

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG012615\  
 Data File : BG015957.D  
 Acq On : 27 Jan 2015 22:34  
 Operator : TP/IZ  
 Sample : G1130-02MSD  
 Misc : W  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DRILLCUTTINGSMSD

Quant Time: Jan 28 02:56:12 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 | 7.69  | 152  | 81446    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.47 | 136  | 296248   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 14.33 | 164  | 249735   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 17.08 | 188  | 749449   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 21.27 | 240  | 1078150  | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 23.52 | 264  | 1062776  | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.28  | 112 | 658415  | 120.39 | ng | 0.00 |
| 7) Phenol-d6             | 6.87  | 99  | 930108  | 105.53 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 8.84  | 82  | 811919  | 79.00  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 15.83 | 330 | 738076  | 161.44 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 12.95 | 172 | 1580272 | 99.28  | ng | 0.00 |
| 78) Terphenyl-d14        | 19.71 | 244 | 3422225 | 93.75  | ng | 0.00 |

## Target Compounds

|                                |       |     |        |       |    | Qvalue |
|--------------------------------|-------|-----|--------|-------|----|--------|
| 2) 1,4-Dioxane                 | 3.20  | 88  | 83312  | 29.58 | ng | 94     |
| 3) Pyridine                    | 3.60  | 79  | 234359 | 24.68 | ng | # 91   |
| 4) n-Nitrosodimethylamine      | 3.51  | 42  | 116345 | 31.72 | ng | 85     |
| 6) Aniline                     | 7.02  | 93  | 154232 | 12.15 | ng | 90     |
| 8) 2-Chlorophenol              | 7.26  | 128 | 201887 | 38.47 | ng | 88     |
| 9) Benzaldehyde                | 6.83  | 77  | 53334  | 6.64  | ng | 88     |
| 10) Phenol                     | 6.90  | 94  | 332951 | 33.15 | ng | 95     |
| 11) bis(2-Chloroethyl)ether    | 7.12  | 93  | 269844 | 34.76 | ng | 97     |
| 12) 1,3-Dichlorobenzene        | 7.58  | 146 | 220176 | 35.45 | ng | 99     |
| 13) 1,4-Dichlorobenzene        | 7.72  | 146 | 230332 | 35.92 | ng | 90     |
| 14) 1,2-Dichlorobenzene        | 8.03  | 146 | 214904 | 34.20 | ng | 95     |
| 15) Benzyl Alcohol             | 7.93  | 79  | 335931 | 34.84 | ng | 89     |
| 16) 2,2'-oxybis(1-Chloropropan | 8.22  | 45  | 198864 | 31.70 | ng | 86     |
| 17) 2-Methylphenol             | 8.14  | 107 | 213981 | 34.38 | ng | 95     |
| 18) Hexachloroethane           | 8.76  | 117 | 110210 | 33.43 | ng | 87     |
| 19) n-Nitroso-di-n-propylamine | 8.49  | 70  | 279317 | 31.77 | ng | 97     |
| 20) 3+4-Methylphenols          | 8.46  | 107 | 312904 | 38.35 | ng | 89     |
| 22) Acetophenone               | 8.51  | 105 | 410032 | 41.30 | ng | # 92   |
| 24) Nitrobenzene               | 8.89  | 77  | 434356 | 40.18 | ng | 98     |
| 25) Isophorone                 | 9.40  | 82  | 713101 | 39.25 | ng | # 95   |
| 26) 2-Nitrophenol              | 9.59  | 139 | 115973 | 43.32 | ng | 88     |
| 27) 2,4-Dimethylphenol         | 9.66  | 122 | 216740 | 42.31 | ng | 93     |
| 28) bis(2-Chloroethoxy)methane | 9.89  | 93  | 349284 | 39.70 | ng | 98     |
| 29) 2,4-Dichlorophenol         | 10.13 | 162 | 259201 | 48.46 | ng | 95     |
| 30) 1,2,4-Trichlorobenzene     | 10.34 | 180 | 272683 | 42.04 | ng | # 92   |
| 31) Naphthalene                | 10.52 | 128 | 631875 | 41.67 | ng | 97     |
| 32) Benzoic acid               | 9.82  | 122 | 68525  | 43.96 | ng | 96     |
| 33) 4-Chloroaniline            | 10.64 | 127 | 19659  | 2.78  | ng | # 70   |
| 34) Hexachlorobutadiene        | 10.80 | 225 | 268456 | 42.31 | ng | 99     |
| 35) Caprolactam                | 11.41 | 113 | 74912  | 28.50 | ng | # 78   |
| 36) 4-Chloro-3-methylphenol    | 11.78 | 107 | 342346 | 43.51 | ng | 96     |
| 37) 2-Methylnaphthalene        | 12.13 | 142 | 503117 | 41.78 | ng | 99     |
| 39) 1,2,4,5-Tetrachlorobenzene | 12.51 | 216 | 446664 | 46.90 | ng | 98     |
| 40) Hexachlorocyclopentadiene  | 12.49 | 237 | 577168 | 80.43 | ng | 90     |

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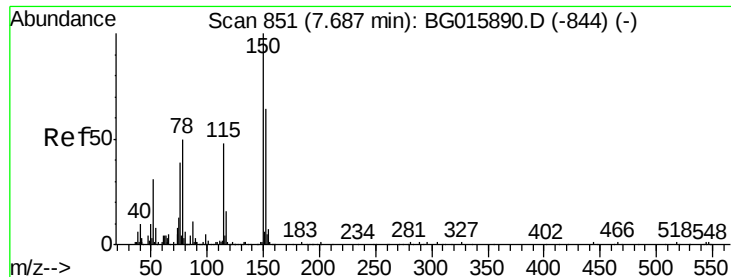
Instrument :  
 BNA\_G  
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Quant Time: Jan 28 02:56:12 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG012015.M  
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 QLast Update : Wed Jan 28 01:36:36 2015  
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| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 12.76 | 196  | 295077   | 52.89 | ng    | 94       |
| 43) 2,4,5-Trichlorophenol      | 12.84 | 196  | 316812   | 50.24 | ng    | 92       |
| 45) 1,1'-Biphenyl              | 13.16 | 154  | 701736   | 44.52 | ng    | 97       |
| 46) 2-Chloronaphthalene        | 13.20 | 162  | 626516   | 47.07 | ng    | # 90     |
| 47) 2-Nitroaniline             | 13.42 | 65   | 280006   | 41.23 | ng    | 92       |
| 48) Acenaphthylene             | 14.05 | 152  | 981132   | 48.54 | ng    | 98       |
| 49) Dimethylphthalate          | 13.80 | 163  | 853783   | 47.51 | ng    | 98       |
| 50) 2,6-Dinitrotoluene         | 13.91 | 165  | 196911   | 48.54 | ng    | 97       |
| 51) Acenaphthene               | 14.40 | 154  | 575030   | 45.28 | ng    | 94       |
| 52) 3-Nitroaniline             | 14.25 | 138  | 80103    | 20.99 | ng    | # 85     |
| 53) 2,4-Dinitrophenol          | 14.46 | 184  | 189782   | 66.26 | ng    | # 87     |
| 54) Dibenzofuran               | 14.73 | 168  | 987180   | 47.11 | ng    | 95       |
| 55) 4-Nitrophenol              | 14.57 | 139  | 222690   | 84.80 | ng    | # 85     |
| 56) 2,4-Dinitrotoluene         | 14.71 | 165  | 297552   | 50.13 | ng    | # 78     |
| 57) Fluorene                   | 15.38 | 166  | 910509   | 48.17 | ng    | 94       |
| 58) 2,3,4,6-Tetrachlorophenol  | 14.97 | 232  | 354117   | 50.71 | ng    | # 95     |
| 59) Diethylphthalate           | 15.16 | 149  | 896819   | 48.88 | ng    | 97       |
| 60) 4-Chlorophenyl-phenylether | 15.38 | 204  | 607999   | 48.37 | ng    | 95       |
| 61) 4-Nitroaniline             | 15.42 | 138  | 177522   | 43.85 | ng    | # 62     |
| 62) Azobenzene                 | 15.67 | 77   | 1218420  | 41.01 | ng    | 96       |
| 64) 4,6-Dinitro-2-methylphenol | 15.47 | 198  | 188677   | 34.89 | ng    | 88       |
| 65) n-Nitrosodiphenylamine     | 15.60 | 169  | 855859   | 40.03 | ng    | 94       |
| 66) 4-Bromophenyl-phenylether  | 16.27 | 248  | 478286   | 43.70 | ng    | 93       |
| 67) Hexachlorobenzene          | 16.39 | 284  | 518205   | 43.80 | ng    | # 88     |
| 68) Atrazine                   | 16.55 | 200  | 410906   | 39.93 | ng    | 99       |
| 69) Pentachlorophenol          | 16.74 | 266  | 442924   | 70.39 | ng    | 97       |
| 70) Phenanthrene               | 17.12 | 178  | 1532085  | 40.75 | ng    | 99       |
| 71) Anthracene                 | 17.21 | 178  | 1578983  | 42.80 | ng    | 99       |
| 72) Carbazole                  | 17.49 | 167  | 1333938  | 41.01 | ng    | 97       |
| 73) Di-n-butylphthalate        | 18.05 | 149  | 1573355  | 42.03 | ng    | 97       |
| 74) Fluoranthene               | 19.14 | 202  | 2120377  | 42.23 | ng    | 99       |
| 76) Benzidine                  | 19.33 | 184  | 229028   | 10.25 | ng    | # 96     |
| 77) Pyrene                     | 19.51 | 202  | 2137241  | 41.71 | ng    | 98       |
| 79) Butylbenzylphthalate       | 20.41 | 149  | 773918   | 41.20 | ng    | 94       |
| 80) Benzo(a)anthracene         | 21.25 | 228  | 2408300  | 43.82 | ng    | 98       |
| 81) 3,3'-Dichlorobenzidine     | 21.19 | 252  | 505267   | 20.97 | ng    | 99       |
| 82) Chrysene                   | 21.31 | 228  | 2253028  | 42.96 | ng    | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 21.18 | 149  | 1048308  | 41.50 | ng    | 95       |
| 84) Di-n-octyl phthalate       | 22.06 | 149  | 1687884  | 43.19 | ng    | # 96     |
| 85) Indeno(1,2,3-cd)pyrene     | 25.82 | 276  | 2706155  | 42.81 | ng    | 99       |
| 87) Benzo(b)fluoranthene       | 22.85 | 252  | 2486487  | 40.99 | ng    | 97       |
| 88) Benzo(k)fluoranthene       | 22.89 | 252  | 2504626  | 42.65 | ng    | 96       |
| 89) Benzo(a)pyrene             | 23.43 | 252  | 2446189  | 41.91 | ng    | # 99     |
| 90) Dibenzo(a,h)anthracene     | 25.82 | 278  | 2343289  | 42.29 | ng    | 99       |
| 91) Benzo(g,h,i)perylene       | 26.52 | 276  | 2348791  | 43.45 | ng    | 96       |

(#) = 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: BG015957.D

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Instrument :

BNA\_G

ClientSampleId :

DRILLCUTTINGSMSD

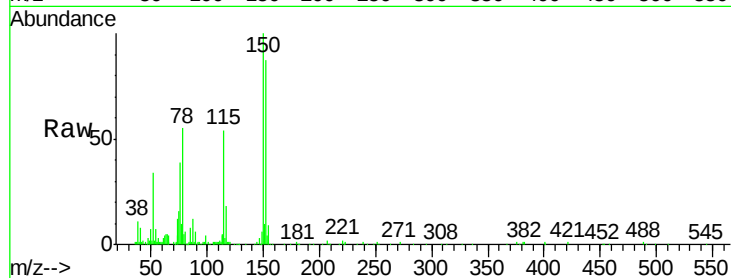
Tgt Ion:152 Resp: 81446

Ion Ratio Lower Upper

152 100

150 115.3 124.5 186.7#

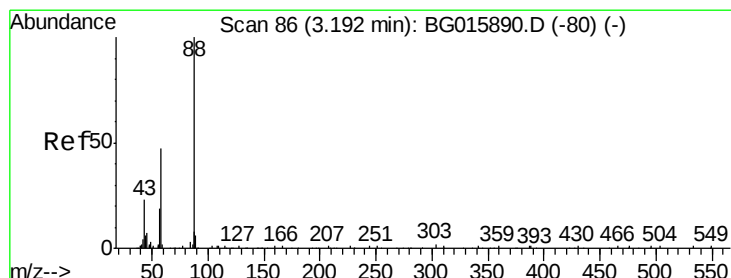
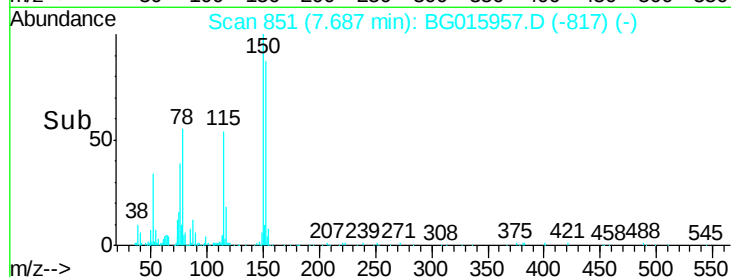
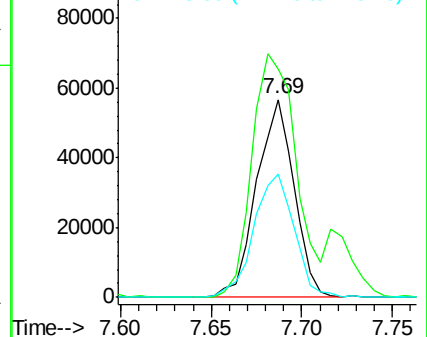
115 62.6 60.4 90.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 29.58 ng

RT: 3.20 min Scan# 88

Delta R.T. 0.01 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

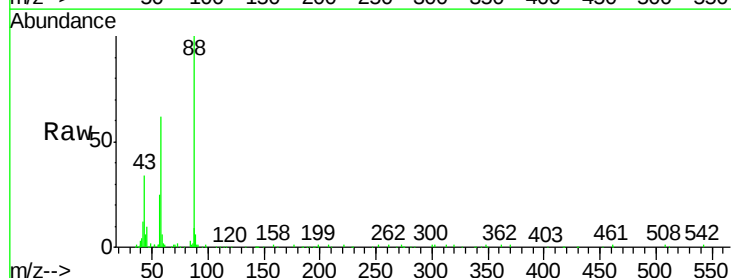
Tgt Ion: 88 Resp: 83312

Ion Ratio Lower Upper

88 100

58 54.2 40.4 60.6

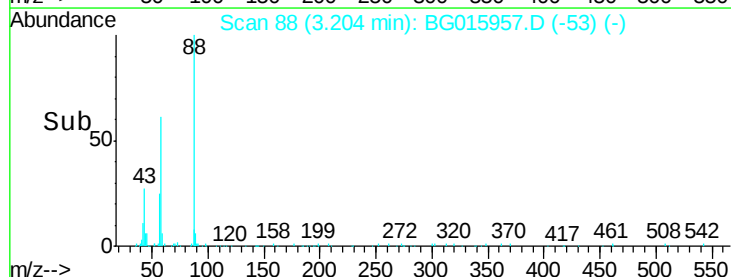
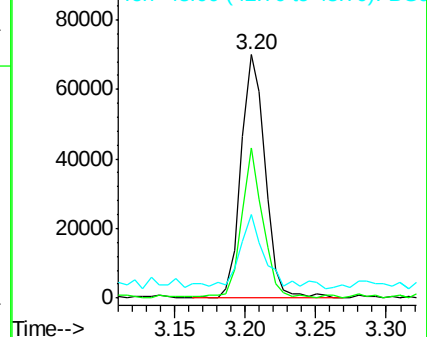
43 28.0 19.2 28.8

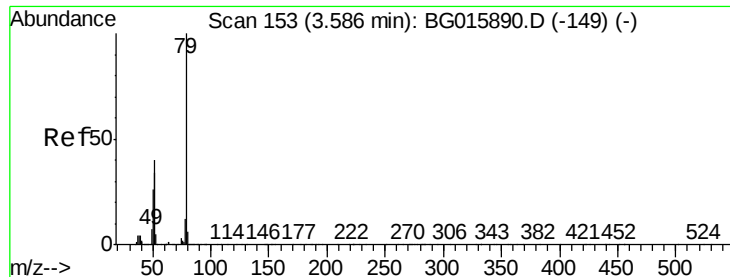


Abundance Ion 88.00 (87.70 to 88.70): BGC

Ion 58.00 (57.70 to 58.70): BGC

Ion 43.00 (42.70 to 43.70): BGC





#3

Pyridine

Concen: 24.68 ng

RT: 3.60 min Scan# 155

Delta R.T. 0.01 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

Instrument :

BNA\_G

ClientSampleId :

DRILLCUTTINGSMSD

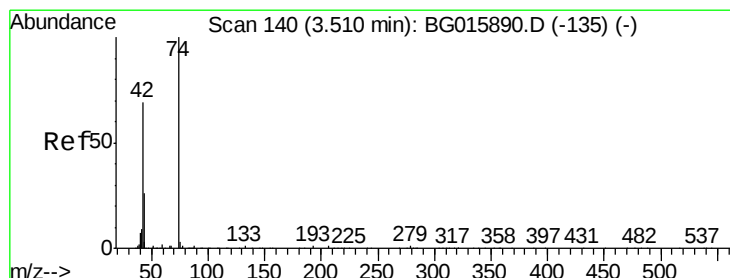
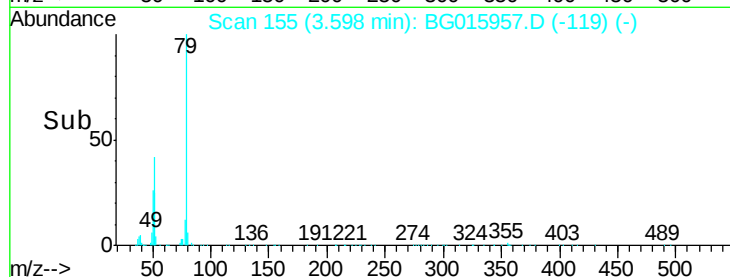
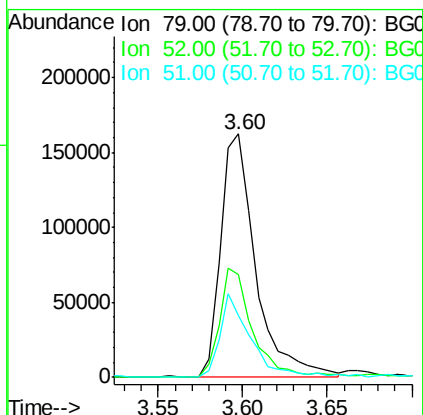
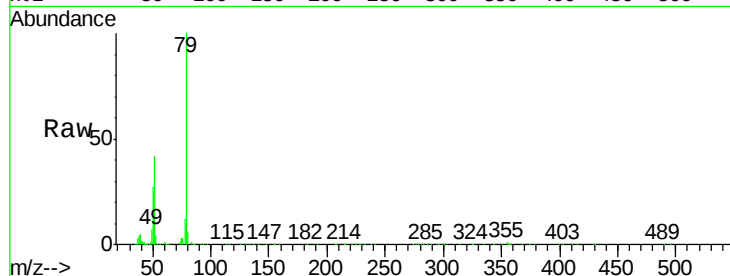
Tgt Ion: 79 Resp: 234359

Ion Ratio Lower Upper

79 100

52 42.2 31.8 47.6

51 25.3 27.3 40.9#



#4

n-Nitrosodimethylamine

Concen: 31.72 ng

RT: 3.51 min Scan# 140

Delta R.T. -0.00 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

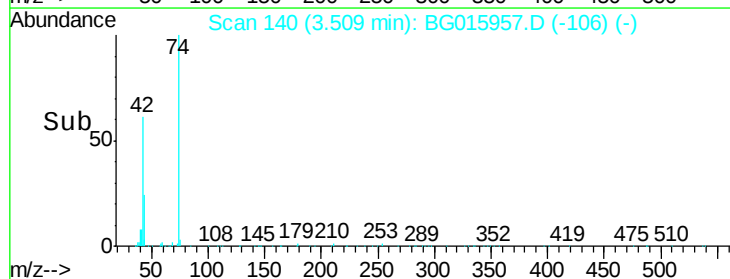
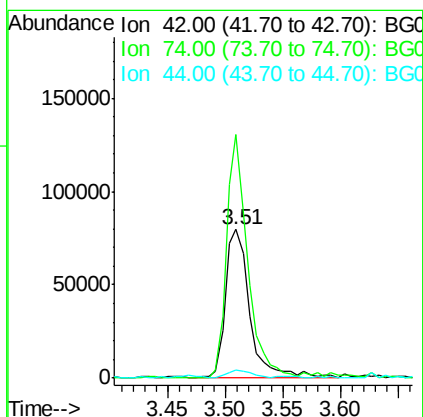
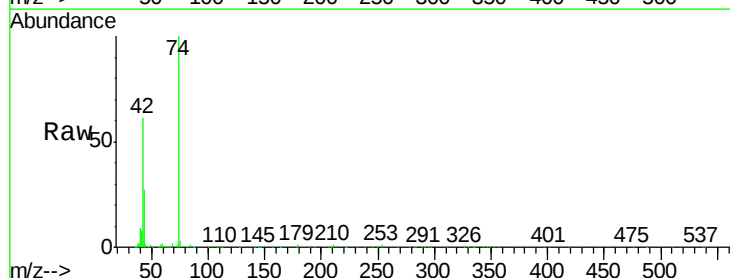
Tgt Ion: 42 Resp: 116345

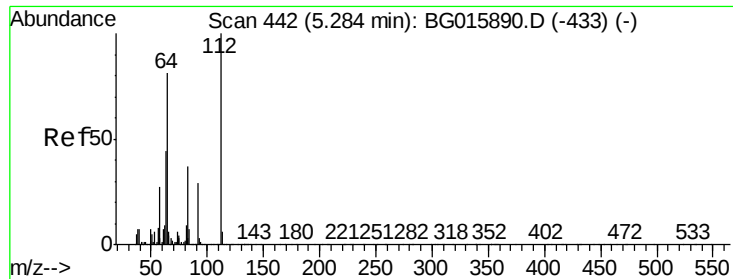
Ion Ratio Lower Upper

42 100

74 163.8 116.0 174.0

44 5.3 3.8 5.8





#5

2-Fluorophenol

Concen: 120.39 ng

RT: 5.28 min Scan# 442

Delta R.T. 0.01 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

Instrument :

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ClientSampleId :

DRILLCUTTINGSMSD

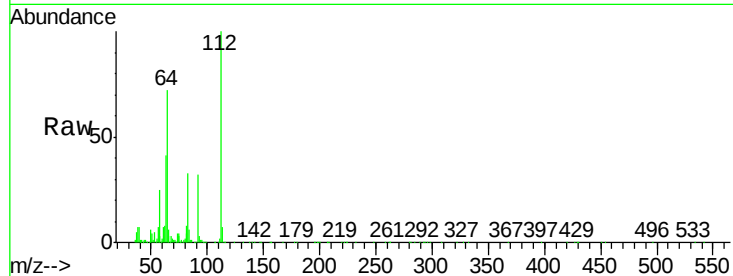
Tgt Ion: 112 Resp: 658415

Ion Ratio Lower Upper

112 100

64 72.1 64.4 96.6

63 41.2 35.1 52.7



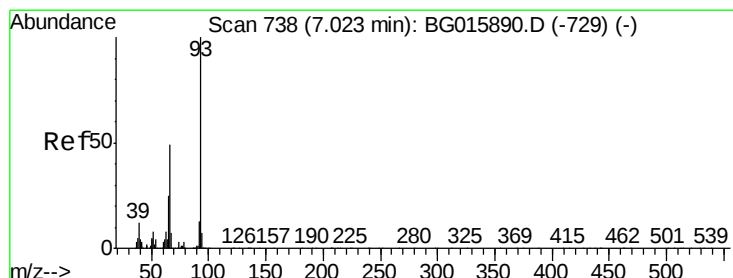
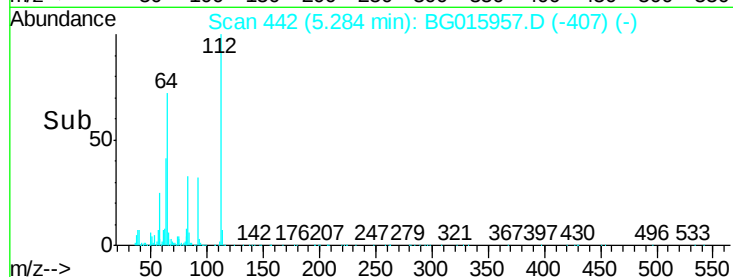
Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC

5.28

Time-->



#6

Aniline

Concen: 12.15 ng

RT: 7.02 min Scan# 738

Delta R.T. -0.00 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

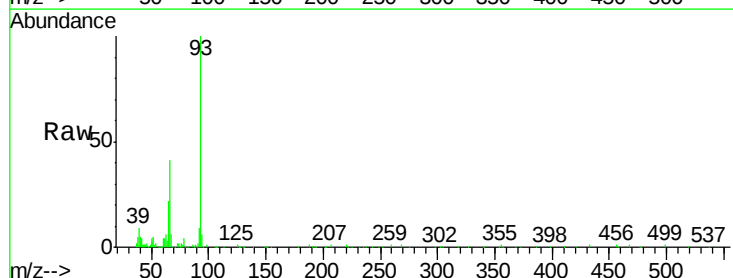
Tgt Ion: 93 Resp: 154232

Ion Ratio Lower Upper

93 100

66 40.5 39.0 58.6

65 21.6 19.8 29.6



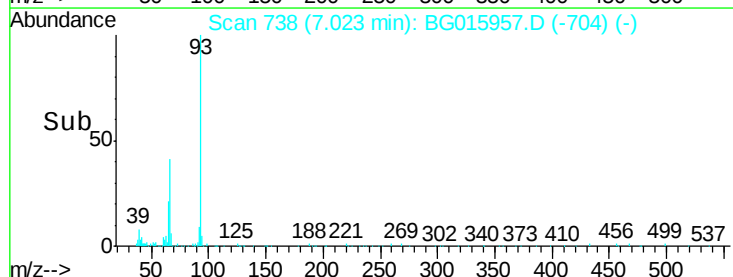
Abundance Ion 93.00 (92.70 to 93.70): BGC

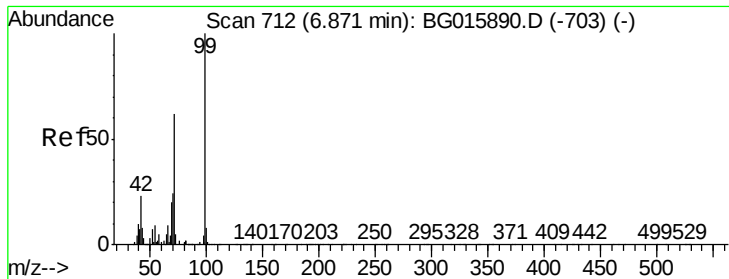
Ion 66.00 (65.70 to 66.70): BGC

Ion 65.00 (64.70 to 65.70): BGC

7.02

Time-->





#7

Phenol-d6

Concen: 105.53 ng

RT: 6.87 min Scan# 712

Delta R.T. -0.00 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

Instrument :

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ClientSampleId :

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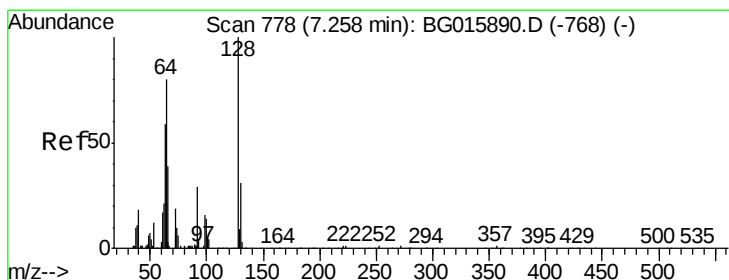
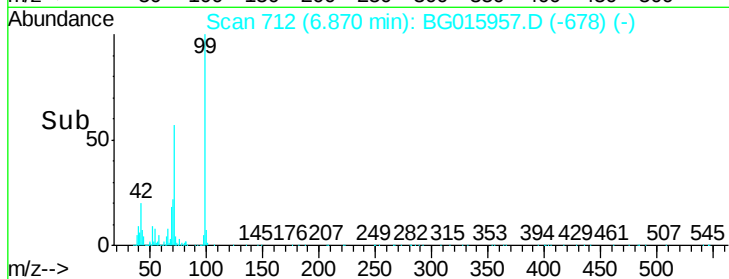
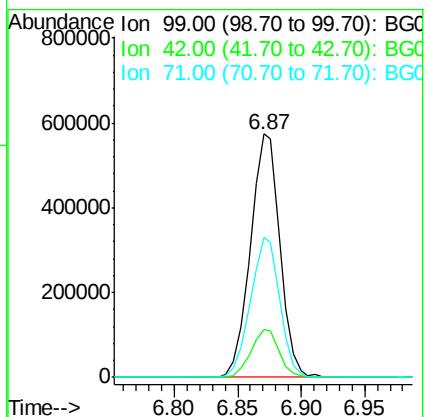
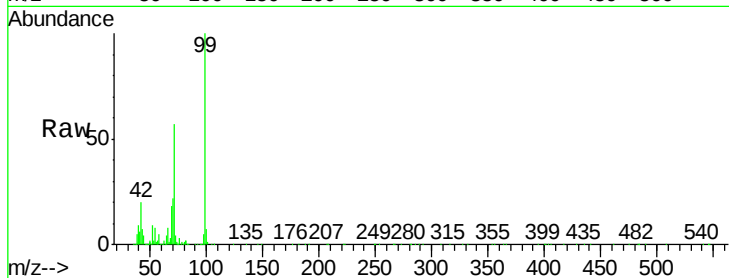
Tgt Ion: 99 Resp: 930108

Ion Ratio Lower Upper

99 100

42 19.6 18.1 27.1

71 57.4 49.8 74.8



#8

2-Chlorophenol

Concen: 38.47 ng

RT: 7.26 min Scan# 778

Delta R.T. 0.01 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

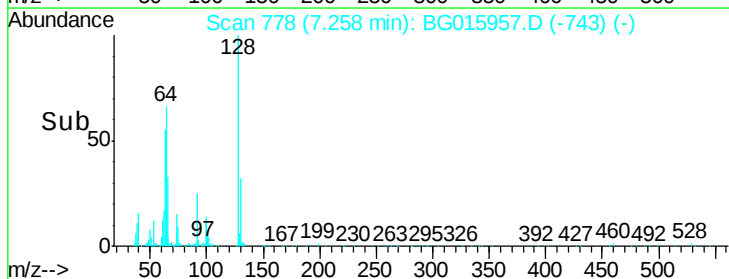
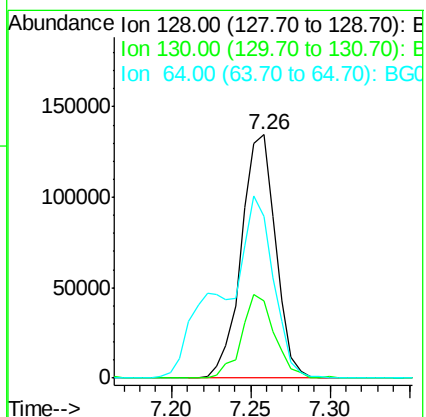
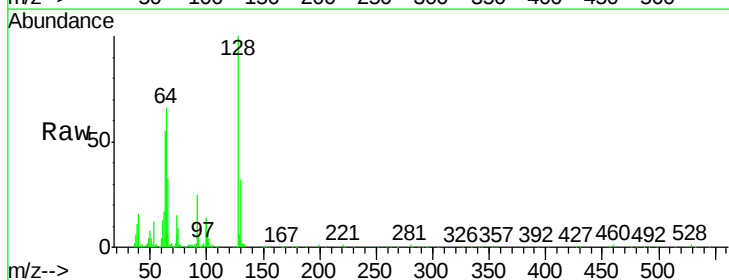
Tgt Ion: 128 Resp: 201887

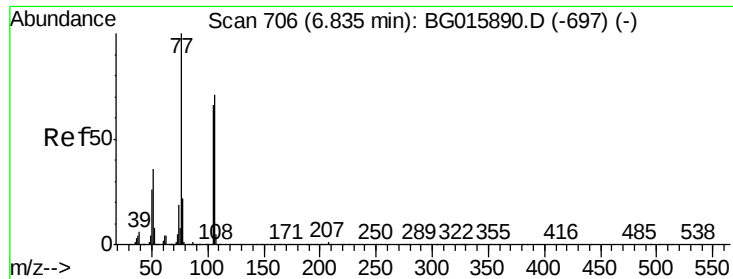
Ion Ratio Lower Upper

128 100

130 31.7 11.0 51.0

64 66.3 60.7 100.7





#9

Benzaldehyde

Concen: 6.64 ng

RT: 6.83 min Scan# 706

Delta R.T. 0.01 min

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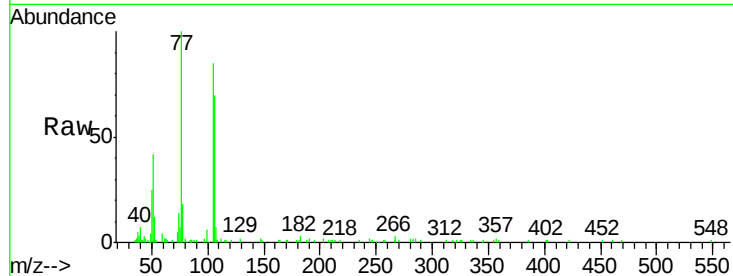
Tgt Ion: 77 Resp: 53334

Ion Ratio Lower Upper

77 100

105 84.8 46.0 86.0

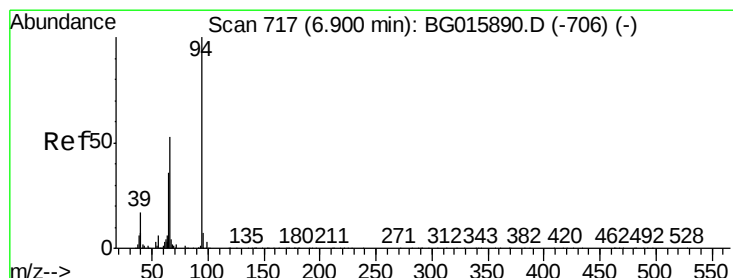
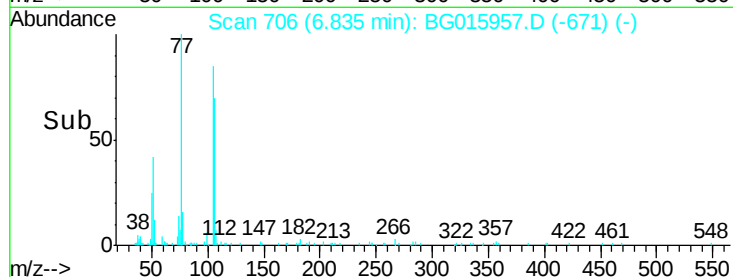
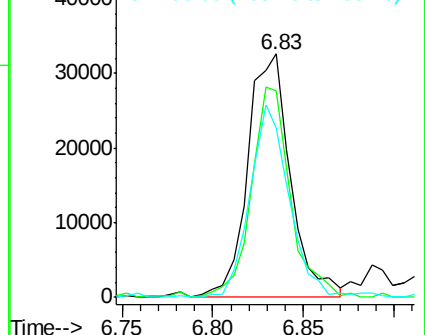
106 69.8 51.1 91.1



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



#10

Phenol

Concen: 33.15 ng

RT: 6.90 min Scan# 717

Delta R.T. 0.01 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

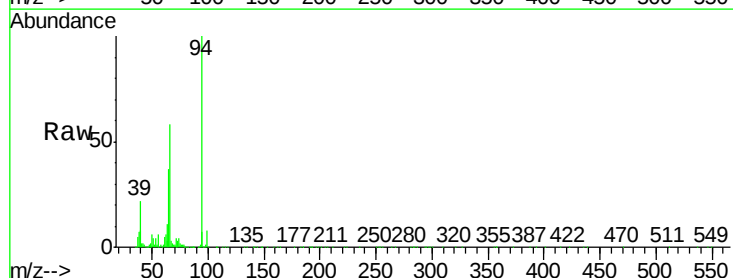
Tgt Ion: 94 Resp: 332951

Ion Ratio Lower Upper

94 100

65 36.9 16.5 56.5

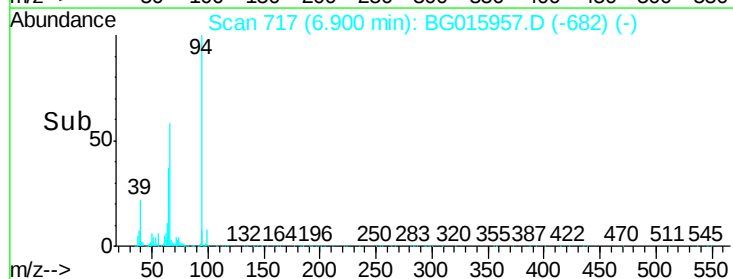
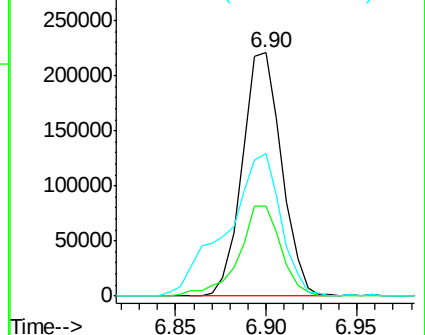
66 58.4 33.3 73.3

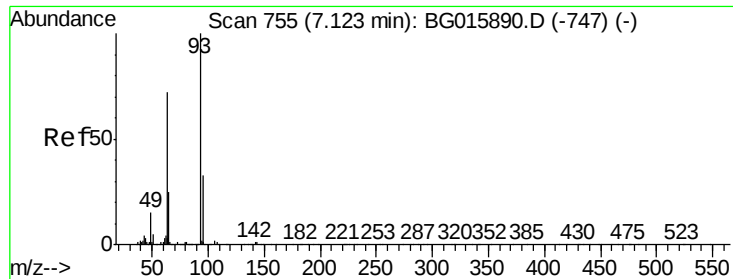


Abundance Ion 94.00 (93.70 to 94.70): BGC

Ion 65.00 (64.70 to 65.70): BGC

Ion 66.00 (65.70 to 66.70): BGC

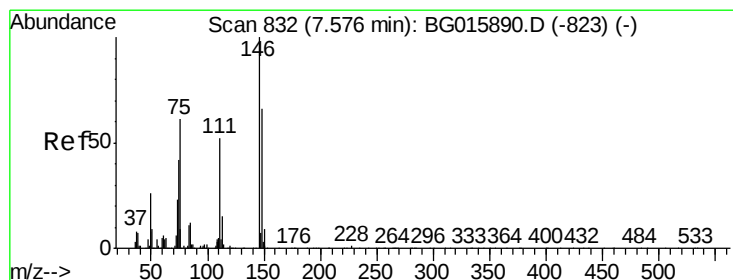
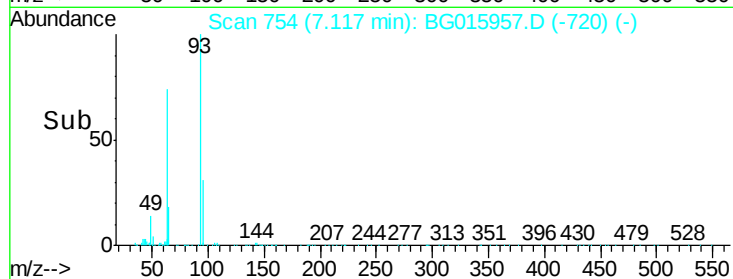
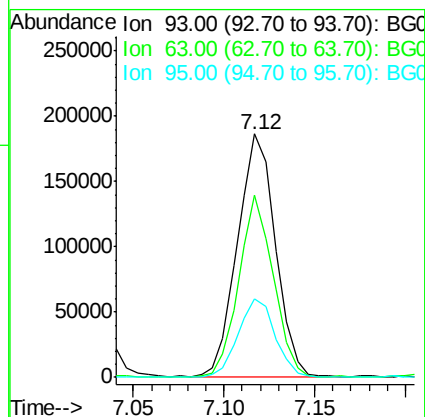
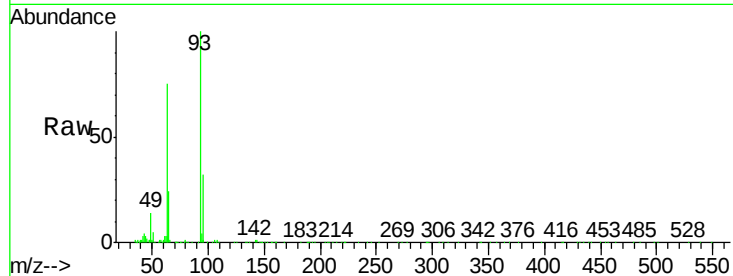




#11  
bis(2-Chloroethyl)ether  
Concen: 34.76 ng  
RT: 7.12 min Scan# 754  
Delta R.T. -0.00 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

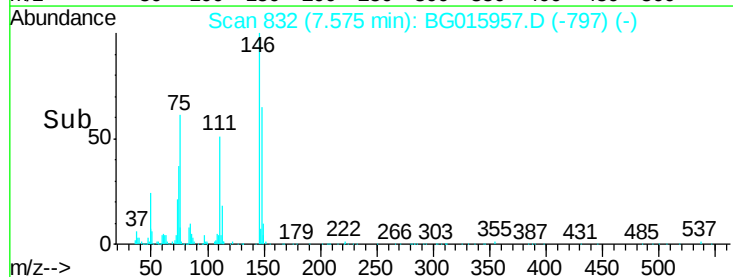
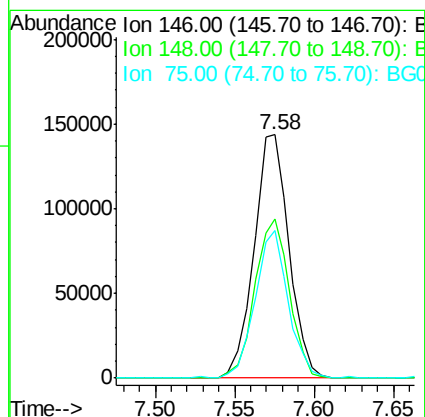
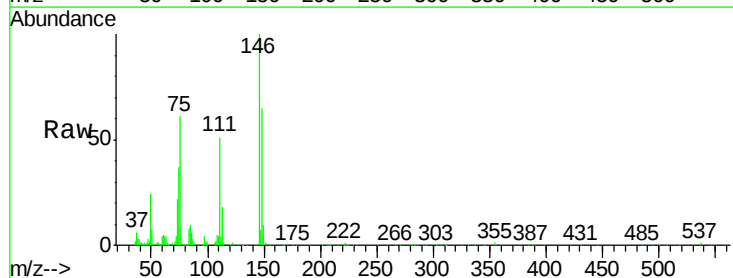
Instrument :  
BNA\_G  
ClientSampleId :  
DRILLCUTTINGSMSD

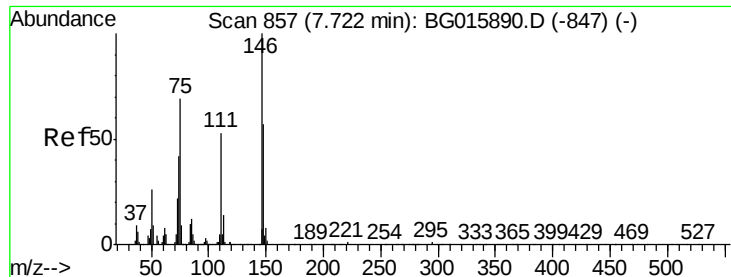
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 93    | Resp: | 269844 |
| Ion      | Ratio | Lower | Upper  |
| 93       | 100   |       |        |
| 63       | 74.9  | 51.7  | 91.7   |
| 95       | 32.3  | 12.7  | 52.7   |



#12  
1,3-Dichlorobenzene  
Concen: 35.45 ng  
RT: 7.58 min Scan# 832  
Delta R.T. 0.01 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 146   | Resp: | 220176 |
| Ion      | Ratio | Lower | Upper  |
| 146      | 100   |       |        |
| 148      | 65.2  | 53.0  | 79.4   |
| 75       | 60.7  | 48.6  | 72.8   |





#13

1,4-Dichlorobenzene

Concen: 35.92 ng

RT: 7.72 min Scan# 857

Delta R.T. -0.00 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

Instrument :

BNA\_G

ClientSampleId :

DRILLCUTTINGSMSD

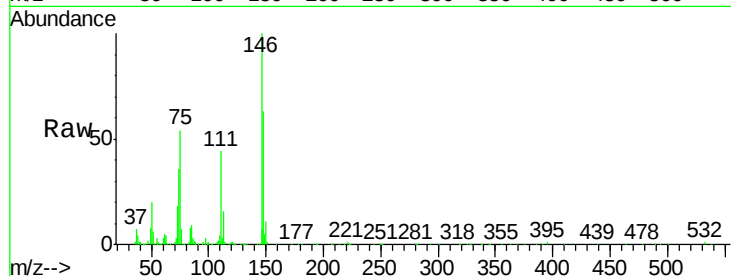
Tgt Ion:146 Resp: 230332

Ion Ratio Lower Upper

146 100

148 63.3 45.7 68.5

111 44.3 42.1 63.1

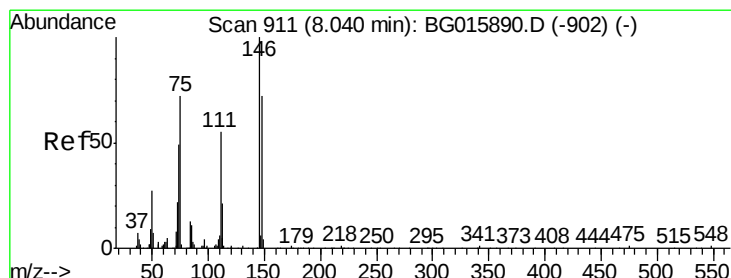
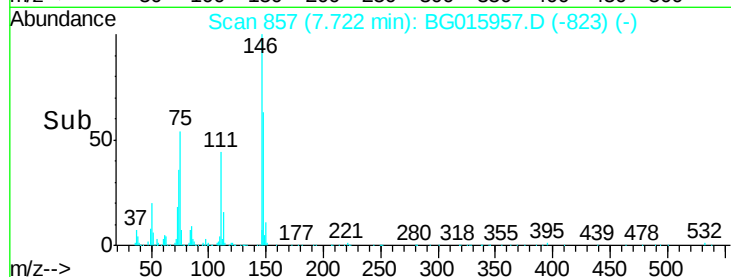
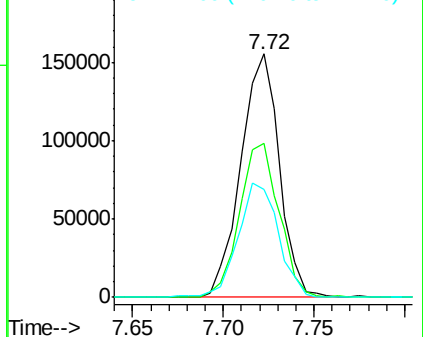


Abundance

Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E



#14

1,2-Dichlorobenzene

Concen: 34.20 ng

RT: 8.03 min Scan# 910

Delta R.T. 0.01 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

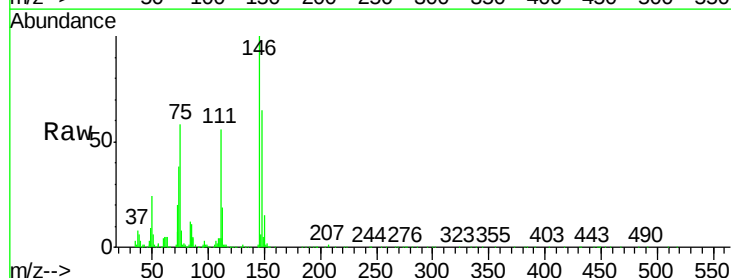
Tgt Ion:146 Resp: 214904

Ion Ratio Lower Upper

146 100

148 64.7 57.7 86.5

111 56.4 44.6 66.8

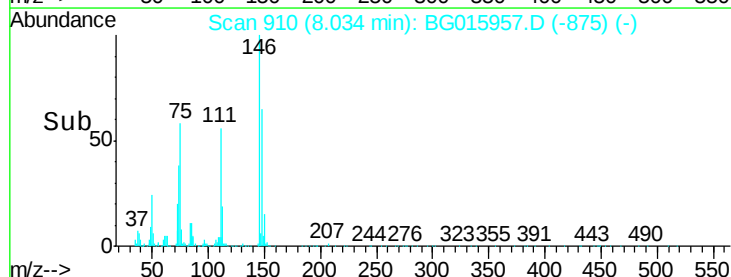
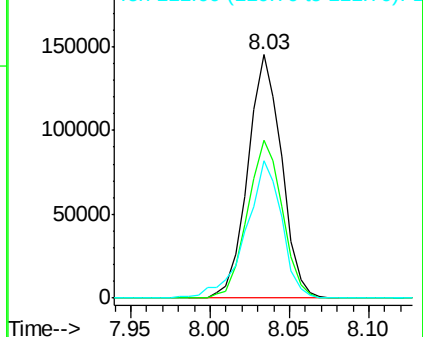


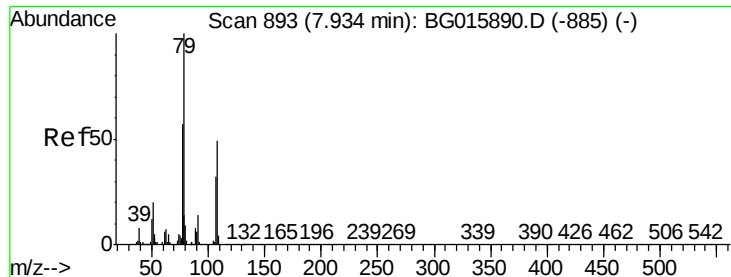
Abundance

Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E





#15

Benzyl Alcohol

Concen: 34.84 ng

RT: 7.93 min Scan# 892

Delta R.T. -0.00 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

Instrument :

BNA\_G

ClientSampleId :

DRILLCUTTINGSMSD

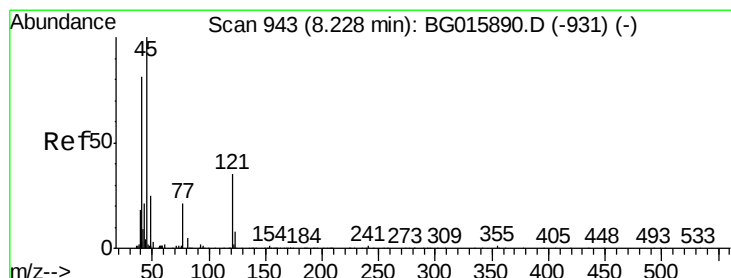
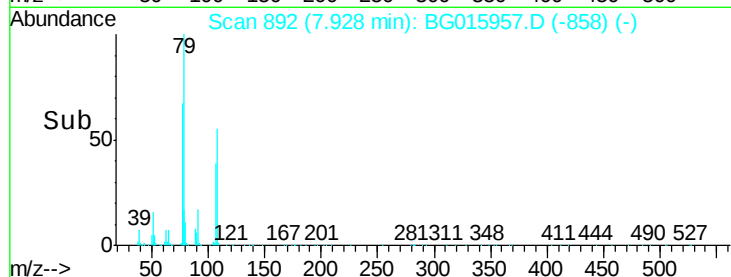
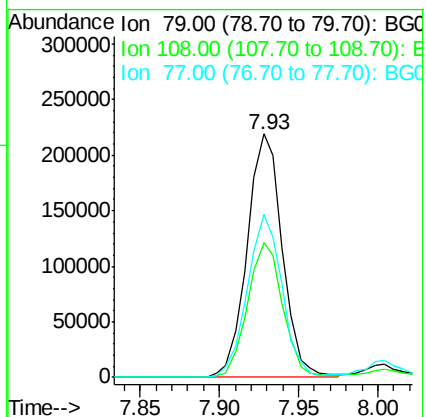
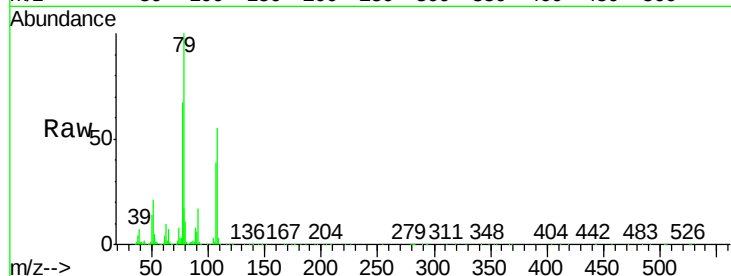
Tgt Ion: 79 Resp: 335931

Ion Ratio Lower Upper

79 100

108 55.4 38.9 58.3

77 66.9 46.1 69.1



#16

2,2'-oxybis(1-Chloropropane)

Concen: 31.70 ng

RT: 8.22 min Scan# 942

Delta R.T. -0.00 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

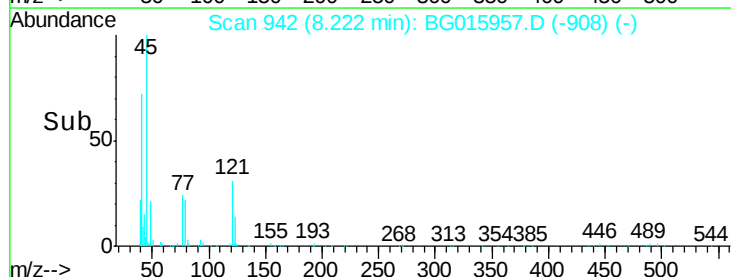
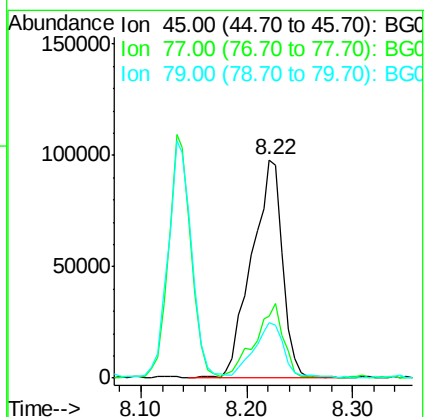
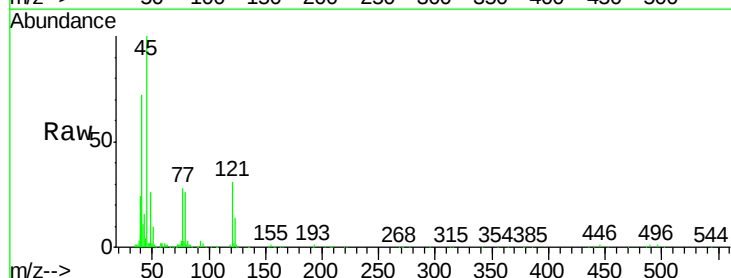
Tgt Ion: 45 Resp: 198864

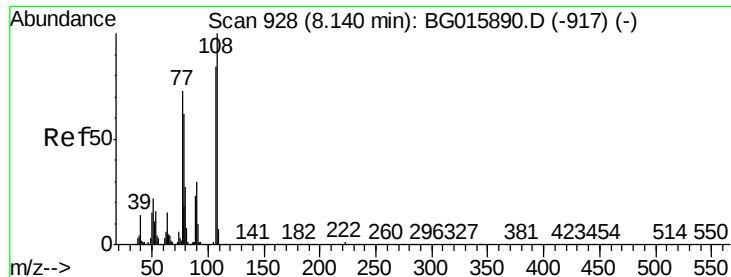
Ion Ratio Lower Upper

45 100

77 28.3 16.0 56.0

79 25.6 0.0 38.7

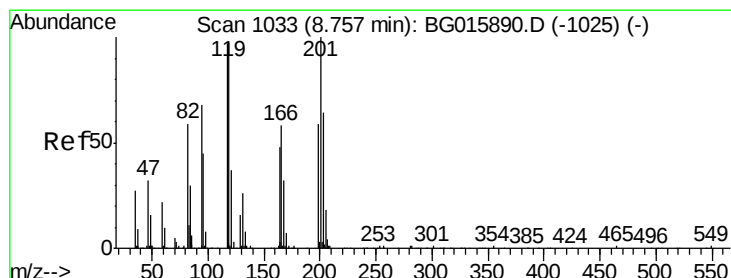
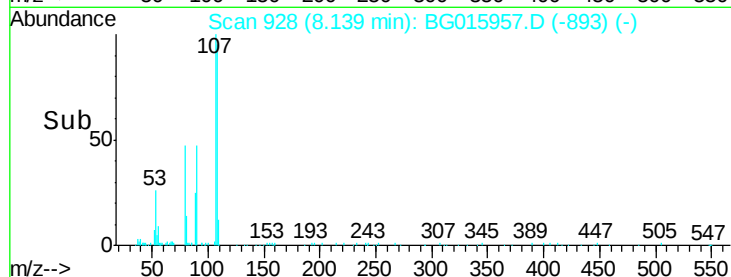
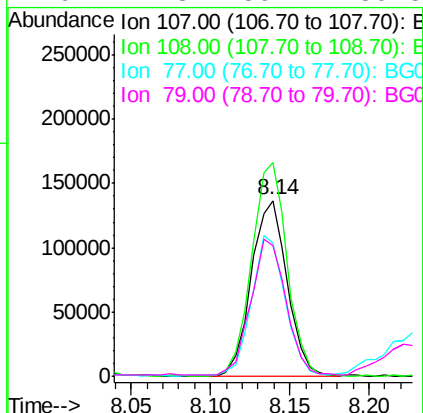
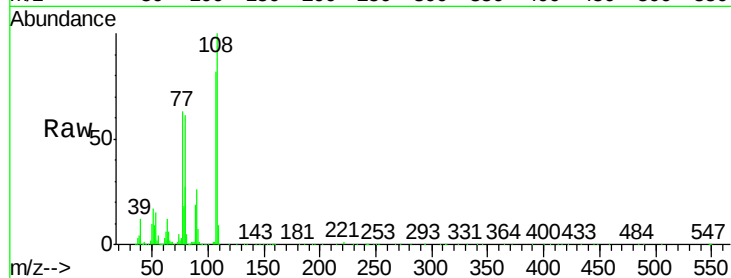




#17  
2-Methylphenol  
Concen: 34.38 ng  
RT: 8.14 min Scan# 928  
Delta R.T. 0.01 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

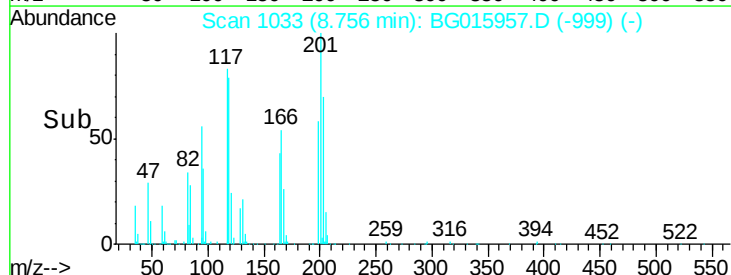
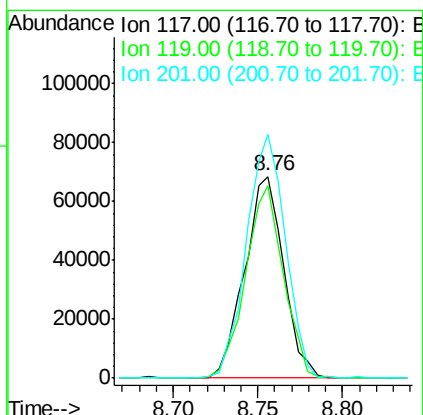
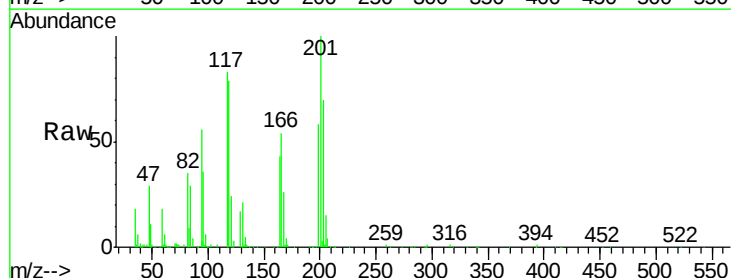
Instrument :  
BNA\_G  
ClientSampleId :  
DRILLCUTTINGSMSD

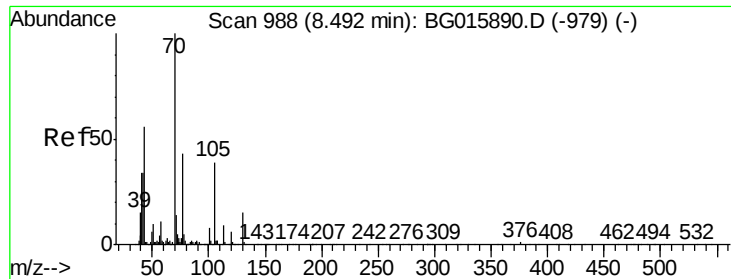
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 107   | Resp: | 213981 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 108      | 121.6 | 95.1  | 142.7  |
| 77       | 76.1  | 69.2  | 103.8  |
| 79       | 74.3  | 59.7  | 89.5   |



#18  
Hexachloroethane  
Concen: 33.43 ng  
RT: 8.76 min Scan# 1033  
Delta R.T. -0.00 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 110210 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 95.3  | 80.2  | 120.2  |
| 201      | 123.8 | 82.6  | 124.0  |

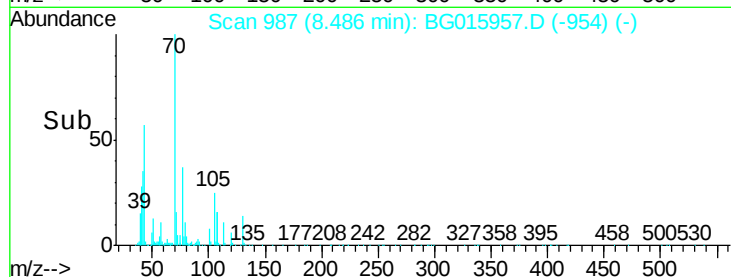
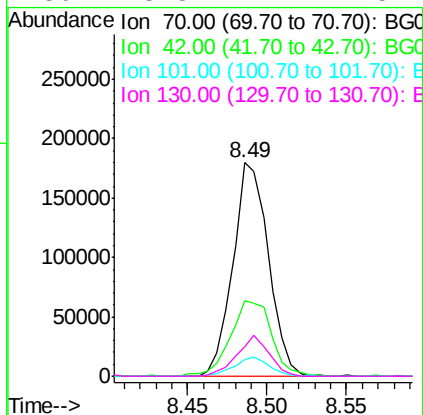
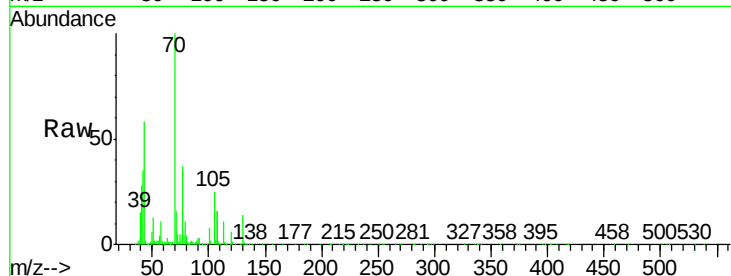




#19  
n-Nitroso-di-n-propylamine  
Concen: 31.77 ng  
RT: 8.49 min Scan# 987  
Delta R.T. -0.01 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

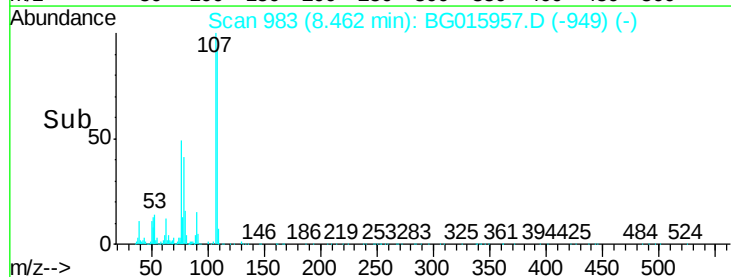
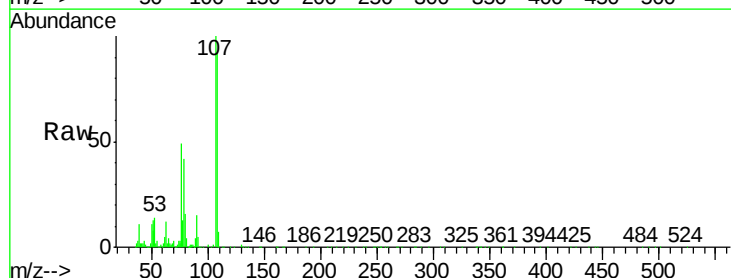
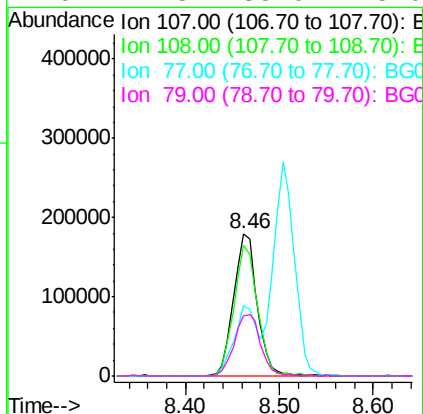
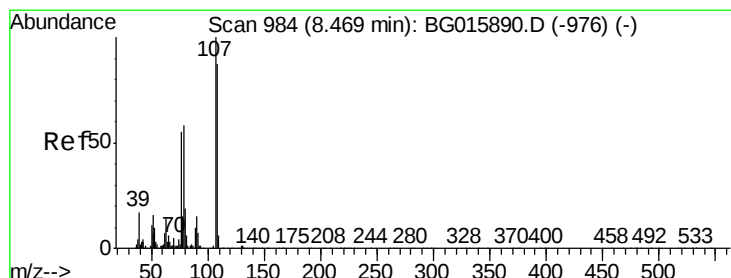
Instrument :  
BNA\_G  
ClientSampleId :  
DRILLCUTTINGSMSD

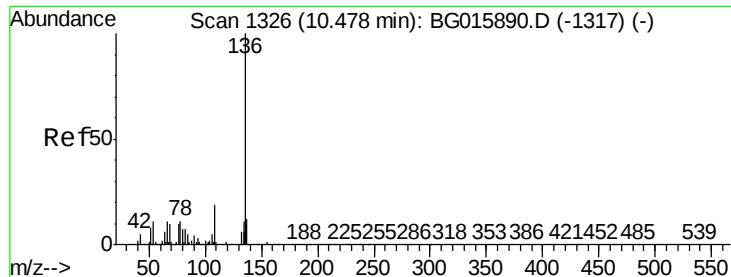
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 70    | Resp: | 279317 |
| Ion      | Ratio | Lower | Upper  |
| 70       | 100   |       |        |
| 42       | 35.4  | 26.8  | 40.2   |
| 101      | 7.7   | 6.3   | 9.5    |
| 130      | 13.8  | 12.2  | 18.4   |



#20  
3+4-Methylphenols  
Concen: 38.35 ng  
RT: 8.46 min Scan# 983  
Delta R.T. -0.00 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 107   | Resp: | 312904 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 108      | 91.9  | 66.9  | 106.9  |
| 77       | 49.5  | 34.8  | 74.8   |
| 79       | 41.8  | 38.0  | 78.0   |

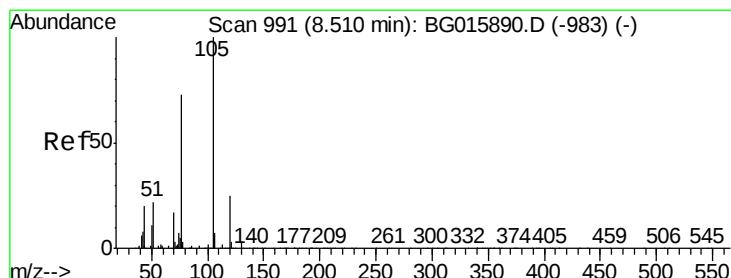
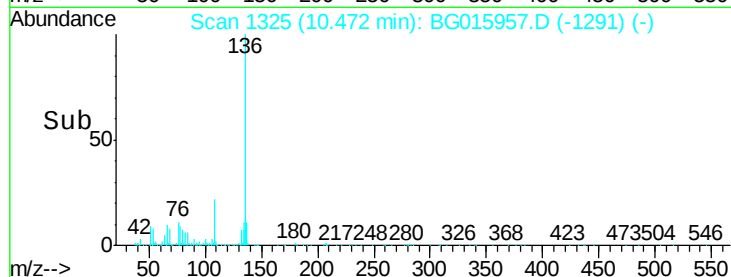
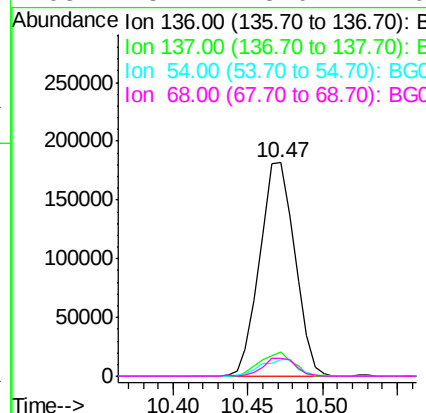
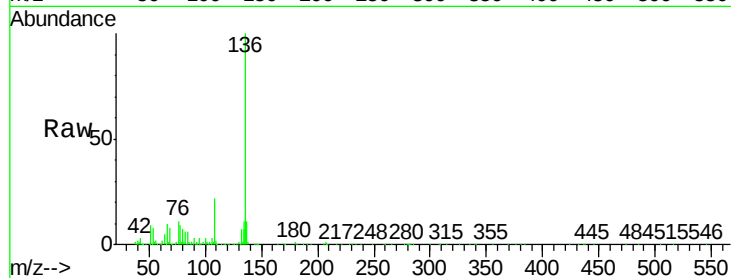




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.47 min Scan# 1325  
Delta R.T. -0.00 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

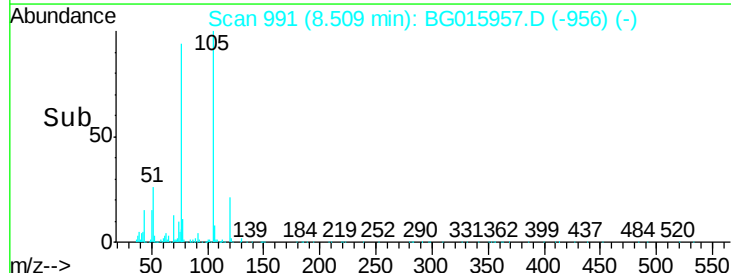
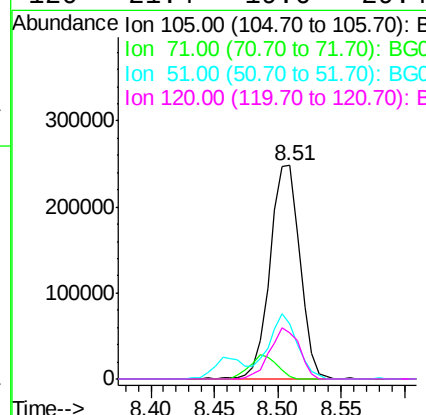
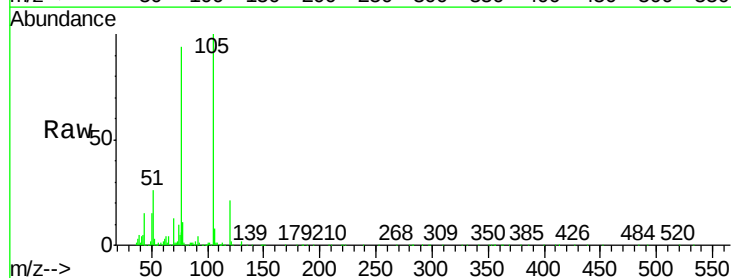
Instrument :  
BNA\_G  
ClientSampleId :  
DRILLCUTTINGSMSD

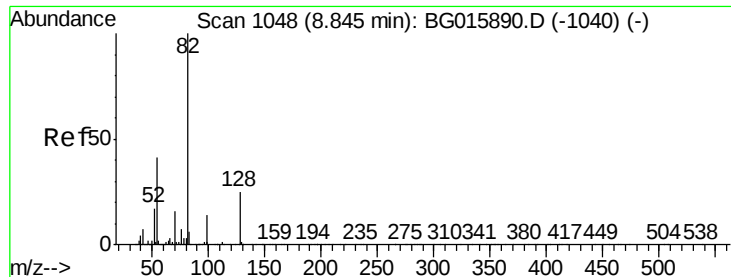
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 296248 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.2  | 9.7   | 14.5   |
| 54        | 7.8   | 8.5   | 12.7#  |
| 68        | 8.1   | 8.0   | 12.0   |



#22  
Acetophenone  
Concen: 41.30 ng  
RT: 8.51 min Scan# 991  
Delta R.T. 0.01 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 410032 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 71        | 1.4   | 2.4   | 3.6#   |
| 51        | 25.8  | 24.6  | 36.8   |
| 120       | 21.4  | 19.6  | 29.4   |

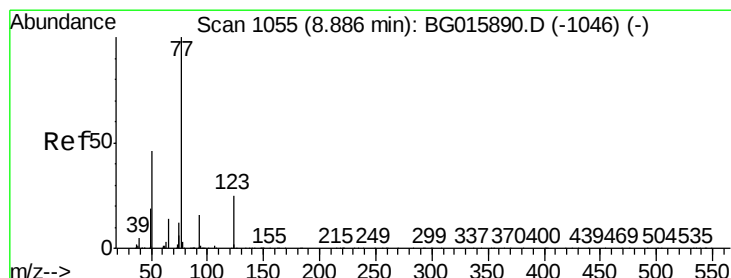
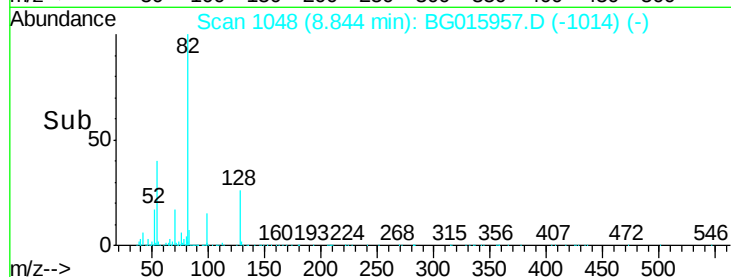
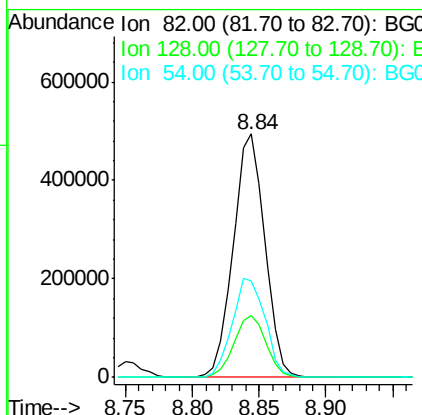
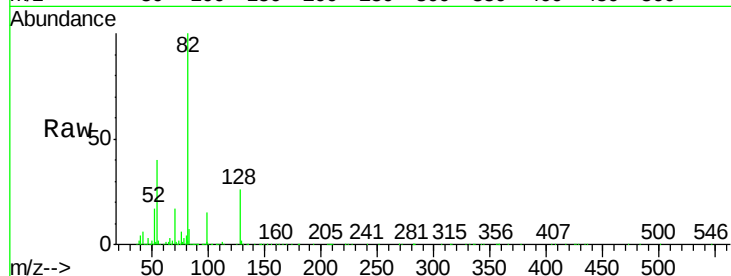




#23  
 Nitrobenzene-d5  
 Concen: 79.00 ng  
 RT: 8.84 min Scan# 1048  
 Delta R.T. -0.00 min  
 Lab File: BG015957.D  
 Acq: 27 Jan 2015 22:34

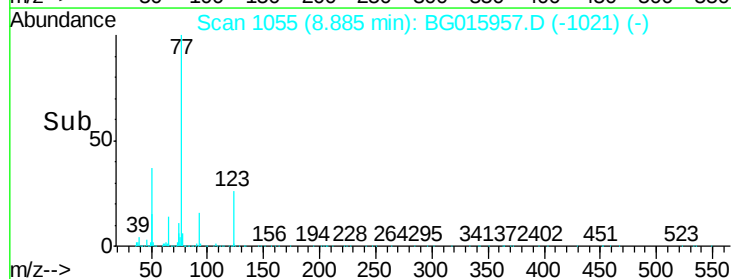
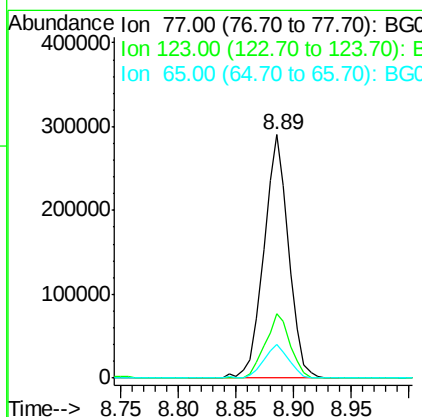
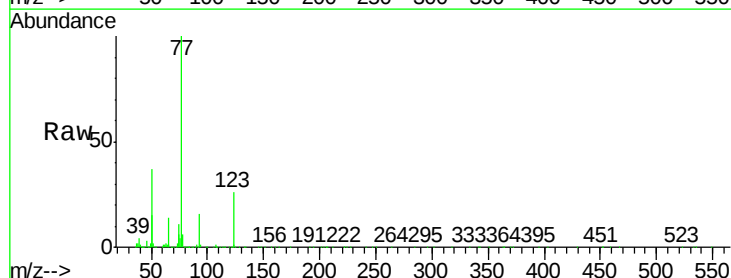
Instrument :  
 BNA\_G  
 ClientSampleId :  
 DRILLCUTTINGSMSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 25.6  | 19.8  | 29.8  |
| 54      | 39.6  | 33.0  | 49.4  |



#24  
 Nitrobenzene  
 Concen: 40.18 ng  
 RT: 8.89 min Scan# 1055  
 Delta R.T. -0.00 min  
 Lab File: BG015957.D  
 Acq: 27 Jan 2015 22:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 123     | 26.3  | 20.0  | 30.0  |
| 65      | 13.7  | 11.0  | 16.4  |

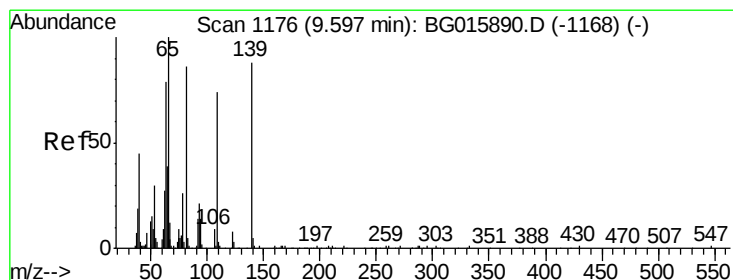
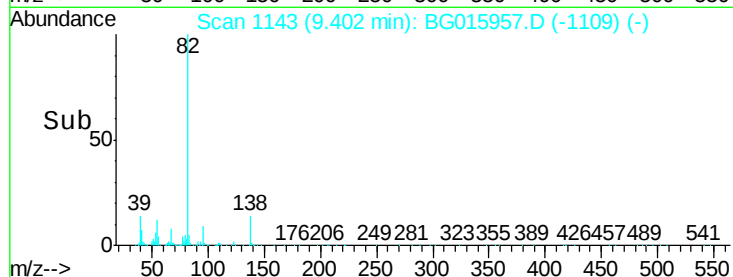
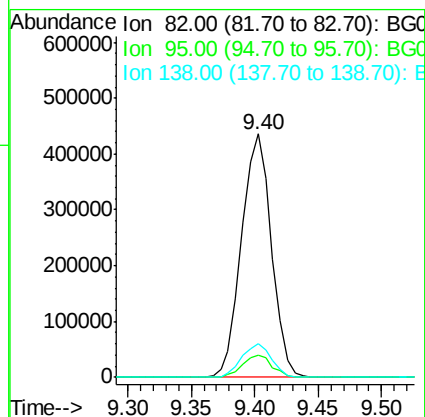
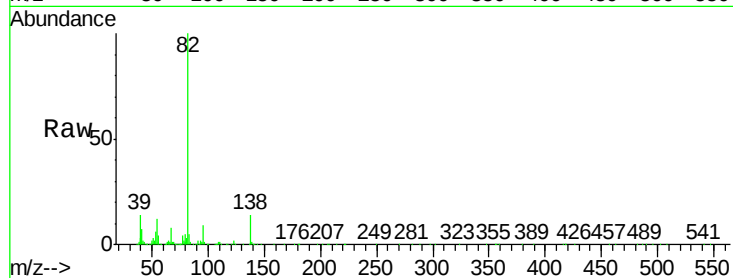




#25  
Isophorone  
Concen: 39.25 ng  
RT: 9.40 min Scan# 1143  
Delta R.T. -0.00 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

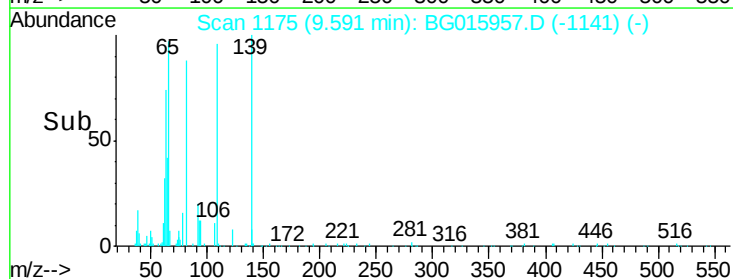
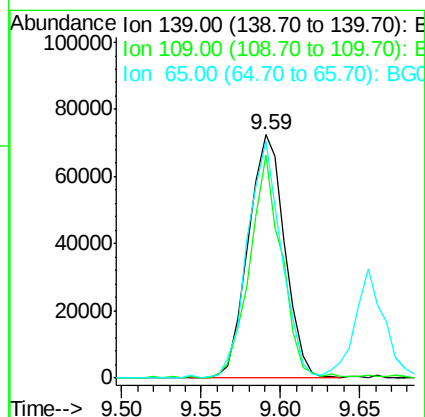
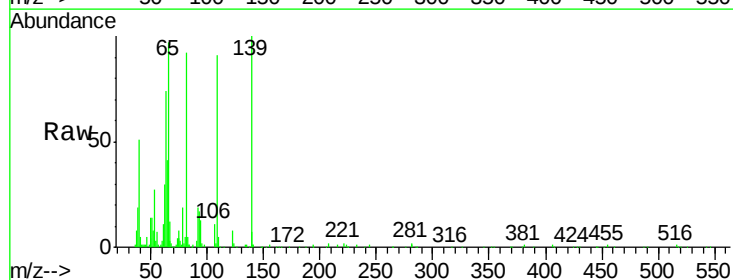
Instrument :  
BNA\_G  
ClientSampleId :  
DRILLCUTTINGSMSD

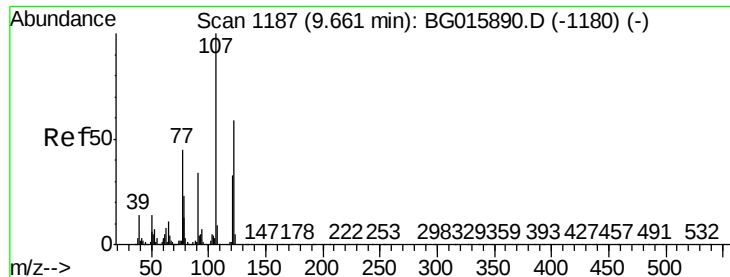
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 95      | 9.0   | 8.1   | 12.1  |
| 138     | 14.0  | 9.1   | 13.7# |



#26  
2-Nitrophenol  
Concen: 43.32 ng  
RT: 9.59 min Scan# 1175  
Delta R.T. -0.00 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 139     | 100   |       |       |
| 109     | 91.4  | 67.2  | 100.8 |
| 65      | 97.5  | 91.3  | 136.9 |

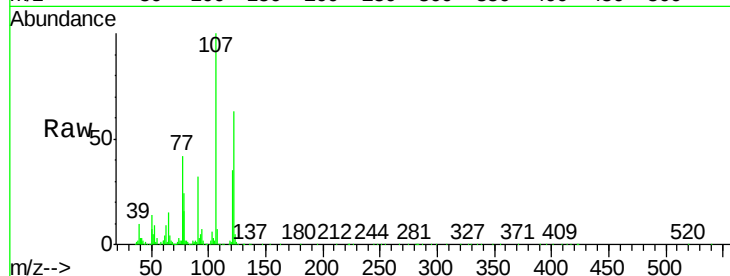




#27  
2,4-Dimethylphenol  
Concen: 42.31 ng  
RT: 9.66 min Scan# 1186  
Delta R.T. -0.00 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

Instrument :  
BNA\_G  
ClientSampleId :  
DRILLCUTTINGSMSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 122     | 100   |       |       |
| 107     | 157.9 | 136.8 | 205.2 |
| 121     | 55.5  | 44.9  | 67.3  |

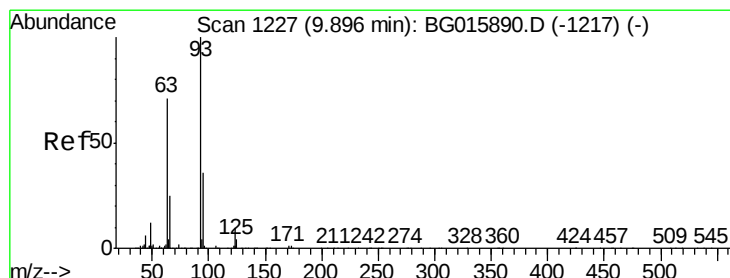
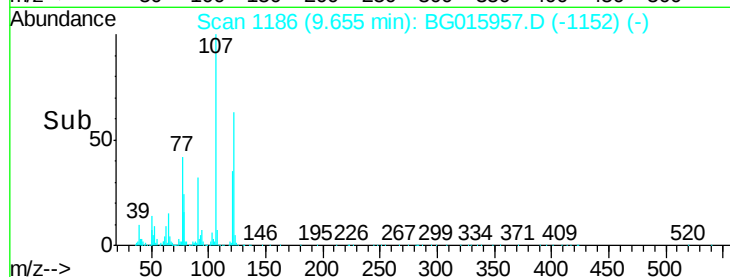
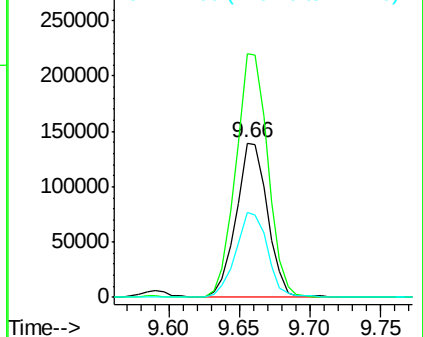


Abundance

Ion 122.00 (121.70 to 122.70): E

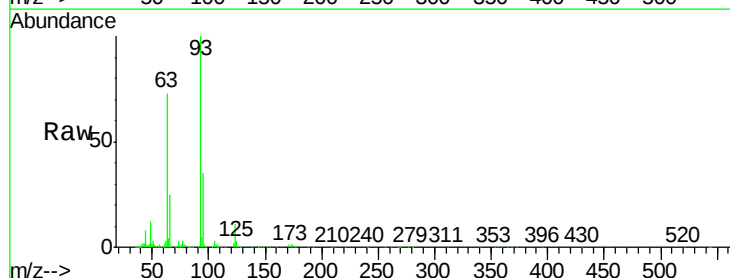
Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E



#28  
bis(2-Chloroethoxy)methane  
Concen: 39.70 ng  
RT: 9.89 min Scan# 1226  
Delta R.T. -0.00 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 95      | 34.5  | 28.6  | 42.8  |
| 123     | 10.9  | 7.9   | 11.9  |

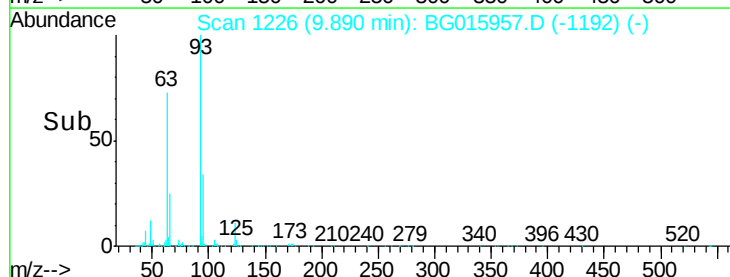
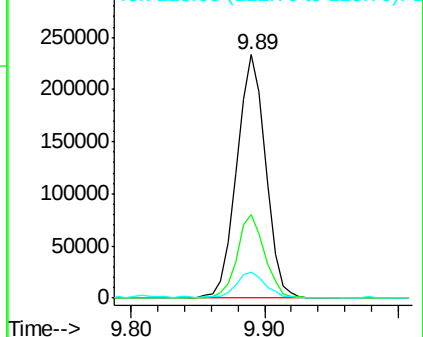


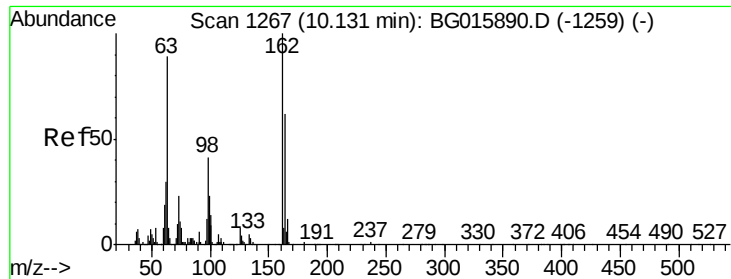
Abundance

Ion 93.00 (92.70 to 93.70): BGC

Ion 95.00 (94.70 to 95.70): BGC

Ion 123.00 (122.70 to 123.70): E

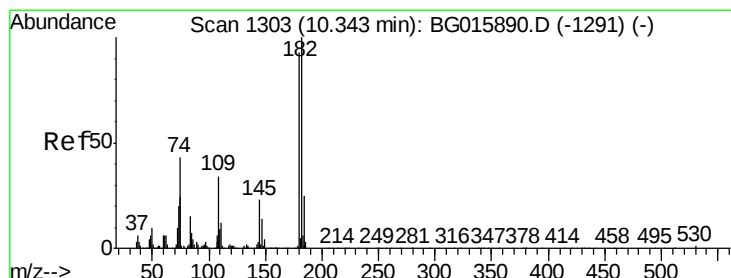
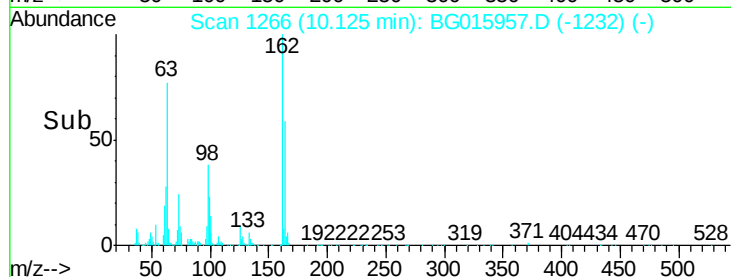
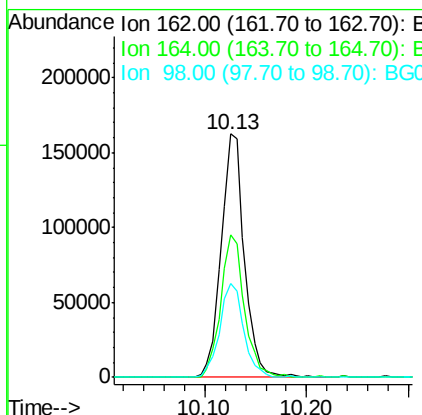
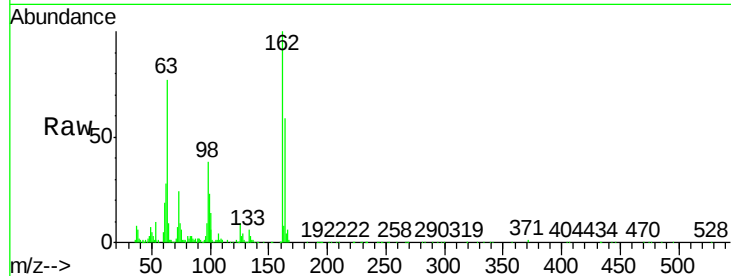




#29  
 2,4-Dichlorophenol  
 Concen: 48.46 ng  
 RT: 10.13 min Scan# 1266  
 Delta R.T. -0.00 min  
 Lab File: BG015957.D  
 Acq: 27 Jan 2015 22:34

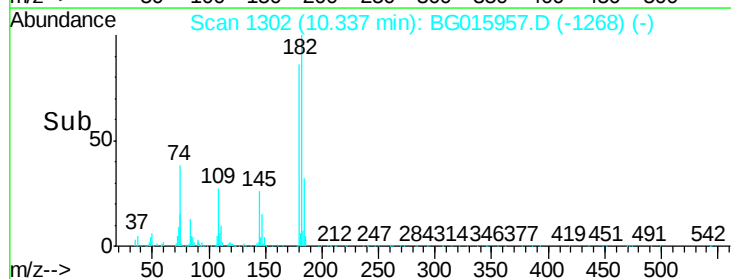
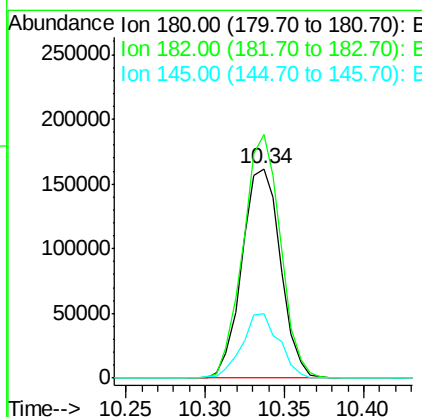
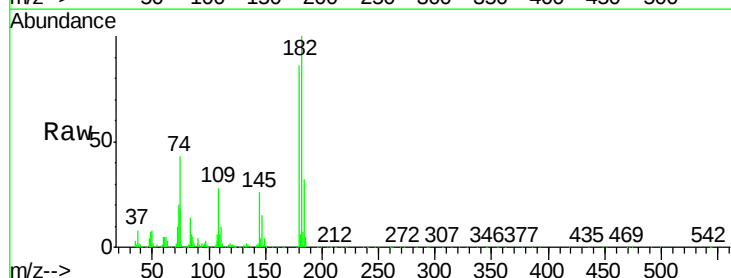
Instrument :  
 BNA\_G  
 ClientSampleId :  
 DRILLCUTTINGSMSD

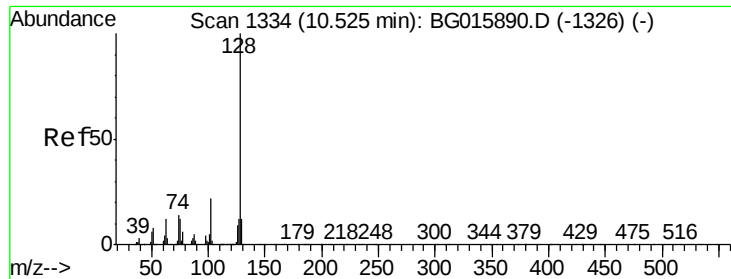
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 164     | 58.6  | 42.5  | 82.5  |
| 98      | 38.4  | 21.1  | 61.1  |



#30  
 1,2,4-Trichlorobenzene  
 Concen: 42.04 ng  
 RT: 10.34 min Scan# 1302  
 Delta R.T. -0.00 min  
 Lab File: BG015957.D  
 Acq: 27 Jan 2015 22:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 116.1 | 86.4  | 129.6 |
| 145     | 30.5  | 20.1  | 30.1# |

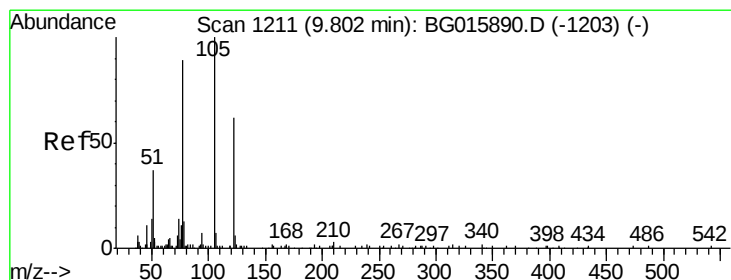
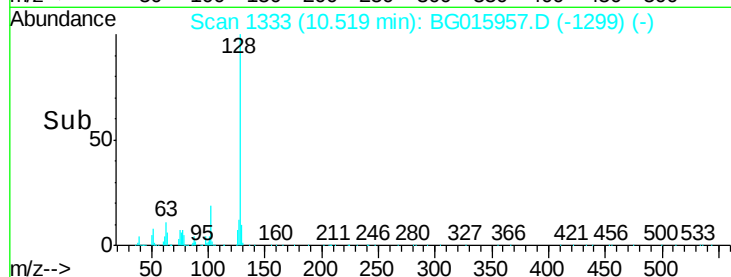
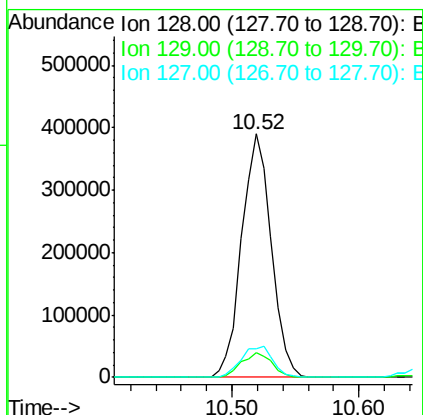
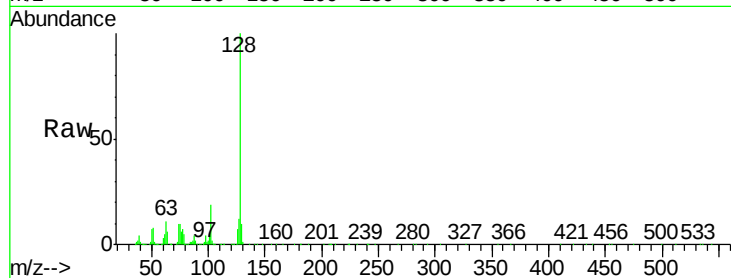




#31  
Naphthalene  
Concen: 41.67 ng  
RT: 10.52 min Scan# 1333  
Delta R.T. -0.00 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

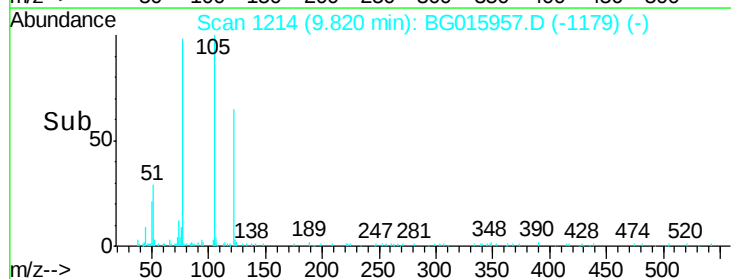
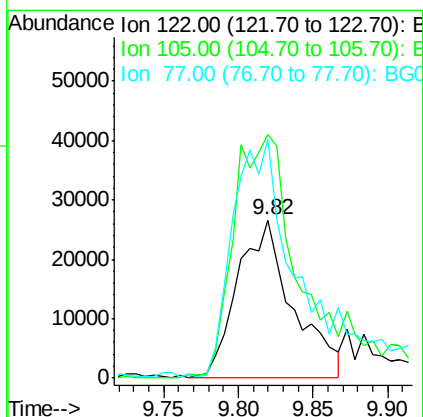
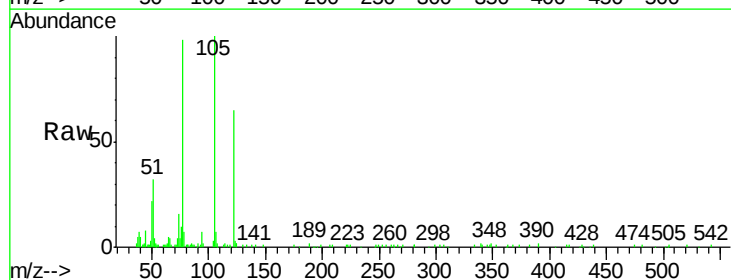
Instrument :  
BNA\_G  
ClientSampleId :  
DRILLCUTTINGSMSD

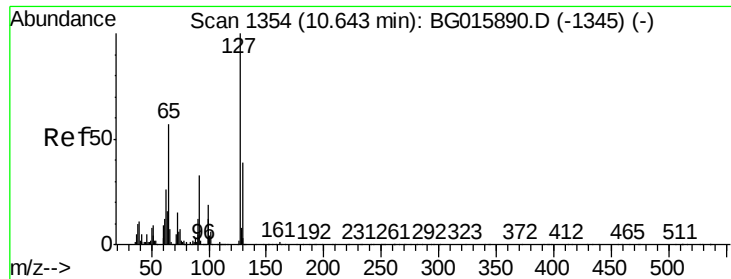
Tgt Ion:128 Resp: 631875  
Ion Ratio Lower Upper  
128 100  
129 10.0 9.7 14.5  
127 11.9 9.8 14.6



#32  
Benzoic acid  
Concen: 43.96 ng  
RT: 9.82 min Scan# 1214  
Delta R.T. 0.01 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

Tgt Ion:122 Resp: 68525  
Ion Ratio Lower Upper  
122 100  
105 153.9 140.2 180.2  
77 150.8 126.4 166.4

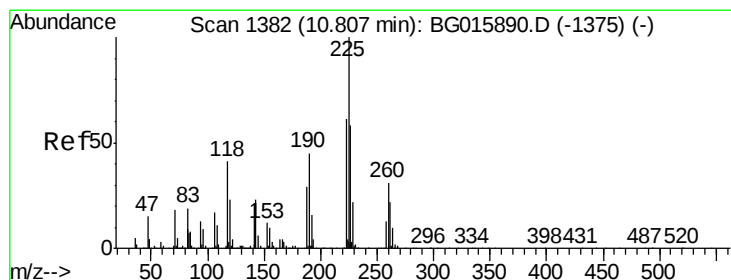
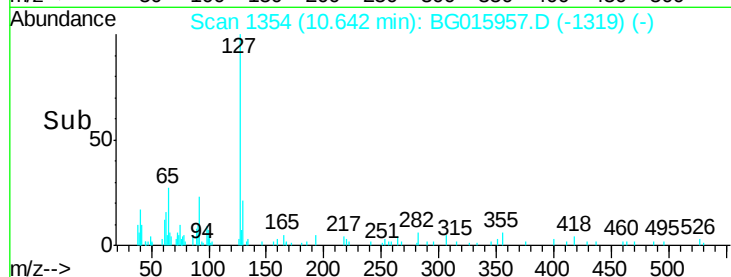
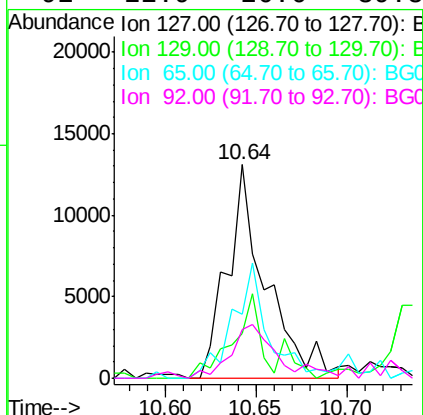
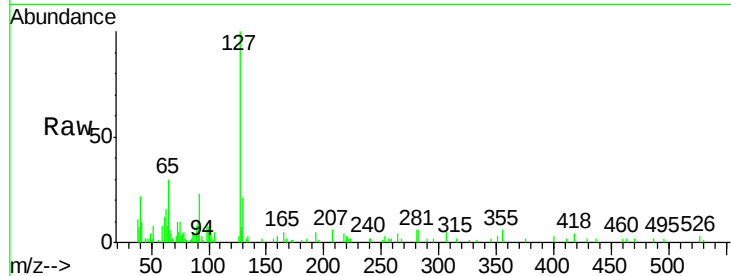




#33  
4-Chloroaniline  
Concen: 2.78 ng  
RT: 10.64 min Scan# 1354  
Delta R.T. 0.01 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

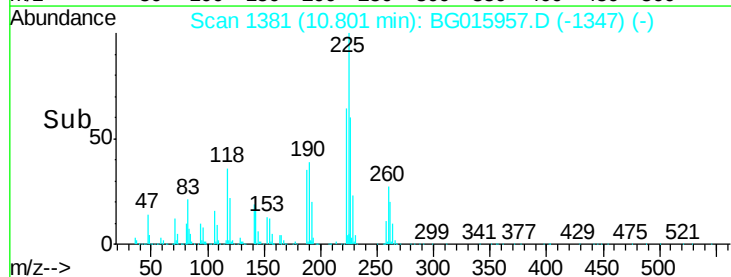
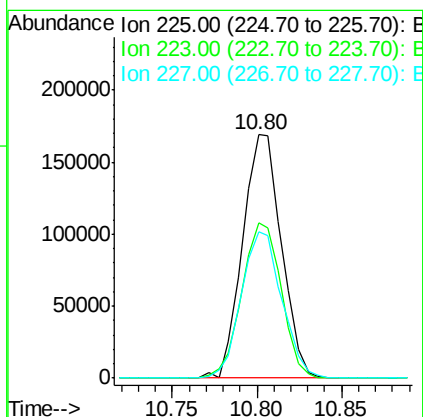
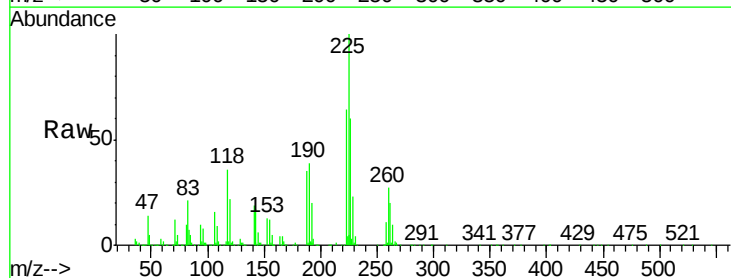
Instrument :  
BNA\_G  
ClientSampleId :  
DRILLCUTTINGSMSD

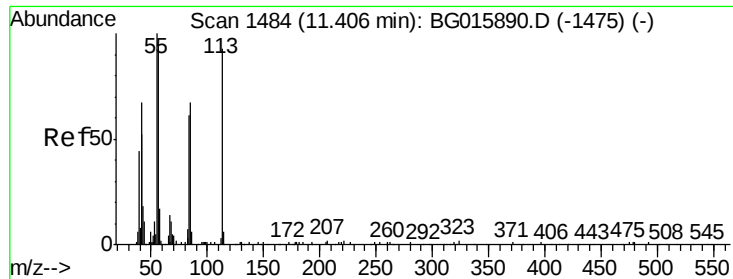
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 127   | Resp: | 19659 |
| Ion      | Ratio | Lower | Upper |
| 127      | 100   |       |       |
| 129      | 20.7  | 30.8  | 46.2# |
| 65       | 30.0  | 45.4  | 68.2# |
| 92       | 22.9  | 26.6  | 39.8# |



#34  
Hexachlorobutadiene  
Concen: 42.31 ng  
RT: 10.80 min Scan# 1381  
Delta R.T. -0.00 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 225   | Resp: | 268456 |
| Ion      | Ratio | Lower | Upper  |
| 225      | 100   |       |        |
| 223      | 60.5  | 49.9  | 74.9   |
| 227      | 56.9  | 45.3  | 67.9   |





#35

Caprolactam

Concen: 28.50 ng

RT: 11.41 min Scan# 1484

Delta R.T. -0.01 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

Instrument :

BNA\_G

ClientSampleId :

DRILLCUTTINGSMSD

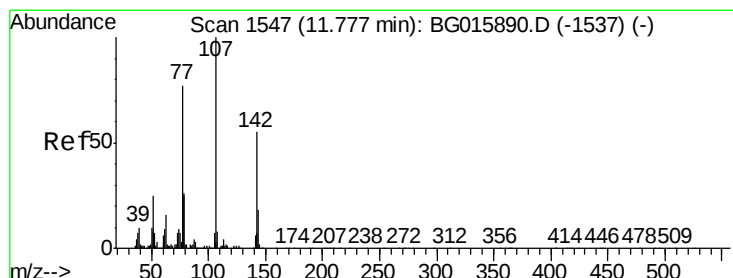
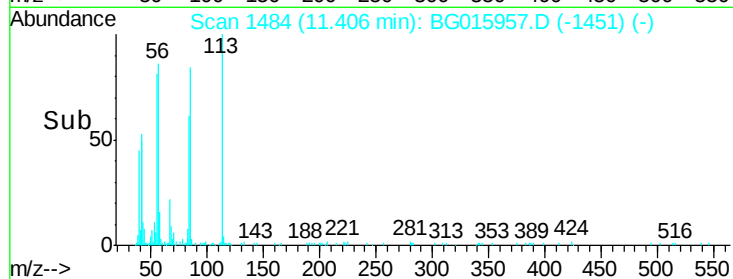
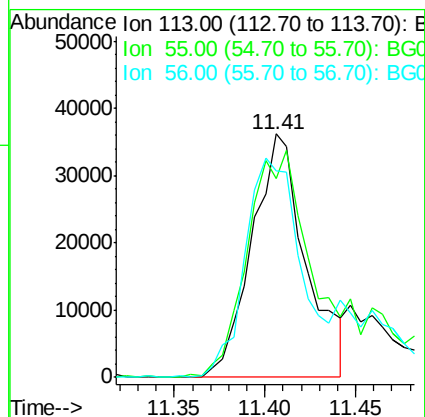
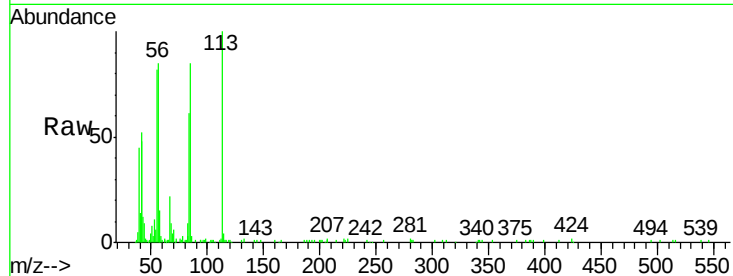
Tgt Ion:113 Resp: 74912

Ion Ratio Lower Upper

113 100

55 81.7 89.2 129.2#

56 85.1 82.4 122.4



#36

4-Chloro-3-methylphenol

Concen: 43.51 ng

RT: 11.78 min Scan# 1547

Delta R.T. -0.00 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

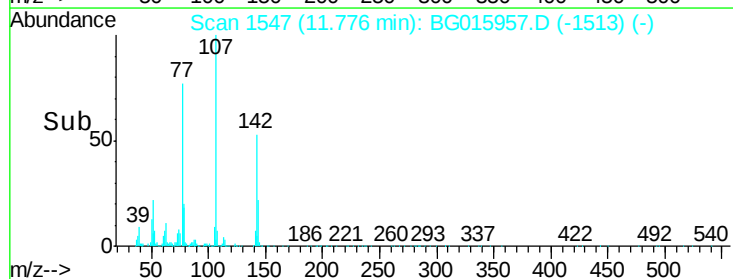
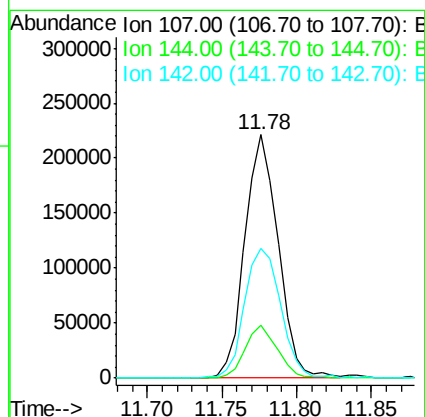
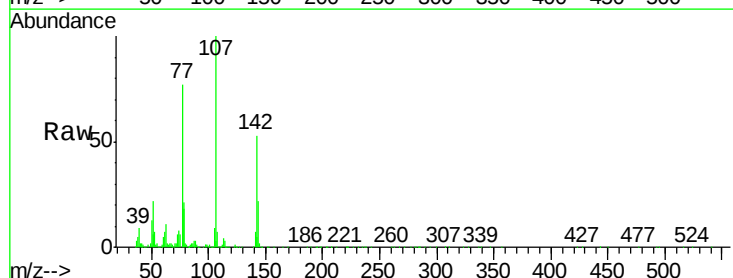
Tgt Ion:107 Resp: 342346

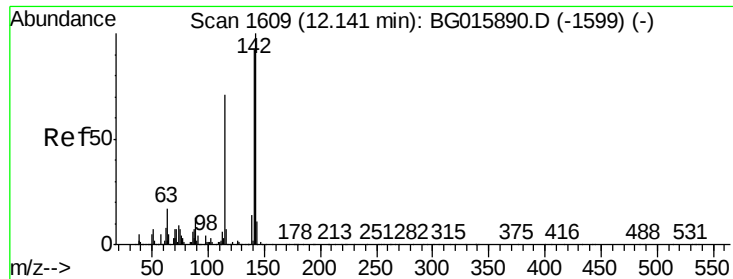
Ion Ratio Lower Upper

107 100

144 21.8 14.6 22.0

142 53.2 43.8 65.6

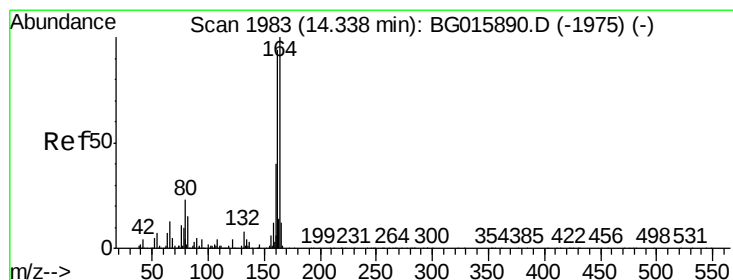
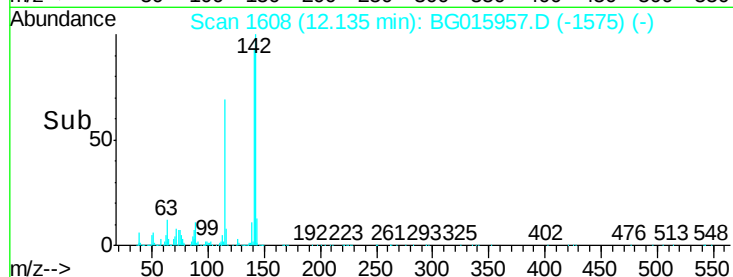
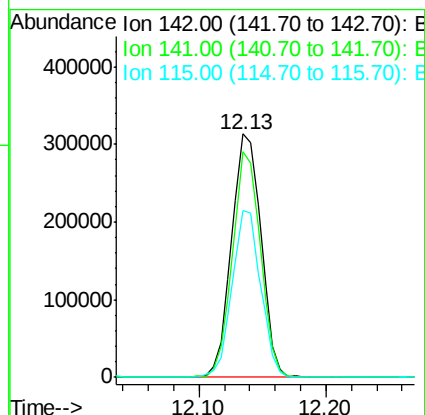
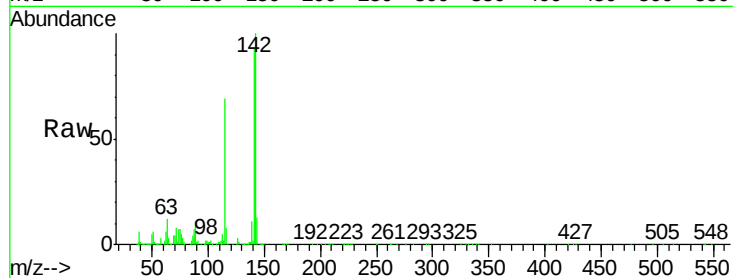




#37  
2-Methylnaphthalene  
Concen: 41.78 ng  
RT: 12.13 min Scan# 1608  
Delta R.T. -0.01 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

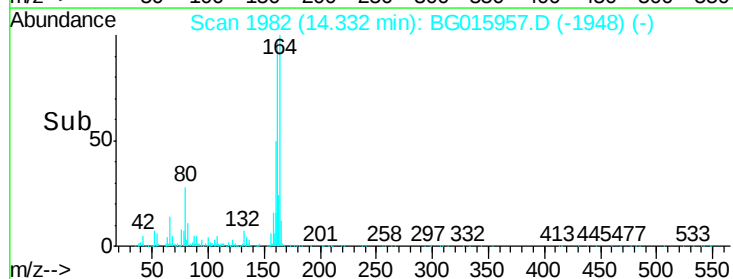
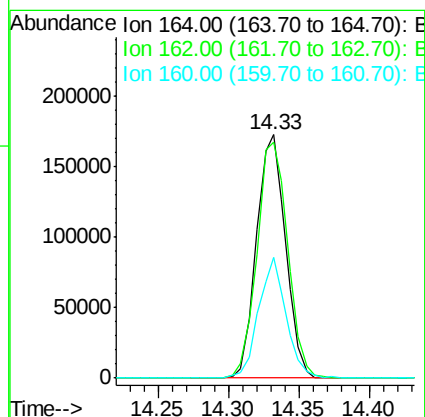
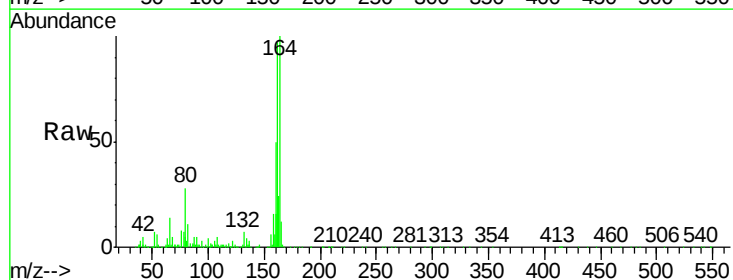
Instrument :  
BNA\_G  
ClientSampleId :  
DRILLCUTTINGSMSD

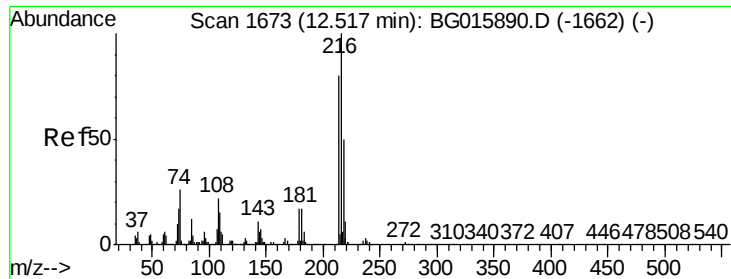
Tgt Ion:142 Resp: 503117  
Ion Ratio Lower Upper  
142 100  
141 92.6 73.8 110.8  
115 68.7 56.6 84.8



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.33 min Scan# 1982  
Delta R.T. -0.00 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

Tgt Ion:164 Resp: 249735  
Ion Ratio Lower Upper  
164 100  
162 96.7 75.1 112.7  
160 49.7 32.3 48.5#

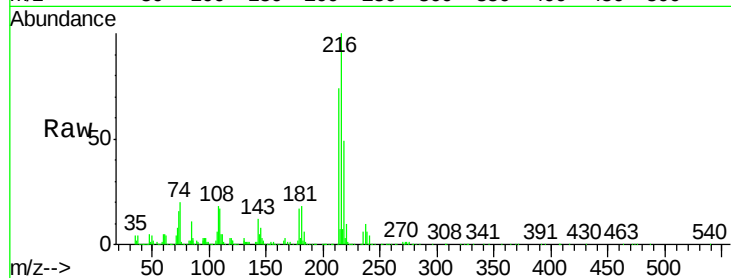




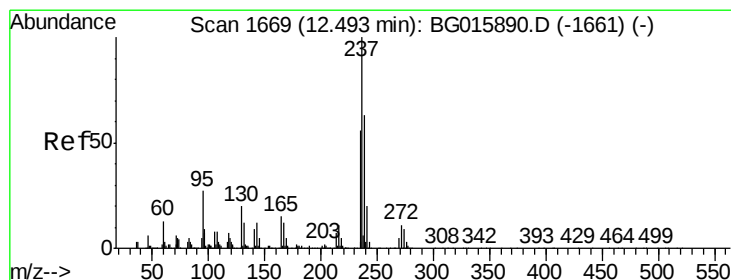
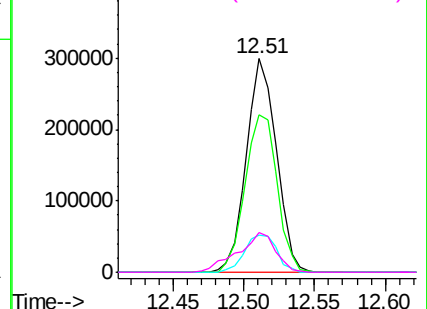
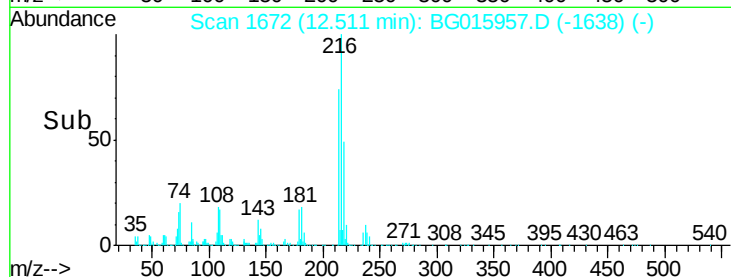
#39  
 1,2,4,5-Tetrachlorobenzene  
 Concen: 46.90 ng  
 RT: 12.51 min Scan# 1672  
 Delta R.T. -0.00 min  
 Lab File: BG015957.D  
 Acq: 27 Jan 2015 22:34

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DRILLCUTTINGSMSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 216     | 100   |       |       |
| 214     | 78.7  | 64.1  | 96.1  |
| 179     | 18.6  | 14.5  | 21.7  |
| 108     | 23.2  | 20.6  | 31.0  |

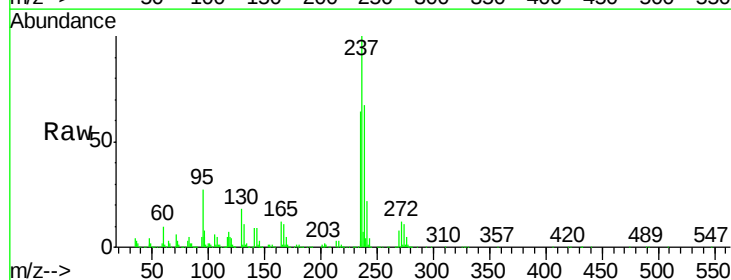


Abundance Ion 216.00 (215.70 to 216.70): E  
 Ion 214.00 (213.70 to 214.70): E  
 Ion 179.00 (178.70 to 179.70): E  
 Ion 108.00 (107.70 to 108.70): E

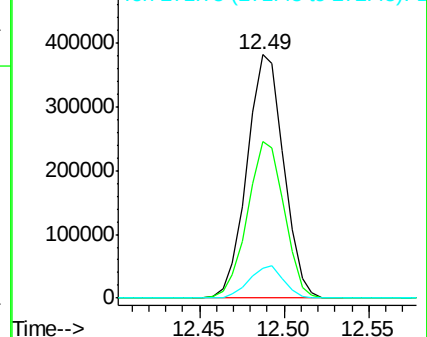
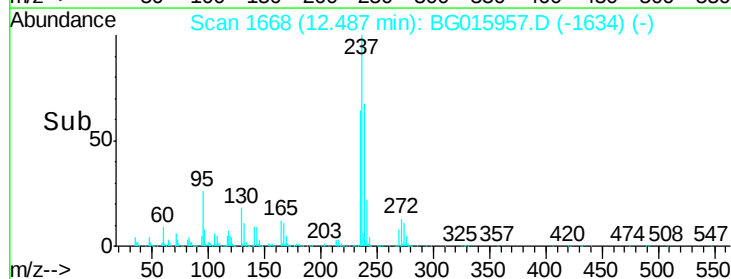


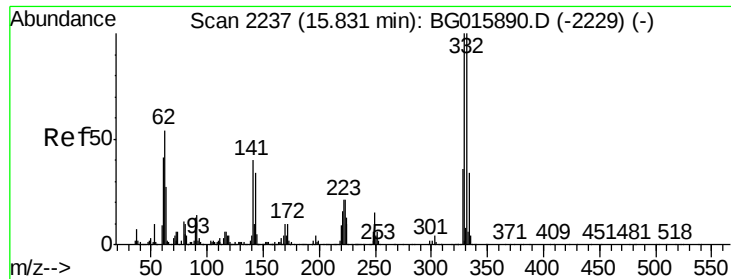
#40  
 Hexachlorocyclopentadiene  
 Concen: 80.43 ng  
 RT: 12.49 min Scan# 1668  
 Delta R.T. -0.00 min  
 Lab File: BG015957.D  
 Acq: 27 Jan 2015 22:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 237     | 100   |       |       |
| 235     | 64.4  | 36.2  | 76.2  |
| 272     | 12.5  | 0.0   | 31.4  |



Abundance Ion 236.80 (236.50 to 237.50): E  
 Ion 234.90 (234.60 to 235.60): E  
 Ion 271.75 (271.45 to 272.45): E

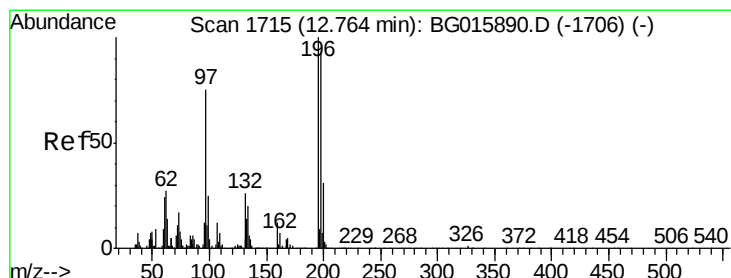
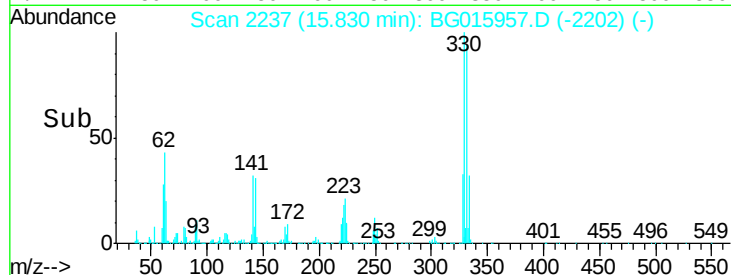
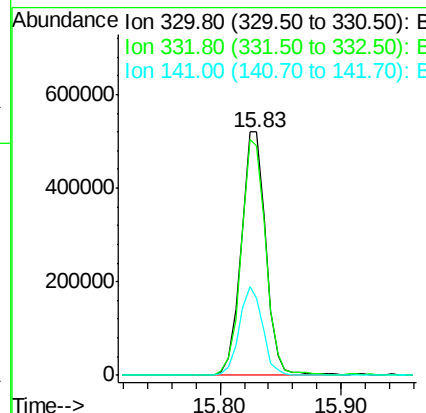
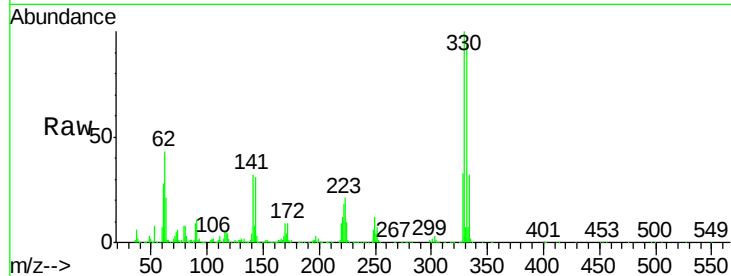




#41  
 2,4,6-Tribromophenol  
 Concen: 161.44 ng  
 RT: 15.83 min Scan# 2237  
 Delta R.T. 0.01 min  
 Lab File: BG015957.D  
 Acq: 27 Jan 2015 22:34

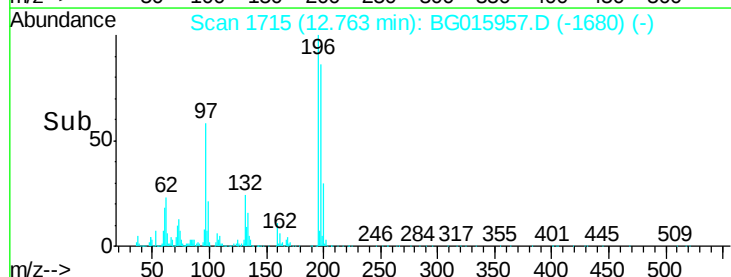
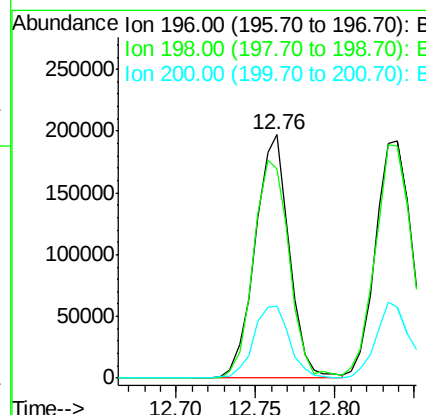
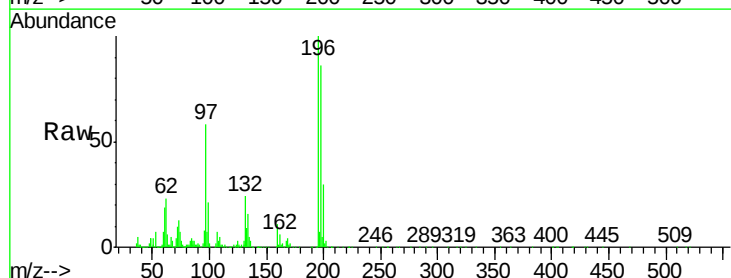
Instrument :  
 BNA\_G  
 ClientSampleId :  
 DRILLCUTTINGSMSD

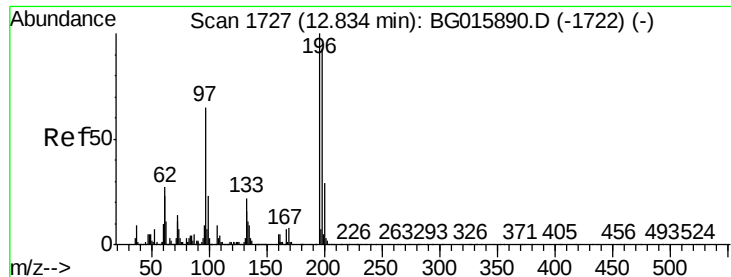
Tgt Ion:330 Resp: 738076  
 Ion Ratio Lower Upper  
 330 100  
 332 96.6 75.4 113.0  
 141 34.9 33.0 49.6



#42  
 2,4,6-Trichlorophenol  
 Concen: 52.89 ng  
 RT: 12.76 min Scan# 1715  
 Delta R.T. 0.01 min  
 Lab File: BG015957.D  
 Acq: 27 Jan 2015 22:34

Tgt Ion:196 Resp: 295077  
 Ion Ratio Lower Upper  
 196 100  
 198 85.7 74.1 111.1  
 200 29.5 24.6 37.0

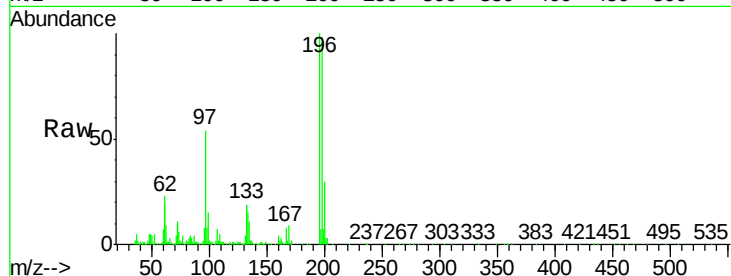




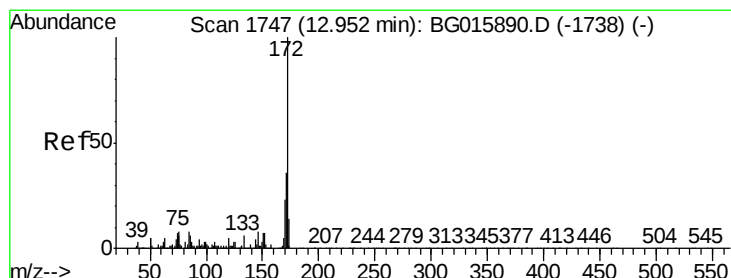
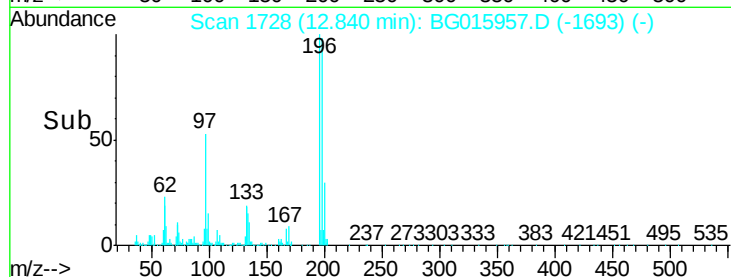
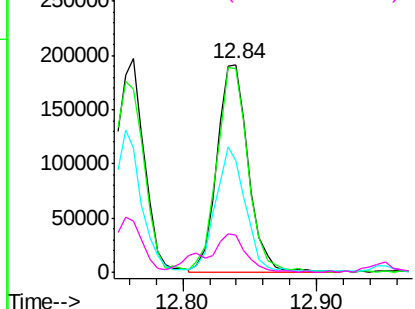
#43  
 2,4,5-Trichlorophenol  
 Concen: 50.24 ng  
 RT: 12.84 min Scan# 1728  
 Delta R.T. 0.01 min  
 Lab File: BG015957.D  
 Acq: 27 Jan 2015 22:34

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DRILLCUTTINGSMSD

Tgt Ion:196 Resp: 316812  
 Ion Ratio Lower Upper  
 196 100  
 198 97.8 74.7 112.1  
 97 53.7 52.5 78.7  
 132 17.9 12.8 19.2

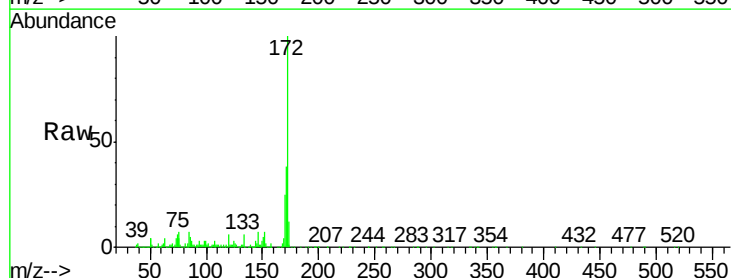


Abundance Ion 196.00 (195.70 to 196.70): E  
 Ion 198.00 (197.70 to 198.70): E  
 Ion 97.00 (96.70 to 97.70): BG  
 Ion 132.00 (131.70 to 132.70): E

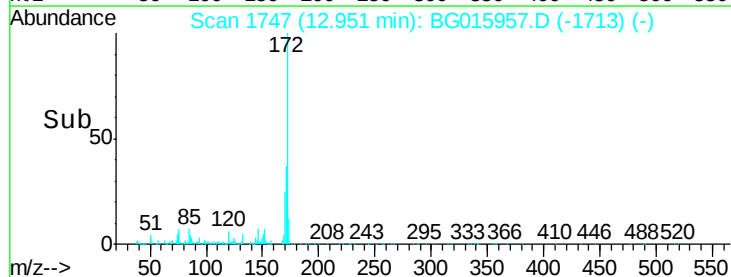
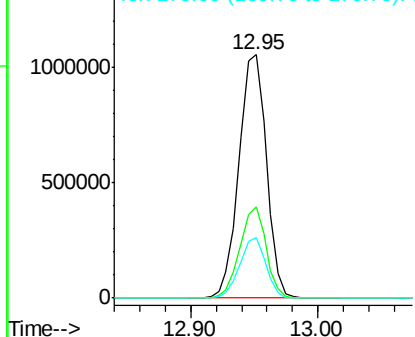


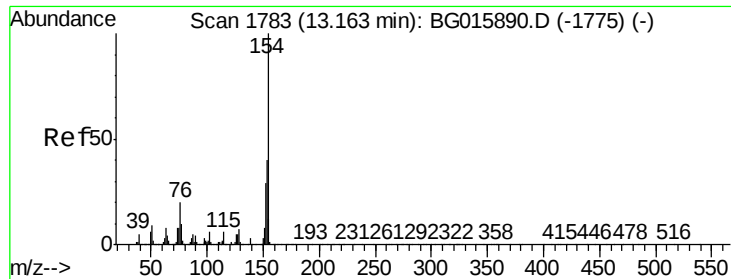
#44  
 2-Fluorobiphenyl  
 Concen: 99.28 ng  
 RT: 12.95 min Scan# 1747  
 Delta R.T. -0.00 min  
 Lab File: BG015957.D  
 Acq: 27 Jan 2015 22:34

Tgt Ion:172 Resp: 1580272  
 Ion Ratio Lower Upper  
 172 100  
 171 37.6 29.2 43.8  
 170 24.7 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

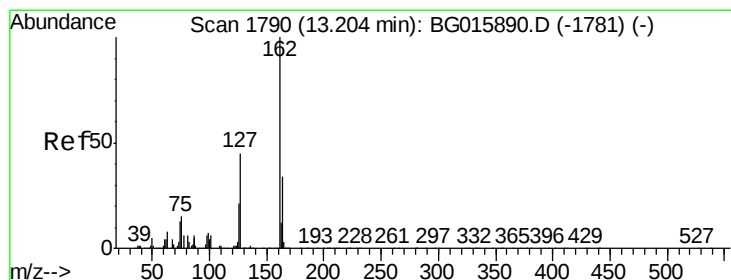
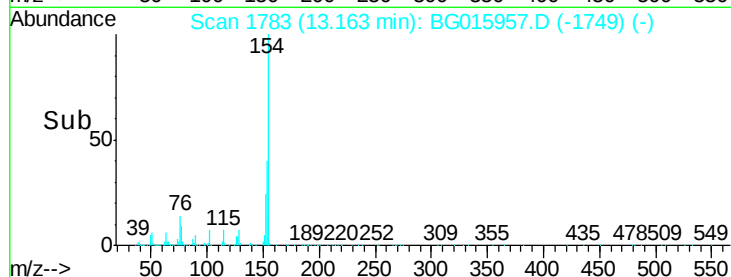
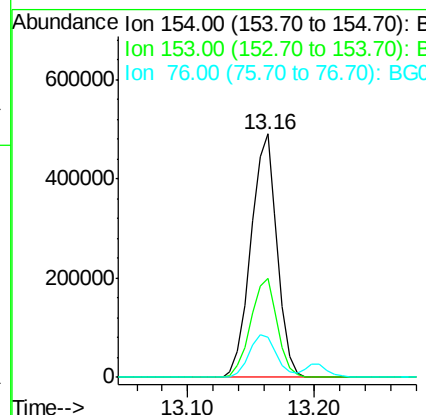
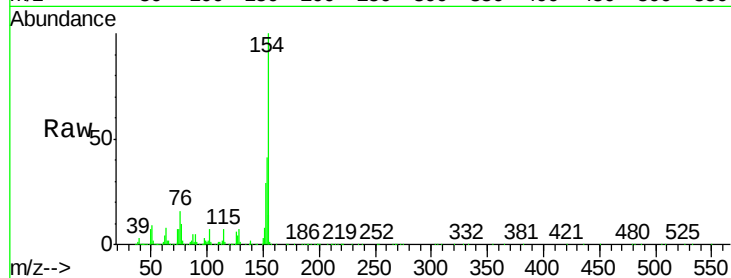




#45  
 1,1'-Biphenyl  
 Concen: 44.52 ng  
 RT: 13.16 min Scan# 1783  
 Delta R.T. -0.00 min  
 Lab File: BG015957.D  
 Acq: 27 Jan 2015 22:34

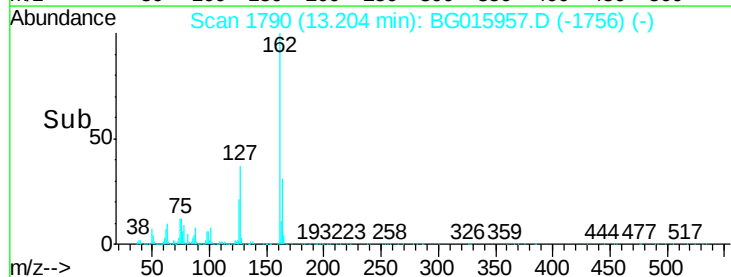
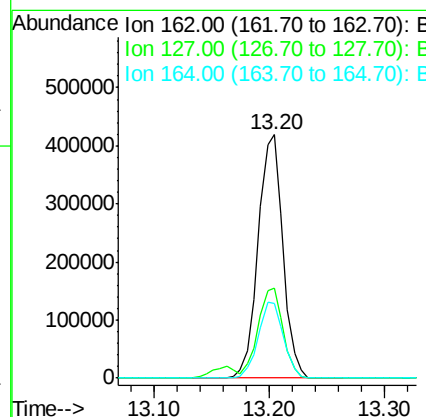
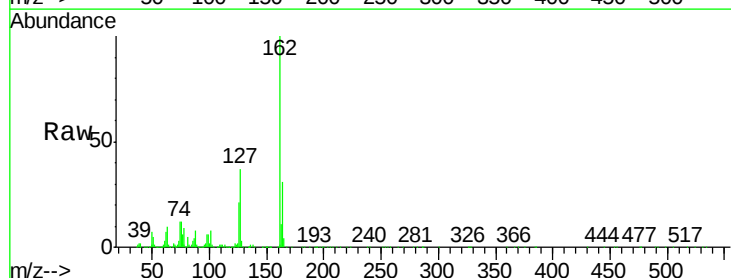
Instrument :  
 BNA\_G  
 ClientSampleId :  
 DRILLCUTTINGSMSD

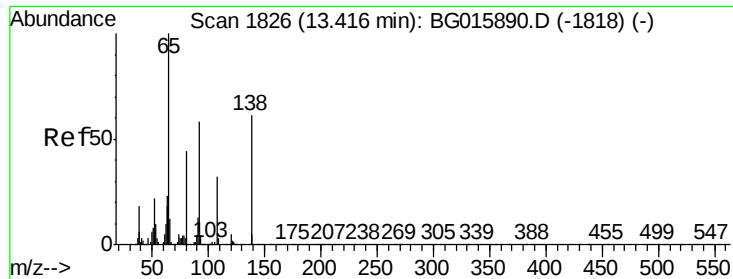
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 40.8  | 20.4  | 60.4  |
| 76      | 16.2  | 0.2   | 40.2  |



#46  
 2-Chloronaphthalene  
 Concen: 47.07 ng  
 RT: 13.20 min Scan# 1790  
 Delta R.T. -0.00 min  
 Lab File: BG015957.D  
 Acq: 27 Jan 2015 22:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 127     | 37.0  | 37.1  | 55.7# |
| 164     | 30.9  | 27.0  | 40.4  |

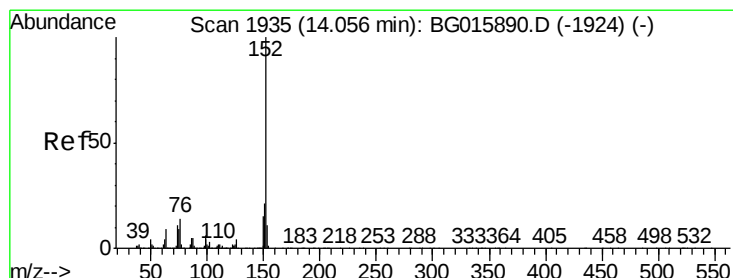
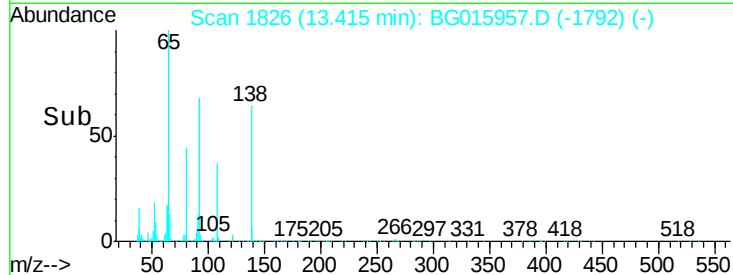
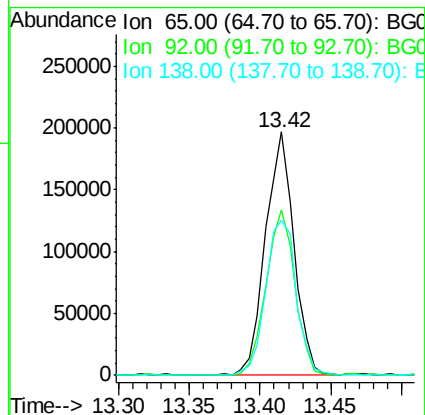
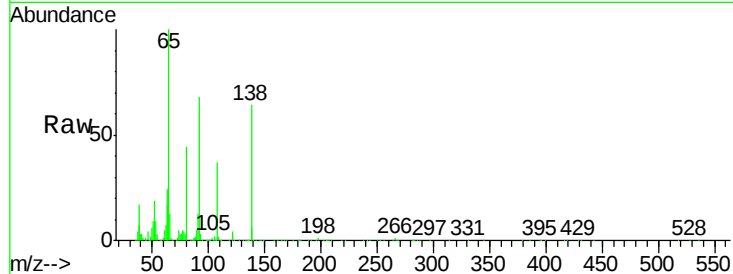




#47  
2-Nitroaniline  
Concen: 41.23 ng  
RT: 13.42 min Scan# 1826  
Delta R.T. -0.00 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

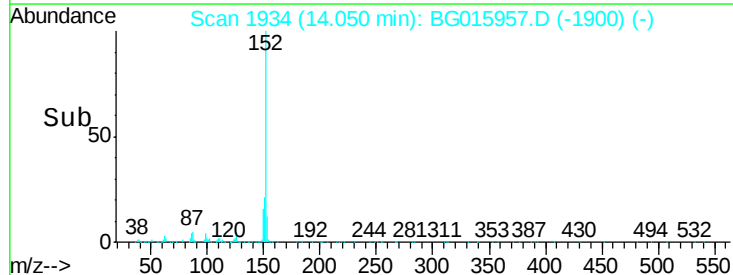
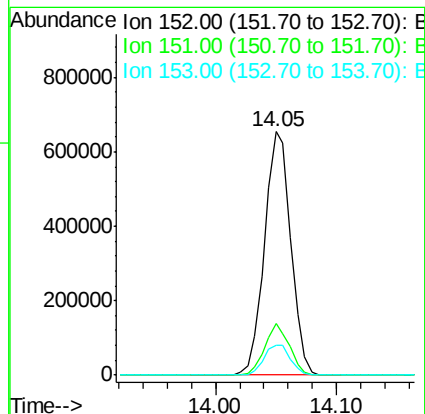
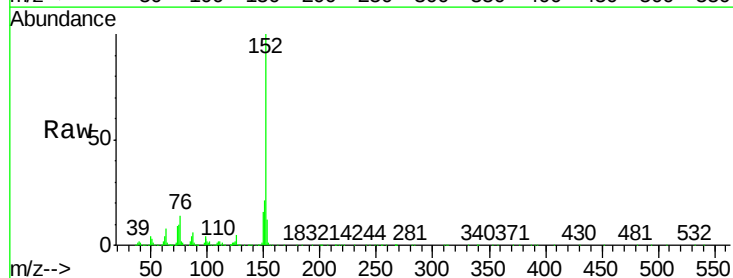
Instrument :  
BNA\_G  
ClientSampleId :  
DRILLCUTTINGSMSD

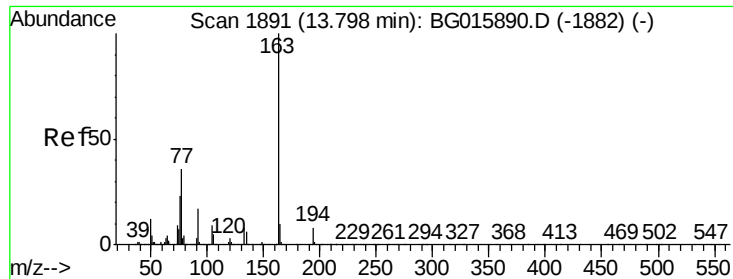
Tgt Ion: 65 Resp: 280006  
Ion Ratio Lower Upper  
65 100  
92 67.9 46.6 70.0  
138 64.0 49.0 73.6



#48  
Acenaphthylene  
Concen: 48.54 ng  
RT: 14.05 min Scan# 1934  
Delta R.T. -0.00 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

Tgt Ion: 152 Resp: 981132  
Ion Ratio Lower Upper  
152 100  
151 21.2 16.6 24.8  
153 12.3 8.9 13.3





#49

Dimethylphthalate

Concen: 47.51 ng

RT: 13.80 min Scan# 1891

Delta R.T. -0.00 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

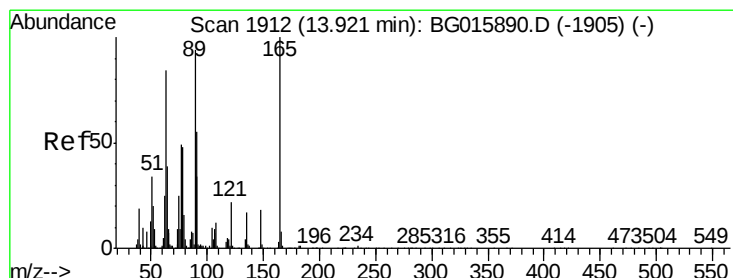
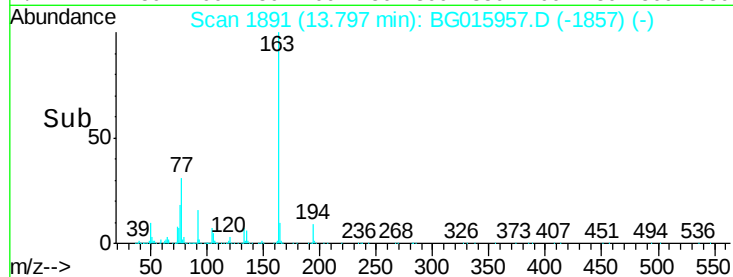
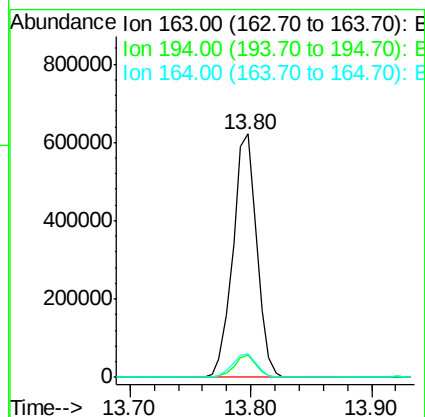
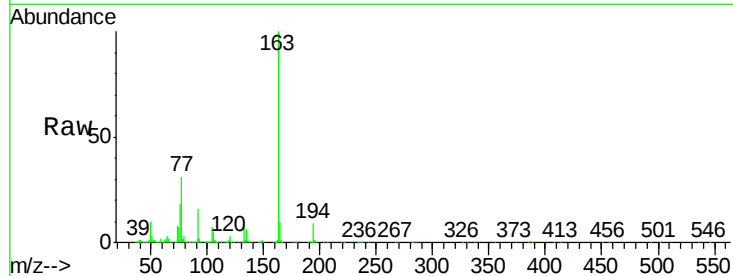
Instrument :

BNA\_G

ClientSampleId :

DRILLCUTTINGSMSD

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 163   | Resp: | 853783 |
| Ion      | Ratio | Lower | Upper  |
| 163      | 100   |       |        |
| 194      | 9.1   | 6.2   | 9.4    |
| 164      | 9.8   | 8.0   | 12.0   |



#50

2,6-Dinitrotoluene

Concen: 48.54 ng

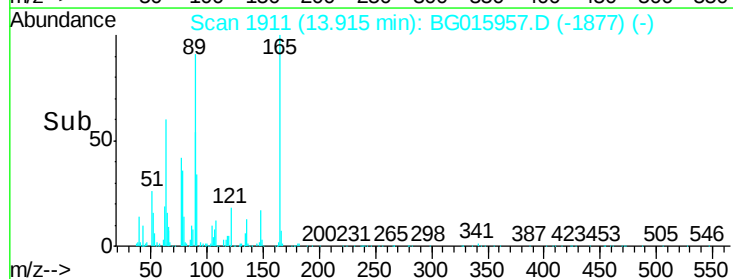
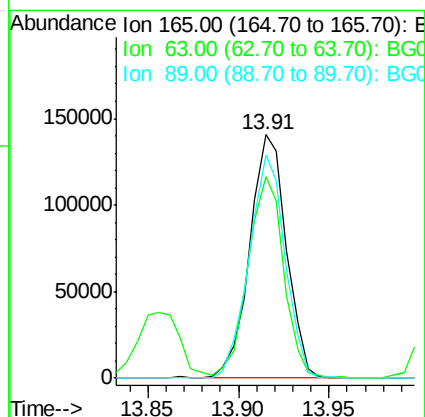
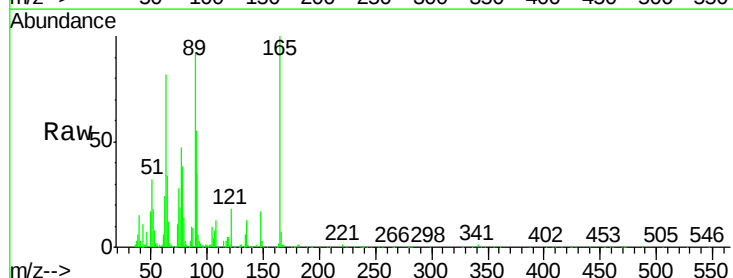
RT: 13.91 min Scan# 1911

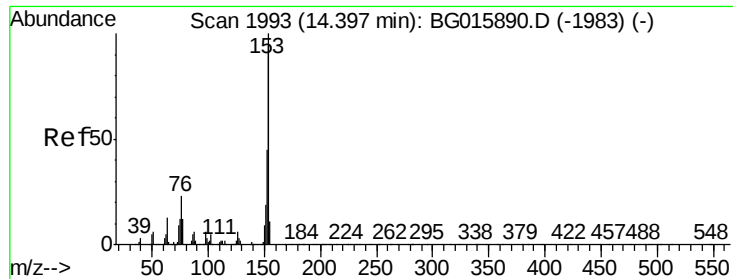
Delta R.T. -0.00 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 165   | Resp: | 196911 |
| Ion      | Ratio | Lower | Upper  |
| 165      | 100   |       |        |
| 63       | 82.5  | 68.3  | 102.5  |
| 89       | 91.9  | 75.4  | 113.2  |





#51

Acenaphthene

Concen: 45.28 ng

RT: 14.40 min Scan# 1993

Delta R.T. -0.00 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

Instrument :

BNA\_G

ClientSampleId :

DRILLCUTTINGSMSD

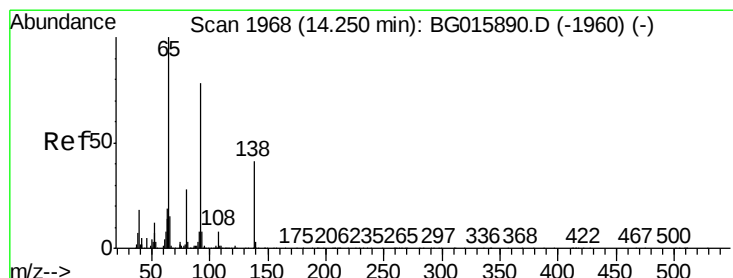
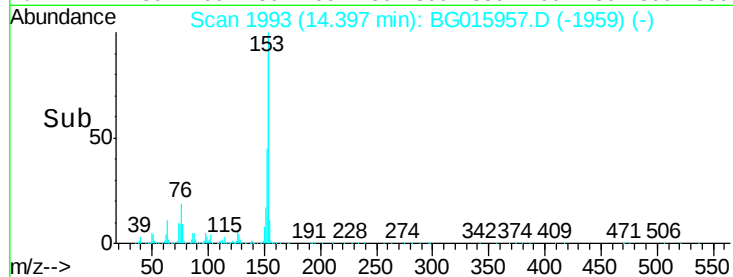
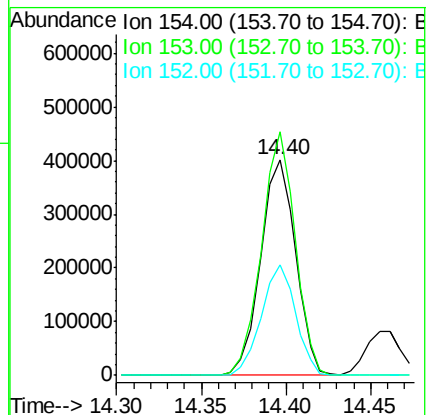
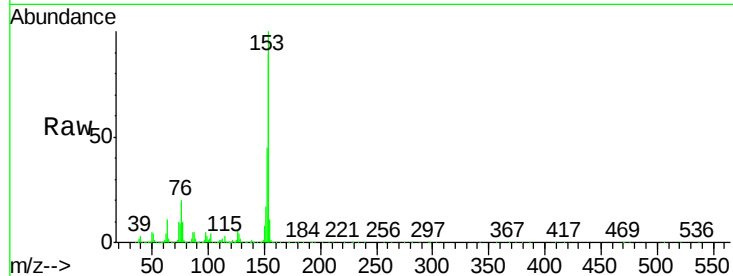
Tgt Ion:154 Resp: 575030

Ion Ratio Lower Upper

154 100

153 113.0 85.1 127.7

152 51.2 38.3 57.5



#52

3-Nitroaniline

Concen: 20.99 ng

RT: 14.25 min Scan# 1968

Delta R.T. -0.00 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

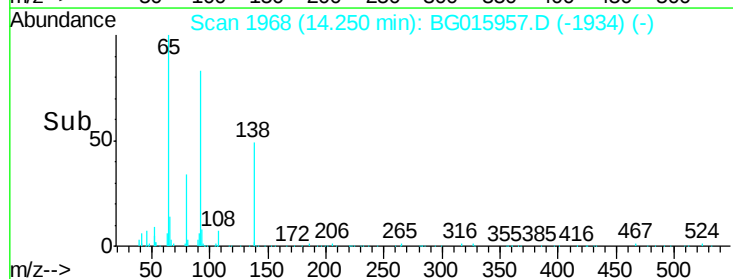
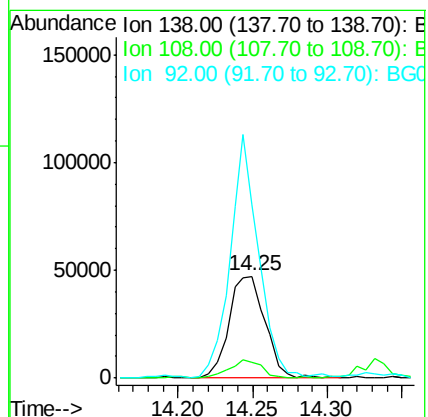
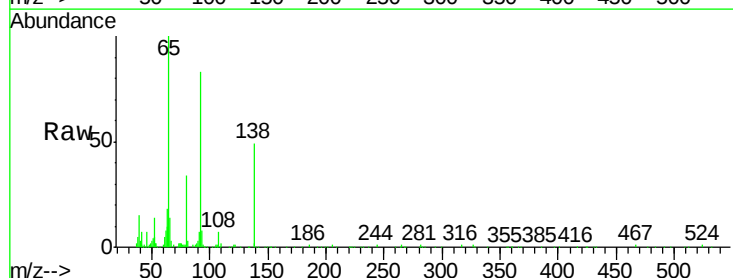
Tgt Ion:138 Resp: 80103

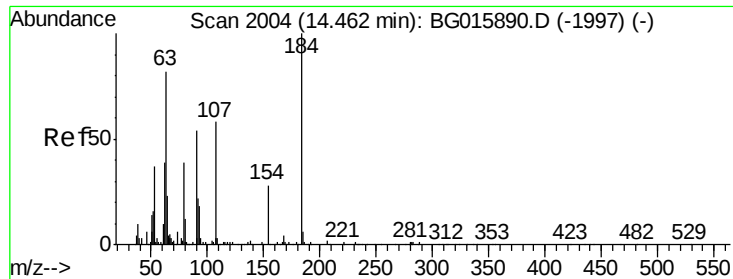
Ion Ratio Lower Upper

138 100

108 15.7 15.9 23.9#

92 170.1 154.0 231.0

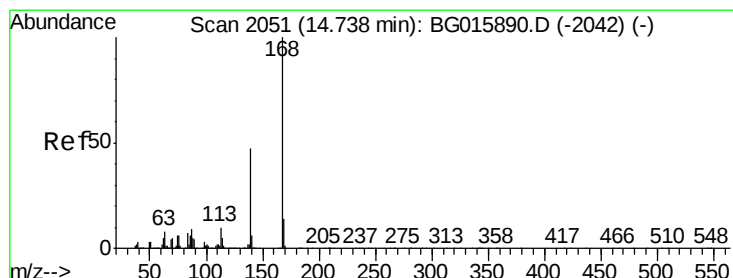
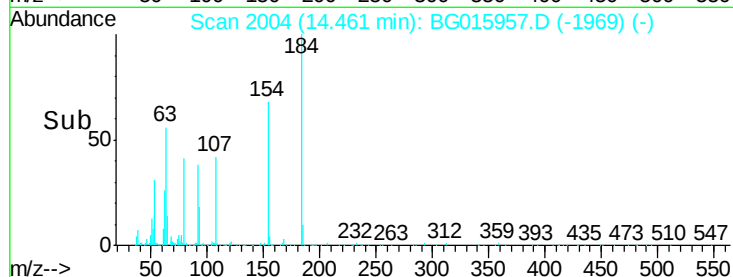
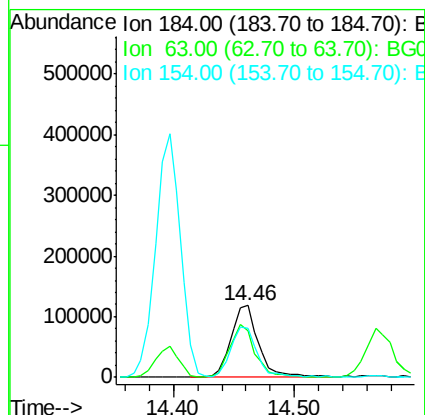
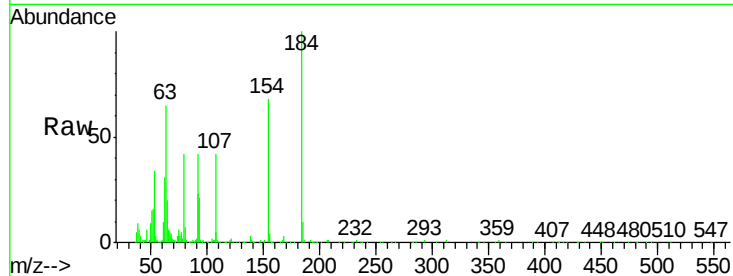




#53  
2,4-Dinitrophenol  
Concen: 66.26 ng  
RT: 14.46 min Scan# 2004  
Delta R.T. 0.01 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

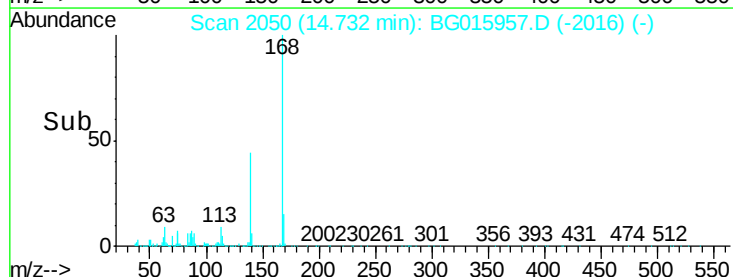
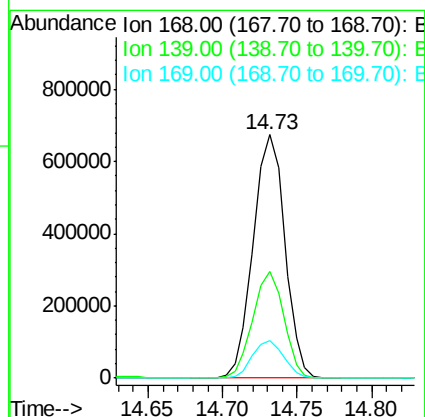
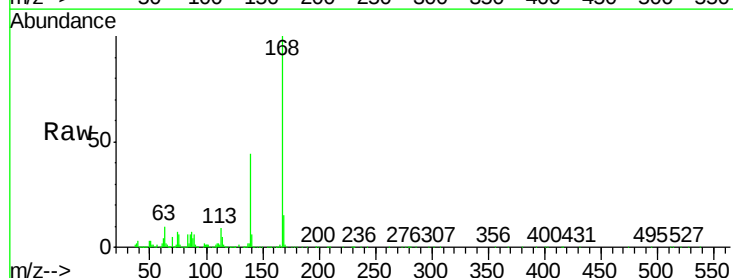
Instrument :  
BNA\_G  
ClientSampleId :  
DRILLCUTTINGSMSD

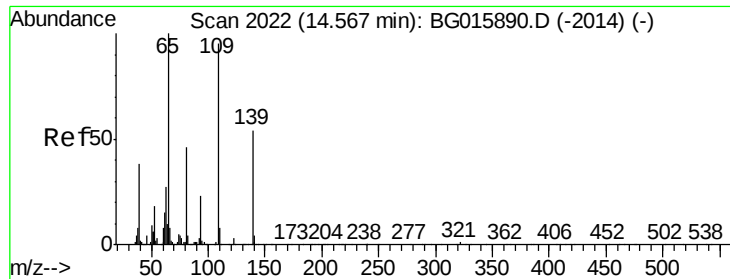
Tgt Ion:184 Resp: 189782  
Ion Ratio Lower Upper  
184 100  
63 65.3 68.6 103.0#  
154 68.3 54.9 82.3



#54  
Dibenzofuran  
Concen: 47.11 ng  
RT: 14.73 min Scan# 2050  
Delta R.T. -0.00 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

Tgt Ion:168 Resp: 987180  
Ion Ratio Lower Upper  
168 100  
139 43.6 37.8 56.8  
169 15.3 11.5 17.3

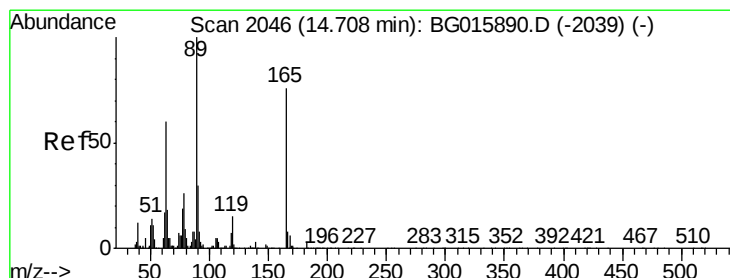
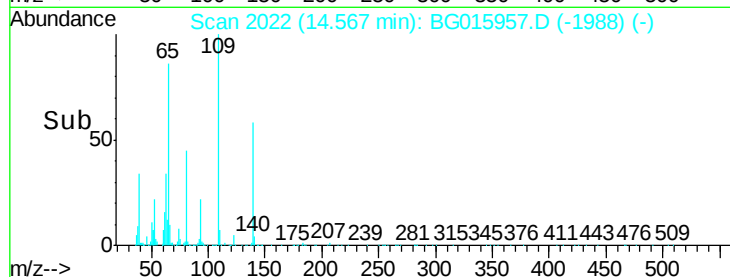
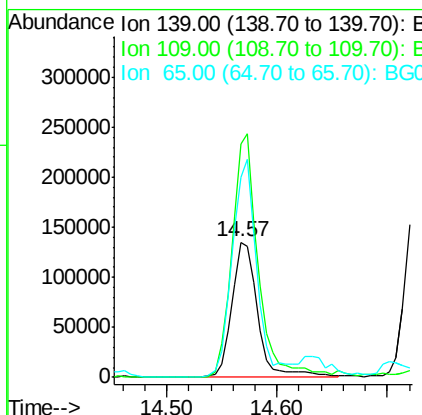
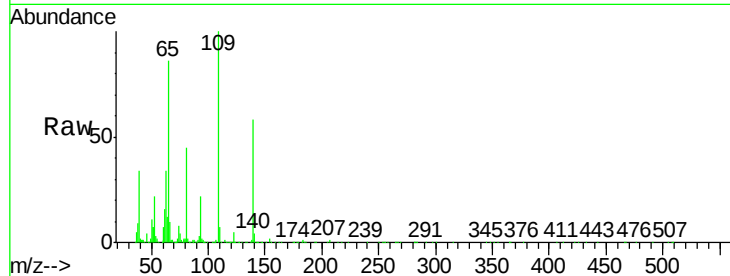




#55  
4-Nitrophenol  
Concen: 84.80 ng  
RT: 14.57 min Scan# 2022  
Delta R.T. -0.00 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

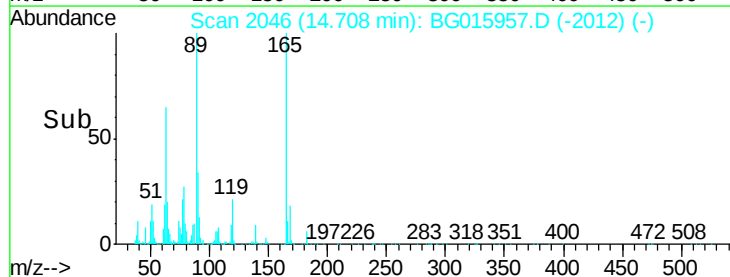
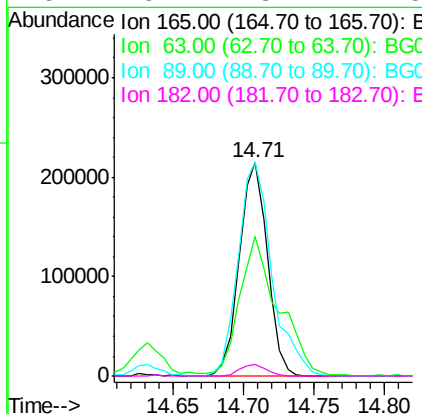
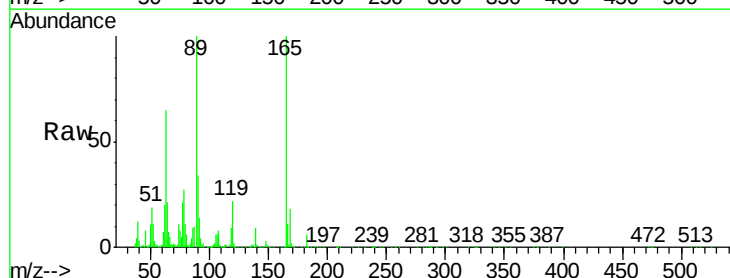
Instrument :  
BNA\_G  
ClientSampleId :  
DRILLCUTTINGSMSD

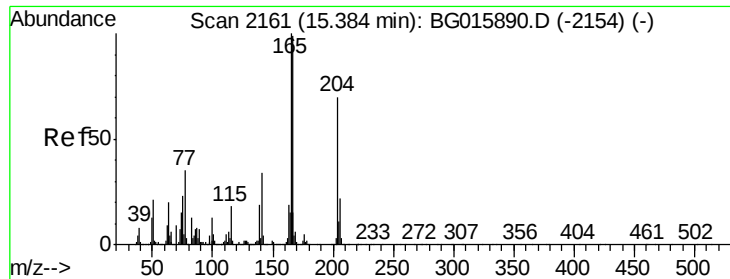
Tgt Ion:139 Resp: 222690  
Ion Ratio Lower Upper  
139 100  
109 172.6 156.3 196.3  
65 148.4 166.3 206.3#



#56  
2,4-Dinitrotoluene  
Concen: 50.13 ng  
RT: 14.71 min Scan# 2046  
Delta R.T. -0.00 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

Tgt Ion:165 Resp: 297552  
Ion Ratio Lower Upper  
165 100  
63 65.2 62.6 93.8  
89 100.0 104.6 157.0#  
182 5.7 3.2 4.8#





#57

Fluorene

Concen: 48.17 ng

RT: 15.38 min Scan# 2161

Delta R.T. -0.00 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

Instrument :

BNA\_G

ClientSampleId :

DRILLCUTTINGSMSD

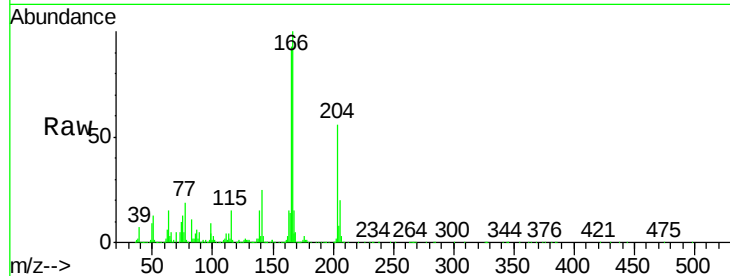
Tgt Ion:166 Resp: 910509

Ion Ratio Lower Upper

166 100

165 93.4 80.6 120.8

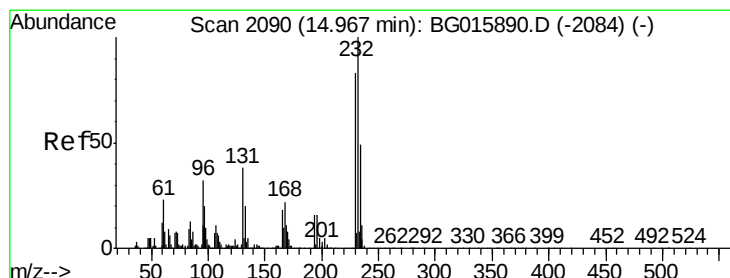
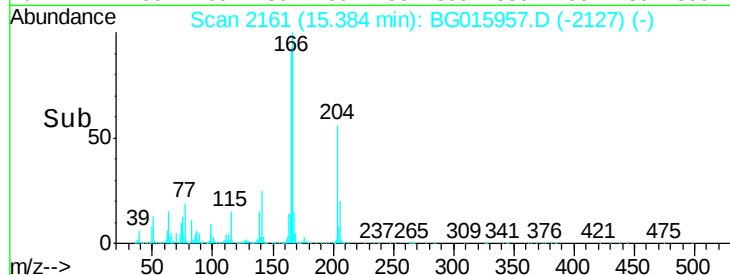
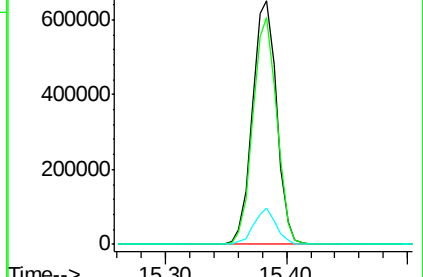
167 15.0 12.5 18.7



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#58

2,3,4,6-Tetrachlorophenol

Concen: 50.71 ng

RT: 14.97 min Scan# 2090

Delta R.T. -0.00 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

Tgt Ion:232 Resp: 354117

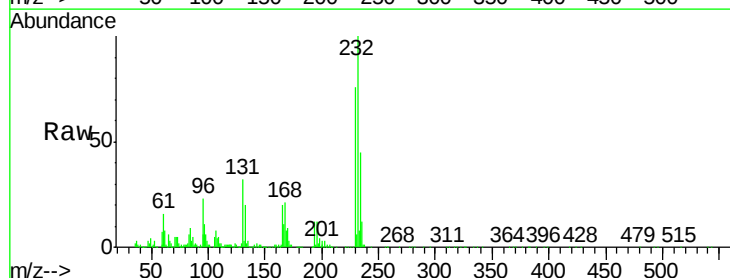
Ion Ratio Lower Upper

232 100

131 32.3 29.1 43.7

130 2.5 1.7 2.5#

166 21.4 16.5 24.7

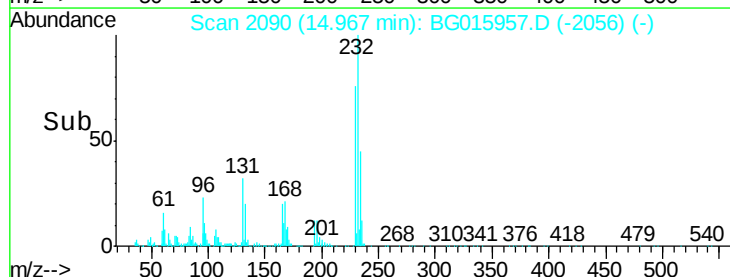
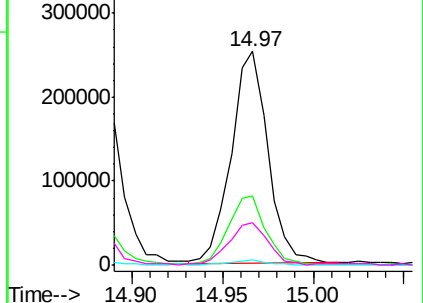


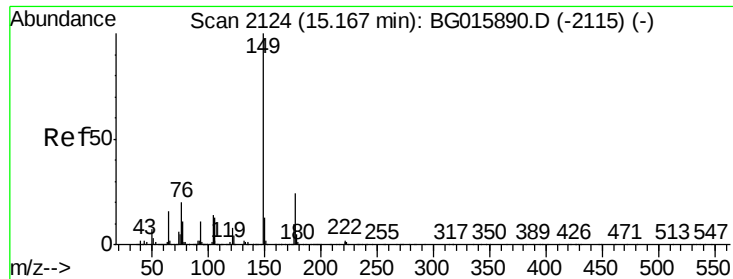
Abundance Ion 232.00 (231.70 to 232.70): E

Ion 131.00 (130.70 to 131.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 166.00 (165.70 to 166.70): E

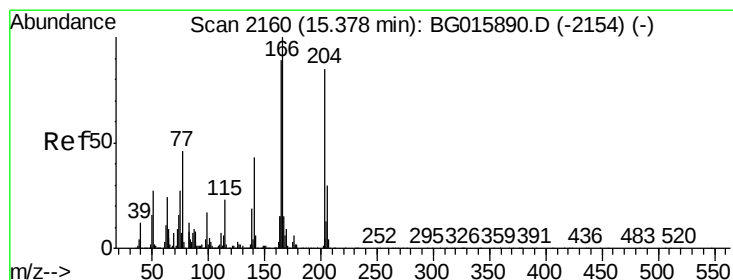
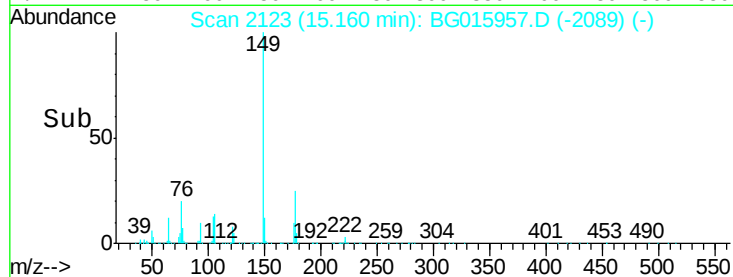
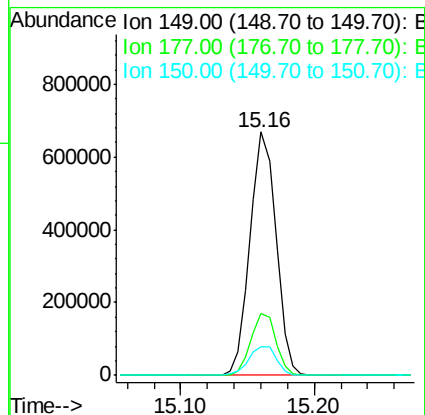
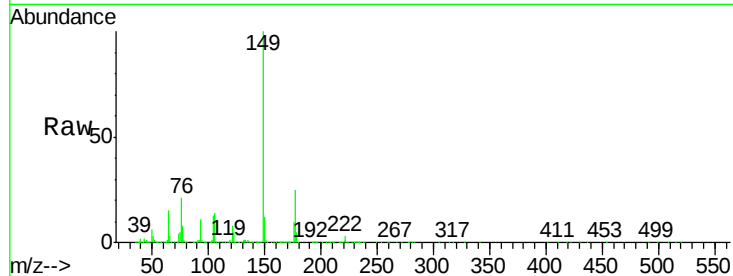




#59  
Diethylphthalate  
Concen: 48.88 ng  
RT: 15.16 min Scan# 2123  
Delta R.T. -0.00 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

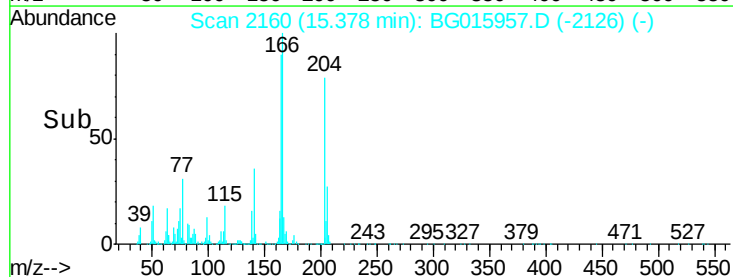
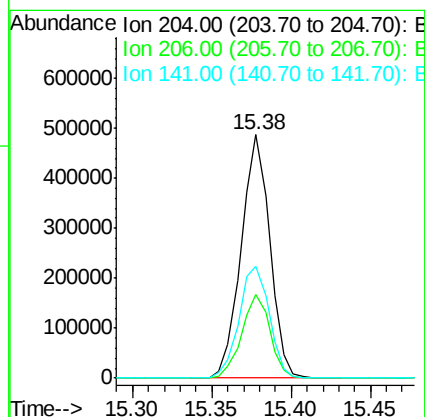
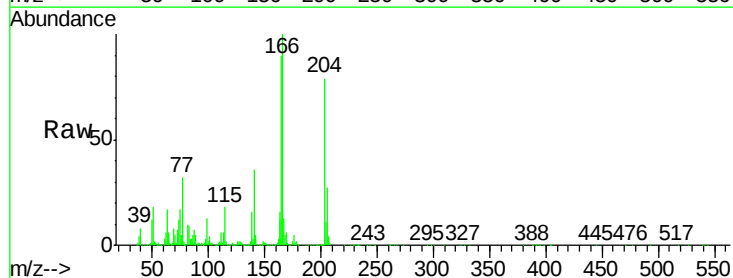
Instrument :  
BNA\_G  
ClientSampleId :  
DRILLCUTTINGSMSD

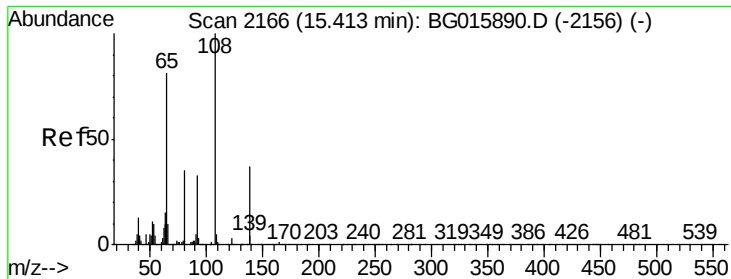
Tgt Ion:149 Resp: 896819  
Ion Ratio Lower Upper  
149 100  
177 25.5 19.4 29.0  
150 11.9 10.2 15.4



#60  
4-Chlorophenyl-phenylether  
Concen: 48.37 ng  
RT: 15.38 min Scan# 2160  
Delta R.T. -0.00 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

Tgt Ion:204 Resp: 607999  
Ion Ratio Lower Upper  
204 100  
206 34.1 28.4 42.6  
141 46.1 41.0 61.6

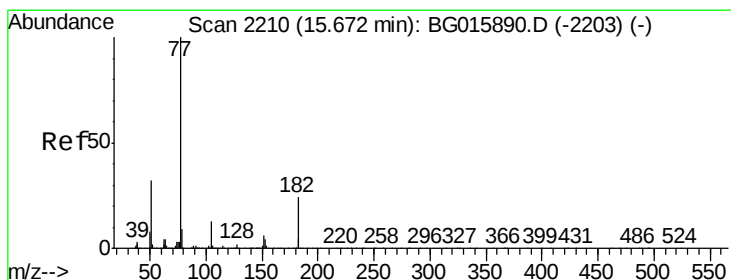
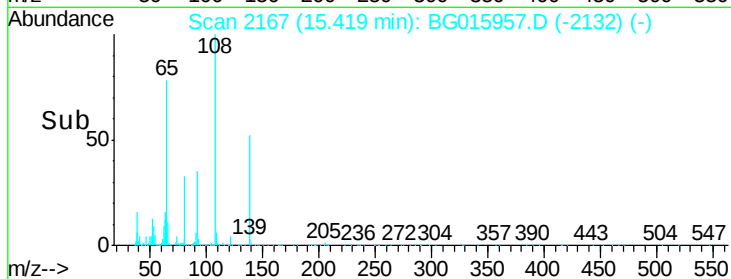
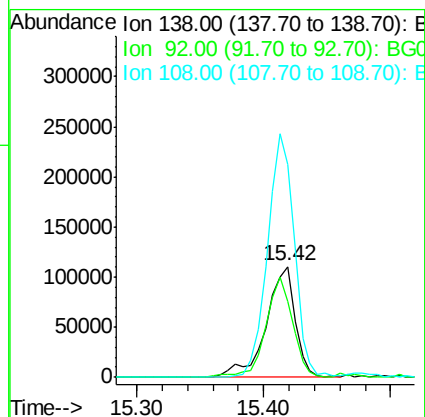
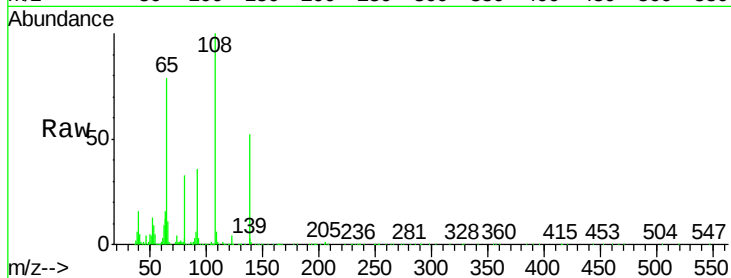




#61  
4-Nitroaniline  
Concen: 43.85 ng  
RT: 15.42 min Scan# 2167  
Delta R.T. 0.01 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

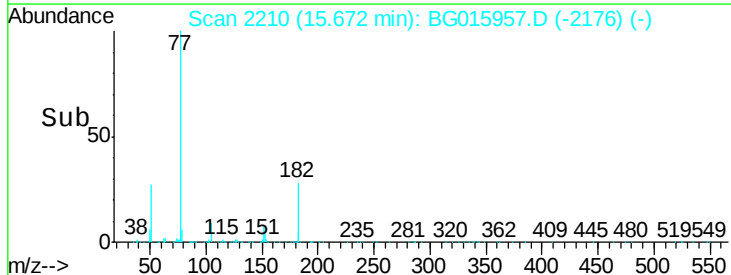
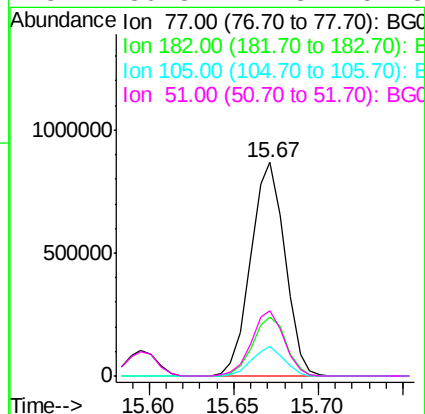
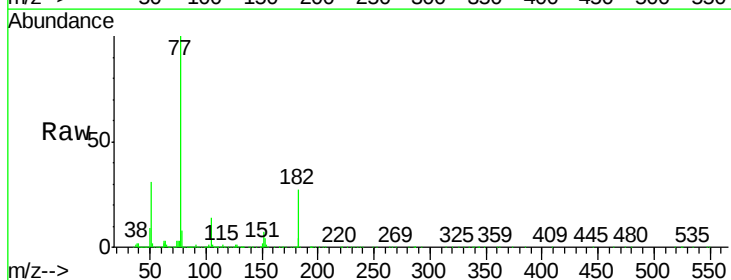
Instrument :  
BNA\_G  
ClientSampleId :  
DRILLCUTTINGSMSD

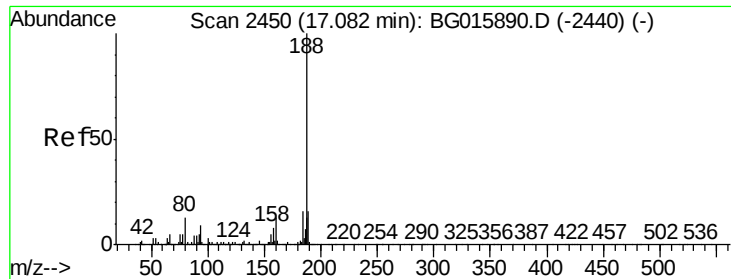
Tgt Ion:138 Resp: 177522  
Ion Ratio Lower Upper  
138 100  
92 68.9 70.7 110.7#  
108 192.7 251.1 291.1#



#62  
Azobenzene  
Concen: 41.01 ng  
RT: 15.67 min Scan# 2210  
Delta R.T. -0.00 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

Tgt Ion: 77 Resp: 1218420  
Ion Ratio Lower Upper  
77 100  
182 27.4 3.6 43.6  
105 13.9 0.0 32.9  
51 30.8 11.8 51.8





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.08 min Scan# 2450

Delta R.T. 0.01 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

Instrument :

BNA\_G

ClientSampleId :

DRILLCUTTINGSMSD

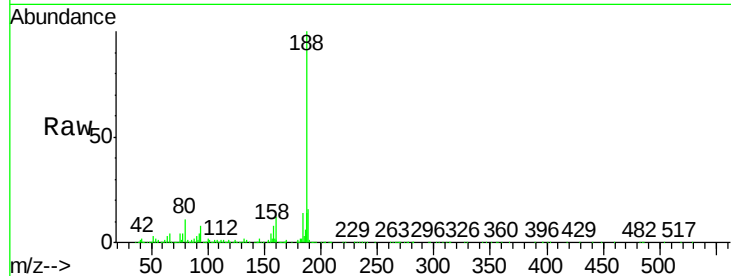
Tgt Ion:188 Resp: 749449

Ion Ratio Lower Upper

188 100

94 7.5 7.8 11.8#

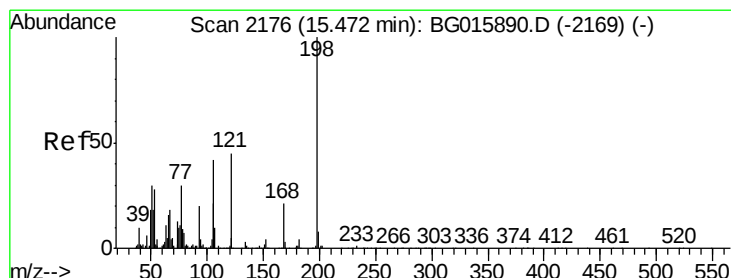
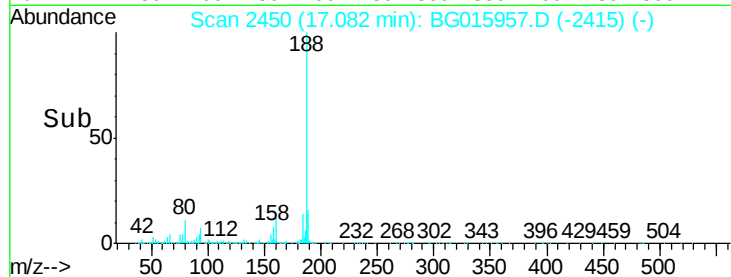
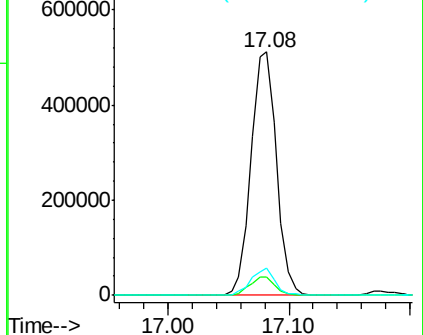
80 11.2 10.6 16.0



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



#64

4,6-Dinitro-2-methylphenol

Concen: 34.89 ng

RT: 15.47 min Scan# 2176

Delta R.T. -0.00 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

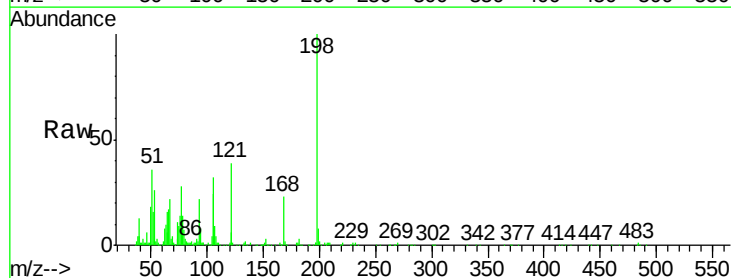
Tgt Ion:198 Resp: 188677

Ion Ratio Lower Upper

198 100

51 35.8 12.3 52.3

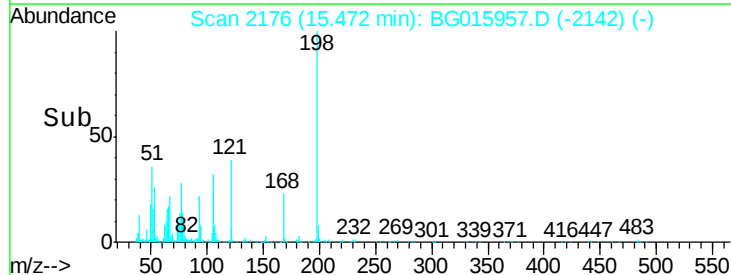
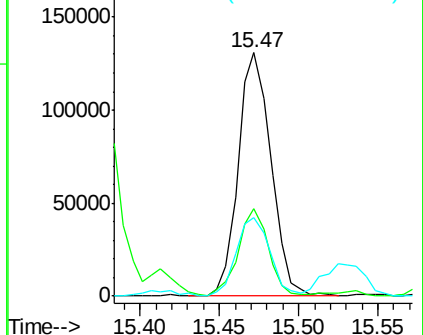
105 32.1 22.3 62.3

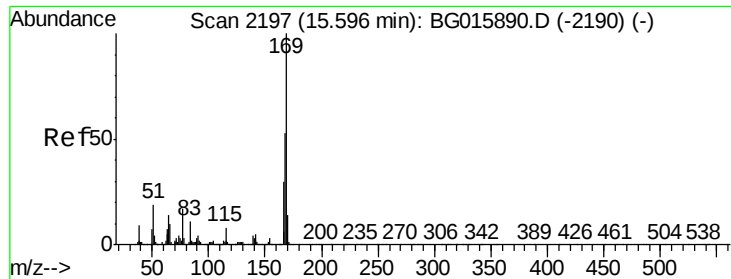


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BGC

Ion 105.00 (104.70 to 105.70): E





#65

n-Nitrosodiphenylamine

Concen: 40.03 ng

RT: 15.60 min Scan# 2197

Delta R.T. -0.00 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

Instrument :

BNA\_G

ClientSampleId :

DRILLCUTTINGSMSD

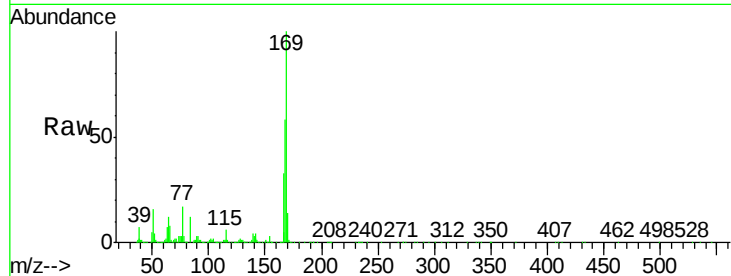
Tgt Ion:169 Resp: 855859

Ion Ratio Lower Upper

169 100

168 58.2 42.3 63.5

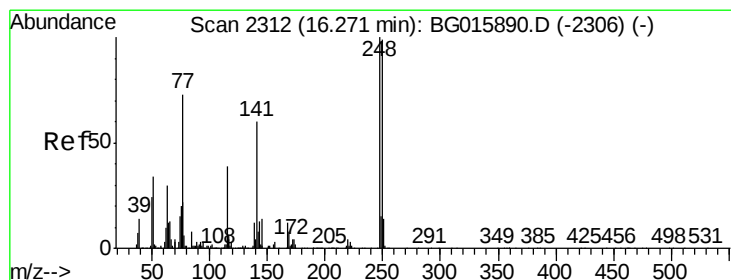
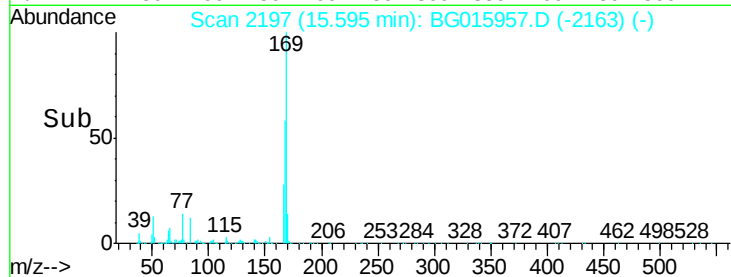
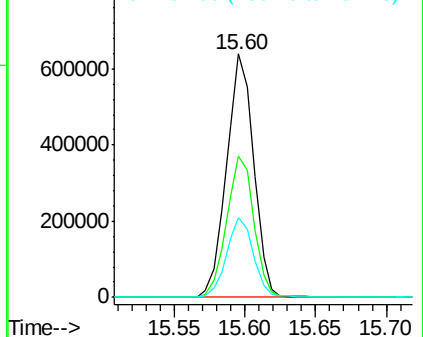
167 32.5 24.2 36.2



Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E



#66

4-Bromophenyl-phenylether

Concen: 43.70 ng

RT: 16.27 min Scan# 2312

Delta R.T. -0.00 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

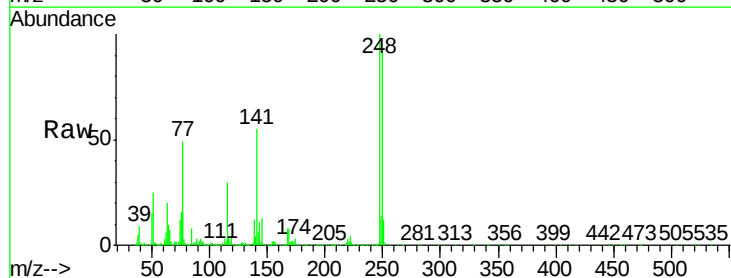
Tgt Ion:248 Resp: 478286

Ion Ratio Lower Upper

248 100

250 91.7 79.3 118.9

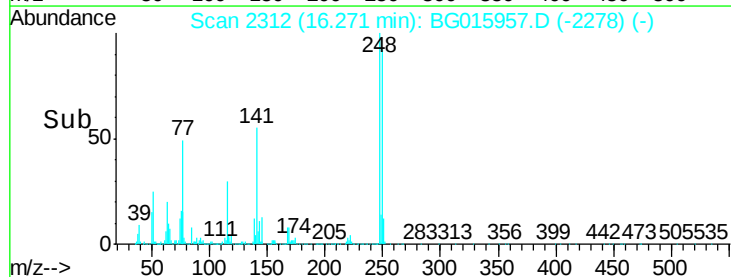
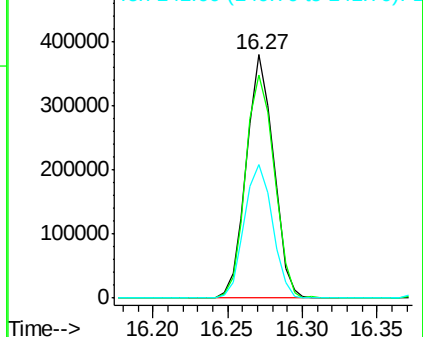
141 55.1 47.8 71.6

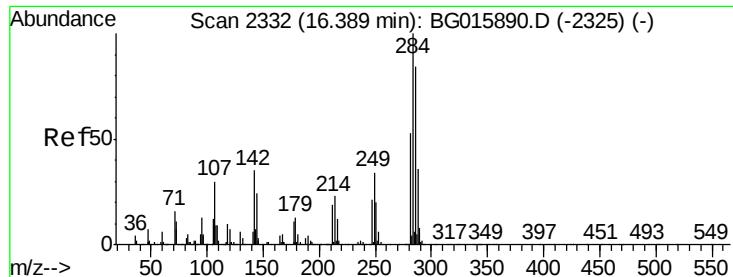


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

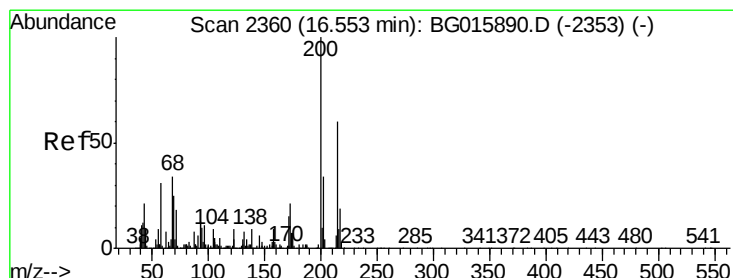
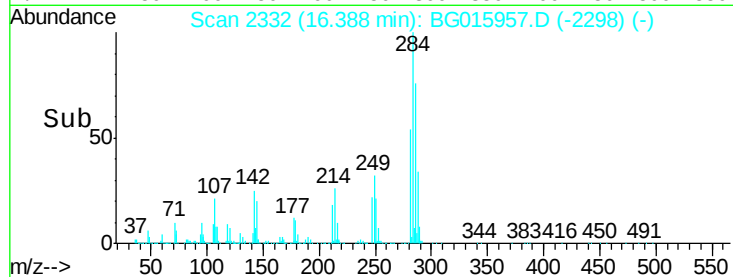
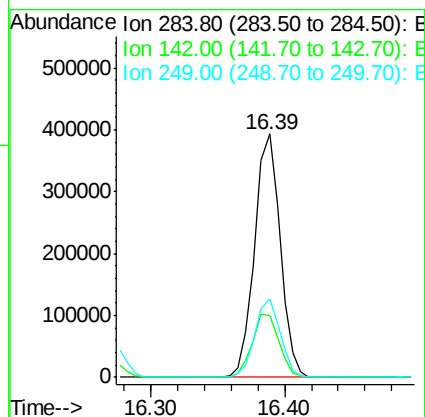
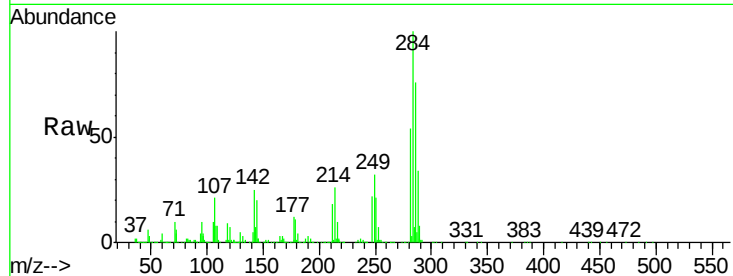




#67  
Hexachlorobenzene  
Concen: 43.80 ng  
RT: 16.39 min Scan# 2332  
Delta R.T. -0.00 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

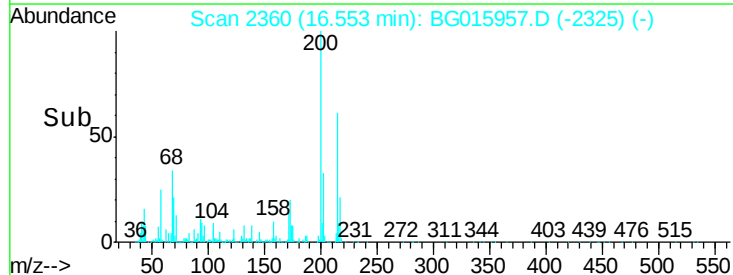
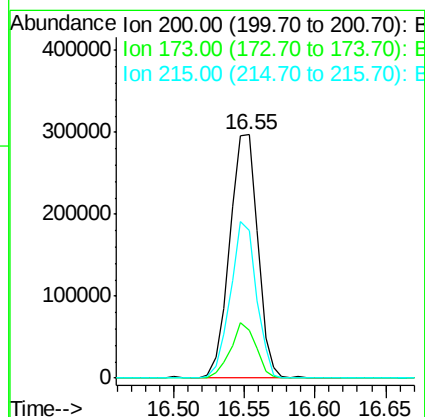
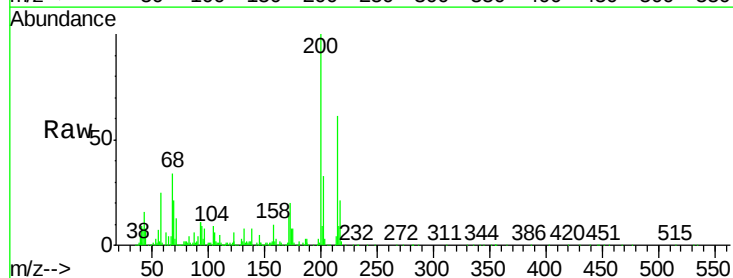
Instrument :  
BNA\_G  
ClientSampleId :  
DRILLCUTTINGSMSD

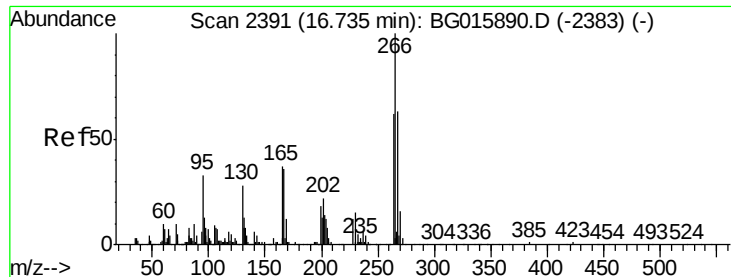
Tgt Ion: 284 Resp: 518205  
Ion Ratio Lower Upper  
284 100  
142 25.2 27.8 41.6#  
249 32.1 29.3 43.9



#68  
Atrazine  
Concen: 39.93 ng  
RT: 16.55 min Scan# 2360  
Delta R.T. 0.01 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

Tgt Ion: 200 Resp: 410906  
Ion Ratio Lower Upper  
200 100  
173 19.7 0.8 40.8  
215 60.9 40.0 80.0

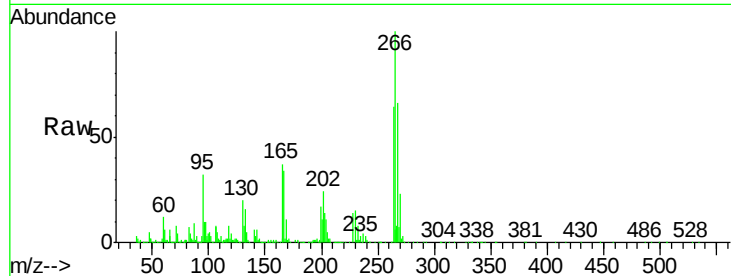




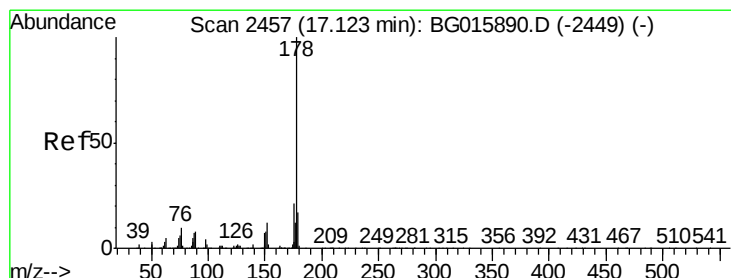
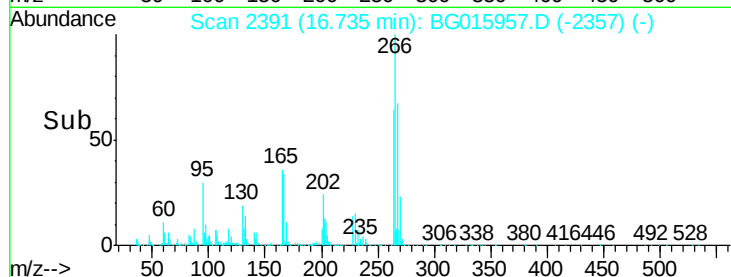
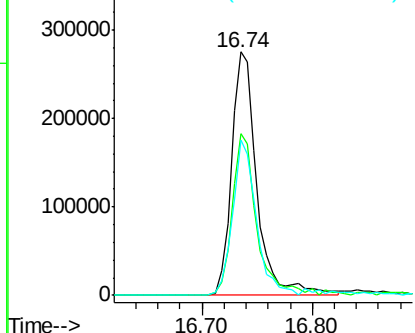
#69  
 Pentachlorophenol  
 Concen: 70.39 ng  
 RT: 16.74 min Scan# 2391  
 Delta R.T. -0.00 min  
 Lab File: BG015957.D  
 Acq: 27 Jan 2015 22:34

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DRILLCUTTINGSMSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 268     | 66.5  | 53.5  | 80.3  |
| 264     | 69.7  | 51.9  | 77.9  |

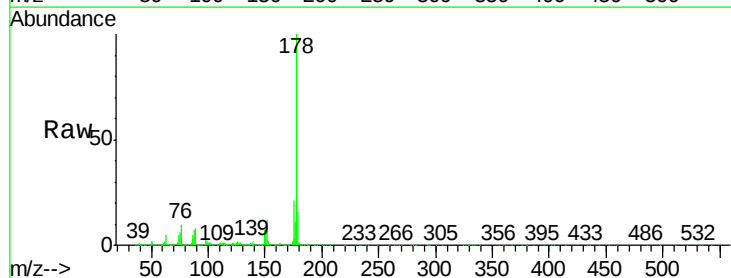


Abundance Ion 265.70 (265.40 to 266.40): E  
 Ion 268.00 (267.70 to 268.70): E  
 Ion 264.00 (263.70 to 264.70): E

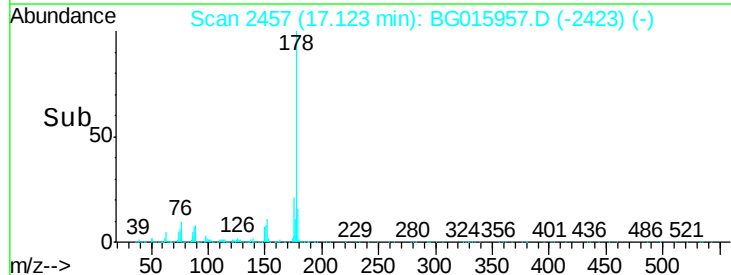
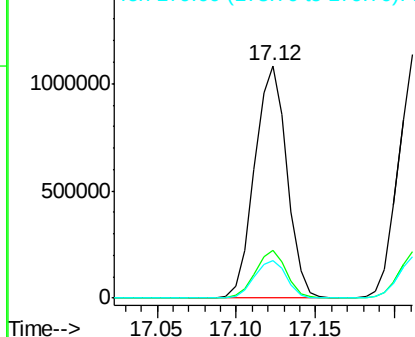


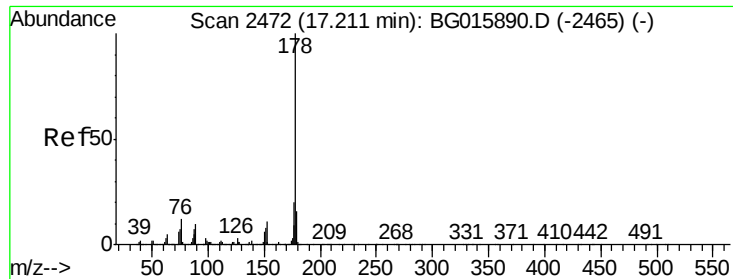
#70  
 Phenanthrene  
 Concen: 40.75 ng  
 RT: 17.12 min Scan# 2457  
 Delta R.T. -0.00 min  
 Lab File: BG015957.D  
 Acq: 27 Jan 2015 22:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 20.8  | 16.9  | 25.3  |
| 179     | 16.2  | 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

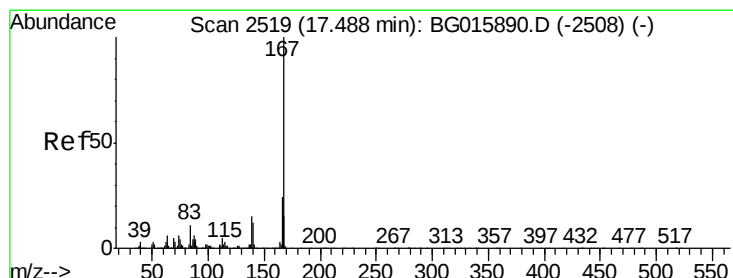
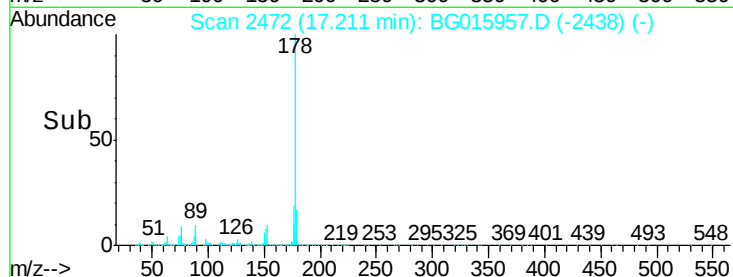
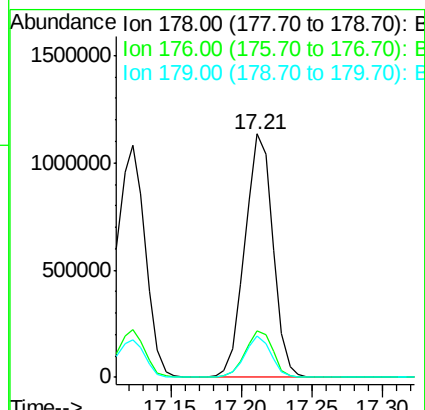
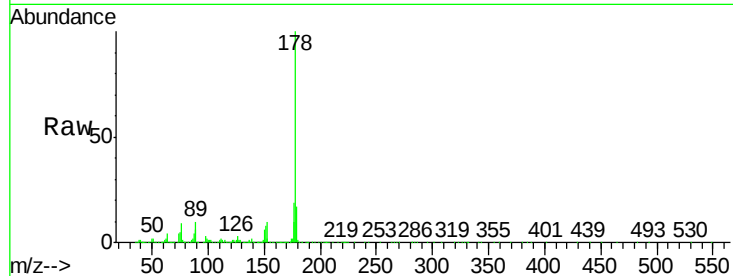




#71  
 Anthracene  
 Concen: 42.80 ng  
 RT: 17.21 min Scan# 2472  
 Delta R.T. -0.00 min  
 Lab File: BG015957.D  
 Acq: 27 Jan 2015 22:34

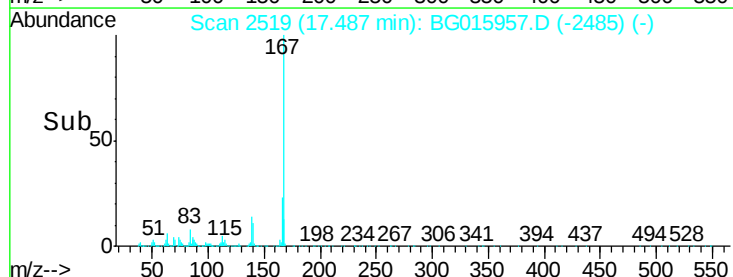
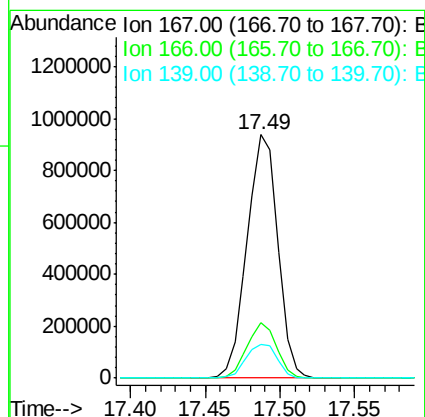
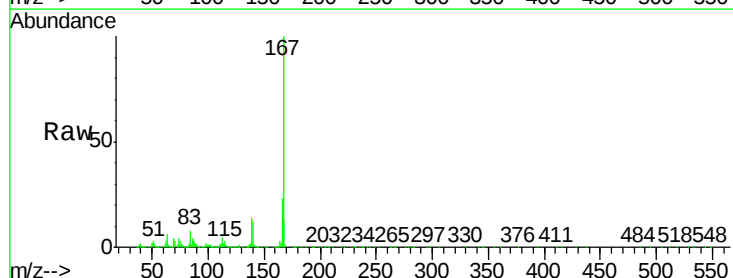
Instrument :  
 BNA\_G  
 ClientSampleId :  
 DRILLCUTTINGSMSD

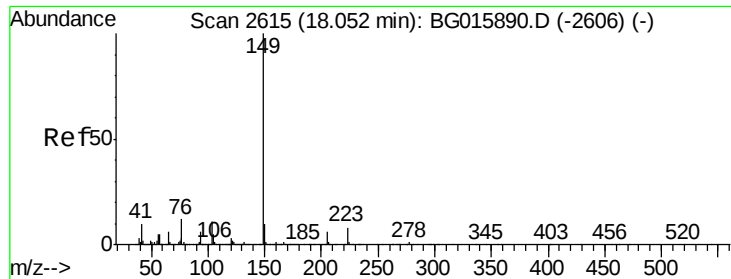
Tgt Ion:178 Resp: 1578983  
 Ion Ratio Lower Upper  
 178 100  
 176 19.2 15.7 23.5  
 179 16.8 12.7 19.1



#72  
 Carbazole  
 Concen: 41.01 ng  
 RT: 17.49 min Scan# 2519  
 Delta R.T. -0.00 min  
 Lab File: BG015957.D  
 Acq: 27 Jan 2015 22:34

Tgt Ion:167 Resp: 1333938  
 Ion Ratio Lower Upper  
 167 100  
 166 22.8 19.4 29.2  
 139 14.1 12.2 18.2

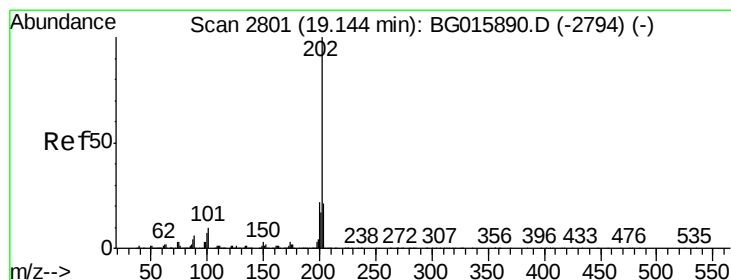
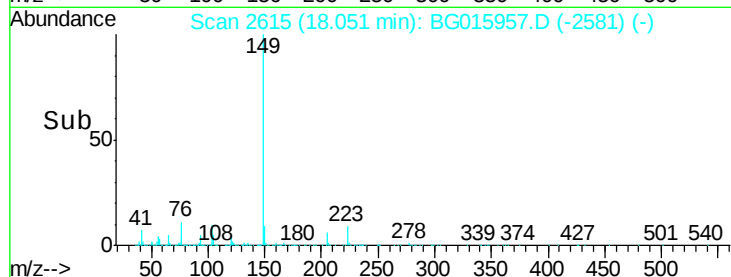
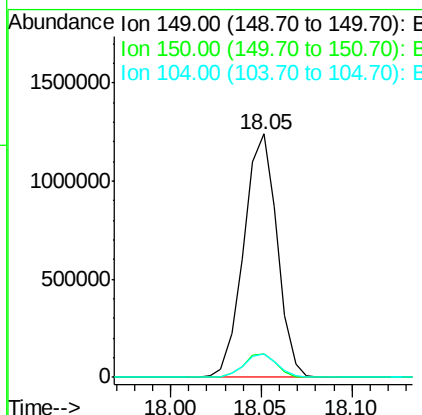
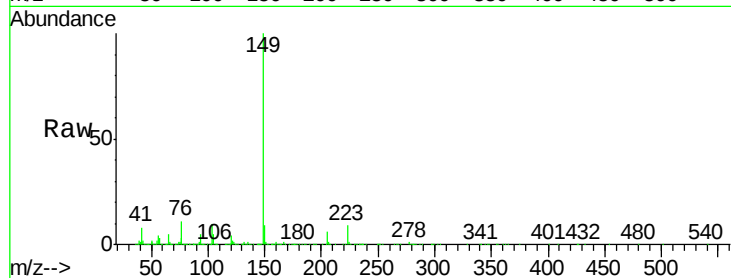




#73  
Di-n-butylphthalate  
Concen: 42.03 ng  
RT: 18.05 min Scan# 2615  
Delta R.T. -0.00 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

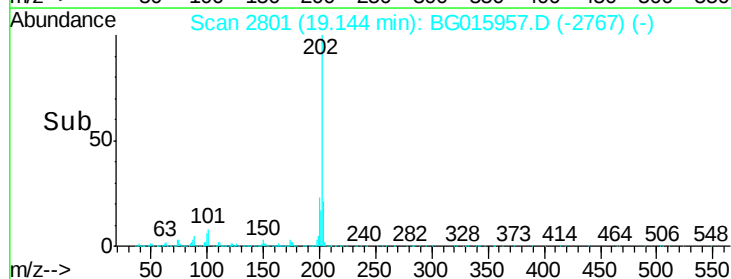
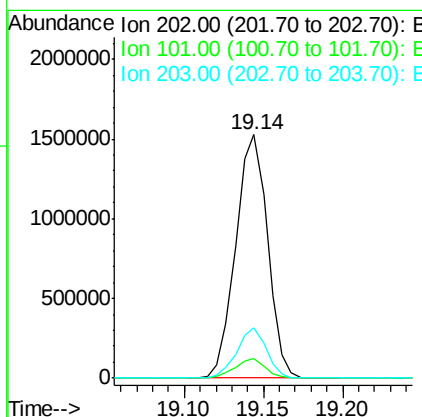
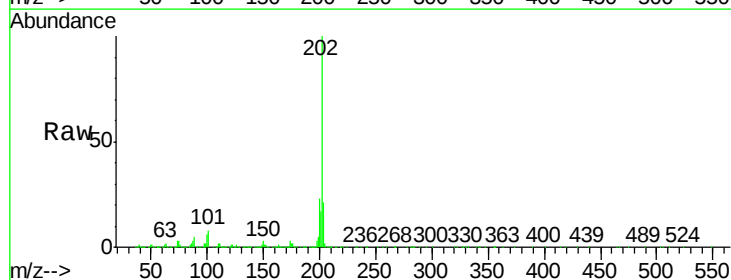
Instrument :  
BNA\_G  
ClientSampleId :  
DRILLCUTTINGSMSD

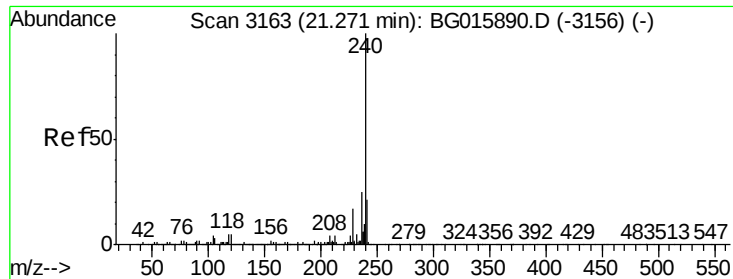
Tgt Ion:149 Resp: 1573355  
Ion Ratio Lower Upper  
149 100  
150 9.5 8.2 12.4  
104 9.6 8.9 13.3



#74  
Fluoranthene  
Concen: 42.23 ng  
RT: 19.14 min Scan# 2801  
Delta R.T. -0.00 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

Tgt Ion:202 Resp: 2120377  
Ion Ratio Lower Upper  
202 100  
101 8.3 0.0 29.5  
203 20.8 0.9 40.9





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.27 min Scan# 3163

Delta R.T. -0.00 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

Instrument :

BNA\_G

ClientSampleId :

DRILLCUTTINGSMSD

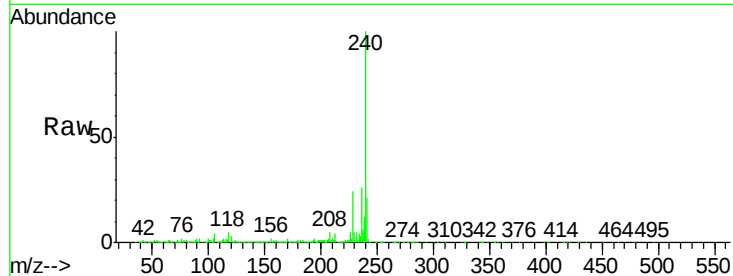
Tgt Ion:240 Resp: 1078150

Ion Ratio Lower Upper

240 100

120 3.5 3.9 5.9#

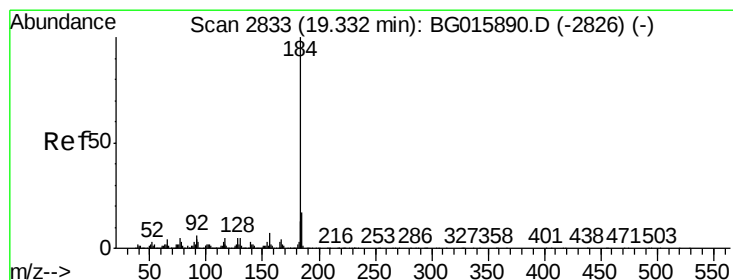
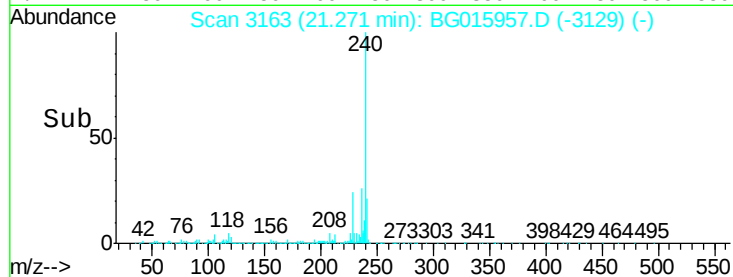
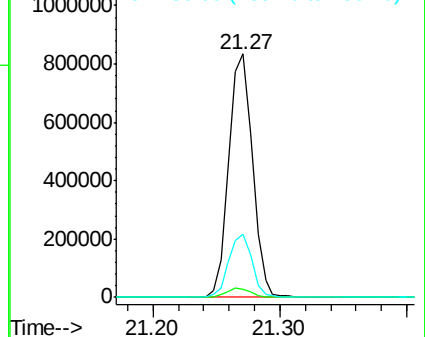
236 25.9 20.0 30.0



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: 10.25 ng

RT: 19.33 min Scan# 2833

Delta R.T. -0.00 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

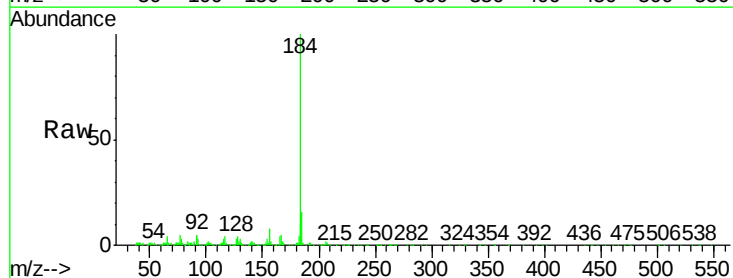
Tgt Ion:184 Resp: 229028

Ion Ratio Lower Upper

184 100

185 15.7 13.3 19.9

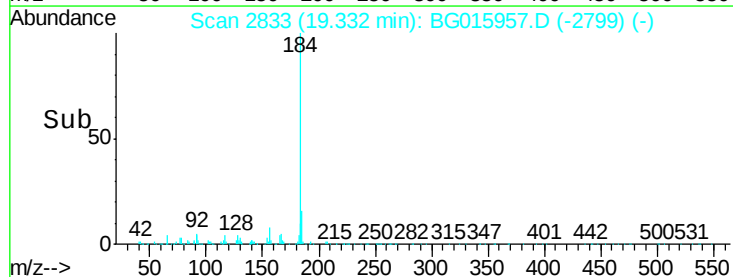
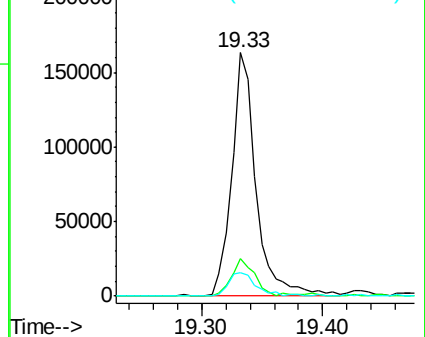
183 9.9 10.1 15.1#

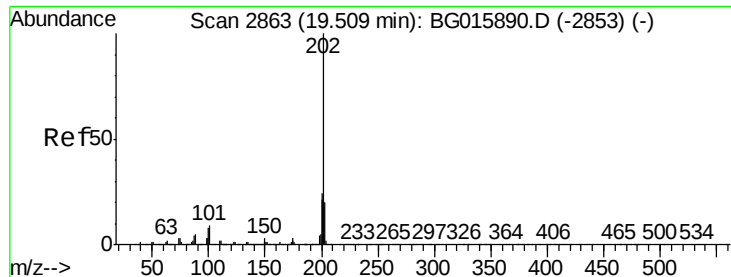


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#77

Pyrene

Concen: 41.71 ng

RT: 19.51 min Scan# 2863

Delta R.T. -0.00 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

Instrument :

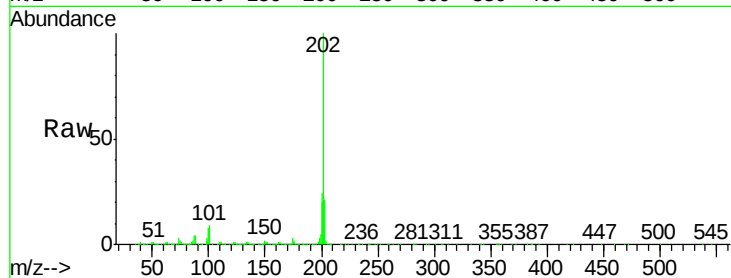
BNA\_G

ClientSampleId :

DRILLCUTTINGSMSD

Tgt Ion:202 Resp: 2137241

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 200 | 24.5  | 19.3  | 28.9  |
| 203 | 21.2  | 15.9  | 23.9  |

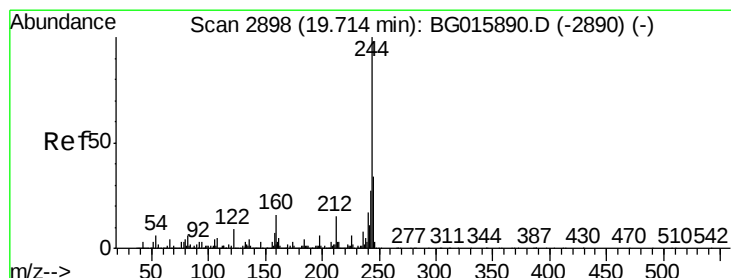
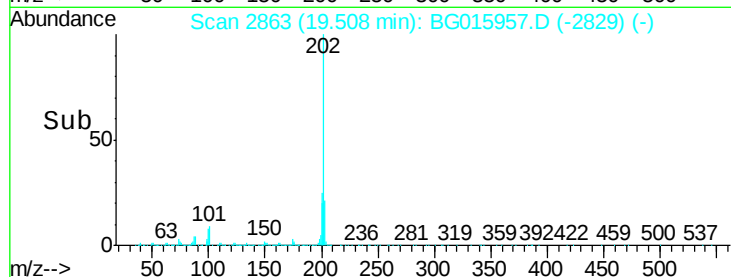
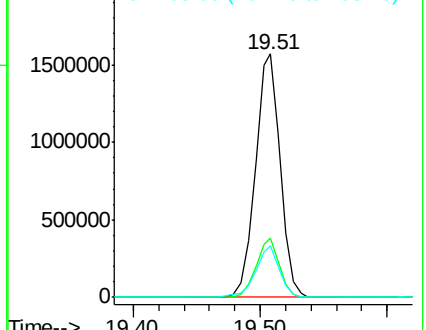


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 93.75 ng

RT: 19.71 min Scan# 2898

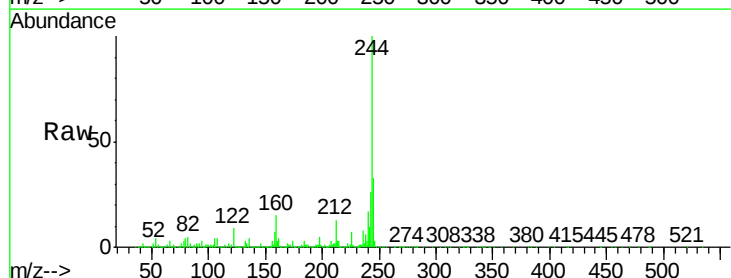
Delta R.T. -0.00 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

Tgt Ion:244 Resp: 3422225

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 12.9  | 11.6  | 17.4  |
| 122 | 9.1   | 7.0   | 10.4  |

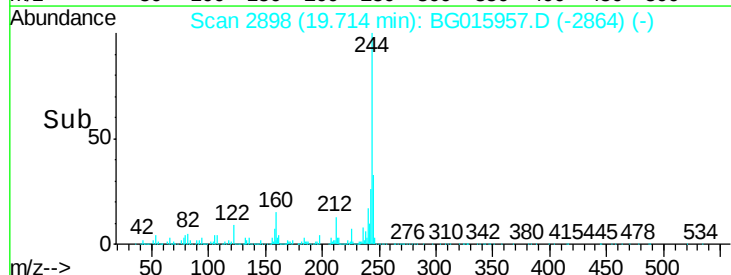
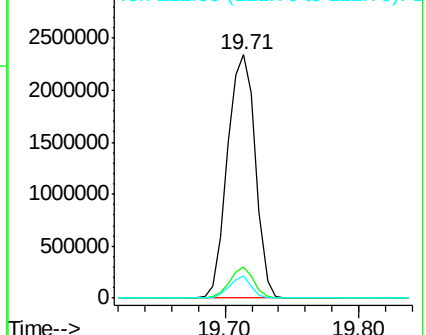


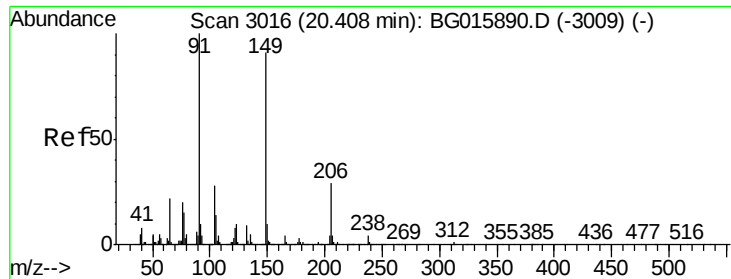
Abundance

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

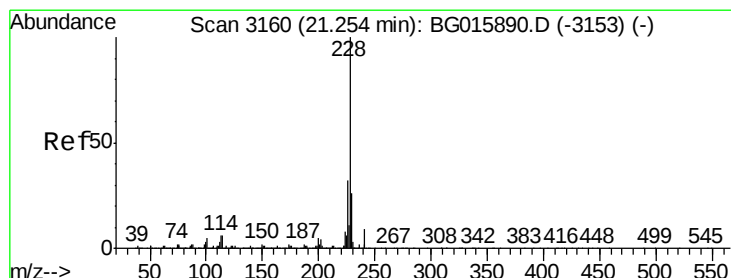
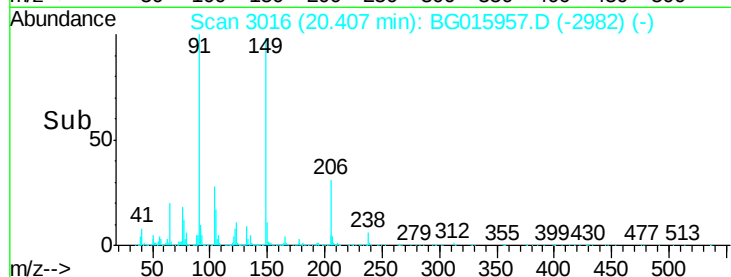
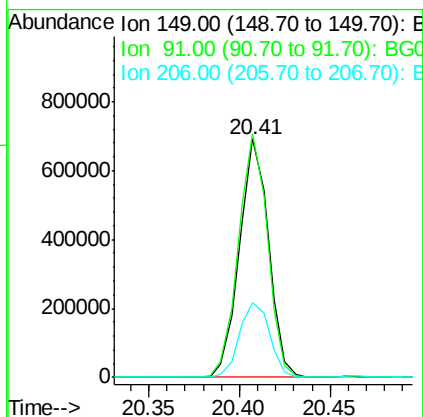
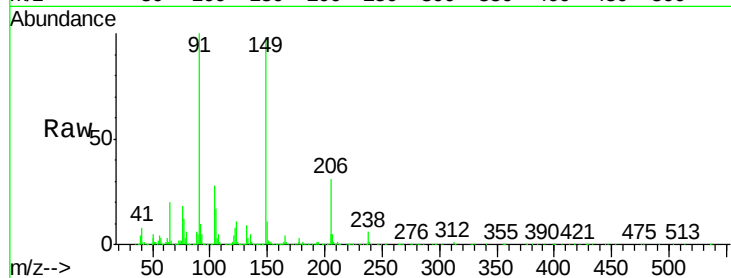




#79  
Butylbenzylphthalate  
Concen: 41.20 ng  
RT: 20.41 min Scan# 3016  
Delta R.T. -0.00 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

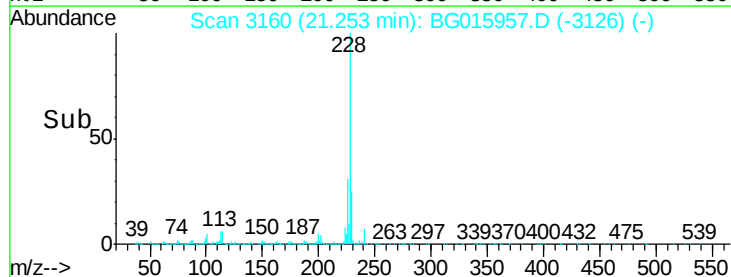
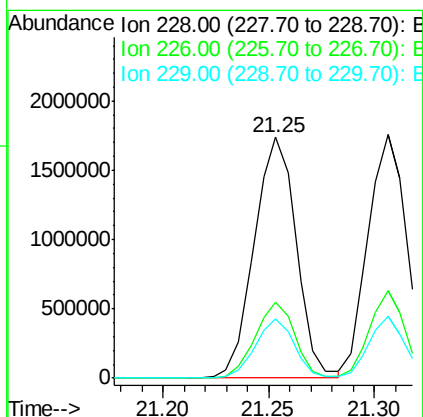
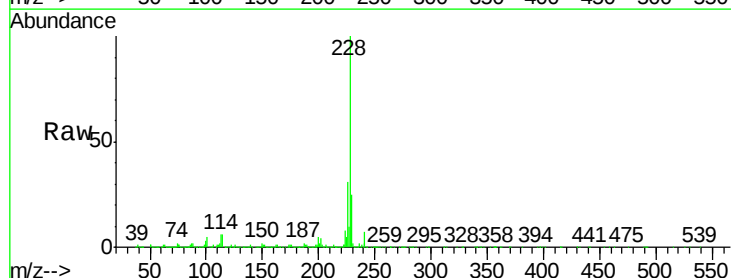
Instrument :  
BNA\_G  
ClientSampleId :  
DRILLCUTTINGSMSD

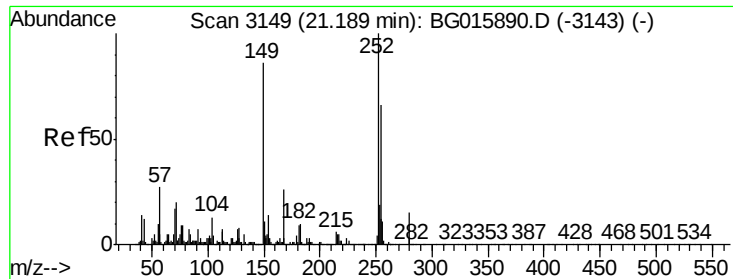
Tgt Ion:149 Resp: 773918  
Ion Ratio Lower Upper  
149 100  
91 102.3 88.4 132.6  
206 31.4 25.3 37.9



#80  
Benzo(a)anthracene  
Concen: 43.82 ng  
RT: 21.25 min Scan# 3160  
Delta R.T. -0.00 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

Tgt Ion:228 Resp: 2408300  
Ion Ratio Lower Upper  
228 100  
226 31.5 25.4 38.0  
229 24.9 21.2 31.8

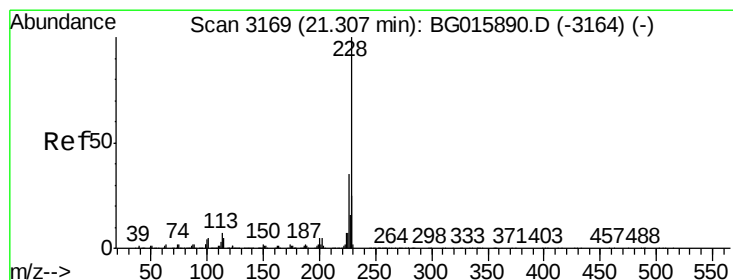
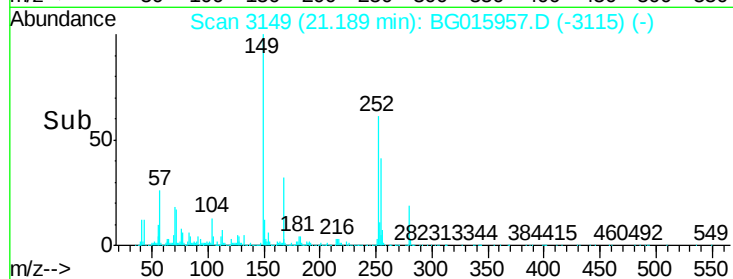
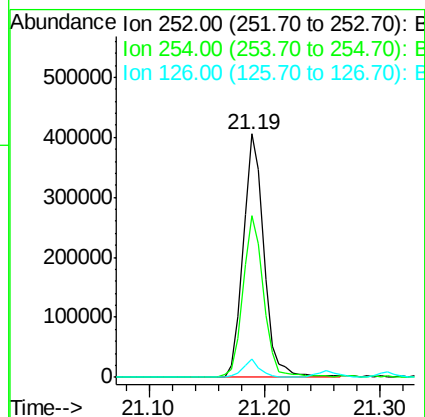
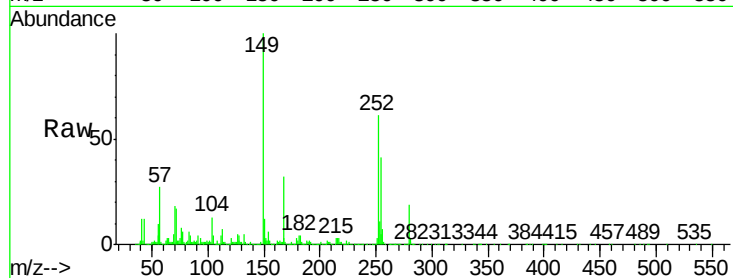




#81  
 3,3'-Dichlorobenzidine  
 Concen: 20.97 ng  
 RT: 21.19 min Scan# 3149  
 Delta R.T. -0.00 min  
 Lab File: BG015957.D  
 Acq: 27 Jan 2015 22:34

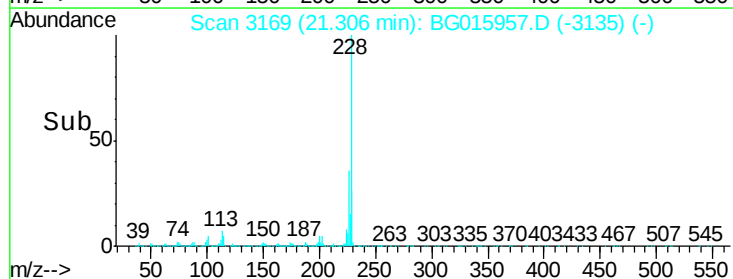
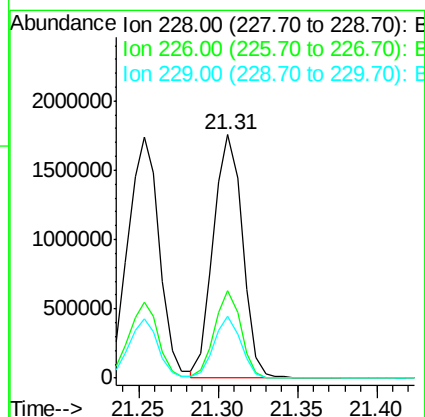
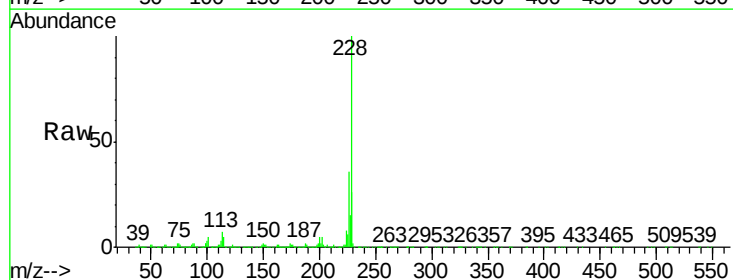
Instrument :  
 BNA\_G  
 ClientSampleId :  
 DRILLCUTTINGSMSD

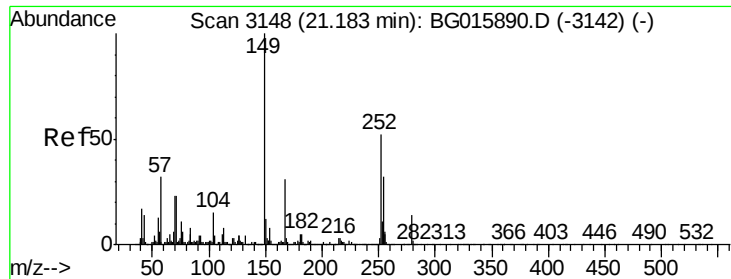
Tgt Ion:252 Resp: 505267  
 Ion Ratio Lower Upper  
 252 100  
 254 66.7 52.9 79.3  
 126 7.5 5.8 8.6



#82  
 Chrysene  
 Concen: 42.96 ng  
 RT: 21.31 min Scan# 3169  
 Delta R.T. -0.00 min  
 Lab File: BG015957.D  
 Acq: 27 Jan 2015 22:34

Tgt Ion:228 Resp: 2253028  
 Ion Ratio Lower Upper  
 228 100  
 226 35.7 28.1 42.1  
 229 25.5 19.8 29.6

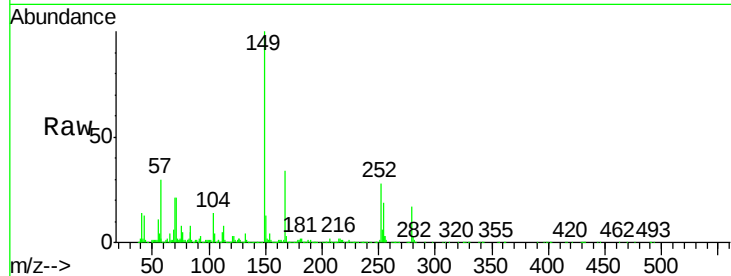




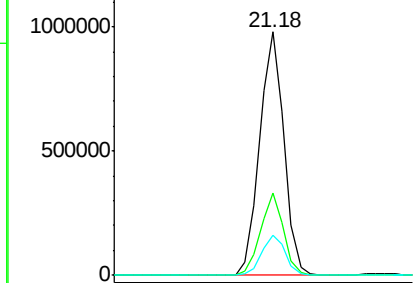
#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 41.50 ng  
 RT: 21.18 min Scan# 3148  
 Delta R.T. -0.00 min  
 Lab File: BG015957.D  
 Acq: 27 Jan 2015 22:34

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DRILLCUTTINGSMSD

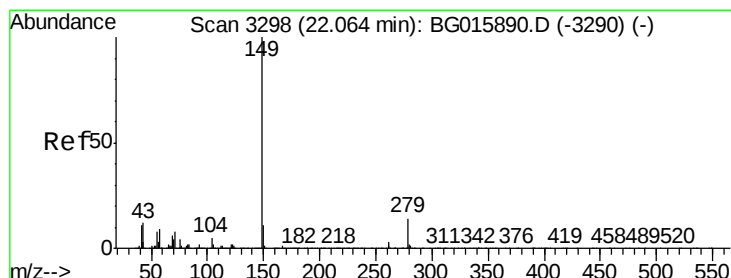
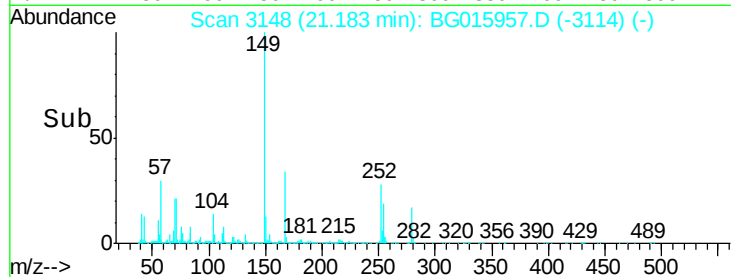
Tgt Ion:149 Resp: 1048308  
 Ion Ratio Lower Upper  
 149 100  
 167 34.1 25.1 37.7  
 279 16.7 11.2 16.8



Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 279.00 (278.70 to 279.70): E

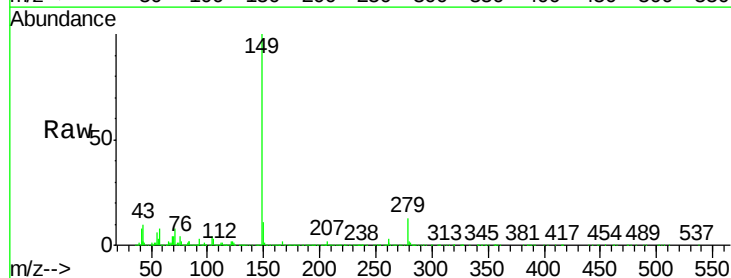


Time--> 21.10 21.15 21.20 21.25

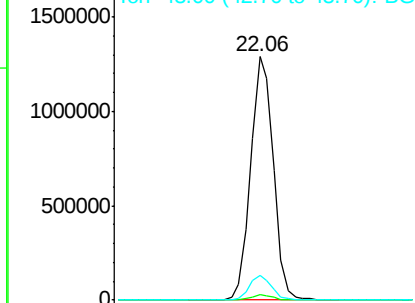


#84  
 Di-n-octyl phthalate  
 Concen: 43.19 ng  
 RT: 22.06 min Scan# 3297  
 Delta R.T. -0.01 min  
 Lab File: BG015957.D  
 Acq: 27 Jan 2015 22:34

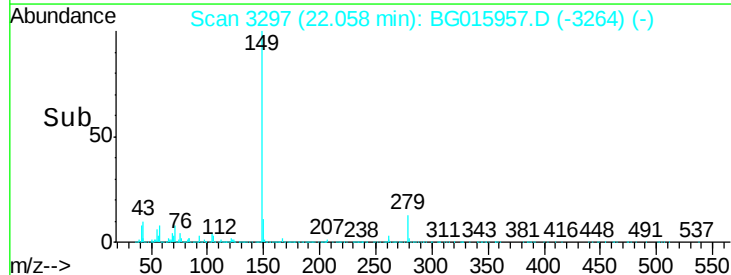
Tgt Ion:149 Resp: 1687884  
 Ion Ratio Lower Upper  
 149 100  
 167 2.2 1.4 2.0#  
 43 9.9 9.2 13.8

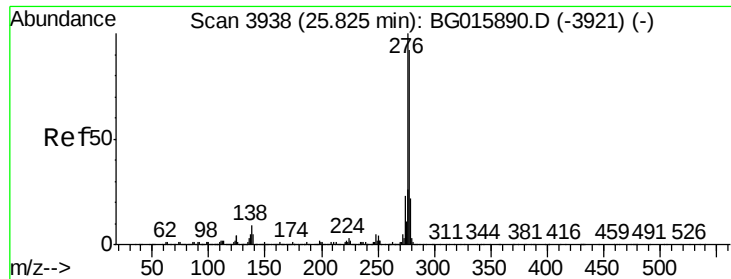


Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 43.00 (42.70 to 43.70): BG



Time--> 22.00 22.10





#85

Indeno(1,2,3-cd)pyrene

Concen: 42.81 ng

RT: 25.82 min Scan# 3937

Delta R.T. -0.01 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

Instrument :

BNA\_G

ClientSampleId :

DRILLCUTTINGSMSD

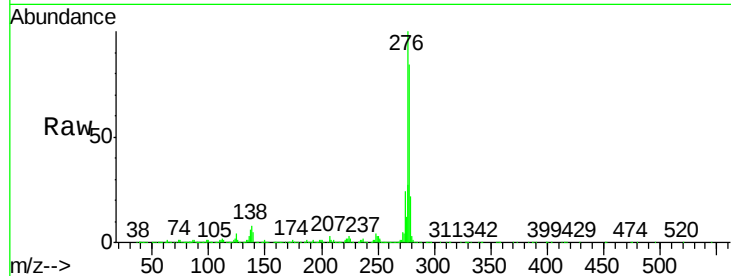
Tgt Ion:276 Resp: 2706155

Ion Ratio Lower Upper

276 100

138 7.7 6.9 10.3

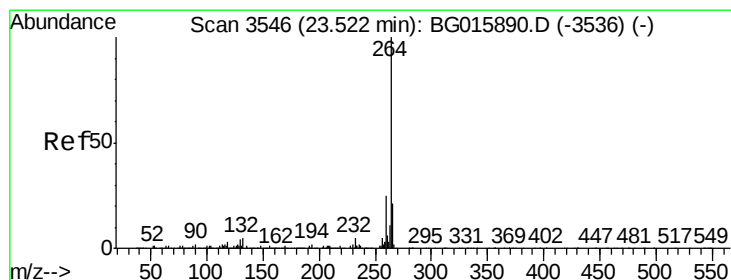
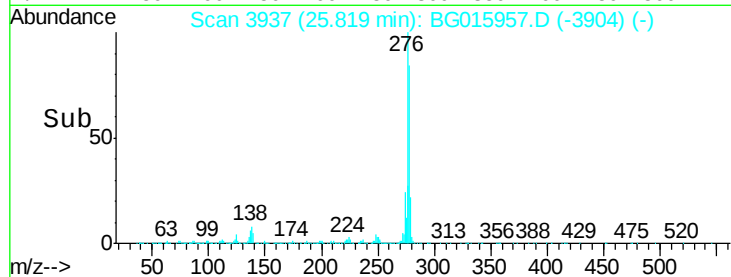
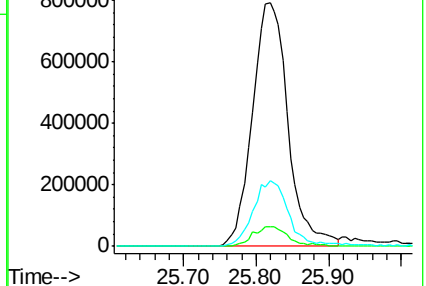
277 25.9 20.7 31.1



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 23.52 min Scan# 3546

Delta R.T. -0.00 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

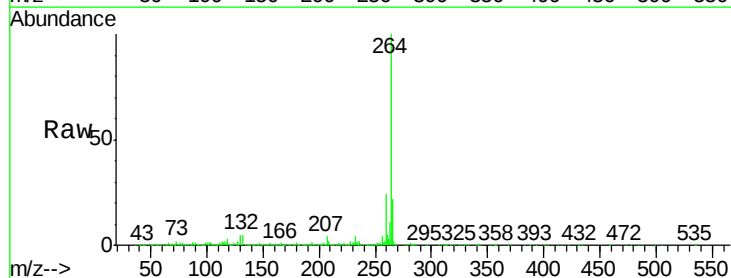
Tgt Ion:264 Resp: 1062776

Ion Ratio Lower Upper

264 100

260 23.9 19.7 29.5

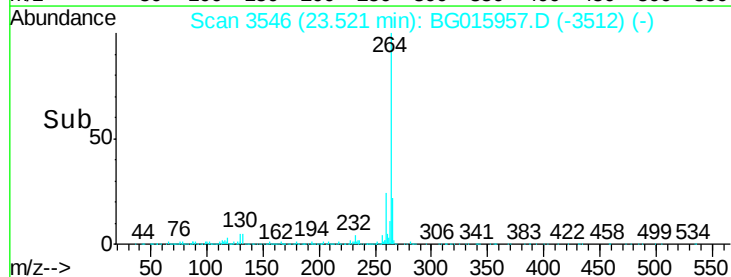
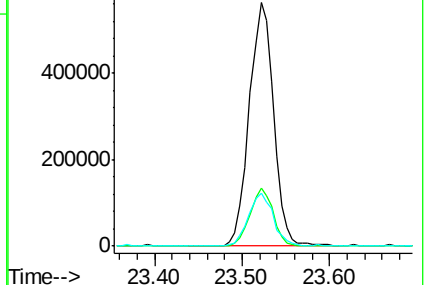
265 21.8 17.3 25.9

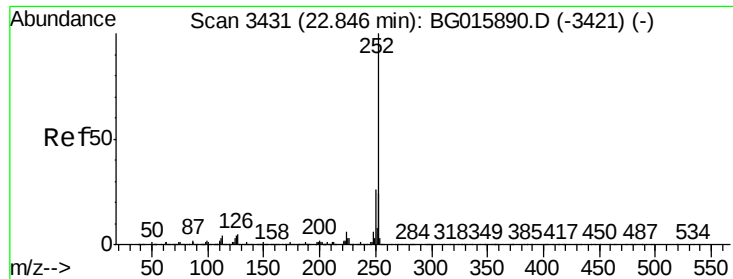


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

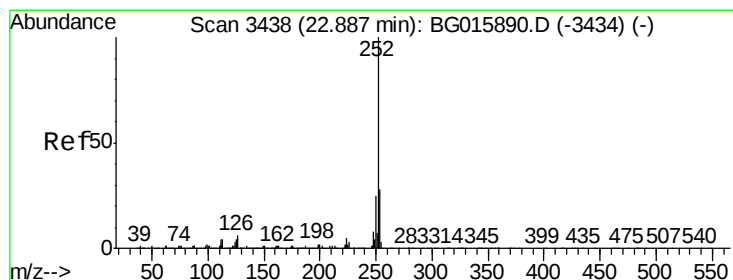
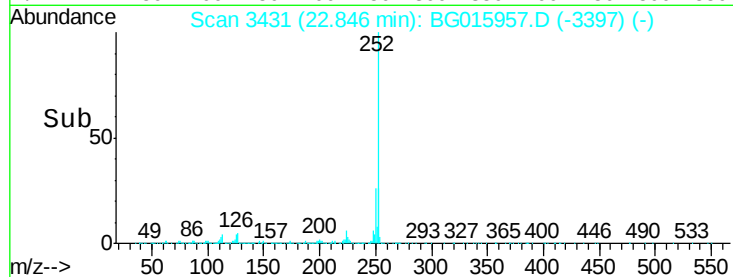
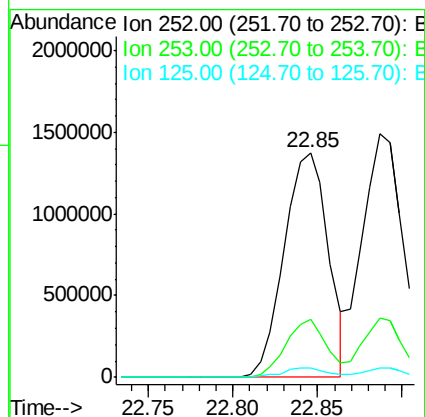
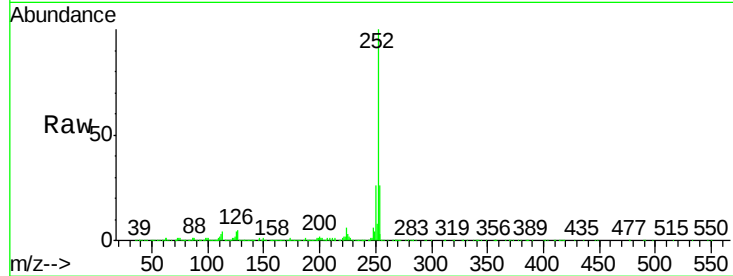




#87  
Benzo(b)fluoranthene  
Concen: 40.99 ng  
RT: 22.85 min Scan# 3431  
Delta R.T. -0.00 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

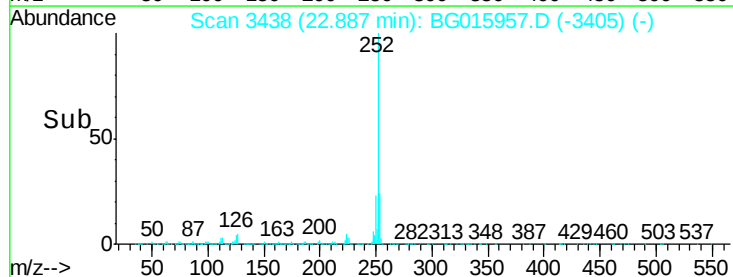
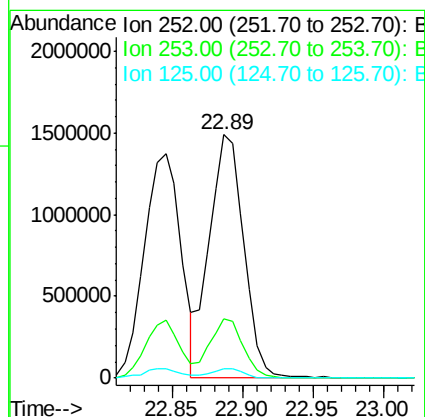
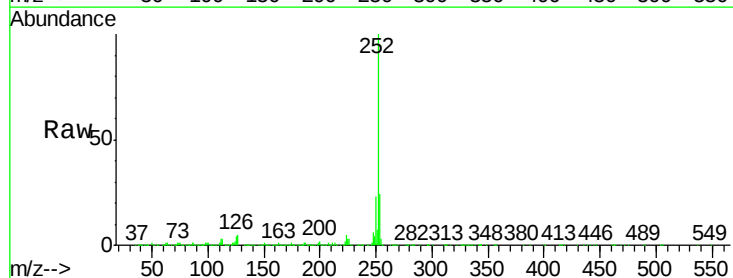
Instrument :  
BNA\_G  
ClientSampleId :  
DRILLCUTTINGSMSD

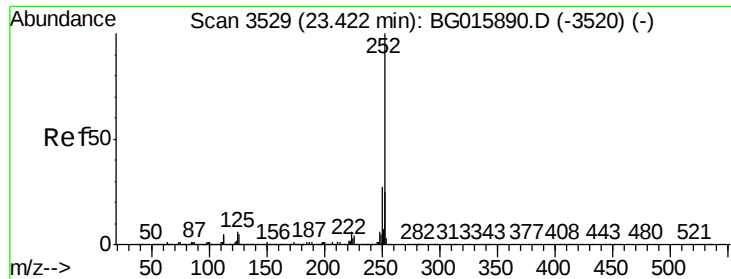
Tgt Ion:252 Resp: 2486487  
Ion Ratio Lower Upper  
252 100  
253 26.0 19.4 29.0  
125 4.1 2.9 4.3



#88  
Benzo(k)fluoranthene  
Concen: 42.65 ng  
RT: 22.89 min Scan# 3438  
Delta R.T. -0.01 min  
Lab File: BG015957.D  
Acq: 27 Jan 2015 22:34

Tgt Ion:252 Resp: 2504626  
Ion Ratio Lower Upper  
252 100  
253 24.3 21.3 31.9  
125 4.0 3.4 5.0





#89

Benzo(a)pyrene

Concen: 41.91 ng

RT: 23.43 min Scan# 3530

Delta R.T. -0.00 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

Instrument :

BNA\_G

ClientSampleId :

DRILLCUTTINGSMSD

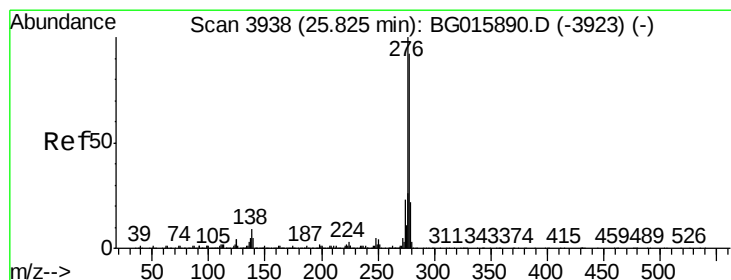
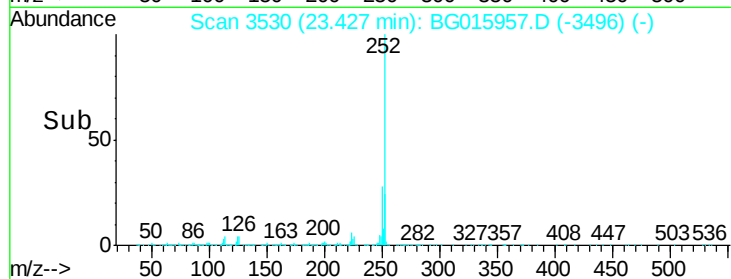
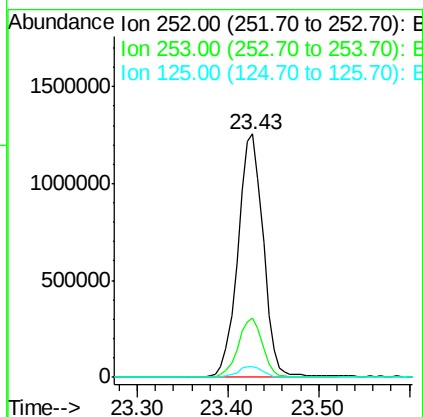
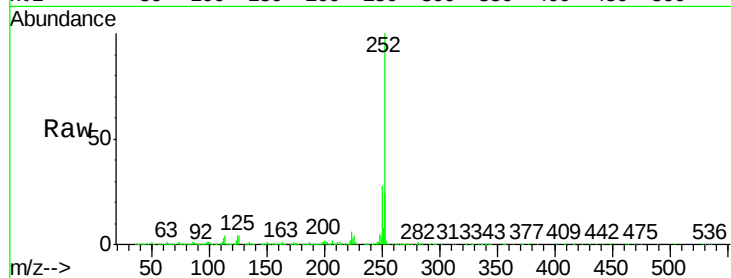
Tgt Ion:252 Resp: 2446189

Ion Ratio Lower Upper

252 100

253 24.4 19.9 29.9

125 4.4 4.5 6.7#



#90

Dibenzo(a,h)anthracene

Concen: 42.29 ng

RT: 25.82 min Scan# 3938

Delta R.T. -0.01 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

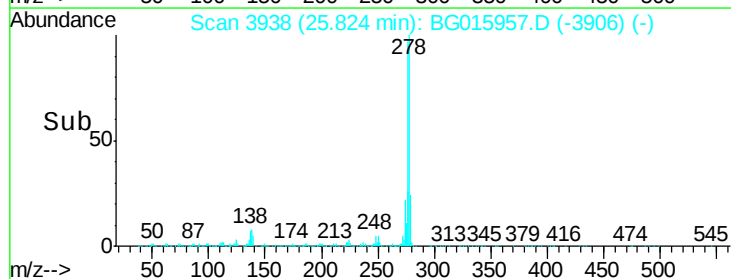
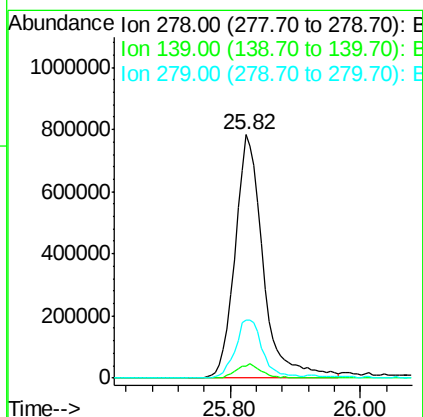
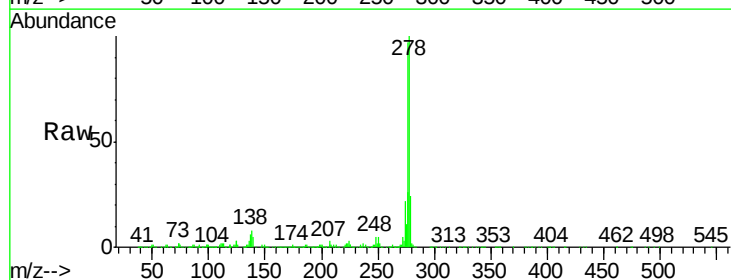
Tgt Ion:278 Resp: 2343289

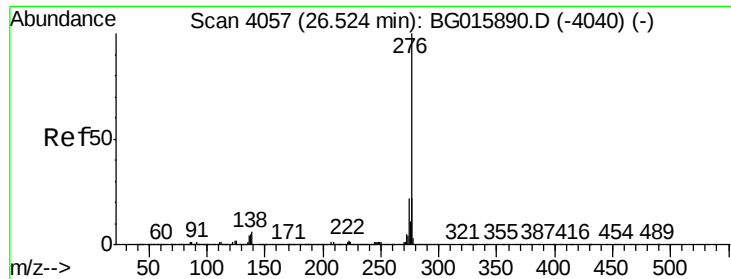
Ion Ratio Lower Upper

278 100

139 4.9 4.3 6.5

279 23.7 19.4 29.0





#91

Benzo(g,h,i)perylene

Concen: 43.45 ng

RT: 26.52 min Scan# 4056

Delta R.T. -0.01 min

Lab File: BG015957.D

Acq: 27 Jan 2015 22:34

Instrument :

BNA\_G

ClientSampleId :

DRILLCUTTINGSMSD

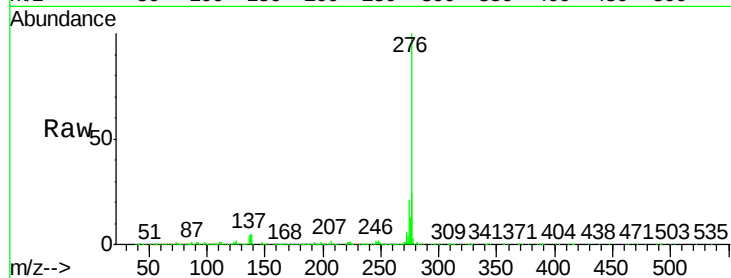
Tgt Ion: 276 Resp: 2348791

Ion Ratio Lower Upper

276 100

277 23.8 17.2 25.8

138 5.5 5.0 7.6



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

