

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG121115\  
 Data File : BG020094.D  
 Acq On : 11 Dec 2015 4:07  
 Operator : UM/SJ  
 Sample : PB87183BS  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB87183BS

Quant Time: Dec 11 06:33:47 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG120215.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 02 18:50:01 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.11  | 152  | 18113    | 20.00 | ng    | -0.03    |
| 21) Naphthalene-d8        | 10.93 | 136  | 79116    | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10      | 14.74 | 164  | 56423    | 20.00 | ng    | -0.03    |
| 63) Phenanthrene-d10      | 17.48 | 188  | 142042   | 20.00 | ng    | -0.03    |
| 75) Chrysene-d12          | 21.76 | 240  | 171662   | 20.00 | ng    | -0.03    |
| 86) Perylene-d12          | 25.03 | 264  | 159070   | 20.00 | ng    | -0.06    |

## System Monitoring Compounds

|                          |       |     |        |        |    |       |
|--------------------------|-------|-----|--------|--------|----|-------|
| 5) 2-Fluorophenol        | 5.66  | 112 | 134837 | 134.54 | ng | -0.01 |
| 7) Phenol-d6             | 7.26  | 99  | 199568 | 131.89 | ng | -0.01 |
| 23) Nitrobenzene-d5      | 9.28  | 82  | 128490 | 82.89  | ng | -0.02 |
| 41) 2,4,6-Tribromophenol | 16.22 | 330 | 104103 | 120.59 | ng | -0.02 |
| 44) 2-Fluorobiphenyl     | 13.37 | 172 | 319387 | 77.29  | ng | -0.02 |
| 78) Terphenyl-d14        | 20.08 | 244 | 568215 | 80.74  | ng | -0.03 |

## Target Compounds

|                                |       |     |        |       |    | Qvalue |
|--------------------------------|-------|-----|--------|-------|----|--------|
| 2) 1,4-Dioxane                 | 3.51  | 88  | 11959  | 30.63 | ng | # 100  |
| 3) Pyridine                    | 3.92  | 79  | 41861  | 35.30 | ng | 89     |
| 4) n-Nitrosodimethylamine      | 3.83  | 42  | 20845  | 33.43 | ng | 88     |
| 6) Aniline                     | 7.43  | 93  | 32710  | 16.69 | ng | # 82   |
| 8) 2-Chlorophenol              | 7.67  | 128 | 51981  | 42.54 | ng | 95     |
| 9) Benzaldehyde                | 7.24  | 77  | 28990  | 28.73 | ng | 91     |
| 10) Phenol                     | 7.29  | 94  | 70478  | 44.26 | ng | 81     |
| 11) bis(2-Chloroethyl)ether    | 7.52  | 93  | 45748  | 38.79 | ng | 88     |
| 12) 1,3-Dichlorobenzene        | 8.00  | 146 | 51753  | 37.36 | ng | # 94   |
| 13) 1,4-Dichlorobenzene        | 8.14  | 146 | 53489  | 37.39 | ng | # 94   |
| 14) 1,2-Dichlorobenzene        | 8.47  | 146 | 51853  | 38.00 | ng | 96     |
| 15) Benzyl Alcohol             | 8.34  | 79  | 52352  | 39.43 | ng | 92     |
| 16) 2,2'-oxybis(1-Chloropropan | 8.64  | 45  | 66968  | 34.81 | ng | 94     |
| 17) 2-Methylphenol             | 8.54  | 107 | 48747  | 43.36 | ng | # 92   |
| 18) Hexachloroethane           | 9.20  | 117 | 20152  | 37.62 | ng | 89     |
| 19) n-Nitroso-di-n-propylamine | 8.91  | 70  | 42406  | 35.54 | ng | 95     |
| 20) 3+4-Methylphenols          | 8.87  | 107 | 67439  | 42.60 | ng | 94     |
| 22) Acetophenone               | 8.94  | 105 | 78883  | 36.37 | ng | # 93   |
| 24) Nitrobenzene               | 9.32  | 77  | 66420  | 39.50 | ng | 92     |
| 25) Isophorone                 | 9.84  | 82  | 115899 | 34.87 | ng | 96     |
| 26) 2-Nitrophenol              | 10.03 | 139 | 29470  | 45.38 | ng | # 68   |
| 27) 2,4-Dimethylphenol         | 10.08 | 122 | 53983  | 39.92 | ng | 90     |
| 28) bis(2-Chloroethoxy)methane | 10.32 | 93  | 66181  | 40.75 | ng | 98     |
| 29) 2,4-Dichlorophenol         | 10.57 | 162 | 61296  | 44.37 | ng | 99     |
| 30) 1,2,4-Trichlorobenzene     | 10.79 | 180 | 60238  | 38.58 | ng | 96     |
| 31) Naphthalene                | 10.98 | 128 | 165473 | 39.04 | ng | 98     |
| 32) Benzoic acid               | 10.21 | 122 | 39060  | 43.50 | ng | 89     |
| 33) 4-Chloroaniline            | 11.08 | 127 | 18280  | 9.79  | ng | # 94   |
| 34) Hexachlorobutadiene        | 11.26 | 225 | 41565  | 36.09 | ng | 99     |
| 35) Caprolactam                | 11.85 | 113 | 16220  | 31.54 | ng | # 65   |
| 36) 4-Chloro-3-methylphenol    | 12.19 | 107 | 70191  | 40.79 | ng | 90     |
| 37) 2-Methylnaphthalene        | 12.57 | 142 | 125228 | 40.32 | ng | # 96   |
| 39) 1,2,4,5-Tetrachlorobenzene | 12.94 | 216 | 82290  | 38.43 | ng | 98     |
| 40) Hexachlorocyclopentadiene  | 12.92 | 237 | 77250  | 63.27 | ng | 99     |

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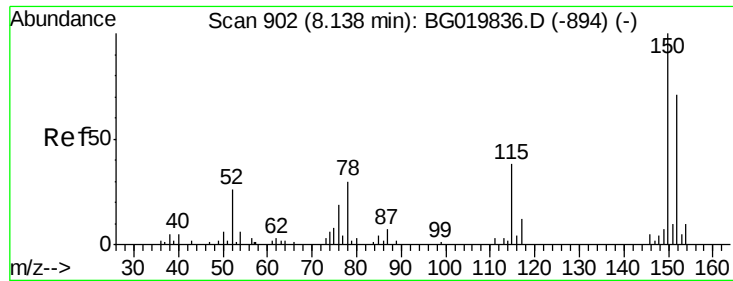
Instrument :  
 BNA\_G  
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Quant Time: Dec 11 06:33:47 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG120215.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 02 18:50:01 2015  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 13.17 | 196  | 57377    | 40.47 | ng    | 98       |
| 43) 2,4,5-Trichlorophenol      | 13.24 | 196  | 64144    | 42.81 | ng    | 97       |
| 45) 1,1'-Biphenyl              | 13.57 | 154  | 171760   | 37.09 | ng    | 99       |
| 46) 2-Chloronaphthalene        | 13.62 | 162  | 139388   | 39.05 | ng    | 97       |
| 47) 2-Nitroaniline             | 13.82 | 65   | 49079    | 43.54 | ng    | 87       |
| 48) Acenaphthylene             | 14.46 | 152  | 231715   | 38.11 | ng    | 98       |
| 49) Dimethylphthalate          | 14.19 | 163  | 182012   | 35.86 | ng    | 98       |
| 50) 2,6-Dinitrotoluene         | 14.31 | 165  | 41171    | 43.14 | ng    | # 82     |
| 51) Acenaphthene               | 14.80 | 154  | 138517   | 37.55 | ng    | 97       |
| 52) 3-Nitroaniline             | 14.64 | 138  | 23385    | 23.59 | ng    | 97       |
| 53) 2,4-Dinitrophenol          | 14.84 | 184  | 34419    | 69.20 | ng    | 89       |
| 54) Dibenzofuran               | 15.14 | 168  | 229356   | 41.79 | ng    | 93       |
| 55) 4-Nitrophenol              | 14.94 | 139  | 66445    | 76.96 | ng    | # 66     |
| 56) 2,4-Dinitrotoluene         | 15.09 | 165  | 58167    | 43.69 | ng    | # 91     |
| 57) Fluorene                   | 15.78 | 166  | 183653   | 37.39 | ng    | 99       |
| 58) 2,3,4,6-Tetrachlorophenol  | 15.36 | 232  | 60224    | 43.43 | ng    | 96       |
| 59) Diethylphthalate           | 15.55 | 149  | 190424   | 34.67 | ng    | 98       |
| 60) 4-Chlorophenyl-phenylether | 15.77 | 204  | 102983   | 36.51 | ng    | 96       |
| 61) 4-Nitroaniline             | 15.80 | 138  | 41360    | 37.09 | ng    | # 75     |
| 62) Azobenzene                 | 16.06 | 77   | 180217   | 39.43 | ng    | 95       |
| 64) 4,6-Dinitro-2-methylphenol | 15.85 | 198  | 29475    | 38.34 | ng    | 92       |
| 65) n-Nitrosodiphenylamine     | 15.99 | 169  | 167258   | 40.69 | ng    | 95       |
| 66) 4-Bromophenyl-phenylether  | 16.66 | 248  | 69324    | 39.28 | ng    | 97       |
| 67) Hexachlorobenzene          | 16.79 | 284  | 73871    | 40.18 | ng    | 94       |
| 68) Atrazine                   | 16.93 | 200  | 68545    | 38.38 | ng    | 97       |
| 69) Pentachlorophenol          | 17.13 | 266  | 88462    | 82.43 | ng    | 94       |
| 70) Phenanthrene               | 17.52 | 178  | 318557   | 39.64 | ng    | 96       |
| 71) Anthracene                 | 17.62 | 178  | 323286   | 39.49 | ng    | 96       |
| 72) Carbazole                  | 17.88 | 167  | 283811   | 39.36 | ng    | 97       |
| 73) Di-n-butylphthalate        | 18.43 | 149  | 337317   | 38.16 | ng    | 98       |
| 74) Fluoranthene               | 19.52 | 202  | 401075   | 39.02 | ng    | 94       |
| 76) Benzidine                  | 19.70 | 184  | 103128   | 18.29 | ng    | 96       |
| 77) Pyrene                     | 19.89 | 202  | 411775   | 40.77 | ng    | 95       |
| 79) Butylbenzylphthalate       | 20.76 | 149  | 155154   | 39.20 | ng    | 96       |
| 80) Benzo(a)anthracene         | 21.73 | 228  | 418014   | 39.78 | ng    | 97       |
| 81) 3,3'-Dichlorobenzidine     | 21.65 | 252  | 77015    | 19.24 | ng    | 98       |
| 82) Chrysene                   | 21.80 | 228  | 375653   | 37.65 | ng    | 96       |
| 83) Bis(2-ethylhexyl)phthalate | 21.63 | 149  | 224238   | 38.60 | ng    | 96       |
| 84) Di-n-octyl phthalate       | 22.86 | 149  | 383845   | 40.64 | ng    | # 96     |
| 85) Indeno(1,2,3-cd)pyrene     | 28.78 | 276  | 411902   | 37.48 | ng    | # 100    |
| 87) Benzo(b)fluoranthene       | 23.99 | 252  | 390831   | 38.77 | ng    | # 93     |
| 88) Benzo(k)fluoranthene       | 24.06 | 252  | 385557   | 38.62 | ng    | # 94     |
| 89) Benzo(a)pyrene             | 24.88 | 252  | 381397   | 39.85 | ng    | # 95     |
| 90) Dibenzo(a,h)anthracene     | 28.85 | 278  | 345695   | 36.56 | ng    | # 91     |
| 91) Benzo(g,h,i)perylene       | 29.94 | 276  | 313128   | 33.72 | ng    | # 93     |

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





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.11 min Scan# 897

Delta R.T. -0.03 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

Instrument :

BNA\_G

ClientSampleId :

PB87183BS

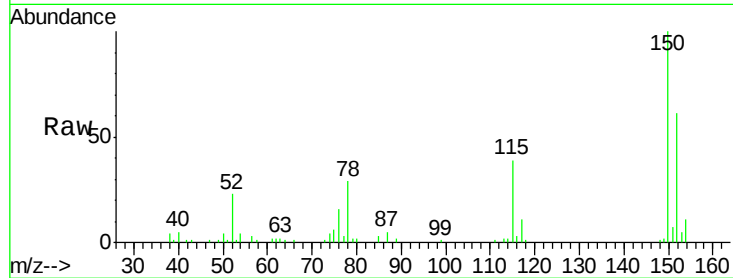
Tgt Ion:152 Resp: 18113

Ion Ratio Lower Upper

152 100

150 165.2 115.0 172.4

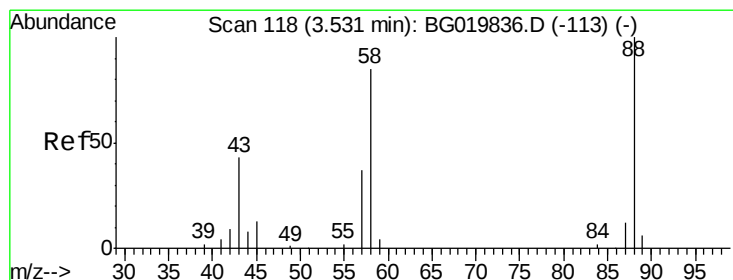
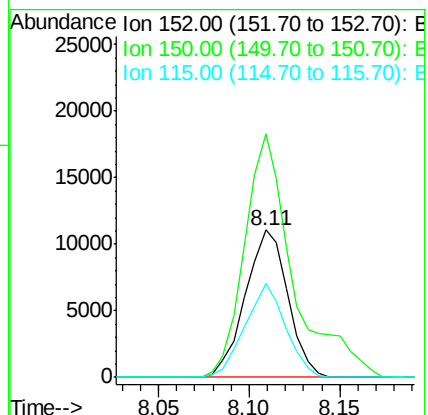
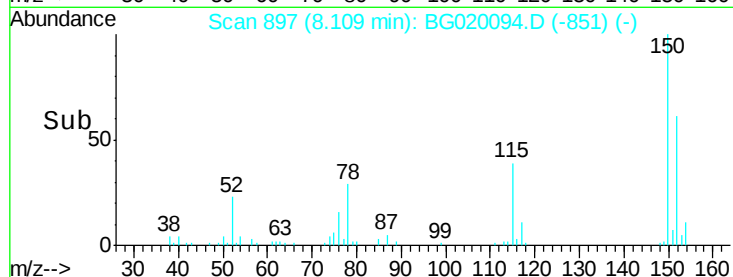
115 63.9 43.9 65.9



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: 30.63 ng

RT: 3.51 min Scan# 115

Delta R.T. -0.02 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

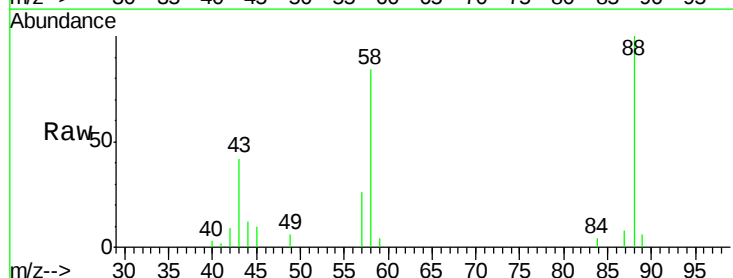
Tgt Ion: 88 Resp: 11959

Ion Ratio Lower Upper

88 100

58 82.7 0.0 0.0#

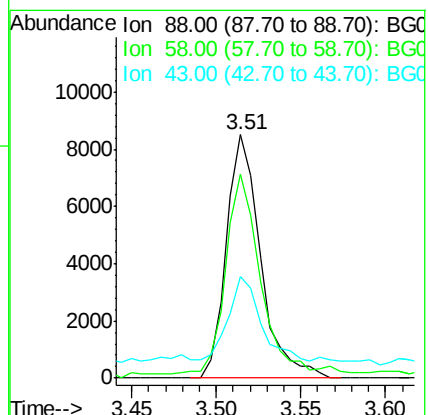
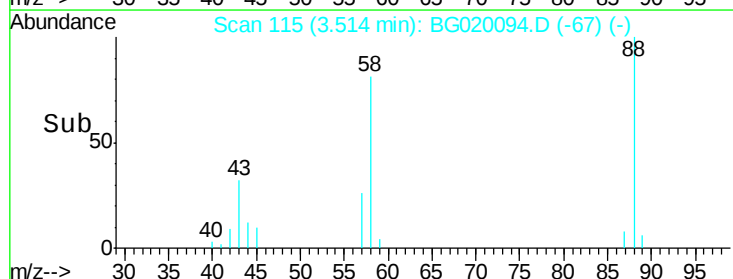
43 32.5 0.0 0.0#



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: 35.30 ng

RT: 3.92 min Scan# 184

Delta R.T. -0.03 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

Instrument :

BNA\_G

ClientSampleId :

PB87183BS

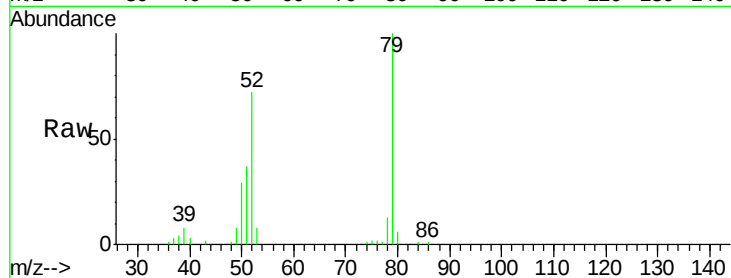
Tgt Ion: 79 Resp: 41861

Ion Ratio Lower Upper

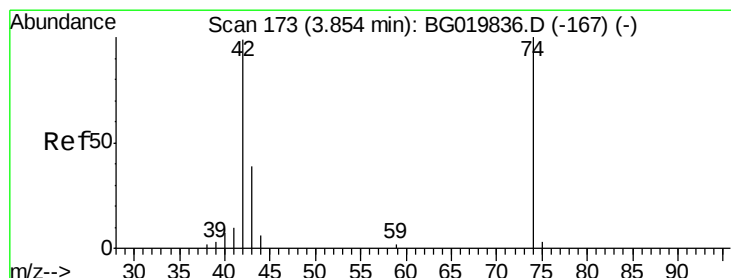
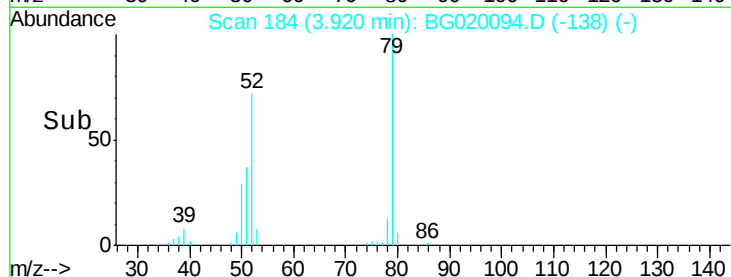
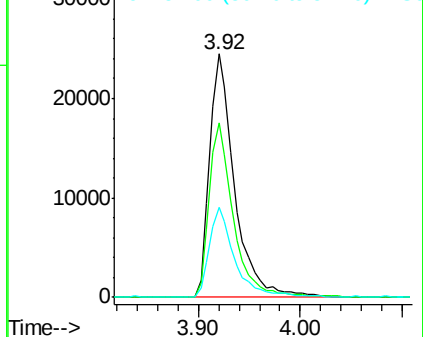
79 100

52 71.8 50.3 75.5

51 36.7 24.8 37.2



Abundance Ion 79.00 (78.70 to 79.70): BGC  
Ion 52.00 (51.70 to 52.70): BGC  
Ion 51.00 (50.70 to 51.70): BGC



#4

n-Nitrosodimethylamine

Concen: 33.43 ng

RT: 3.83 min Scan# 169

Delta R.T. -0.02 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

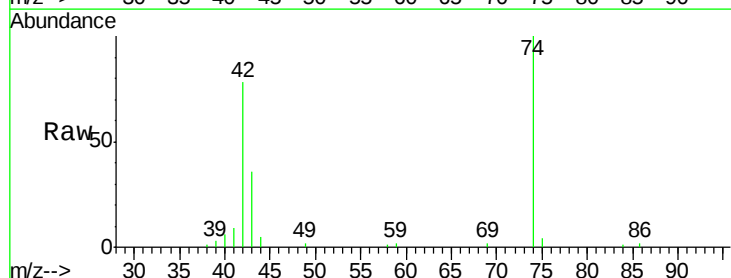
Tgt Ion: 42 Resp: 20845

Ion Ratio Lower Upper

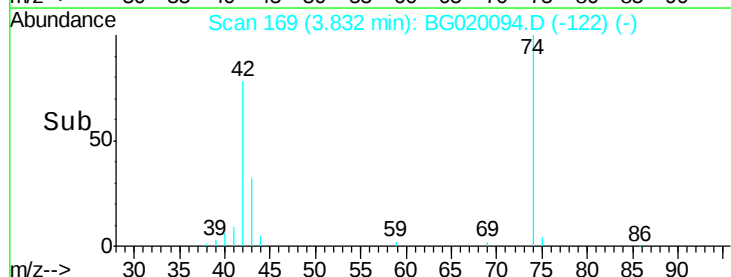
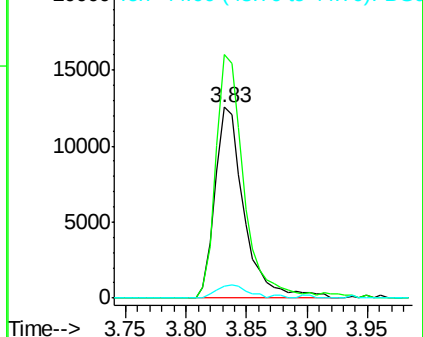
42 100

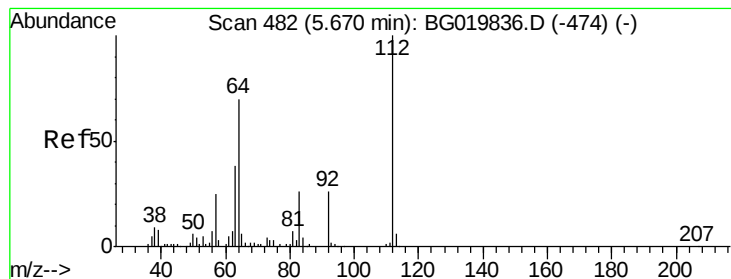
74 127.6 113.9 170.9

44 6.5 5.7 8.5



Abundance Ion 42.00 (41.70 to 42.70): BGC  
Ion 74.00 (73.70 to 74.70): BGC  
Ion 44.00 (43.70 to 44.70): BGC





#5

2-Fluorophenol

Concen: 134.54 ng

RT: 5.66 min Scan# 480

Delta R.T. -0.01 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

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BNA\_G

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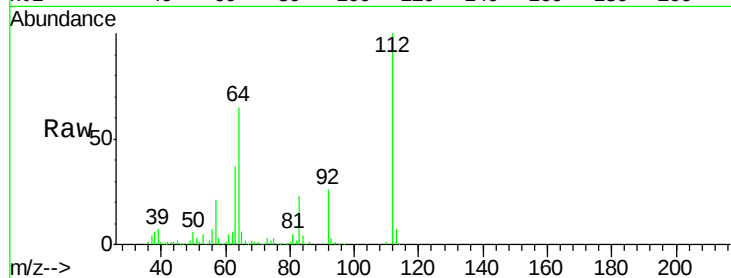
Tgt Ion: 112 Resp: 134837

Ion Ratio Lower Upper

112 100

64 64.8 43.7 65.5

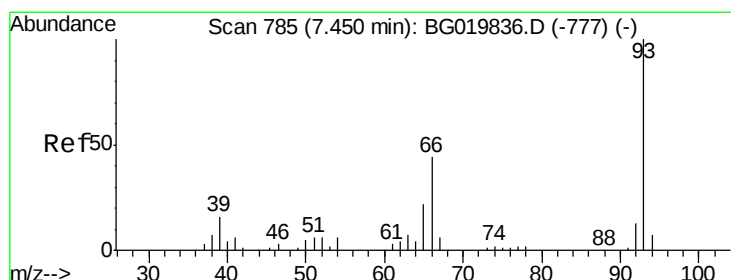
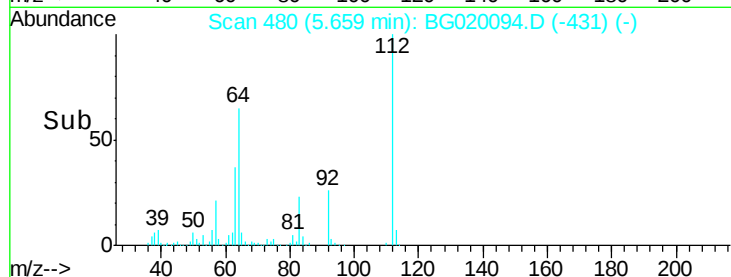
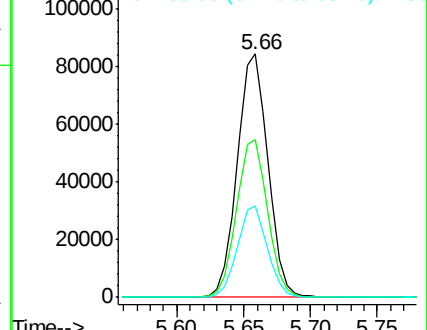
63 37.3 24.0 36.0#



Abundance Ion 112.00 (111.70 to 112.70): B

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC



#6

Aniline

Concen: 16.69 ng

RT: 7.43 min Scan# 781

Delta R.T. -0.02 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

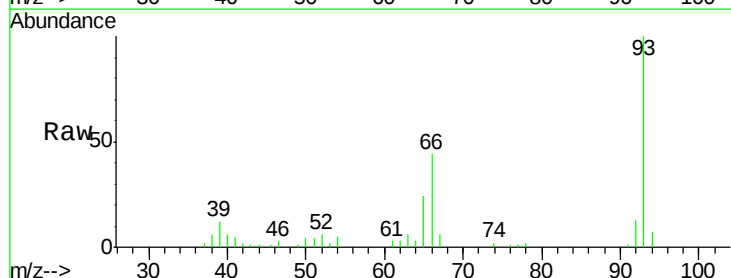
Tgt Ion: 93 Resp: 32710

Ion Ratio Lower Upper

93 100

66 43.9 26.2 39.2#

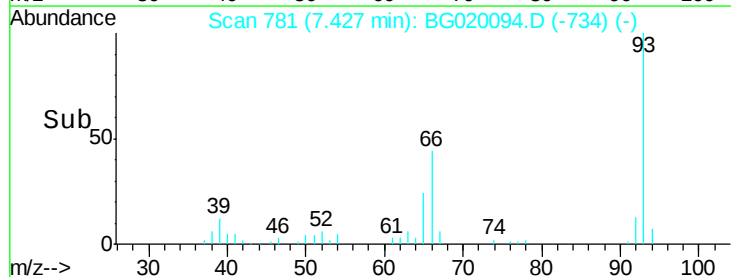
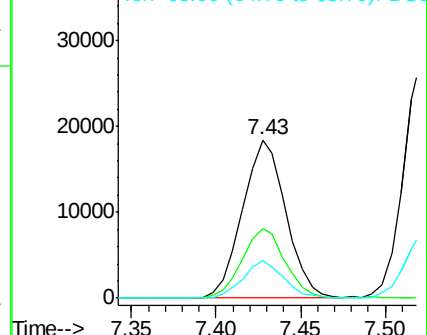
65 23.6 14.0 21.0#

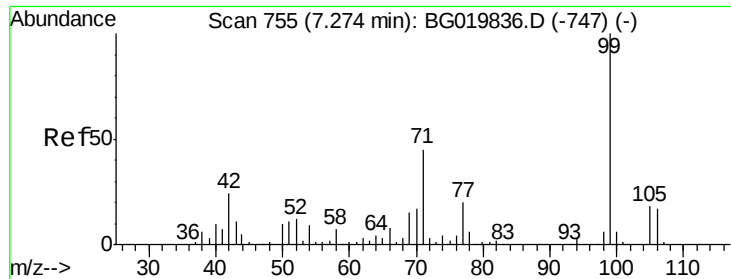


Abundance Ion 93.00 (92.70 to 93.70): BGC

Ion 66.00 (65.70 to 66.70): BGC

Ion 65.00 (64.70 to 65.70): BGC





#7

Phenol-d6

Concen: 131.89 ng

RT: 7.26 min Scan# 753

Delta R.T. -0.01 min

Lab File: BG020094.D

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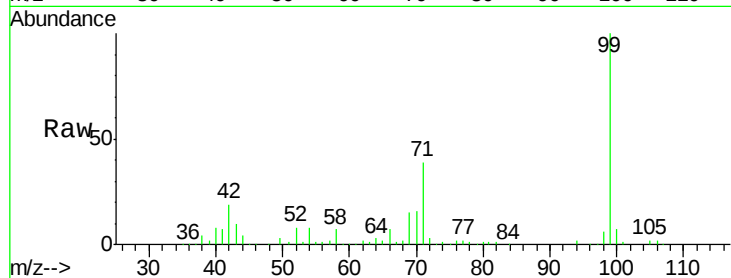
Tgt Ion: 99 Resp: 199568

Ion Ratio Lower Upper

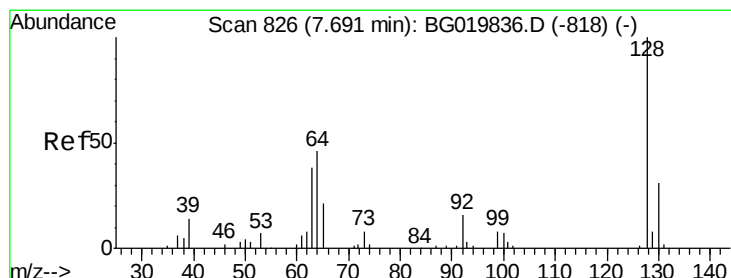
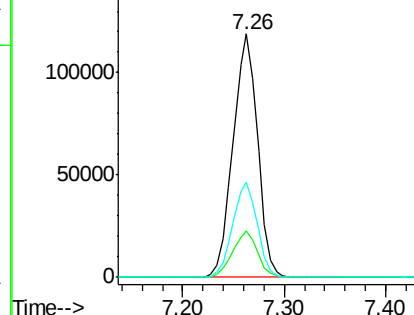
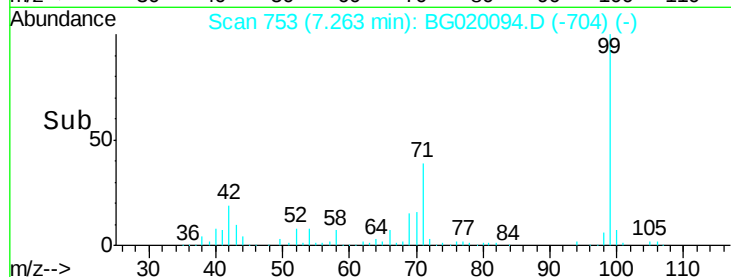
99 100

42 19.1 11.5 17.3#

71 39.1 22.6 34.0#



Abundance Ion 99.00 (98.70 to 99.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 71.00 (70.70 to 71.70): BGC



#8

2-Chlorophenol

Concen: 42.54 ng

RT: 7.67 min Scan# 823

Delta R.T. -0.02 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

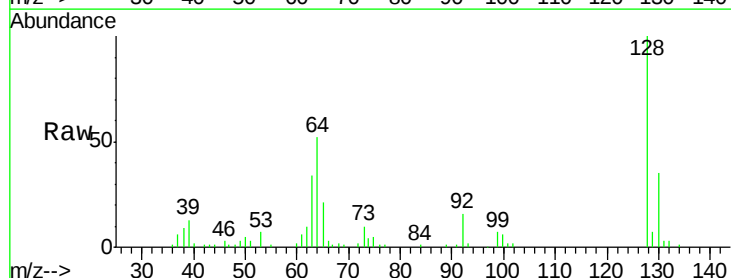
Tgt Ion: 128 Resp: 51981

Ion Ratio Lower Upper

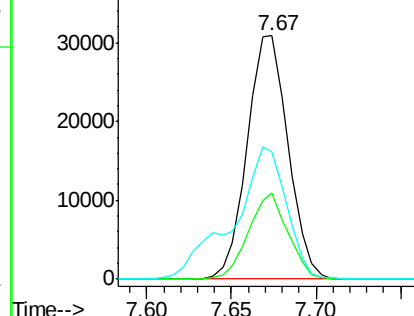
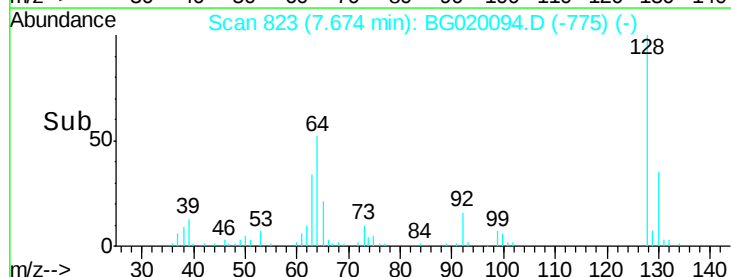
128 100

130 35.4 13.0 53.0

64 52.3 28.2 68.2



Abundance Ion 128.00 (127.70 to 128.70): BGC  
Ion 130.00 (129.70 to 130.70): BGC  
Ion 64.00 (63.70 to 64.70): BGC





#9

Benzaldehyde

Concen: 28.73 ng

RT: 7.24 min Scan# 749

Delta R.T. -0.02 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

Instrument :

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ClientSampleId :

PB87183BS

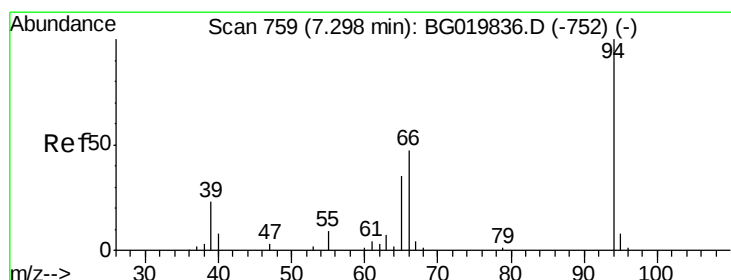
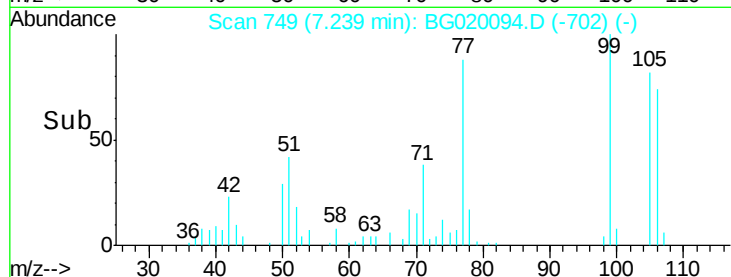
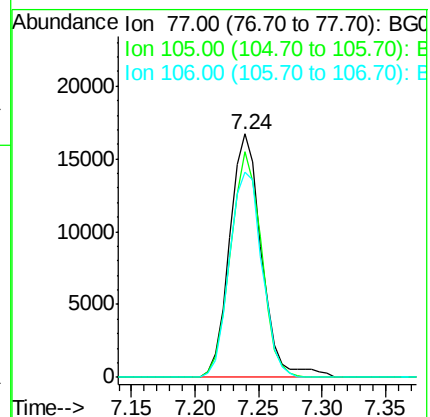
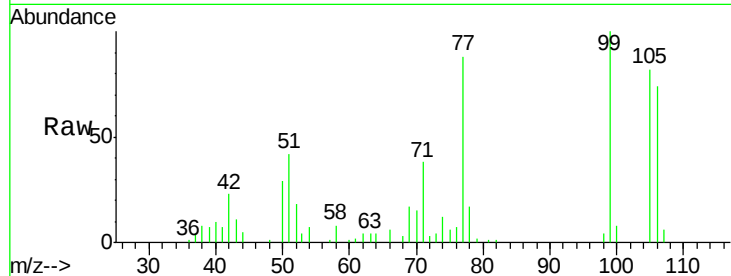
Tgt Ion: 77 Resp: 28990

Ion Ratio Lower Upper

77 100

105 92.6 77.7 117.7

106 84.1 75.8 115.8



#10

Phenol

Concen: 44.26 ng

RT: 7.29 min Scan# 757

Delta R.T. -0.01 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

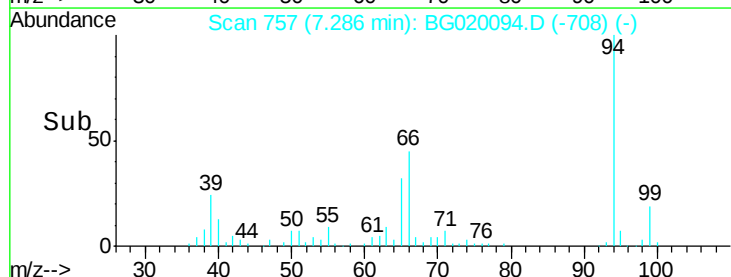
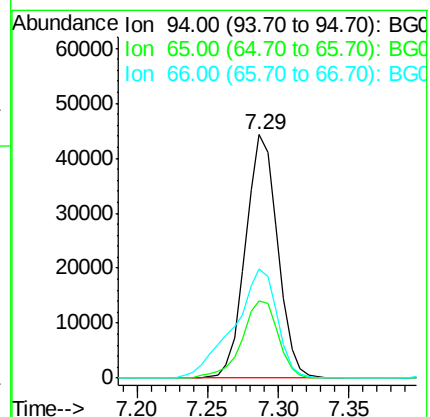
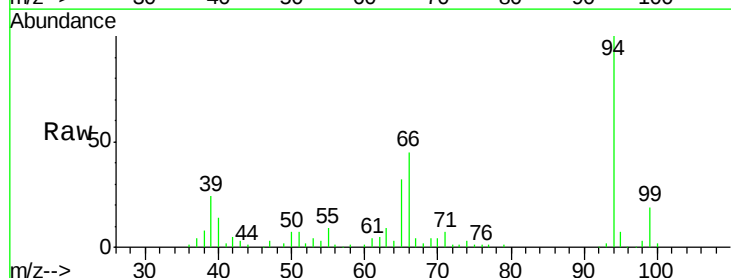
Tgt Ion: 94 Resp: 70478

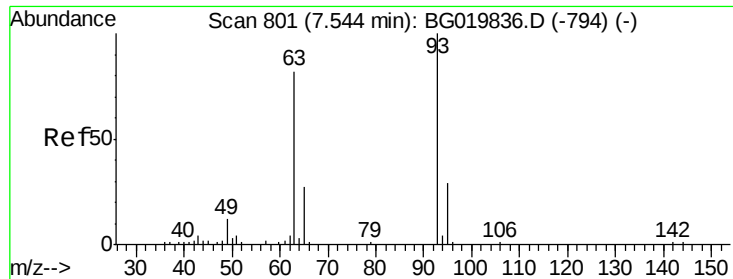
Ion Ratio Lower Upper

94 100

65 32.0 5.4 45.4

66 45.1 11.8 51.8

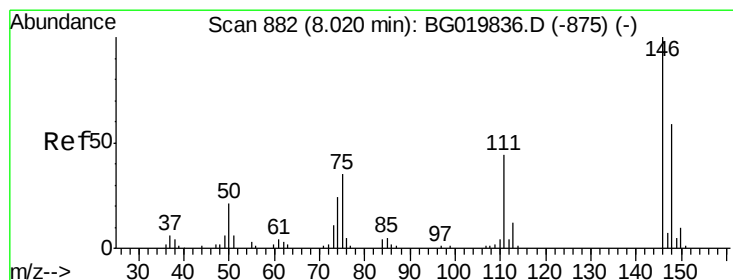
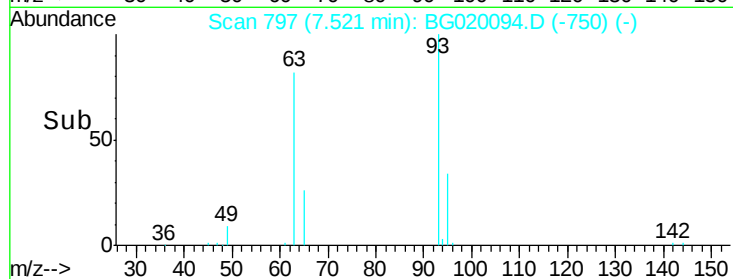
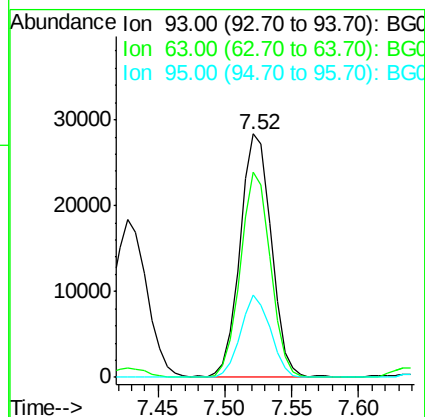
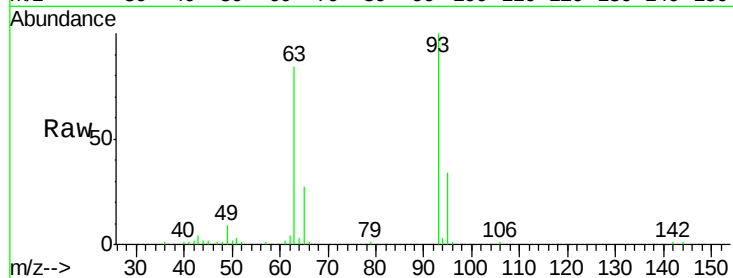




#11  
bis(2-Chloroethyl)ether  
Concen: 38.79 ng  
RT: 7.52 min Scan# 797  
Delta R.T. -0.02 min  
Lab File: BG020094.D  
Acq: 11 Dec 2015 4:07

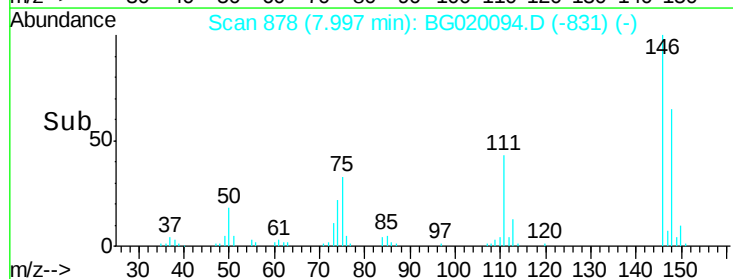
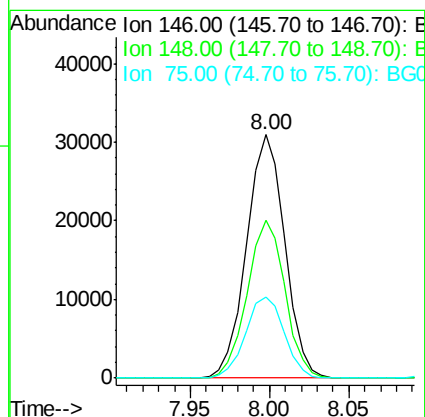
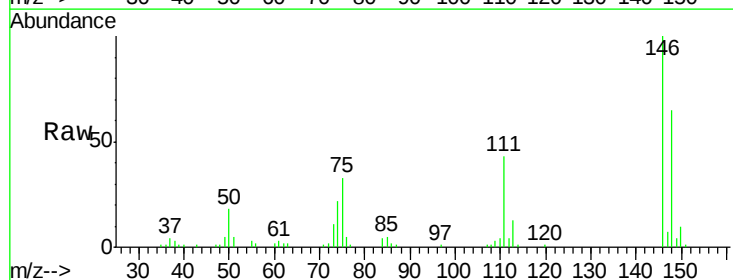
Instrument :  
BNA\_G  
ClientSampleId :  
PB87183BS

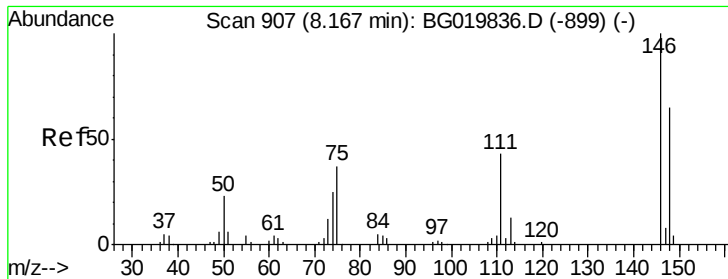
Tgt Ion: 93 Resp: 45748  
Ion Ratio Lower Upper  
93 100  
63 84.4 50.5 90.5  
95 33.6 12.2 52.2



#12  
1,3-Dichlorobenzene  
Concen: 37.36 ng  
RT: 8.00 min Scan# 878  
Delta R.T. -0.02 min  
Lab File: BG020094.D  
Acq: 11 Dec 2015 4:07

Tgt Ion: 146 Resp: 51753  
Ion Ratio Lower Upper  
146 100  
148 64.7 53.4 80.0  
75 33.2 21.1 31.7#

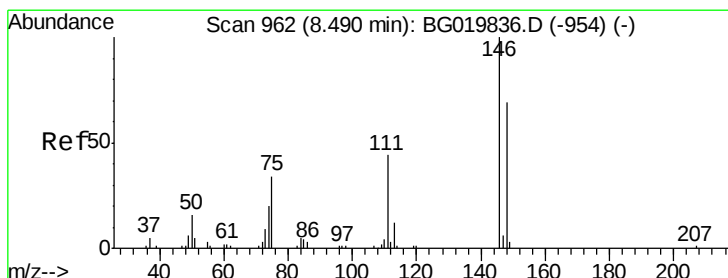
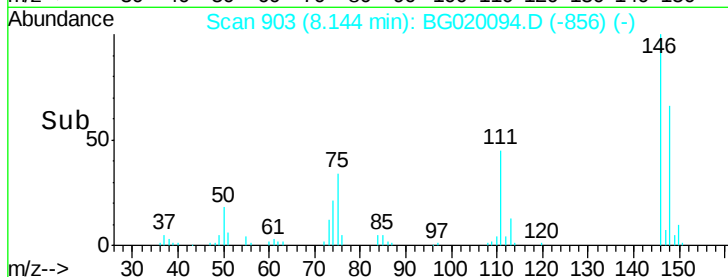
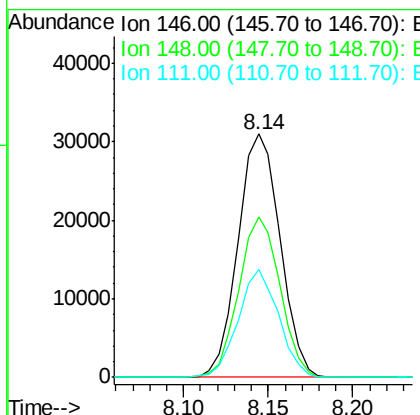
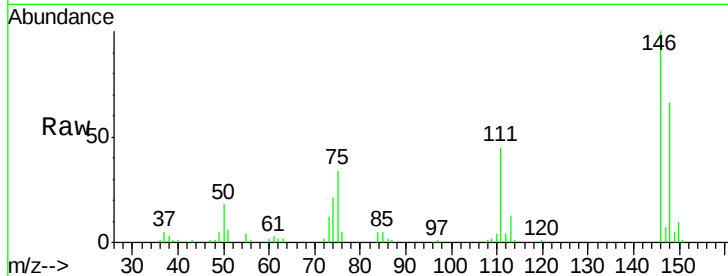




#13  
 1,4-Dichlorobenzene  
 Concen: 37.39 ng  
 RT: 8.14 min Scan# 903  
 Delta R.T. -0.02 min  
 Lab File: BG020094.D  
 Acq: 11 Dec 2015 4:07

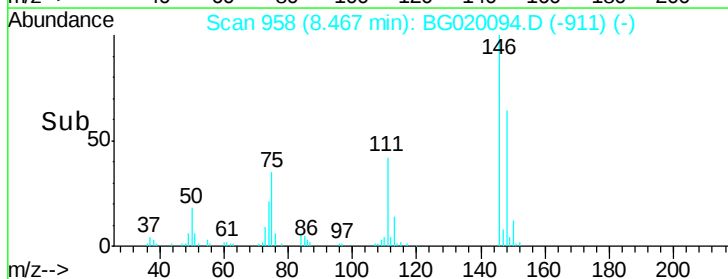
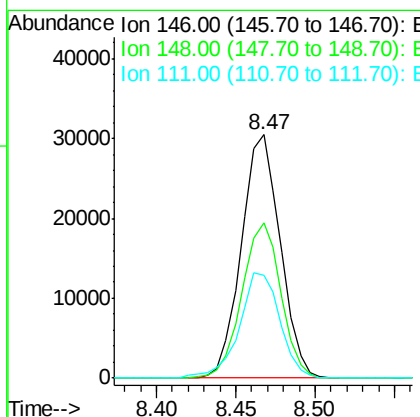
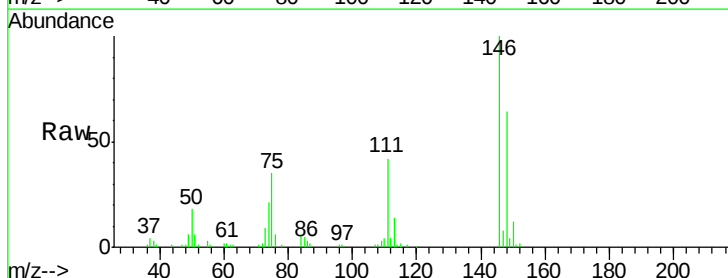
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB87183BS

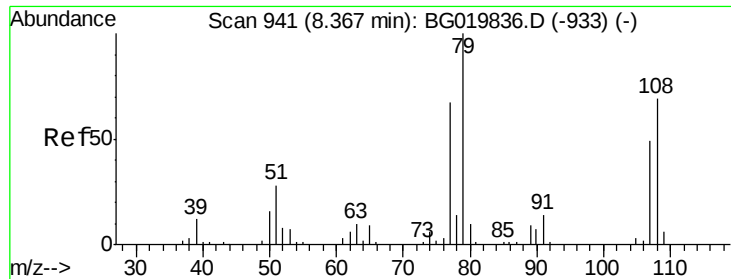
Tgt Ion:146 Resp: 53489  
 Ion Ratio Lower Upper  
 146 100  
 148 66.1 52.5 78.7  
 111 44.5 28.3 42.5#



#14  
 1,2-Dichlorobenzene  
 Concen: 38.00 ng  
 RT: 8.47 min Scan# 958  
 Delta R.T. -0.02 min  
 Lab File: BG020094.D  
 Acq: 11 Dec 2015 4:07

Tgt Ion:146 Resp: 51853  
 Ion Ratio Lower Upper  
 146 100  
 148 63.9 52.5 78.7  
 111 42.5 29.9 44.9





#15

Benzyl Alcohol

Concen: 39.43 ng

RT: 8.34 min Scan# 937

Delta R.T. -0.02 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

Instrument :

BNA\_G

ClientSampleId :

PB87183BS

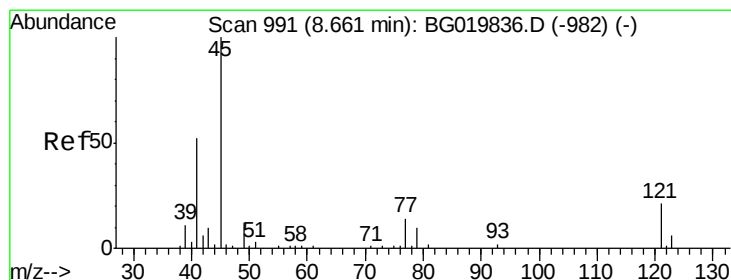
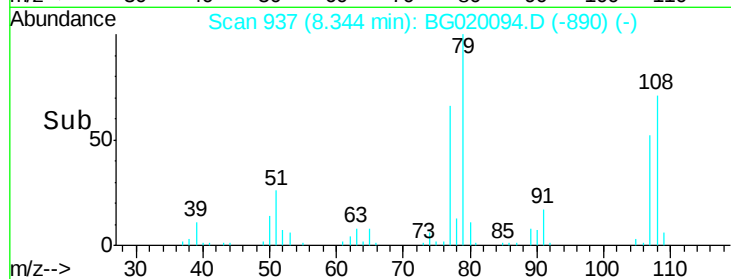
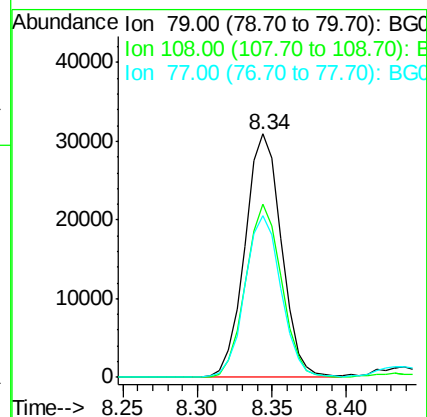
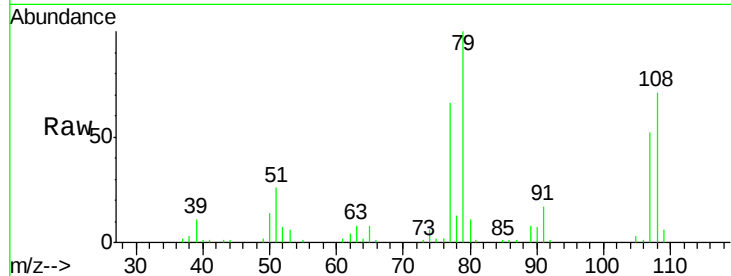
Tgt Ion: 79 Resp: 52352

Ion Ratio Lower Upper

79 100

108 71.0 65.5 98.3

77 66.5 51.3 76.9



#16

2,2'-oxybis(1-Chloropropane)

Concen: 34.81 ng

RT: 8.64 min Scan# 987

Delta R.T. -0.02 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

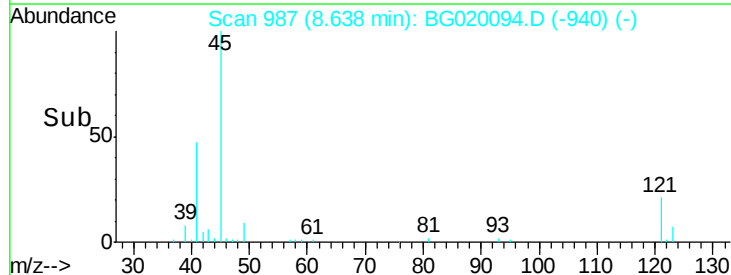
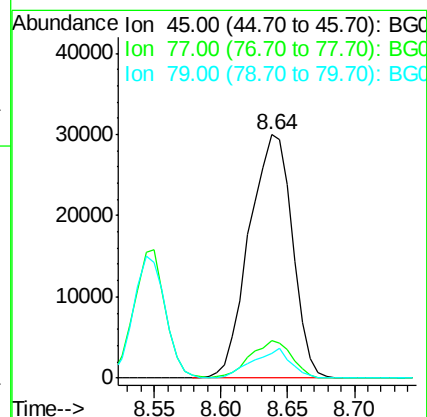
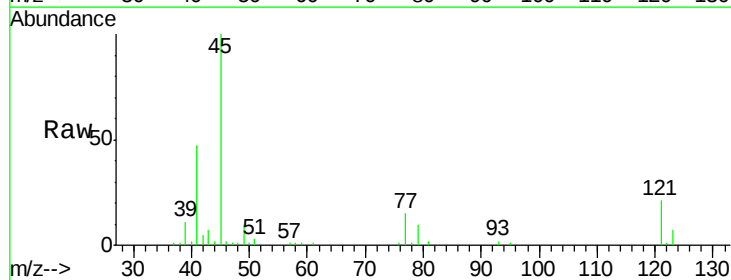
Tgt Ion: 45 Resp: 66968

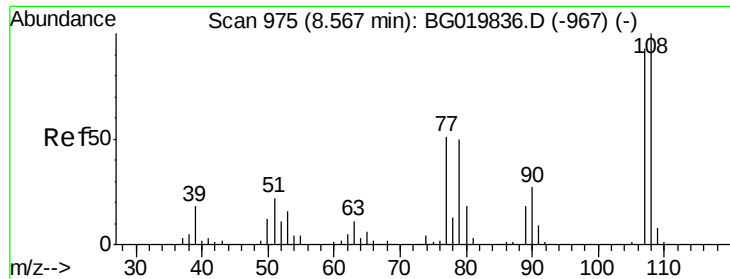
Ion Ratio Lower Upper

45 100

77 15.2 0.0 37.0

79 10.1 0.0 33.8

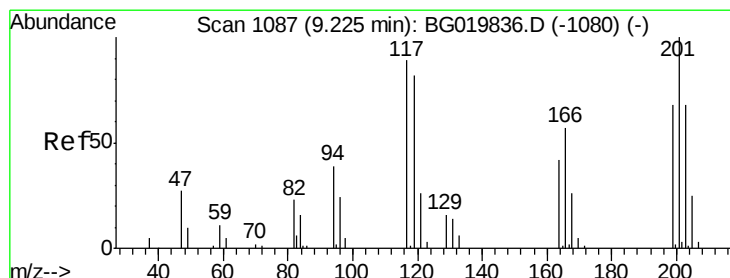
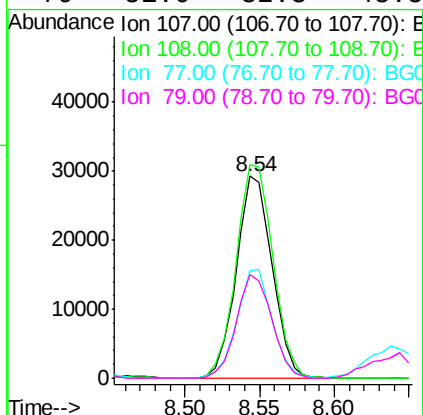
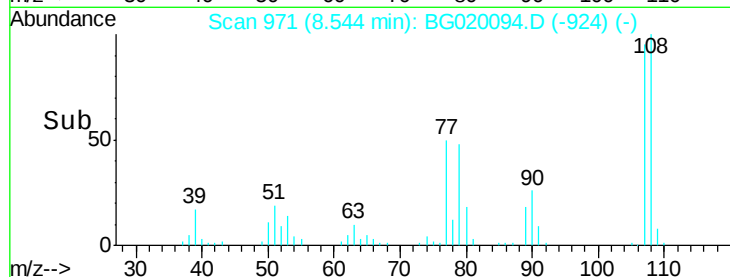
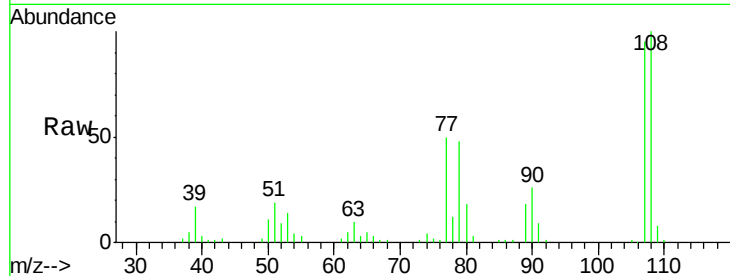




#17  
2-Methylphenol  
Concen: 43.36 ng  
RT: 8.54 min Scan# 971  
Delta R.T. -0.02 min  
Lab File: BG020094.D  
Acq: 11 Dec 2015 4:07

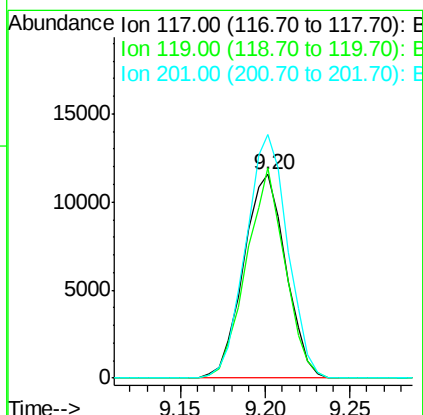
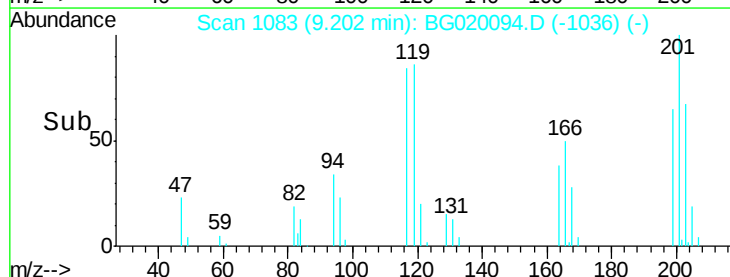
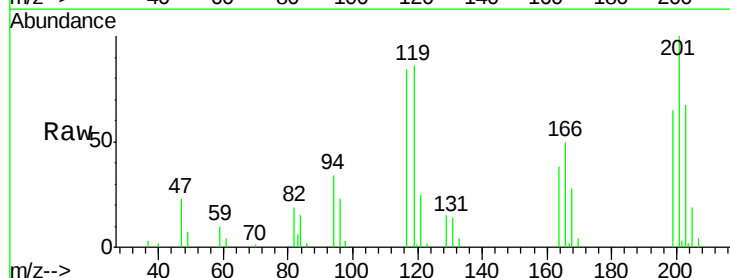
Instrument :  
BNA\_G  
ClientSampleId :  
PB87183BS

Tgt Ion:107 Resp: 48747  
Ion Ratio Lower Upper  
107 100  
108 105.7 86.5 129.7  
77 53.0 34.6 51.8#  
79 51.0 32.3 48.5#



#18  
Hexachloroethane  
Concen: 37.62 ng  
RT: 9.20 min Scan# 1083  
Delta R.T. -0.02 min  
Lab File: BG020094.D  
Acq: 11 Dec 2015 4:07

Tgt Ion:117 Resp: 20152  
Ion Ratio Lower Upper  
117 100  
119 103.2 71.7 107.5  
201 123.4 90.9 136.3

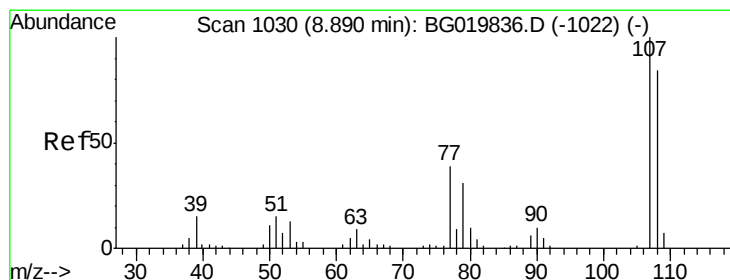
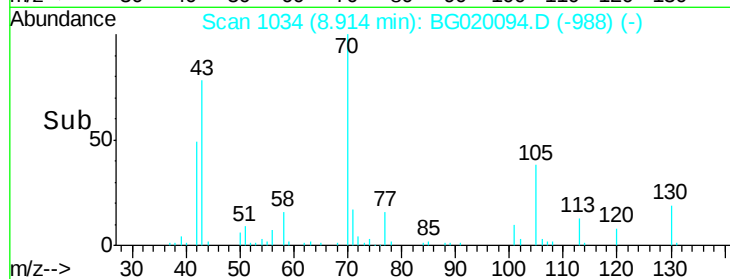
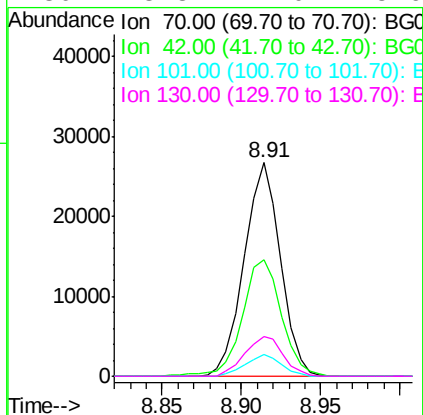
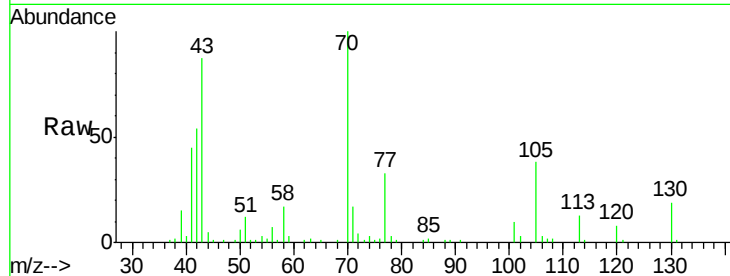




#19  
n-Nitroso-di-n-propylamine  
Concen: 35.54 ng  
RT: 8.91 min Scan# 1034  
Delta R.T. -0.03 min  
Lab File: BG020094.D  
Acq: 11 Dec 2015 4:07

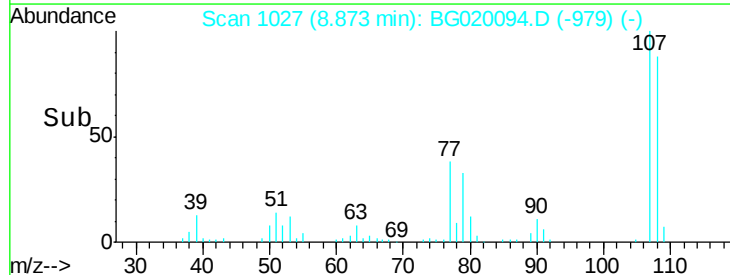
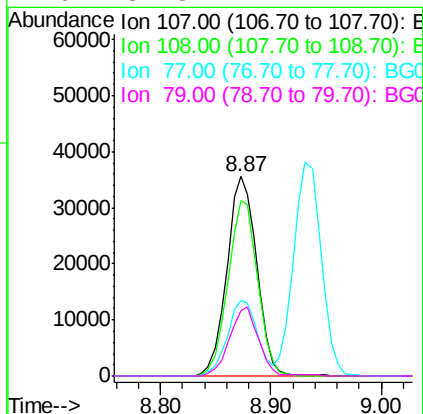
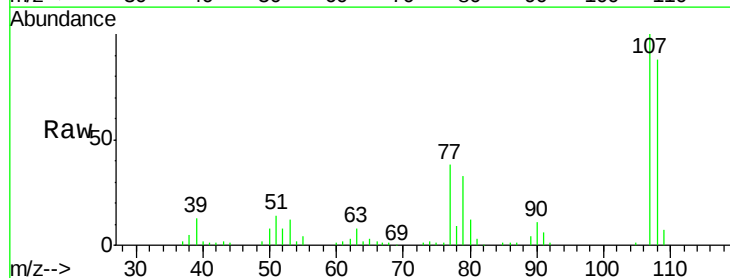
Instrument :  
BNA\_G  
ClientSampleId :  
PB87183BS

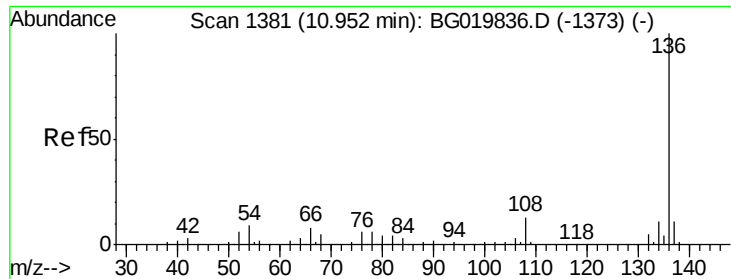
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 70    | Resp: | 42406 |
| Ion      | Ratio | Lower | Upper |
| 70       | 100   |       |       |
| 42       | 54.5  | 40.6  | 60.8  |
| 101      | 10.3  | 8.6   | 13.0  |
| 130      | 18.8  | 17.0  | 25.6  |



#20  
3+4-Methylphenols  
Concen: 42.60 ng  
RT: 8.87 min Scan# 1027  
Delta R.T. -0.02 min  
Lab File: BG020094.D  
Acq: 11 Dec 2015 4:07

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 107   | Resp: | 67439 |
| Ion      | Ratio | Lower | Upper |
| 107      | 100   |       |       |
| 108      | 87.9  | 72.2  | 112.2 |
| 77       | 38.1  | 13.4  | 53.4  |
| 79       | 32.8  | 7.2   | 47.2  |

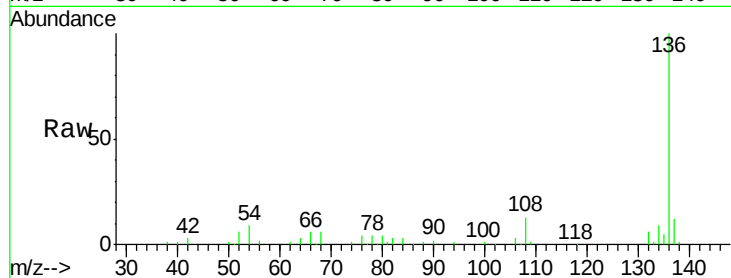




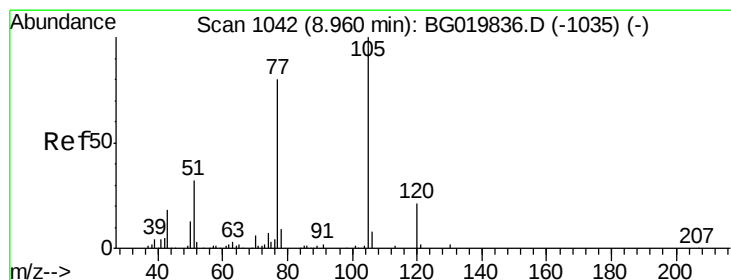
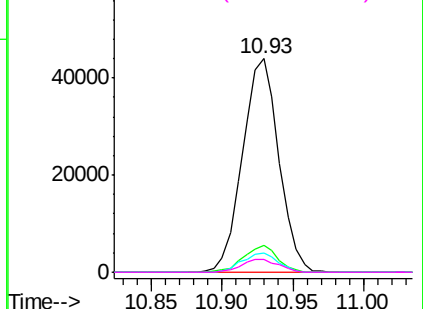
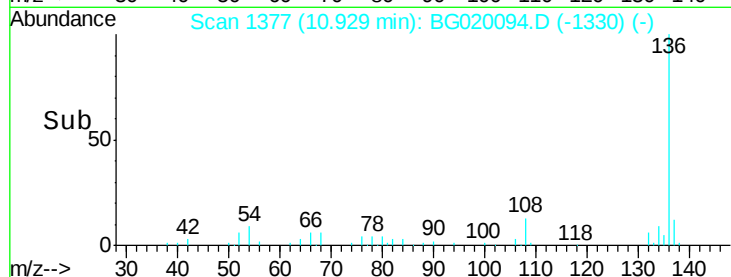
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.93 min Scan# 1377  
Delta R.T. -0.02 min  
Lab File: BG020094.D  
Acq: 11 Dec 2015 4:07

Instrument :  
BNA\_G  
ClientSampleId :  
PB87183BS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 136   | Resp: | 79116 |
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 12.5  | 8.6   | 12.8  |
| 54        | 8.7   | 5.4   | 8.2#  |
| 68        | 5.9   | 5.3   | 7.9   |

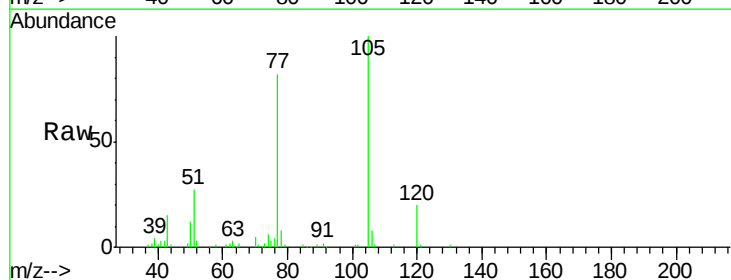


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

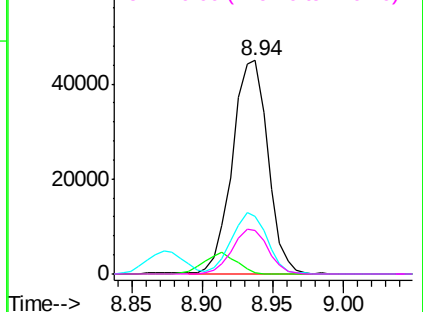
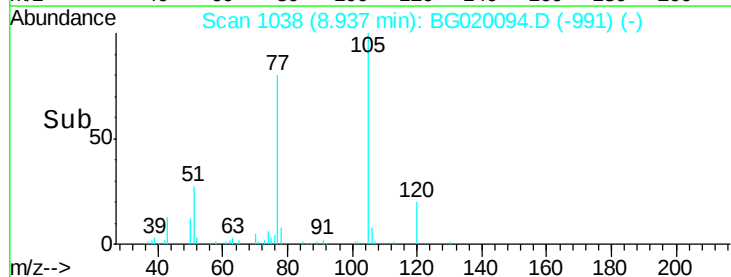


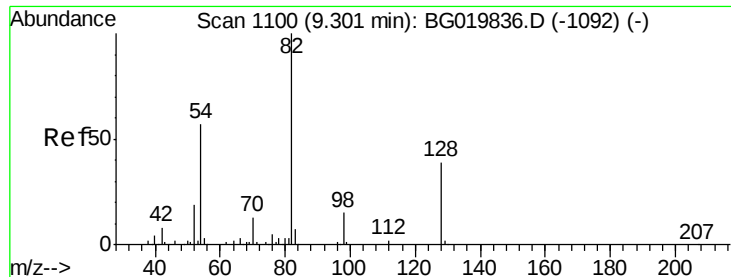
#22  
Acetophenone  
Concen: 36.37 ng  
RT: 8.94 min Scan# 1038  
Delta R.T. -0.02 min  
Lab File: BG020094.D  
Acq: 11 Dec 2015 4:07

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 78883 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 71        | 0.9   | 2.1   | 3.1#  |
| 51        | 27.1  | 17.8  | 26.8# |
| 120       | 20.1  | 17.7  | 26.5  |



Abundance Ion 105.00 (104.70 to 105.70): E  
Ion 71.00 (70.70 to 71.70): BGC  
Ion 51.00 (50.70 to 51.70): BGC  
Ion 120.00 (119.70 to 120.70): E

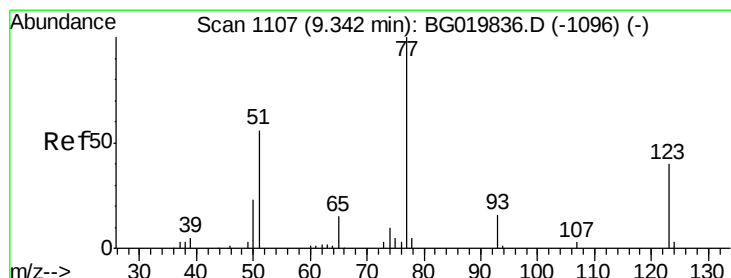
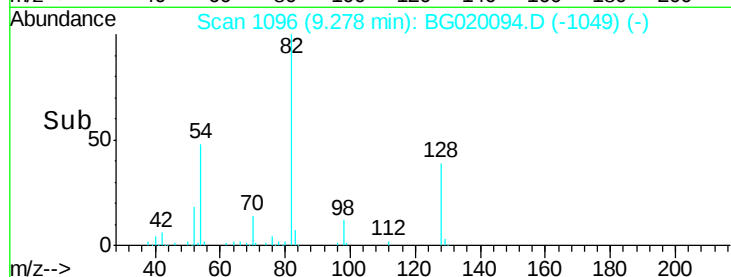
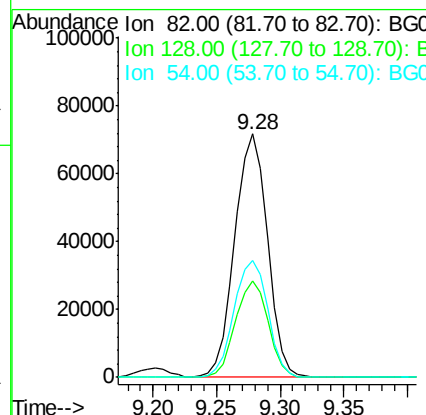
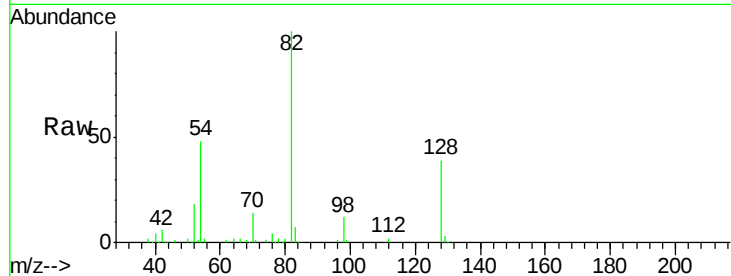




#23  
Nitrobenzene-d5  
Concen: 82.89 ng  
RT: 9.28 min Scan# 1096  
Delta R.T. -0.02 min  
Lab File: BG020094.D  
Acq: 11 Dec 2015 4:07

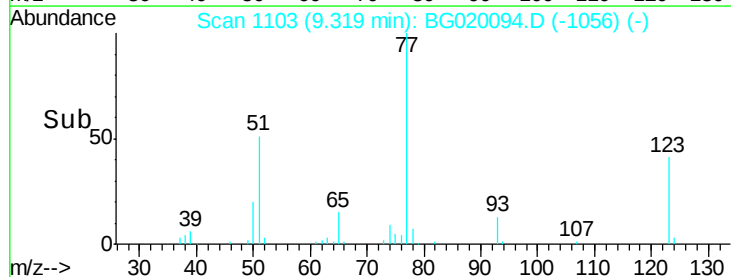
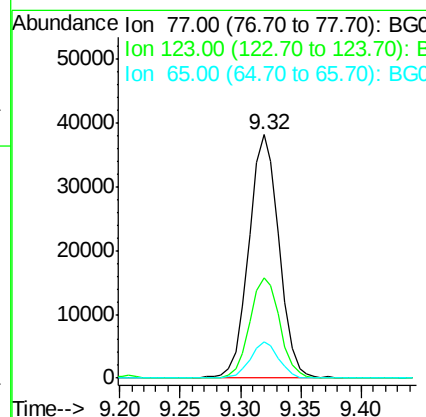
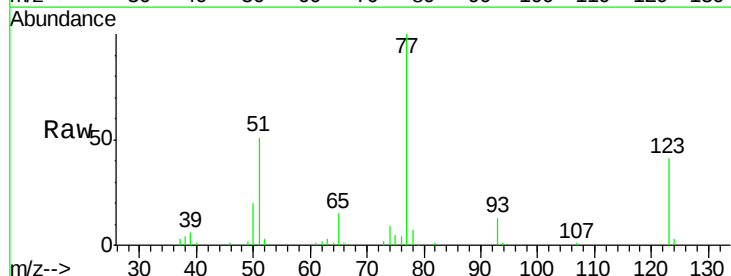
Instrument :  
BNA\_G  
ClientSampleId :  
PB87183BS

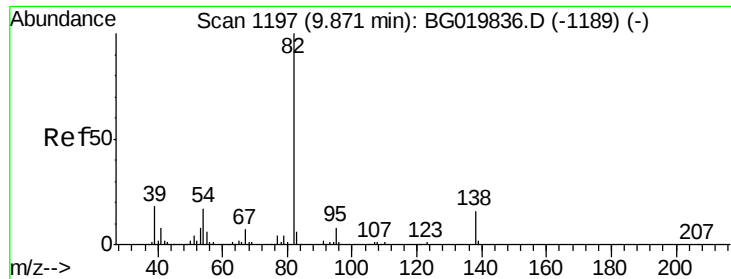
Tgt Ion: 82 Resp: 128490  
Ion Ratio Lower Upper  
82 100  
128 39.4 36.7 55.1  
54 48.0 33.8 50.8



#24  
Nitrobenzene  
Concen: 39.50 ng  
RT: 9.32 min Scan# 1103  
Delta R.T. -0.02 min  
Lab File: BG020094.D  
Acq: 11 Dec 2015 4:07

Tgt Ion: 77 Resp: 66420  
Ion Ratio Lower Upper  
77 100  
123 41.2 38.2 57.2  
65 15.1 10.6 16.0

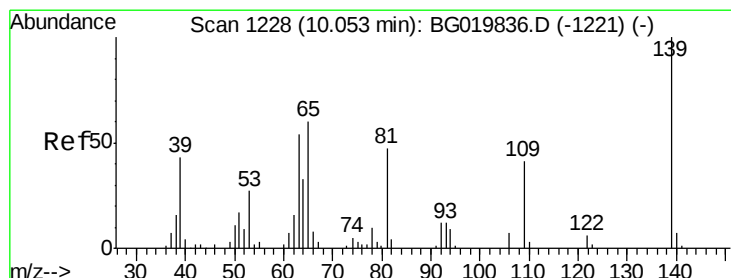
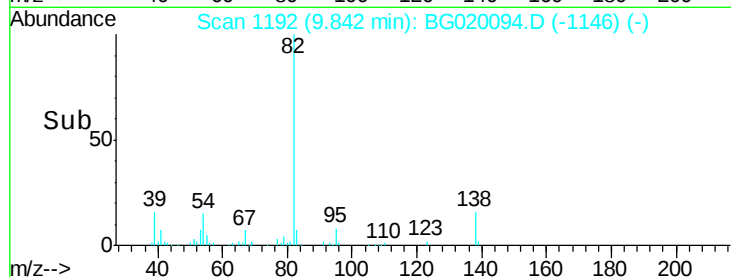
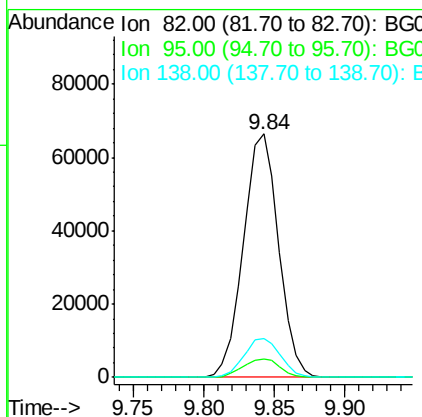
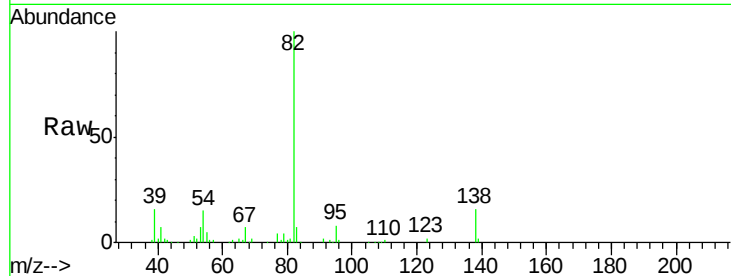




#25  
Isophorone  
Concen: 34.87 ng  
RT: 9.84 min Scan# 1192  
Delta R.T. -0.03 min  
Lab File: BG020094.D  
Acq: 11 Dec 2015 4:07

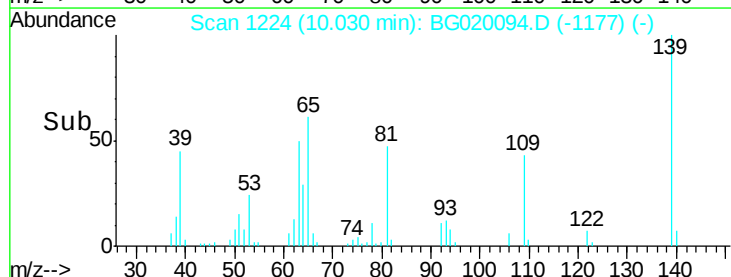
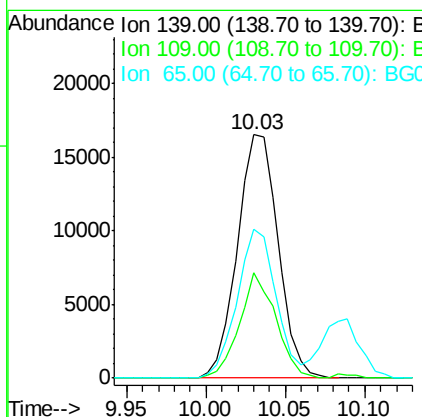
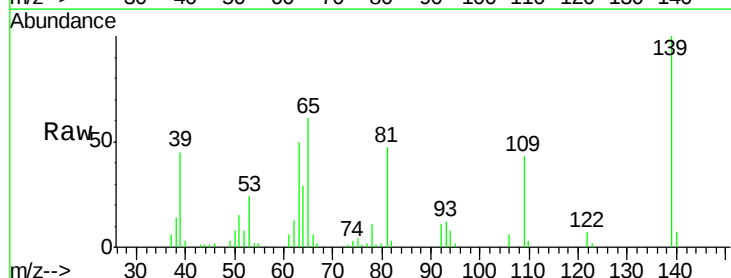
Instrument :  
BNA\_G  
ClientSampleId :  
PB87183BS

Tgt Ion: 82 Resp: 115899  
Ion Ratio Lower Upper  
82 100  
95 7.7 5.2 7.8  
138 16.0 14.4 21.6



#26  
2-Nitrophenol  
Concen: 45.38 ng  
RT: 10.03 min Scan# 1224  
Delta R.T. -0.02 min  
Lab File: BG020094.D  
Acq: 11 Dec 2015 4:07

Tgt Ion: 139 Resp: 29470  
Ion Ratio Lower Upper  
139 100  
109 43.4 20.1 30.1#  
65 61.1 34.1 51.1#

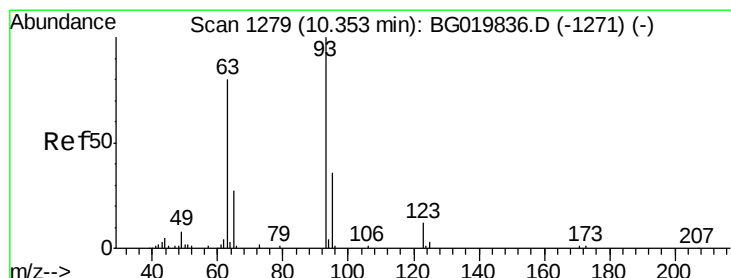
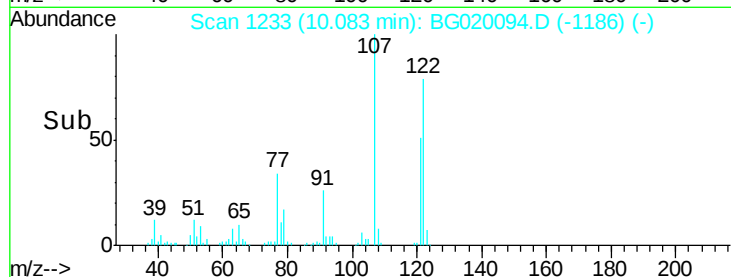
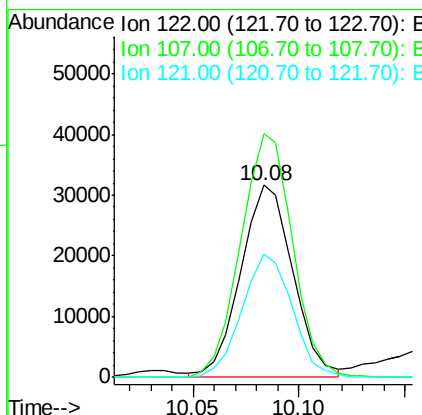
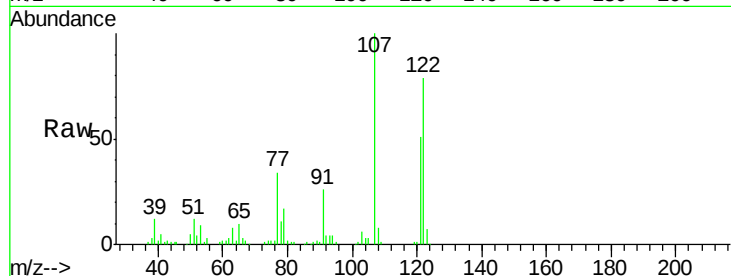




#27  
 2,4-Dimethylphenol  
 Concen: 39.92 ng  
 RT: 10.08 min Scan# 1233  
 Delta R.T. -0.02 min  
 Lab File: BG020094.D  
 Acq: 11 Dec 2015 4:07

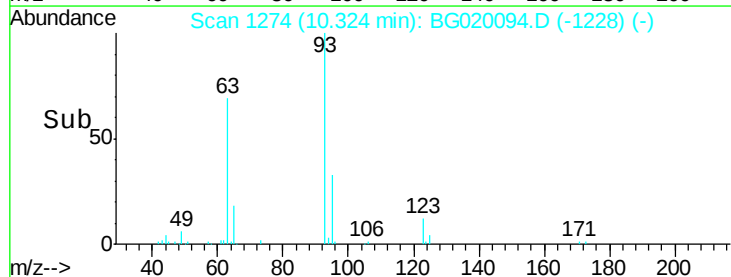
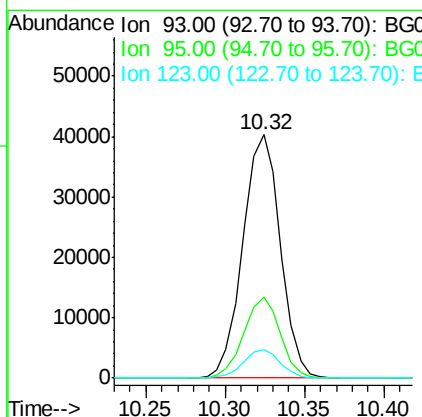
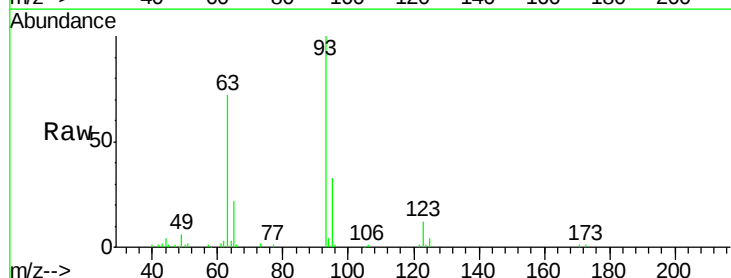
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB87183BS

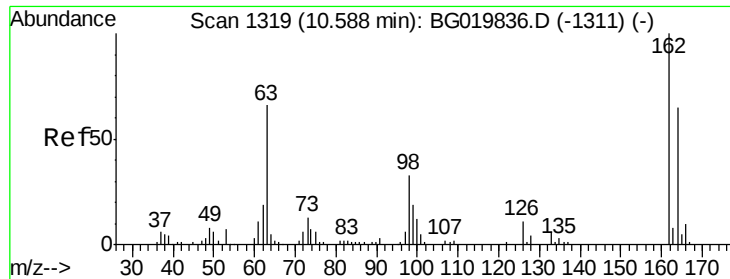
Tgt Ion:122 Resp: 53983  
 Ion Ratio Lower Upper  
 122 100  
 107 126.6 91.6 137.4  
 121 64.1 47.3 70.9



#28  
 bis(2-Chloroethoxy)methane  
 Concen: 40.75 ng  
 RT: 10.32 min Scan# 1274  
 Delta R.T. -0.03 min  
 Lab File: BG020094.D  
 Acq: 11 Dec 2015 4:07

Tgt Ion: 93 Resp: 66181  
 Ion Ratio Lower Upper  
 93 100  
 95 33.1 25.7 38.5  
 123 11.8 8.6 12.8

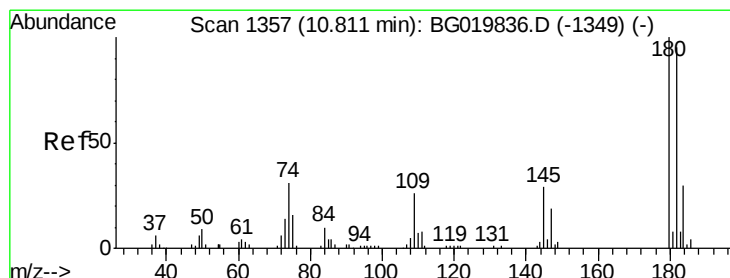
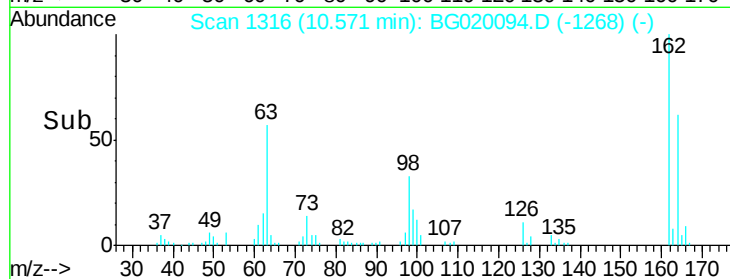
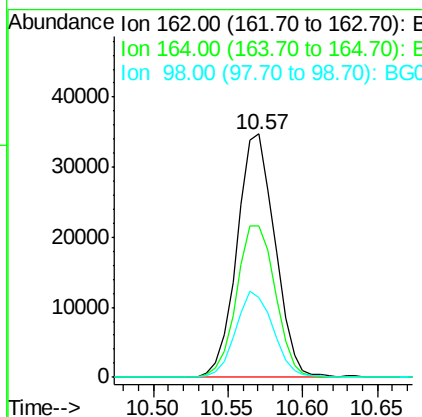
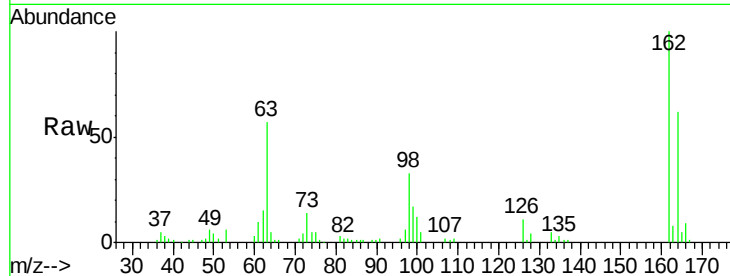




#29  
2,4-Dichlorophenol  
Concen: 44.37 ng  
RT: 10.57 min Scan# 1316  
Delta R.T. -0.02 min  
Lab File: BG020094.D  
Acq: 11 Dec 2015 4:07

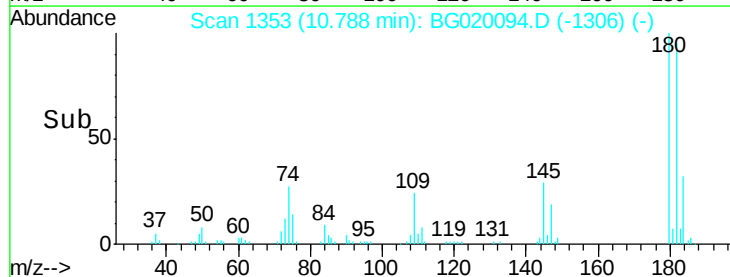
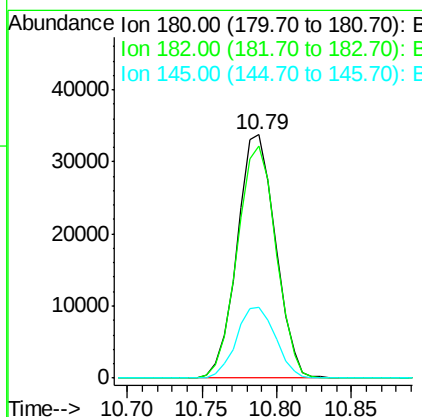
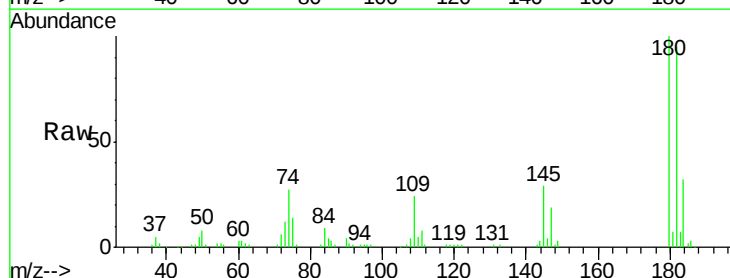
Instrument :  
BNA\_G  
ClientSampleId :  
PB87183BS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 164     | 62.3  | 42.3  | 82.3  |
| 98      | 32.6  | 11.5  | 51.5  |



#30  
1,2,4-Trichlorobenzene  
Concen: 38.58 ng  
RT: 10.79 min Scan# 1353  
Delta R.T. -0.02 min  
Lab File: BG020094.D  
Acq: 11 Dec 2015 4:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 95.1  | 79.7  | 119.5 |
| 145     | 29.3  | 22.0  | 33.0  |





#31

Naphthalene

Concen: 39.04 ng

RT: 10.98 min Scan# 1385

Delta R.T. -0.03 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

Instrument :

BNA\_G

ClientSampleId :

PB87183BS

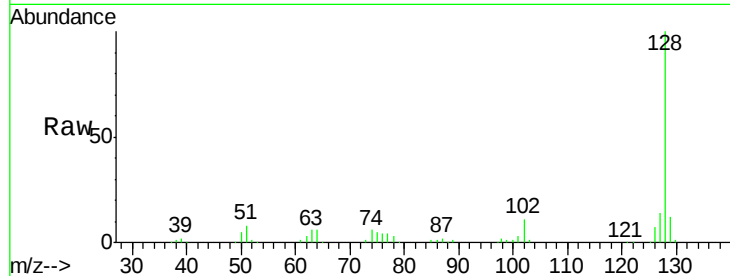
Tgt Ion:128 Resp: 165473

Ion Ratio Lower Upper

128 100

129 12.0 8.5 12.7

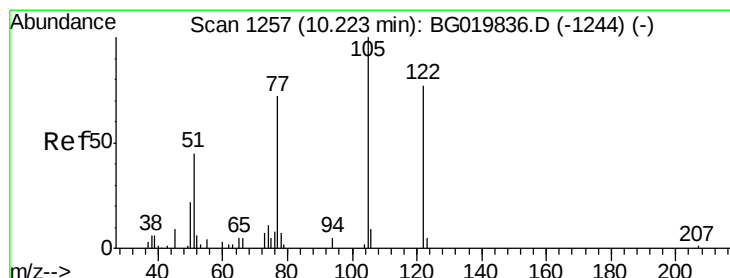
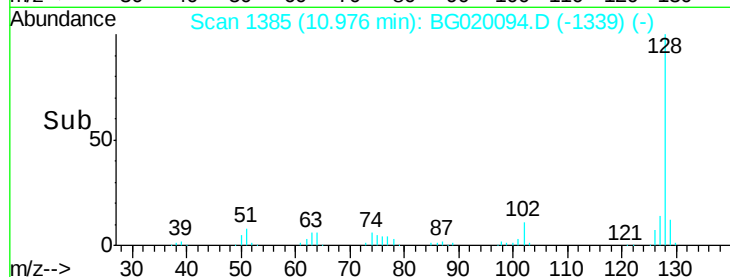
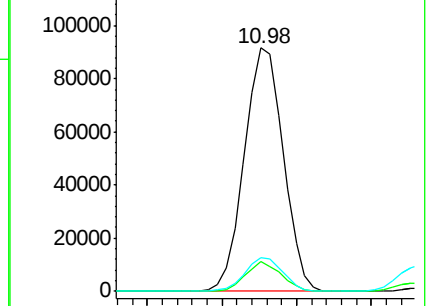
127 13.8 10.6 16.0



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 43.50 ng

RT: 10.21 min Scan# 1254

Delta R.T. -0.02 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

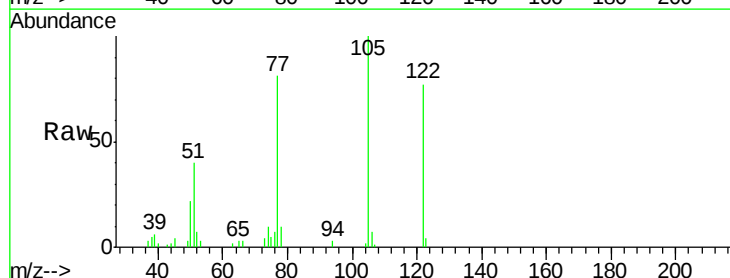
Tgt Ion:122 Resp: 39060

Ion Ratio Lower Upper

122 100

105 130.1 103.8 143.8

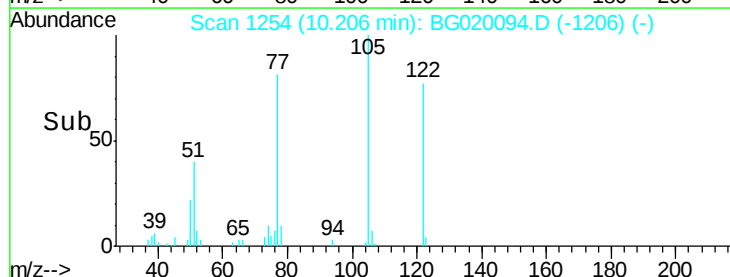
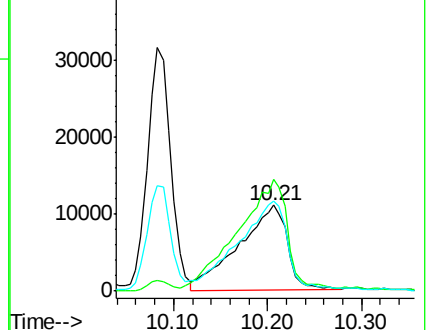
77 105.6 68.8 108.8

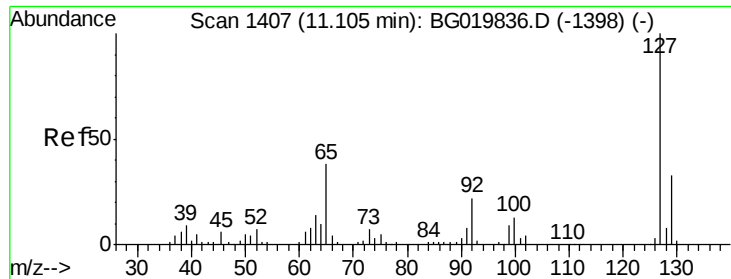


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BG

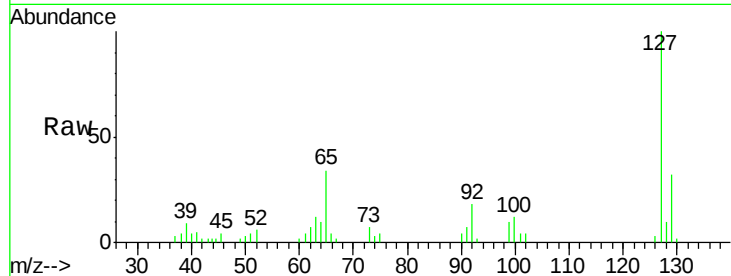




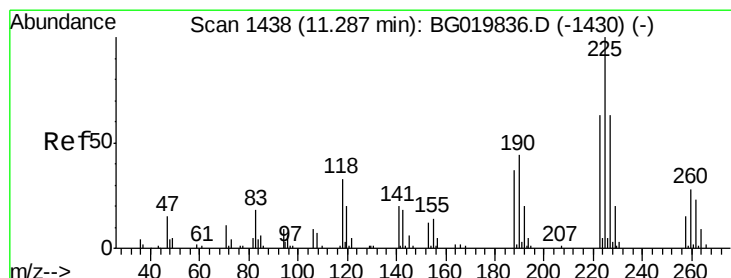
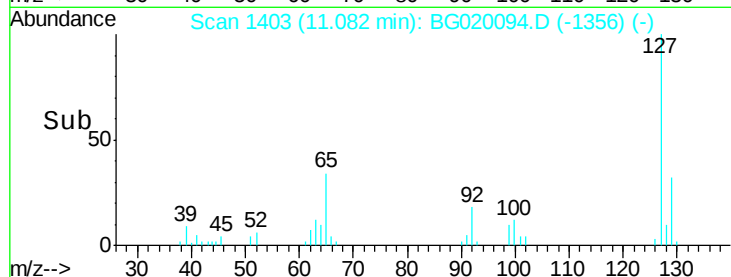
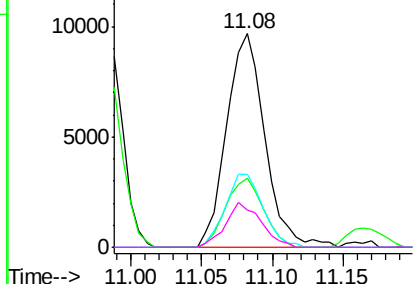
#33  
4-Chloroaniline  
Concen: 9.79 ng  
RT: 11.08 min Scan# 1403  
Delta R.T. -0.02 min  
Lab File: BG020094.D  
Acq: 11 Dec 2015 4:07

Instrument :  
BNA\_G  
ClientSampleId :  
PB87183BS

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 127   | Resp: | 18280 |
| Ion      | Ratio | Lower | Upper |
| 127      | 100   |       |       |
| 129      | 32.3  | 24.6  | 37.0  |
| 65       | 34.1  | 22.6  | 33.8# |
| 92       | 17.5  | 15.1  | 22.7  |

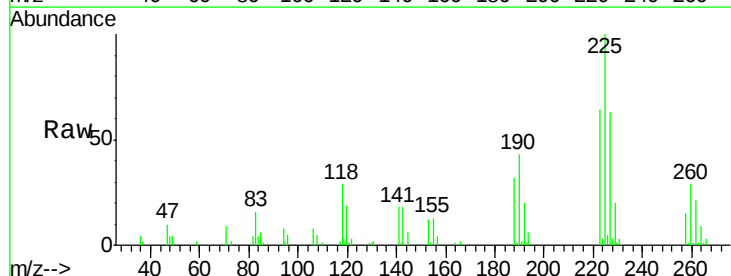


Abundance Ion 127.00 (126.70 to 127.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 65.00 (64.70 to 65.70): BGC  
Ion 92.00 (91.70 to 92.70): BGC

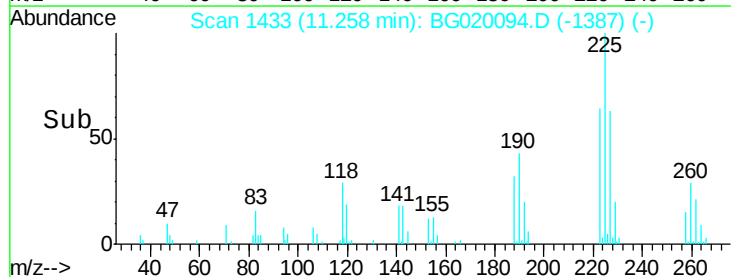
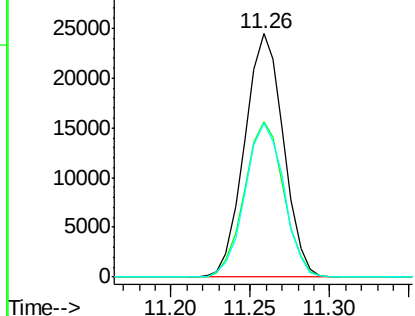


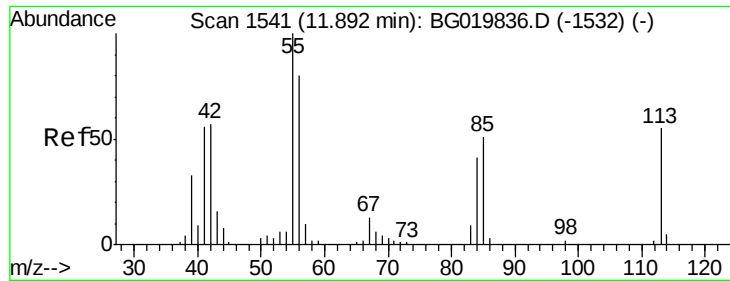
#34  
Hexachlorobutadiene  
Concen: 36.09 ng  
RT: 11.26 min Scan# 1433  
Delta R.T. -0.03 min  
Lab File: BG020094.D  
Acq: 11 Dec 2015 4:07

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 41565 |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 63.6  | 51.0  | 76.4  |
| 227      | 66.2  | 51.8  | 77.8  |



Abundance Ion 225.00 (224.70 to 225.70): E  
Ion 223.00 (222.70 to 223.70): E  
Ion 227.00 (226.70 to 227.70): E





#35

Caprolactam

Concen: 31.54 ng

RT: 11.85 min Scan# 1534

Delta R.T. -0.04 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

Instrument :

BNA\_G

ClientSampleId :

PB87183BS

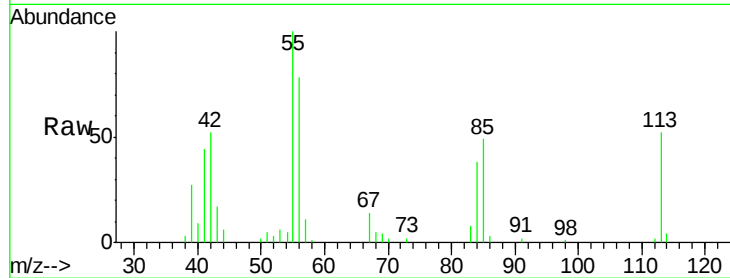
Tgt Ion:113 Resp: 16220

Ion Ratio Lower Upper

113 100

55 192.3 135.0 175.0#

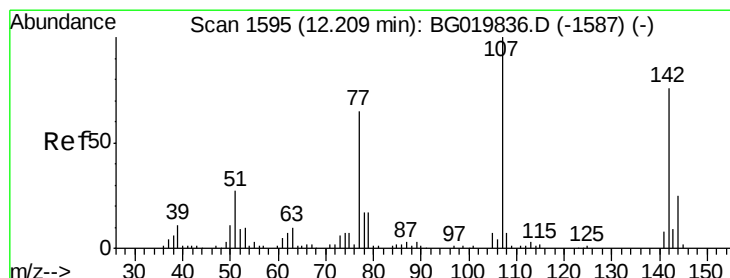
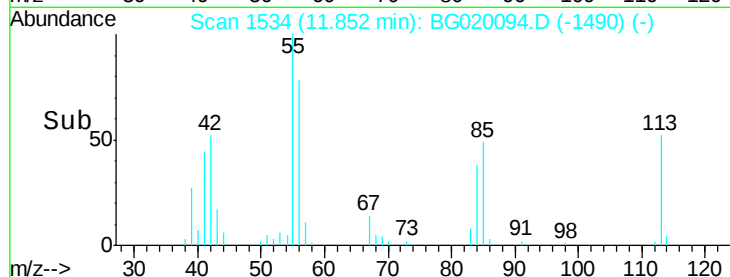
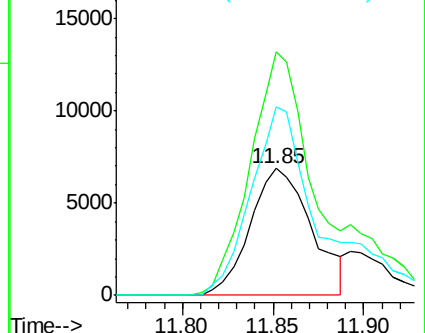
56 149.1 83.4 123.4#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BGC

Ion 56.00 (55.70 to 56.70): BGC



#36

4-Chloro-3-methylphenol

Concen: 40.79 ng

RT: 12.19 min Scan# 1592

Delta R.T. -0.02 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

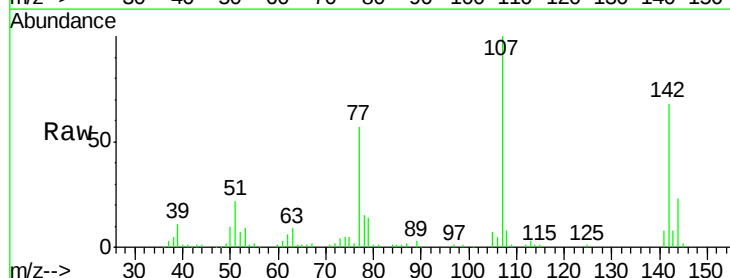
Tgt Ion:107 Resp: 70191

Ion Ratio Lower Upper

107 100

144 22.8 20.6 31.0

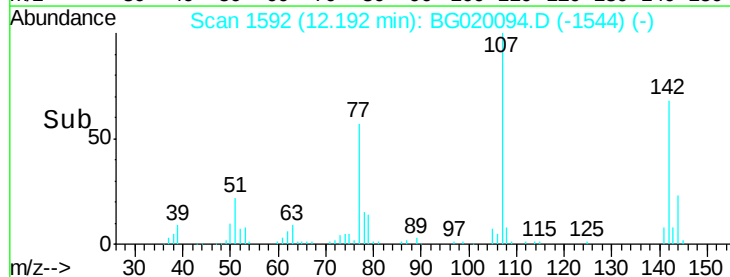
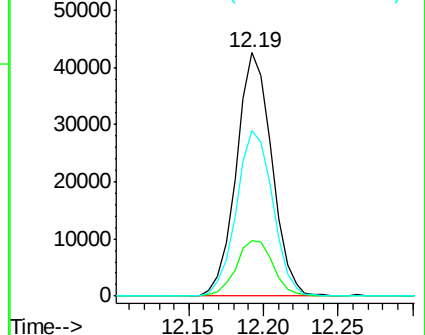
142 68.2 62.6 93.8



Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E

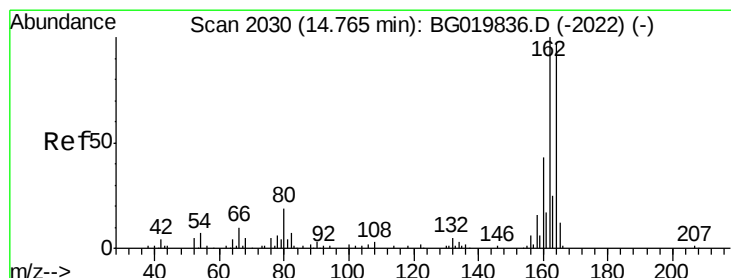
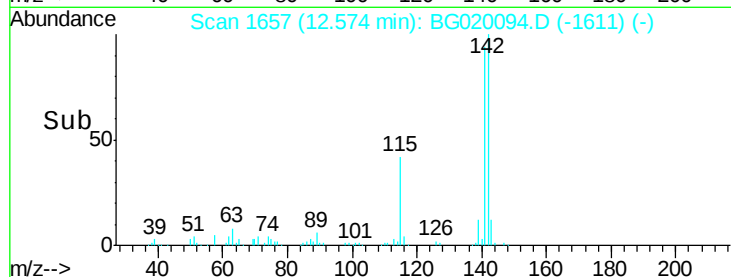
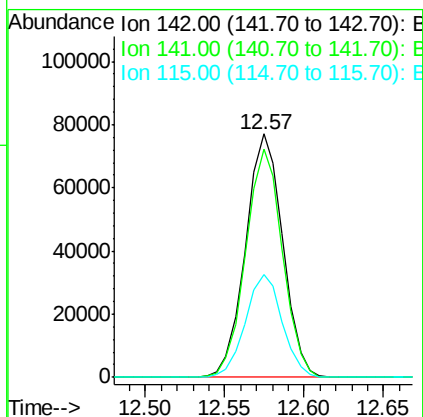
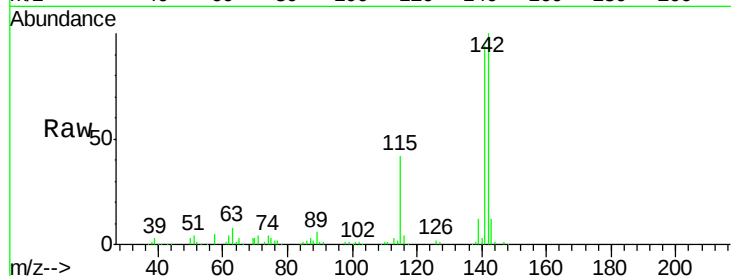




#37  
2-Methylnaphthalene  
Concen: 40.32 ng  
RT: 12.57 min Scan# 1657  
Delta R.T. -0.03 min  
Lab File: BG020094.D  
Acq: 11 Dec 2015 4:07

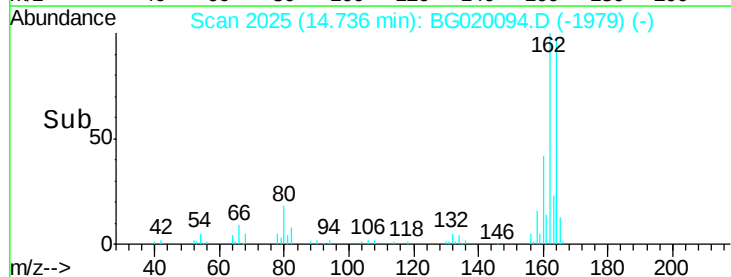
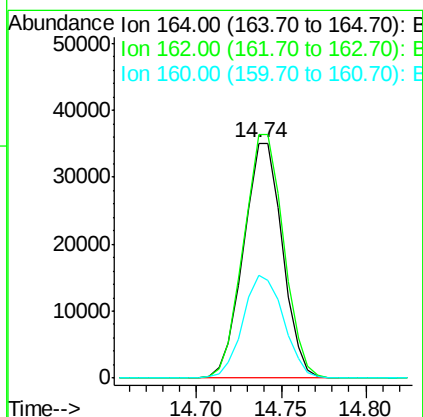
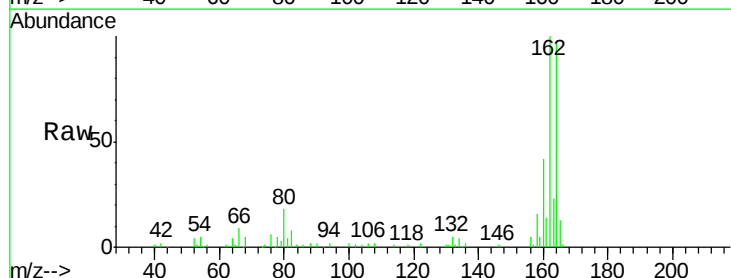
Instrument :  
BNA\_G  
ClientSampleId :  
PB87183BS

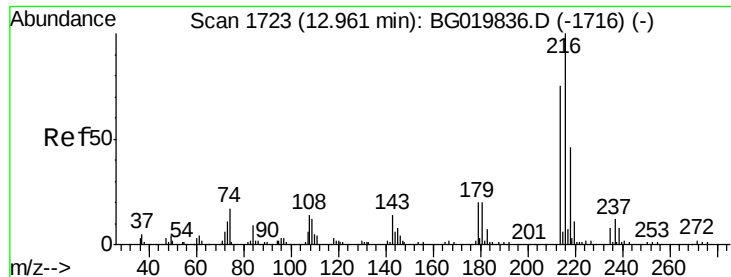
Tgt Ion:142 Resp: 125228  
Ion Ratio Lower Upper  
142 100  
141 93.6 74.6 112.0  
115 42.4 27.4 41.0#



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.74 min Scan# 2025  
Delta R.T. -0.03 min  
Lab File: BG020094.D  
Acq: 11 Dec 2015 4:07

Tgt Ion:164 Resp: 56423  
Ion Ratio Lower Upper  
164 100  
162 103.4 78.8 118.2  
160 43.6 36.4 54.6





#39

1,2,4,5-Tetrachlorobenzene

Concen: 38.43 ng

RT: 12.94 min Scan# 1719

Delta R.T. -0.02 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

Instrument :

BNA\_G

ClientSampleId :

PB87183BS

Tgt Ion:216 Resp: 82290

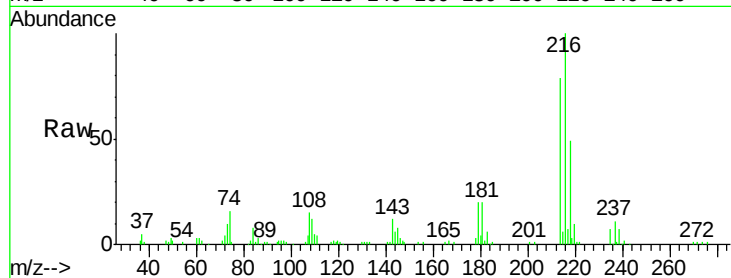
Ion Ratio Lower Upper

216 100

214 80.0 62.5 93.7

179 19.4 15.6 23.4

108 16.9 13.3 19.9

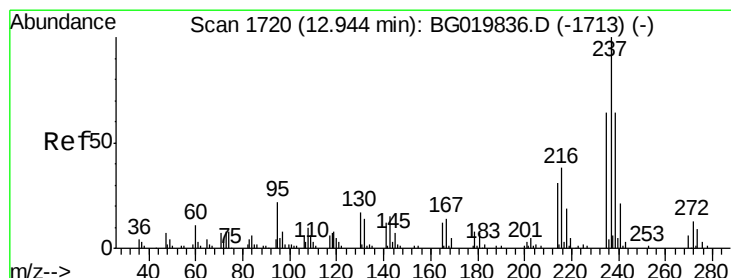
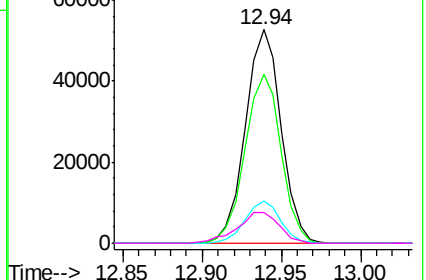
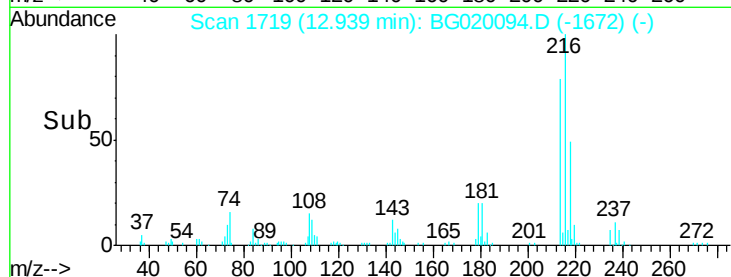


Abundance Ion 216.00 (215.70 to 216.70): E

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: 63.27 ng

RT: 12.92 min Scan# 1716

Delta R.T. -0.02 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

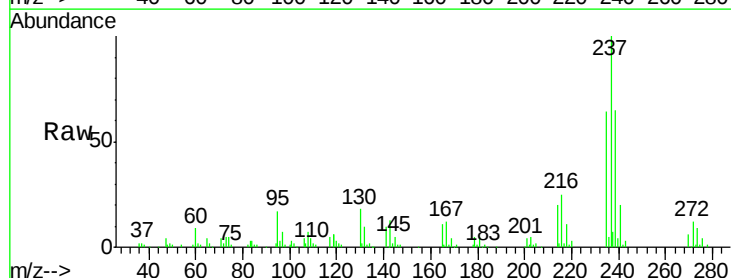
Tgt Ion:237 Resp: 77250

Ion Ratio Lower Upper

237 100

235 64.3 44.6 84.6

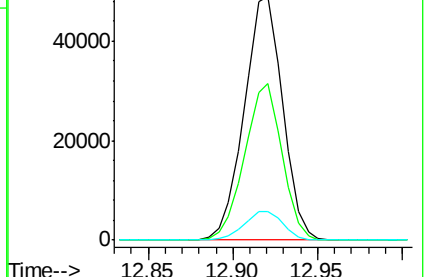
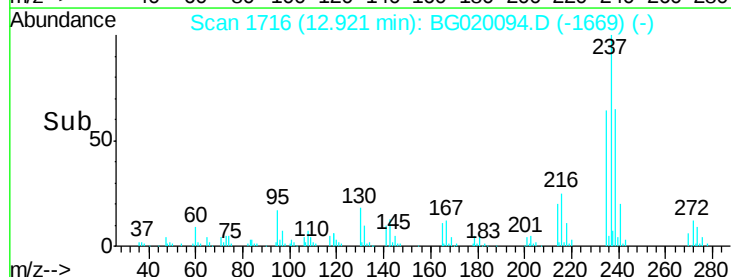
272 11.5 0.0 32.8



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

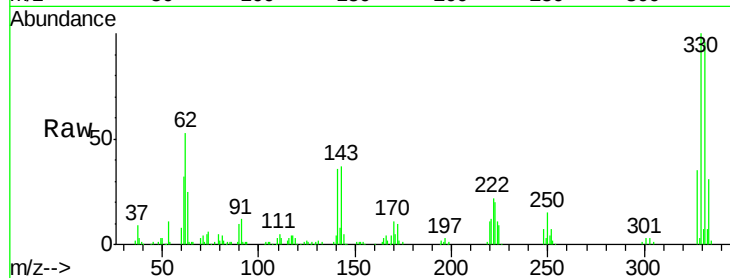




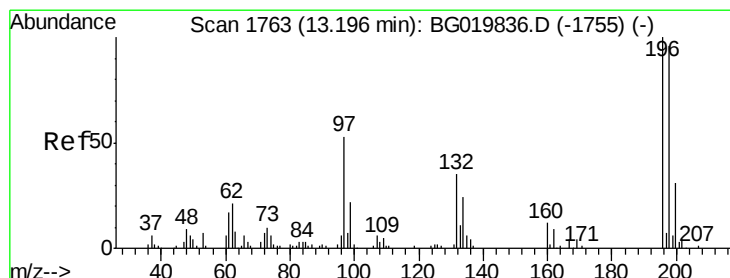
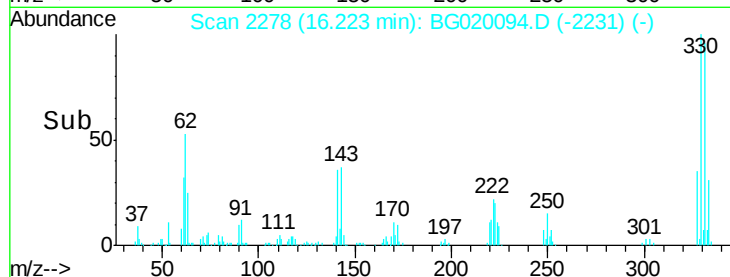
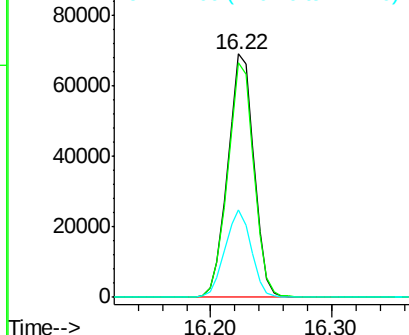
#41  
 2,4,6-Tribromophenol  
 Concen: 120.59 ng  
 RT: 16.22 min Scan# 2278  
 Delta R.T. -0.02 min  
 Lab File: BG020094.D  
 Acq: 11 Dec 2015 4:07

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB87183BS

Tgt Ion:330 Resp: 104103  
 Ion Ratio Lower Upper  
 330 100  
 332 95.9 78.1 117.1  
 141 35.5 28.2 42.2

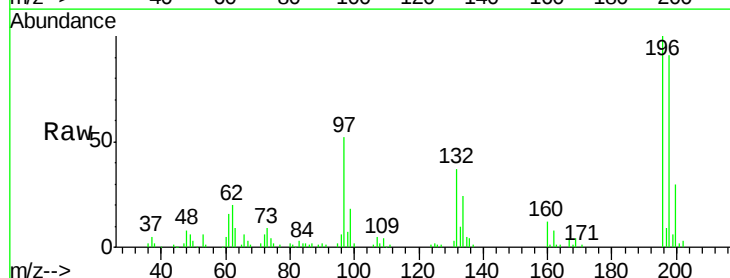


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

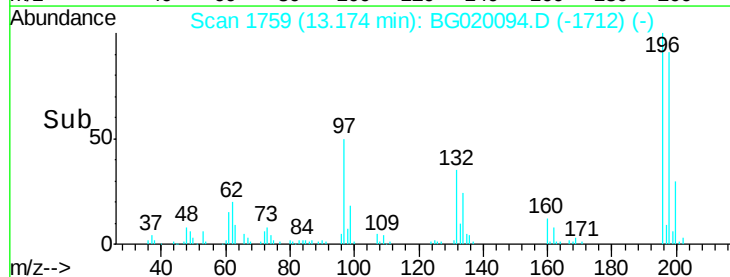
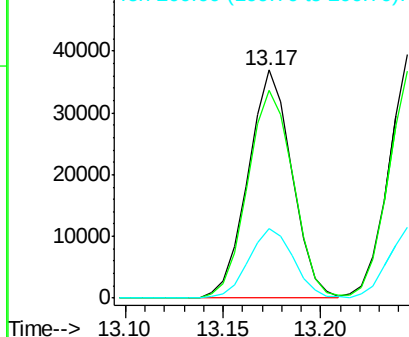


#42  
 2,4,6-Trichlorophenol  
 Concen: 40.47 ng  
 RT: 13.17 min Scan# 1759  
 Delta R.T. -0.02 min  
 Lab File: BG020094.D  
 Acq: 11 Dec 2015 4:07

Tgt Ion:196 Resp: 57377  
 Ion Ratio Lower Upper  
 196 100  
 198 91.4 74.7 112.1  
 200 30.3 24.1 36.1



Abundance Ion 196.00 (195.70 to 196.70): E  
 Ion 198.00 (197.70 to 198.70): E  
 Ion 200.00 (199.70 to 200.70): E

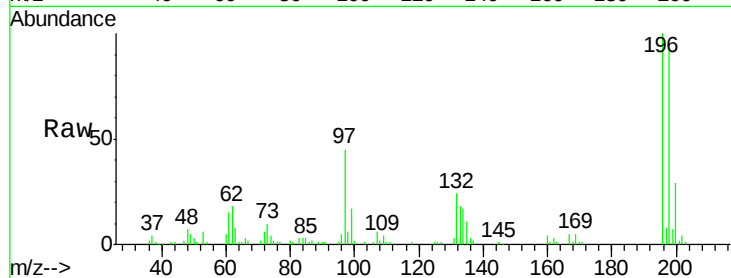




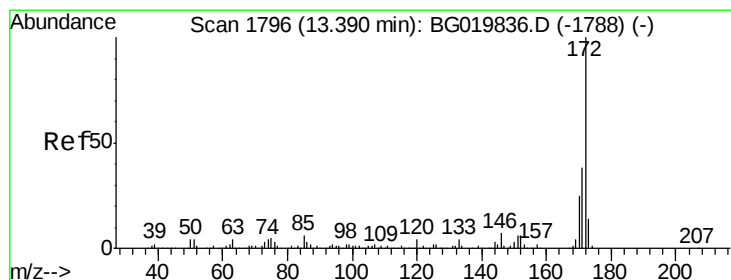
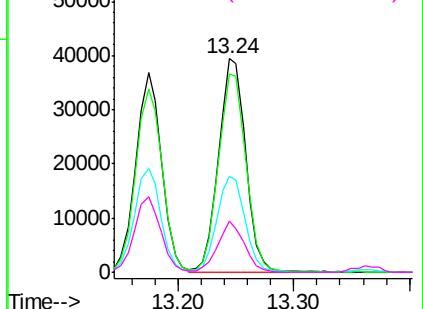
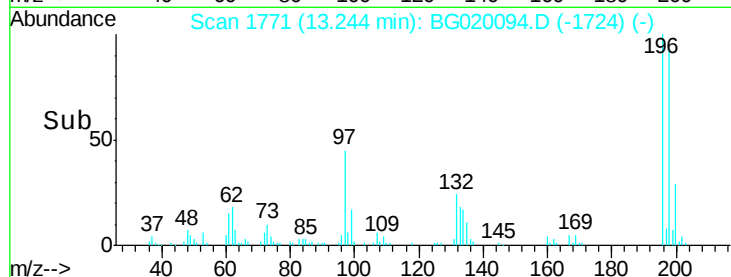
#43  
 2,4,5-Trichlorophenol  
 Concen: 42.81 ng  
 RT: 13.24 min Scan# 1771  
 Delta R.T. -0.02 min  
 Lab File: BG020094.D  
 Acq: 11 Dec 2015 4:07

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB87183BS

Tgt Ion:196 Resp: 64144  
 Ion Ratio Lower Upper  
 196 100  
 198 93.1 75.2 112.8  
 97 45.1 34.2 51.2  
 132 23.8 21.8 32.6

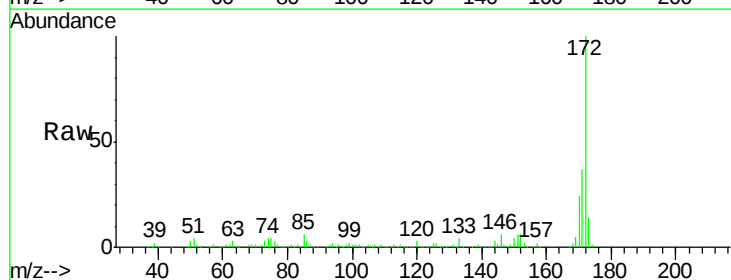


Abundance Ion 196.00 (195.70 to 196.70): E  
 Ion 198.00 (197.70 to 198.70): E  
 Ion 97.00 (96.70 to 97.70): BGC  
 Ion 132.00 (131.70 to 132.70): E

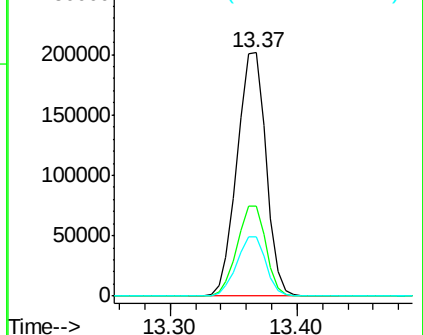
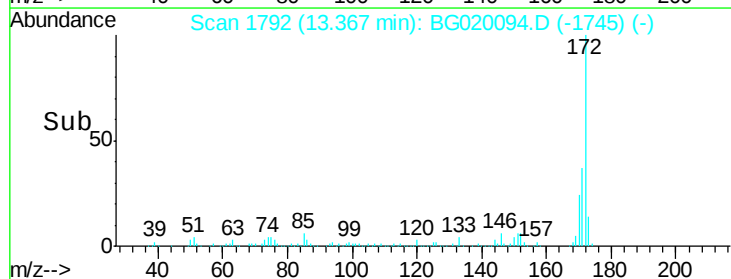


#44  
 2-Fluorobiphenyl  
 Concen: 77.29 ng  
 RT: 13.37 min Scan# 1792  
 Delta R.T. -0.02 min  
 Lab File: BG020094.D  
 Acq: 11 Dec 2015 4:07

Tgt Ion:172 Resp: 319387  
 Ion Ratio Lower Upper  
 172 100  
 171 37.2 29.0 43.6  
 170 24.2 19.9 29.9



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

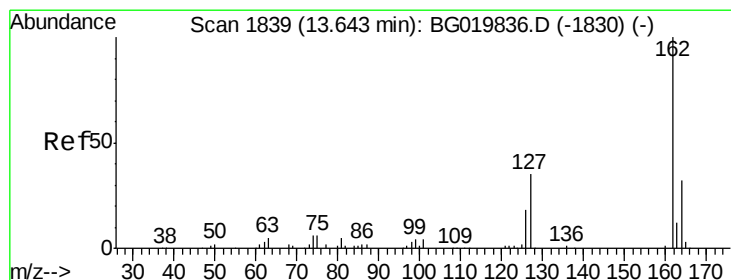
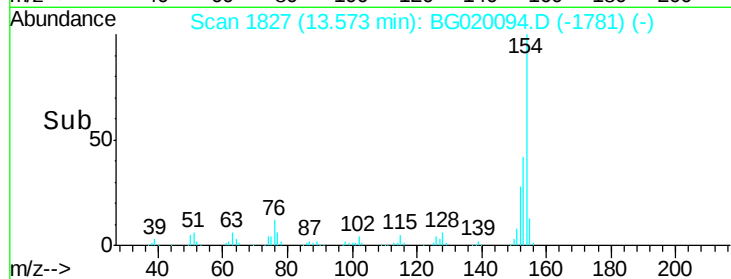
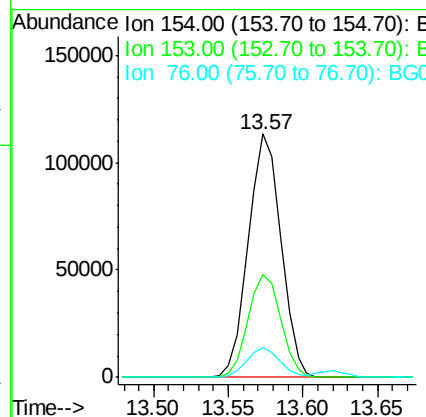
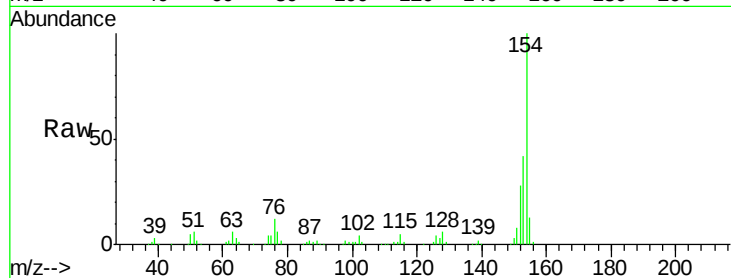




#45  
 1,1'-Biphenyl  
 Concen: 37.09 ng  
 RT: 13.57 min Scan# 1827  
 Delta R.T. -0.03 min  
 Lab File: BG020094.D  
 Acq: 11 Dec 2015 4:07

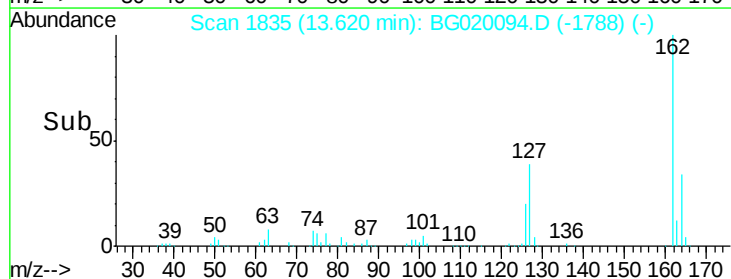
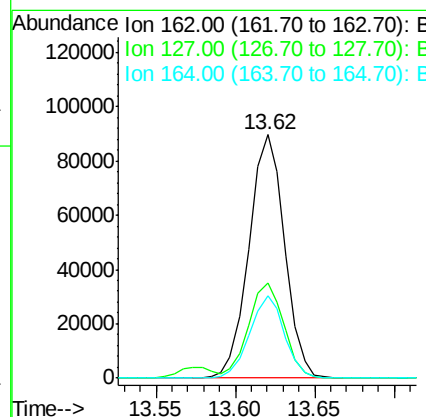
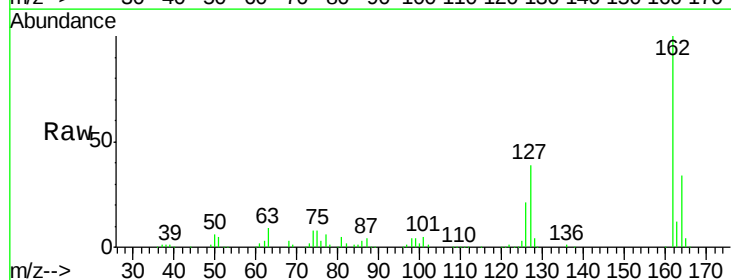
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB87183BS

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 154   | Resp: | 171760 |
| Ion      | Ratio | Lower | Upper  |
| 154      | 100   |       |        |
| 153      | 42.2  | 21.9  | 61.9   |
| 76       | 12.4  | 0.0   | 33.2   |



#46  
 2-Chloronaphthalene  
 Concen: 39.05 ng  
 RT: 13.62 min Scan# 1835  
 Delta R.T. -0.02 min  
 Lab File: BG020094.D  
 Acq: 11 Dec 2015 4:07

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 162   | Resp: | 139388 |
| Ion      | Ratio | Lower | Upper  |
| 162      | 100   |       |        |
| 127      | 38.9  | 28.3  | 42.5   |
| 164      | 33.7  | 27.4  | 41.0   |

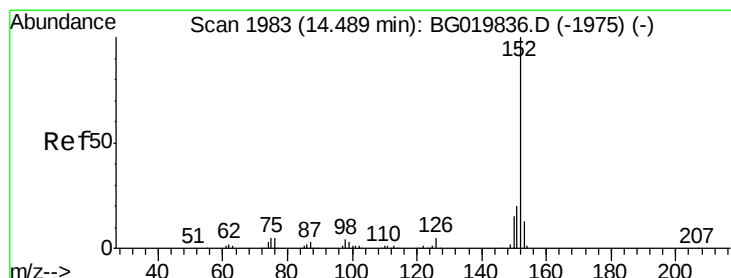
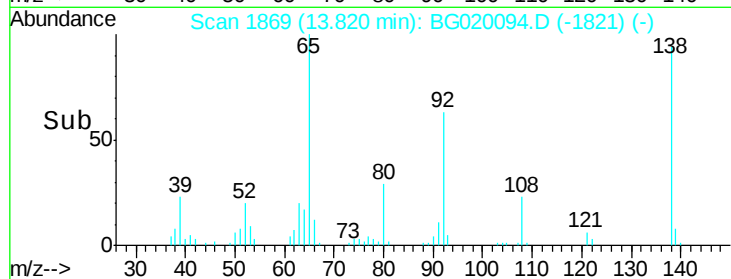
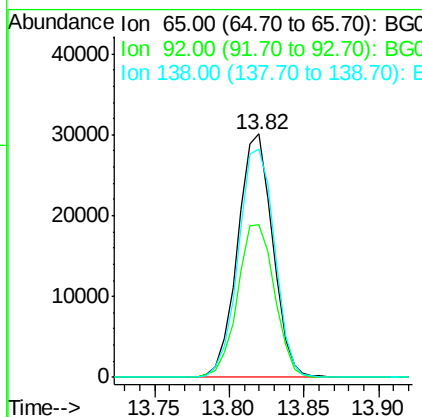
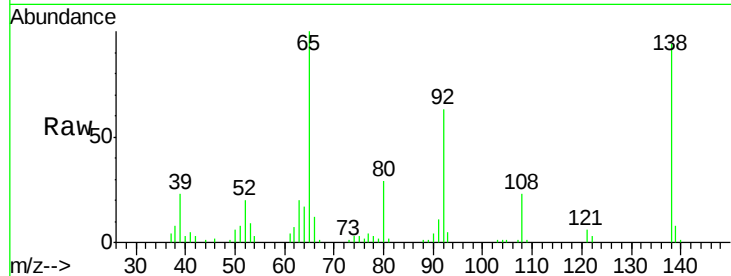




#47  
2-Nitroaniline  
Concen: 43.54 ng  
RT: 13.82 min Scan# 1869  
Delta R.T. -0.02 min  
Lab File: BG020094.D  
Acq: 11 Dec 2015 4:07

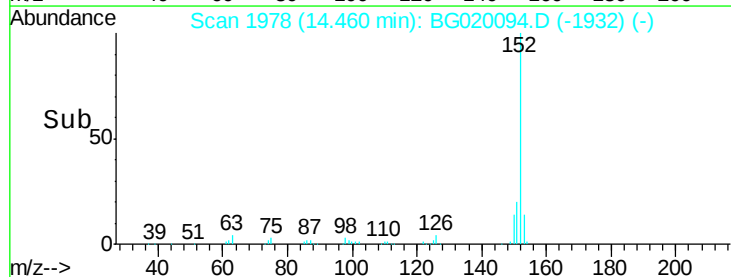
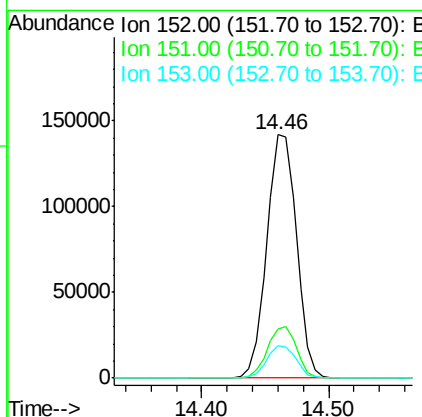
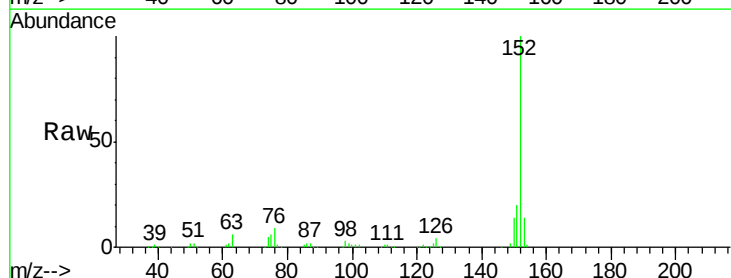
Instrument :  
BNA\_G  
ClientSampleId :  
PB87183BS

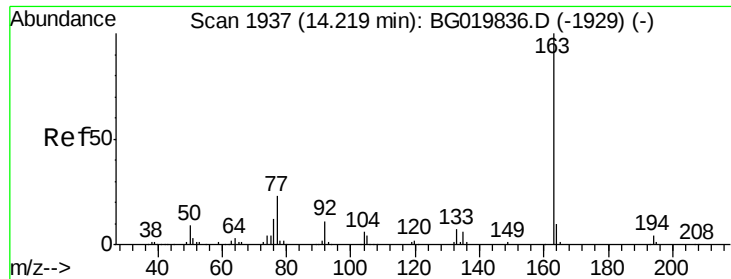
Tgt Ion: 65 Resp: 49079  
Ion Ratio Lower Upper  
65 100  
92 62.6 54.8 82.2  
138 93.6 89.6 134.4



#48  
Acenaphthylene  
Concen: 38.11 ng  
RT: 14.46 min Scan# 1978  
Delta R.T. -0.03 min  
Lab File: BG020094.D  
Acq: 11 Dec 2015 4:07

Tgt Ion: 152 Resp: 231715  
Ion Ratio Lower Upper  
152 100  
151 20.1 17.0 25.4  
153 13.5 10.4 15.6





#49

Dimethylphthalate

Concen: 35.86 ng

RT: 14.19 min Scan# 1932

Delta R.T. -0.03 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

Instrument :

BNA\_G

ClientSampleId :

PB87183BS

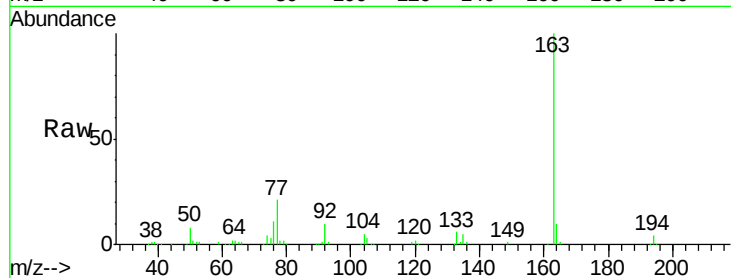
Tgt Ion:163 Resp: 182012

Ion Ratio Lower Upper

163 100

194 4.3 3.1 4.7

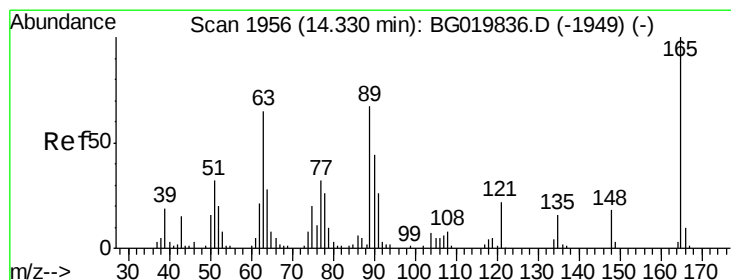
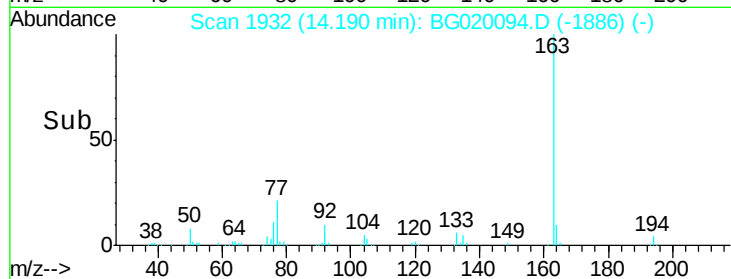
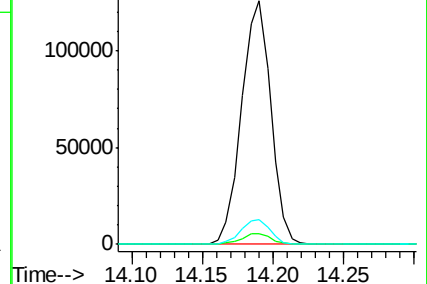
164 10.3 8.8 13.2



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#50

2,6-Dinitrotoluene

Concen: 43.14 ng

RT: 14.31 min Scan# 1952

Delta R.T. -0.02 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

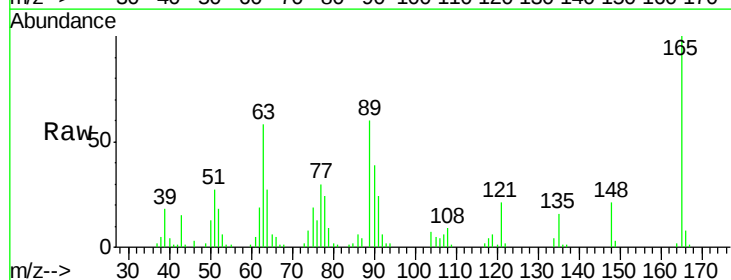
Tgt Ion:165 Resp: 41171

Ion Ratio Lower Upper

165 100

63 58.5 35.7 53.5#

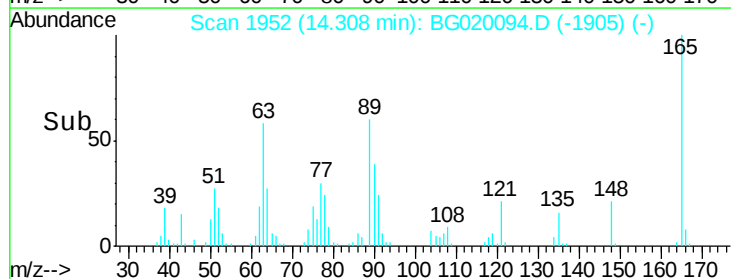
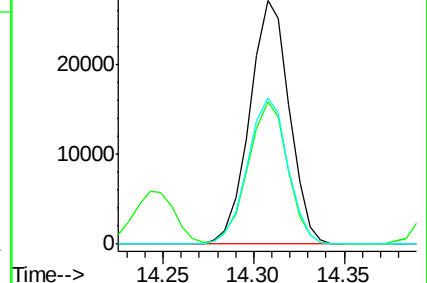
89 60.2 39.7 59.5#

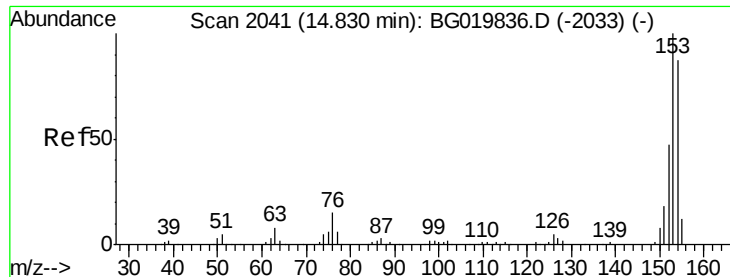


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC





#51

Acenaphthene

Concen: 37.55 ng

RT: 14.80 min Scan# 2036

Delta R.T. -0.03 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

Instrument :

BNA\_G

ClientSampleId :

PB87183BS

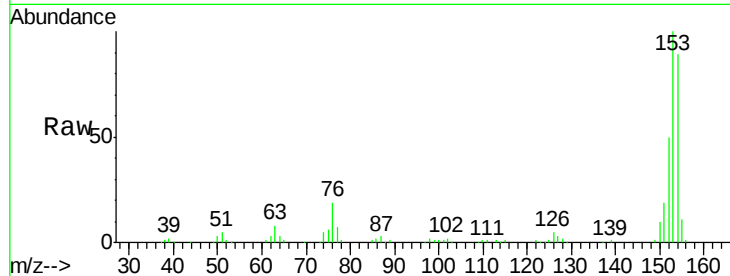
Tgt Ion:154 Resp: 138517

Ion Ratio Lower Upper

154 100

153 112.6 92.9 139.3

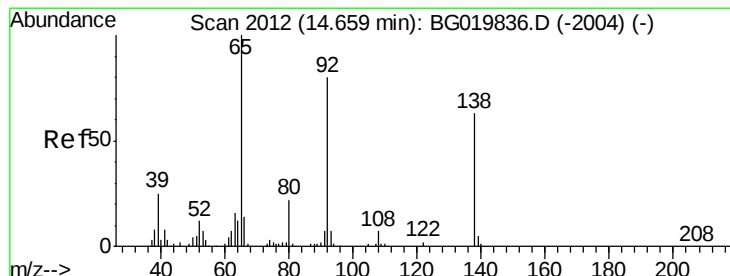
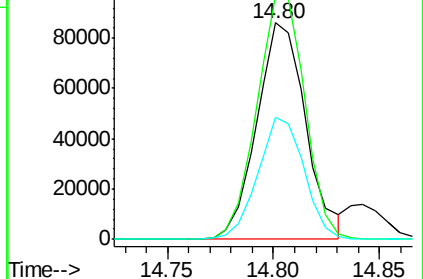
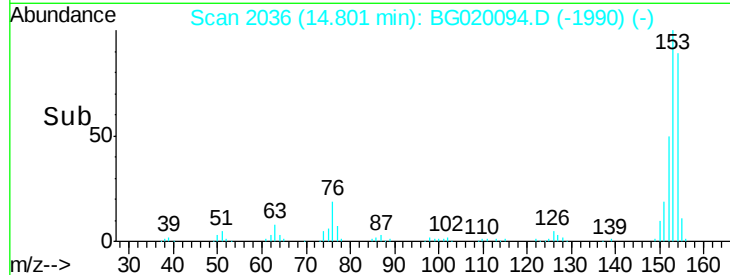
152 56.4 45.8 68.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#52

3-Nitroaniline

Concen: 23.59 ng

RT: 14.64 min Scan# 2008

Delta R.T. -0.02 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

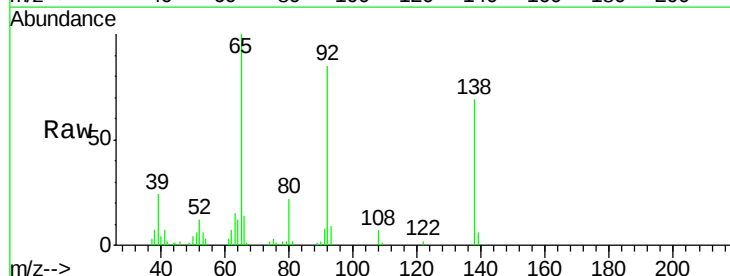
Tgt Ion:138 Resp: 23385

Ion Ratio Lower Upper

138 100

108 10.7 7.9 11.9

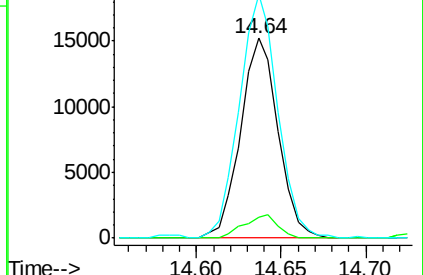
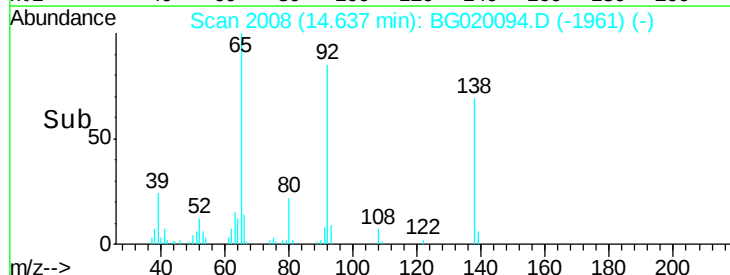
92 121.8 94.2 141.4

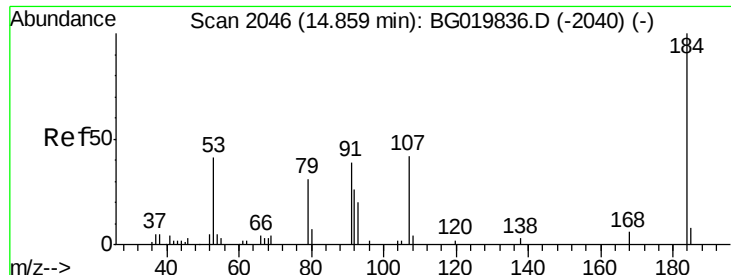


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BGC

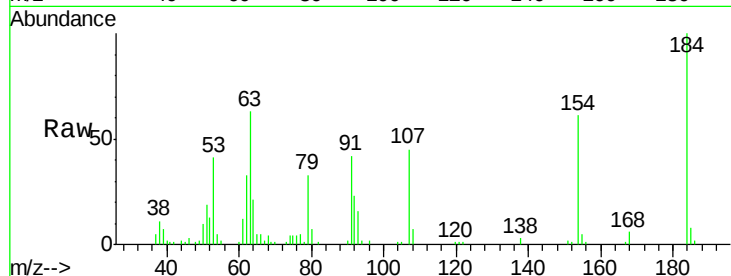




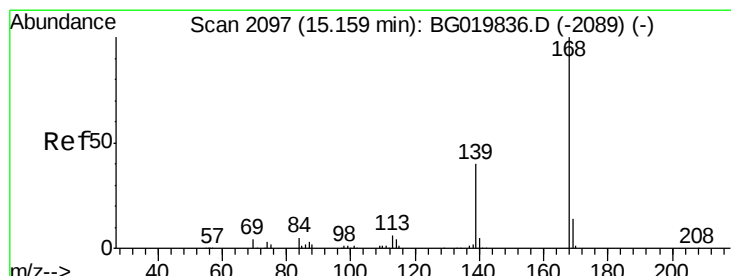
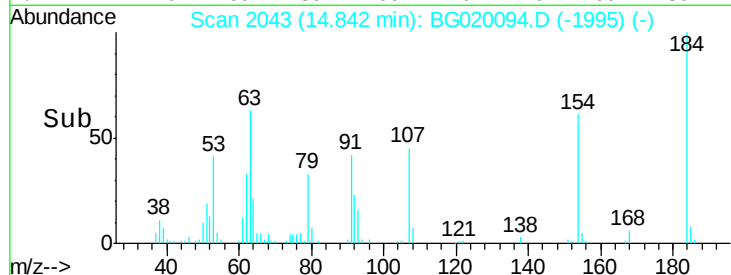
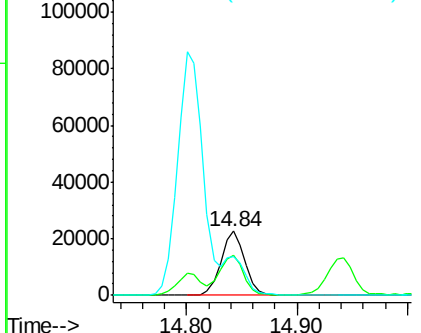
#53  
 2,4-Dinitrophenol  
 Concen: 69.20 ng  
 RT: 14.84 min Scan# 2043  
 Delta R.T. -0.02 min  
 Lab File: BG020094.D  
 Acq: 11 Dec 2015 4:07

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB87183BS

Tgt Ion:184 Resp: 34419  
 Ion Ratio Lower Upper  
 184 100  
 63 63.1 42.7 64.1  
 154 61.3 44.3 66.5

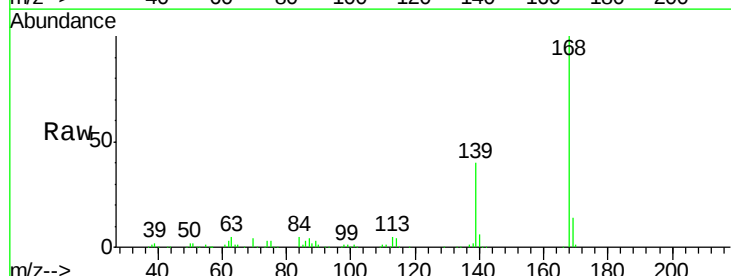


Abundance Ion 184.00 (183.70 to 184.70): E  
 Ion 63.00 (62.70 to 63.70): BG  
 Ion 154.00 (153.70 to 154.70): E

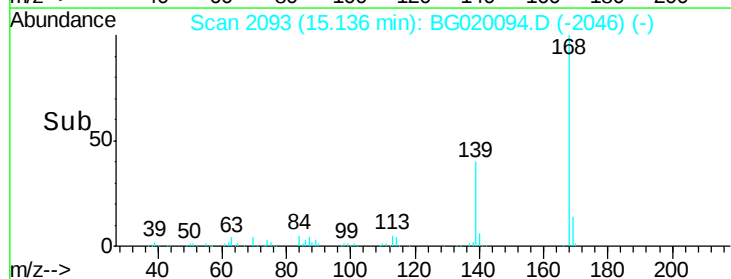
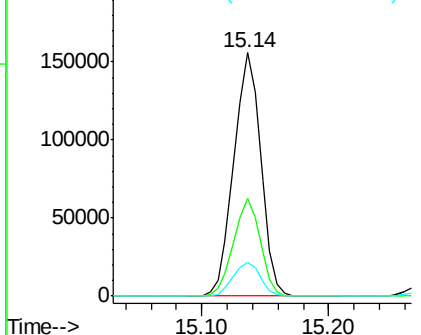


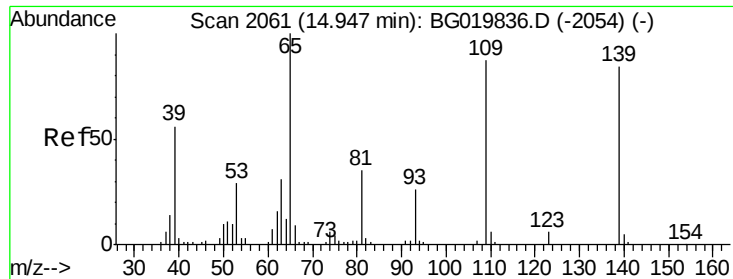
#54  
 Dibenzofuran  
 Concen: 41.79 ng  
 RT: 15.14 min Scan# 2093  
 Delta R.T. -0.02 min  
 Lab File: BG020094.D  
 Acq: 11 Dec 2015 4:07

Tgt Ion:168 Resp: 229356  
 Ion Ratio Lower Upper  
 168 100  
 139 39.9 27.4 41.0  
 169 13.9 11.0 16.4



Abundance Ion 168.00 (167.70 to 168.70): E  
 Ion 139.00 (138.70 to 139.70): E  
 Ion 169.00 (168.70 to 169.70): E

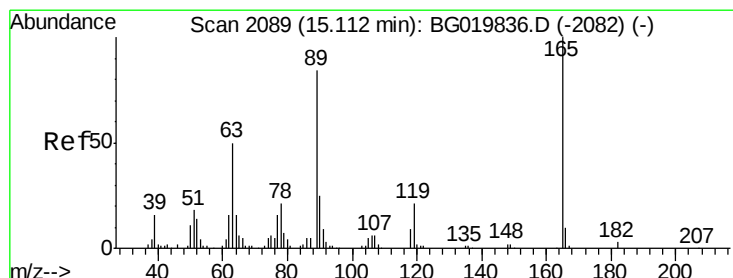
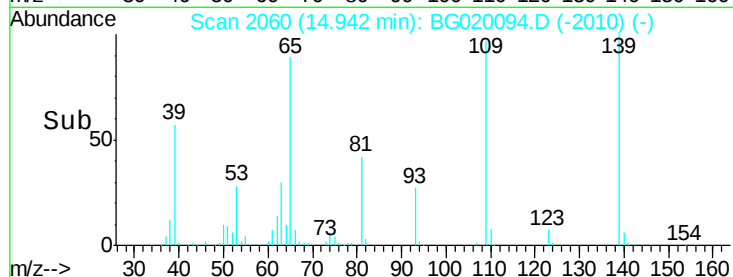
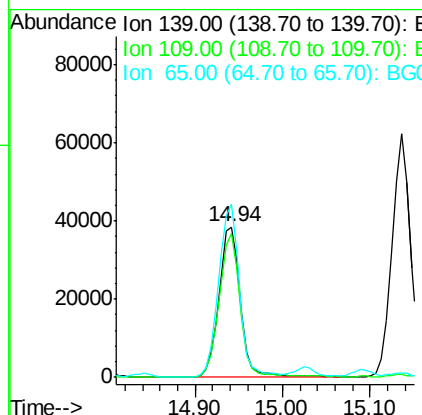
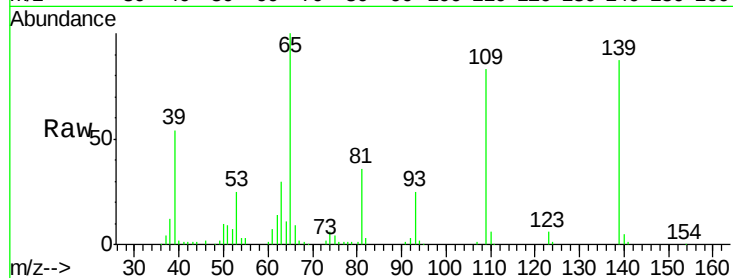




#55  
4-Nitrophenol  
Concen: 76.96 ng  
RT: 14.94 min Scan# 2060  
Delta R.T. -0.00 min  
Lab File: BG020094.D  
Acq: 11 Dec 2015 4:07

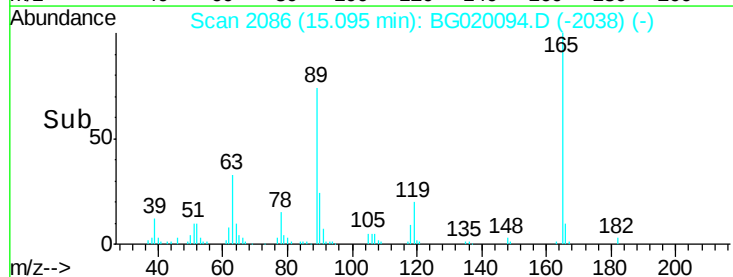
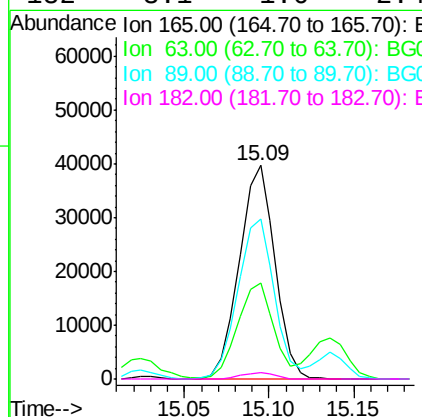
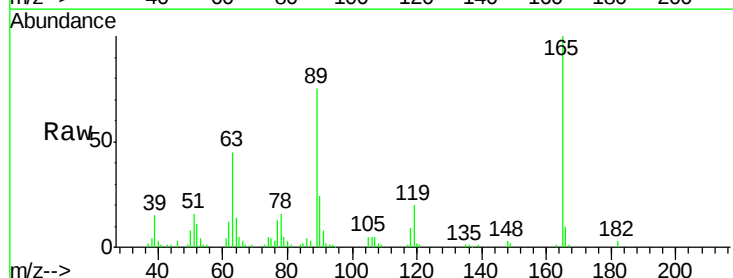
Instrument :  
BNA\_G  
ClientSampleId :  
PB87183BS

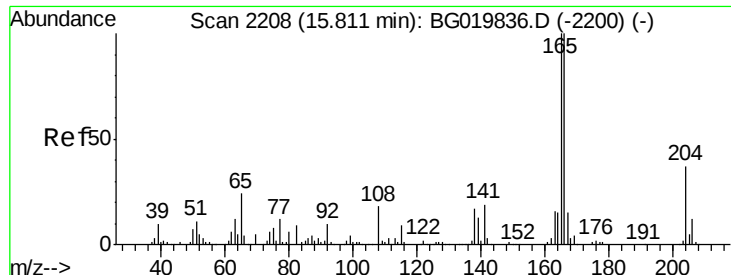
Tgt Ion:139 Resp: 66445  
Ion Ratio Lower Upper  
139 100  
109 95.3 43.2 83.2#  
65 115.2 67.8 107.8#



#56  
2,4-Dinitrotoluene  
Concen: 43.69 ng  
RT: 15.09 min Scan# 2086  
Delta R.T. -0.02 min  
Lab File: BG020094.D  
Acq: 11 Dec 2015 4:07

Tgt Ion:165 Resp: 58167  
Ion Ratio Lower Upper  
165 100  
63 45.2 31.0 46.4  
89 75.0 54.4 81.6  
182 3.1 1.6 2.4#

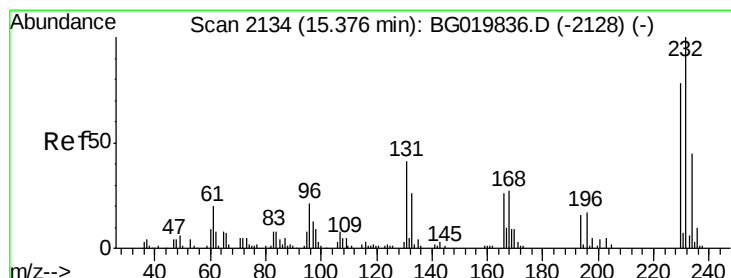
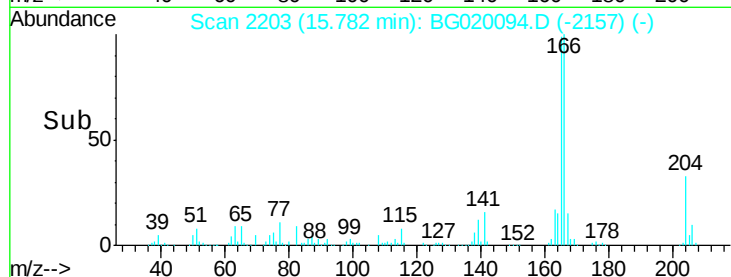
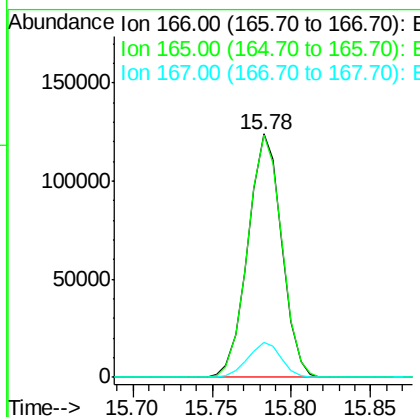
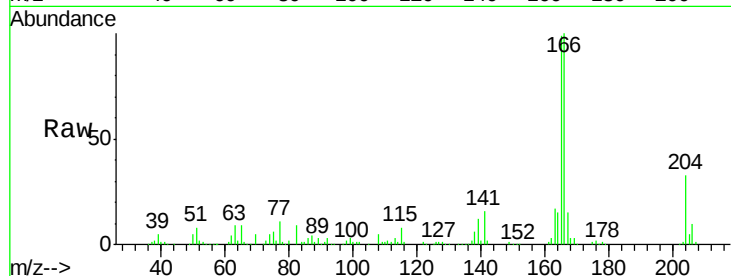




#57  
**Fluorene**  
 Concen: 37.39 ng  
 RT: 15.78 min Scan# 2203  
 Delta R.T. -0.03 min  
 Lab File: BG020094.D  
 Acq: 11 Dec 2015 4:07

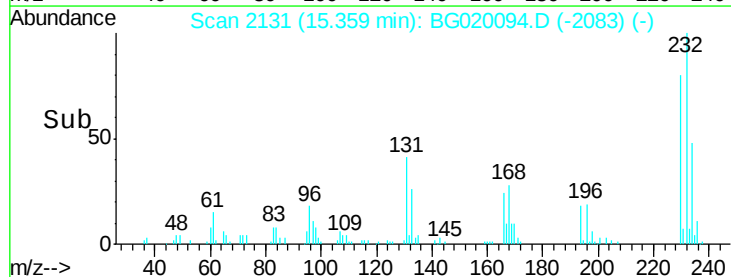
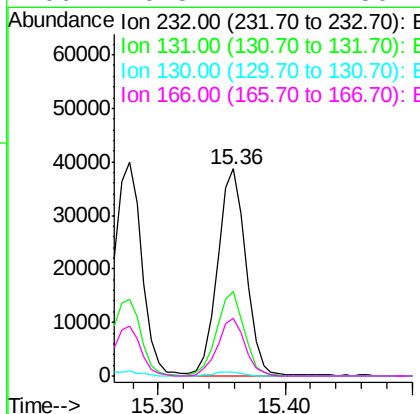
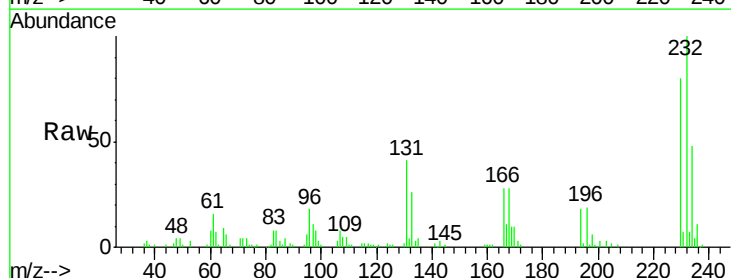
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB87183BS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 99.5  | 80.0  | 120.0 |
| 167     | 14.6  | 11.1  | 16.7  |



#58  
**2,3,4,6-Tetrachlorophenol**  
 Concen: 43.43 ng  
 RT: 15.36 min Scan# 2131  
 Delta R.T. -0.02 min  
 Lab File: BG020094.D  
 Acq: 11 Dec 2015 4:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 232     | 100   |       |       |
| 131     | 39.7  | 33.0  | 49.6  |
| 130     | 2.2   | 2.0   | 3.0   |
| 166     | 26.8  | 24.1  | 36.1  |





#59

Diethylphthalate

Concen: 34.67 ng

RT: 15.55 min Scan# 2163

Delta R.T. -0.03 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

Instrument :

BNA\_G

ClientSampleId :

PB87183BS

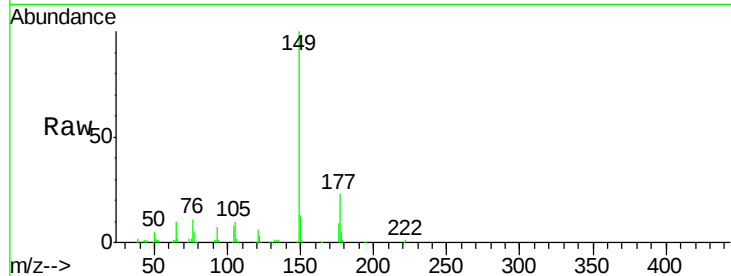
Tgt Ion:149 Resp: 190424

Ion Ratio Lower Upper

149 100

177 23.3 19.6 29.4

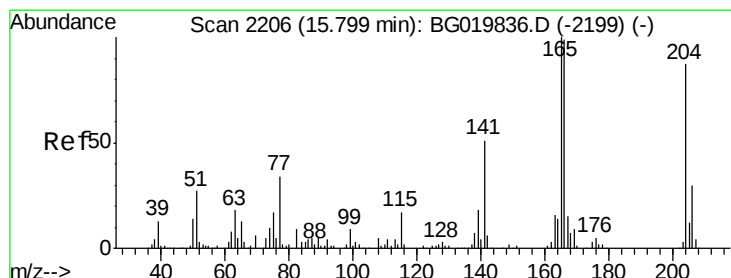
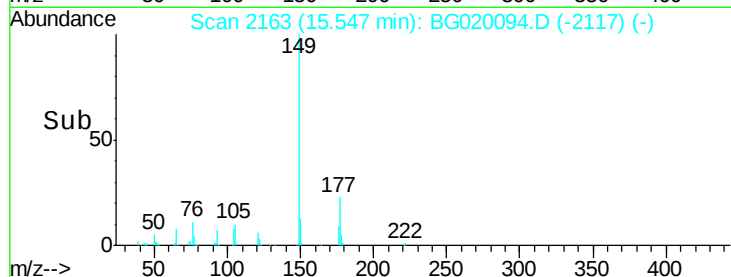
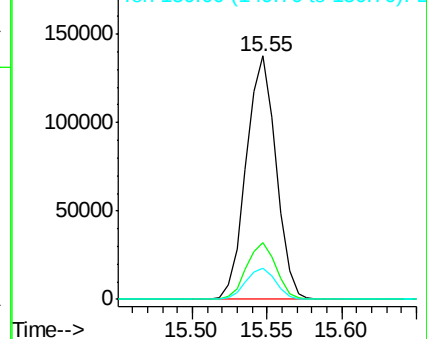
150 12.7 10.2 15.2



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 177.00 (176.70 to 177.70): E

Ion 150.00 (149.70 to 150.70): E



#60

4-Chlorophenyl-phenylether

Concen: 36.51 ng

RT: 15.77 min Scan# 2201

Delta R.T. -0.03 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

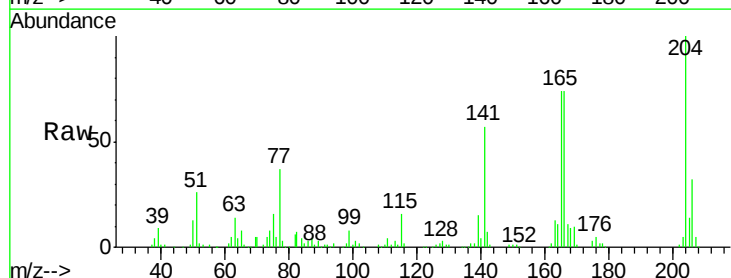
Tgt Ion:204 Resp: 102983

Ion Ratio Lower Upper

204 100

206 32.1 28.3 42.5

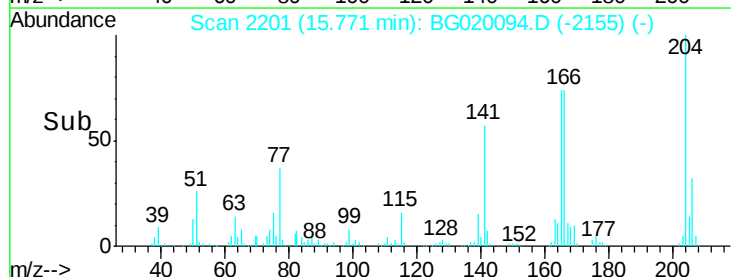
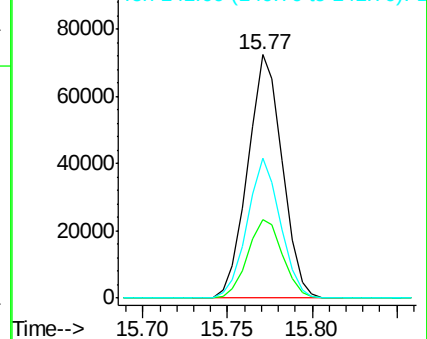
141 57.2 44.0 66.0

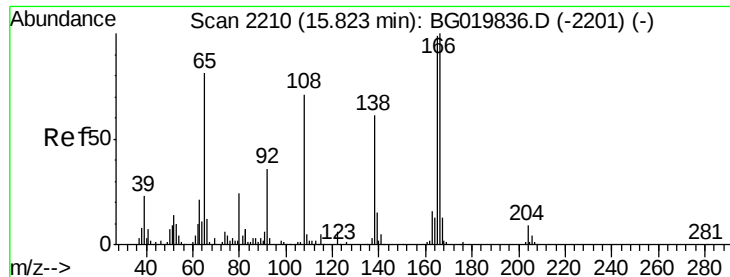


Abundance Ion 204.00 (203.70 to 204.70): E

Ion 206.00 (205.70 to 206.70): E

Ion 141.00 (140.70 to 141.70): E

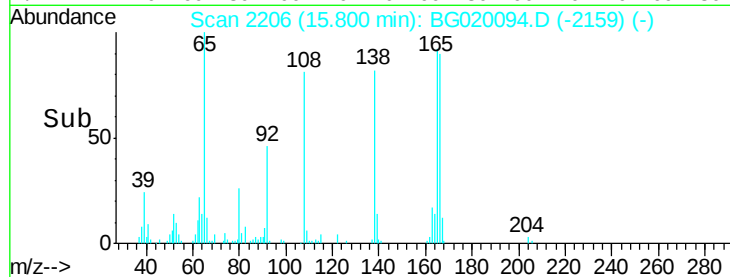
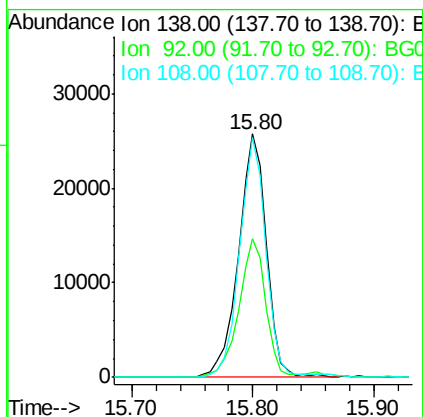
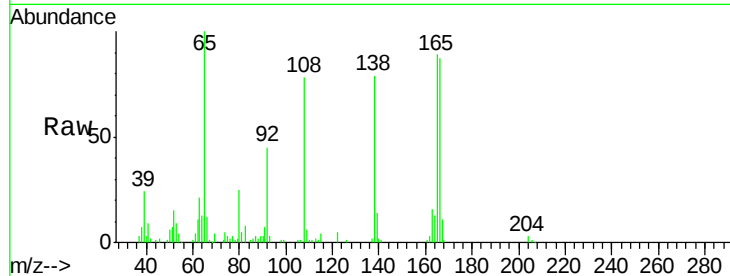




#61  
4-Nitroaniline  
Concen: 37.09 ng  
RT: 15.80 min Scan# 2206  
Delta R.T. -0.02 min  
Lab File: BG020094.D  
Acq: 11 Dec 2015 4:07

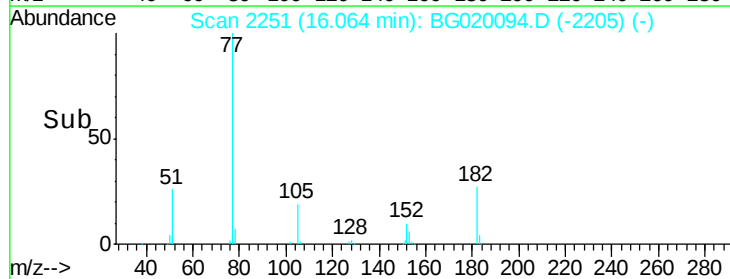
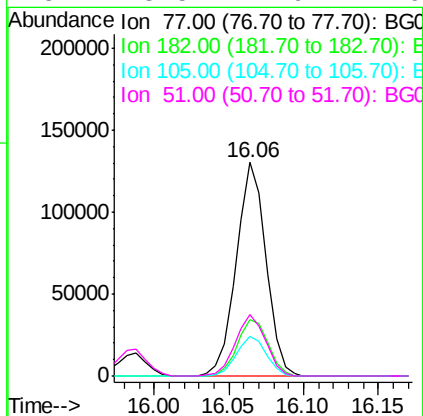
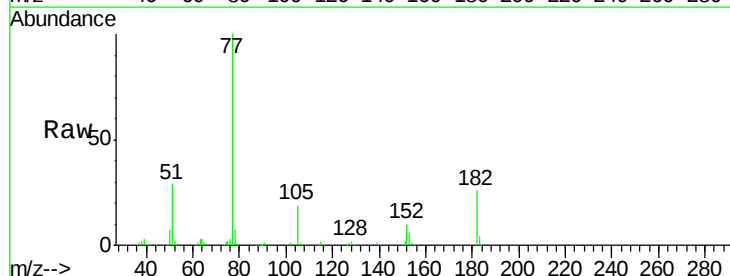
Instrument :  
BNA\_G  
ClientSampleId :  
PB87183BS

Tgt Ion: 138 Resp: 41360  
Ion Ratio Lower Upper  
138 100  
92 56.7 29.1 69.1  
108 98.4 49.8 89.8#



#62  
Azobenzene  
Concen: 39.43 ng  
RT: 16.06 min Scan# 2251  
Delta R.T. -0.03 min  
Lab File: BG020094.D  
Acq: 11 Dec 2015 4:07

Tgt Ion: 77 Resp: 180217  
Ion Ratio Lower Upper  
77 100  
182 26.4 7.0 47.0  
105 18.5 1.4 41.4  
51 28.5 4.9 44.9

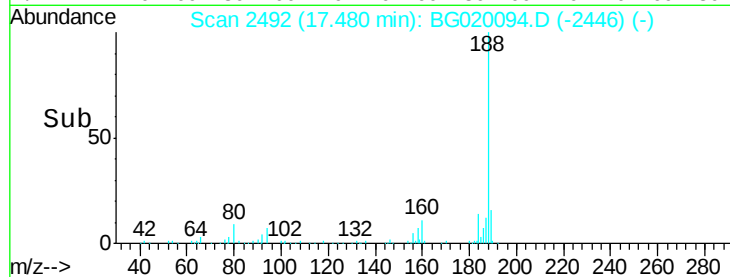
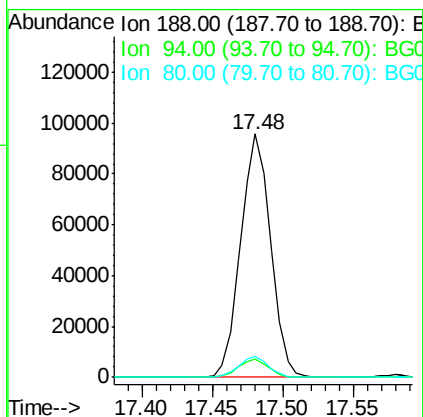
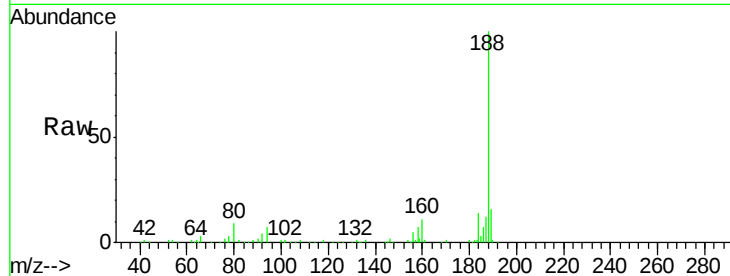




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.48 min Scan# 2492  
Delta R.T. -0.03 min  
Lab File: BG020094.D  
Acq: 11 Dec 2015 4:07

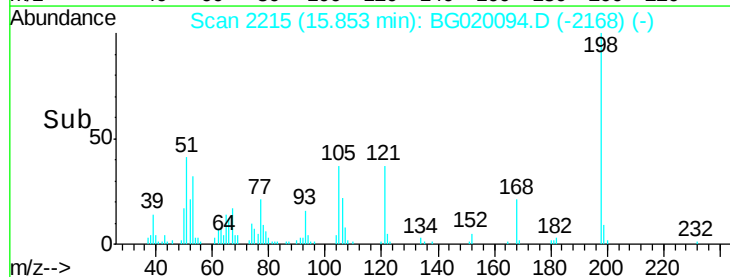
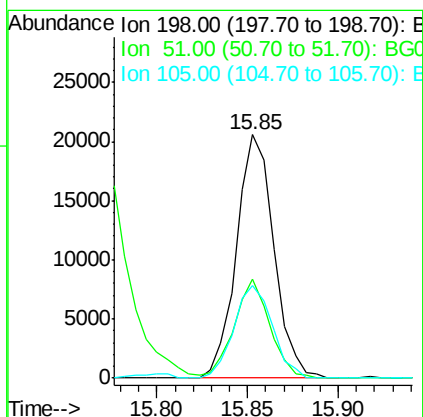
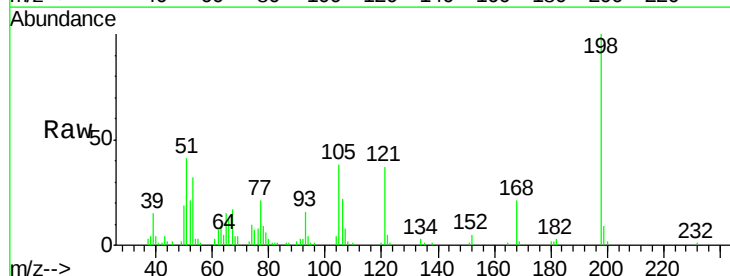
Instrument :  
BNA\_G  
ClientSampleId :  
PB87183BS

Tgt Ion:188 Resp: 142042  
Ion Ratio Lower Upper  
188 100  
94 7.4 7.7 11.5#  
80 8.6 7.8 11.8



#64  
4,6-Dinitro-2-methylphenol  
Concen: 38.34 ng  
RT: 15.85 min Scan# 2215  
Delta R.T. -0.02 min  
Lab File: BG020094.D  
Acq: 11 Dec 2015 4:07

Tgt Ion:198 Resp: 29475  
Ion Ratio Lower Upper  
198 100  
51 40.8 14.2 54.2  
105 38.1 21.1 61.1





#65

n-Nitrosodiphenylamine

Concen: 40.69 ng

RT: 15.99 min Scan# 2238

Delta R.T. -0.02 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

Instrument :

BNA\_G

ClientSampleId :

PB87183BS

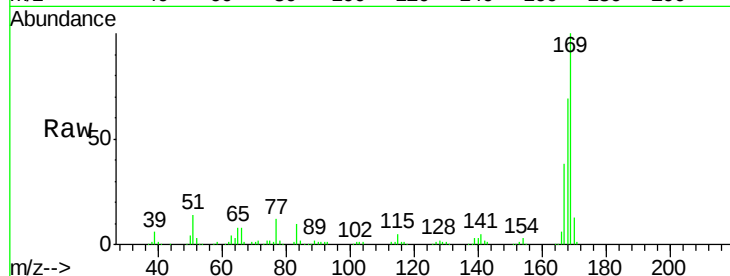
Tgt Ion:169 Resp: 167258

Ion Ratio Lower Upper

169 100

168 69.1 58.2 87.2

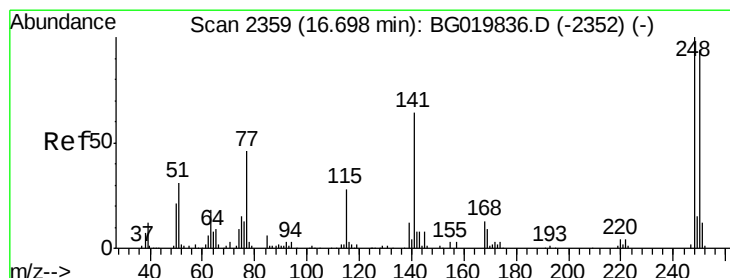
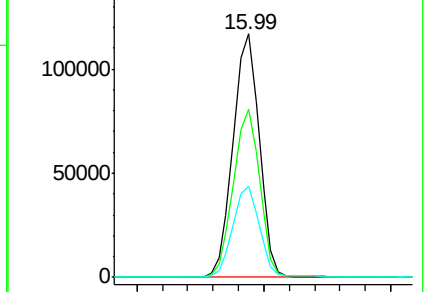
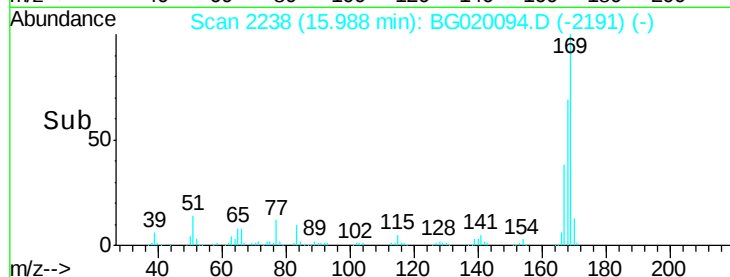
167 37.7 32.7 49.1



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: 39.28 ng

RT: 16.66 min Scan# 2353

Delta R.T. -0.03 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

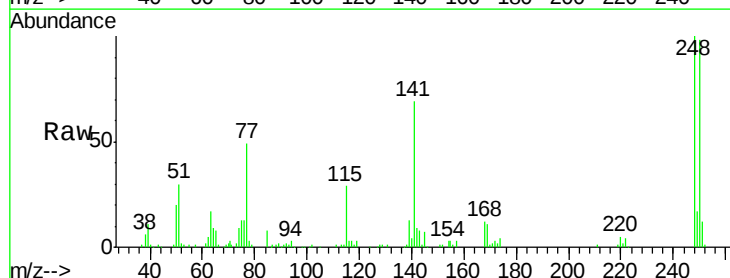
Tgt Ion:248 Resp: 69324

Ion Ratio Lower Upper

248 100

250 97.8 77.8 116.8

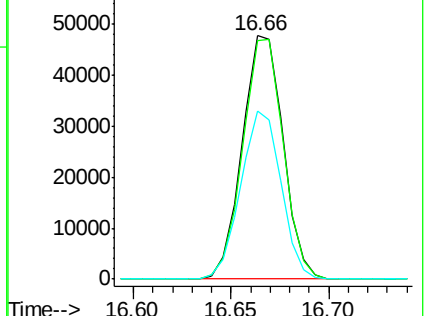
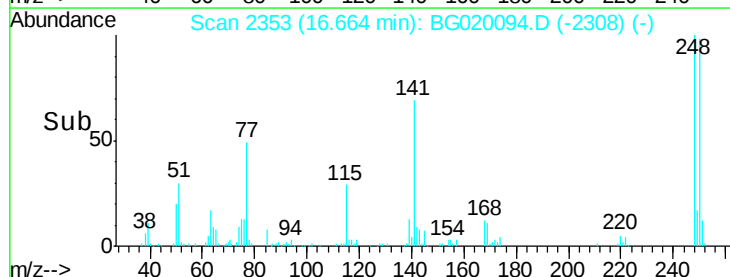
141 69.2 50.4 75.6



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: 40.18 ng

RT: 16.79 min Scan# 2374

Delta R.T. -0.02 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

Instrument :

BNA\_G

ClientSampleId :

PB87183BS

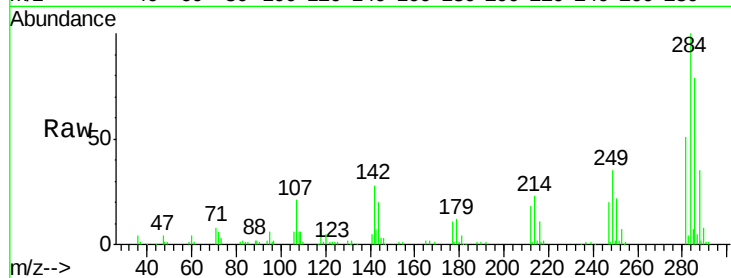
Tgt Ion:284 Resp: 73871

Ion Ratio Lower Upper

284 100

142 28.3 26.6 39.8

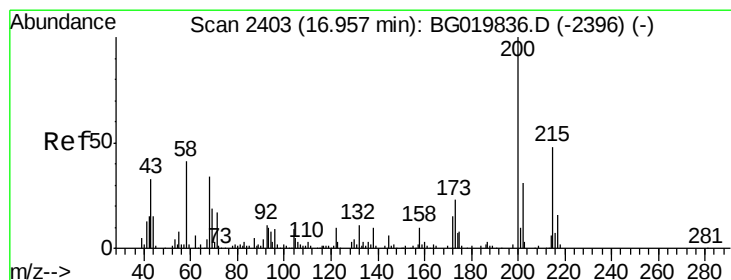
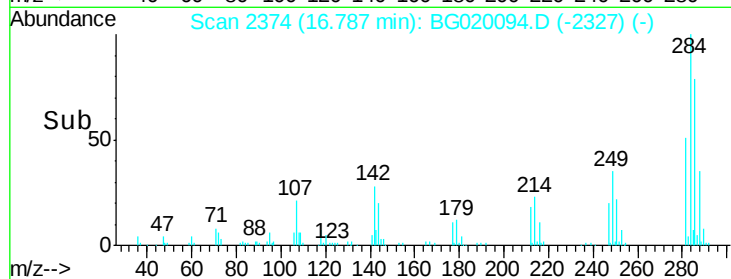
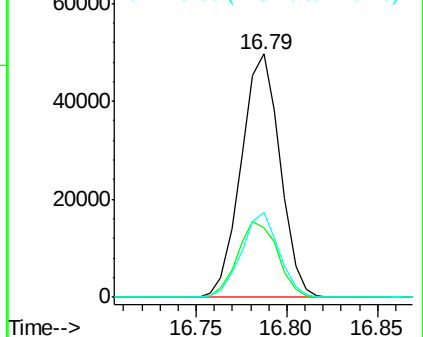
249 34.9 26.2 39.2



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#68

Atrazine

Concen: 38.38 ng

RT: 16.93 min Scan# 2398

Delta R.T. -0.03 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

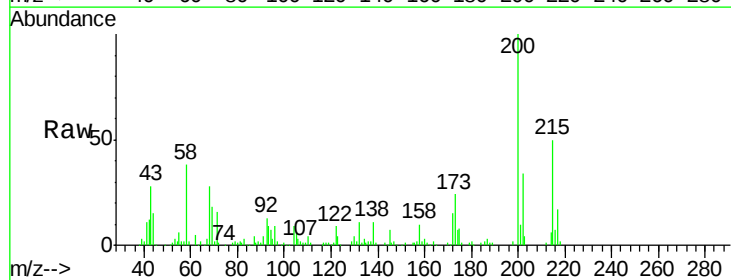
Tgt Ion:200 Resp: 68545

Ion Ratio Lower Upper

200 100

173 24.3 5.2 45.2

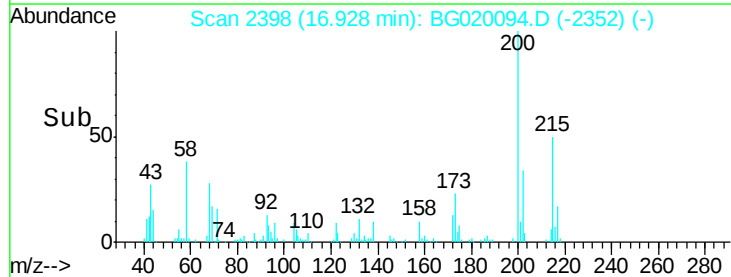
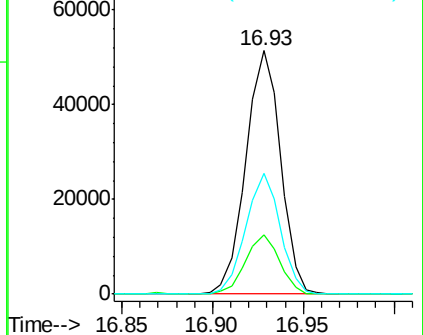
215 49.7 27.0 67.0

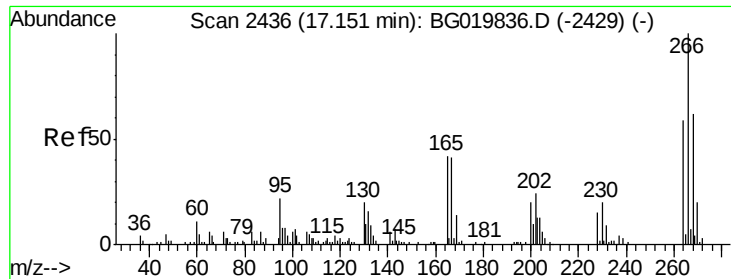


Abundance Ion 200.00 (199.70 to 200.70): E

Ion 173.00 (172.70 to 173.70): E

Ion 215.00 (214.70 to 215.70): E

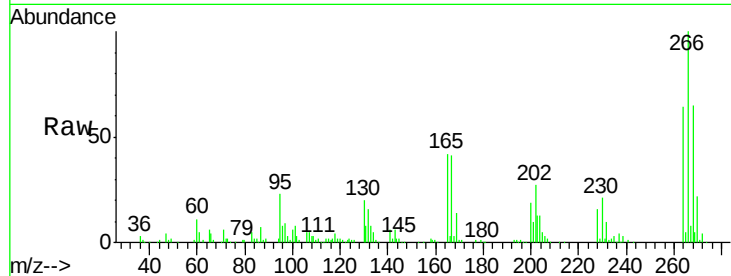




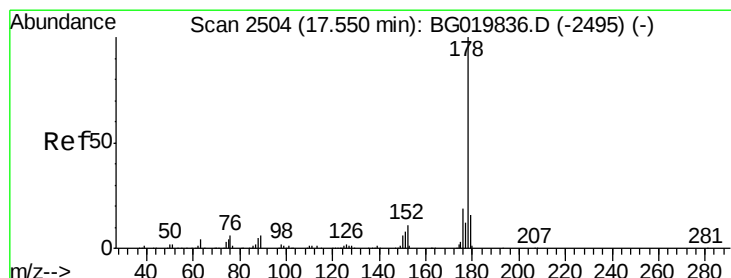
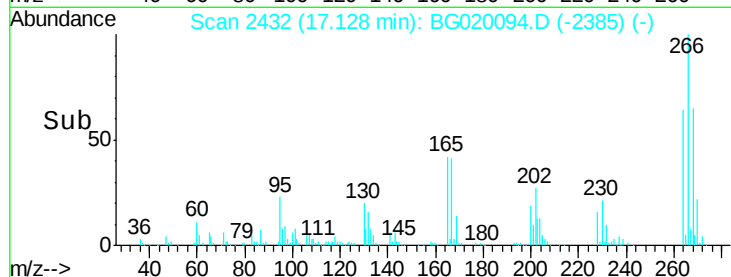
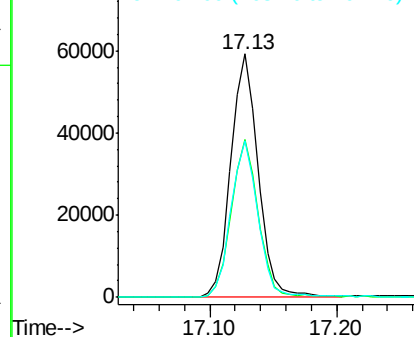
#69  
 Pentachlorophenol  
 Concen: 82.43 ng  
 RT: 17.13 min Scan# 2432  
 Delta R.T. -0.02 min  
 Lab File: BG020094.D  
 Acq: 11 Dec 2015 4:07

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB87183BS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 268     | 64.9  | 47.6  | 71.4  |
| 264     | 64.1  | 48.1  | 72.1  |

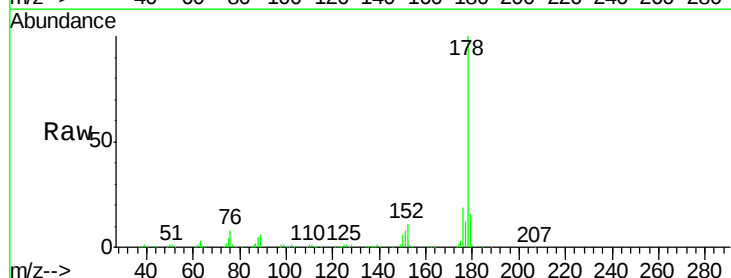


Abundance Ion 265.70 (265.40 to 266.40): E  
 Ion 268.00 (267.70 to 268.70): E  
 Ion 264.00 (263.70 to 264.70): E

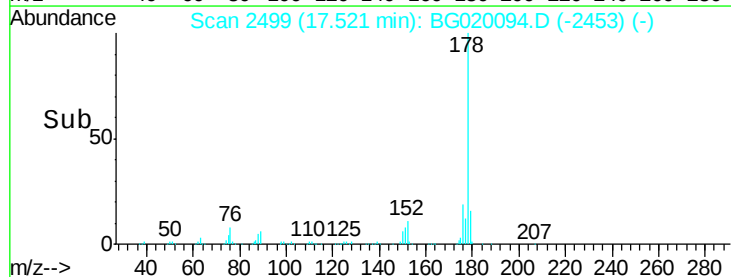
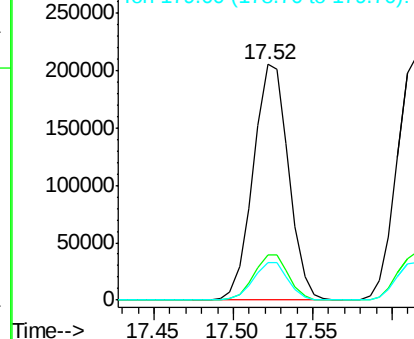


#70  
 Phenanthrene  
 Concen: 39.64 ng  
 RT: 17.52 min Scan# 2499  
 Delta R.T. -0.03 min  
 Lab File: BG020094.D  
 Acq: 11 Dec 2015 4:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.2  | 16.7  | 25.1  |
| 179     | 15.7  | 13.9  | 20.9  |



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

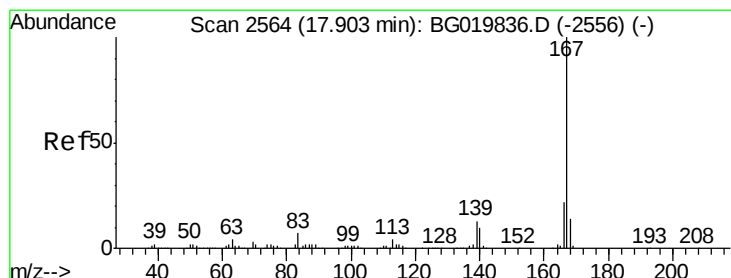
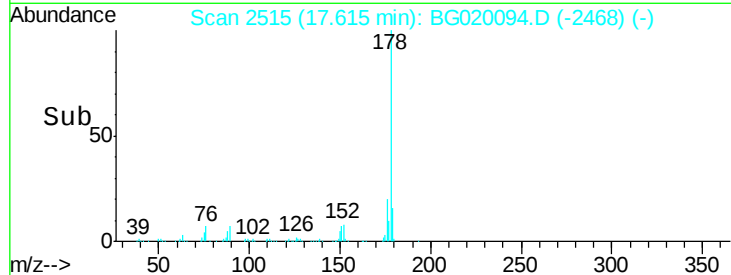
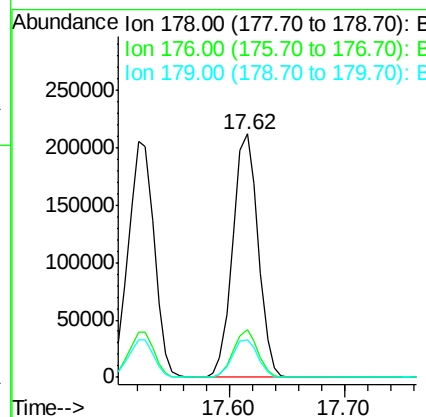
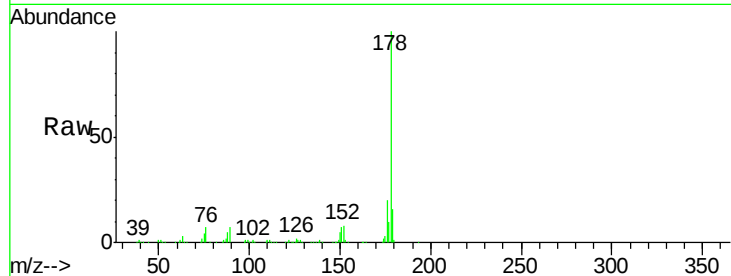




#71  
 Anthracene  
 Concen: 39.49 ng  
 RT: 17.62 min Scan# 2515  
 Delta R.T. -0.02 min  
 Lab File: BG020094.D  
 Acq: 11 Dec 2015 4:07

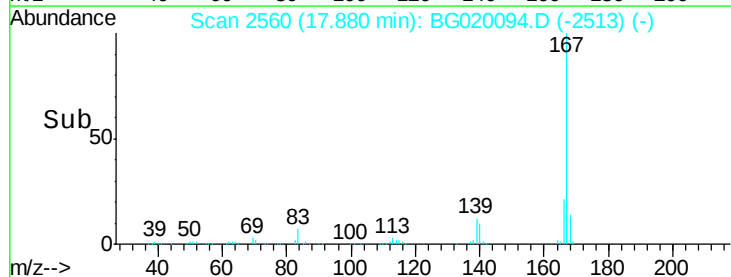
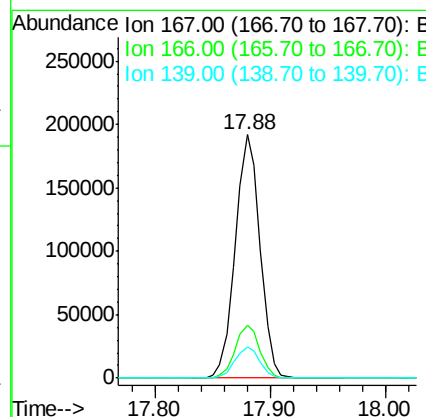
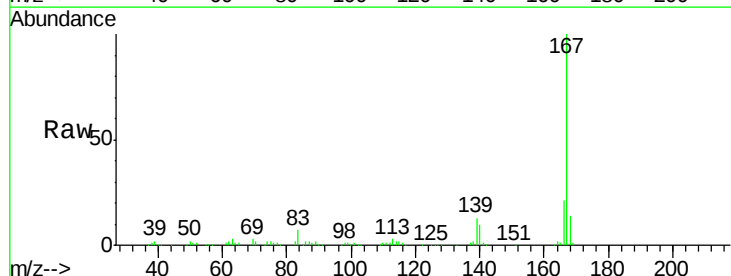
Instrument :  
 BNA\_G  
 ClientSampled :  
 PB87183BS

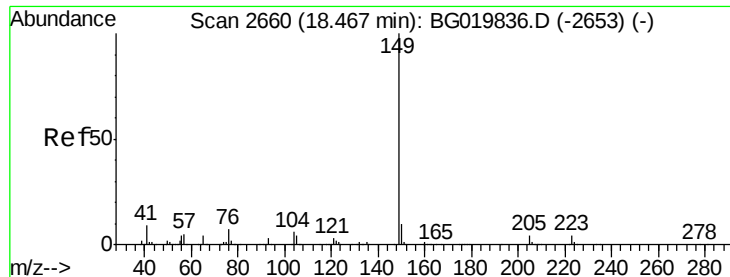
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.5  | 16.8  | 25.2  |
| 179     | 15.5  | 13.9  | 20.9  |



#72  
 Carbazole  
 Concen: 39.36 ng  
 RT: 17.88 min Scan# 2560  
 Delta R.T. -0.02 min  
 Lab File: BG020094.D  
 Acq: 11 Dec 2015 4:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 21.5  | 19.0  | 28.6  |
| 139     | 12.8  | 10.2  | 15.4  |

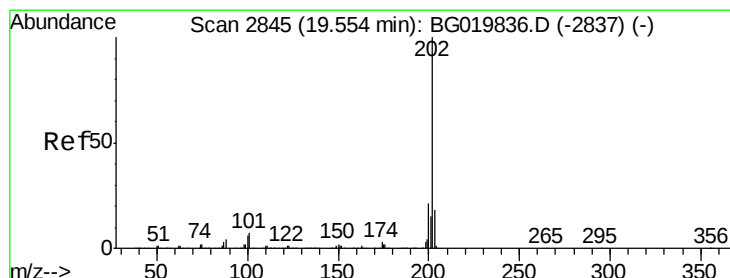
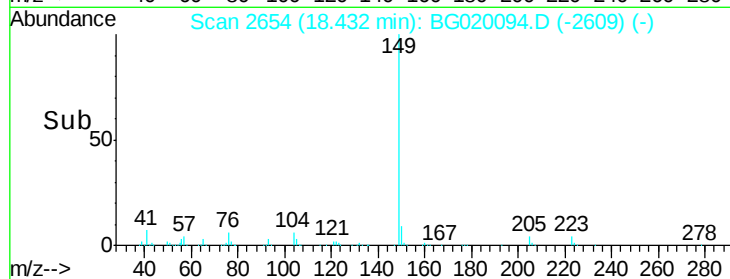
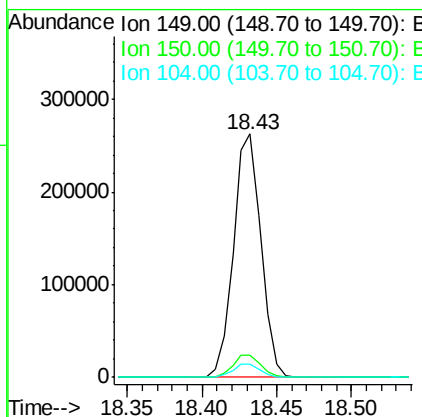
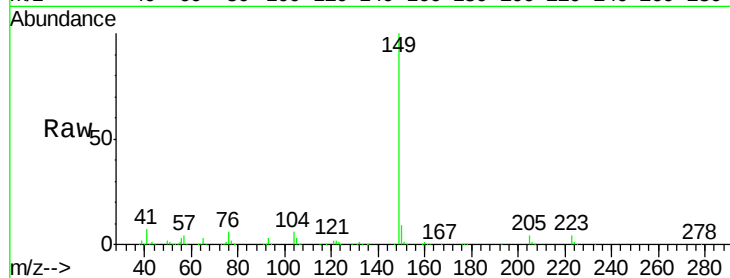




#73  
Di-n-butylphthalate  
Concen: 38.16 ng  
RT: 18.43 min Scan# 2654  
Delta R.T. -0.03 min  
Lab File: BG020094.D  
Acq: 11 Dec 2015 4:07

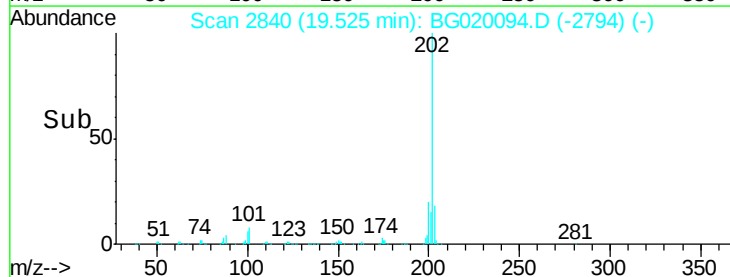
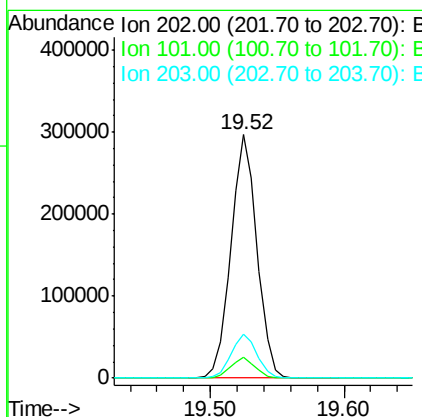
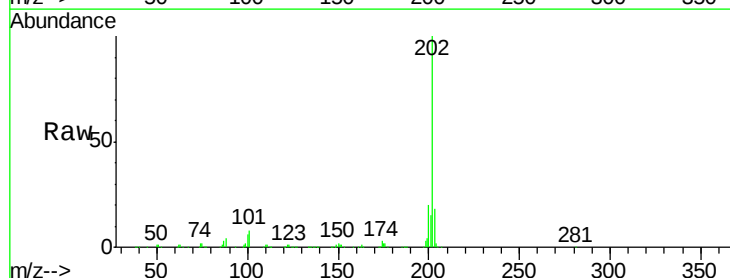
Instrument :  
BNA\_G  
ClientSampleId :  
PB87183BS

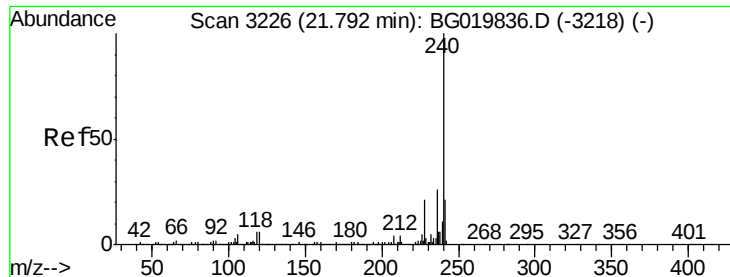
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 150     | 9.1   | 8.2   | 12.4  |
| 104     | 5.6   | 4.4   | 6.6   |



#74  
Fluoranthene  
Concen: 39.02 ng  
RT: 19.52 min Scan# 2840  
Delta R.T. -0.03 min  
Lab File: BG020094.D  
Acq: 11 Dec 2015 4:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 8.4   | 0.0   | 32.4  |
| 203     | 18.3  | 0.0   | 39.5  |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.76 min Scan# 3220

Delta R.T. -0.03 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

Instrument :

BNA\_G

ClientSampleId :

PB87183BS

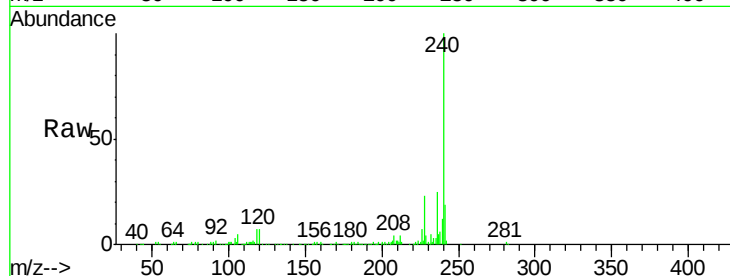
Tgt Ion:240 Resp: 171662

Ion Ratio Lower Upper

240 100

120 6.5 7.4 11.0#

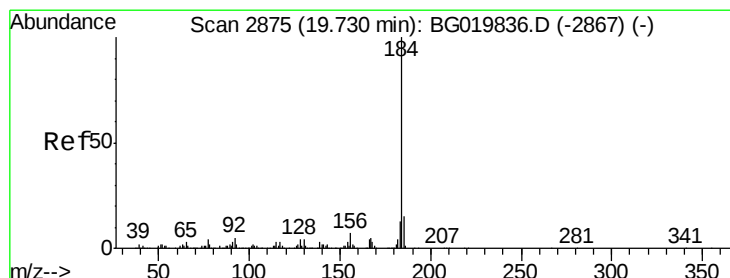
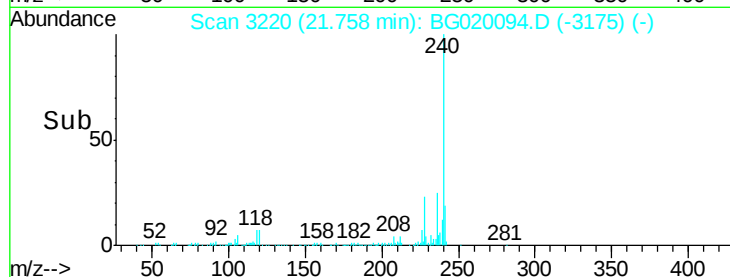
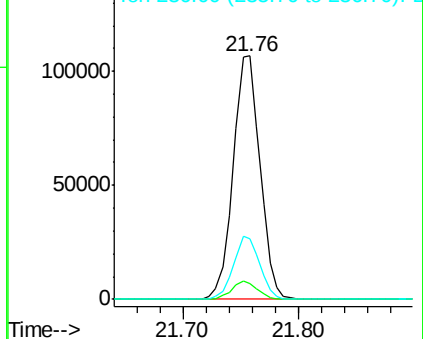
236 25.1 20.7 31.1



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: 18.29 ng

RT: 19.70 min Scan# 2870

Delta R.T. -0.03 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

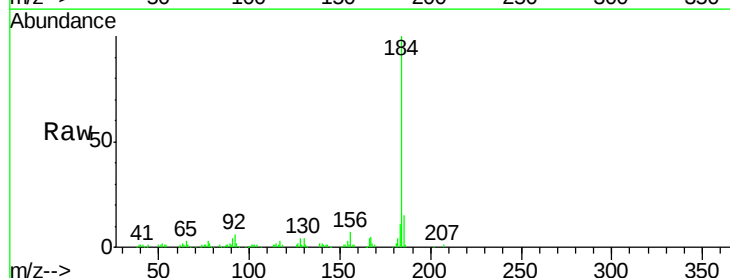
Tgt Ion:184 Resp: 103128

Ion Ratio Lower Upper

184 100

185 14.9 13.4 20.2

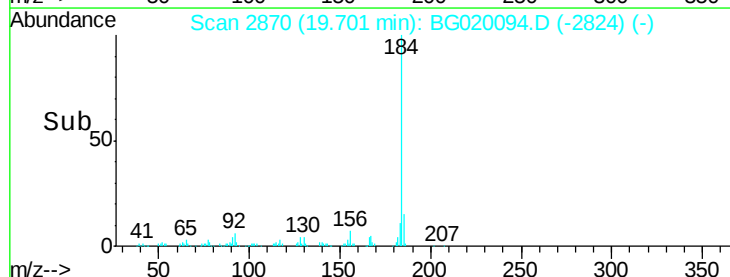
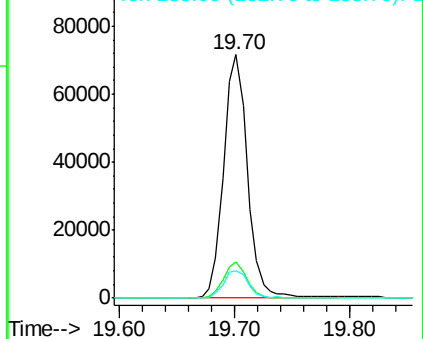
183 11.3 10.1 15.1



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

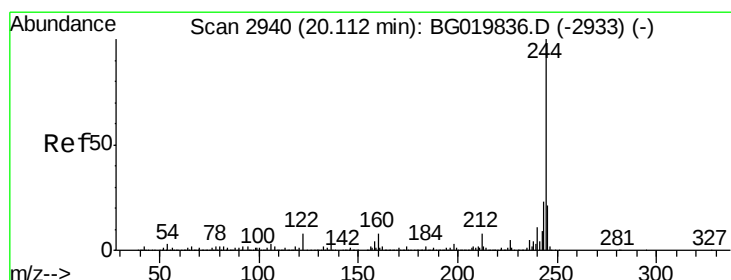
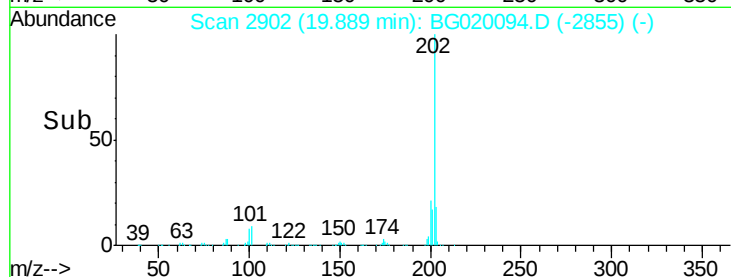
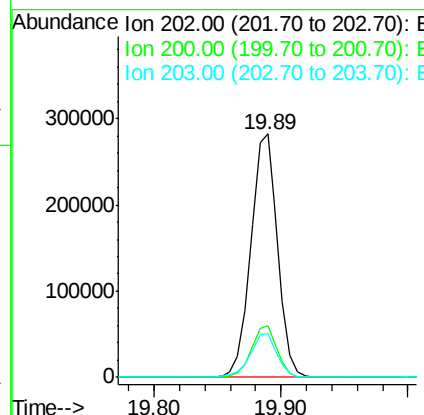
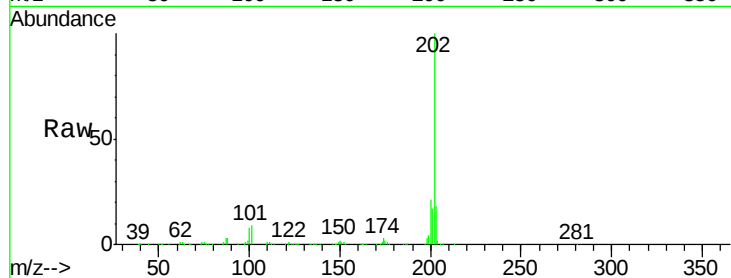




#77  
 Pyrene  
 Concen: 40.77 ng  
 RT: 19.89 min Scan# 2902  
 Delta R.T. -0.02 min  
 Lab File: BG020094.D  
 Acq: 11 Dec 2015 4:07

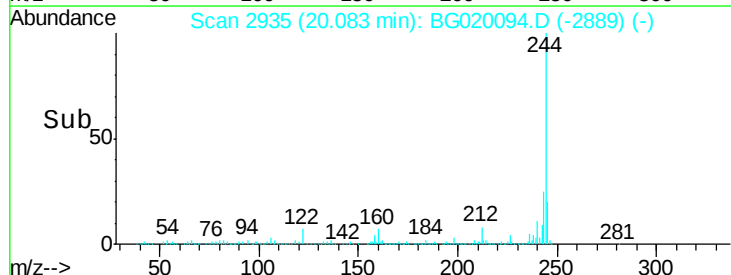
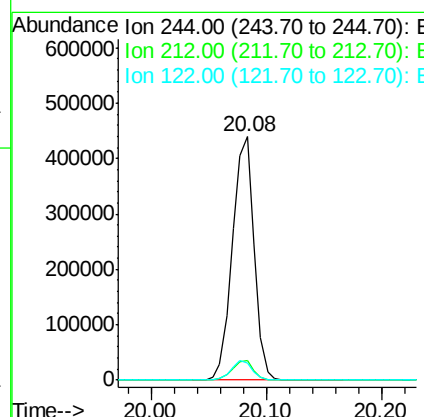
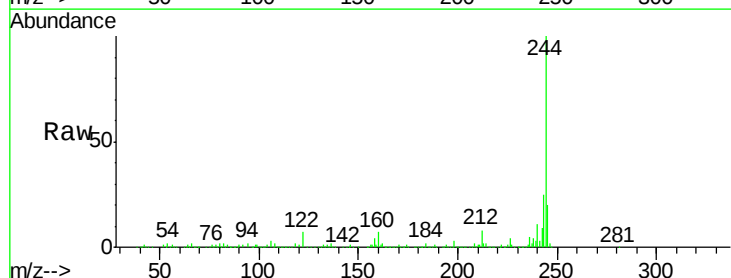
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB87183BS

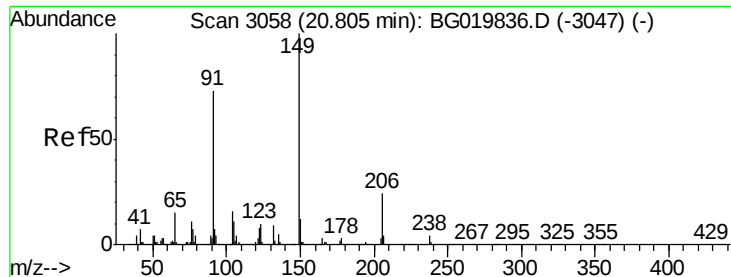
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.2  | 19.4  | 29.0  |
| 203     | 17.8  | 15.5  | 23.3  |



#78  
 Terphenyl-d14  
 Concen: 80.74 ng  
 RT: 20.08 min Scan# 2935  
 Delta R.T. -0.03 min  
 Lab File: BG020094.D  
 Acq: 11 Dec 2015 4:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 8.0   | 6.9   | 10.3  |
| 122     | 7.2   | 10.2  | 15.2# |





#79

Butylbenzylphthalate

Concen: 39.20 ng

RT: 20.76 min Scan# 3051

Delta R.T. -0.04 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

Instrument :

BNA\_G

ClientSampleId :

PB87183BS

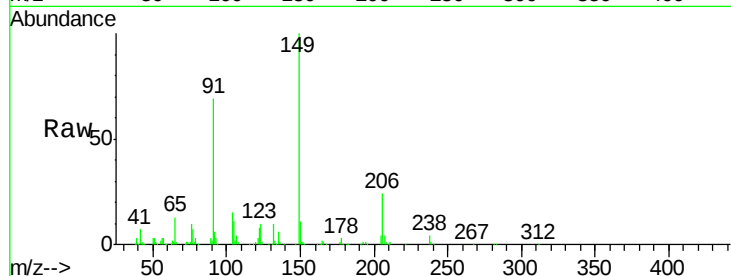
Tgt Ion:149 Resp: 155154

Ion Ratio Lower Upper

149 100

91 68.9 58.1 87.1

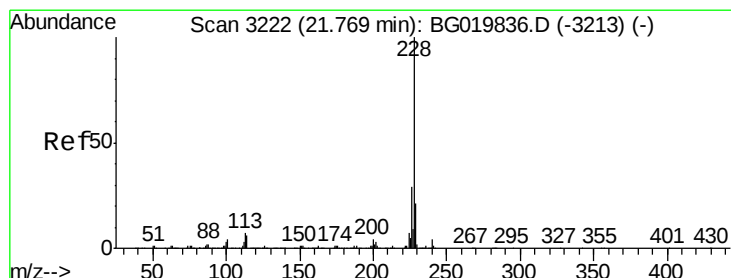
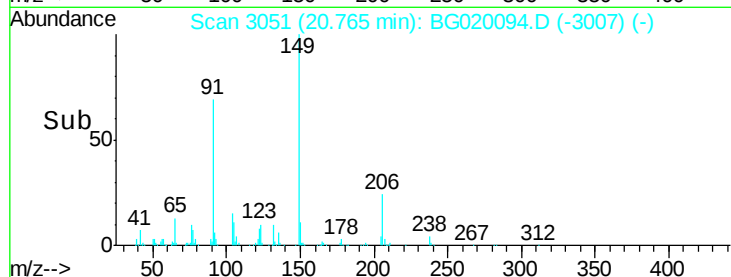
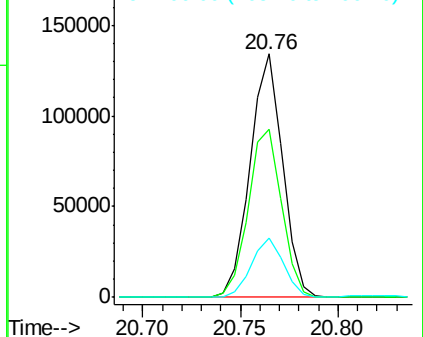
206 24.2 17.8 26.8



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BG

Ion 206.00 (205.70 to 206.70): E



#80

Benzo(a)anthracene

Concen: 39.78 ng

RT: 21.73 min Scan# 3216

Delta R.T. -0.03 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

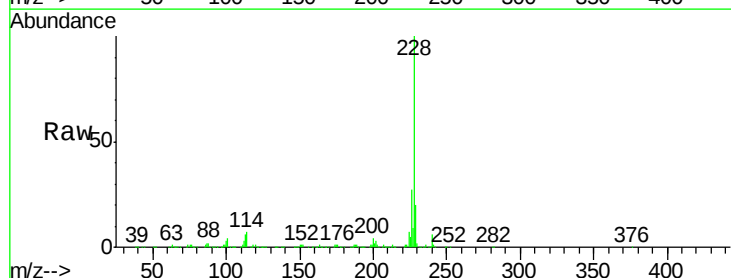
Tgt Ion:228 Resp: 418014

Ion Ratio Lower Upper

228 100

226 27.2 23.4 35.0

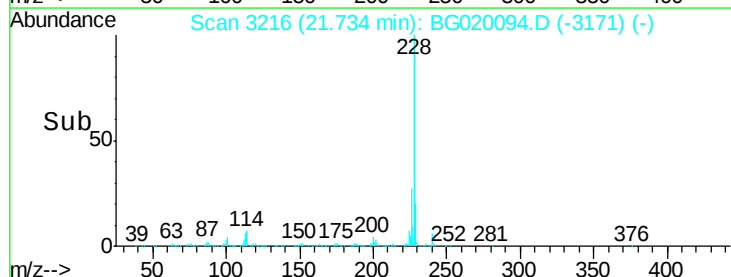
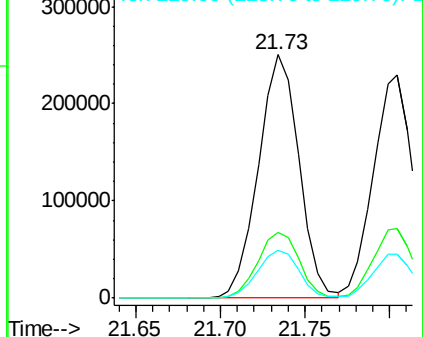
229 19.8 16.6 25.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

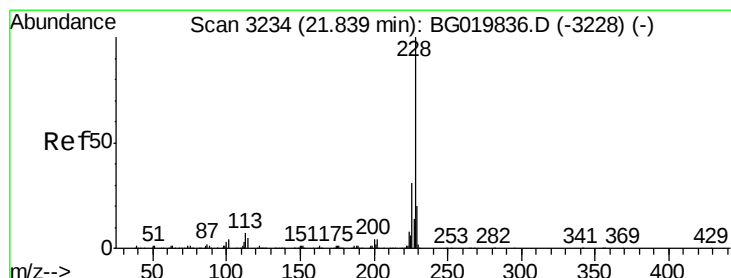
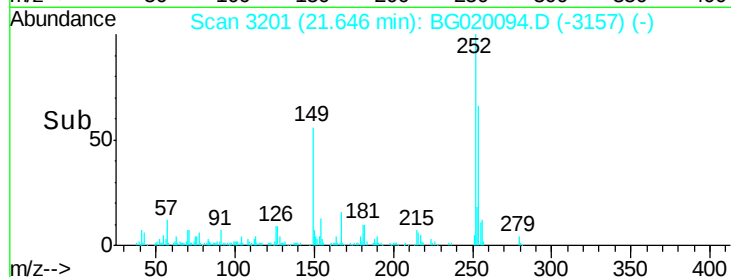
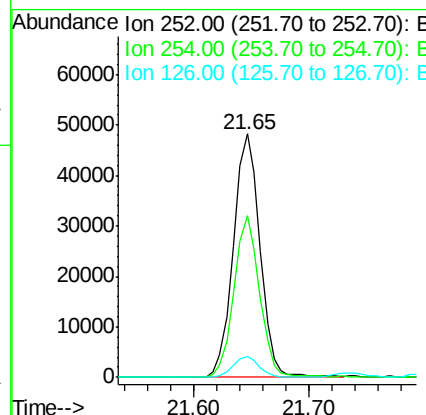
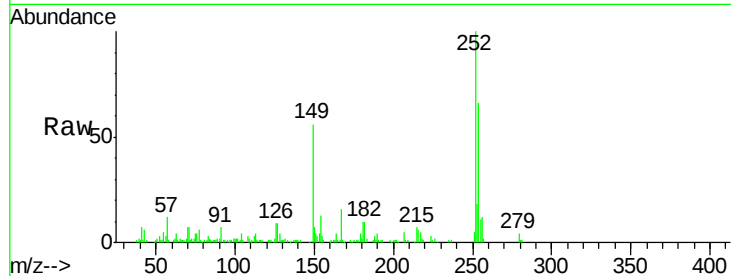




#81  
 3,3'-Dichlorobenzidine  
 Concen: 19.24 ng  
 RT: 21.65 min Scan# 3201  
 Delta R.T. -0.04 min  
 Lab File: BG020094.D  
 Acq: 11 Dec 2015 4:07

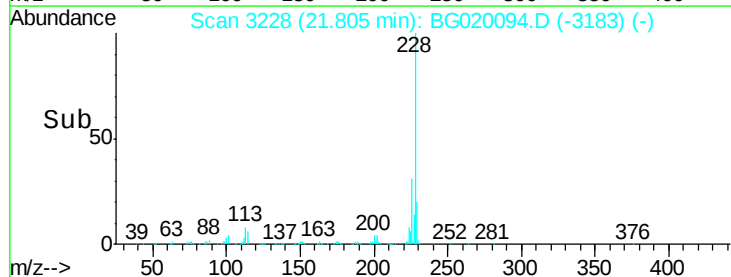
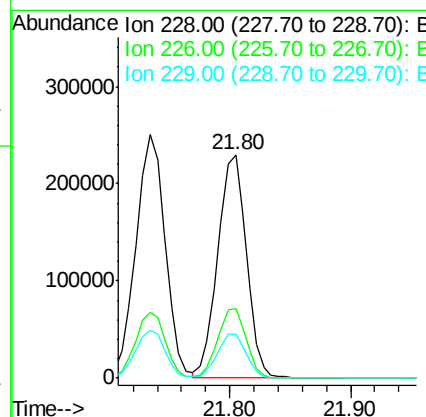
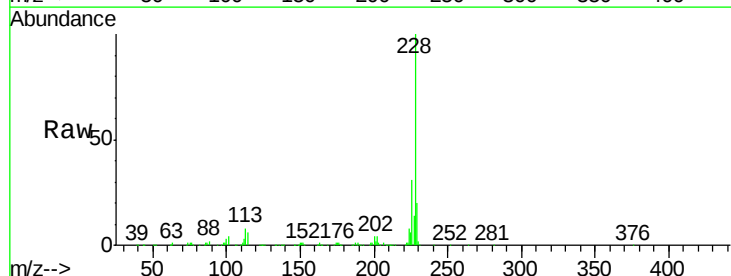
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB87183BS

Tgt Ion: 252 Resp: 77015  
 Ion Ratio Lower Upper  
 252 100  
 254 66.4 52.5 78.7  
 126 8.8 8.5 12.7



#82  
 Chrysene  
 Concen: 37.65 ng  
 RT: 21.80 min Scan# 3228  
 Delta R.T. -0.03 min  
 Lab File: BG020094.D  
 Acq: 11 Dec 2015 4:07

Tgt Ion: 228 Resp: 375653  
 Ion Ratio Lower Upper  
 228 100  
 226 30.9 26.7 40.1  
 229 19.9 17.0 25.6

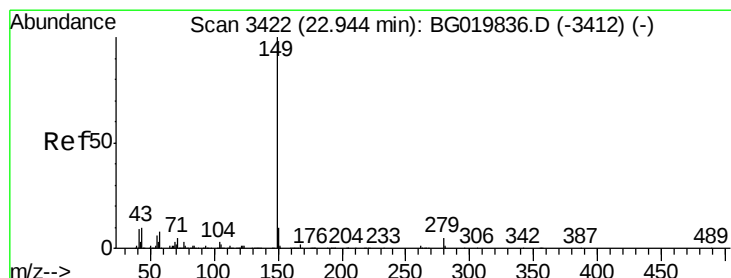
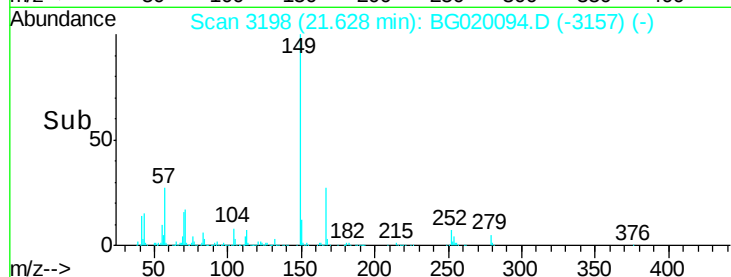
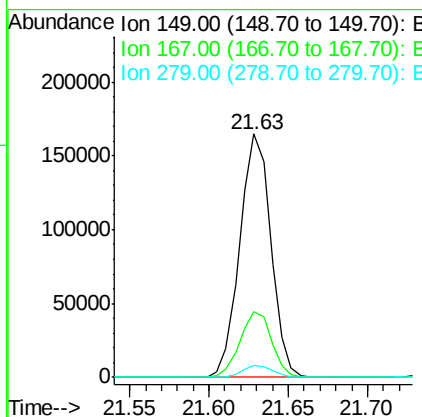
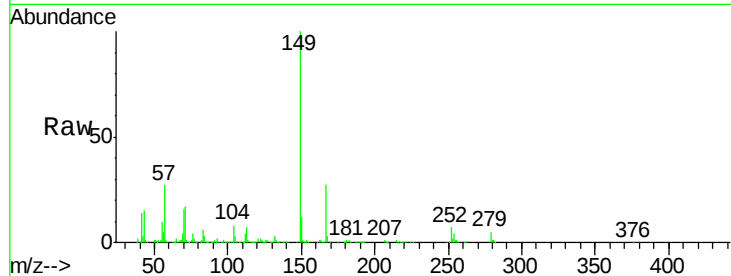




#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 38.60 ng  
 RT: 21.63 min Scan# 3198  
 Delta R.T. -0.06 min  
 Lab File: BG020094.D  
 Acq: 11 Dec 2015 4:07

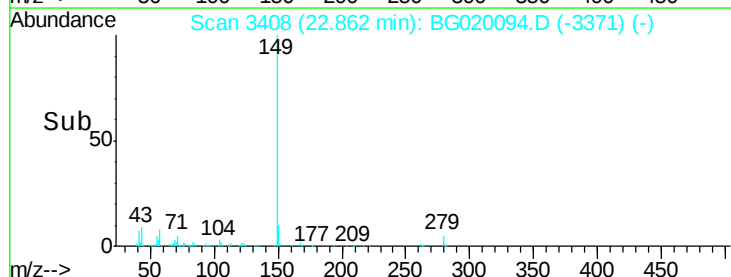
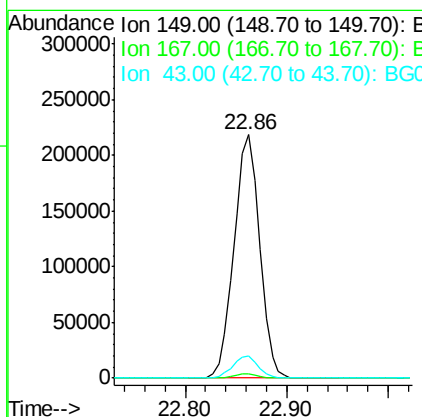
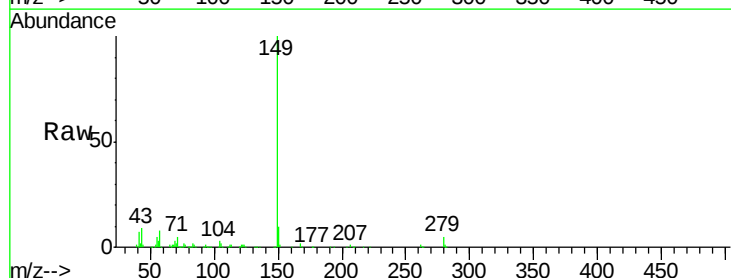
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB87183BS

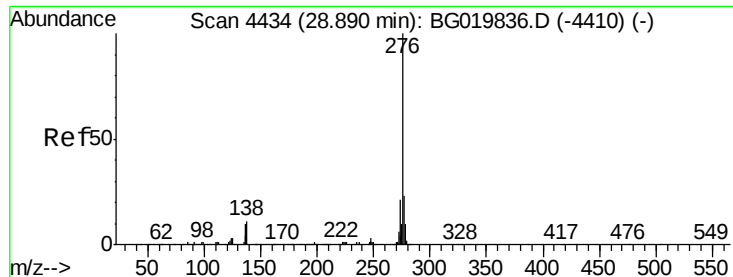
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 27.2  | 23.8  | 35.8  |
| 279     | 4.7   | 3.4   | 5.2   |



#84  
 Di-n-octyl phthalate  
 Concen: 40.64 ng  
 RT: 22.86 min Scan# 3408  
 Delta R.T. -0.08 min  
 Lab File: BG020094.D  
 Acq: 11 Dec 2015 4:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 1.7   | 1.2   | 1.8   |
| 43      | 9.2   | 5.9   | 8.9   |





#85

Indeno(1,2,3-cd)pyrene

Concen: 37.48 ng

RT: 28.78 min Scan# 4415

Delta R.T. -0.11 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

Instrument :

BNA\_G

ClientSampleId :

PB87183BS

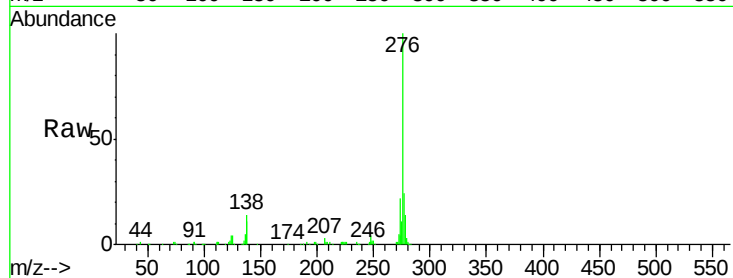
Tgt Ion:276 Resp: 411902

Ion Ratio Lower Upper

276 100

138 6.9 0.0 0.0#

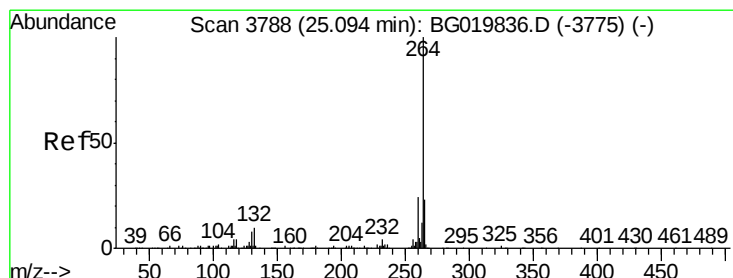
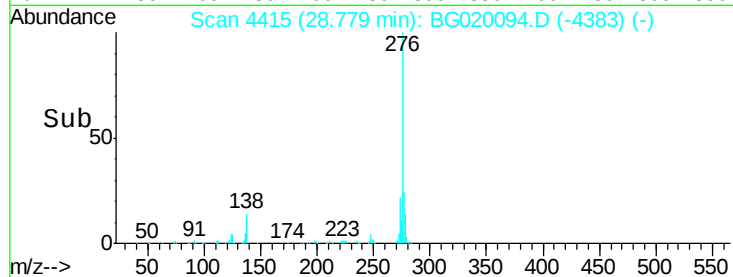
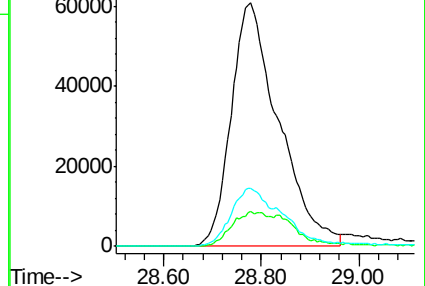
277 25.5 0.0 0.0#



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: 25.03 min Scan# 3777

Delta R.T. -0.06 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

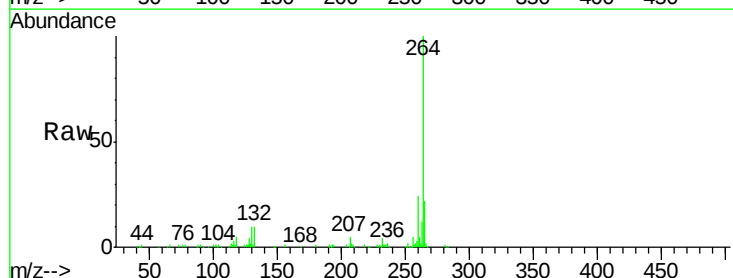
Tgt Ion:264 Resp: 159070

Ion Ratio Lower Upper

264 100

260 24.3 18.5 27.7

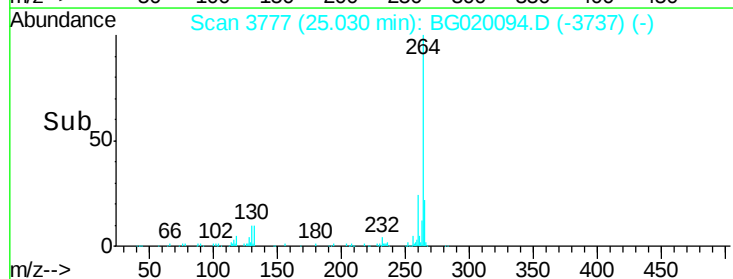
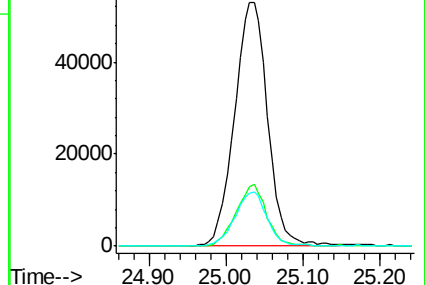
265 21.6 17.2 25.8



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

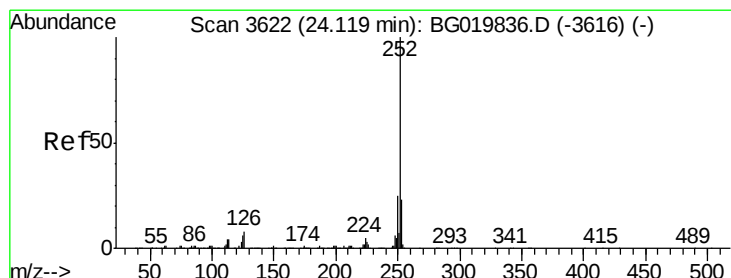
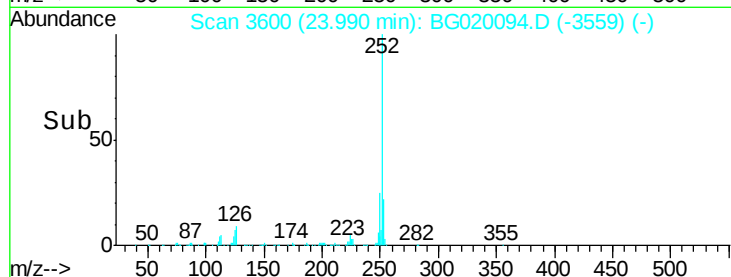
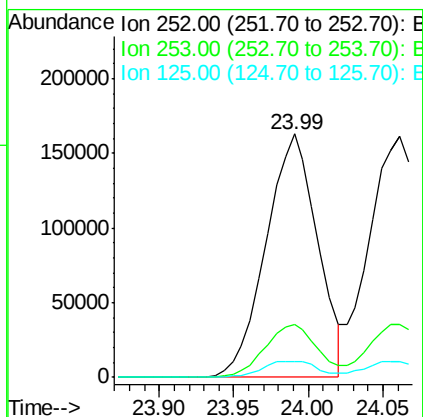
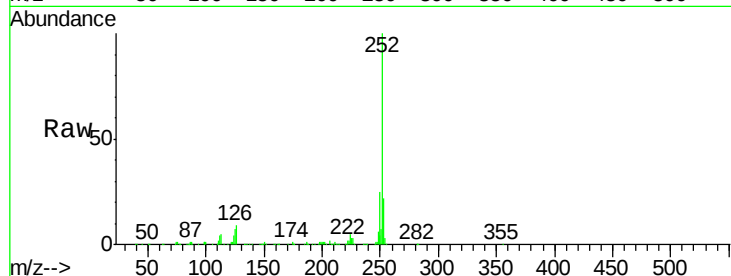




#87  
Benzo(b)fluoranthene  
Concen: 38.77 ng  
RT: 23.99 min Scan# 3600  
Delta R.T. -0.06 min  
Lab File: BG020094.D  
Acq: 11 Dec 2015 4:07

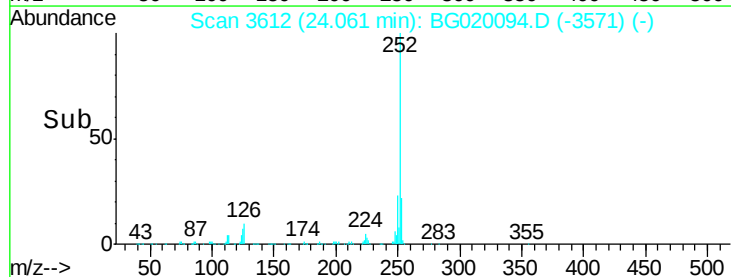
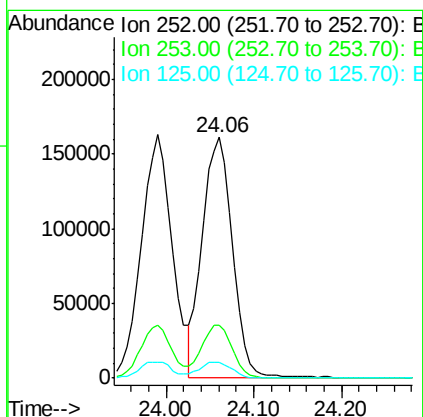
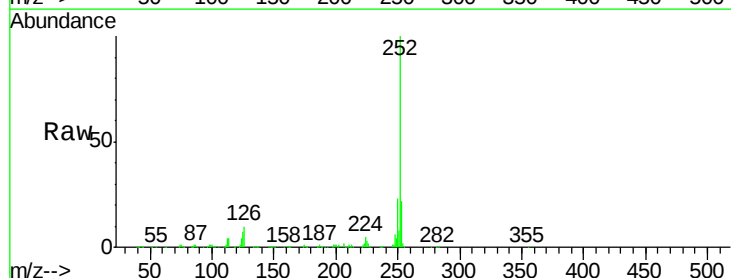
Instrument :  
BNA\_G  
ClientSampleId :  
PB87183BS

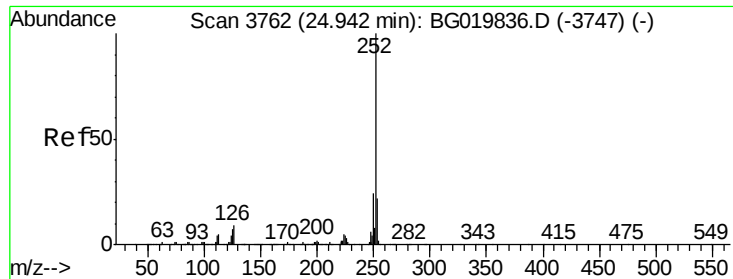
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.5  | 19.1  | 28.7  |
| 125     | 6.6   | 8.9   | 13.3  |



#88  
Benzo(k)fluoranthene  
Concen: 38.62 ng  
RT: 24.06 min Scan# 3612  
Delta R.T. -0.06 min  
Lab File: BG020094.D  
Acq: 11 Dec 2015 4:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.0  | 19.0  | 28.4  |
| 125     | 6.6   | 8.9   | 13.3  |





#89

Benzo(a)pyrene

Concen: 39.85 ng

RT: 24.88 min Scan# 3751

Delta R.T. -0.06 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

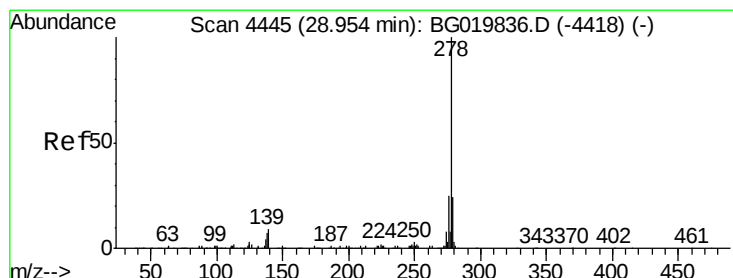
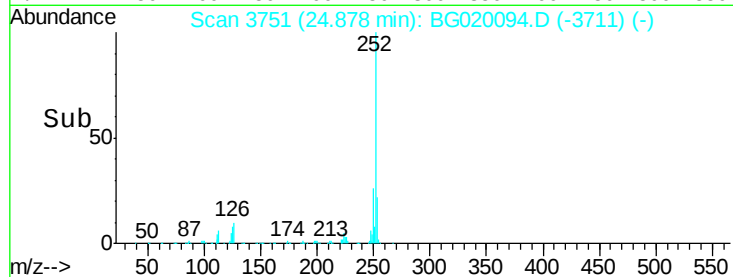
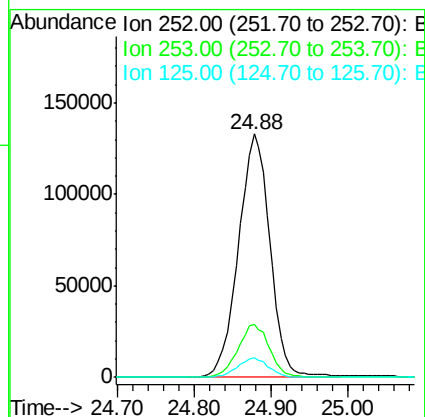
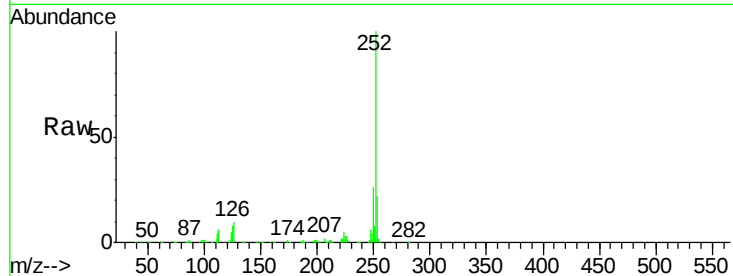
Instrument :

BNA\_G

ClientSampleId :

PB87183BS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 381397 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 21.7  | 18.7  | 28.1   |
| 125       | 8.0   | 9.1   | 13.7#  |



#90

Dibenzo(a,h)anthracene

Concen: 36.56 ng

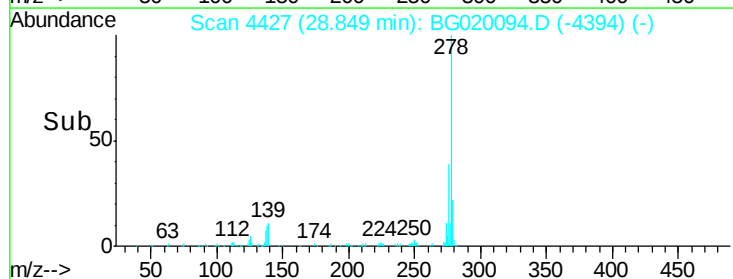
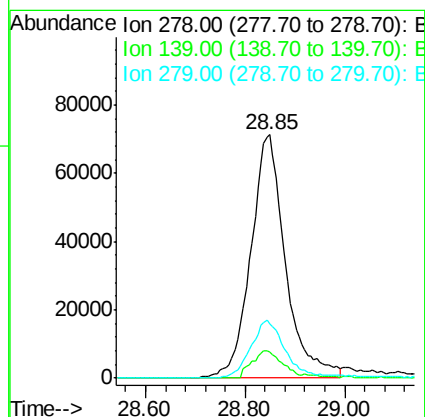
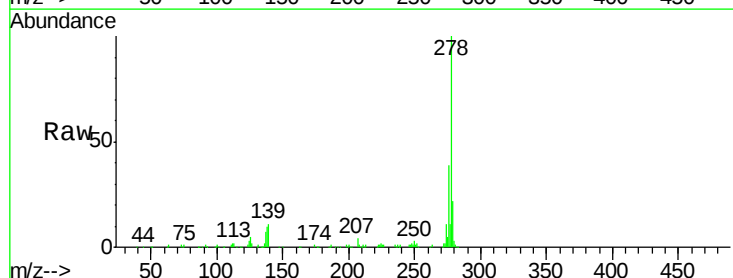
RT: 28.85 min Scan# 4427

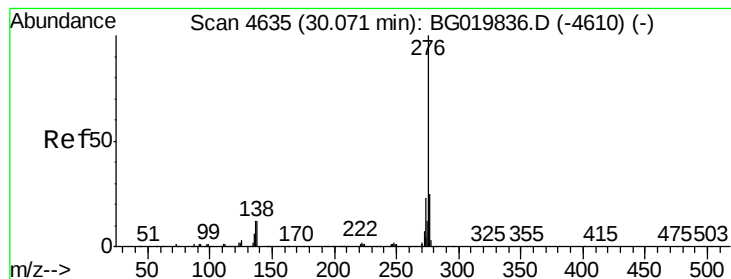
Delta R.T. -0.11 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 278   | Resp: | 345695 |
| Ion Ratio | Lower | Upper |        |
| 278       | 100   |       |        |
| 139       | 10.6  | 13.8  | 20.6#  |
| 279       | 22.1  | 19.4  | 29.0   |





#91

Benzo(g,h,i)perylene

Concen: 33.72 ng

RT: 29.94 min Scan# 4613

Delta R.T. -0.13 min

Lab File: BG020094.D

Acq: 11 Dec 2015 4:07

Instrument :

BNA\_G

ClientSampleId :

PB87183BS

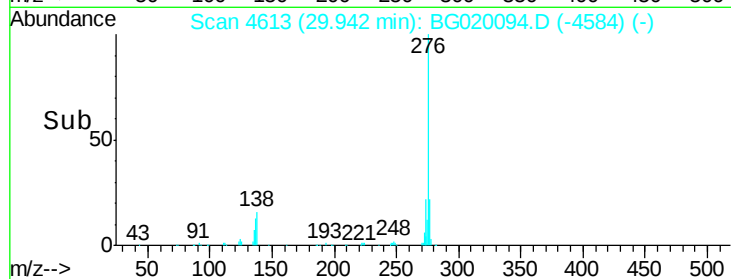
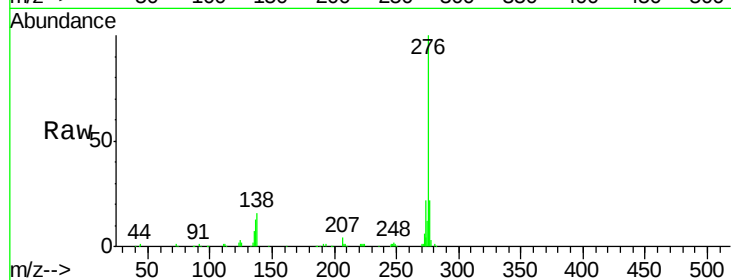
Tgt Ion: 276 Resp: 313128

Ion Ratio Lower Upper

276 100

277 21.9 18.4 27.6

138 16.0 17.4 26.0#



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

