  
ClientSampleId :  
121B2C

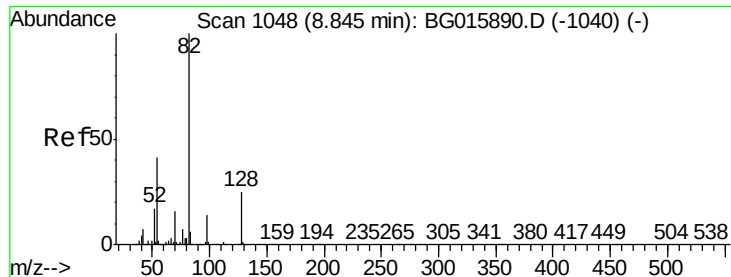
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 397258 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 13.2  | 9.7   | 14.5   |
| 54        | 22.3  | 8.5   | 12.7#  |
| 68        | 22.4  | 8.0   | 12.0#  |



#22  
Acetophenone  
Concen: 48.40 ng  
RT: 8.49 min Scan# 987  
Delta R.T. -0.02 min  
Lab File: BG015940.D  
Acq: 27 Jan 2015 10:18

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 644292 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 71        | 2.7   | 2.4   | 3.6    |
| 51        | 4.6   | 24.6  | 36.8#  |
| 120       | 0.2   | 19.6  | 29.4#  |

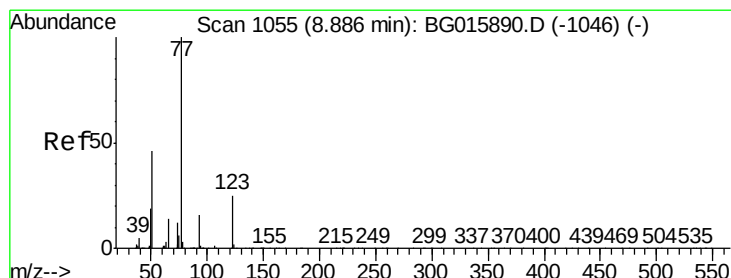
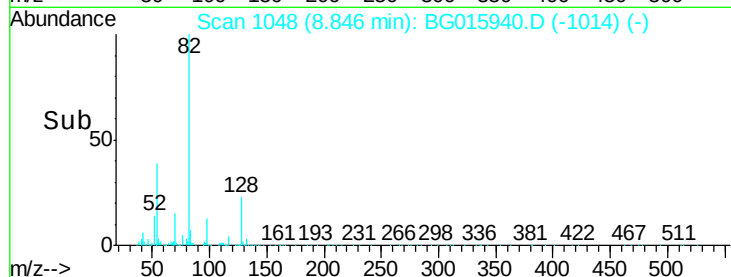
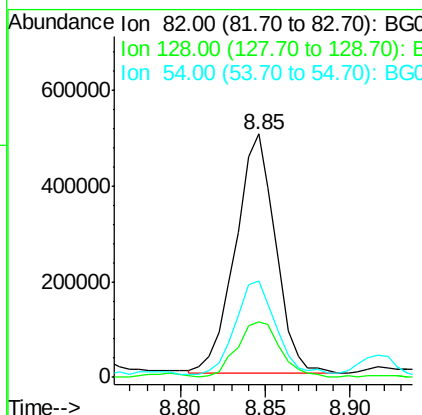
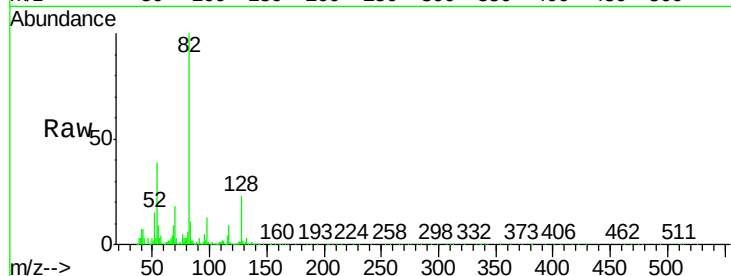




#23  
Nitrobenzene-d5  
Concen: 60.03 ng  
RT: 8.85 min Scan# 1048  
Delta R.T. 0.00 min  
Lab File: BG015940.D  
Acq: 27 Jan 2015 10:18

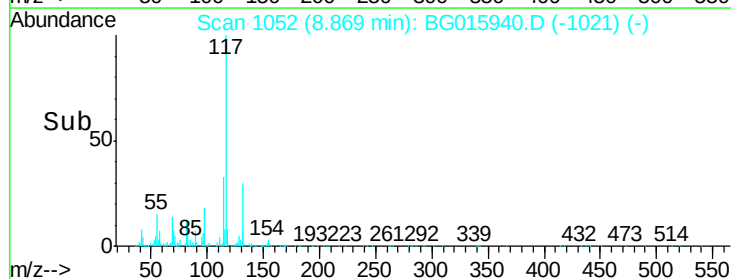
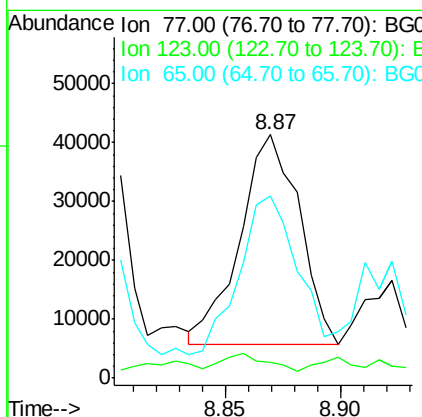
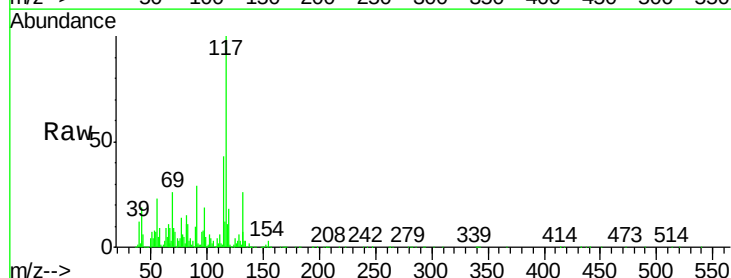
Instrument :  
BNA\_G  
ClientSampleId :  
121B2C

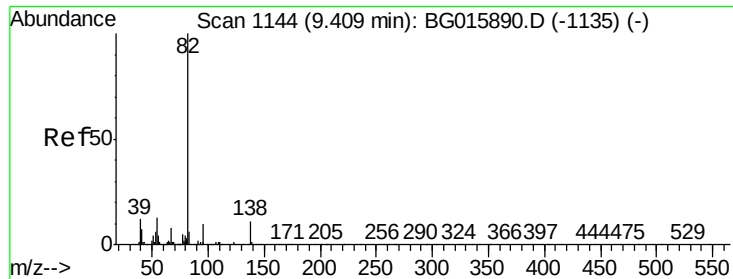
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 22.8  | 19.8  | 29.8  |
| 54      | 39.4  | 33.0  | 49.4  |



#24  
Nitrobenzene  
Concen: 4.39 ng  
RT: 8.87 min Scan# 1052  
Delta R.T. -0.02 min  
Lab File: BG015940.D  
Acq: 27 Jan 2015 10:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 123     | 6.3   | 20.0  | 30.0# |
| 65      | 75.0  | 11.0  | 16.4# |





#25

Isophorone

Concen: 4.99 ng

RT: 9.39 min Scan# 1141

Delta R.T. -0.02 min

Lab File: BG015940.D

Acq: 27 Jan 2015 10:18

Instrument :

BNA\_G

ClientSampleId :

121B2C

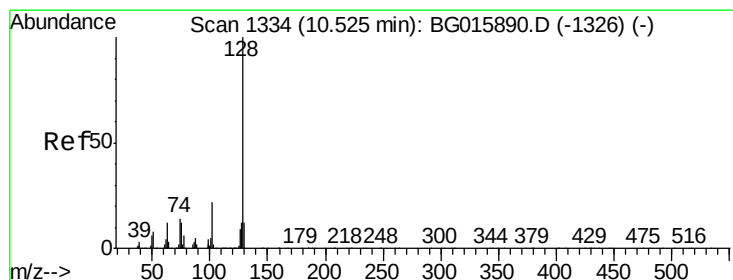
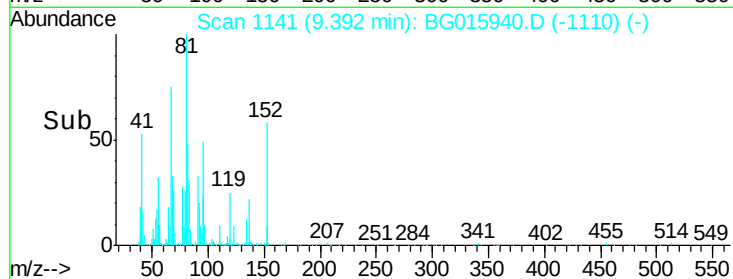
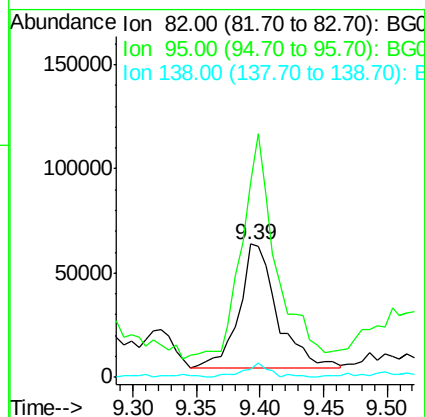
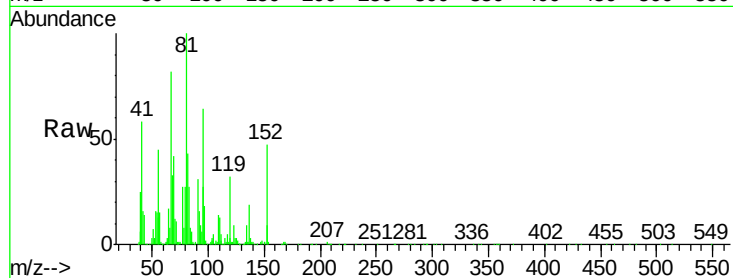
Tgt Ion: 82 Resp: 121547

Ion Ratio Lower Upper

82 100

95 146.2 8.1 12.1#

138 6.3 9.1 13.7#



#31

Naphthalene

Concen: 66.82 ng

RT: 10.53 min Scan# 1334

Delta R.T. 0.00 min

Lab File: BG015940.D

Acq: 27 Jan 2015 10:18

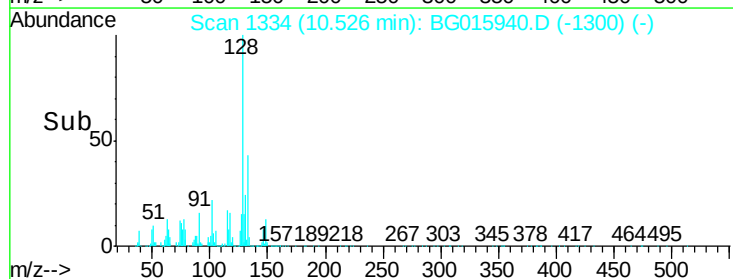
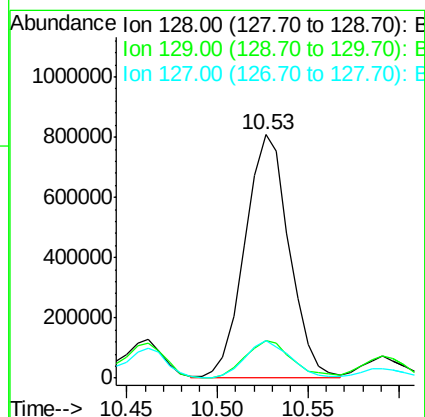
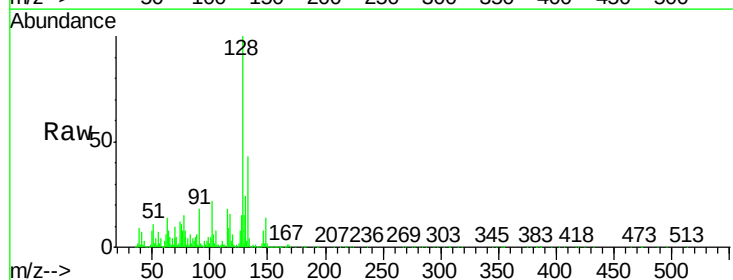
Tgt Ion: 128 Resp: 1358679

Ion Ratio Lower Upper

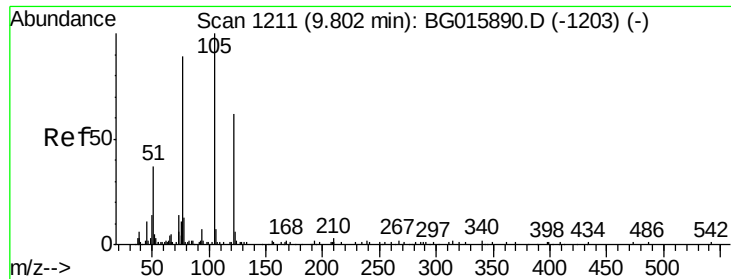
128 100

129 15.3 9.7 14.5#

127 15.2 9.8 14.6#







#32

Benzoic acid

Concen: 11.16 ng

RT: 9.79 min Scan# 1209

Delta R.T. -0.01 min

Lab File: BG015940.D

Acq: 27 Jan 2015 10:18

Instrument :

BNA\_G

ClientSampleId :

121B2C

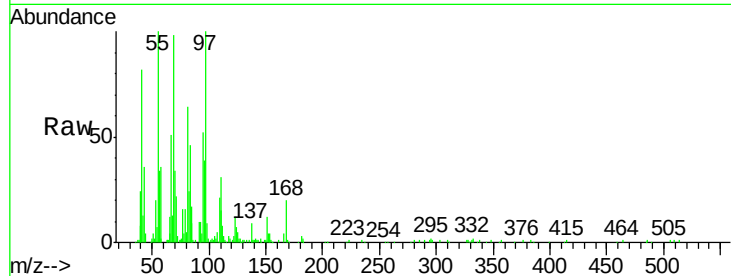
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Ion Ratio Lower Upper

122 100

105 129.7 140.2 180.2#

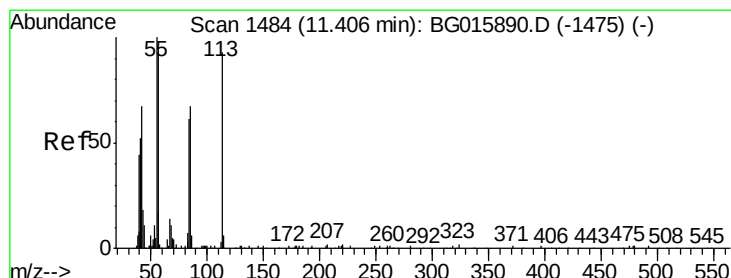
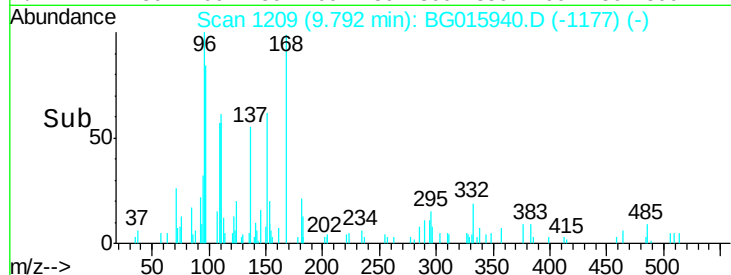
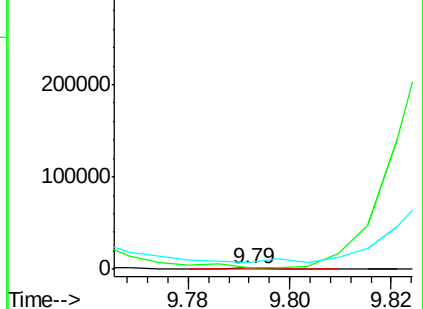
77 582.9 126.4 166.4#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BGC



#35

Caprolactam

Concen: 15.50 ng

RT: 11.40 min Scan# 1482

Delta R.T. -0.01 min

Lab File: BG015940.D

Acq: 27 Jan 2015 10:18

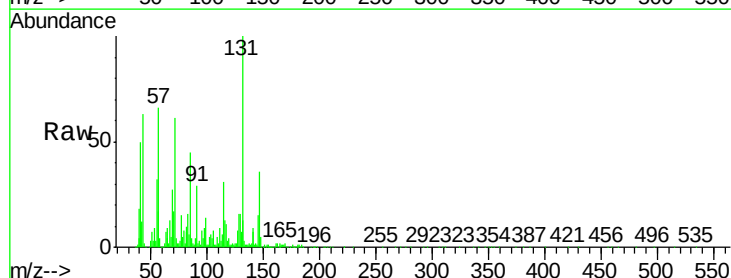
Tgt Ion:113 Resp: 54633

Ion Ratio Lower Upper

113 100

55 538.9 89.2 129.2#

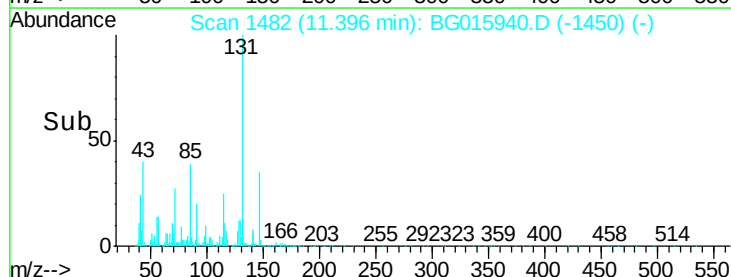
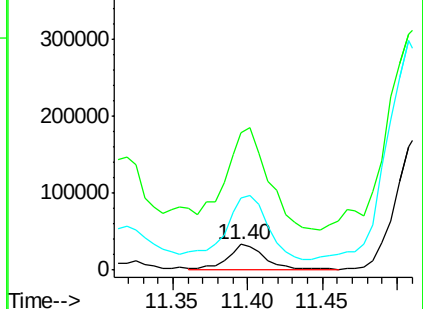
56 283.3 82.4 122.4#

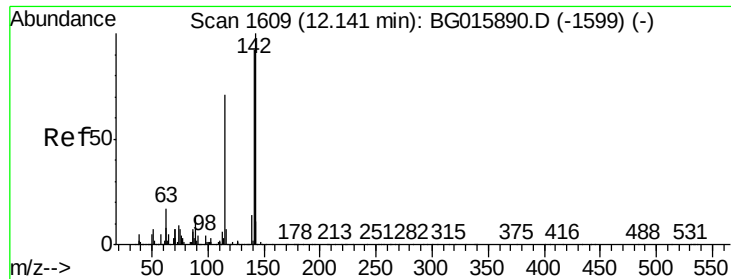


Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BGC

Ion 56.00 (55.70 to 56.70): BGC

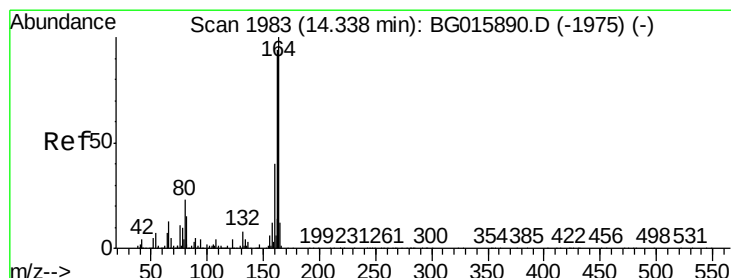
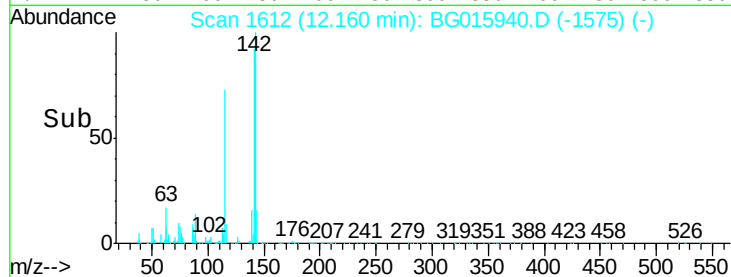
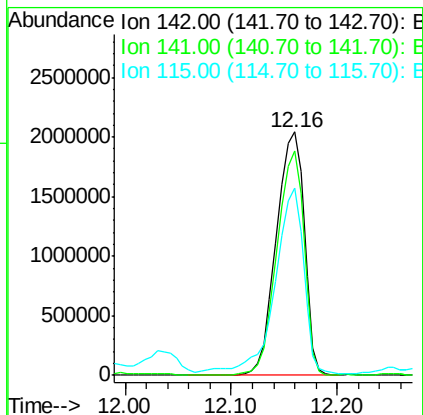
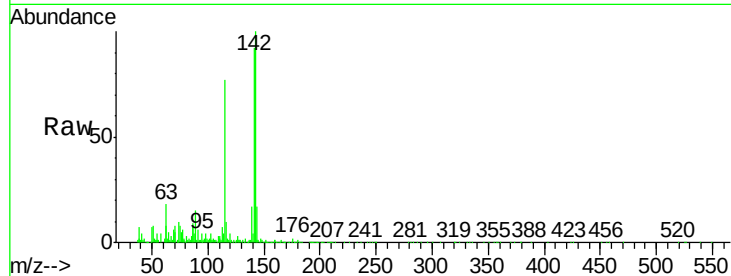




#37  
 2-Methylnaphthalene  
 Concen: 231.23 ng  
 RT: 12.16 min Scan# 1612  
 Delta R.T. 0.02 min  
 Lab File: BG015940.D  
 Acq: 27 Jan 2015 10:18

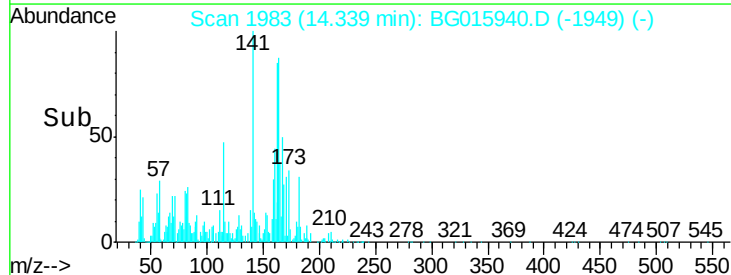
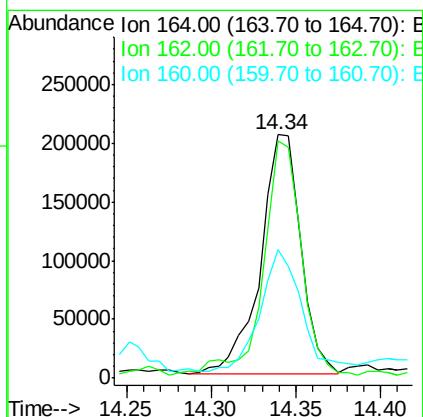
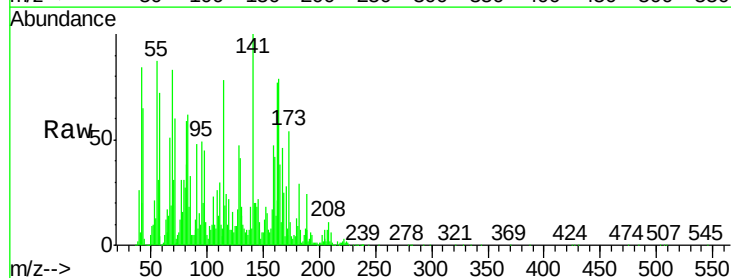
Instrument :  
 BNA\_G  
 ClientSampleId :  
 121B2C

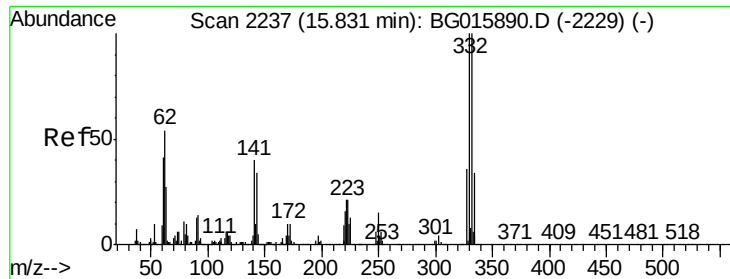
Tgt Ion:142 Resp: 3733892  
 Ion Ratio Lower Upper  
 142 100  
 141 92.2 73.8 110.8  
 115 76.9 56.6 84.8



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 14.34 min Scan# 1983  
 Delta R.T. 0.00 min  
 Lab File: BG015940.D  
 Acq: 27 Jan 2015 10:18

Tgt Ion:164 Resp: 336169  
 Ion Ratio Lower Upper  
 164 100  
 162 97.5 75.1 112.7  
 160 52.7 32.3 48.5#

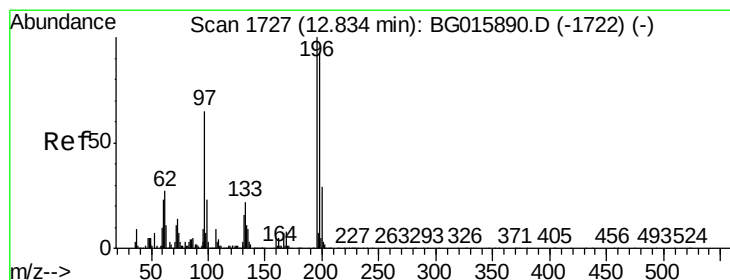
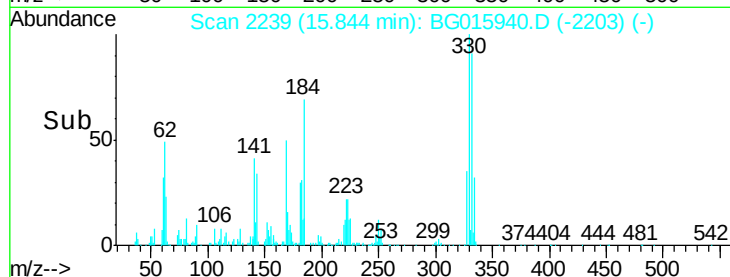
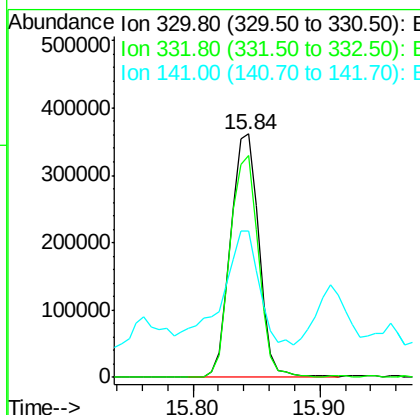
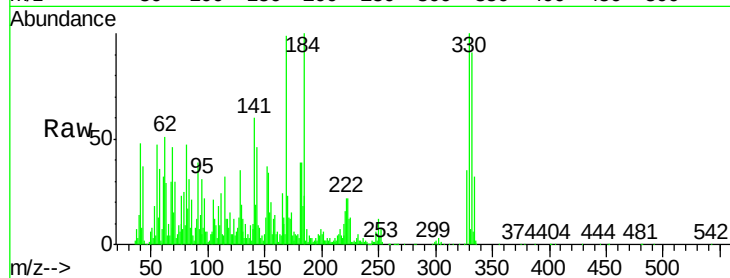




#41  
 2,4,6-Tribromophenol  
 Concen: 90.19 ng  
 RT: 15.84 min Scan# 2239  
 Delta R.T. 0.01 min  
 Lab File: BG015940.D  
 Acq: 27 Jan 2015 10:18

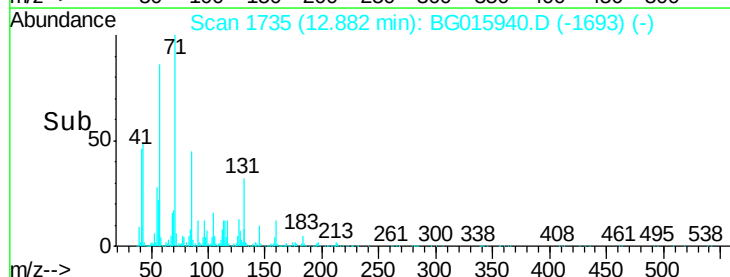
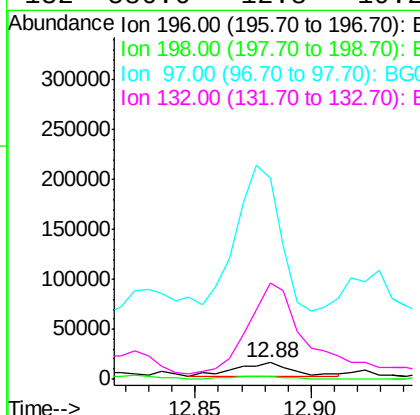
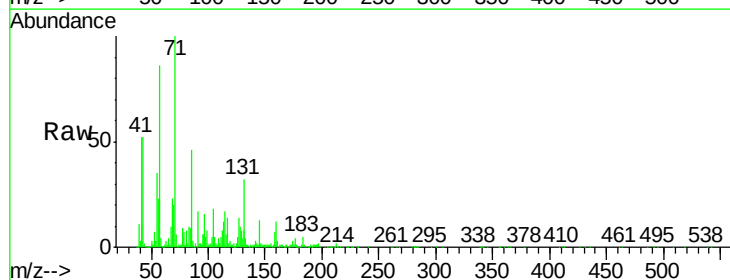
Instrument :  
 BNA\_G  
 ClientSampled :  
 121B2C

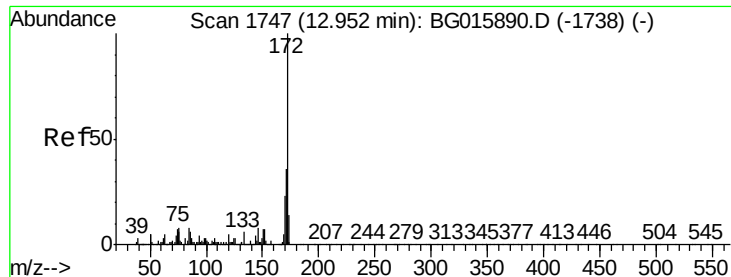
Tgt Ion:330 Resp: 555069  
 Ion Ratio Lower Upper  
 330 100  
 332 91.6 75.4 113.0  
 141 59.8 33.0 49.6#



#43  
 2,4,5-Trichlorophenol  
 Concen: 2.79 ng  
 RT: 12.88 min Scan# 1735  
 Delta R.T. 0.05 min  
 Lab File: BG015940.D  
 Acq: 27 Jan 2015 10:18

Tgt Ion:196 Resp: 23699  
 Ion Ratio Lower Upper  
 196 100  
 198 15.1 74.7 112.1#  
 97 1220.0 52.5 78.7#  
 132 586.6 12.8 19.2#





#44

2-Fluorobiphenyl

Concen: 67.41 ng

RT: 12.96 min Scan# 1748

Delta R.T. 0.01 min

Lab File: BG015940.D

Acq: 27 Jan 2015 10:18

Instrument :

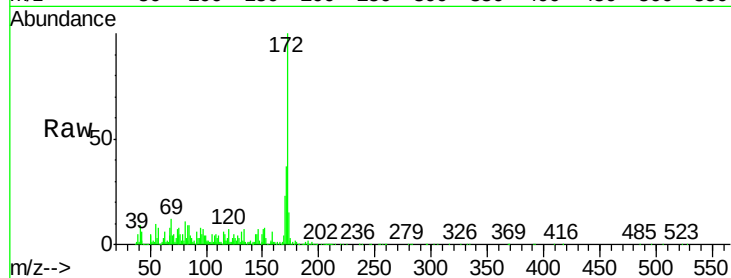
BNA\_G

ClientSampleId :

121B2C

Tgt Ion:172 Resp: 1444376

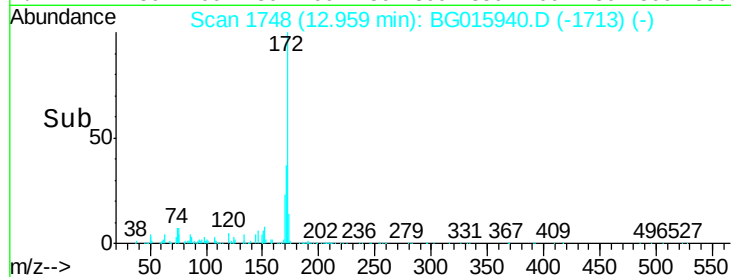
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 37.1  | 29.2  | 43.8  |
| 170 | 23.1  | 18.6  | 27.8  |



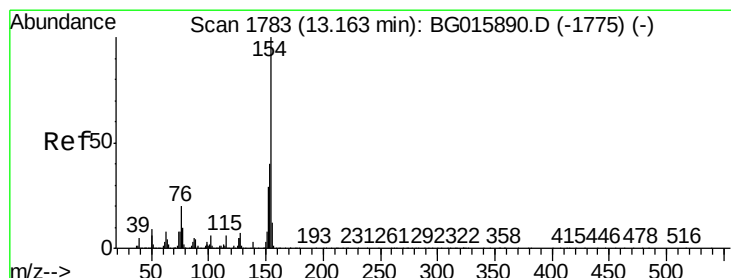
Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



Time-->



#45

1,1'-Biphenyl

Concen: 36.93 ng

RT: 13.17 min Scan# 1784

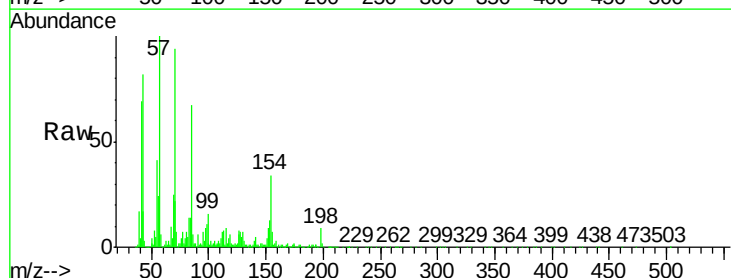
Delta R.T. 0.01 min

Lab File: BG015940.D

Acq: 27 Jan 2015 10:18

Tgt Ion:154 Resp: 783609

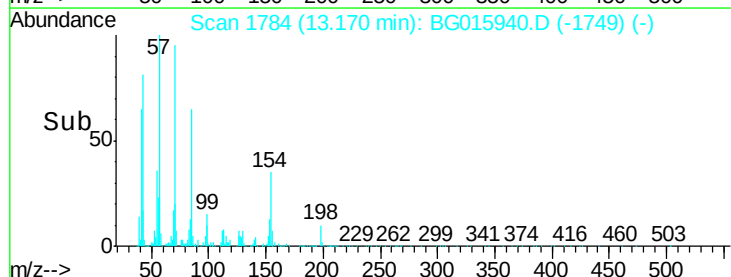
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 154 | 100   |       |       |
| 153 | 39.4  | 20.4  | 60.4  |
| 76  | 12.8  | 0.2   | 40.2  |



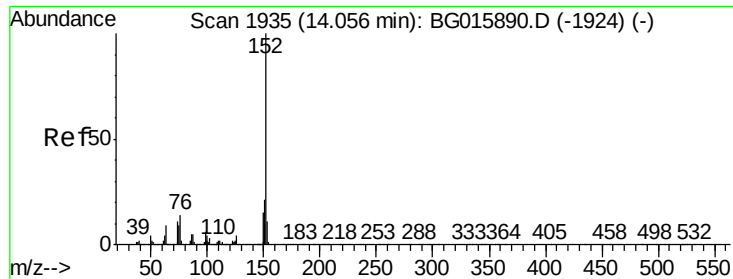
Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BG



Time-->



#48

Acenaphthylene

Concen: 5.89 ng

RT: 14.07 min Scan# 1937

Delta R.T. 0.01 min

Lab File: BG015940.D

Acq: 27 Jan 2015 10:18

Instrument :

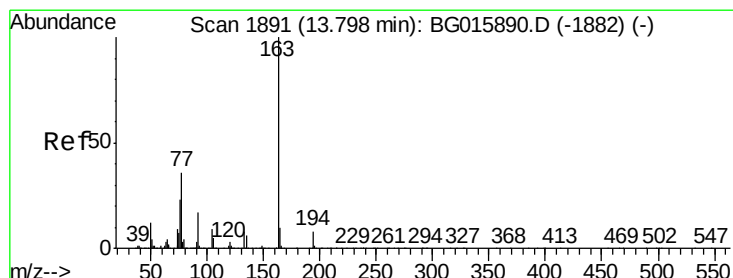
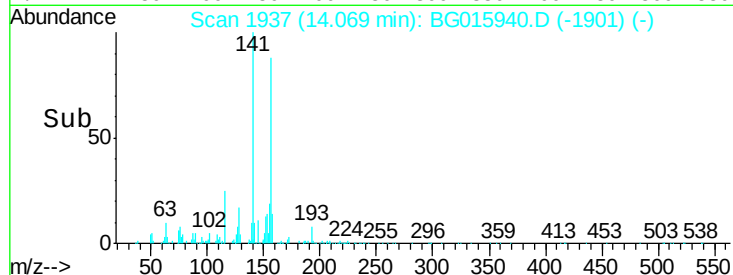
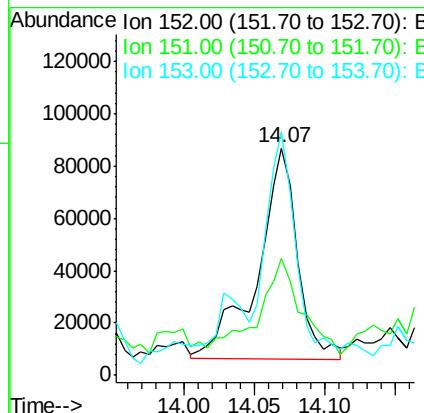
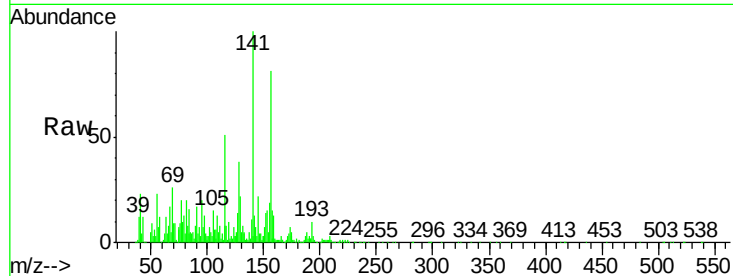
BNA\_G

ClientSampleId :

121B2C

Tgt Ion:152 Resp: 160371

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 151 | 51.5  | 16.6  | 24.8# |
| 153 | 107.1 | 8.9   | 13.3# |



#49

Dimethylphthalate

Concen: 10.11 ng

RT: 13.80 min Scan# 1891

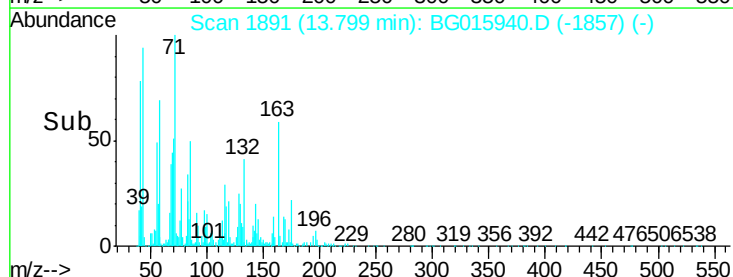
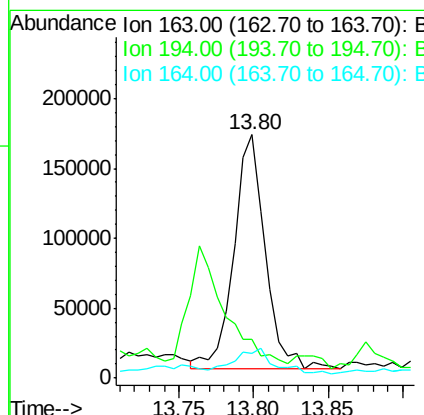
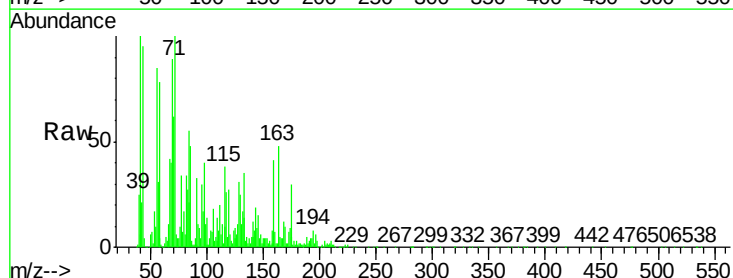
Delta R.T. 0.00 min

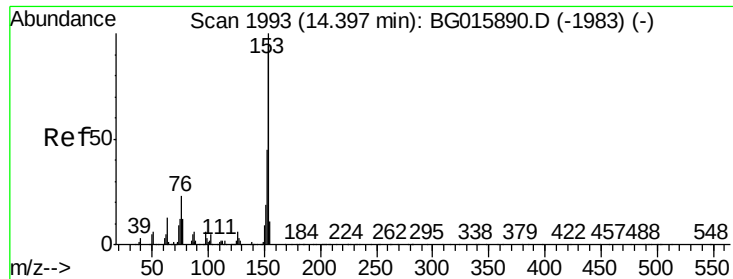
Lab File: BG015940.D

Acq: 27 Jan 2015 10:18

Tgt Ion:163 Resp: 244530

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 163 | 100   |       |       |
| 194 | 15.7  | 6.2   | 9.4#  |
| 164 | 10.3  | 8.0   | 12.0  |





#51

Acenaphthene

Concen: 14.20 ng

RT: 14.40 min Scan# 1994

Delta R.T. 0.01 min

Lab File: BG015940.D

Acq: 27 Jan 2015 10:18

Instrument :

BNA\_G

ClientSampleId :

121B2C

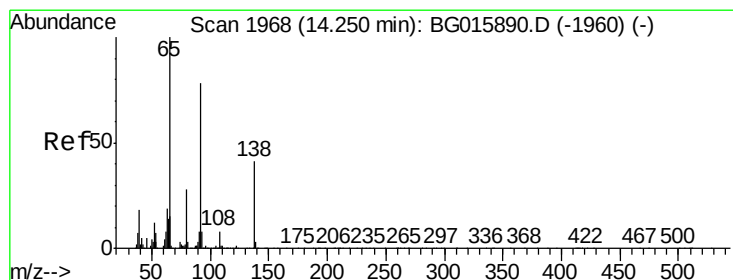
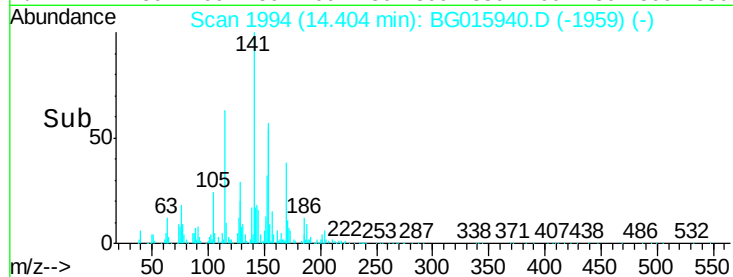
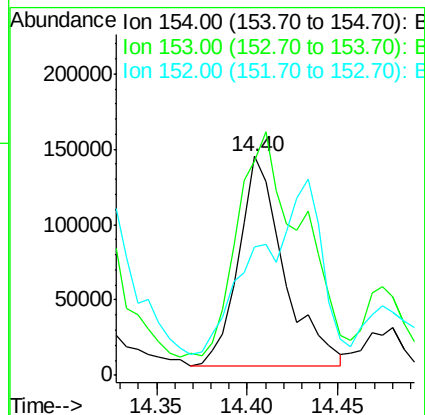
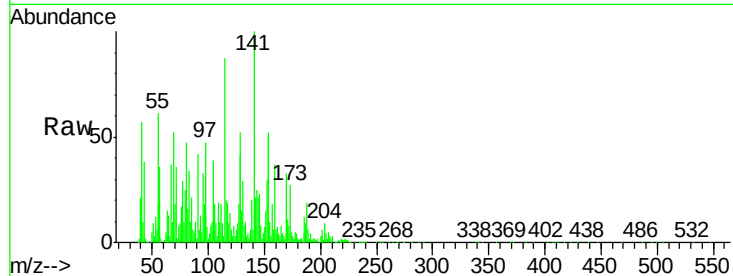
Tgt Ion:154 Resp: 242763

Ion Ratio Lower Upper

154 100

153 97.7 85.1 127.7

152 58.7 38.3 57.5#



#52

3-Nitroaniline

Concen: 3.98 ng

RT: 14.25 min Scan# 1967

Delta R.T. -0.00 min

Lab File: BG015940.D

Acq: 27 Jan 2015 10:18

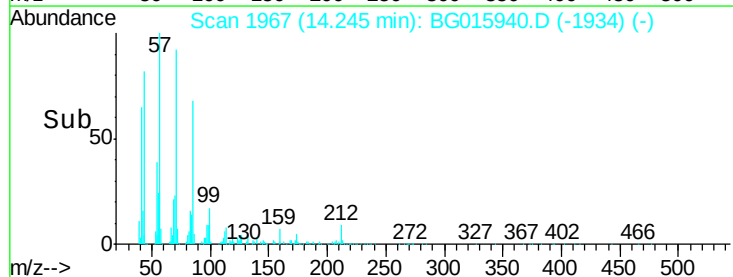
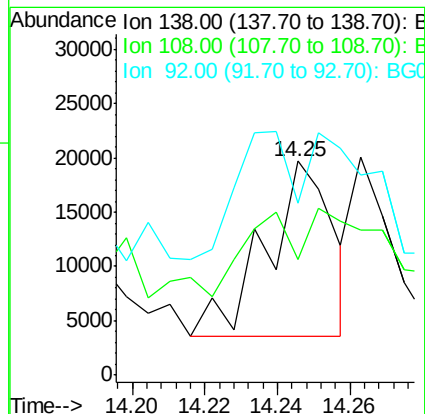
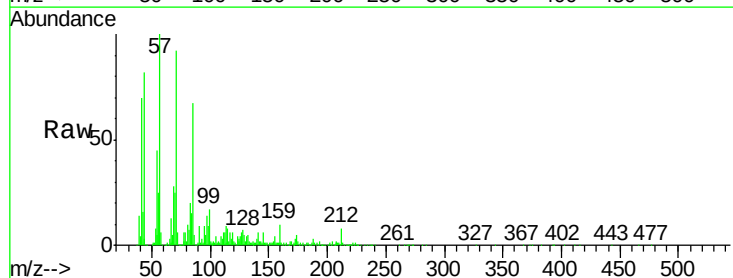
Tgt Ion:138 Resp: 20443

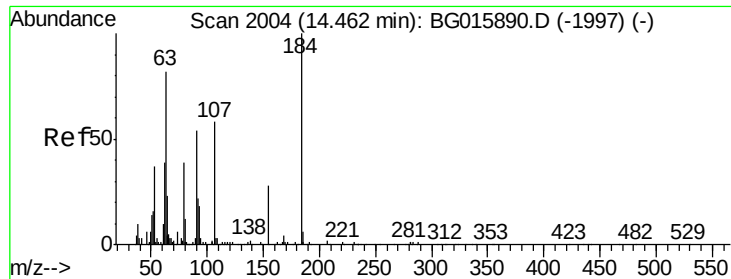
Ion Ratio Lower Upper

138 100

108 54.3 15.9 23.9#

92 80.6 154.0 231.0#

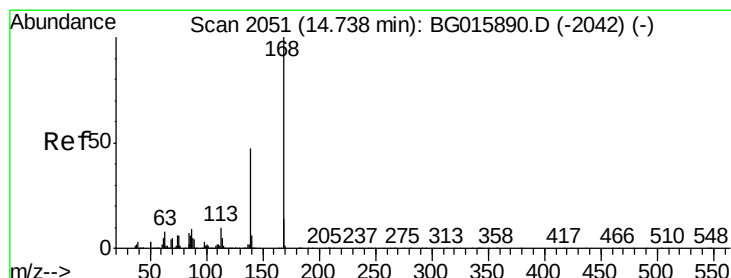
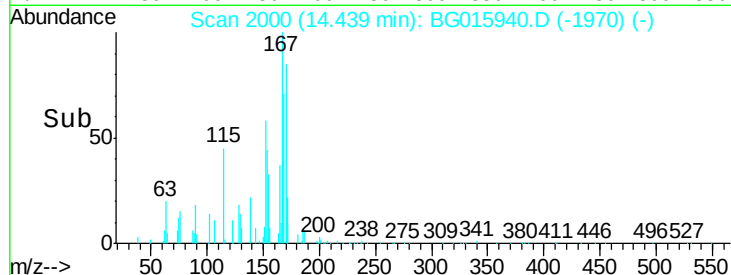
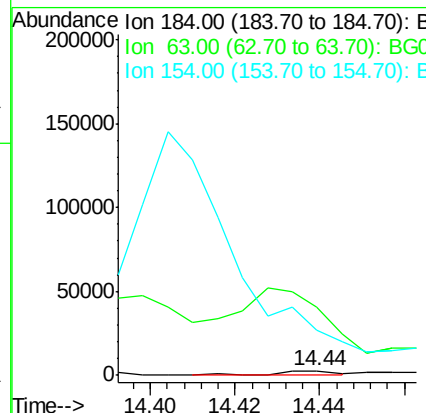
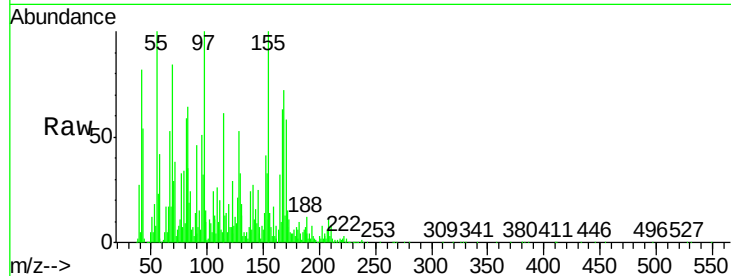




#53  
2,4-Dinitrophenol  
Concen: 5.43 ng  
RT: 14.44 min Scan# 2000  
Delta R.T. -0.02 min  
Lab File: BG015940.D  
Acq: 27 Jan 2015 10:18

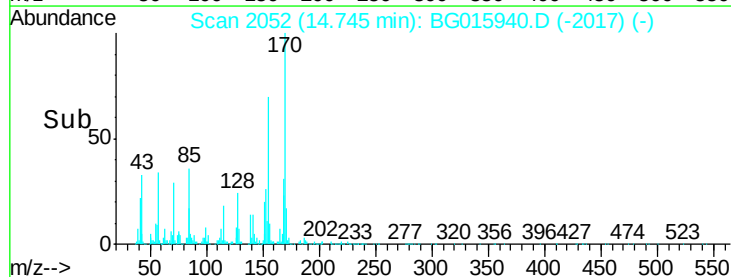
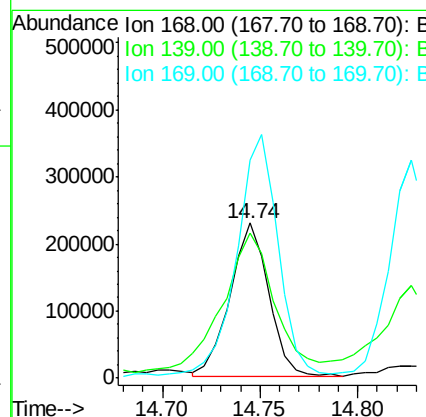
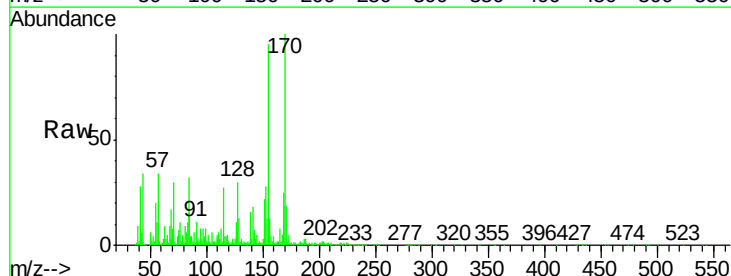
Instrument :  
BNA\_G  
ClientSampleId :  
121B2C

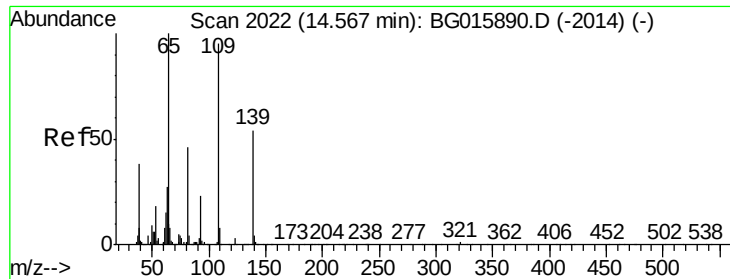
Tgt Ion:184 Resp: 2592  
Ion Ratio Lower Upper  
184 100  
63 1608.6 68.6 103.0#  
154 1055.2 54.9 82.3#



#54  
Dibenzofuran  
Concen: 11.18 ng  
RT: 14.74 min Scan# 2052  
Delta R.T. 0.01 min  
Lab File: BG015940.D  
Acq: 27 Jan 2015 10:18

Tgt Ion:168 Resp: 315432  
Ion Ratio Lower Upper  
168 100  
139 93.8 37.8 56.8#  
169 140.8 11.5 17.3#

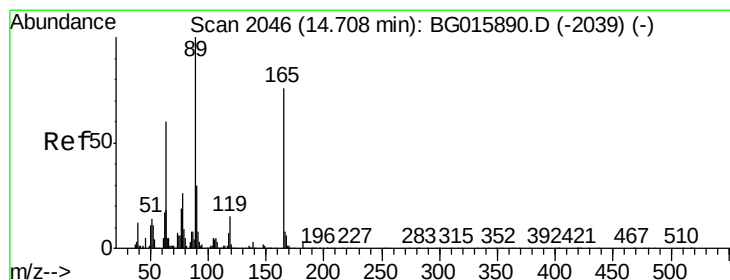
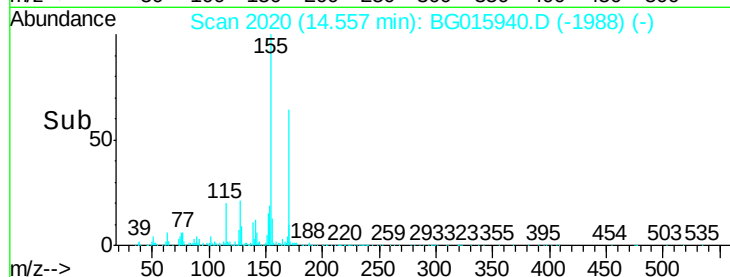
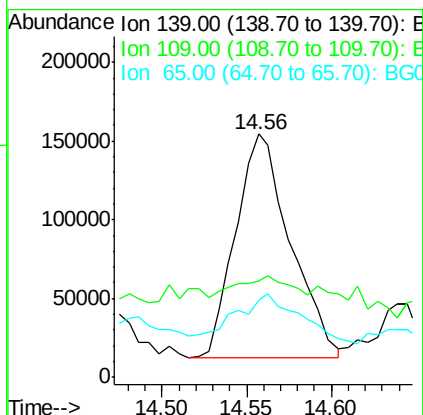
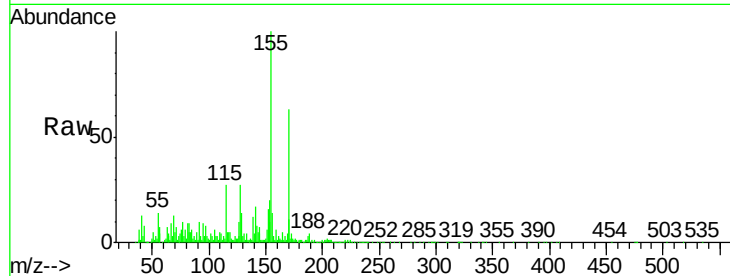




#55  
4-Nitrophenol  
Concen: 90.38 ng  
RT: 14.56 min Scan# 2020  
Delta R.T. -0.01 min  
Lab File: BG015940.D  
Acq: 27 Jan 2015 10:18

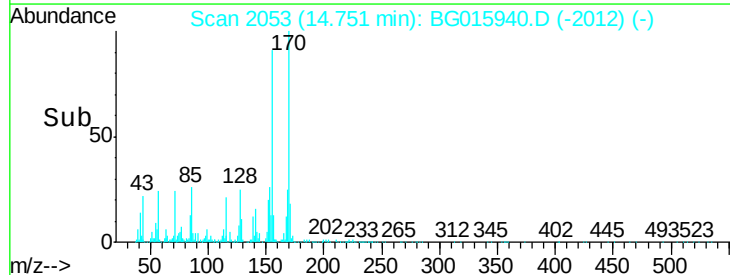
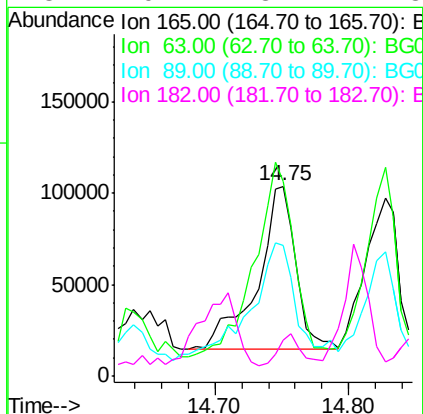
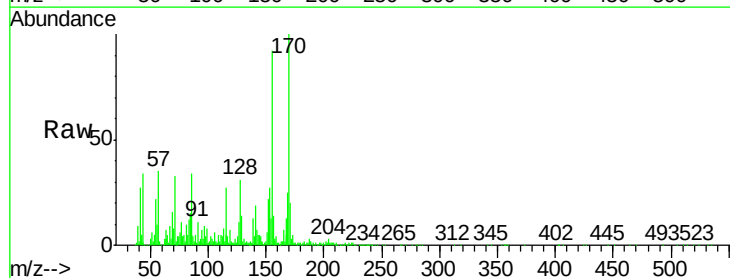
Instrument :  
BNA\_G  
ClientSampleId :  
121B2C

Tgt Ion:139 Resp: 319480  
Ion Ratio Lower Upper  
139 100  
109 39.8 156.3 196.3#  
65 31.5 166.3 206.3#

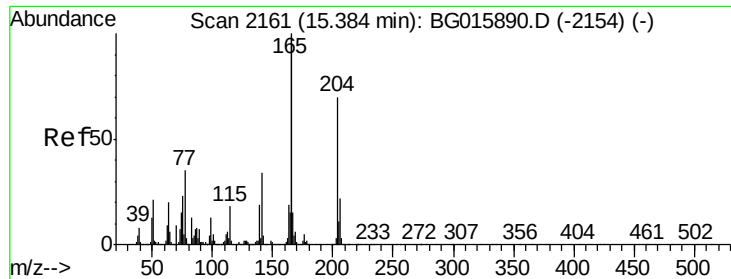


#56  
2,4-Dinitrotoluene  
Concen: 22.09 ng  
RT: 14.75 min Scan# 2053  
Delta R.T. 0.04 min  
Lab File: BG015940.D  
Acq: 27 Jan 2015 10:18

Tgt Ion:165 Resp: 176518  
Ion Ratio Lower Upper  
165 100  
63 102.9 62.6 93.8#  
89 69.0 104.6 157.0#  
182 19.2 3.2 4.8#



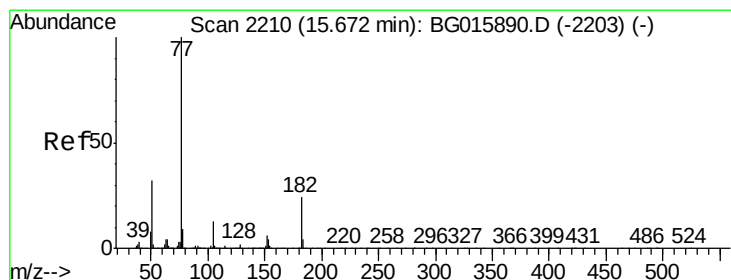
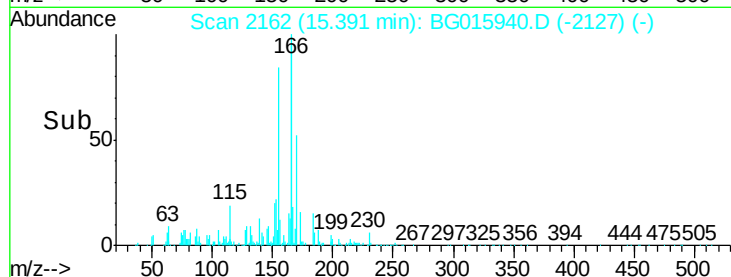
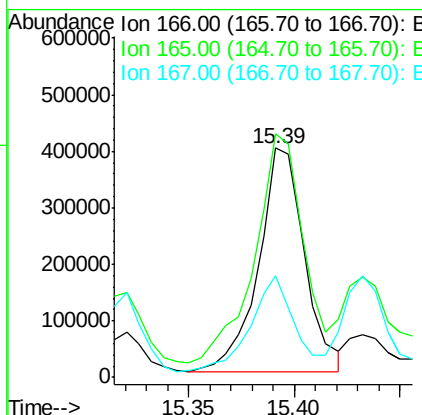
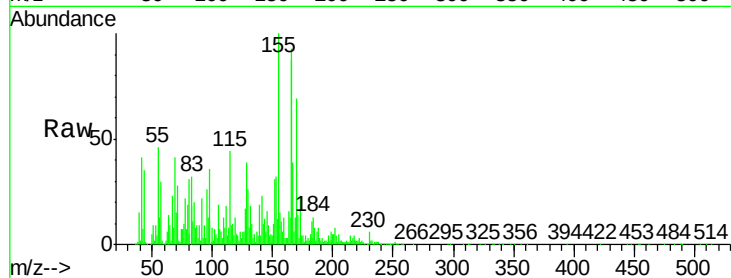




#57  
**Fluorene**  
 Concen: 23.71 ng  
 RT: 15.39 min Scan# 2162  
 Delta R.T. 0.01 min  
 Lab File: BG015940.D  
 Acq: 27 Jan 2015 10:18

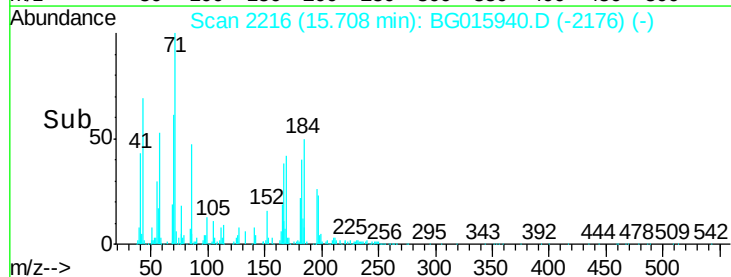
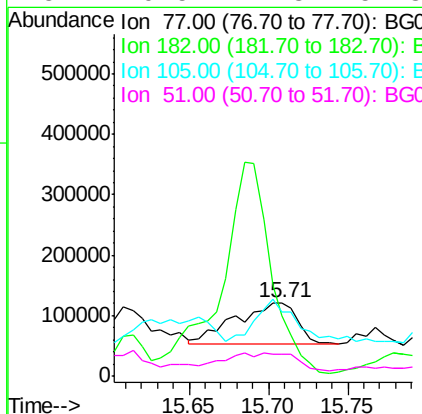
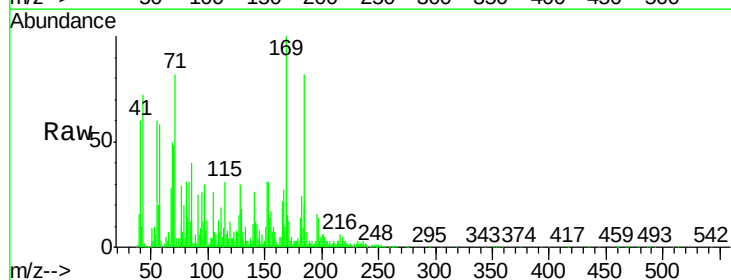
Instrument :  
 BNA\_G  
 ClientSampleId :  
 121B2C

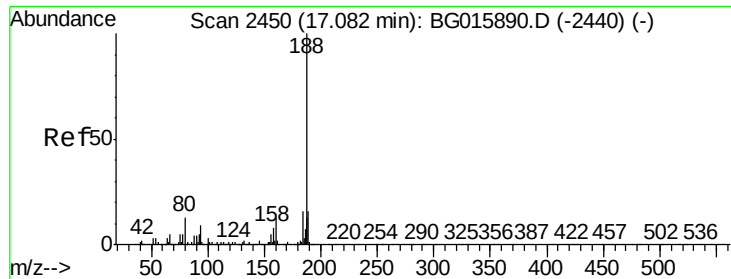
Tgt Ion:166 Resp: 603345  
 Ion Ratio Lower Upper  
 166 100  
 165 106.2 80.6 120.8  
 167 44.4 12.5 18.7#



#62  
**Azobenzene**  
 Concen: 4.59 ng  
 RT: 15.71 min Scan# 2216  
 Delta R.T. 0.04 min  
 Lab File: BG015940.D  
 Acq: 27 Jan 2015 10:18

Tgt Ion: 77 Resp: 183722  
 Ion Ratio Lower Upper  
 77 100  
 182 82.7 3.6 43.6#  
 105 87.9 0.0 32.9#  
 51 29.5 11.8 51.8

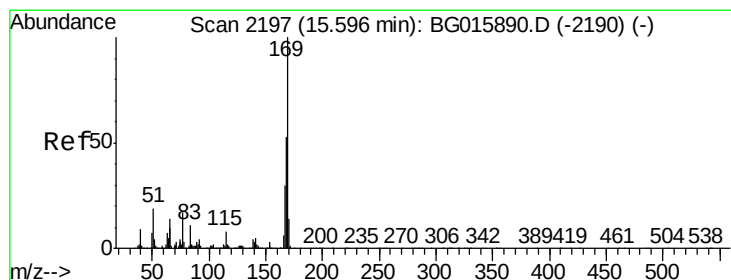
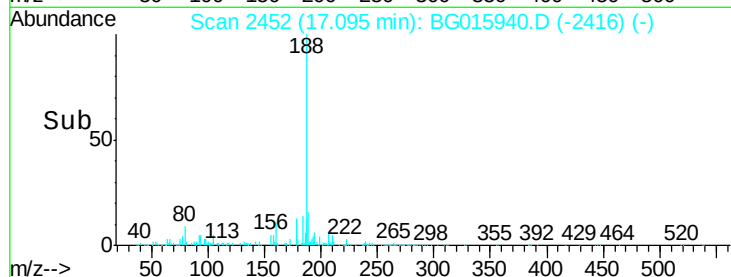
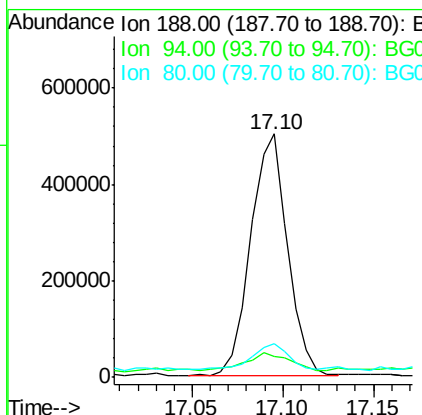
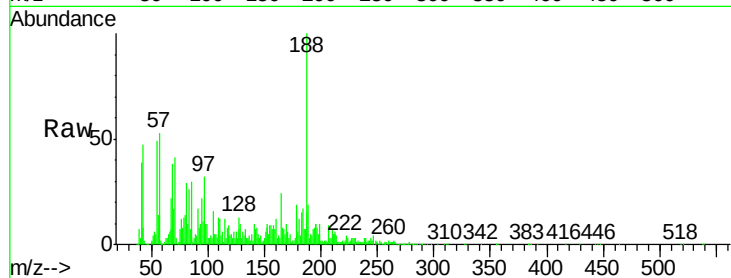




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.10 min Scan# 2452  
Delta R.T. 0.01 min  
Lab File: BG015940.D  
Acq: 27 Jan 2015 10:18

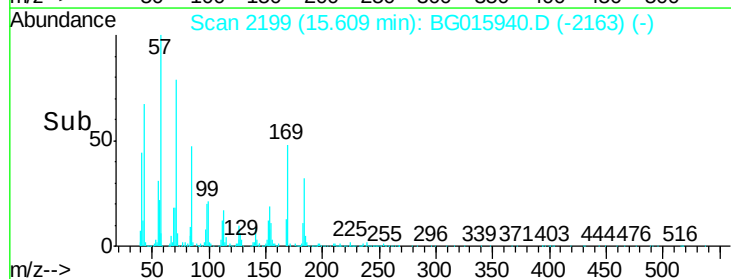
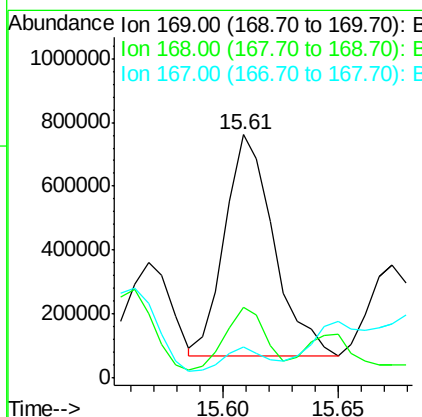
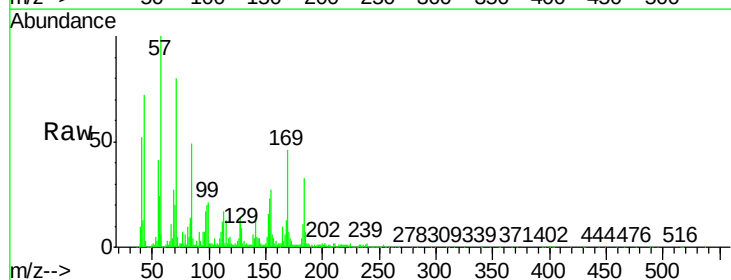
Instrument :  
BNA\_G  
ClientSampleId :  
121B2C

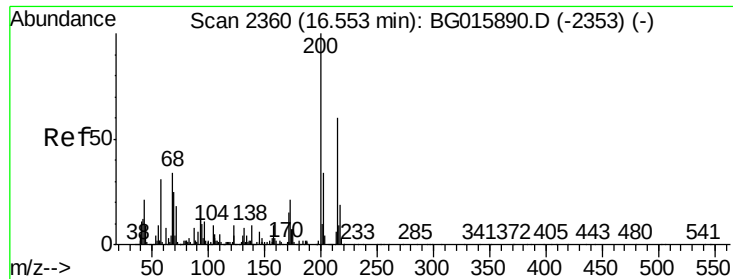
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.7   | 7.8   | 11.8  |
| 80      | 13.7  | 10.6  | 16.0  |



#65  
n-Nitrosodiphenylamine  
Concen: 50.59 ng  
RT: 15.61 min Scan# 2199  
Delta R.T. 0.01 min  
Lab File: BG015940.D  
Acq: 27 Jan 2015 10:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 169     | 100   |       |       |
| 168     | 29.0  | 42.3  | 63.5# |
| 167     | 12.9  | 24.2  | 36.2# |





#68

Atrazine

Concen: 3.06 ng

RT: 16.55 min Scan# 2359

Delta R.T. -0.00 min

Lab File: BG015940.D

Acq: 27 Jan 2015 10:18

Instrument :

BNA\_G

ClientSampleId :

121B2C

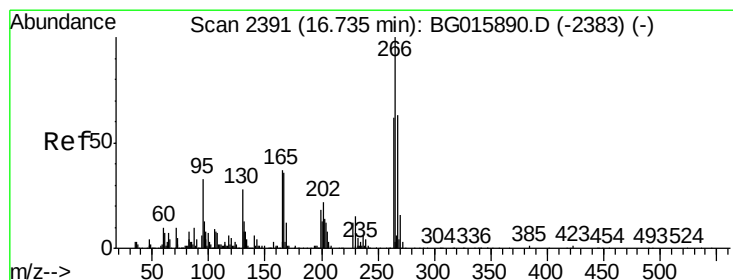
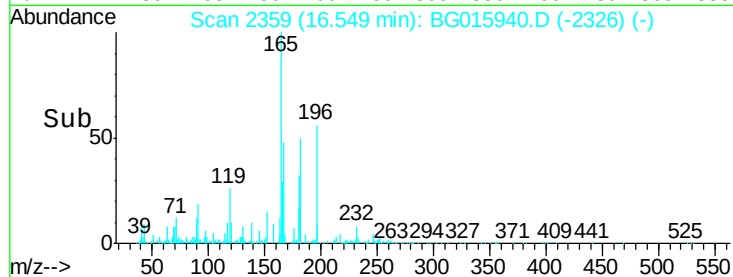
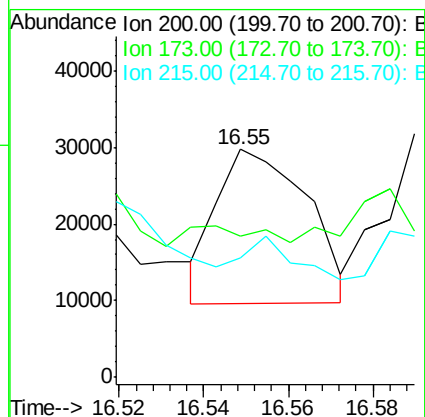
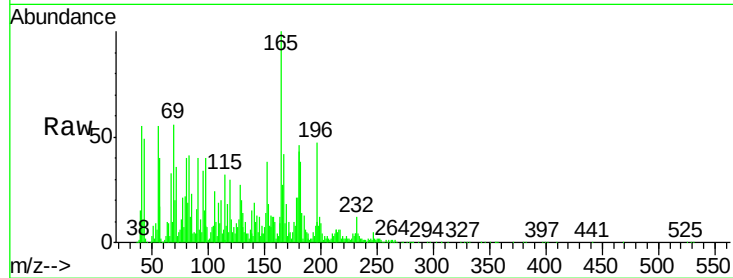
Tgt Ion:200 Resp: 29762

Ion Ratio Lower Upper

200 100

173 62.1 0.8 40.8#

215 52.7 40.0 80.0



#69

Pentachlorophenol

Concen: 7.60 ng

RT: 16.76 min Scan# 2395

Delta R.T. 0.03 min

Lab File: BG015940.D

Acq: 27 Jan 2015 10:18

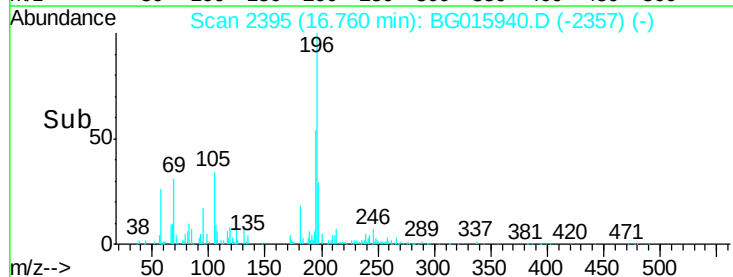
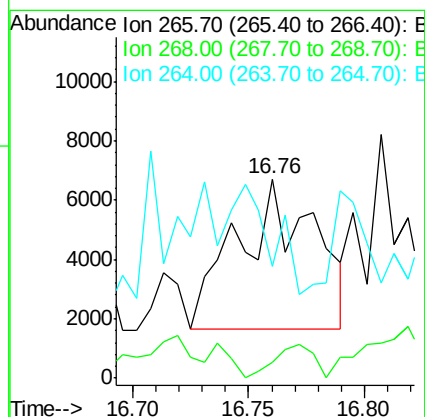
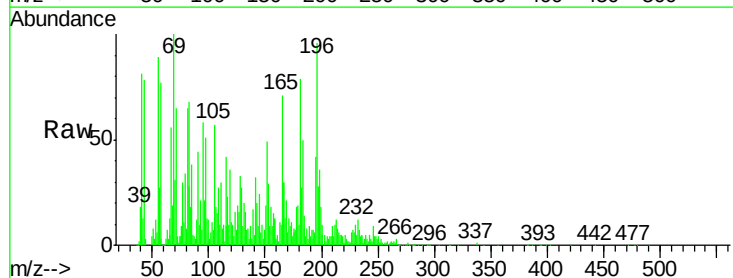
Tgt Ion:266 Resp: 11557

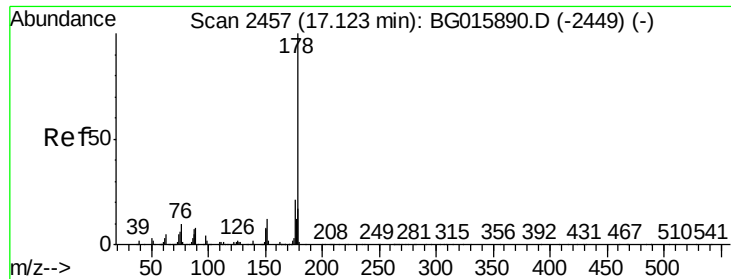
Ion Ratio Lower Upper

266 100

268 7.7 53.5 80.3#

264 55.9 51.9 77.9





#70

Phenanthrene

Concen: 54.19 ng

RT: 17.14 min Scan# 2459

Delta R.T. 0.01 min

Lab File: BG015940.D

Acq: 27 Jan 2015 10:18

Instrument :

BNA\_G

ClientSampleId :

121B2C

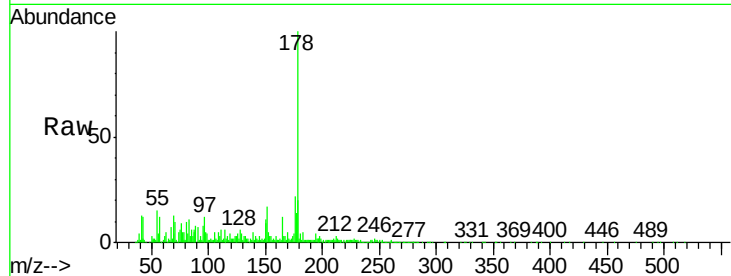
Tgt Ion:178 Resp: 1926573

Ion Ratio Lower Upper

178 100

176 22.1 16.9 25.3

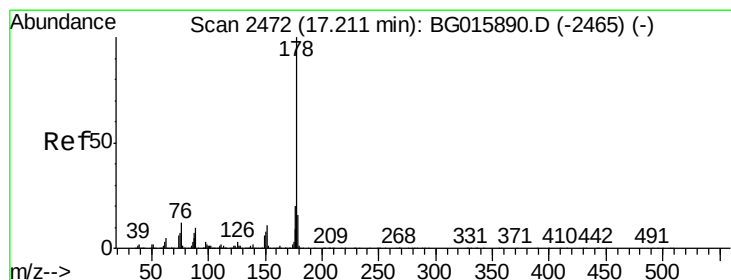
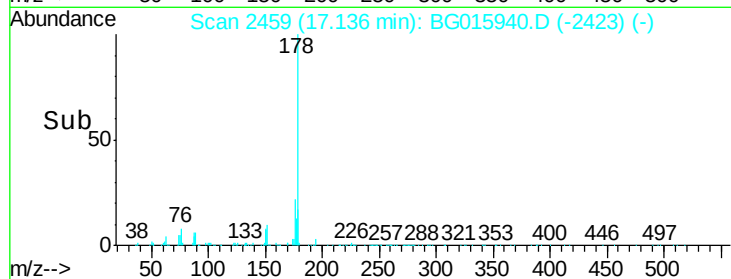
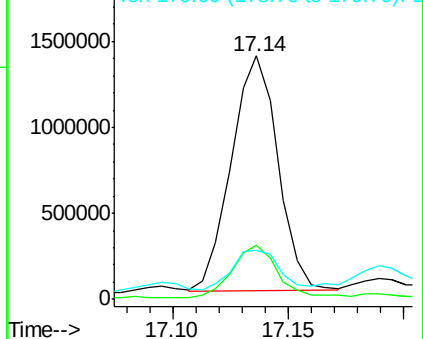
179 20.1 13.3 19.9#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 2.69 ng

RT: 17.22 min Scan# 2473

Delta R.T. 0.01 min

Lab File: BG015940.D

Acq: 27 Jan 2015 10:18

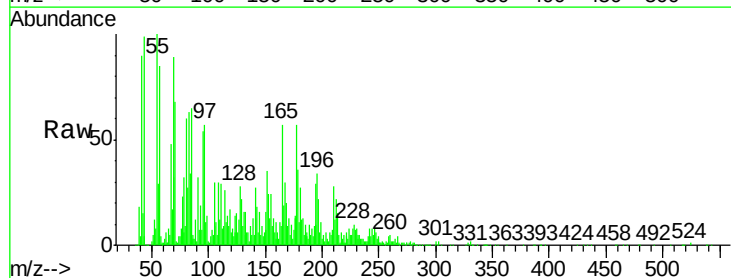
Tgt Ion:178 Resp: 93967

Ion Ratio Lower Upper

178 100

176 23.1 15.7 23.5

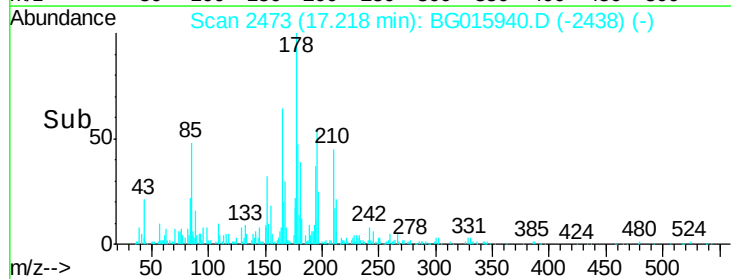
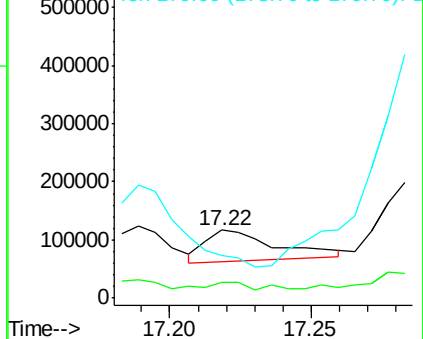
179 63.0 12.7 19.1#

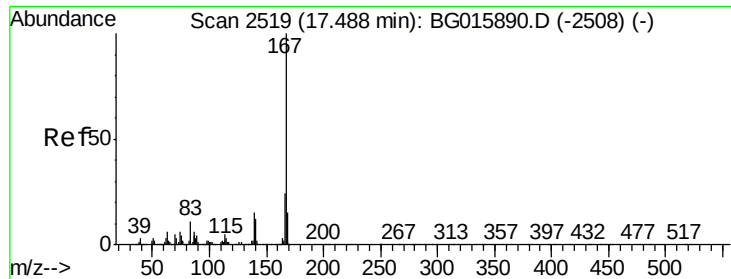


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 3.45 ng

RT: 17.49 min Scan# 2520

Delta R.T. 0.01 min

Lab File: BG015940.D

Acq: 27 Jan 2015 10:18

Instrument :

BNA\_G

ClientSampleId :

121B2C

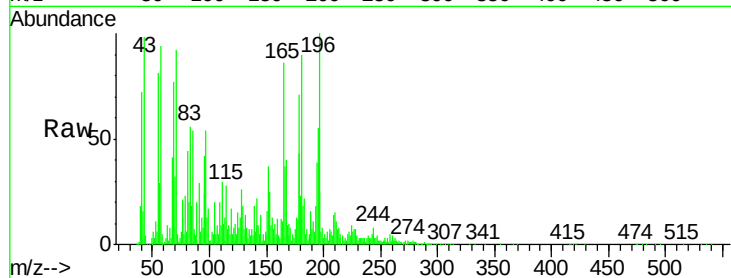
Tgt Ion:167 Resp: 106153

Ion Ratio Lower Upper

167 100

166 90.9 19.4 29.2#

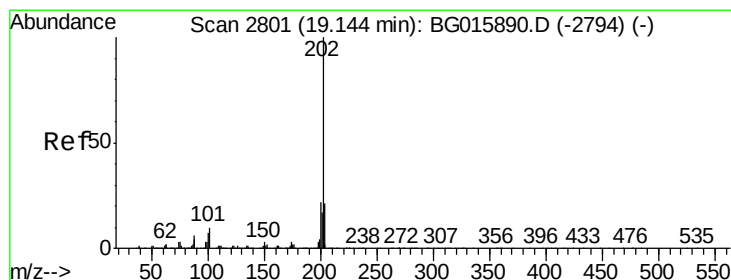
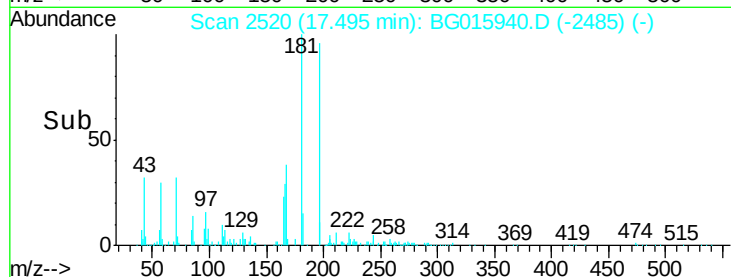
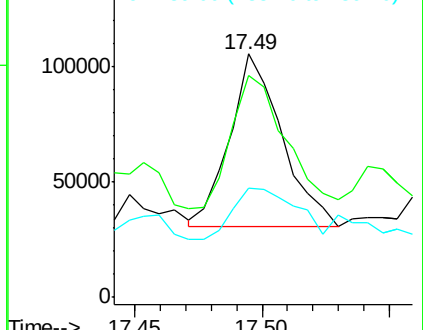
139 45.0 12.2 18.2#



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 2.40 ng

RT: 19.15 min Scan# 2802

Delta R.T. 0.01 min

Lab File: BG015940.D

Acq: 27 Jan 2015 10:18

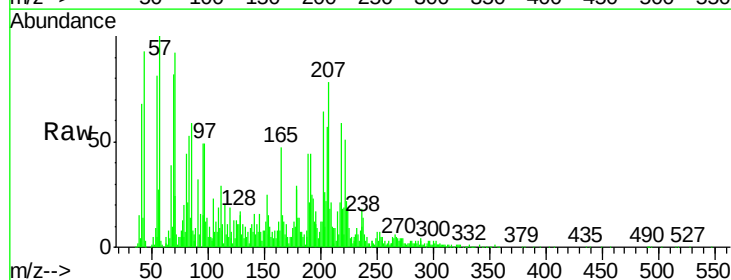
Tgt Ion:202 Resp: 113792

Ion Ratio Lower Upper

202 100

101 16.4 0.0 29.5

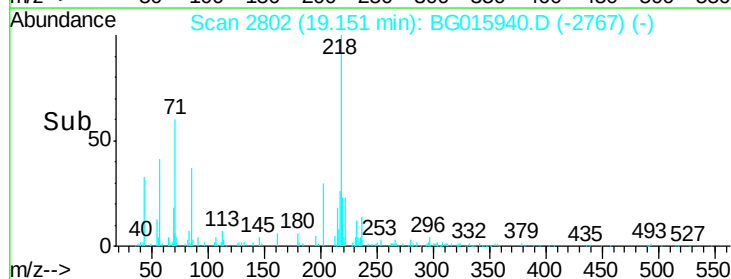
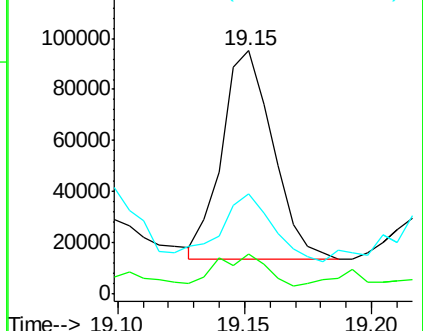
203 41.1 0.9 40.9#

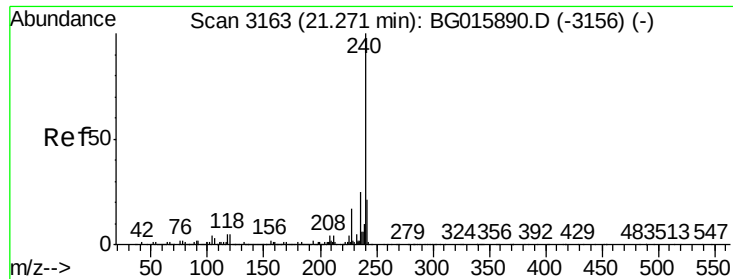


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.27 min Scan# 3162

Delta R.T. -0.00 min

Lab File: BG015940.D

Acq: 27 Jan 2015 10:18

Instrument :

BNA\_G

ClientSampled :

121B2C

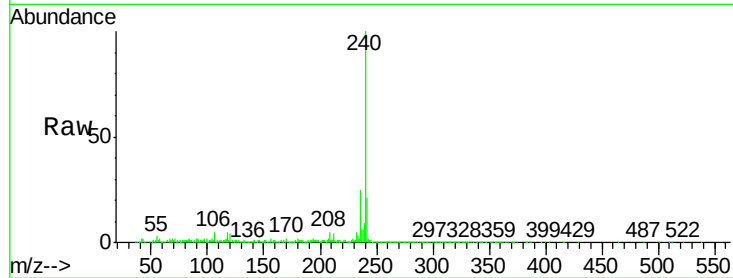
Tgt Ion:240 Resp: 1009559

Ion Ratio Lower Upper

240 100

120 4.4 3.9 5.9

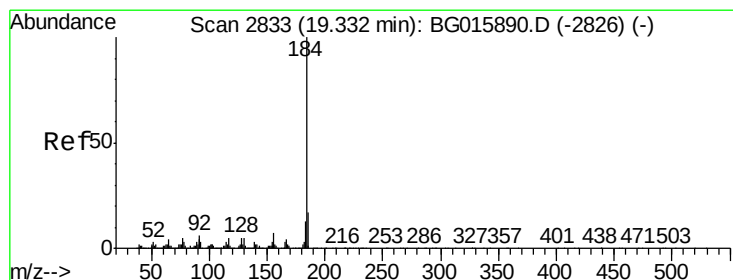
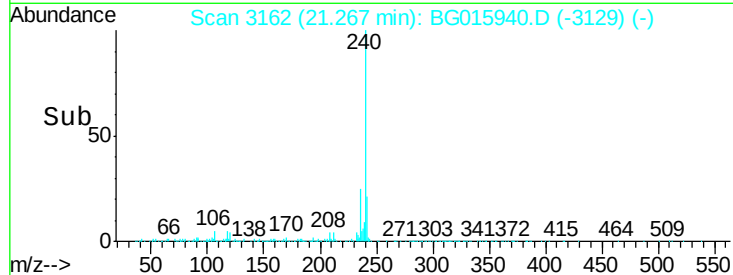
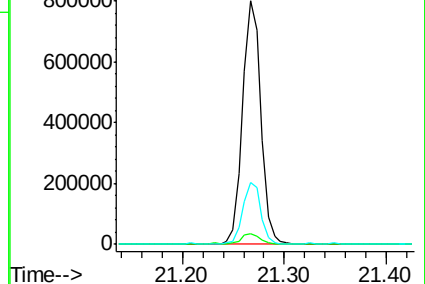
236 25.3 20.0 30.0



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



#76

Benzidine

Concen: 2.59 ng

RT: 19.31 min Scan# 2829

Delta R.T. -0.02 min

Lab File: BG015940.D

Acq: 27 Jan 2015 10:18

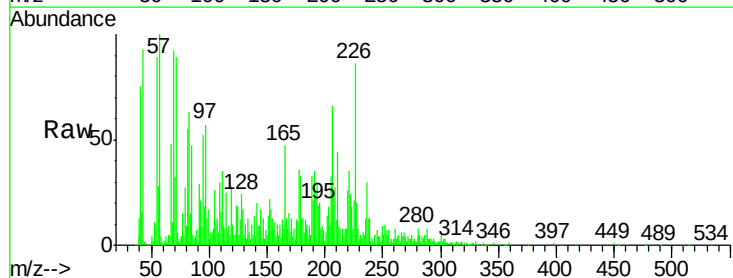
Tgt Ion:184 Resp: 15551

Ion Ratio Lower Upper

184 100

185 72.2 13.3 19.9#

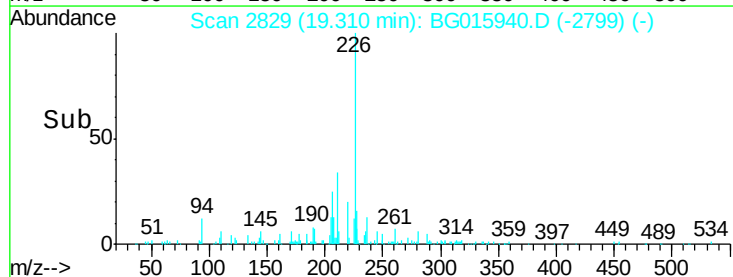
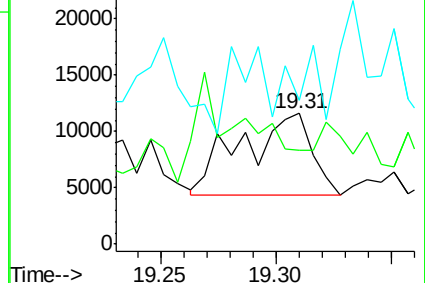
183 110.4 10.1 15.1#

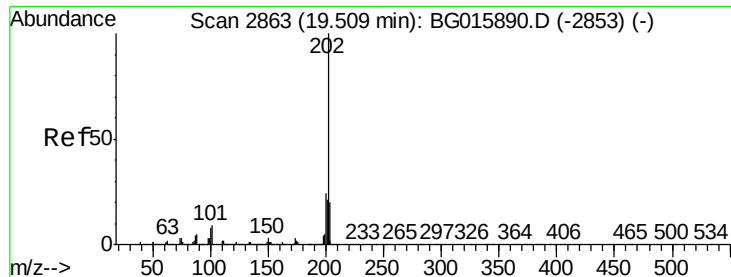


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#77

Pyrene

Concen: 11.46 ng

RT: 19.52 min Scan# 2864

Delta R.T. 0.01 min

Lab File: BG015940.D

Acq: 27 Jan 2015 10:18

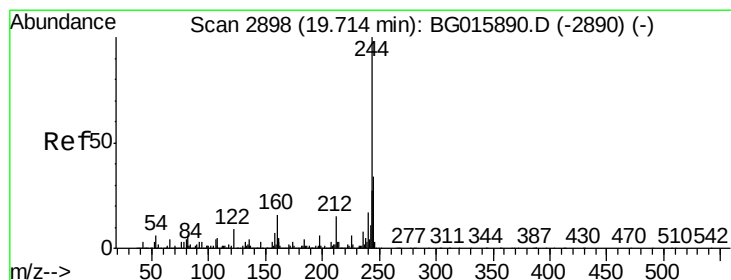
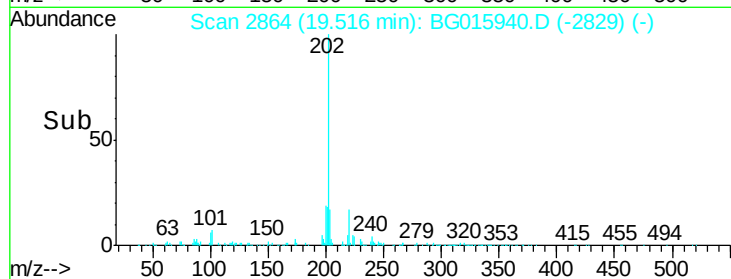
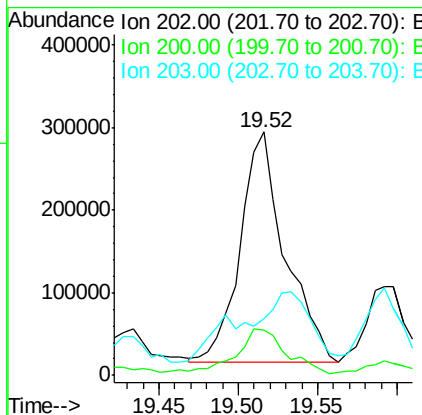
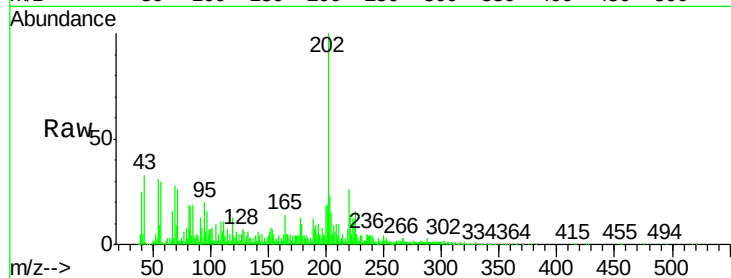
Instrument :

BNA\_G

ClientSampleId :

121B2C

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 202   | Resp: | 550027 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 200      | 18.4  | 19.3  | 28.9#  |
| 203      | 23.3  | 15.9  | 23.9   |



#78

Terphenyl-d14

Concen: 69.36 ng

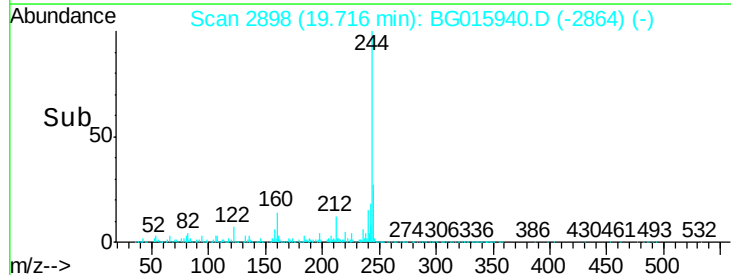
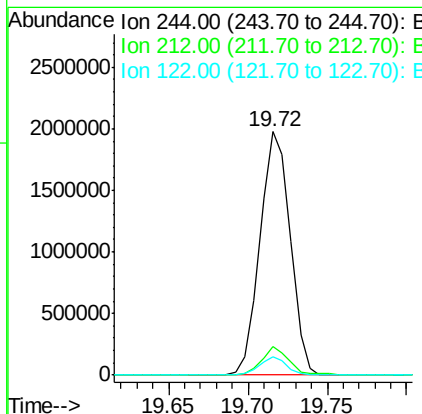
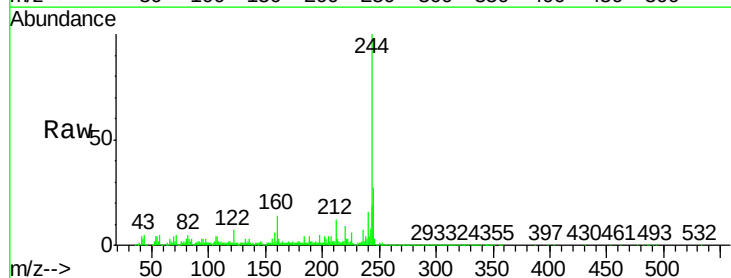
RT: 19.72 min Scan# 2898

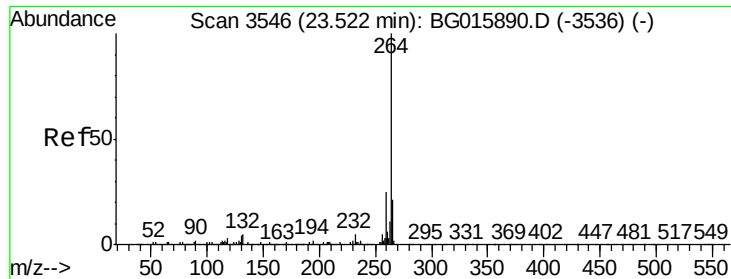
Delta R.T. 0.00 min

Lab File: BG015940.D

Acq: 27 Jan 2015 10:18

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 244   | Resp: | 2626326 |
| Ion      | Ratio | Lower | Upper   |
| 244      | 100   |       |         |
| 212      | 11.9  | 11.6  | 17.4    |
| 122      | 7.3   | 7.0   | 10.4    |





#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 23.52 min Scan# 3546  
Delta R.T. 0.00 min  
Lab File: BG015940.D  
Acq: 27 Jan 2015 10:18

Instrument :  
BNA\_G  
ClientSampleId :  
121B2C

Tgt Ion:264 Resp: 1015630  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.0  | 19.7  | 29.5  |
| 265 | 21.5  | 17.3  | 25.9  |

