

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG012615\  
 Data File : BG015959.D  
 Acq On : 27 Jan 2015 23:43  
 Operator : TP/IZ  
 Sample : G1158-05  
 Misc :  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CC-5

Quant Time: Jan 28 03:19:40 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG012015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jan 28 01:36:36 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.68  | 152  | 74914    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.47 | 136  | 301480   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 14.33 | 164  | 246541   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 17.08 | 188  | 661989   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 21.27 | 240  | 925598   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 23.52 | 264  | 889626   | 20.00 | ng    | 0.00     |

|                             |       |     |         |       |    |      |
|-----------------------------|-------|-----|---------|-------|----|------|
| System Monitoring Compounds |       |     |         |       |    |      |
| 5) 2-Fluorophenol           | 5.28  | 112 | 120942  | 24.04 | ng | 0.00 |
| 7) Phenol-d6                | 6.88  | 99  | 596572  | 73.59 | ng | 0.00 |
| 23) Nitrobenzene-d5         | 8.84  | 82  | 682470  | 65.25 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol    | 15.83 | 330 | 86935   | 19.26 | ng | 0.00 |
| 44) 2-Fluorobiphenyl        | 12.95 | 172 | 1304600 | 83.03 | ng | 0.00 |
| 78) Terphenyl-d14           | 19.71 | 244 | 2577505 | 76.45 | ng | 0.00 |

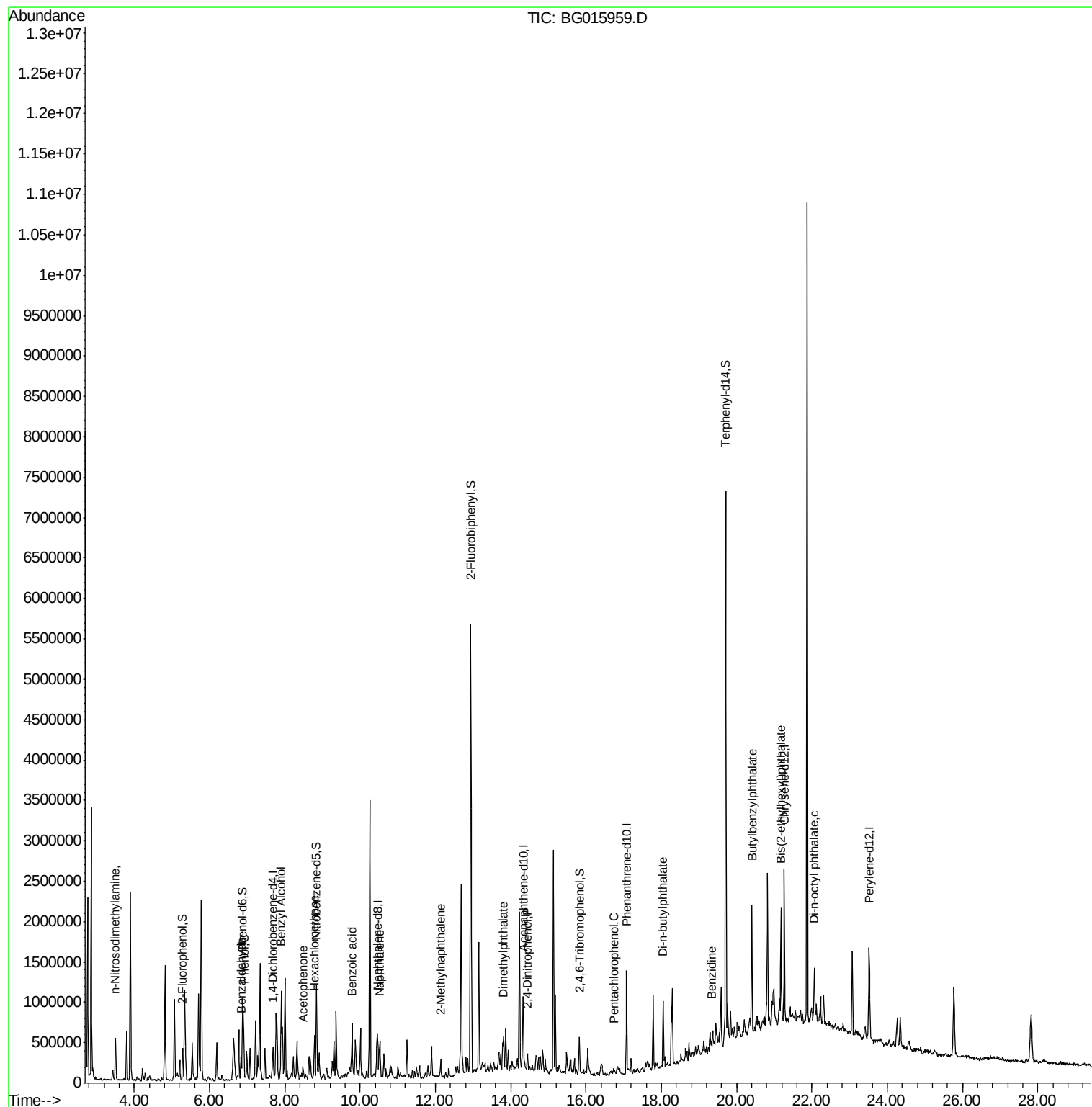
|                                |       |     |        |       |    |        |
|--------------------------------|-------|-----|--------|-------|----|--------|
| Target Compounds               |       |     |        |       |    | Qvalue |
| 4) n-Nitrosodimethylamine      | 3.50  | 42  | 26397  | 7.82  | ng | # 1    |
| 9) Benzaldehyde                | 6.83  | 77  | 24526  | 3.32  | ng | # 1    |
| 10) Phenol                     | 6.91  | 94  | 29780  | 3.22  | ng | # 30   |
| 15) Benzyl Alcohol             | 7.91  | 79  | 124461 | 14.03 | ng | # 66   |
| 18) Hexachloroethane           | 8.79  | 117 | 40106  | 13.23 | ng | # 1    |
| 22) Acetophenone               | 8.48  | 105 | 86956  | 8.61  | ng | # 56   |
| 31) Naphthalene                | 10.52 | 128 | 225268 | 14.60 | ng | 97     |
| 32) Benzoic acid               | 9.80  | 122 | 317    | 10.50 | ng | # 1    |
| 37) 2-Methylnaphthalene        | 12.14 | 142 | 81221  | 6.63  | ng | # 77   |
| 49) Dimethylphthalate          | 13.79 | 163 | 44667  | 2.52  | ng | # 89   |
| 53) 2,4-Dinitrophenol          | 14.44 | 184 | 201    | 4.60  | ng | # 36   |
| 69) Pentachlorophenol          | 16.73 | 266 | 764    | 5.39  | ng | # 17   |
| 73) Di-n-butylphthalate        | 18.05 | 149 | 467298 | 14.13 | ng | 97     |
| 76) Benzidine                  | 19.34 | 184 | 4005   | 2.16  | ng | # 4    |
| 79) Butylbenzylphthalate       | 20.41 | 149 | 234082 | 14.52 | ng | 97     |
| 83) Bis(2-ethylhexyl)phthalate | 21.18 | 149 | 219623 | 10.13 | ng | # 92   |
| 84) Di-n-octyl phthalate       | 22.06 | 149 | 466272 | 13.90 | ng | 99     |

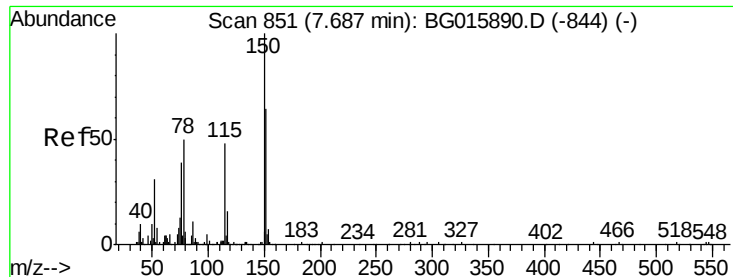
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG012615\  
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Instrument :  
BNA\_G  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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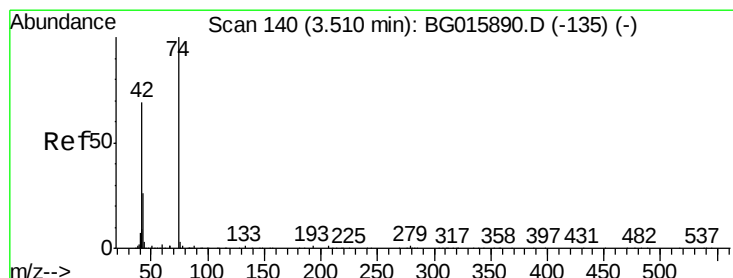
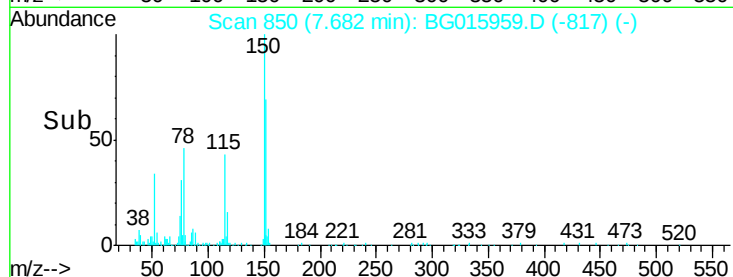
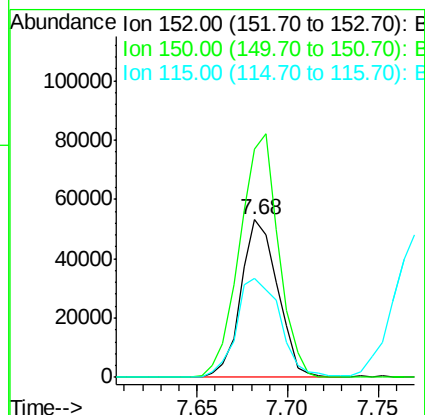
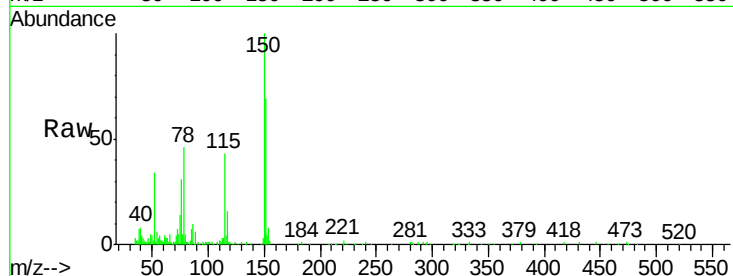


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.68 min Scan# 850  
Delta R.T. -0.01 min  
Lab File: BG015959.D  
Acq: 27 Jan 2015 23:43

Instrument :  
BNA\_G  
ClientSampleId :  
CC-5

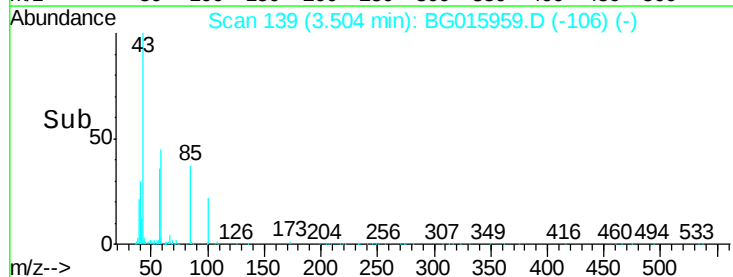
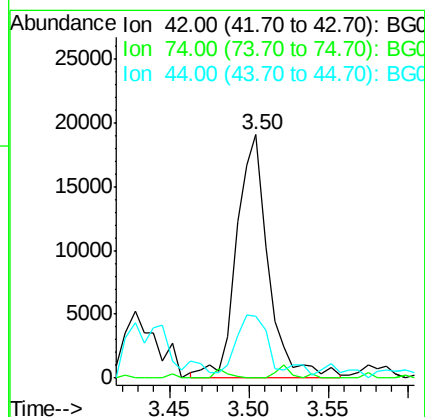
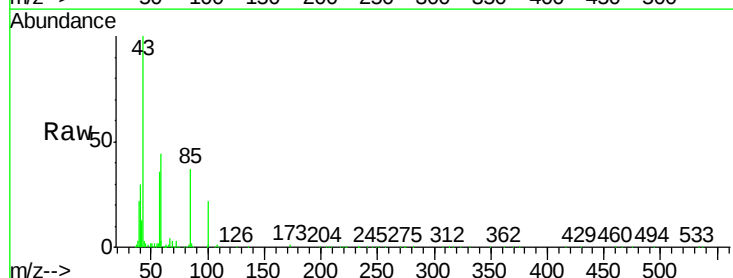
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 144.7 | 124.5 | 186.7 |
| 115     | 62.8  | 60.4  | 90.6  |

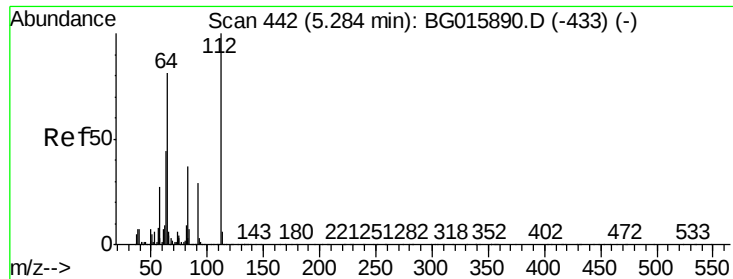


#4

n-Nitrosodimethylamine  
Concen: 7.82 ng  
RT: 3.50 min Scan# 139  
Delta R.T. -0.01 min  
Lab File: BG015959.D  
Acq: 27 Jan 2015 23:43

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 42      | 100   |       |        |
| 74      | 0.0   | 116.0 | 174.0# |
| 44      | 25.4  | 3.8   | 5.8#   |





#5

2-Fluorophenol

Concen: 24.04 ng

RT: 5.28 min Scan# 442

Delta R.T. 0.01 min

Lab File: BG015959.D

Acq: 27 Jan 2015 23:43

Instrument :

BNA\_G

ClientSampleId :

CC-5

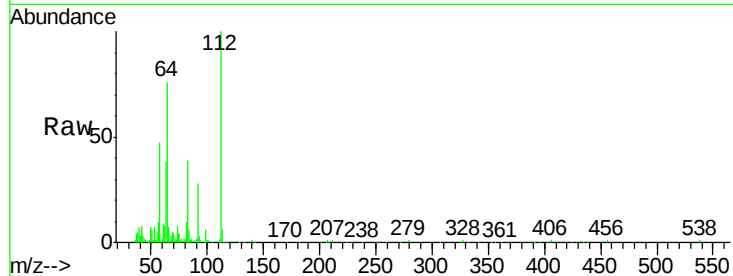
Tgt Ion: 112 Resp: 120942

Ion Ratio Lower Upper

112 100

64 75.5 64.4 96.6

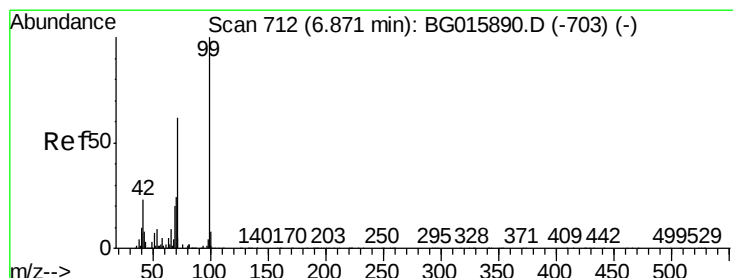
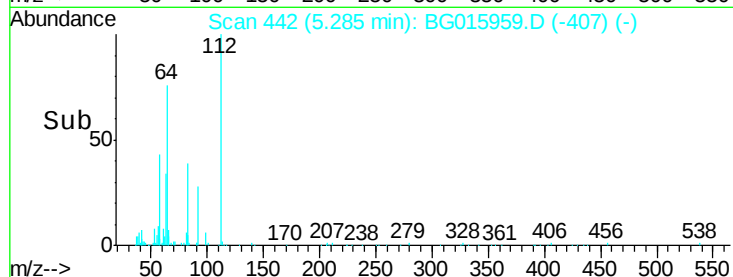
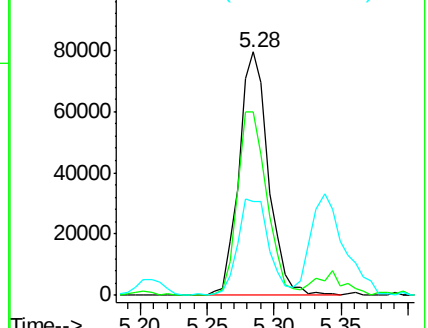
63 38.4 35.1 52.7



Abundance Ion 112.00 (111.70 to 112.70): BGC

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC



#7

Phenol-d6

Concen: 73.59 ng

RT: 6.88 min Scan# 713

Delta R.T. 0.01 min

Lab File: BG015959.D

Acq: 27 Jan 2015 23:43

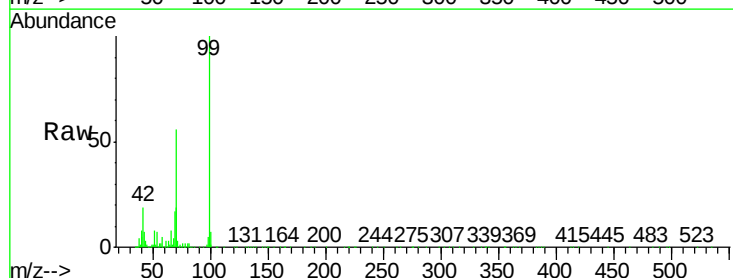
Tgt Ion: 99 Resp: 596572

Ion Ratio Lower Upper

99 100

42 19.3 18.1 27.1

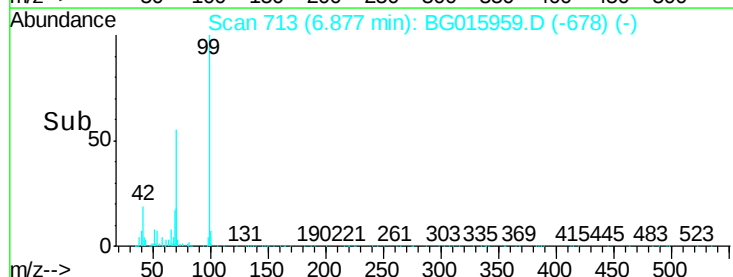
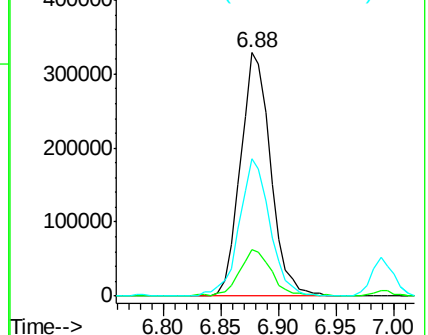
71 56.4 49.8 74.8

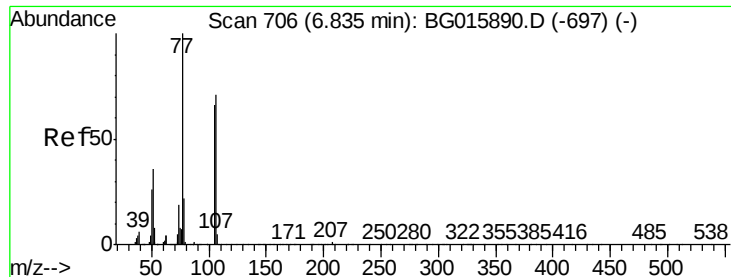


Abundance Ion 99.00 (98.70 to 99.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 71.00 (70.70 to 71.70): BGC





#9

Benzaldehyde

Concen: 3.32 ng

RT: 6.83 min Scan# 705

Delta R.T. 0.00 min

Lab File: BG015959.D

Acq: 27 Jan 2015 23:43

Instrument :

BNA\_G

ClientSampleId :

CC-5

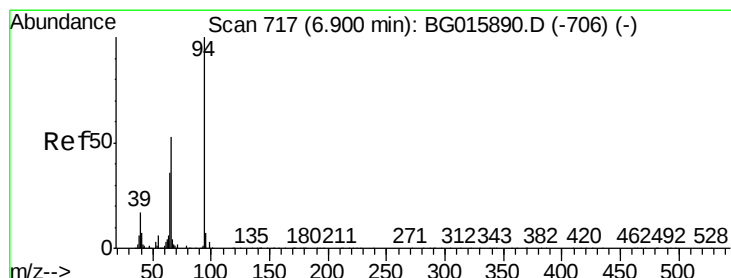
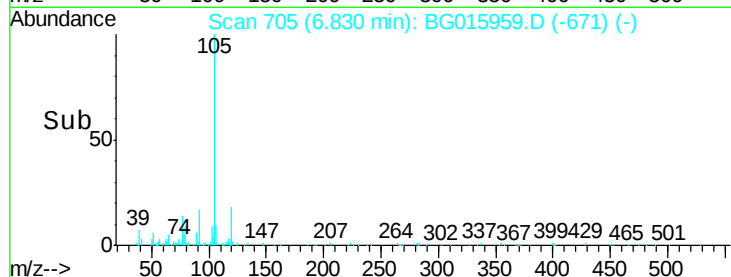
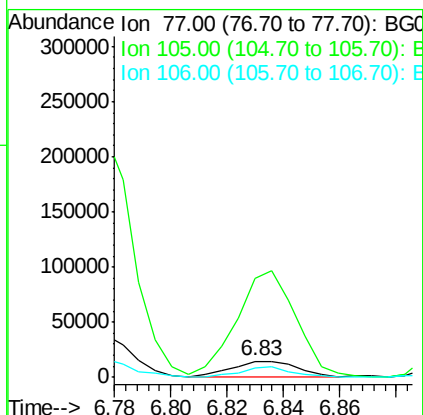
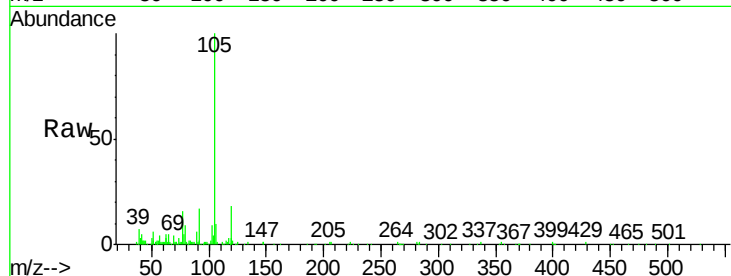
Tgt Ion: 77 Resp: 24526

Ion Ratio Lower Upper

77 100

105 611.1 46.0 86.0#

106 61.6 51.1 91.1



#10

Phenol

Concen: 3.22 ng

RT: 6.91 min Scan# 718

Delta R.T. 0.01 min

Lab File: BG015959.D

Acq: 27 Jan 2015 23:43

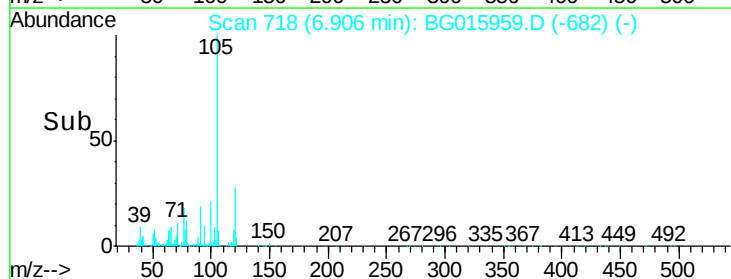
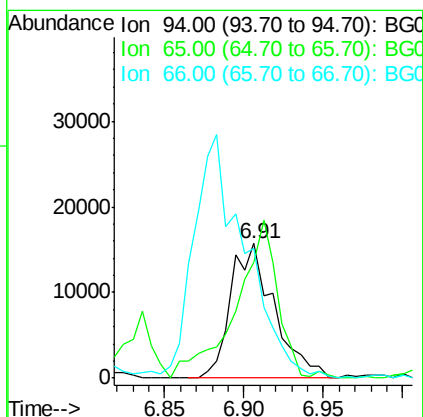
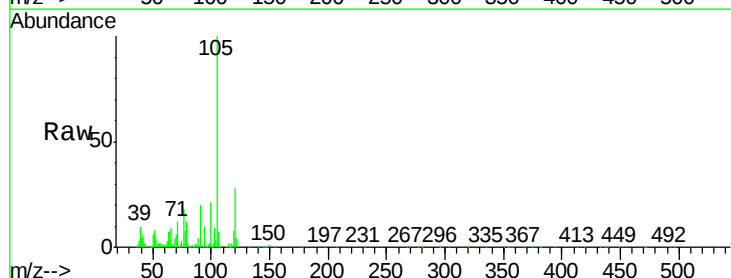
Tgt Ion: 94 Resp: 29780

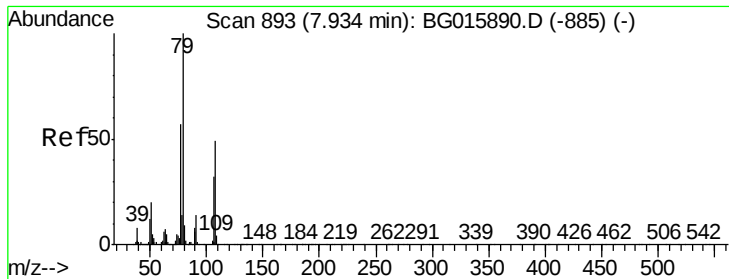
Ion Ratio Lower Upper

94 100

65 85.9 16.5 56.5#

66 96.3 33.3 73.3#





#15

Benzyl Alcohol

Concen: 14.03 ng

RT: 7.91 min Scan# 888

Delta R.T. -0.02 min

Lab File: BG015959.D

Acq: 27 Jan 2015 23:43

Instrument :

BNA\_G

ClientSampleId :

CC-5

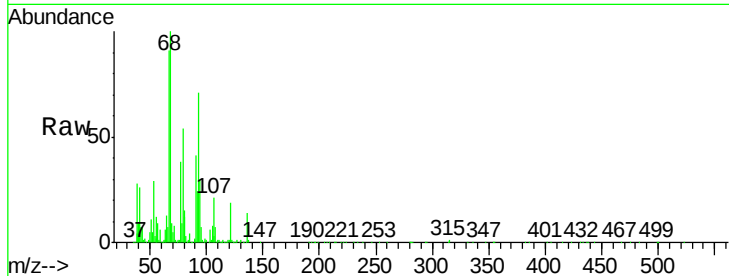
Tgt Ion: 79 Resp: 124461

Ion Ratio Lower Upper

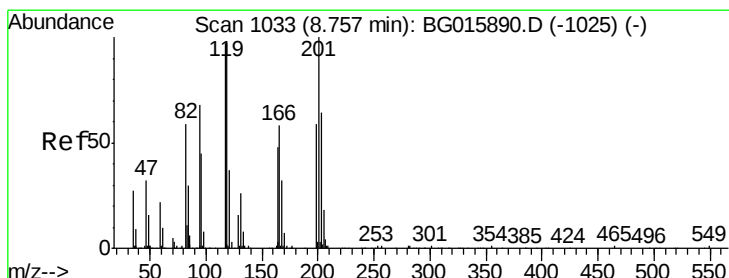
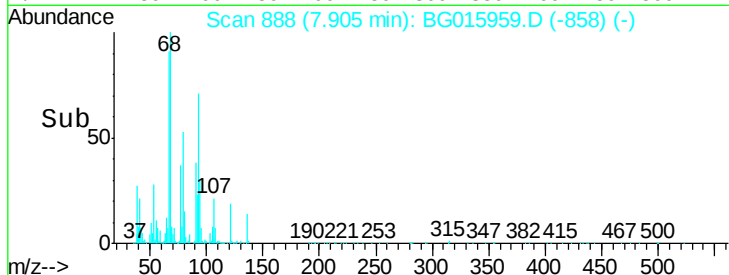
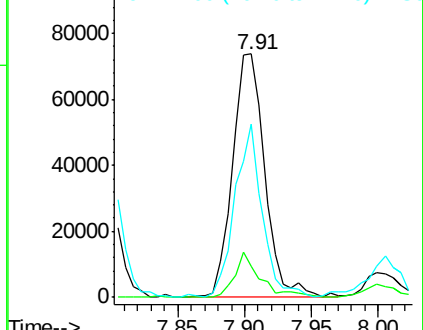
79 100

108 12.9 38.9 58.3#

77 71.2 46.1 69.1#



Abundance Ion 79.00 (78.70 to 79.70): BGC  
Ion 108.00 (107.70 to 108.70): BGC  
Ion 77.00 (76.70 to 77.70): BGC



#18

Hexachloroethane

Concen: 13.23 ng

RT: 8.79 min Scan# 1038

Delta R.T. 0.03 min

Lab File: BG015959.D

Acq: 27 Jan 2015 23:43

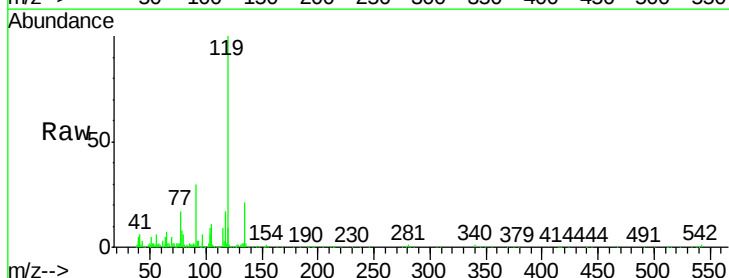
Tgt Ion: 117 Resp: 40106

Ion Ratio Lower Upper

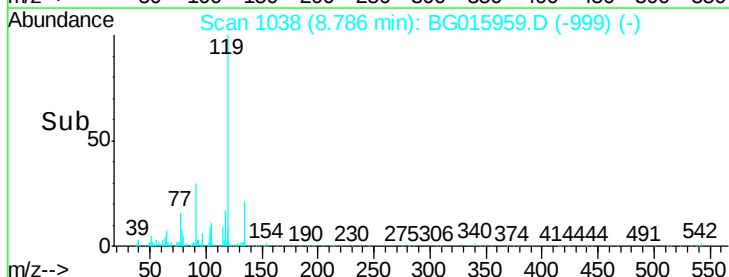
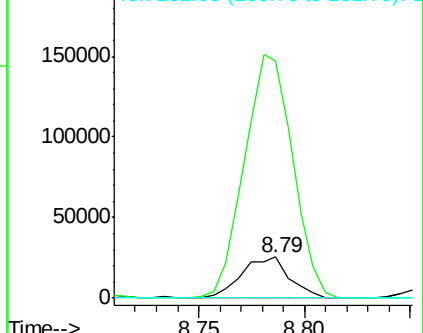
117 100

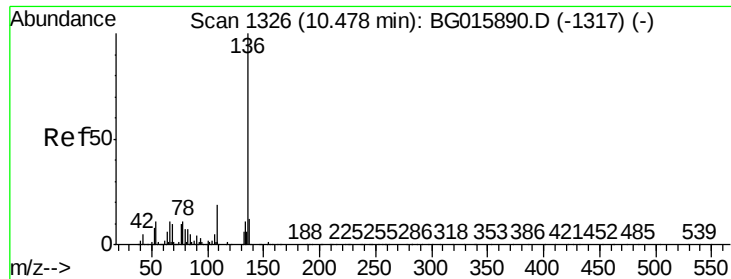
119 576.6 80.2 120.2#

201 0.0 82.6 124.0#



Abundance Ion 117.00 (116.70 to 117.70): BGC  
Ion 119.00 (118.70 to 119.70): BGC  
Ion 201.00 (200.70 to 201.70): BGC

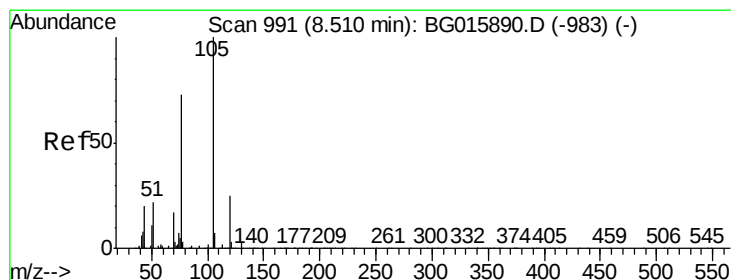
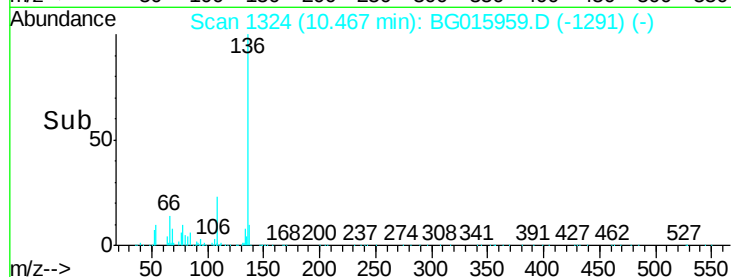
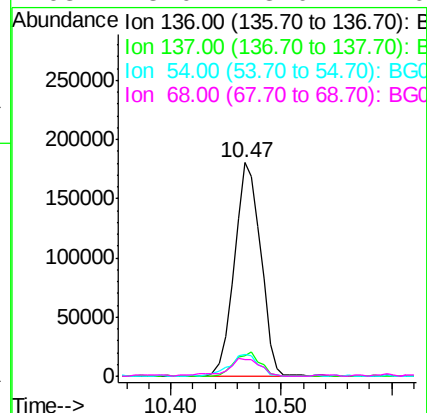
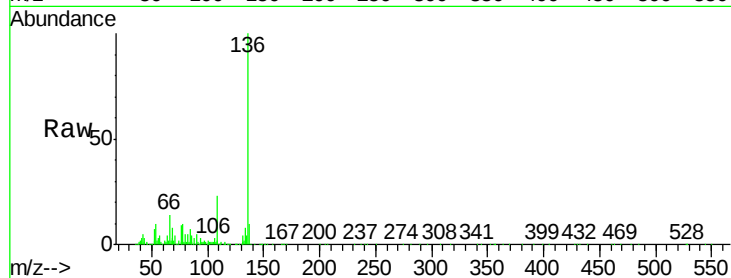




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.47 min Scan# 1324  
Delta R.T. -0.01 min  
Lab File: BG015959.D  
Acq: 27 Jan 2015 23:43

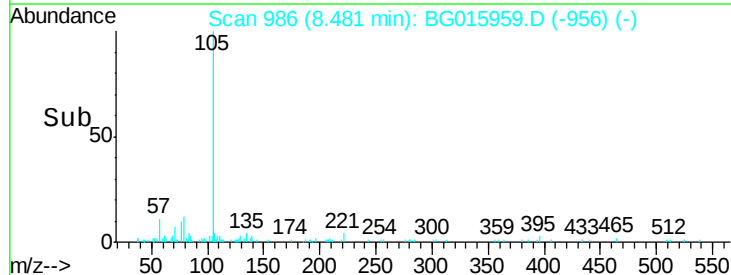
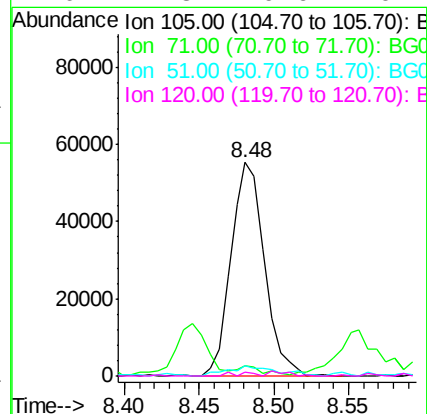
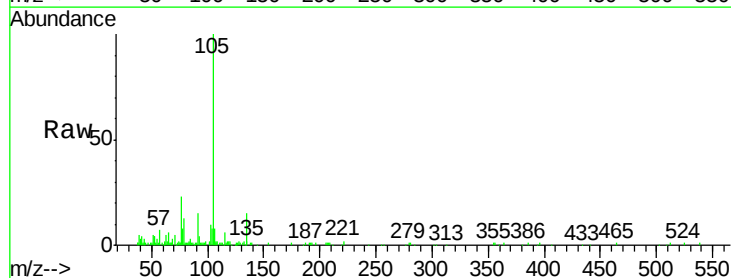
Instrument :  
BNA\_G  
ClientSampleId :  
CC-5

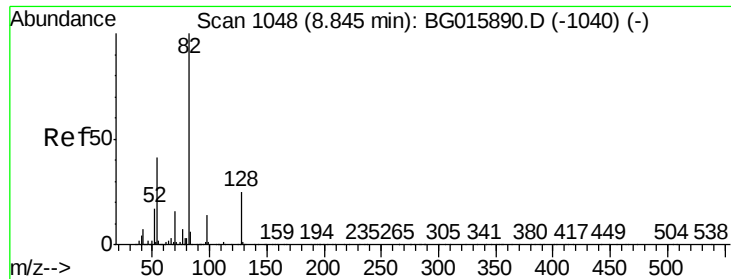
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|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 301480 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 9.5   | 9.7   | 14.5#  |
| 54        | 10.5  | 8.5   | 12.7   |
| 68        | 8.0   | 8.0   | 12.0   |



#22  
Acetophenone  
Concen: 8.61 ng  
RT: 8.48 min Scan# 986  
Delta R.T. -0.02 min  
Lab File: BG015959.D  
Acq: 27 Jan 2015 23:43

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 86956 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 71        | 4.9   | 2.4   | 3.6#  |
| 51        | 4.9   | 24.6  | 36.8# |
| 120       | 1.8   | 19.6  | 29.4# |

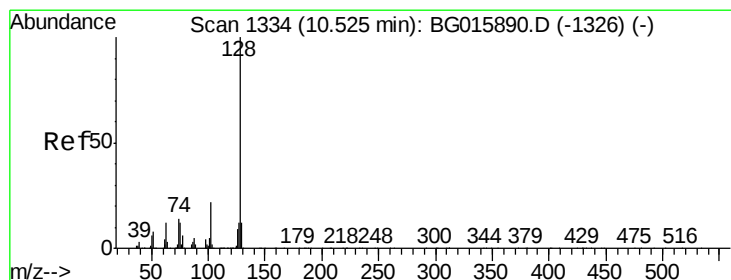
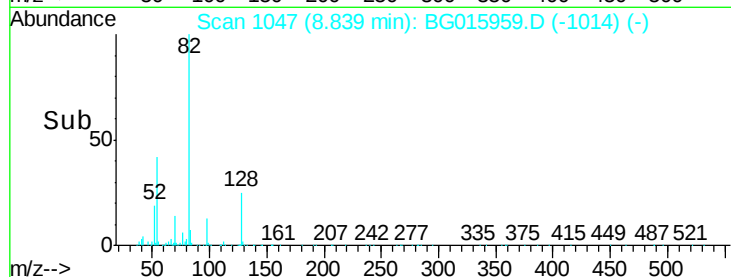
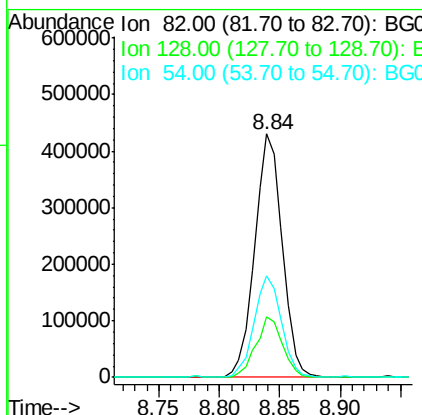
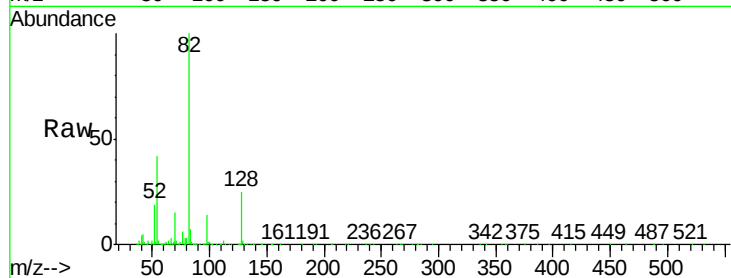




#23  
 Nitrobenzene-d5  
 Concen: 65.25 ng  
 RT: 8.84 min Scan# 1047  
 Delta R.T. -0.01 min  
 Lab File: BG015959.D  
 Acq: 27 Jan 2015 23:43

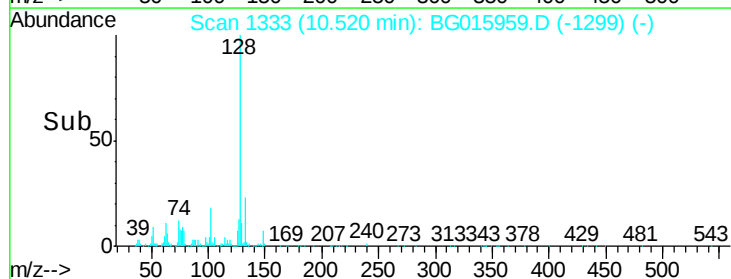
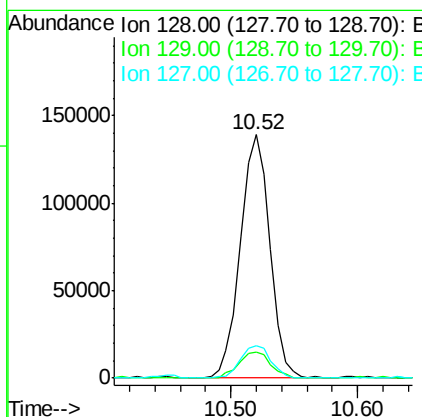
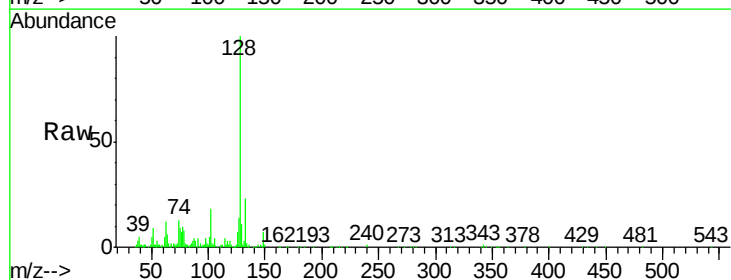
Instrument :  
 BNA\_G  
 ClientSampled :  
 CC-5

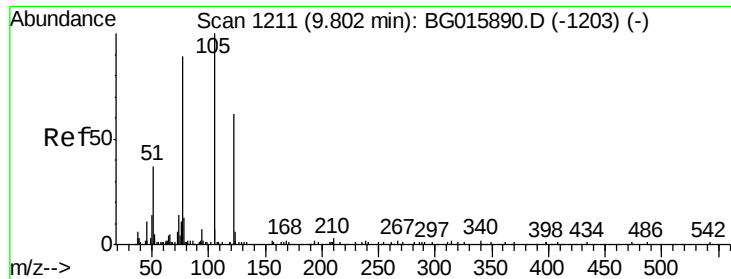
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 25.1  | 19.8  | 29.8  |
| 54      | 41.7  | 33.0  | 49.4  |



#31  
 Naphthalene  
 Concen: 14.60 ng  
 RT: 10.52 min Scan# 1333  
 Delta R.T. 0.00 min  
 Lab File: BG015959.D  
 Acq: 27 Jan 2015 23:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 10.8  | 9.7   | 14.5  |
| 127     | 13.6  | 9.8   | 14.6  |





#32

Benzoic acid

Concen: 10.50 ng

RT: 9.80 min Scan# 1210

Delta R.T. -0.02 min

Lab File: BG015959.D

Acq: 27 Jan 2015 23:43

Instrument :

BNA\_G

ClientSampleId :

CC-5

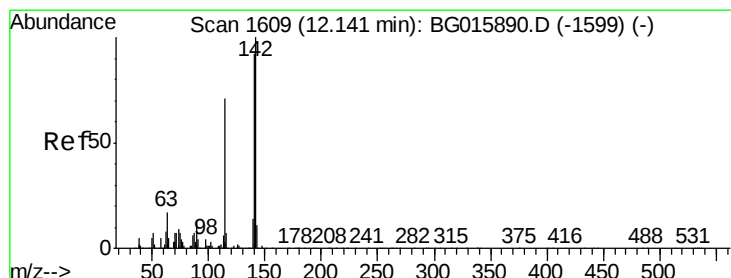
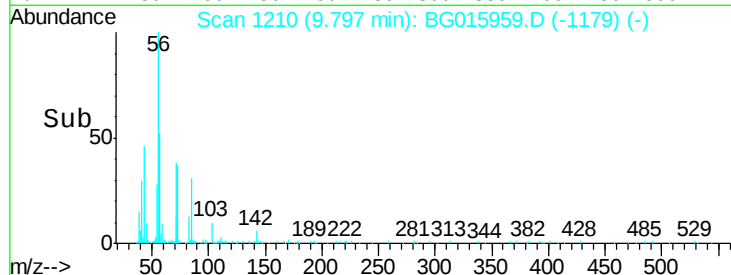
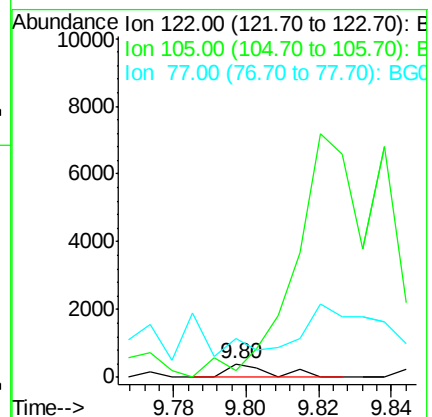
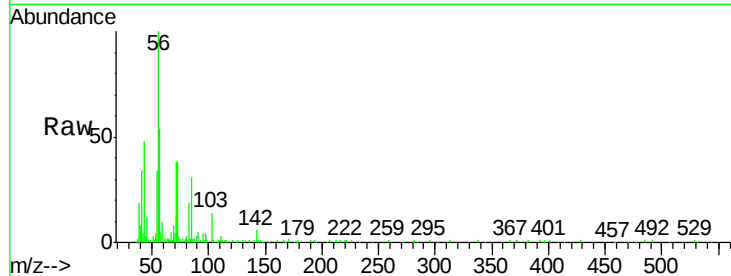
Tgt Ion:122 Resp: 317

Ion Ratio Lower Upper

122 100

105 48.4 140.2 180.2#

77 291.9 126.4 166.4#



#37

2-Methylnaphthalene

Concen: 6.63 ng

RT: 12.14 min Scan# 1608

Delta R.T. -0.01 min

Lab File: BG015959.D

Acq: 27 Jan 2015 23:43

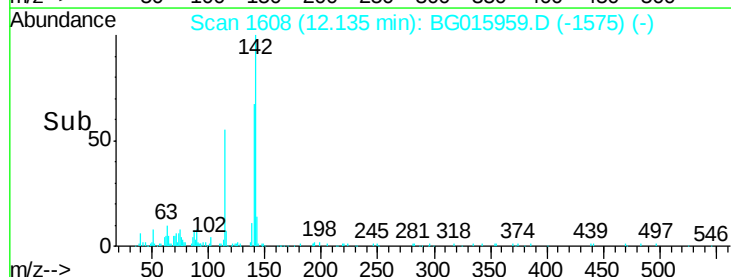
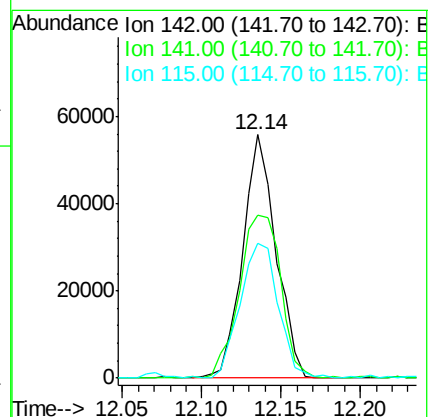
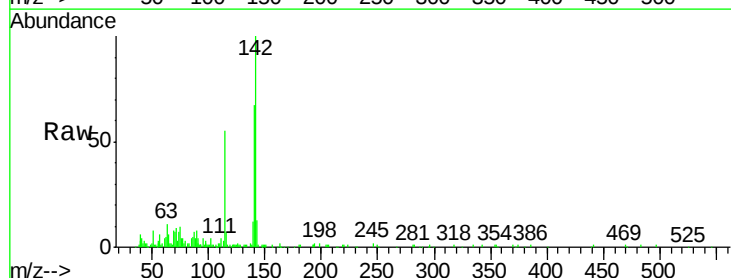
Tgt Ion:142 Resp: 81221

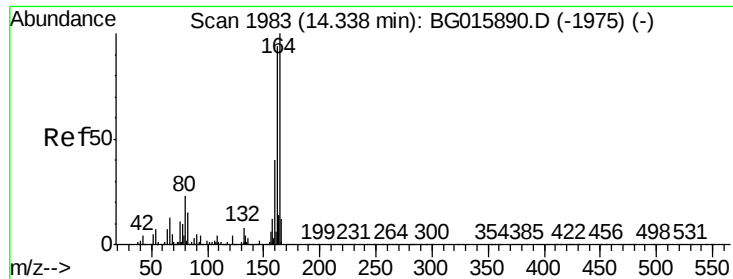
Ion Ratio Lower Upper

142 100

141 67.1 73.8 110.8#

115 55.2 56.6 84.8#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.33 min Scan# 1981

Delta R.T. -0.01 min

Lab File: BG015959.D

Acq: 27 Jan 2015 23:43

Instrument :

BNA\_G

ClientSampleId :

CC-5

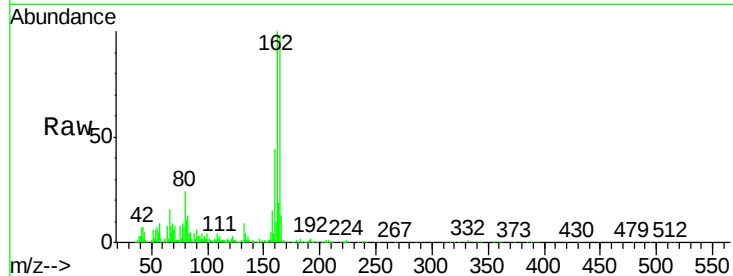
Tgt Ion:164 Resp: 246541

Ion Ratio Lower Upper

164 100

162 102.3 75.1 112.7

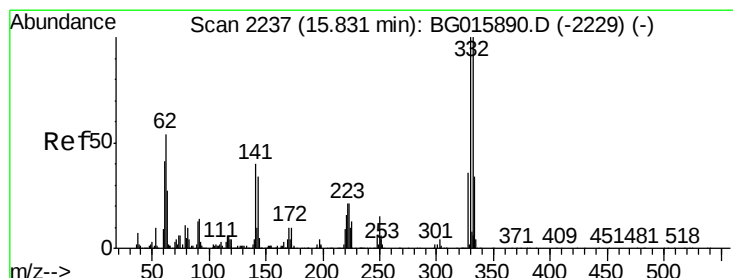
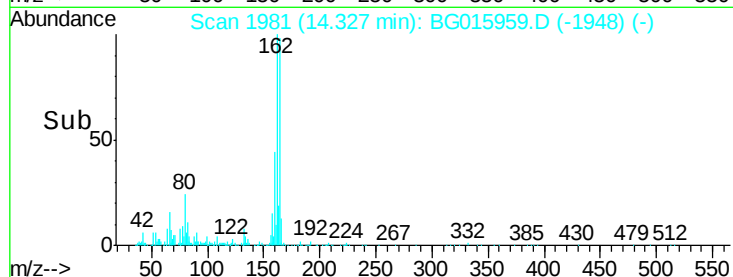
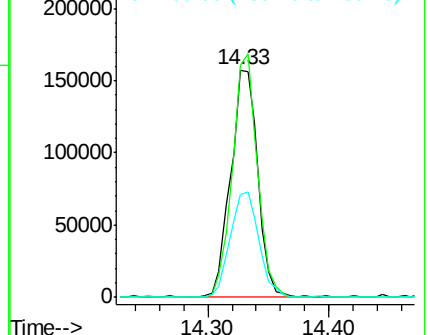
160 45.3 32.3 48.5



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



#41

2,4,6-Tribromophenol

Concen: 19.26 ng

RT: 15.83 min Scan# 2236

Delta R.T. 0.00 min

Lab File: BG015959.D

Acq: 27 Jan 2015 23:43

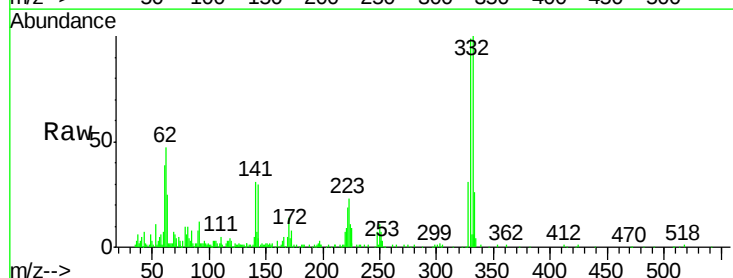
Tgt Ion:330 Resp: 86935

Ion Ratio Lower Upper

330 100

332 101.2 75.4 113.0

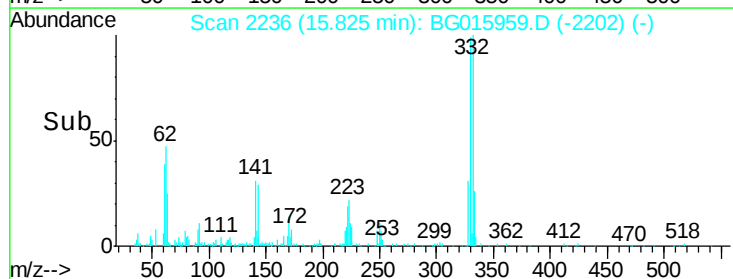
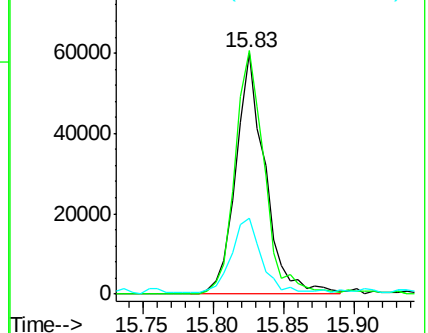
141 32.0 33.0 49.6#

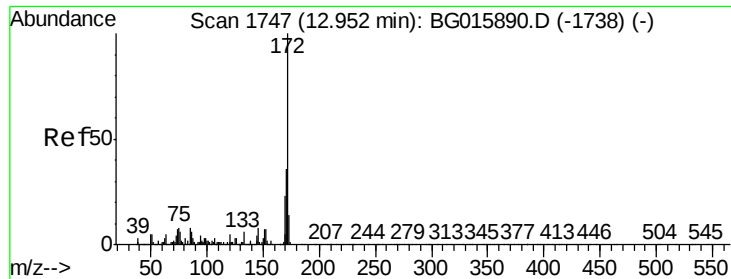


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 83.03 ng

RT: 12.95 min Scan# 1746

Delta R.T. -0.01 min

Lab File: BG015959.D

Acq: 27 Jan 2015 23:43

Instrument :

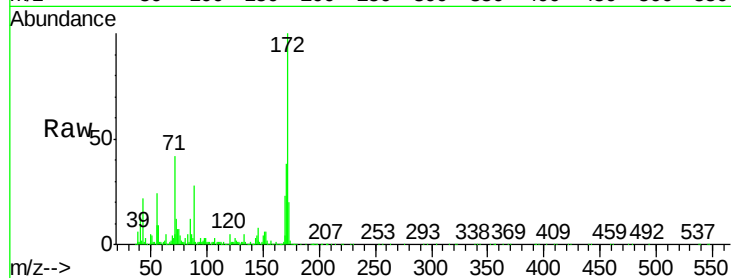
BNA\_G

ClientSampleId :

CC-5

Tgt Ion:172 Resp: 1304600

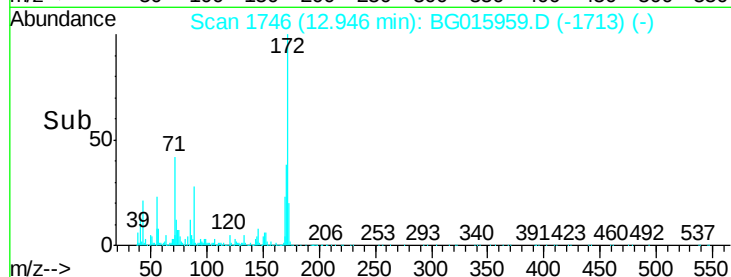
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 38.1  | 29.2  | 43.8  |
| 170 | 23.1  | 18.6  | 27.8  |



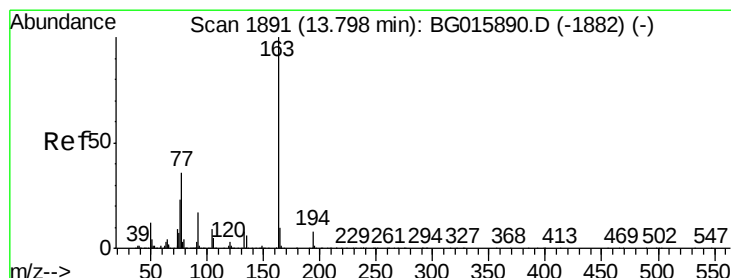
Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



Time-->



#49

Dimethylphthalate

Concen: 2.52 ng

RT: 13.79 min Scan# 1890

Delta R.T. -0.01 min

Lab File: BG015959.D

Acq: 27 Jan 2015 23:43

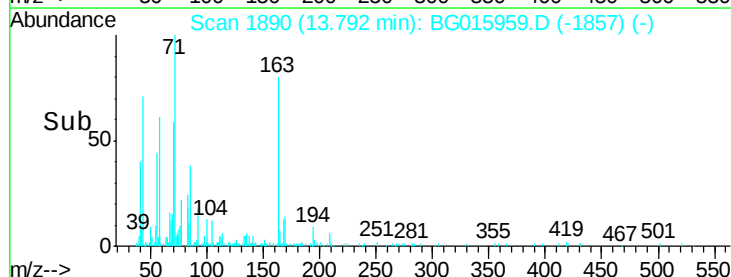
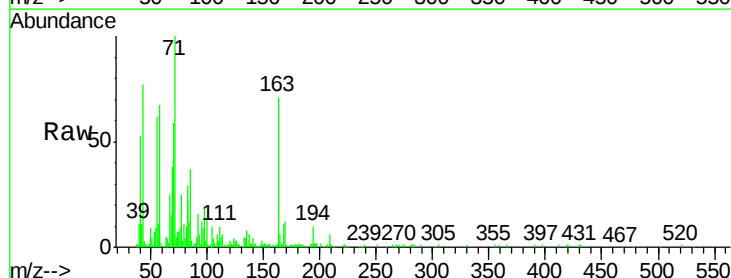
Tgt Ion:163 Resp: 44667

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 163 | 100   |       |       |
| 194 | 14.4  | 6.2   | 9.4#  |
| 164 | 8.4   | 8.0   | 12.0  |

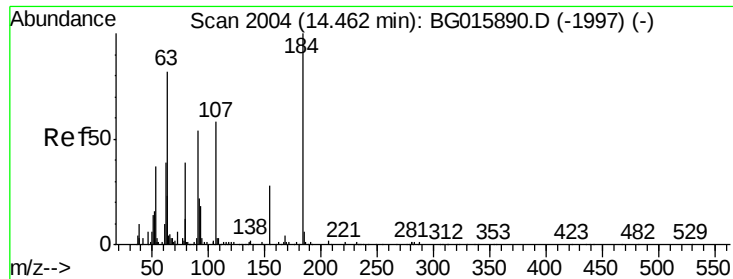
Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



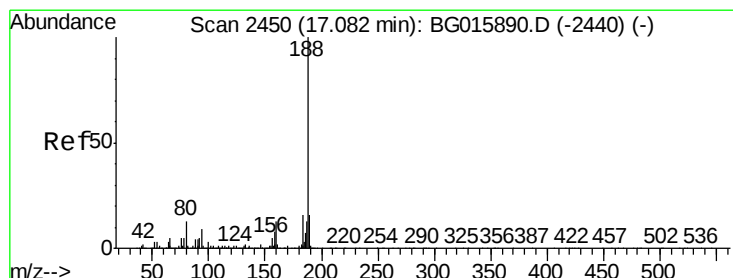
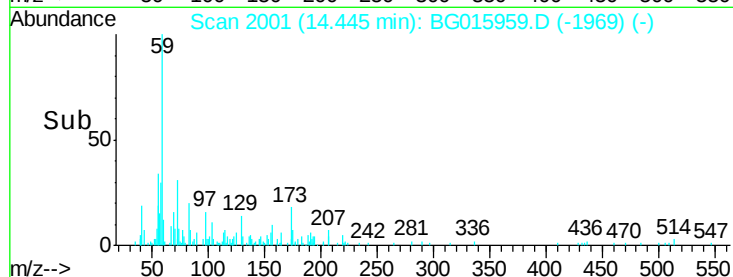
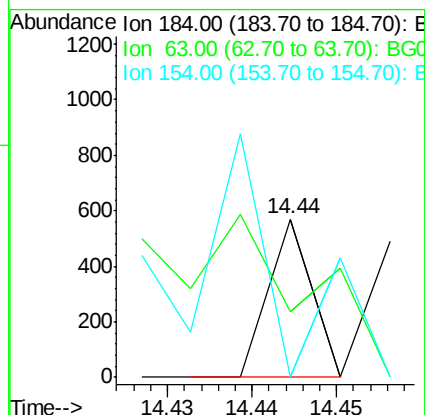
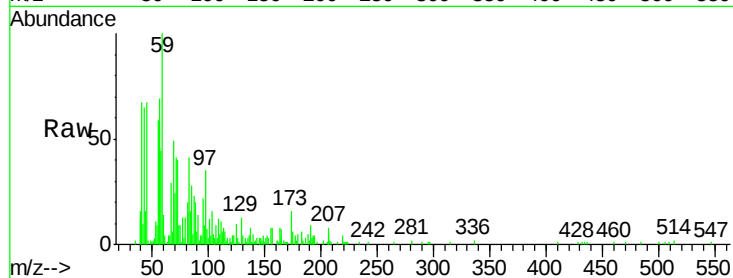
Time-->



#53  
2,4-Dinitrophenol  
Concen: 4.60 ng  
RT: 14.44 min Scan# 2001  
Delta R.T. -0.01 min  
Lab File: BG015959.D  
Acq: 27 Jan 2015 23:43

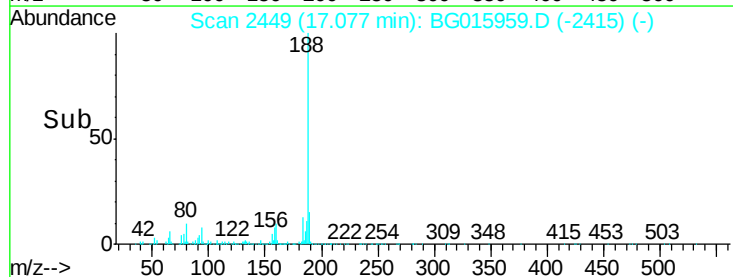
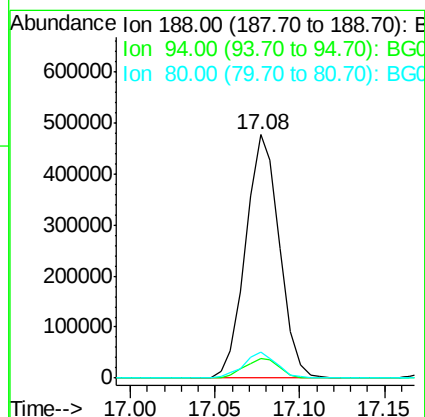
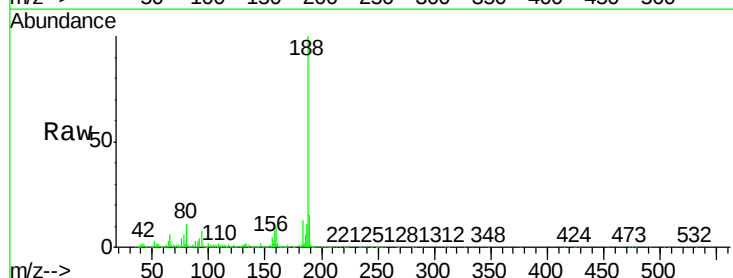
Instrument :  
BNA\_G  
ClientSampled :  
CC-5

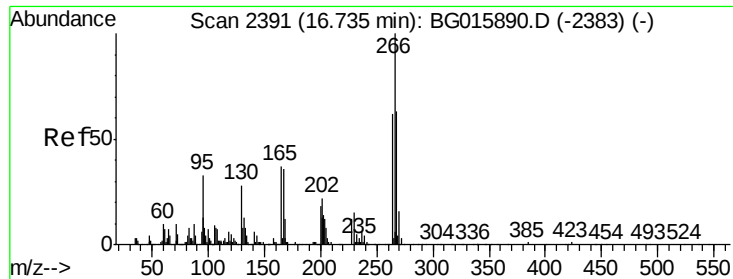
Tgt Ion:184 Resp: 201  
Ion Ratio Lower Upper  
184 100  
63 41.7 68.6 103.0#  
154 0.0 54.9 82.3#



#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.08 min Scan# 2449  
Delta R.T. 0.00 min  
Lab File: BG015959.D  
Acq: 27 Jan 2015 23:43

Tgt Ion:188 Resp: 661989  
Ion Ratio Lower Upper  
188 100  
94 8.9 7.8 11.8  
80 10.6 10.6 16.0

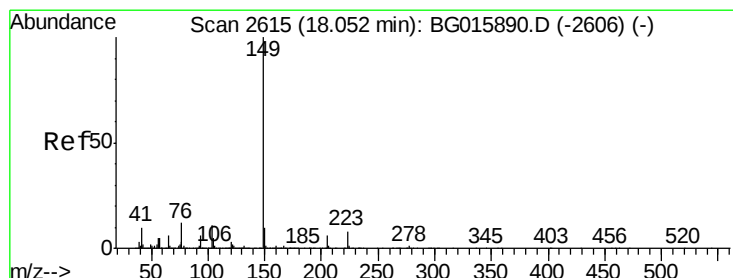
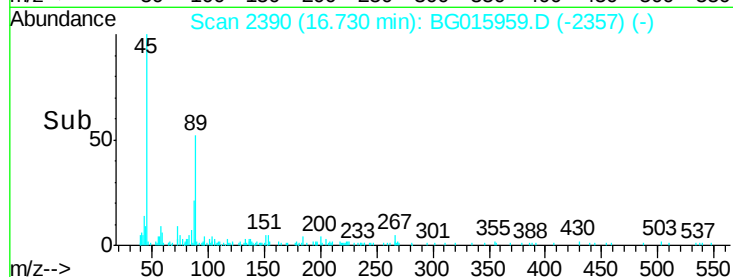
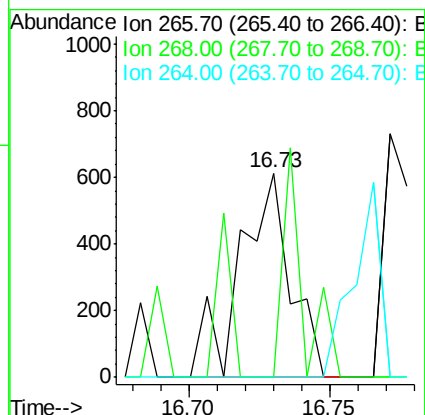
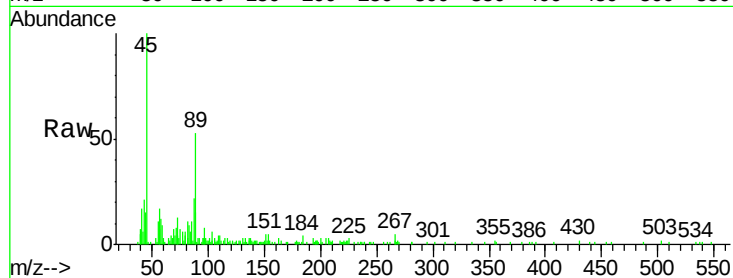




#69  
 Pentachlorophenol  
 Concen: 5.39 ng  
 RT: 16.73 min Scan# 2390  
 Delta R.T. -0.01 min  
 Lab File: BG015959.D  
 Acq: 27 Jan 2015 23:43

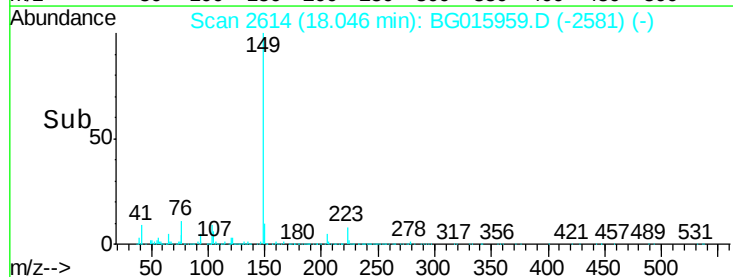
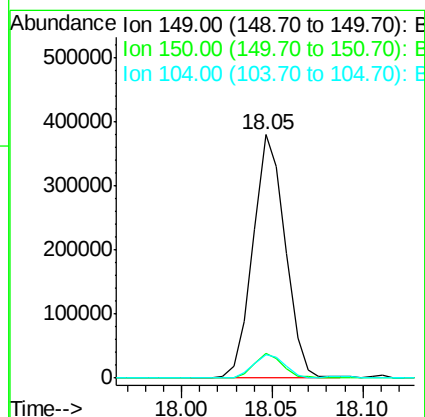
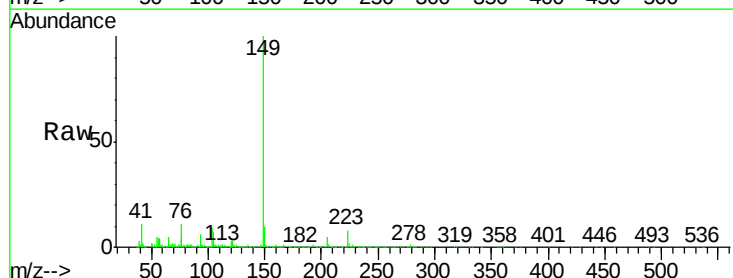
Instrument :  
 BNA\_G  
 ClientSampleId :  
 CC-5

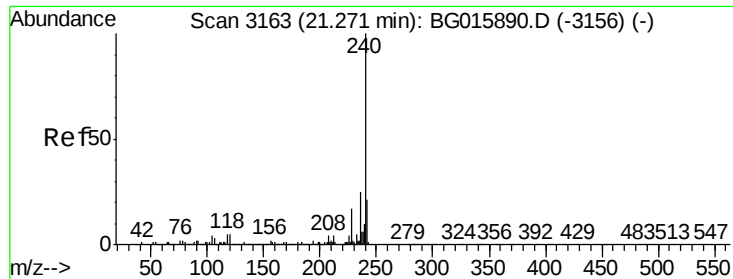
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 268     | 0.0   | 53.5  | 80.3# |
| 264     | 0.0   | 51.9  | 77.9# |



#73  
 Di-n-butylphthalate  
 Concen: 14.13 ng  
 RT: 18.05 min Scan# 2614  
 Delta R.T. -0.01 min  
 Lab File: BG015959.D  
 Acq: 27 Jan 2015 23:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 150     | 10.1  | 8.2   | 12.4  |
| 104     | 9.4   | 8.9   | 13.3  |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.27 min Scan# 3162

Delta R.T. -0.01 min

Lab File: BG015959.D

Acq: 27 Jan 2015 23:43

Instrument :

BNA\_G

ClientSampleId :

CC-5

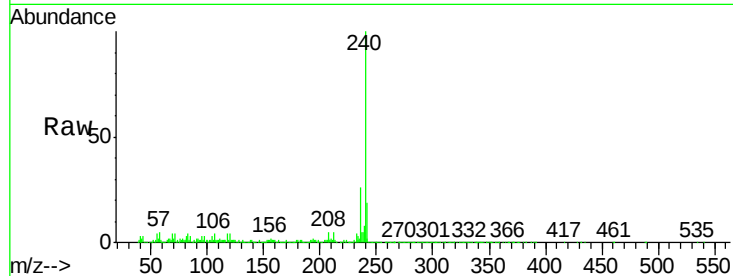
Tgt Ion:240 Resp: 925598

Ion Ratio Lower Upper

240 100

120 4.2 3.9 5.9

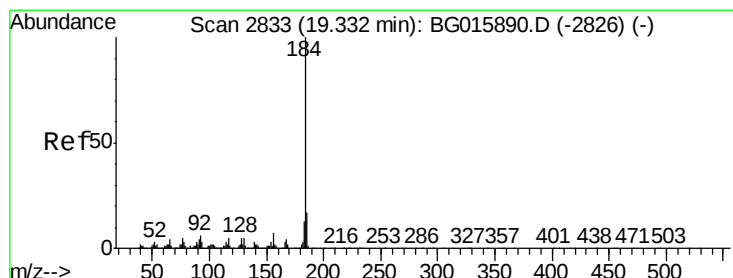
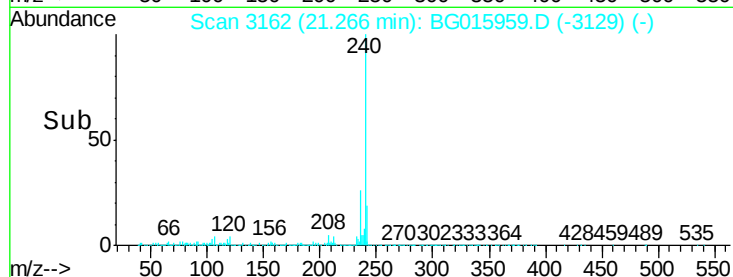
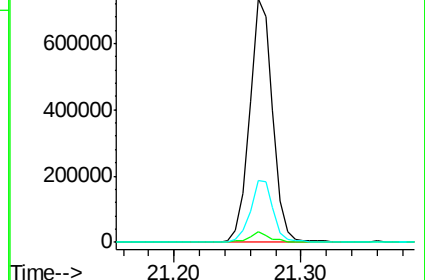
236 25.6 20.0 30.0



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: 2.16 ng

RT: 19.34 min Scan# 2834

Delta R.T. 0.01 min

Lab File: BG015959.D

Acq: 27 Jan 2015 23:43

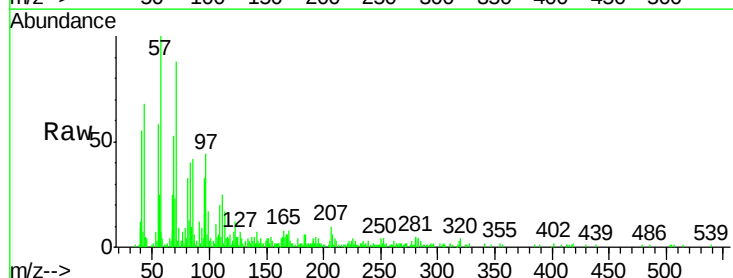
Tgt Ion:184 Resp: 4005

Ion Ratio Lower Upper

184 100

185 11.2 13.3 19.9#

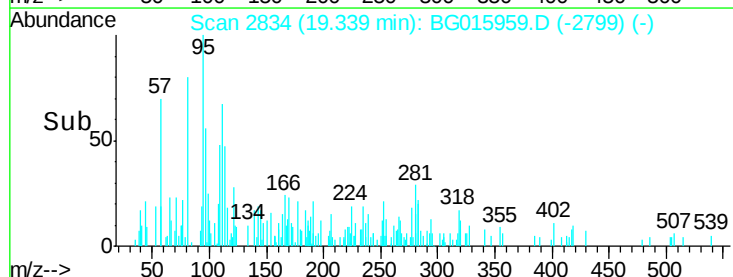
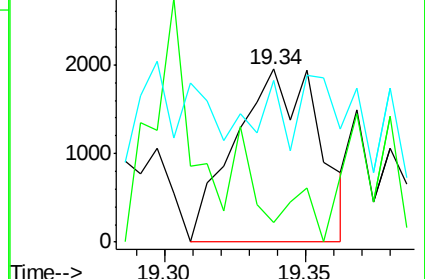
183 93.5 10.1 15.1#

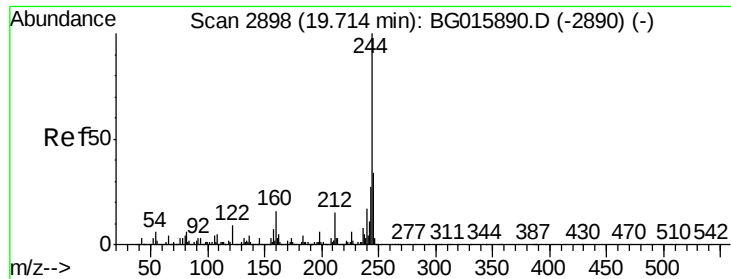


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Terphenyl-d14

Concen: 76.45 ng

RT: 19.71 min Scan# 2898

Delta R.T. 0.00 min

Lab File: BG015959.D

Acq: 27 Jan 2015 23:43

Instrument :

BNA\_G

ClientSampleId :

CC-5

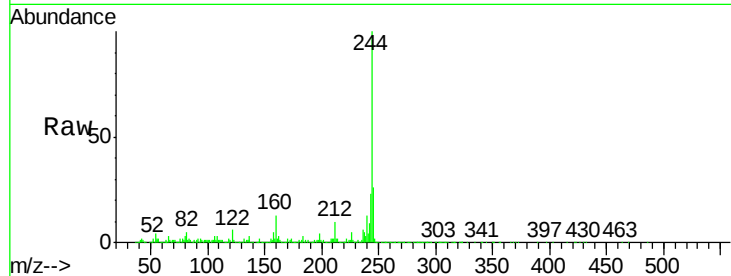
Tgt Ion:244 Resp: 2577505

Ion Ratio Lower Upper

244 100

212 10.1 11.6 17.4#

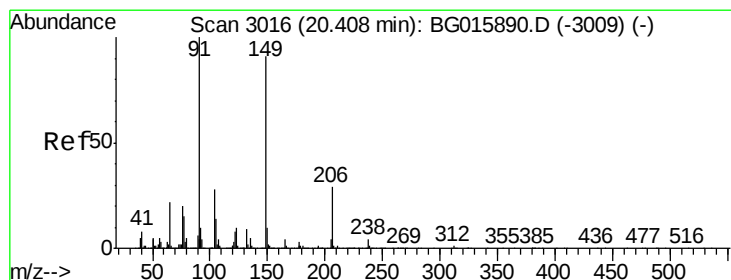
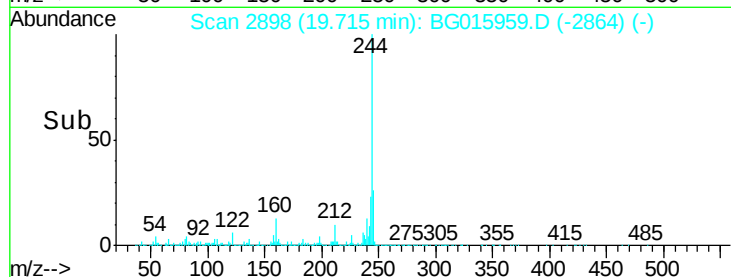
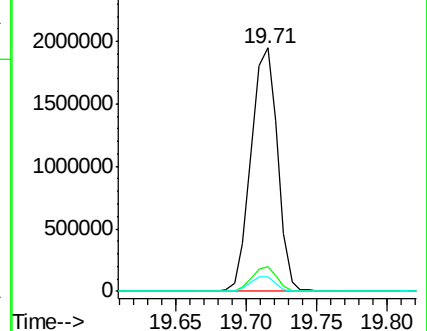
122 6.2 7.0 10.4#



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



#79

Butylbenzylphthalate

Concen: 14.52 ng

RT: 20.41 min Scan# 3016

Delta R.T. 0.00 min

Lab File: BG015959.D

Acq: 27 Jan 2015 23:43

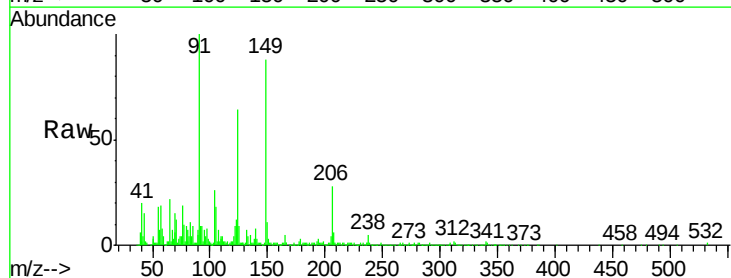
Tgt Ion:149 Resp: 234082

Ion Ratio Lower Upper

149 100

91 113.8 88.4 132.6

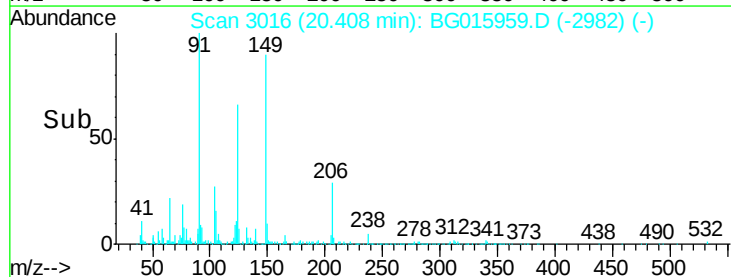
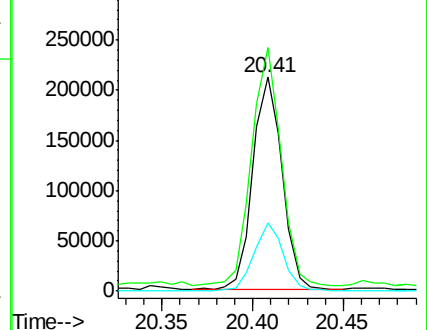
206 32.2 25.3 37.9

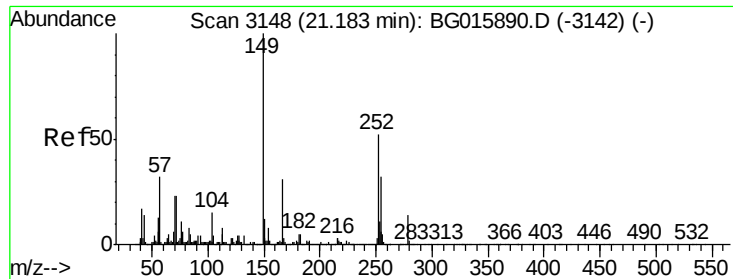


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BG

Ion 206.00 (205.70 to 206.70): E

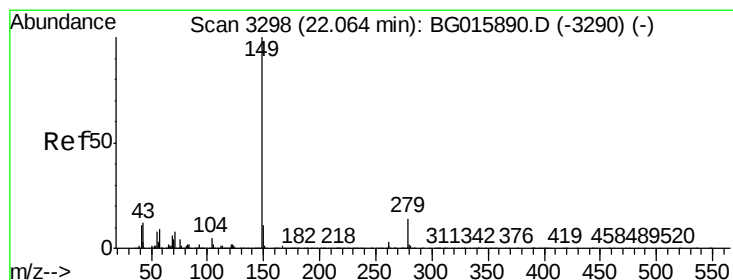
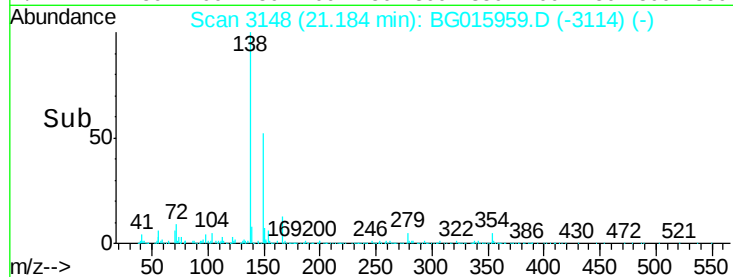
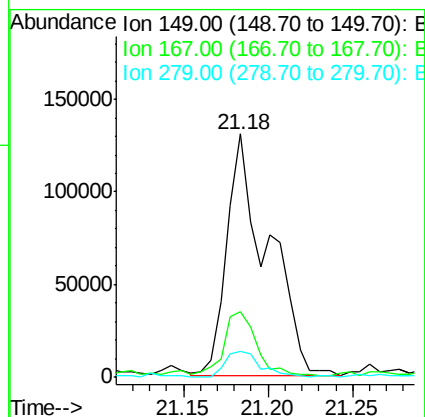
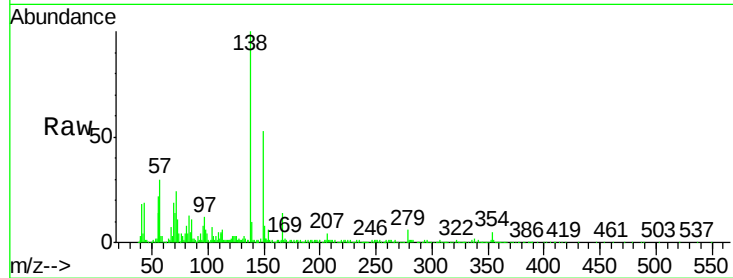




#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 10.13 ng  
 RT: 21.18 min Scan# 3148  
 Delta R.T. 0.00 min  
 Lab File: BG015959.D  
 Acq: 27 Jan 2015 23:43

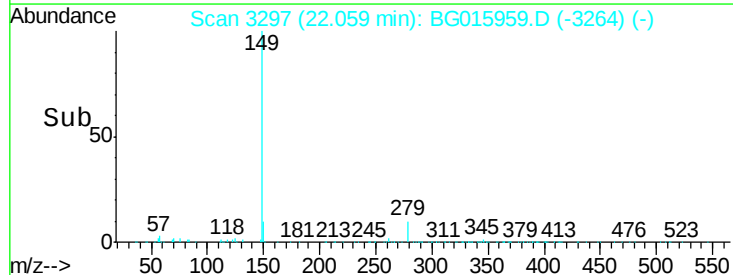
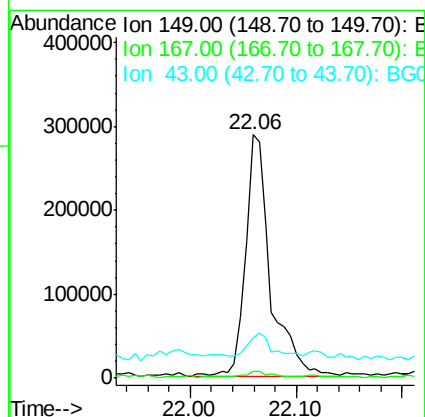
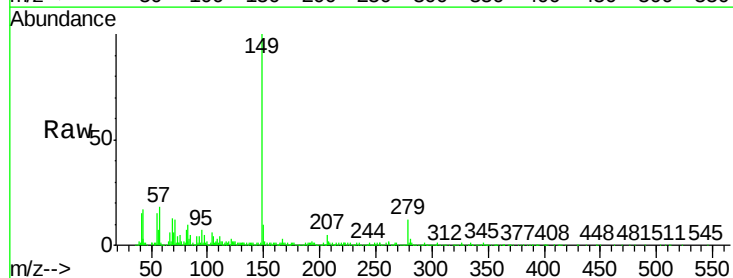
Instrument :  
 BNA\_G  
 ClientSampleId :  
 CC-5

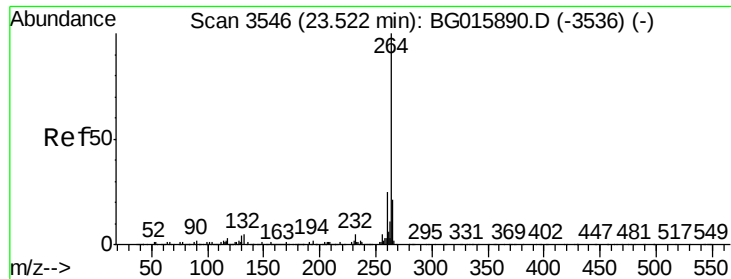
Tgt Ion:149 Resp: 219623  
 Ion Ratio Lower Upper  
 149 100  
 167 26.7 25.1 37.7  
 279 10.6 11.2 16.8#



#84  
 Di-n-octyl phthalate  
 Concen: 13.90 ng  
 RT: 22.06 min Scan# 3297  
 Delta R.T. -0.01 min  
 Lab File: BG015959.D  
 Acq: 27 Jan 2015 23:43

Tgt Ion:149 Resp: 466272  
 Ion Ratio Lower Upper  
 149 100  
 167 2.0 1.4 2.0  
 43 11.0 9.2 13.8





#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 23.52 min Scan# 3546  
Delta R.T. 0.00 min  
Lab File: BG015959.D  
Acq: 27 Jan 2015 23:43

Instrument :  
BNA\_G  
ClientSampleId :  
CC-5

Tgt Ion: 264 Resp: 889626  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 22.5  | 19.7  | 29.5  |
| 265 | 21.0  | 17.3  | 25.9  |

