

Data Path : Z:\HPCHEM1\BNA G\DATA\BG022118\  
 Data File : BG032774.D  
 Acq On : 22 Feb 2018 1:38  
 Operator : SJ/JU  
 Sample : J1623-04  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP-1-2

Quant Time: Feb 22 06:18:52 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022118.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Feb 21 15:45:53 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.93  | 152  | 76872    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 11.82 | 136  | 334113   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 15.54 | 164  | 188438   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 18.27 | 188  | 420774   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 22.63 | 240  | 395399   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 26.45 | 264  | 423570   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 6.34  | 112  | 599410   | 124.75 | ng    | 0.00     |
| 7) Phenol-d6                | 8.02  | 99   | 710407   | 106.07 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 10.12 | 82   | 499078   | 101.48 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 17.02 | 330  | 291377   | 147.06 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 14.18 | 172  | 1124680  | 86.08  | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.79 | 244  | 1600163  | 90.92  | ng    | 0.00     |

| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 2) 1,4-Dioxane                 | 3.65  | 88   | 10344    | 4.960  | ng    | # 1    |
| 4) n-Nitrosodimethylamine      | 4.36  | 42   | 401      | 0.174  | ng    | # 1    |
| 6) Aniline                     | 8.44  | 93   | 1036     | 0.114  | ng    | # 1    |
| 9) Benzaldehyde                | 8.03  | 77   | 1197     | 0.310  | ng    | # 54   |
| 10) Phenol                     | 8.44  | 94   | 1414     | 0.209  | ng    | # 1    |
| 11) bis(2-Chloroethyl)ether    | 8.44  | 93   | 1036     | 0.188  | ng    | # 1    |
| 15) Benzyl Alcohol             | 9.27  | 79   | 8779     | 1.783  | ng    | # 36   |
| 16) 2,2'-oxybis(1-Chloropropan | 9.46  | 45   | 76       | 0.008  | ng    | # 75   |
| 18) Hexachloroethane           | 10.16 | 117  | 530      | 0.251  | ng    | # 1    |
| 19) n-Nitroso-di-n-propylamine | 10.13 | 70   | 65336    | 13.818 | ng    | # 81   |
| 22) Acetophenone               | 9.75  | 105  | 1149     | 0.136  | ng    | # 74   |
| 24) Nitrobenzene               | 10.13 | 77   | 1540     | 6.631  | ng    | # 33   |
| 27) 2,4-Dimethylphenol         | 10.95 | 122  | 324      | 0.064  | ng    | # 1    |
| 30) 1,2,4-Trichlorobenzene     | 11.67 | 180  | 64       | 0.012  | ng    | # 12   |
| 31) Naphthalene                | 11.87 | 128  | 49608    | 2.841  | ng    | # 99   |
| 32) Benzoic acid               | 10.96 | 122  | 216      | 5.898  | ng    | # 51   |
| 33) 4-Chloroaniline            | 11.87 | 127  | 6886     | 0.882  | ng    | # 36   |
| 35) Caprolactam                | 12.66 | 113  | 947      | 0.512  | ng    | # 89   |
| 37) 2-Methylnaphthalene        | 13.41 | 142  | 6175     | 0.489  | ng    | # 83   |
| 45) 1,1'-Biphenyl              | 14.38 | 154  | 4872     | 0.296  | ng    | # 95   |
| 47) 2-Nitroaniline             | 14.18 | 65   | 1920     | 10.328 | ng    | # 1    |
| 48) Acenaphthylene             | 15.27 | 152  | 3759     | 0.187  | ng    | # 95   |
| 50) 2,6-Dinitrotoluene         | 15.54 | 165  | 24441    | 16.416 | ng    | # 20   |
| 51) Acenaphthene               | 15.61 | 154  | 1475     | 0.118  | ng    | # 90   |
| 52) 3-Nitroaniline             | 15.72 | 138  | 60       | 7.559  | ng    | # 1    |
| 54) Dibenzofuran               | 15.93 | 168  | 1734     | 0.097  | ng    | # 92   |
| 55) 4-Nitrophenol              | 15.93 | 139  | 564      | 7.277  | ng    | # 1    |
| 56) 2,4-Dinitrotoluene         | 15.54 | 165  | 24441    | 14.614 | ng    | # 18   |
| 57) Fluorene                   | 16.57 | 166  | 3520     | 0.239  | ng    | # 88   |
| 59) Diethylphthalate           | 16.30 | 149  | 4441     | 0.263  | ng    | # 92   |
| 62) Azobenzene                 | 17.01 | 77   | 1825     | 0.121  | ng    | # 20   |
| 64) 4,6-Dinitro-2-methylphenol | 17.02 | 198  | 930      | 5.887  | ng    | # 1    |
| 65) n-Nitrosodiphenylamine     | 17.01 | 169  | 11757    | 0.859  | ng    | # 49   |
| 66) 4-Bromophenyl-phenylether  | 17.01 | 248  | 20203    | 4.541  | ng    | # 1    |

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 Response via : Initial Calibration

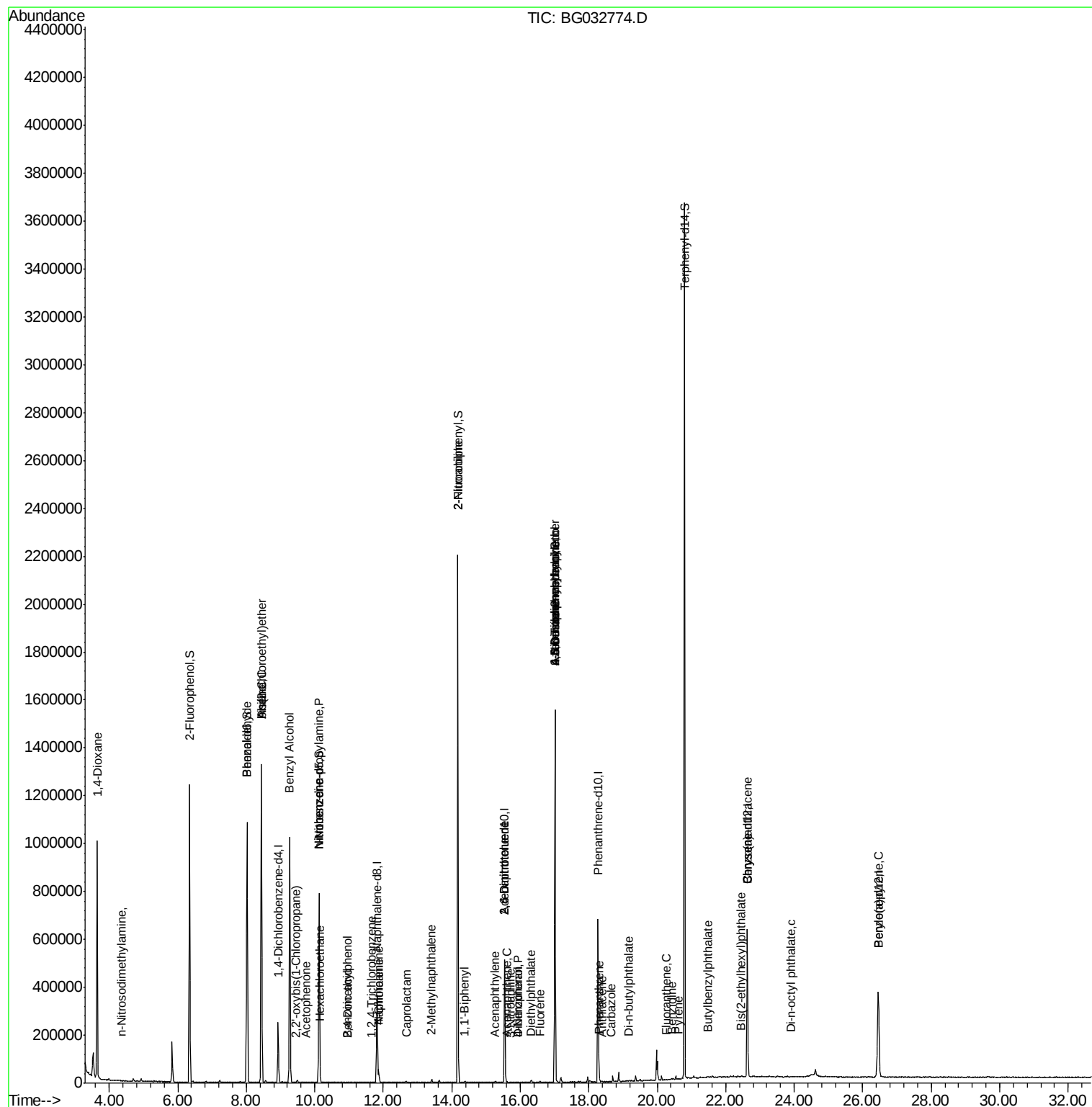
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| -----                          |       |      |          |       |       |          |
| 70) Phenanthrene               | 18.31 | 178  | 7729     | 0.329 | nq    | # 86     |
| 71) Anthracene                 | 18.40 | 178  | 997      | 0.042 | nq    | # 59     |
| 72) Carbazole                  | 18.65 | 167  | 64       | 0.003 | nq    | # 59     |
| 73) Di-n-butylphthalate        | 19.17 | 149  | 2778     | 0.097 | nq    | # 96     |
| 74) Fluoranthene               | 20.26 | 202  | 742      | 0.029 | nq    | # 65     |
| 76) Benzidine                  | 20.42 | 184  | 1216     | 0.090 | nq    | # 73     |
| 77) Pyrene                     | 20.62 | 202  | 739      | 0.027 | nq    | # 57     |
| 79) Butylbenzylphthalate       | 21.49 | 149  | 667      | 0.054 | nq    | # 74     |
| 80) Benzo(a)anthracene         | 22.63 | 228  | 1128     | 0.044 | nq    | # 50     |
| 82) Chrysene                   | 22.63 | 228  | 1128     | 0.047 | nq    | # 49     |
| 83) Bis(2-ethylhexyl)phthalate | 22.46 | 149  | 3226     | 0.176 | nq    | # 76     |
| 84) Di-n-octyl phthalate       | 23.91 | 149  | 226      | 0.008 | nq    | # 1      |
| 89) Benzo(a)pyrene             | 26.44 | 252  | 1682     | 0.071 | nq    | # 71     |
| -----                          |       |      |          |       |       |          |

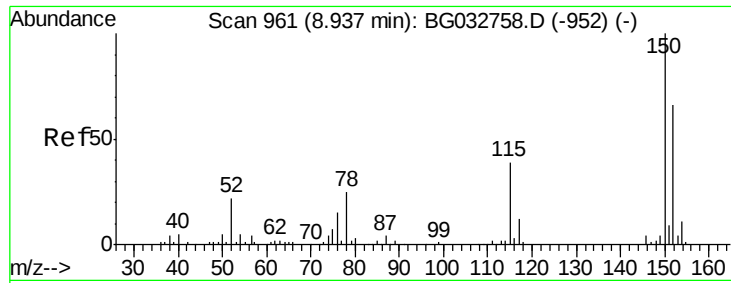
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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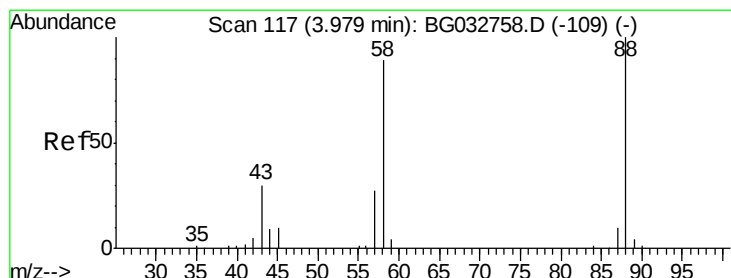
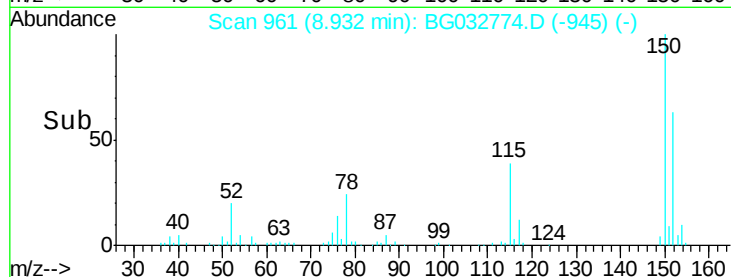
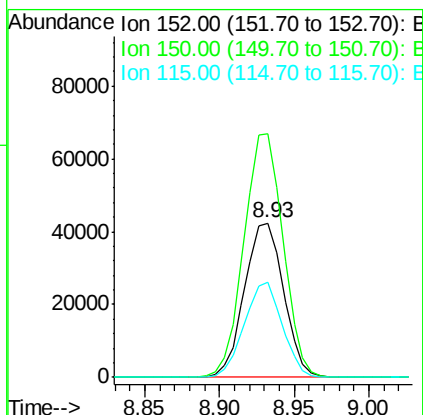
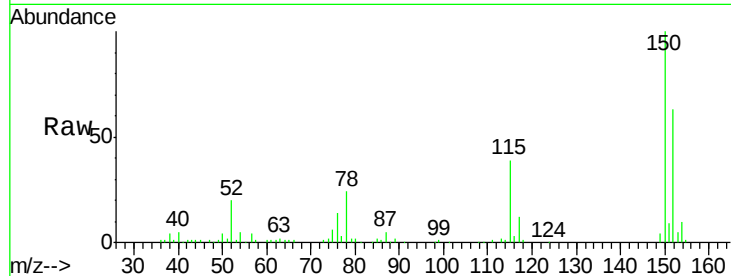


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.93 min Scan# 961  
Delta R.T. -0.00 min  
Lab File: BG032774.D  
Acq: 22 Feb 2018 1:38

Instrument :  
BNA\_G  
ClientSampleId :  
TP-1-2

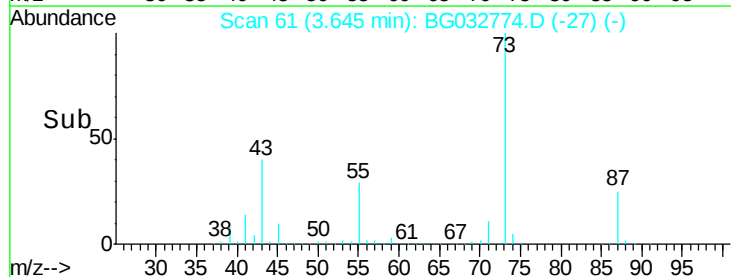
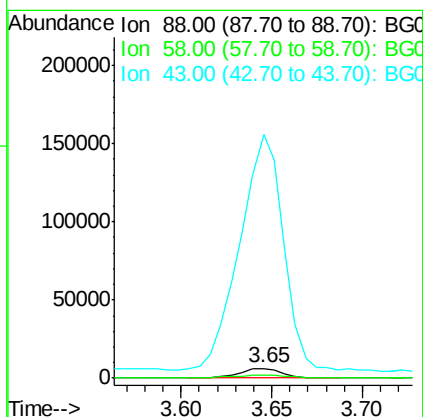
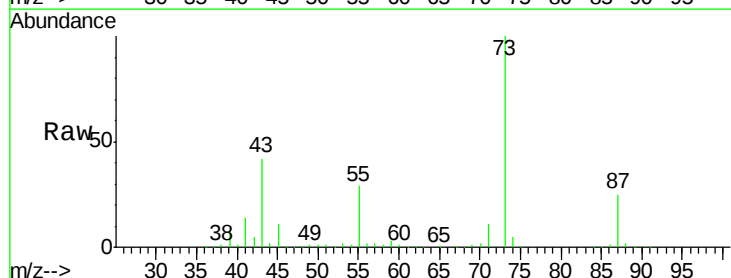
Tot Ion:152 Resp: 76872  
Ion Ratio Lower Upper  
152 100  
150 157.7 126.6 189.8  
115 61.2 53.0 79.4

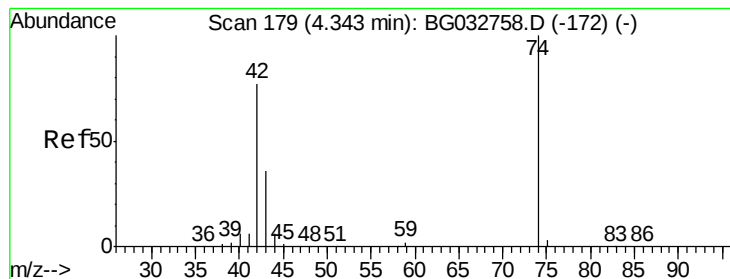


#2

1,4-Dioxane  
Concen: 4.960 ng  
RT: 3.65 min Scan# 61  
Delta R.T. -0.33 min  
Lab File: BG032774.D  
Acq: 22 Feb 2018 1:38

Tgt Ion: 88 Resp: 10344  
Ion Ratio Lower Upper  
88 100  
58 26.2 79.6 119.4#  
43 2566.6 27.4 41.0#





#4

n-Nitrosodimethylamine

Concen: 0.174 ng

RT: 4.36 min Scan# 182

Delta R.T. 0.01 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

Instrument :

BNA\_G

ClientSampled :

TP-1-2

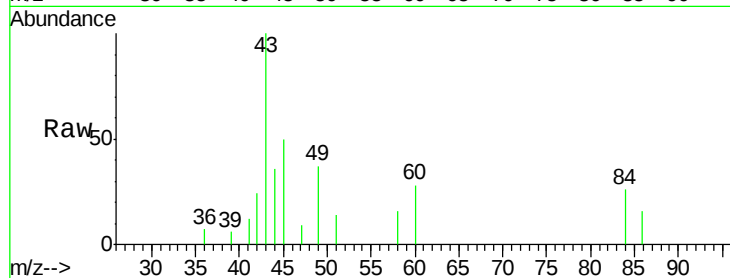
Tot Ion: 42 Resp: 401

Ion Ratio Lower Upper

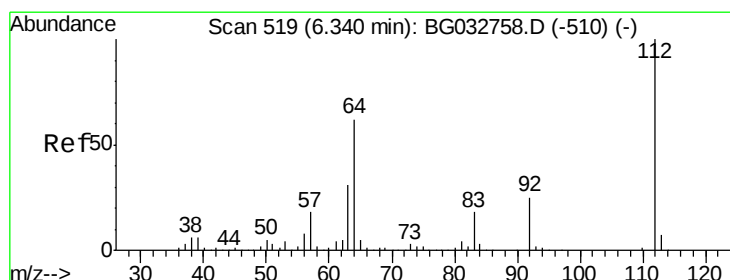
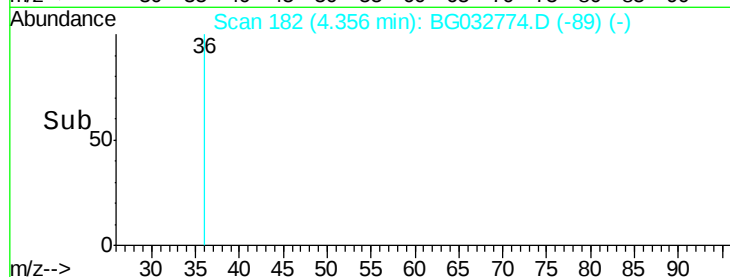
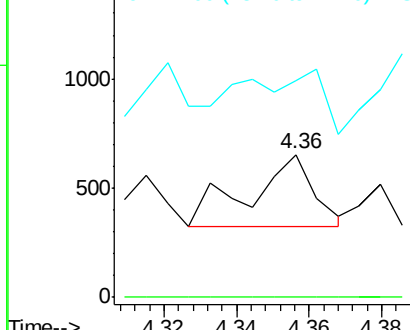
42 100

74 0.0 102.5 153.7#

44 152.1 18.9 28.3#



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: 124.749 ng

RT: 6.34 min Scan# 520

Delta R.T. 0.00 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

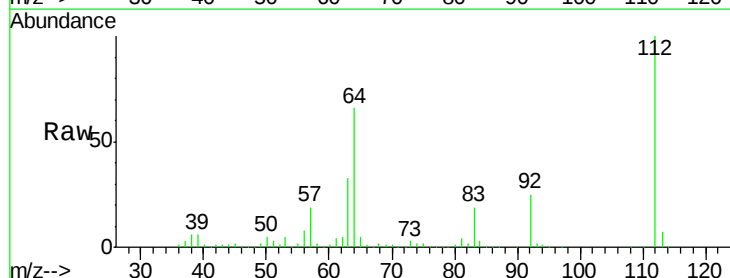
Tgt Ion: 112 Resp: 599410

Ion Ratio Lower Upper

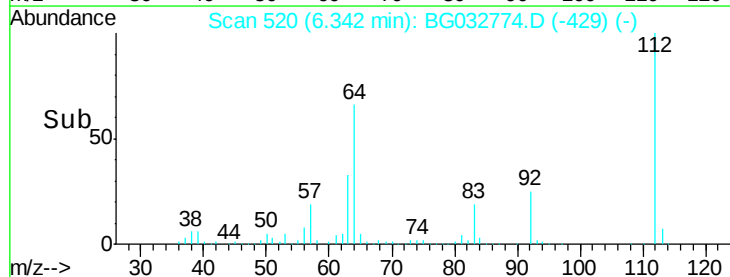
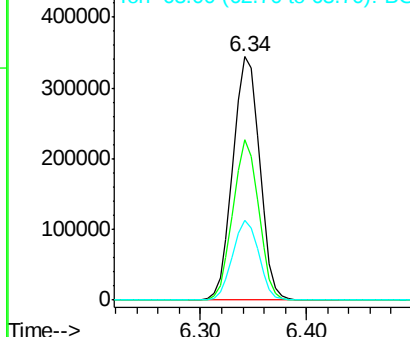
112 100

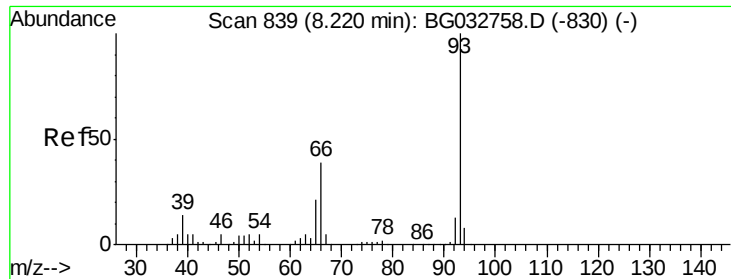
64 65.9 56.3 84.5

63 32.5 30.1 45.1



Abundance Ion 112.00 (111.70 to 112.70): BGC  
Ion 64.00 (63.70 to 64.70): BGC  
Ion 63.00 (62.70 to 63.70): BGC





#6

Aniline

Concen: 0.114 ng

RT: 8.44 min Scan# 877

Delta R.T. 0.22 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

Instrument :

BNA\_G

ClientSampled :

TP-1-2

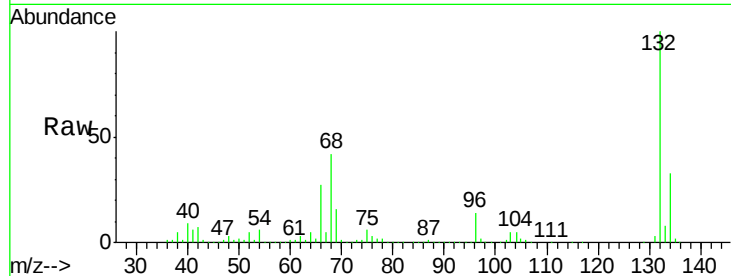
Tot Ion: 93 Resp: 1036

Ion Ratio Lower Upper

93 100

66 17017.1 33.7 50.5#

65 1371.2 16.1 24.1#



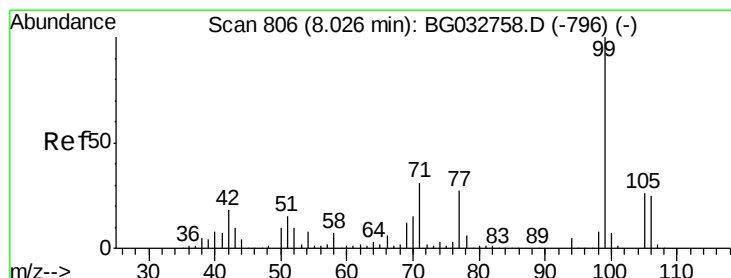
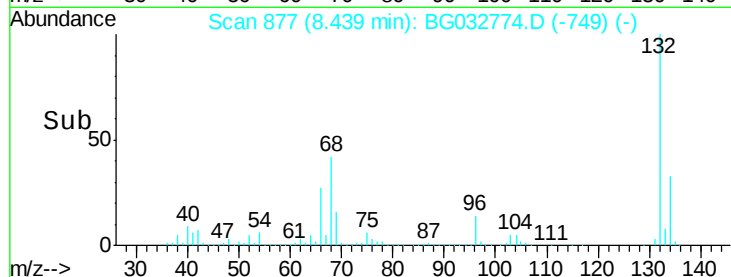
Abundance Ion 93.00 (92.70 to 93.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC

100000

50000

0

Time-->



#7

Phenol-d6

Concen: 106.072 ng

RT: 8.02 min Scan# 806

Delta R.T. -0.00 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

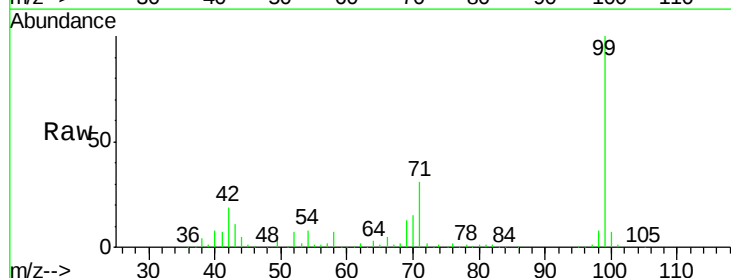
Tgt Ion: 99 Resp: 710407

Ion Ratio Lower Upper

99 100

42 19.2 14.1 21.1

71 30.9 26.1 39.1



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

500000

400000

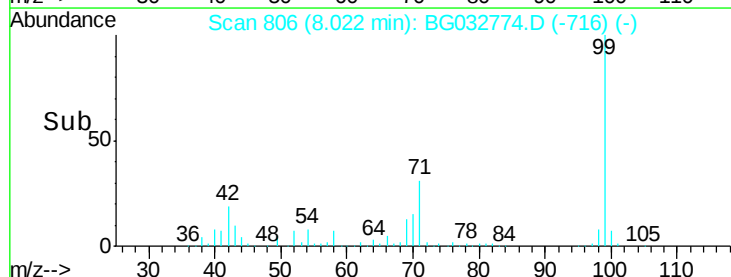
300000

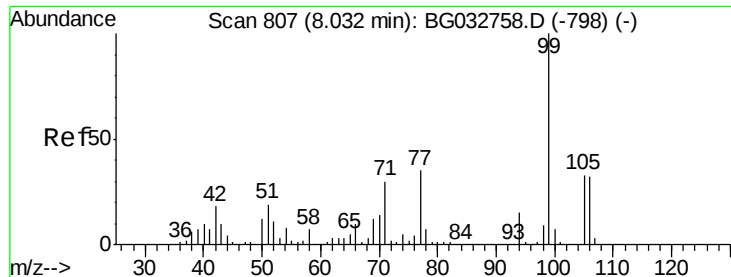
200000

100000

0

Time-->





#9

Benzaldehyde

Concen: 0.310 ng

RT: 8.03 min Scan# 807

Delta R.T. -0.00 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

Instrument :

BNA\_G

ClientSampled :

TP-1-2

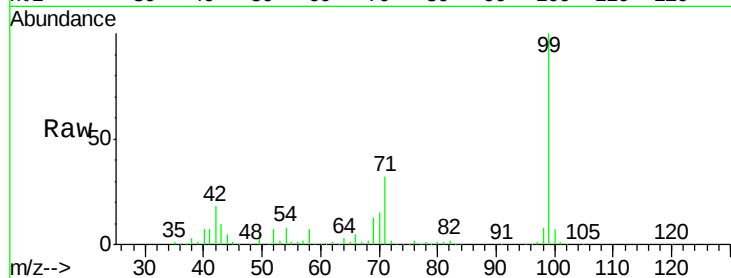
Tot Ion: 77 Resp: 1197

Ion Ratio Lower Upper

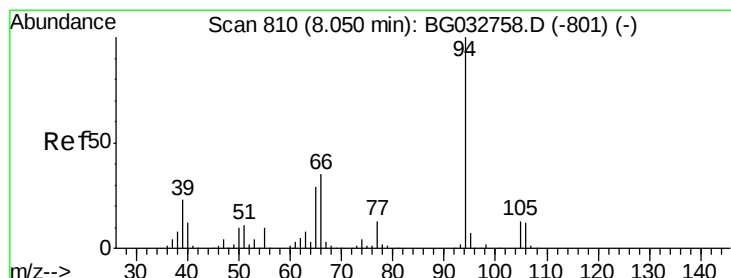
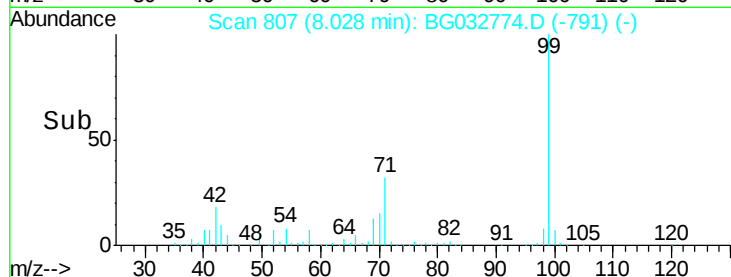
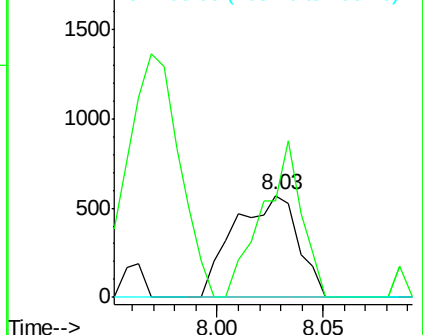
77 100

105 94.7 71.3 111.3

106 0.0 64.2 104.2#



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



#10

Phenol

Concen: 0.209 ng

RT: 8.44 min Scan# 877

Delta R.T. 0.39 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

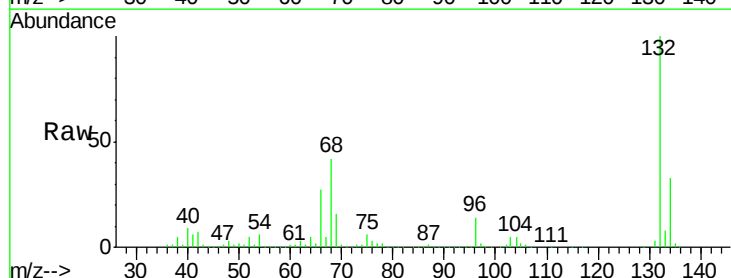
Tgt Ion: 94 Resp: 1414

Ion Ratio Lower Upper

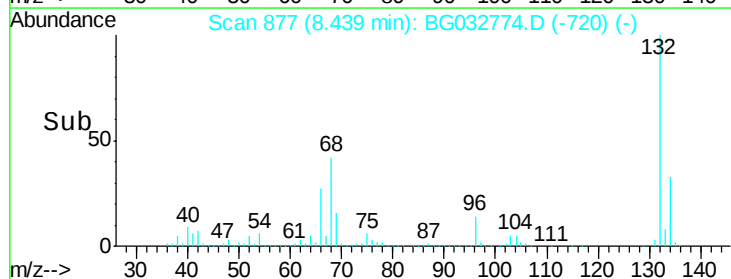
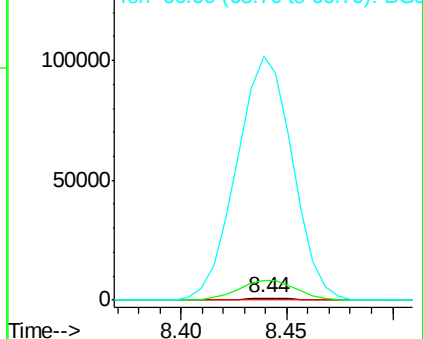
94 100

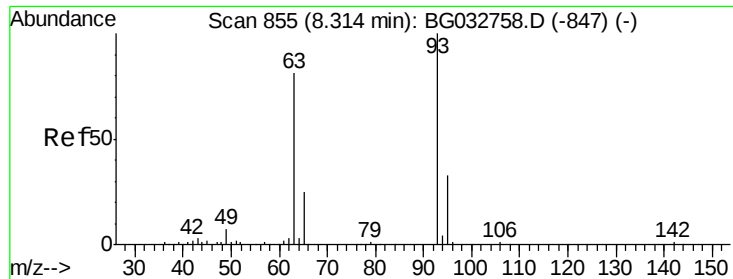
65 976.8 11.9 51.9#

66 12123.2 22.2 62.2#



Abundance Ion 94.00 (93.70 to 94.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC

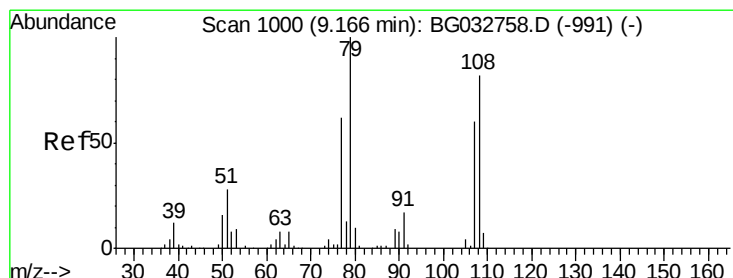
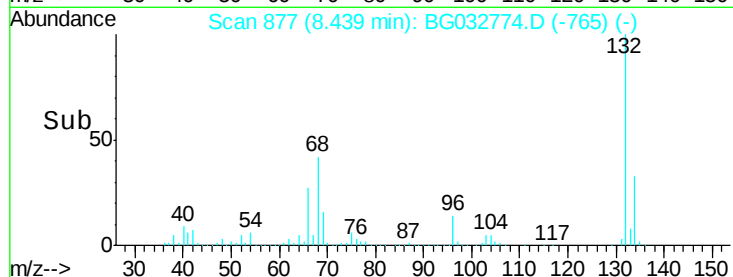
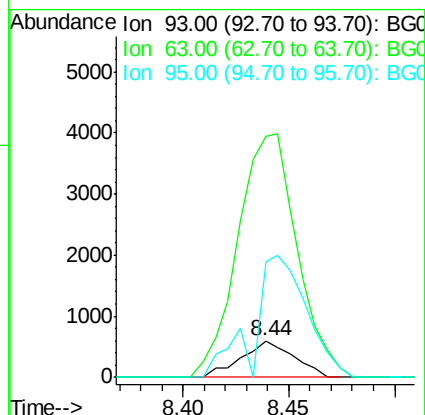
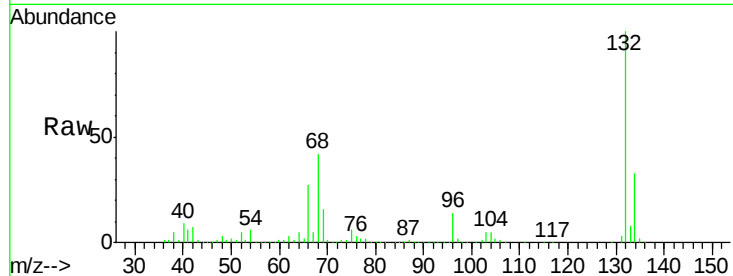




#11  
bis(2-Chloroethyl)ether  
Concen: 0.188 ng  
RT: 8.44 min Scan# 877  
Delta R.T. 0.13 min  
Lab File: BG032774.D  
Acq: 22 Feb 2018 1:38

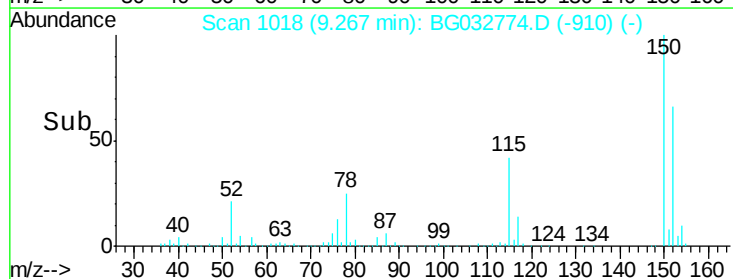
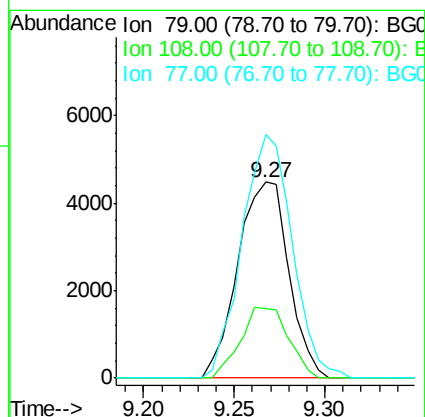
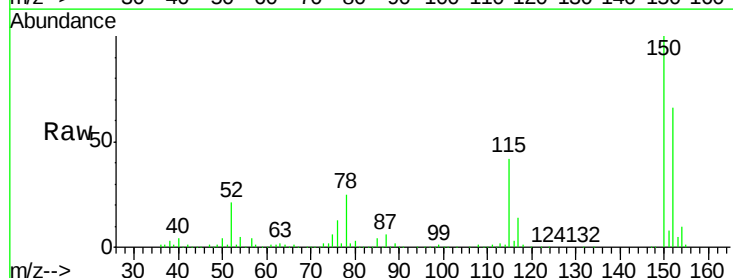
Instrument :  
BNA\_G  
ClientSampled :  
TP-1-2

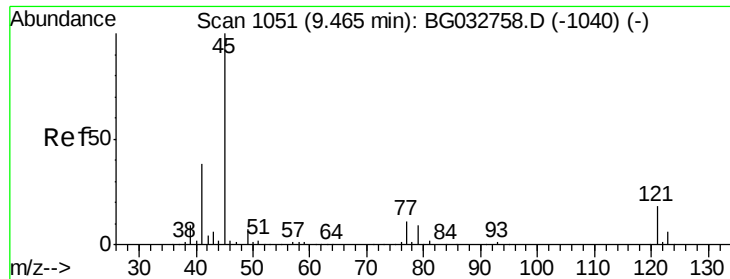
Tot Ion: 93 Resp: 1036  
Ion Ratio Lower Upper  
93 100  
63 662.1 67.1 107.1#  
95 316.2 11.5 51.5#



#15  
Benzyl Alcohol  
Concen: 1.783 ng  
RT: 9.27 min Scan# 1018  
Delta R.T. 0.10 min  
Lab File: BG032774.D  
Acq: 22 Feb 2018 1:38

Tgt Ion: 79 Resp: 8779  
Ion Ratio Lower Upper  
79 100  
108 35.3 57.2 85.8#  
77 124.4 46.1 69.1#





#16

2,2'-oxvbis(1-Chloropropane)

Concen: 0.008 ng

RT: 9.46 min Scan# 1050

Delta R.T. -0.01 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

Instrument :

BNA\_G

ClientSampleId :

TP-1-2

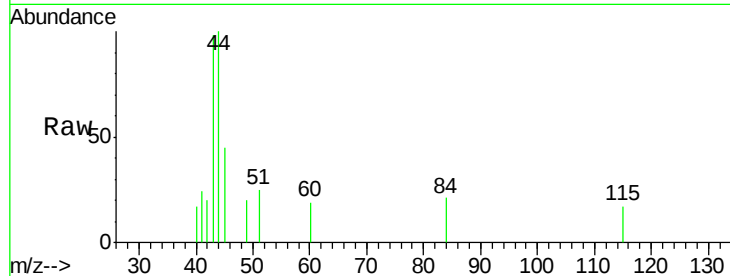
Tot Ion: 45 Resp: 76

Ion Ratio Lower Upper

45 100

77 0.0 0.0 30.2

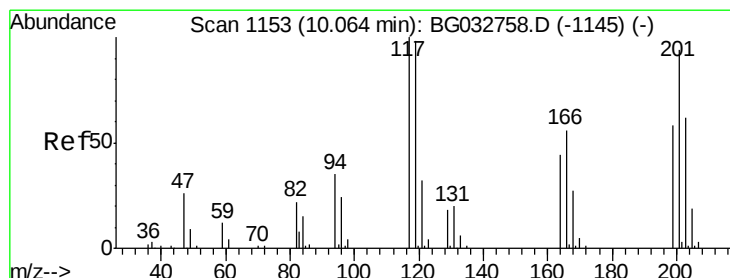
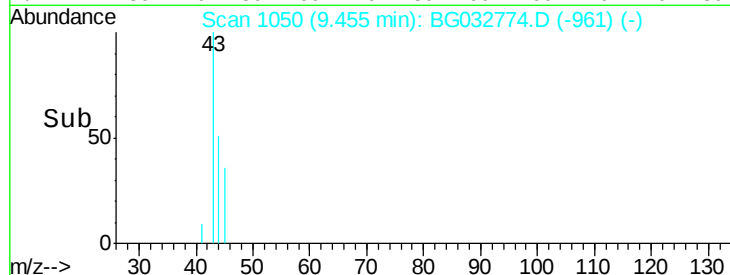
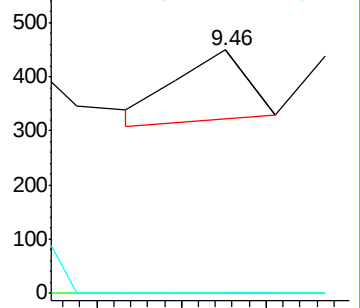
79 0.0 0.0 27.9



Abundance Ion 45.00 (44.70 to 45.70): BGC

Ion 77.00 (76.70 to 77.70): BGC

Ion 79.00 (78.70 to 79.70): BGC



#18

Hexachloroethane

Concen: 0.251 ng

RT: 10.16 min Scan# 1170

Delta R.T. 0.10 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

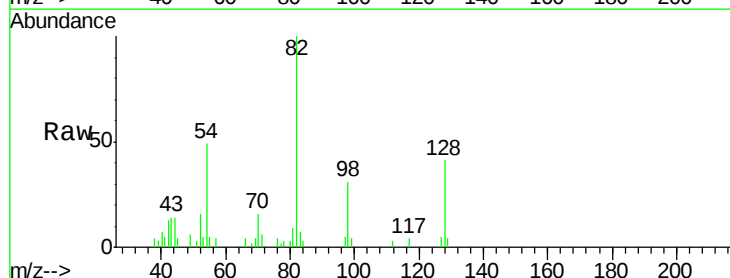
Tgt Ion: 117 Resp: 530

Ion Ratio Lower Upper

117 100

119 0.0 76.7 115.1#

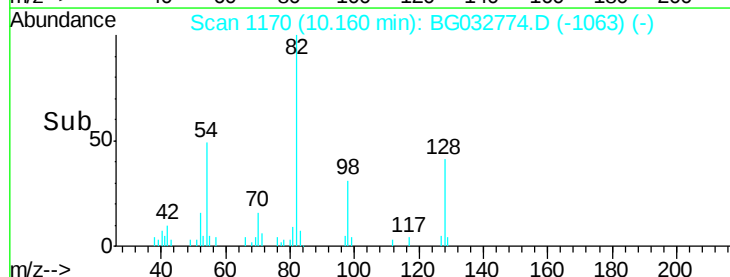
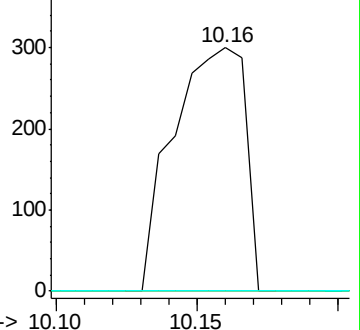
201 0.0 95.7 143.5#

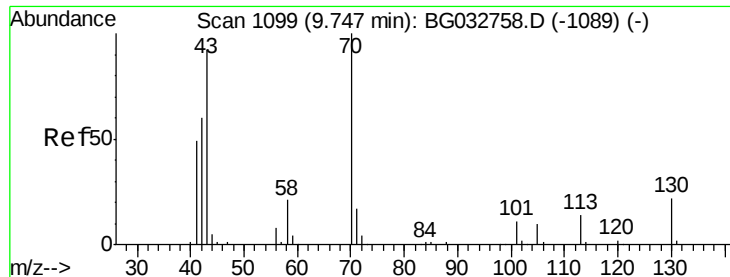


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E

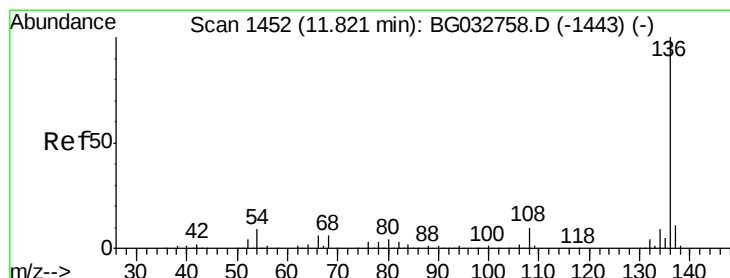
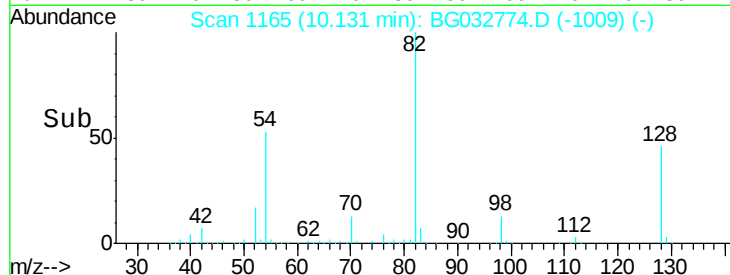
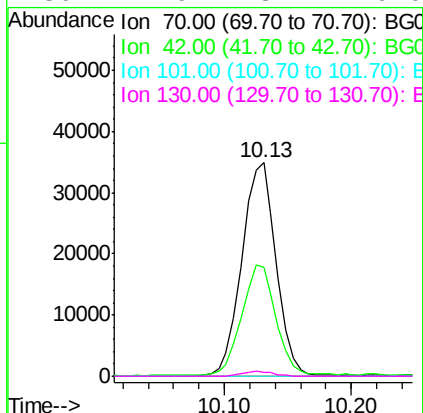
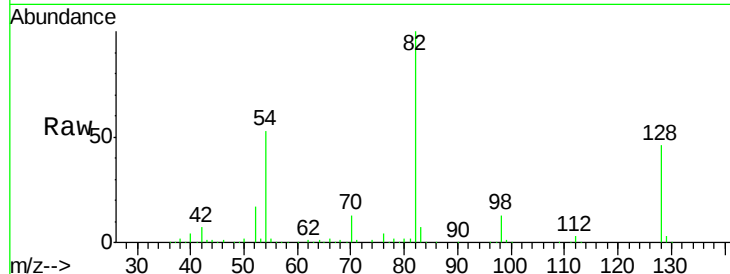




#19  
n-Nitroso-di-n-propylamine  
Concen: 13.818 ng  
RT: 10.13 min Scan# 1165  
Delta R.T. 0.38 min  
Lab File: BG032774.D  
Acq: 22 Feb 2018 1:38

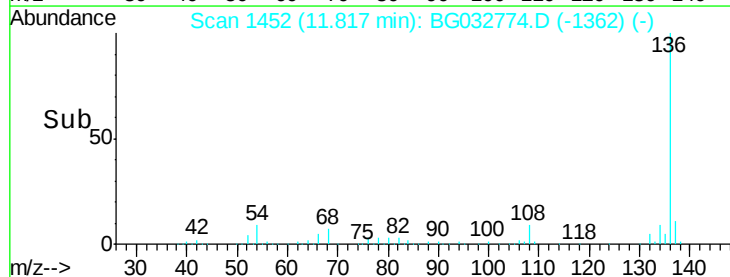
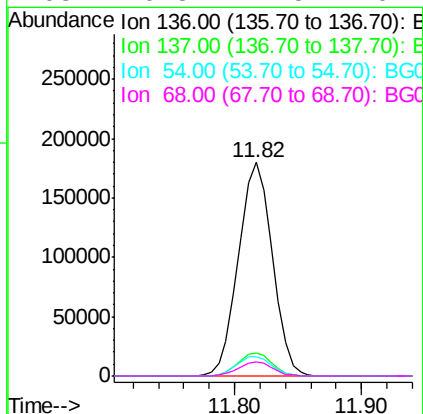
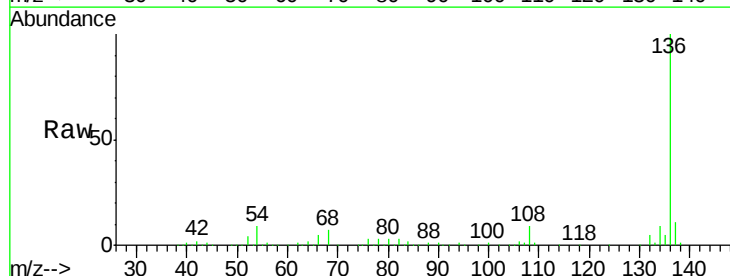
Instrument :  
BNA\_G  
ClientSampled :  
TP-1-2

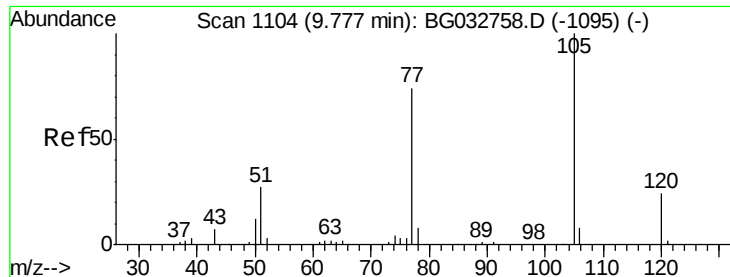
Tot Ion: 70 Resp: 65336  
Ion Ratio Lower Upper  
70 100  
42 50.9 49.1 73.7  
101 0.0 8.5 12.7#  
130 1.9 13.4 20.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.82 min Scan# 1452  
Delta R.T. -0.00 min  
Lab File: BG032774.D  
Acq: 22 Feb 2018 1:38

Tgt Ion: 136 Resp: 334113  
Ion Ratio Lower Upper  
136 100  
137 10.8 9.2 13.8  
54 9.2 10.3 15.5#  
68 6.8 4.5 6.7#





#22

Acetophenone

Concen: 0.136 ng

RT: 9.75 min Scan# 1101

Delta R.T. -0.02 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

Instrument :

BNA\_G

ClientSampled :

TP-1-2

Tot Ion:105 Resp: 1149

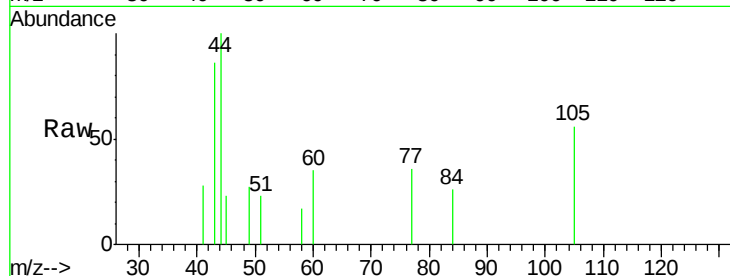
Ion Ratio Lower Upper

105 100

71 0.0 3.0 4.4#

51 40.3 26.1 39.1#

120 0.0 17.4 26.2#



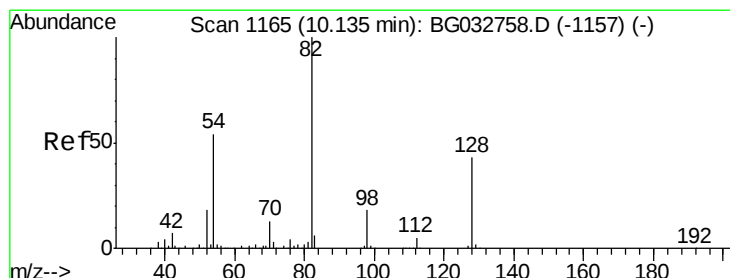
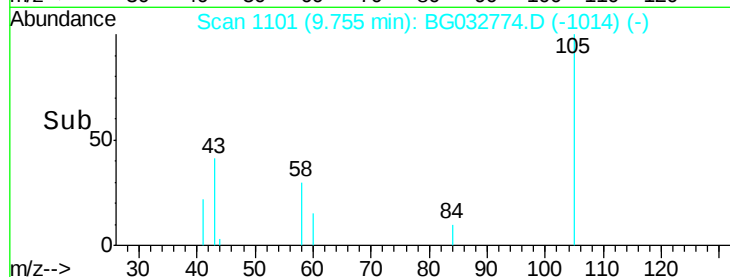
Abundance Ion 105.00 (104.70 to 105.70): E

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

Time--> 9.70 9.75 9.80



#23

Nitrobenzene-d5

Concen: 101.482 ng

RT: 10.12 min Scan# 1164

Delta R.T. -0.01 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

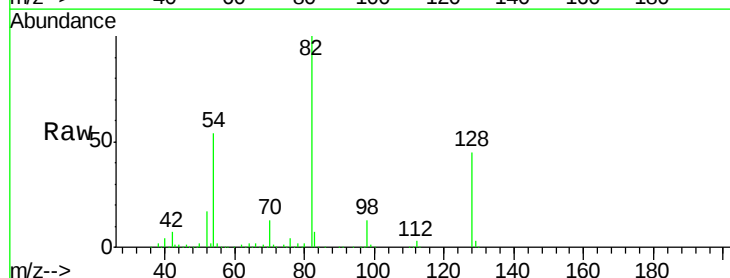
Tgt Ion: 82 Resp: 499078

Ion Ratio Lower Upper

82 100

128 44.9 29.7 44.5#

54 54.3 43.1 64.7

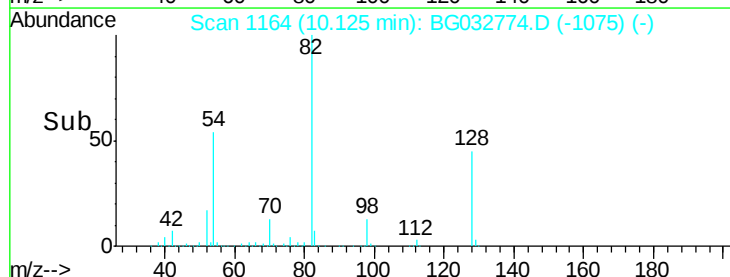


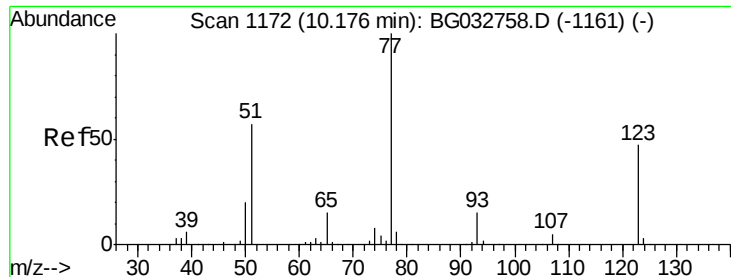
Abundance Ion 82.00 (81.70 to 82.70): BGC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BGC

Time--> 10.00 10.10 10.20

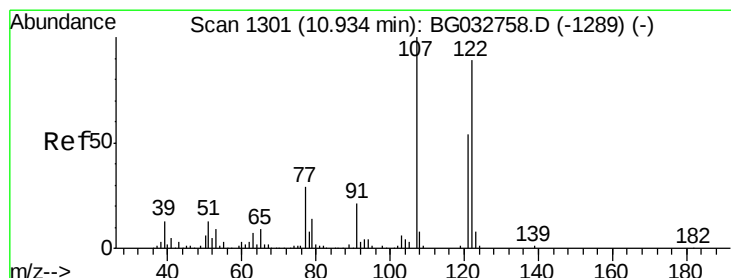
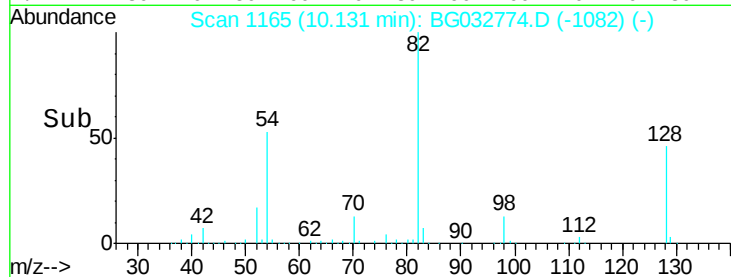
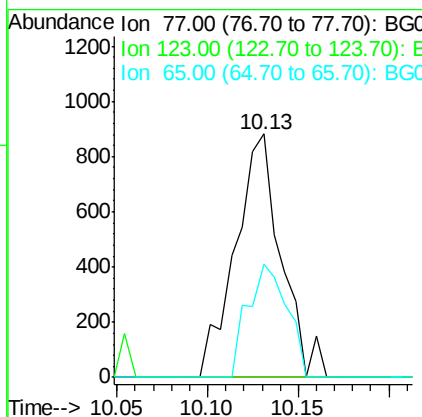
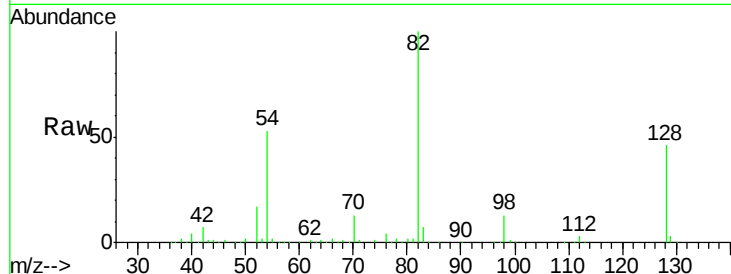




#24  
 Nitrobenzene  
 Concen: 6.631 ng  
 RT: 10.13 min Scan# 1165  
 Delta R.T. -0.05 min  
 Lab File: BG032774.D  
 Acq: 22 Feb 2018 1:38

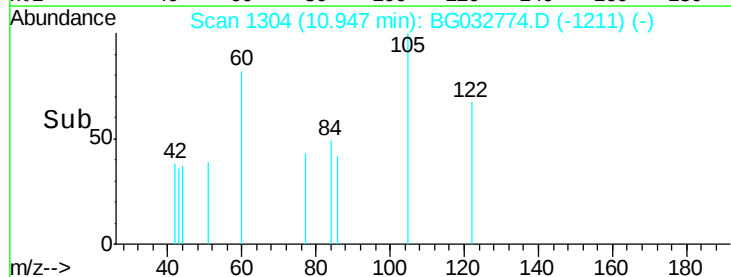
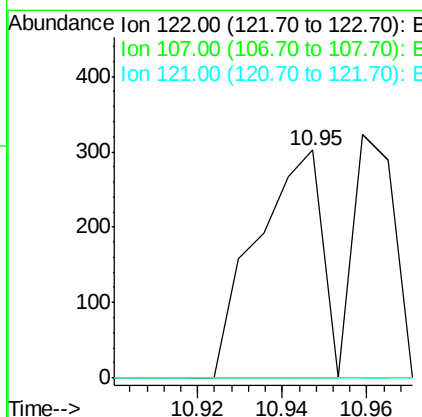
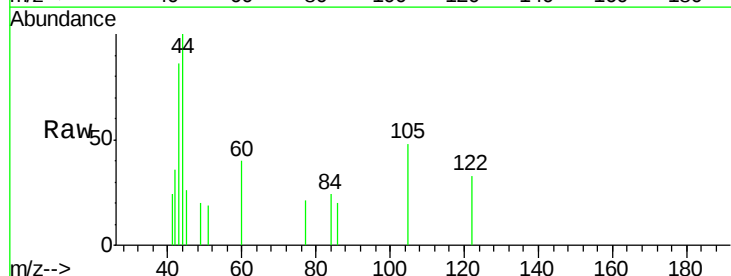
Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP-1-2

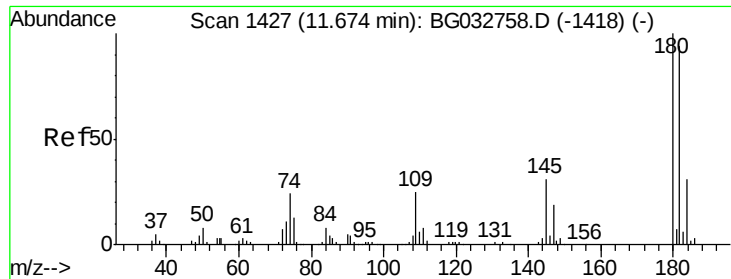
Tot Ion: 77 Resp: 1540  
 Ion Ratio Lower Upper  
 77 100  
 123 0.0 33.0 49.6#  
 65 46.7 13.0 19.6#



#27  
 2,4-Dimethylphenol  
 Concen: 0.064 ng  
 RT: 10.95 min Scan# 1304  
 Delta R.T. 0.01 min  
 Lab File: BG032774.D  
 Acq: 22 Feb 2018 1:38

Tgt Ion:122 Resp: 324  
 Ion Ratio Lower Upper  
 122 100  
 107 0.0 100.2 150.2#  
 121 0.0 44.4 66.6#

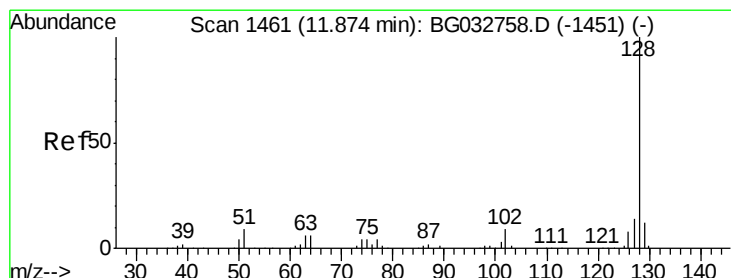
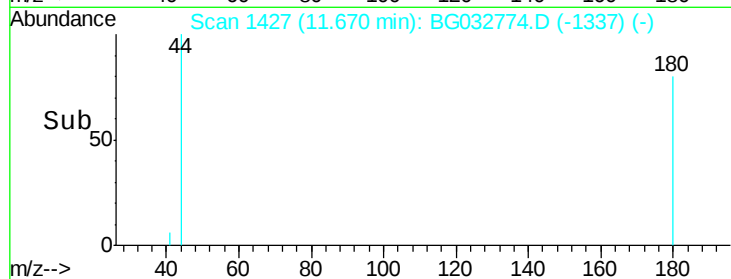
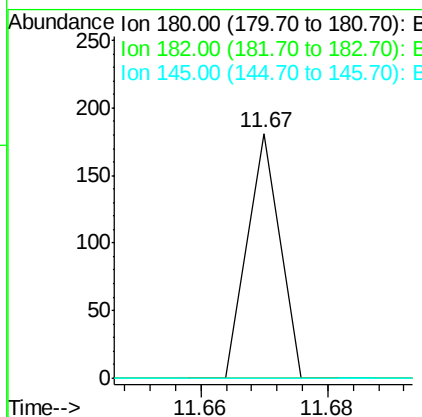
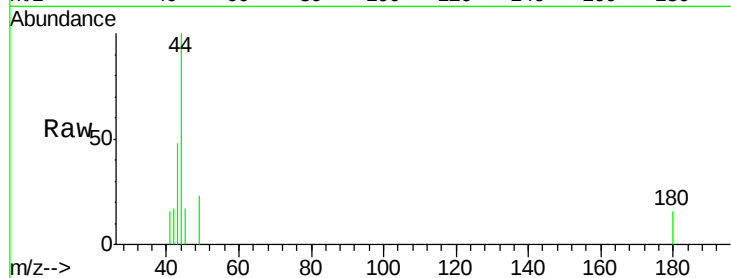




#30  
 1,2,4-Trichlorobenzene  
 Concen: 0.012 ng  
 RT: 11.67 min Scan# 1427  
 Delta R.T. -0.00 min  
 Lab File: BG032774.D  
 Acq: 22 Feb 2018 1:38

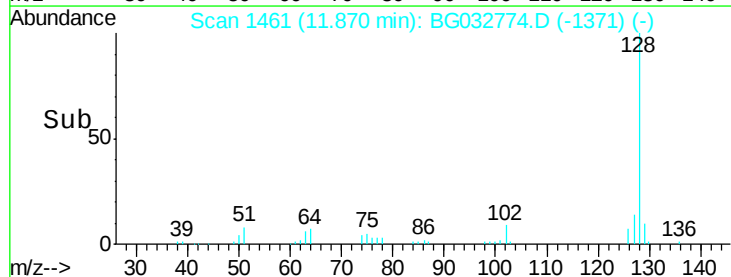
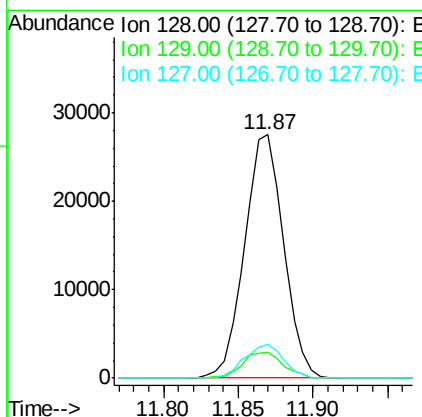
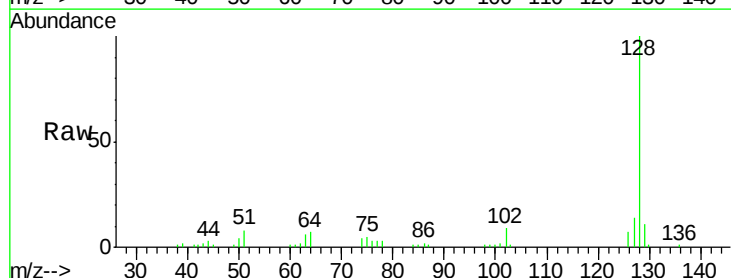
Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP-1-2

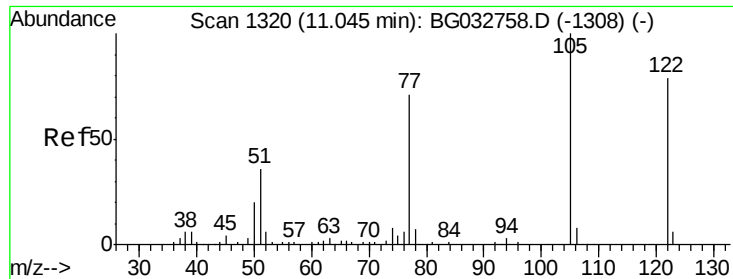
Tot Ion:180 Resp: 64  
 Ion Ratio Lower Upper  
 180 100  
 182 0.0 77.5 116.3#  
 145 0.0 23.4 35.2#



#31  
 Naphthalene  
 Concen: 2.841 ng  
 RT: 11.87 min Scan# 1461  
 Delta R.T. -0.00 min  
 Lab File: BG032774.D  
 Acq: 22 Feb 2018 1:38

Tgt Ion:128 Resp: 49608  
 Ion Ratio Lower Upper  
 128 100  
 129 10.5 8.6 12.8  
 127 14.0 11.6 17.4

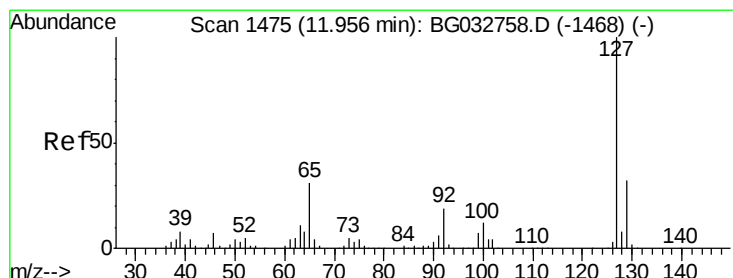
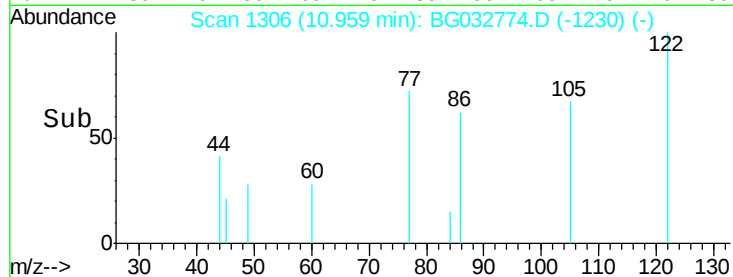
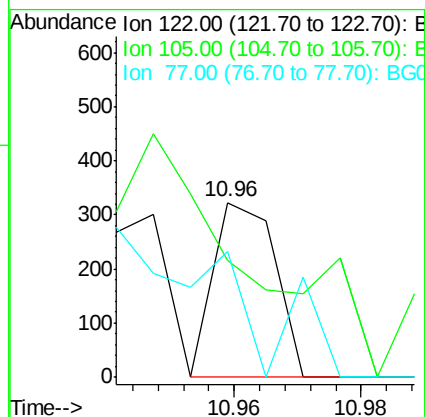
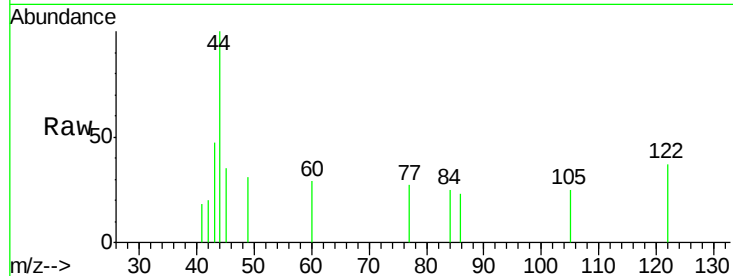




#32  
Benzoic acid  
Concen: 5.898 ng  
RT: 10.96 min Scan# 1306  
Delta R.T. -0.09 min  
Lab File: BG032774.D  
Acq: 22 Feb 2018 1:38

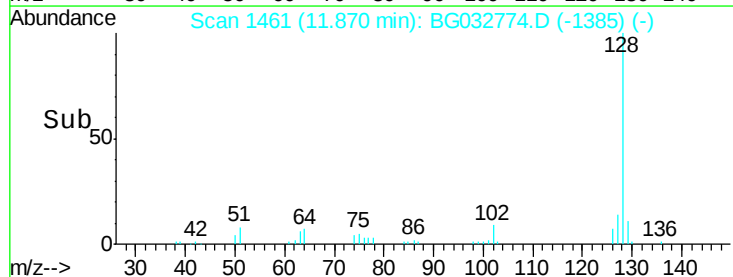
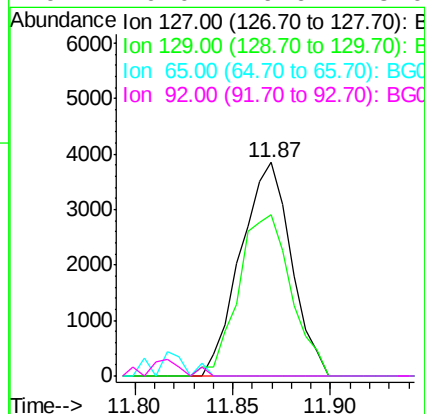
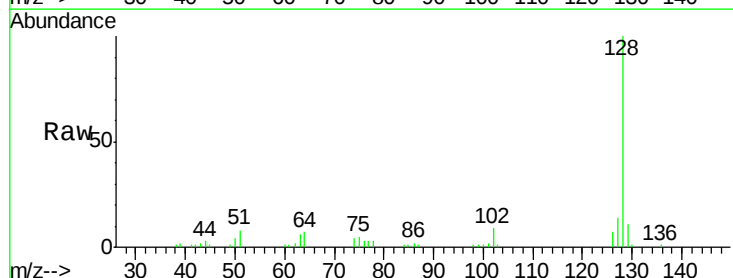
Instrument :  
BNA\_G  
ClientSampleId :  
TP-1-2

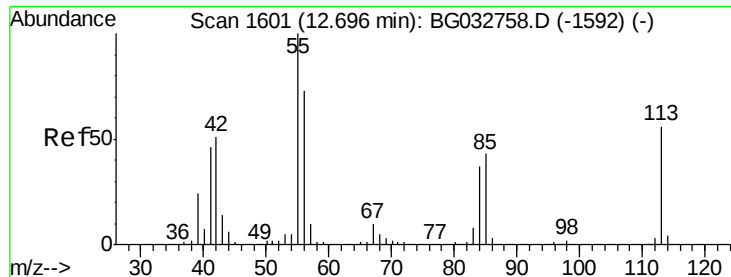
Tot Ion:122 Resp: 216  
Ion Ratio Lower Upper  
122 100  
105 66.9 123.5 163.5#  
77 72.1 85.7 125.7#



#33  
4-Chloroaniline  
Concen: 0.882 ng  
RT: 11.87 min Scan# 1461  
Delta R.T. -0.09 min  
Lab File: BG032774.D  
Acq: 22 Feb 2018 1:38

Tgt Ion:127 Resp: 6886  
Ion Ratio Lower Upper  
127 100  
129 75.3 24.0 36.0#  
65 0.0 27.0 40.4#  
92 0.0 16.6 25.0#





#35

Caprolactam

Concen: 0.512 ng

RT: 12.66 min Scan# 1596

Delta R.T. -0.03 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

Instrument :

BNA\_G

ClientSampleId :

TP-1-2

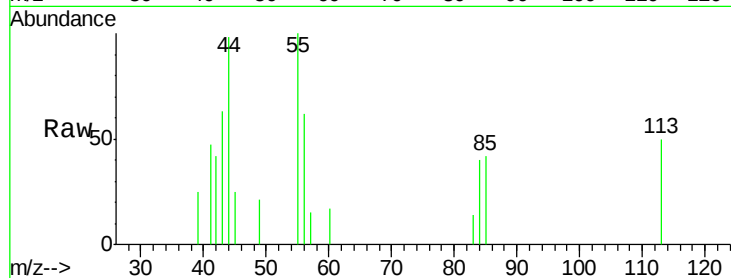
Tot Ion:113 Resp: 947

Ion Ratio Lower Upper

113 100

55 200.3 186.9 226.9

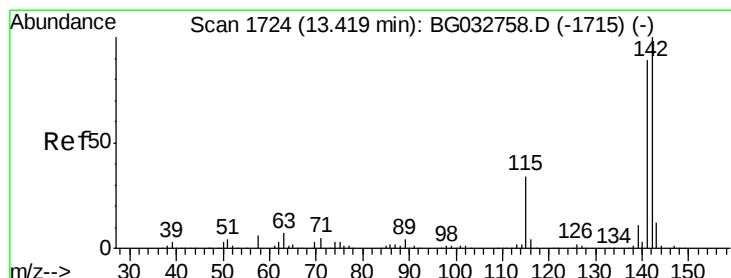
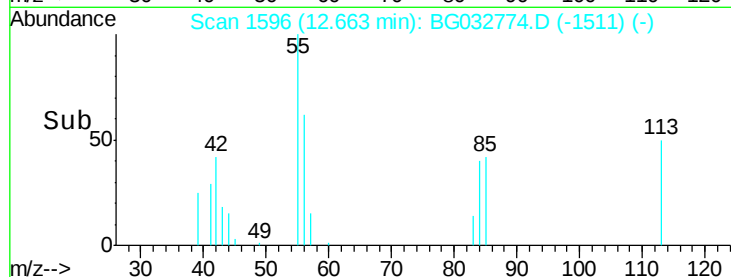
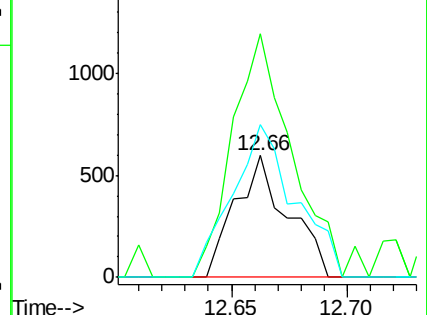
56 125.2 130.9 170.9#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BGC

Ion 56.00 (55.70 to 56.70): BGC



#37

2-Methylnaphthalene

Concen: 0.489 ng

RT: 13.41 min Scan# 1724

Delta R.T. -0.00 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

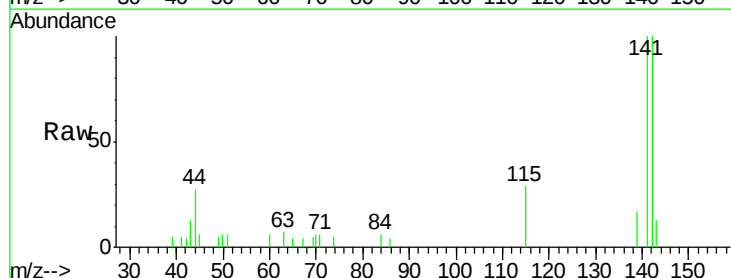
Tgt Ion:142 Resp: 6175

Ion Ratio Lower Upper

142 100

141 99.7 67.1 100.7

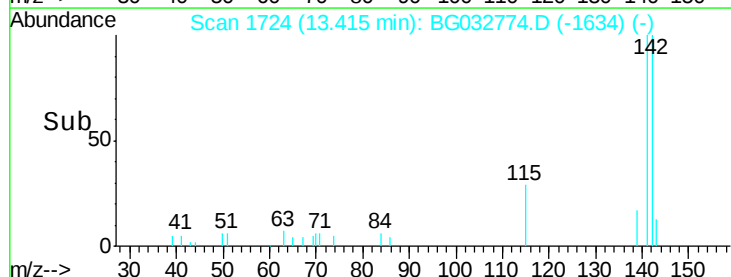
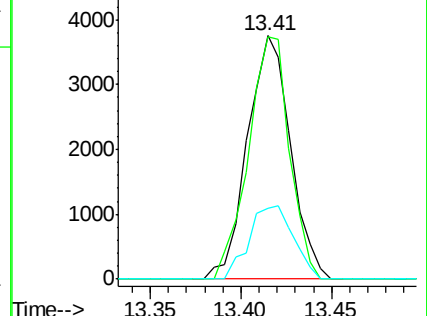
115 29.1 30.7 46.1#

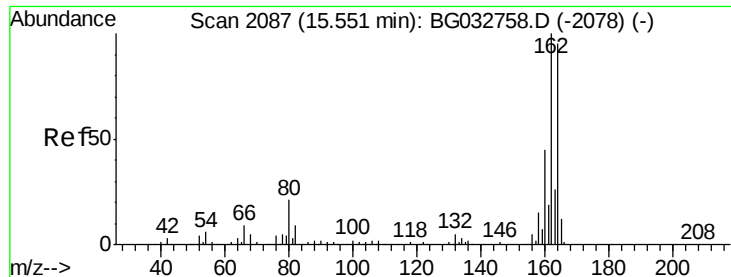


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 15.54 min Scan# 2086

Delta R.T. -0.01 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

Instrument :

BNA\_G

ClientSampleId :

TP-1-2

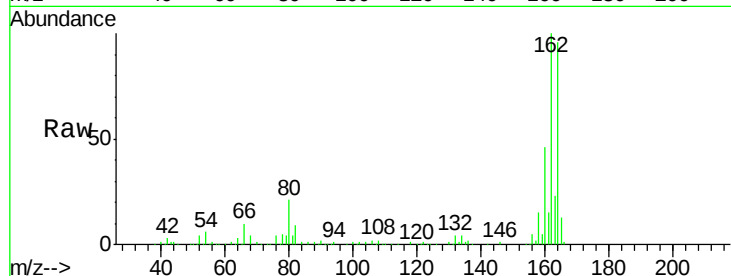
Tot Ion:164 Resp: 188438

Ion Ratio Lower Upper

164 100

162 103.6 78.8 118.2

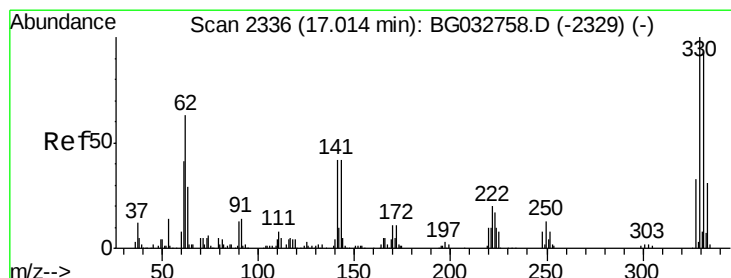
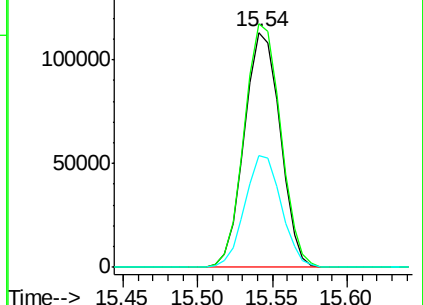
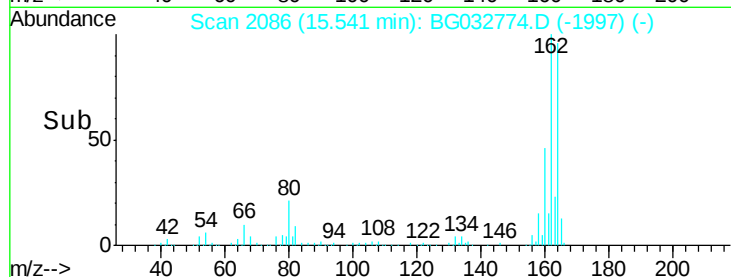
160 47.6 35.4 53.0



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 147.059 ng

RT: 17.02 min Scan# 2337

Delta R.T. 0.00 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

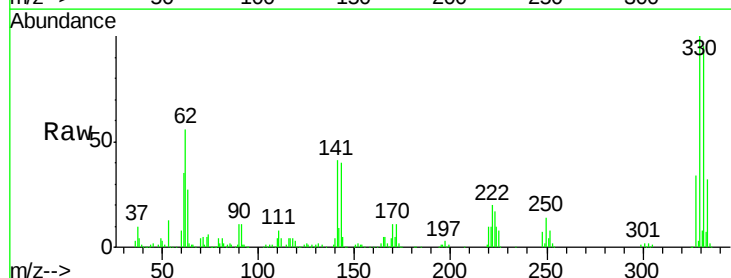
Tgt Ion:330 Resp: 291377

Ion Ratio Lower Upper

330 100

332 94.6 77.0 115.6

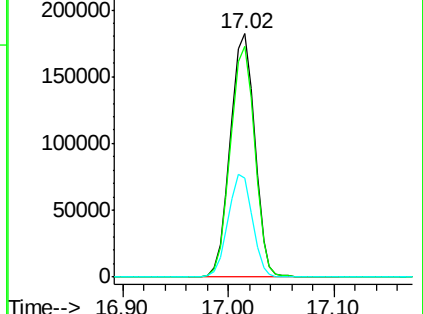
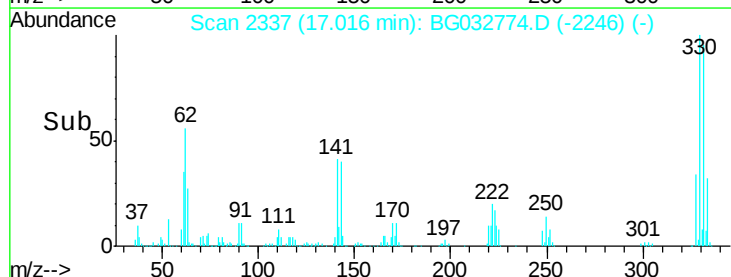
141 41.9 25.2 37.8#

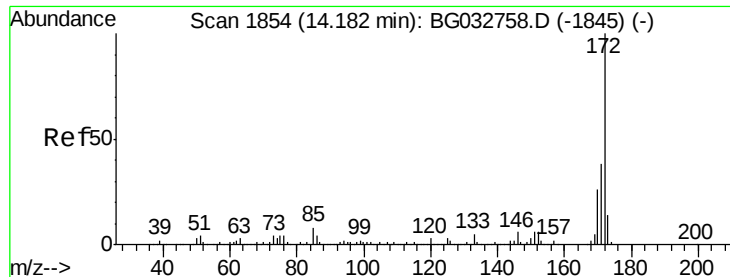


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

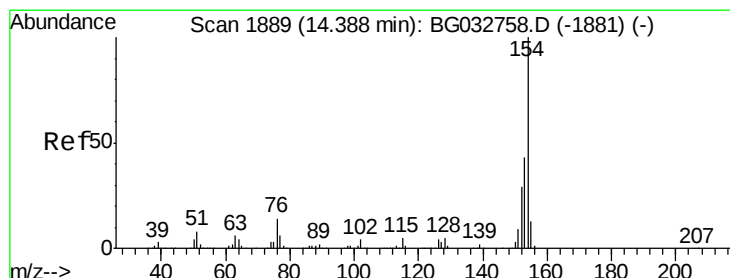
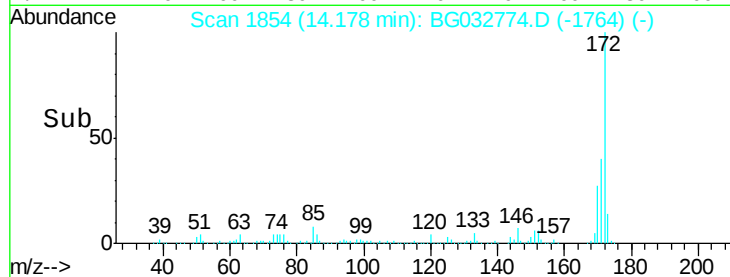
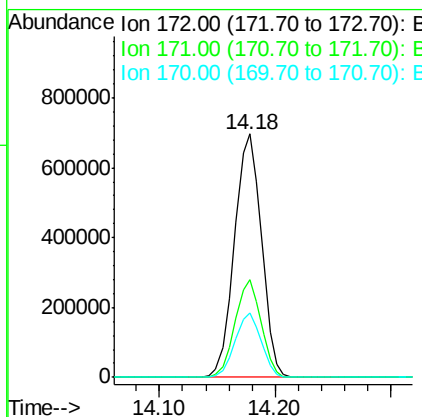
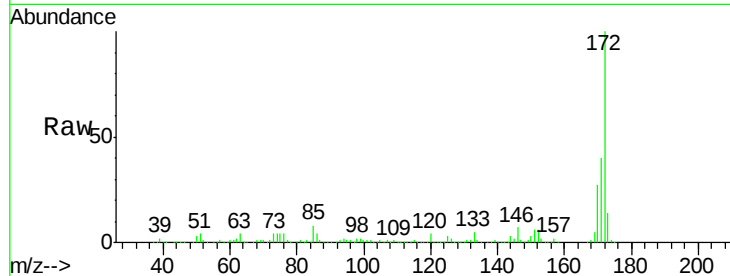




#44  
2-Fluorobiphenyl  
Concen: 86.080 ng  
RT: 14.18 min Scan# 1854  
Delta R.T. -0.00 min  
Lab File: BG032774.D  
Acq: 22 Feb 2018 1:38

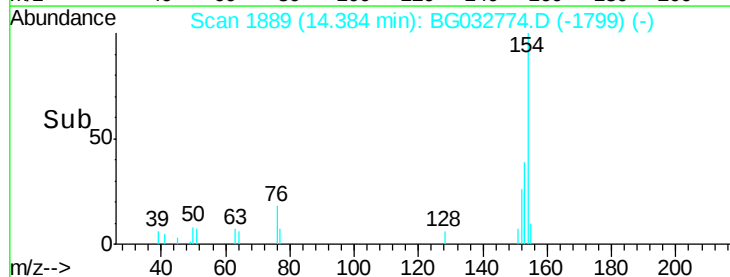
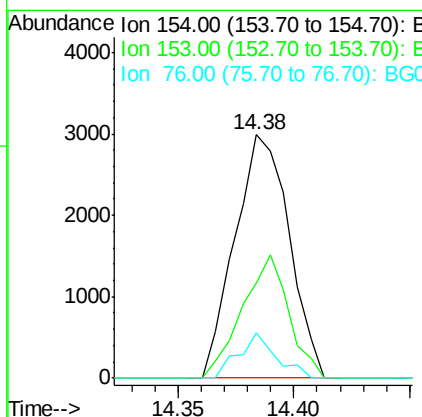
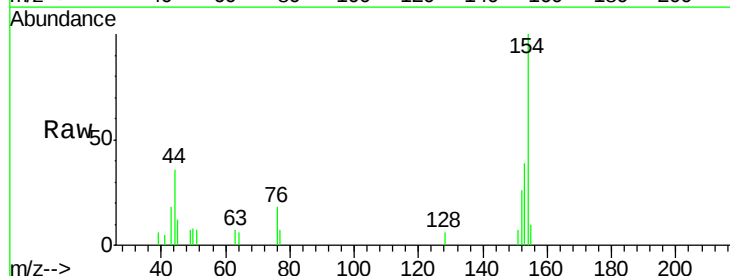
Instrument :  
BNA\_G  
ClientSampleId :  
TP-1-2

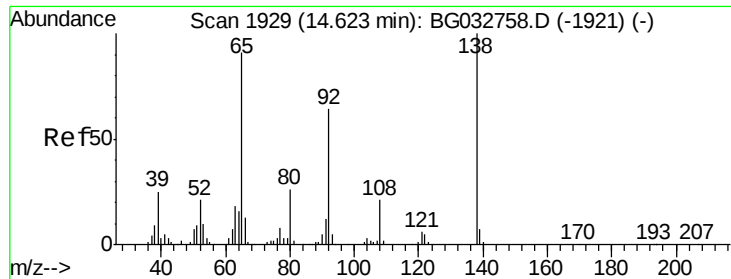
Tot Ion:172 Resp: 1124680  
Ion Ratio Lower Upper  
172 100  
171 40.2 30.0 45.0  
170 26.6 19.5 29.3



#45  
1,1'-Biphenyl  
Concen: 0.296 ng  
RT: 14.38 min Scan# 1889  
Delta R.T. -0.00 min  
Lab File: BG032774.D  
Acq: 22 Feb 2018 1:38

Tgt Ion:154 Resp: 4872  
Ion Ratio Lower Upper  
154 100  
153 39.0 19.8 59.8  
76 18.5 0.0 31.9

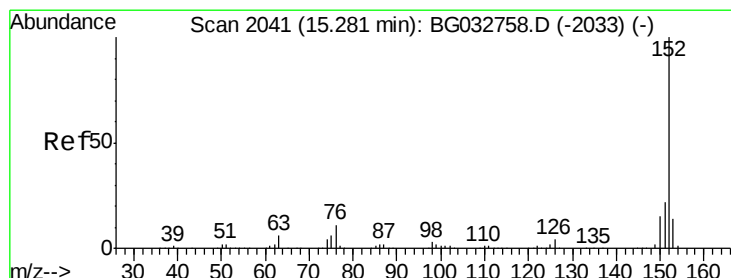
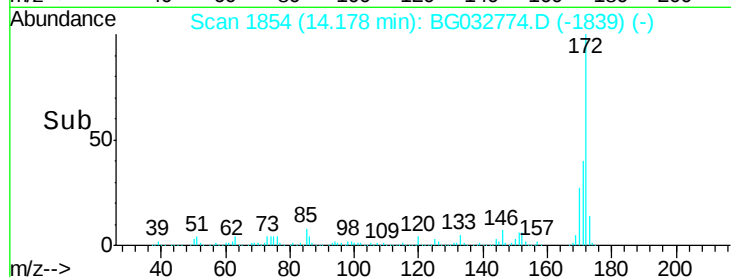
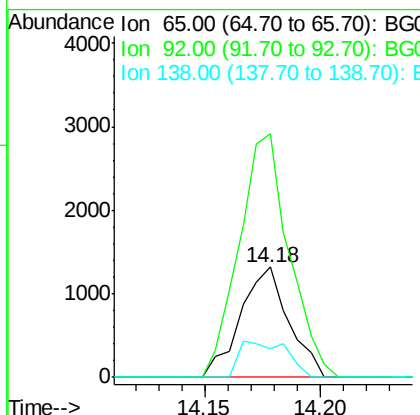
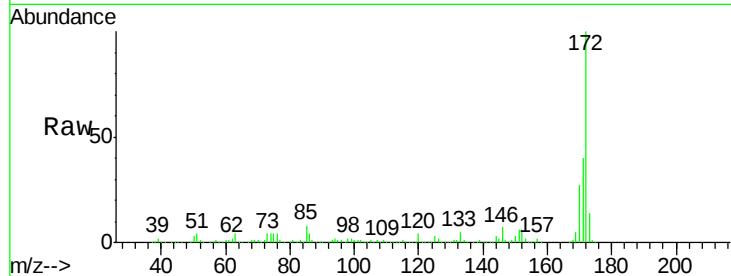




#47  
2-Nitroaniline  
Concen: 10.328 ng  
RT: 14.18 min Scan# 1854  
Delta R.T. -0.44 min  
Lab File: BG032774.D  
Acq: 22 Feb 2018 1:38

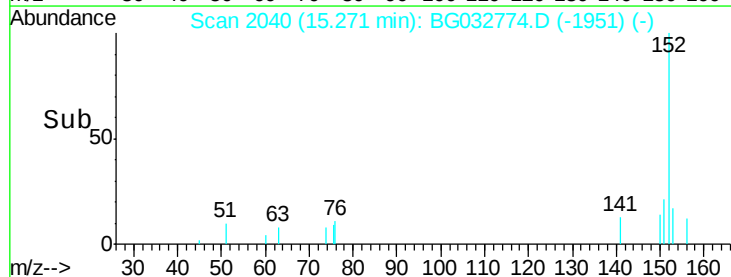
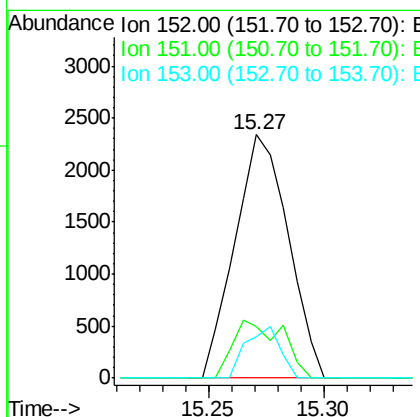
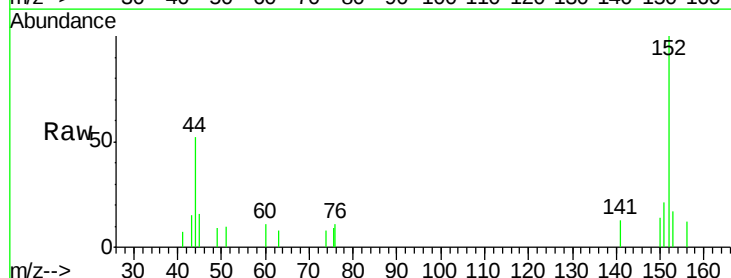
Instrument :  
BNA\_G  
ClientSampleId :  
TP-1-2

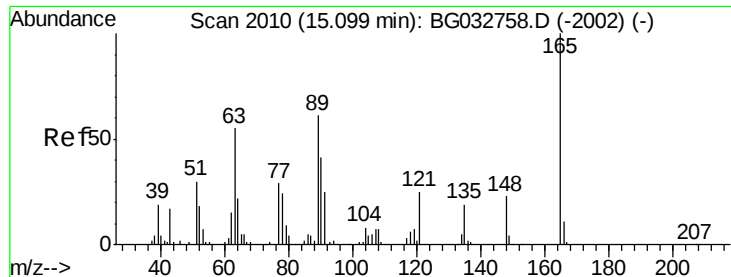
Tot Ion: 65 Resp: 1920  
Ion Ratio Lower Upper  
65 100  
92 221.3 54.6 82.0#  
138 26.1 72.9 109.3#



#48  
Acenaphthylene  
Concen: 0.187 ng  
RT: 15.27 min Scan# 2040  
Delta R.T. -0.01 min  
Lab File: BG032774.D  
Acq: 22 Feb 2018 1:38

Tgt Ion: 152 Resp: 3759  
Ion Ratio Lower Upper  
152 100  
151 21.1 17.2 25.8  
153 17.0 10.2 15.4#

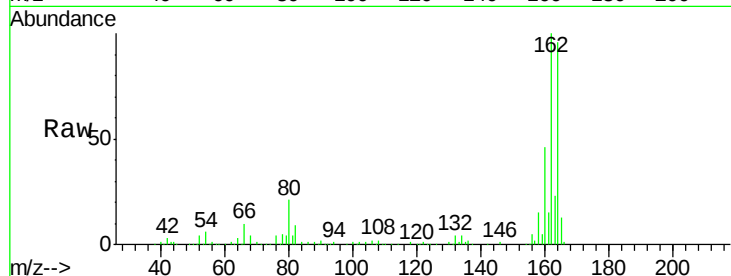




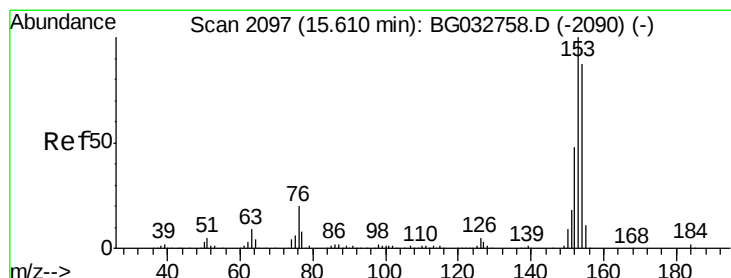
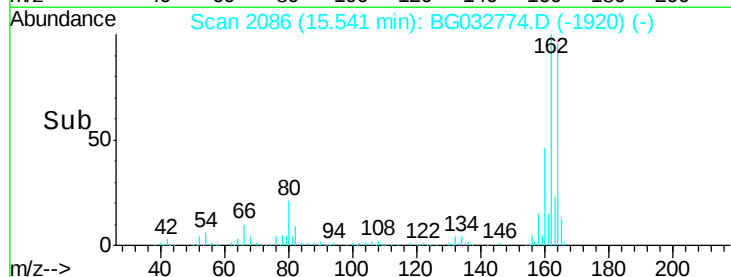
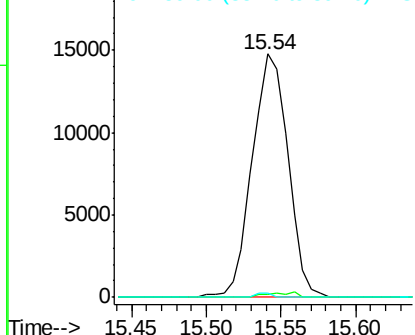
#50  
2,6-Dinitrotoluene  
Concen: 16.416 ng  
RT: 15.54 min Scan# 2086  
Delta R.T. 0.44 min  
Lab File: BG032774.D  
Acq: 22 Feb 2018 1:38

Instrument :  
BNA\_G  
ClientSampleId :  
TP-1-2

Tot Ion:165 Resp: 24441  
Ion Ratio Lower Upper  
165 100  
63 1.4 52.7 79.1#  
89 1.6 49.2 73.8#

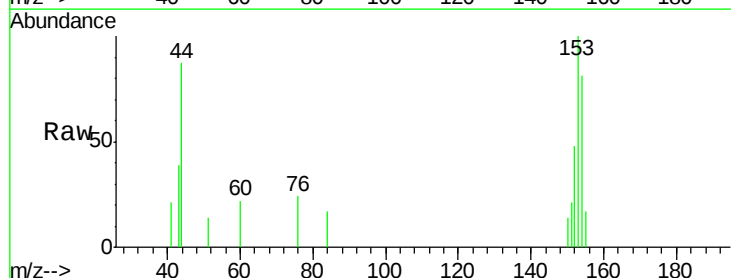


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BGO  
Ion 89.00 (88.70 to 89.70): BGO

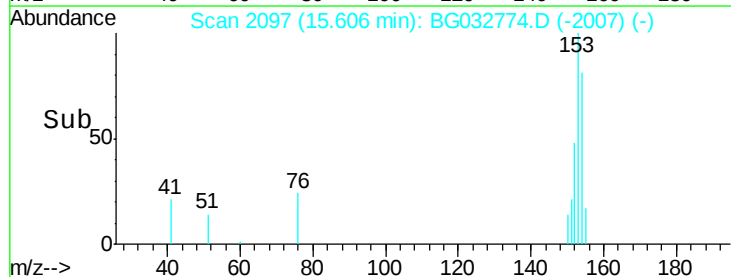
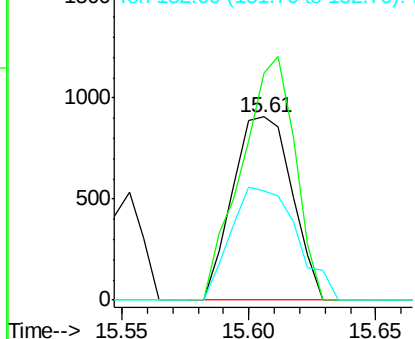


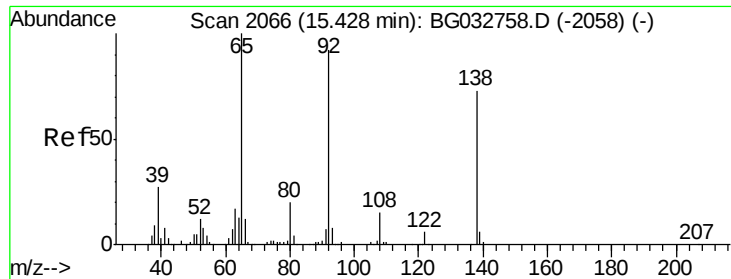
#51  
Acenaphthene  
Concen: 0.118 ng  
RT: 15.61 min Scan# 2097  
Delta R.T. -0.00 min  
Lab File: BG032774.D  
Acq: 22 Feb 2018 1:38

Tgt Ion:154 Resp: 1475  
Ion Ratio Lower Upper  
154 100  
153 124.1 90.4 135.6  
152 59.6 41.6 62.4



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: 7.559 ng

RT: 15.72 min Scan# 2116

Delta R.T. 0.29 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

Instrument :

BNA\_G

ClientSampleId :

TP-1-2

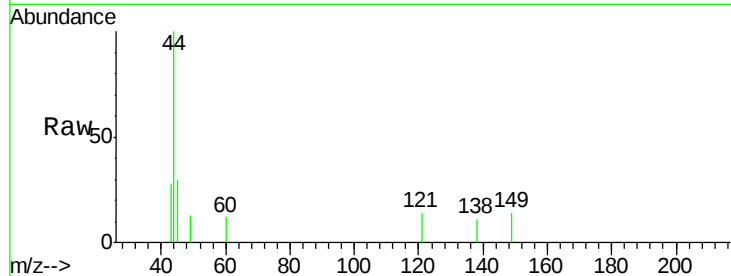
Tot Ion:138 Resp: 60

Ion Ratio Lower Upper

138 100

108 0.0 17.5 26.3#

92 0.0 105.8 158.8#

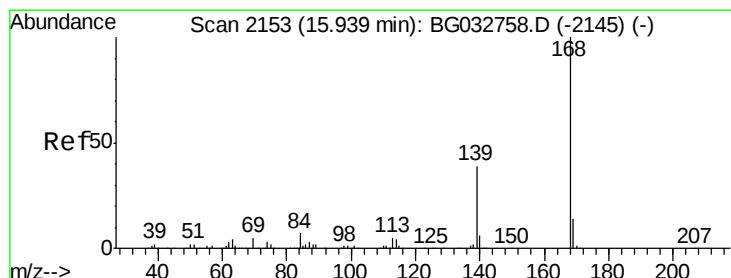
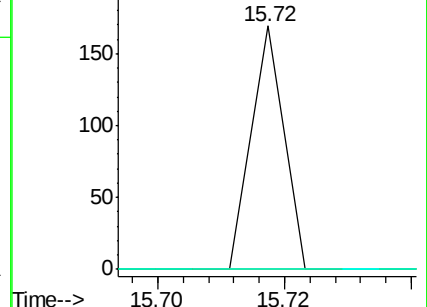
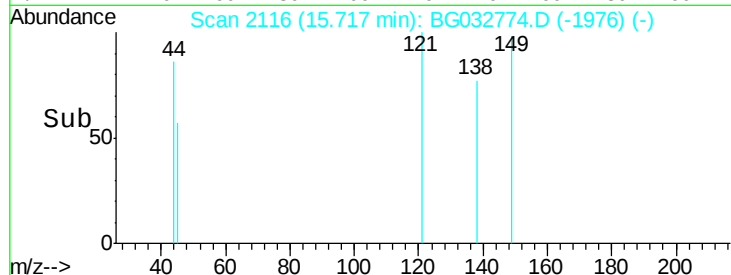


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): B

15.72



#54

Dibenzofuran

Concen: 0.097 ng

RT: 15.93 min Scan# 2153

Delta R.T. -0.00 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

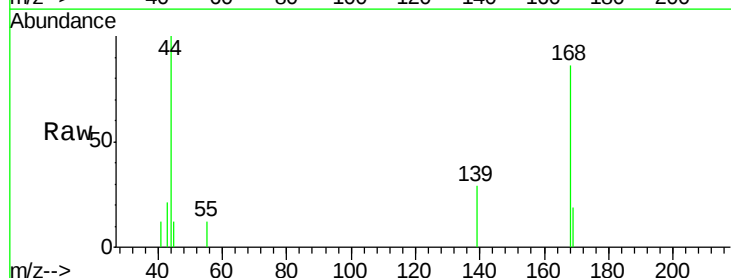
Tgt Ion:168 Resp: 1734

Ion Ratio Lower Upper

168 100

139 33.5 28.6 43.0

169 22.2 11.2 16.8#

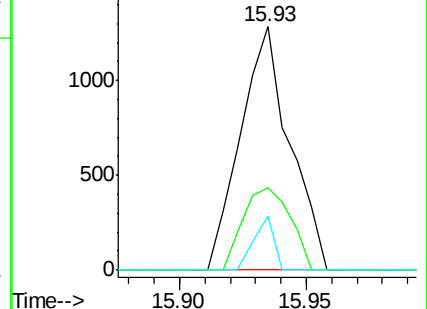
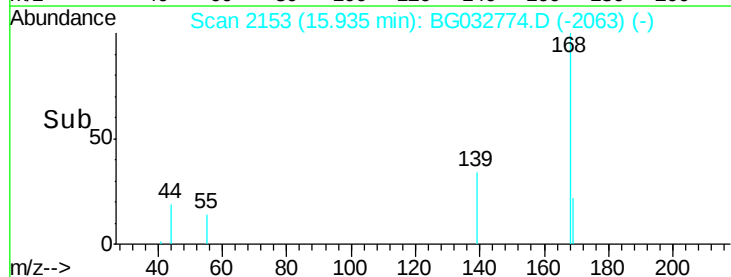


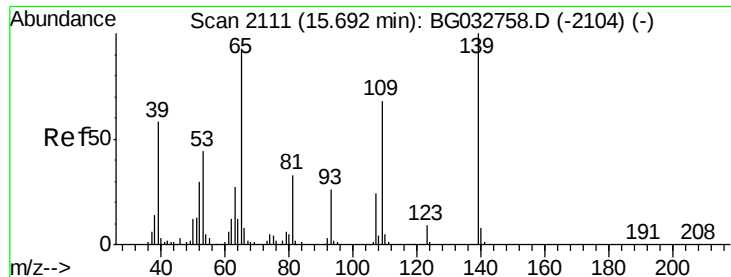
Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

15.93





#55

4-Nitrophenol

Concen: 7.277 ng

RT: 15.93 min Scan# 2153

Delta R.T. 0.24 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

Instrument :

BNA\_G

ClientSampleId :

TP-1-2

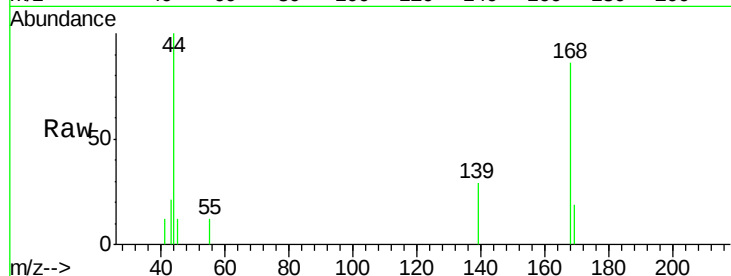
Tot Ion:139 Resp: 564

Ion Ratio Lower Upper

139 100

109 0.0 62.2 102.2#

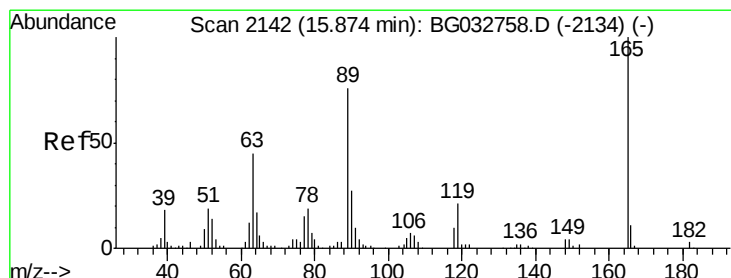
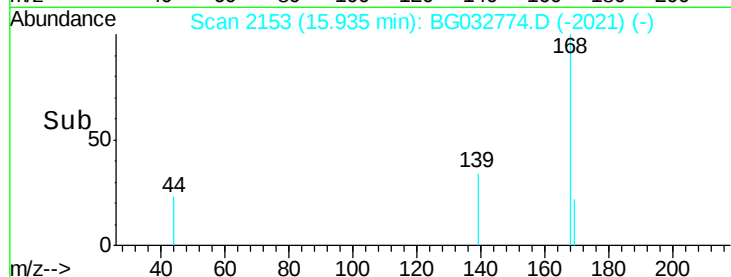
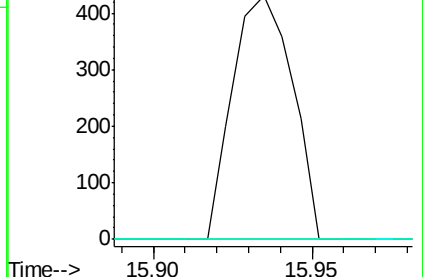
65 0.0 97.2 137.2#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BGC



#56

2,4-Dinitrotoluene

Concen: 14.614 ng

RT: 15.54 min Scan# 2086

Delta R.T. -0.33 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

Tgt Ion:165 Resp: 24441

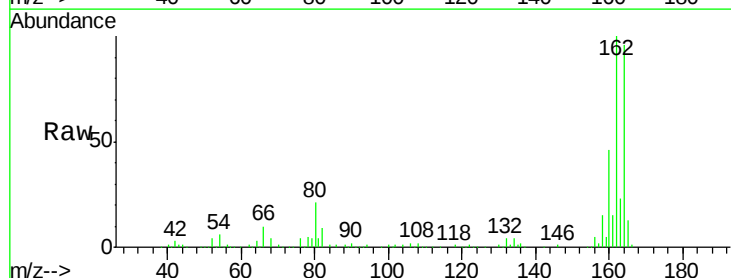
Ion Ratio Lower Upper

165 100

63 1.4 42.0 63.0#

89 1.6 66.9 100.3#

182 0.0 2.6 3.8#

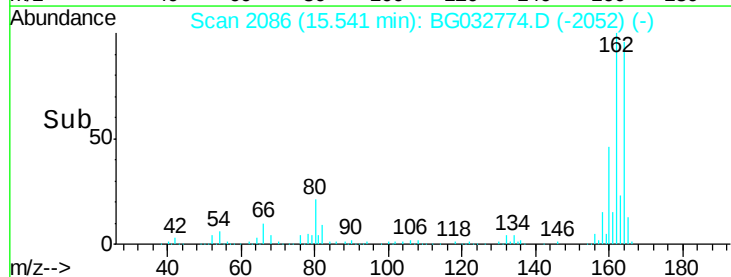
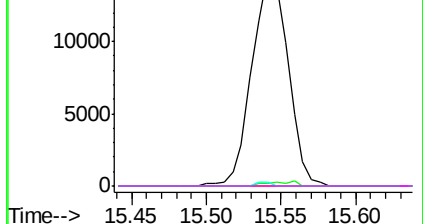


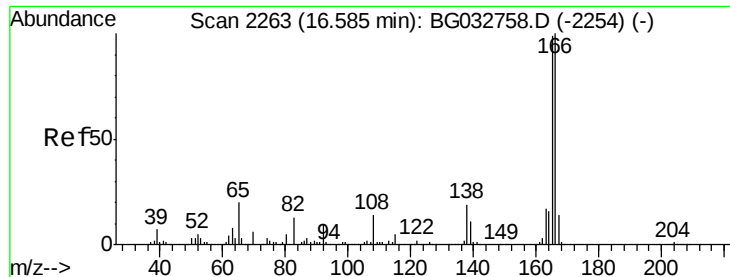
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E





#57

Fluorene

Concen: 0.239 ng

RT: 16.57 min Scan# 2262

Delta R.T. -0.01 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

Instrument :

BNA\_G

ClientSampleId :

TP-1-2

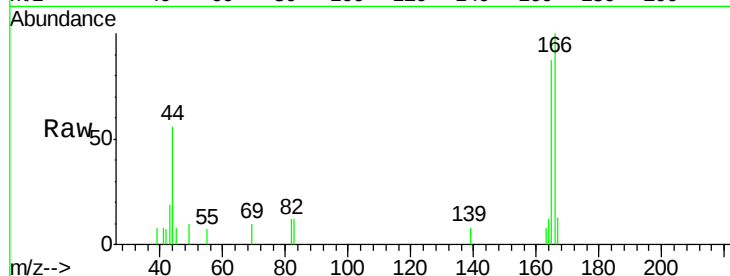
Tot Ion:166 Resp: 3520

Ion Ratio Lower Upper

166 100

165 87.5 80.6 121.0

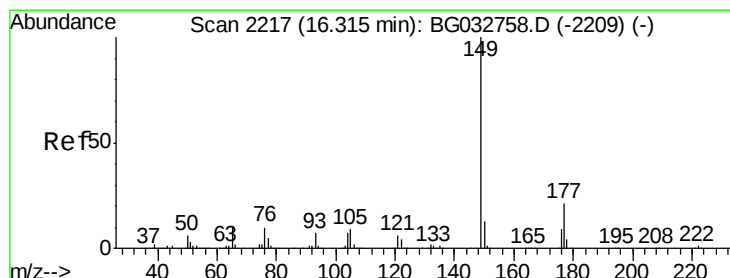
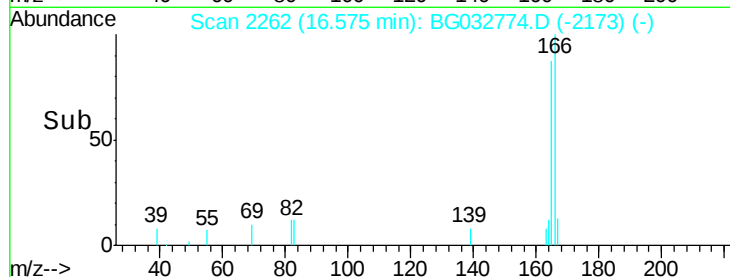
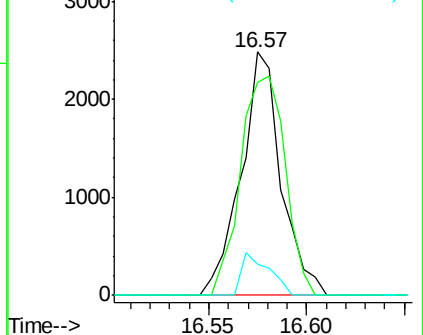
167 12.5 10.4 15.6



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#59

Diethylphthalate

Concen: 0.263 ng

RT: 16.30 min Scan# 2216

Delta R.T. -0.01 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

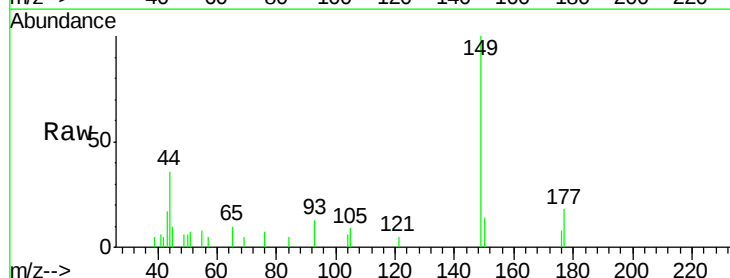
Tgt Ion:149 Resp: 4441

Ion Ratio Lower Upper

149 100

177 18.0 18.5 27.7#

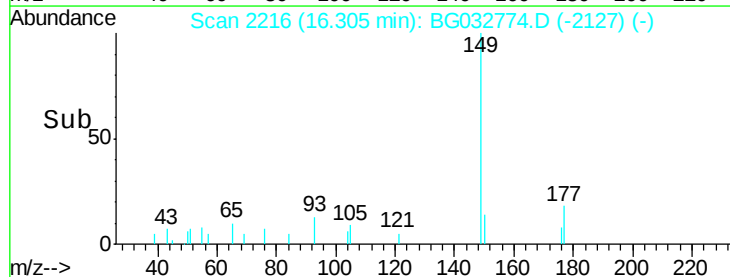
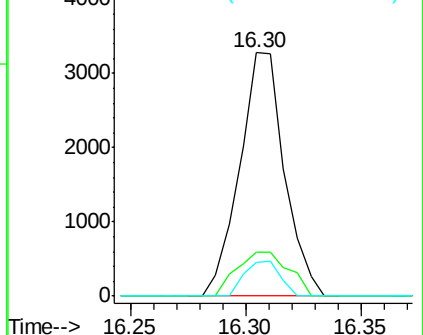
150 14.0 10.2 15.2

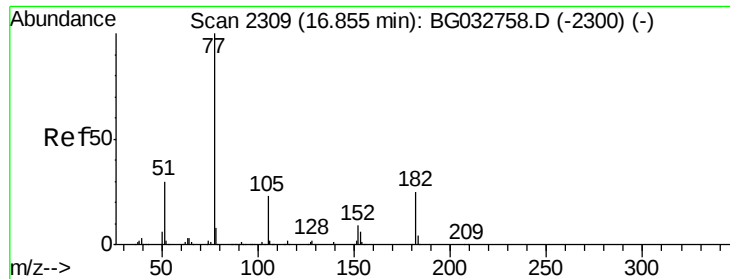


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 177.00 (176.70 to 177.70): E

Ion 150.00 (149.70 to 150.70): E





#62

Azobenzene

Concen: 0.121 ng

RT: 17.01 min Scan# 2336

Delta R.T. 0.15 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

Instrument :

BNA\_G

ClientSampleId :

TP-1-2

Tot Ion: 77 Resp: 1825

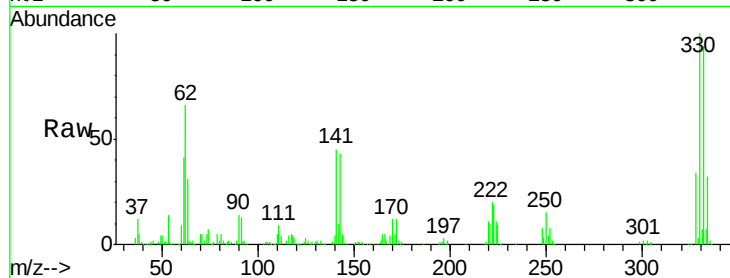
Ion Ratio Lower Upper

77 100

182 0.0 7.4 47.4#

105 71.6 0.3 40.3#

51 78.2 11.6 51.6#

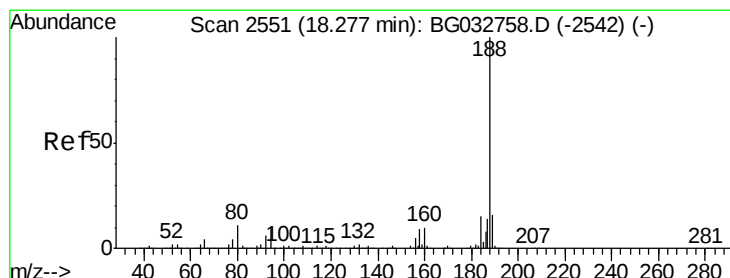
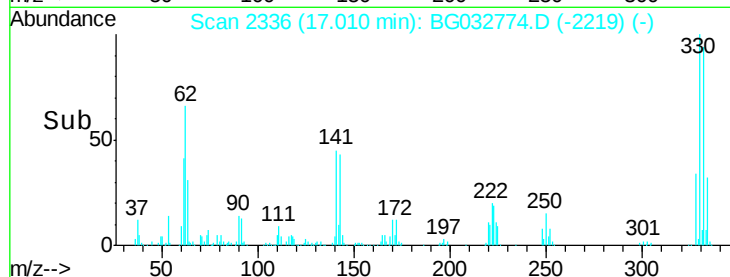
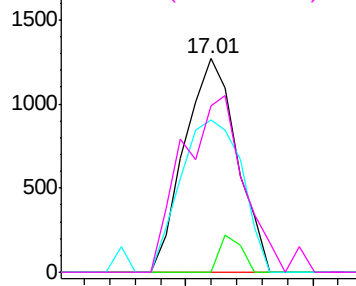


Abundance Ion 77.00 (76.70 to 77.70): BGC

Ion 182.00 (181.70 to 182.70): BGC

Ion 105.00 (104.70 to 105.70): BGC

Ion 51.00 (50.70 to 51.70): BGC



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 18.27 min Scan# 2551

Delta R.T. -0.00 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

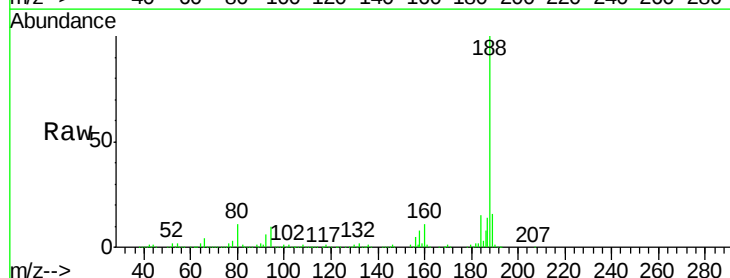
Tgt Ion: 188 Resp: 420774

Ion Ratio Lower Upper

188 100

94 10.3 6.9 10.3

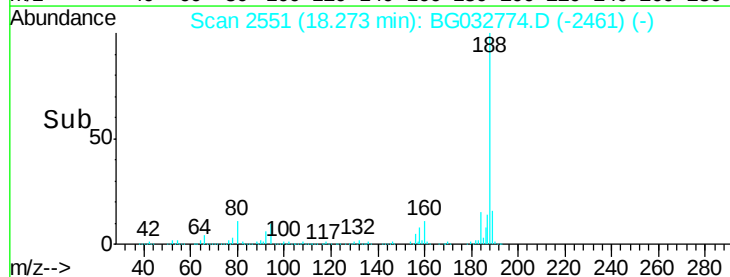
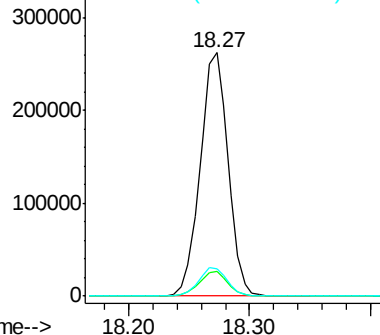
80 11.3 7.7 11.5

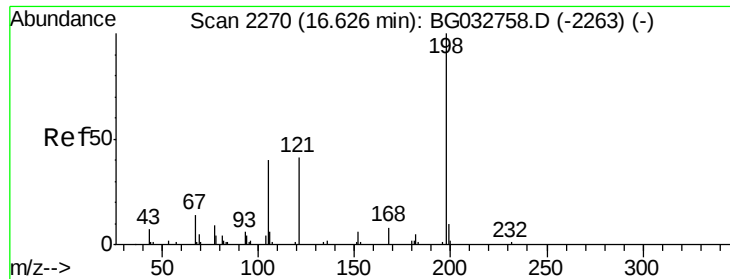


Abundance Ion 188.00 (187.70 to 188.70): BGC

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

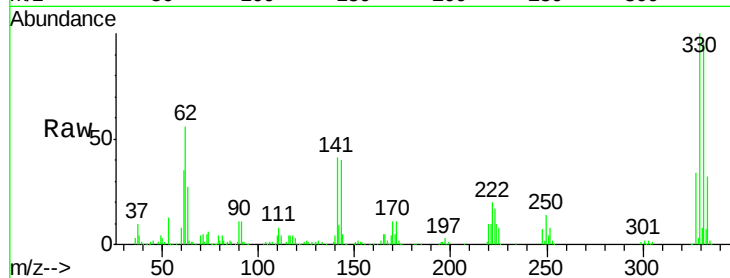




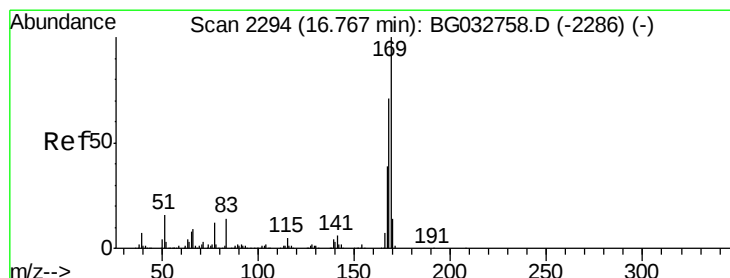
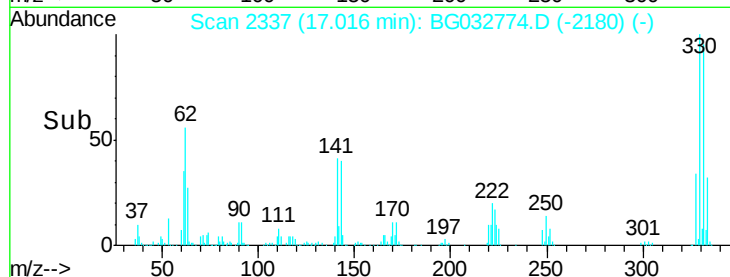
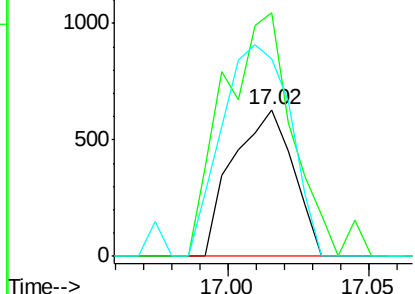
#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 5.887 ng  
 RT: 17.02 min Scan# 2337  
 Delta R.T. 0.39 min  
 Lab File: BG032774.D  
 Acq: 22 Feb 2018 1:38

Instrument :  
 BNA\_G  
 ClientSampled :  
 TP-1-2

Tot Ion:198 Resp: 930  
 Ion Ratio Lower Upper  
 198 100  
 51 165.8 30.6 70.6#  
 105 134.2 23.8 63.8#

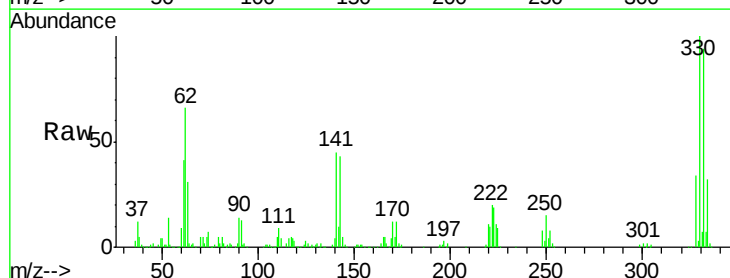


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BG  
 Ion 105.00 (104.70 to 105.70): E

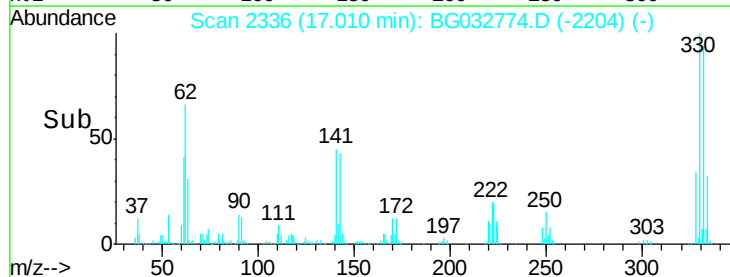
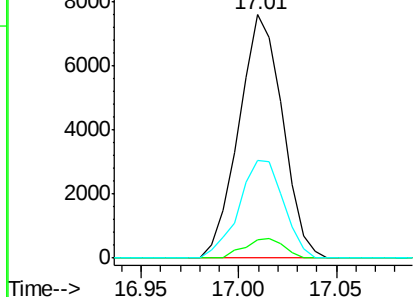


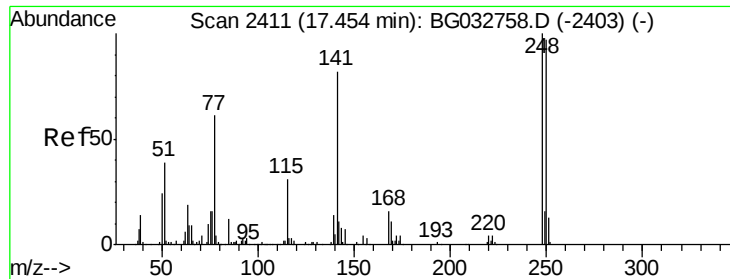
#65  
 n-Nitrosodiphenylamine  
 Concen: 0.859 ng  
 RT: 17.01 min Scan# 2336  
 Delta R.T. 0.24 min  
 Lab File: BG032774.D  
 Acq: 22 Feb 2018 1:38

Tgt Ion:169 Resp: 11757  
 Ion Ratio Lower Upper  
 169 100  
 168 7.5 55.7 83.5#  
 167 40.3 30.1 45.1



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

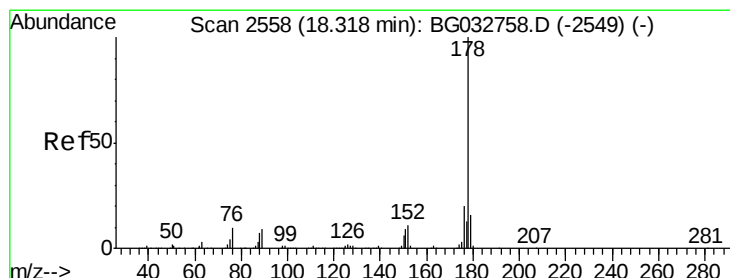
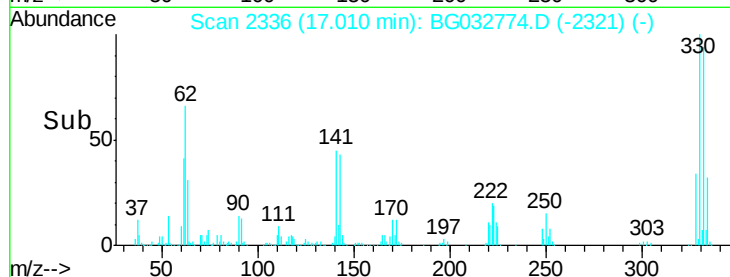
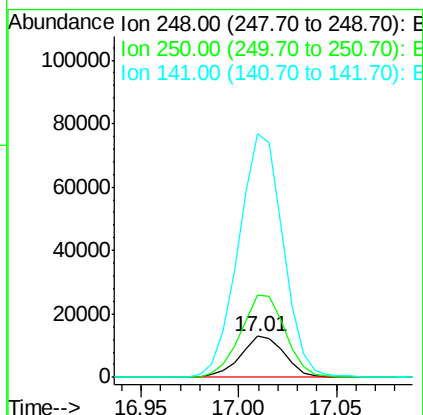
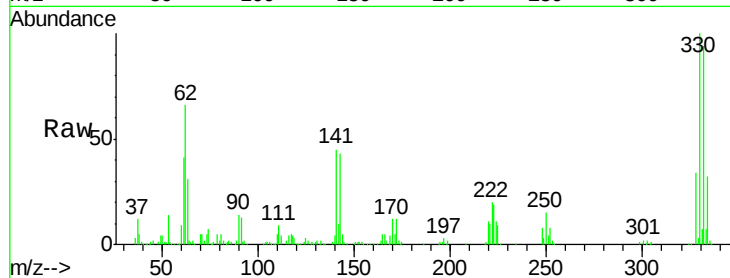




#66  
4-Bromophenyl-phenylether  
Concen: 4.541 ng  
RT: 17.01 min Scan# 2336  
Delta R.T. -0.44 min  
Lab File: BG032774.D  
Acq: 22 Feb 2018 1:38

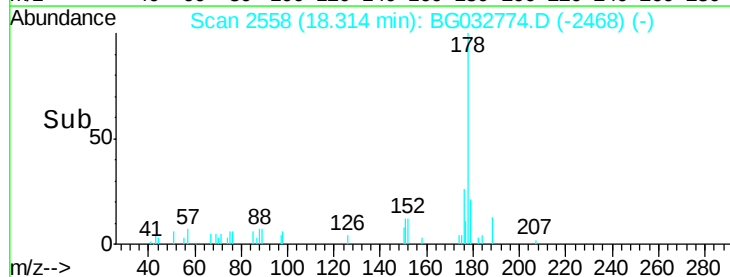
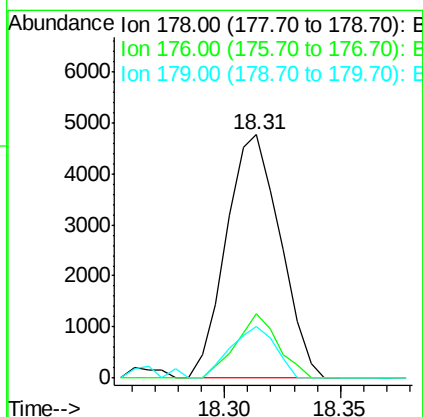
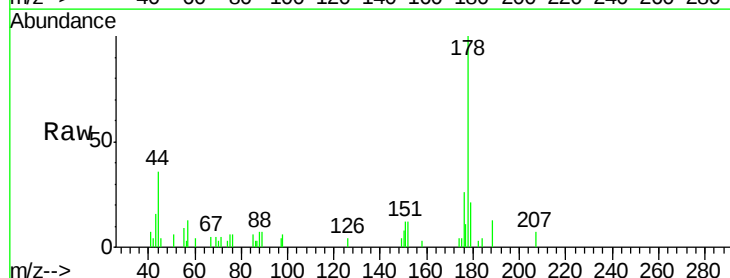
Instrument :  
BNA\_G  
ClientSampled :  
TP-1-2

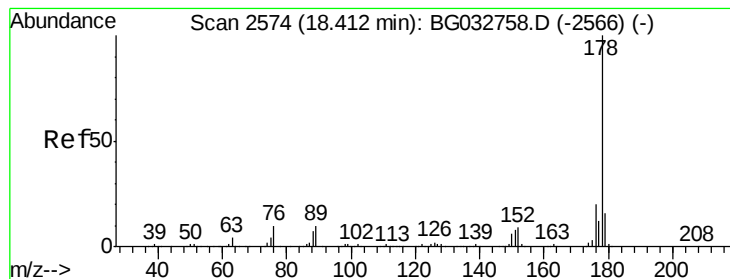
Tot Ion:248 Resp: 20203  
Ion Ratio Lower Upper  
248 100  
250 200.6 77.1 115.7#  
141 592.1 50.8 76.2#



#70  
Phenanthrene  
Concen: 0.329 ng  
RT: 18.31 min Scan# 2558  
Delta R.T. -0.00 min  
Lab File: BG032774.D  
Acq: 22 Feb 2018 1:38

Tgt Ion:178 Resp: 7729  
Ion Ratio Lower Upper  
178 100  
176 26.4 15.7 23.5#  
179 21.2 12.5 18.7#





#71

Anthracene

Concen: 0.042 ng

RT: 18.40 min Scan# 2573

Delta R.T. -0.01 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

Instrument :

BNA\_G

ClientSampleId :

TP-1-2

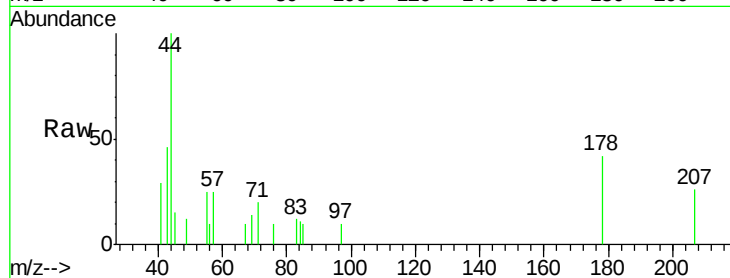
Tot Ion:178 Resp: 997

Ion Ratio Lower Upper

178 100

176 0.0 16.0 24.0#

179 0.0 12.5 18.7#



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

18.40

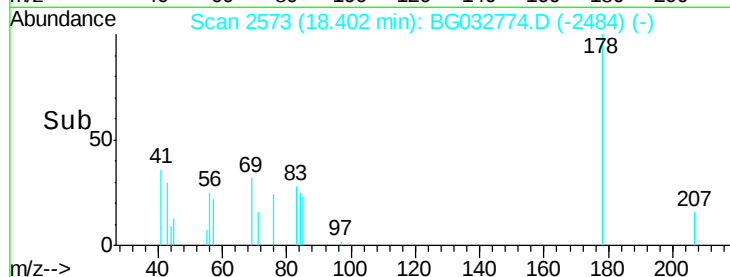
600

400

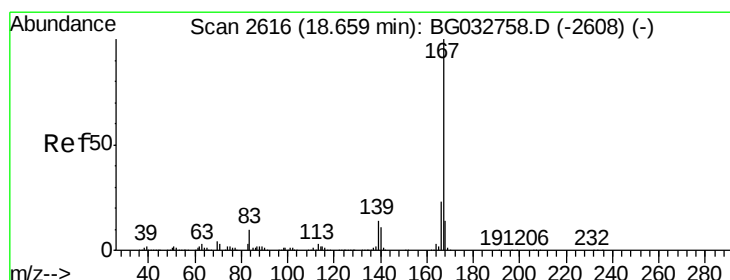
200

0

18.35 18.40 18.45



Time-->



#72

Carbazole

Concen: 0.003 ng

RT: 18.65 min Scan# 2615

Delta R.T. -0.01 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

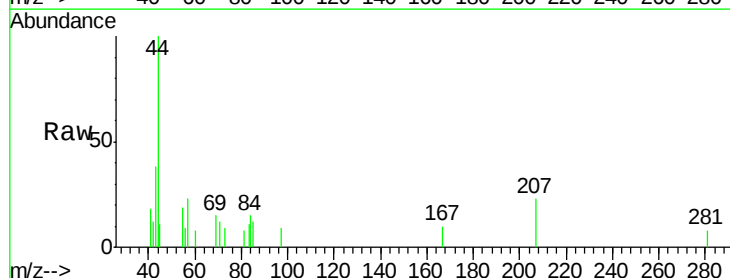
Tgt Ion:167 Resp: 64

Ion Ratio Lower Upper

167 100

166 0.0 18.2 27.4#

139 0.0 9.4 14.2#



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

18.65

250

200

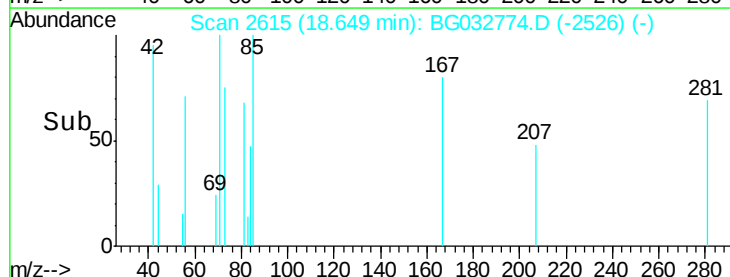
150

100

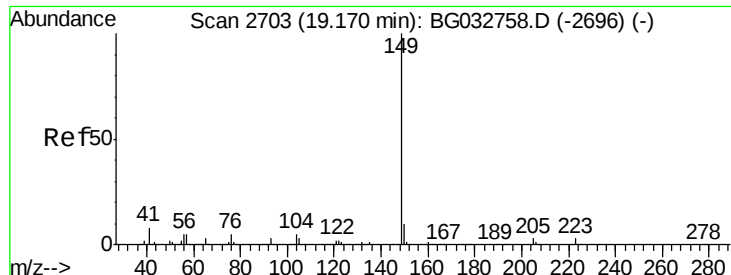
50

0

18.64 18.66



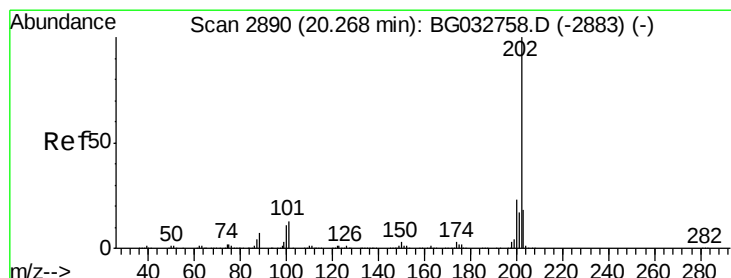
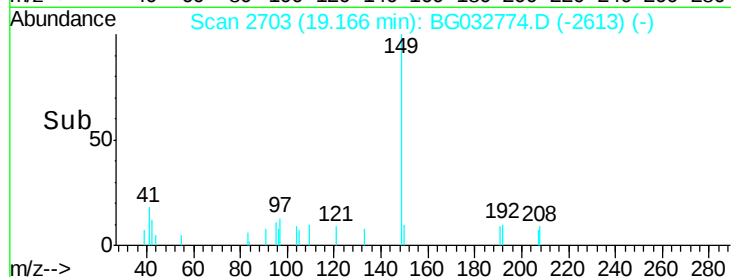
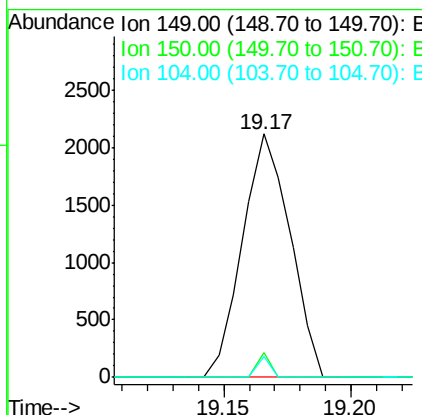
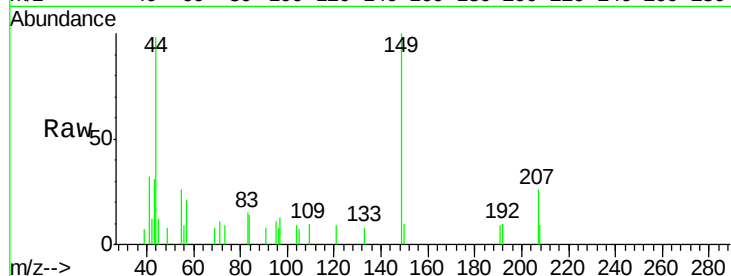
Time-->



#73  
Di-n-butylphthalate  
Concen: 0.097 ng  
RT: 19.17 min Scan# 2703  
Delta R.T. -0.00 min  
Lab File: BG032774.D  
Acq: 22 Feb 2018 1:38

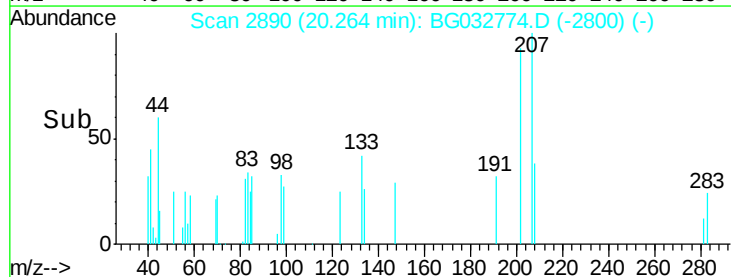
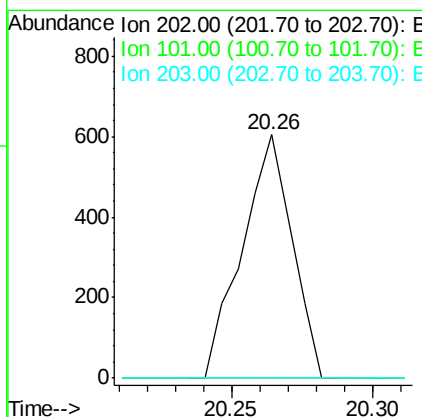
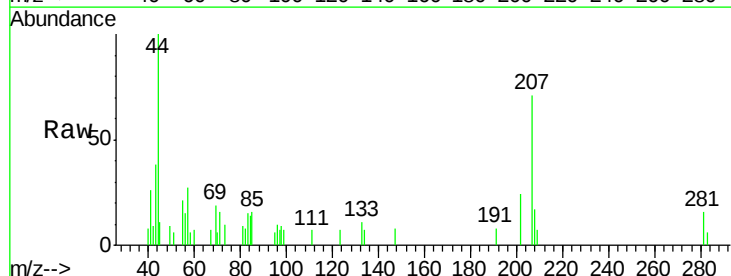
Instrument :  
BNA\_G  
ClientSampled :  
TP-1-2

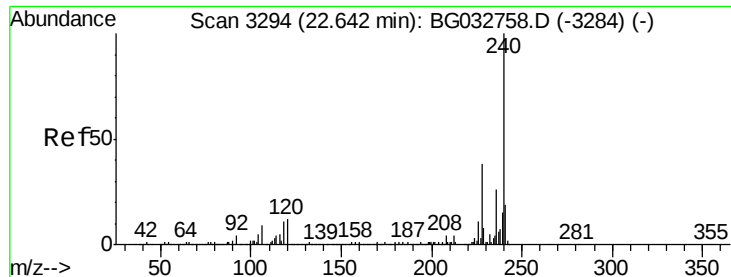
Tot Ion:149 Resp: 2778  
Ion Ratio Lower Upper  
149 100  
150 10.0 7.8 11.6  
104 8.7 3.9 5.9#



#74  
Fluoranthene  
Concen: 0.029 ng  
RT: 20.26 min Scan# 2890  
Delta R.T. -0.00 min  
Lab File: BG032774.D  
Acq: 22 Feb 2018 1:38

Tgt Ion:202 Resp: 742  
Ion Ratio Lower Upper  
202 100  
101 0.0 0.0 28.9  
203 0.0 0.0 37.5





#75

Chrysene-d12

Concen: 20.000 ng

RT: 22.63 min Scan# 3293

Delta R.T. -0.01 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

Instrument :

BNA\_G

ClientSampled :

TP-1-2

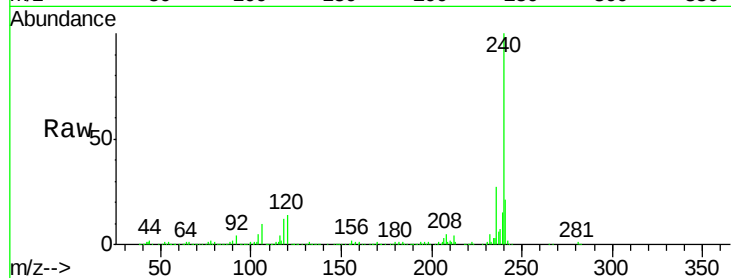
Tot Ion:240 Resp: 395399

Ion Ratio Lower Upper

240 100

120 14.1 6.8 10.2#

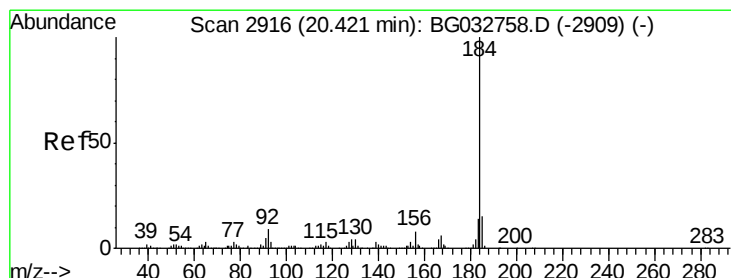
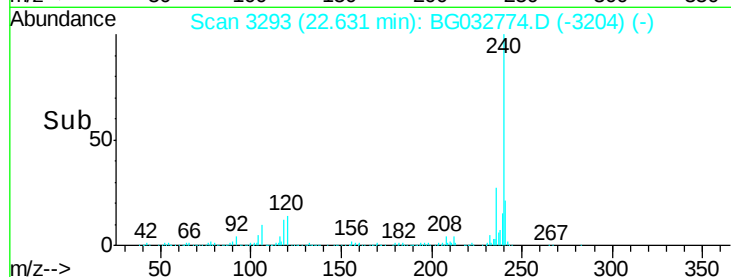
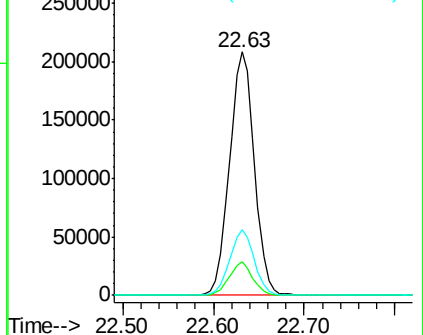
236 27.1 20.9 31.3



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: 0.090 ng

RT: 20.42 min Scan# 2916

Delta R.T. -0.00 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

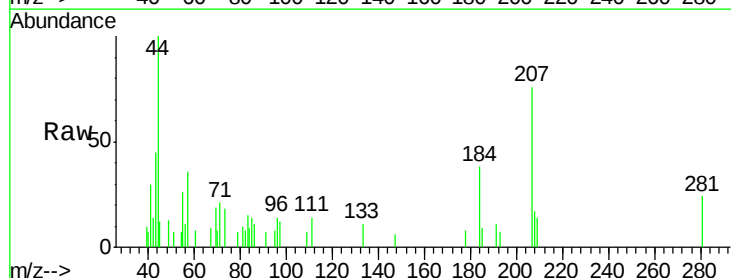
Tgt Ion:184 Resp: 1216

Ion Ratio Lower Upper

184 100

185 22.4 11.1 16.7#

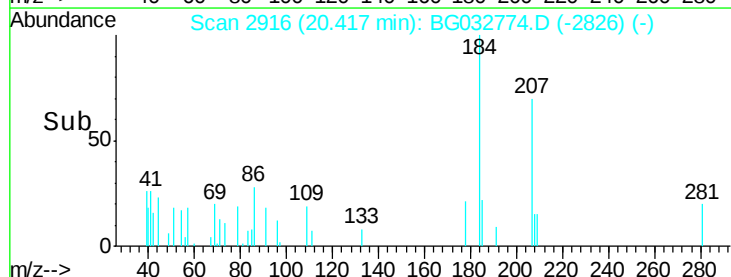
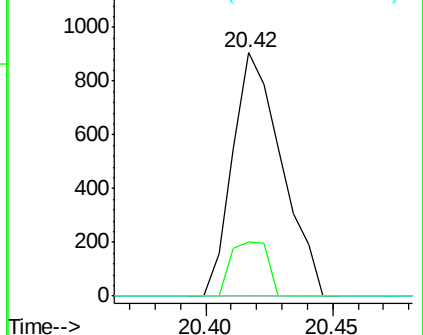
183 0.0 10.6 16.0#

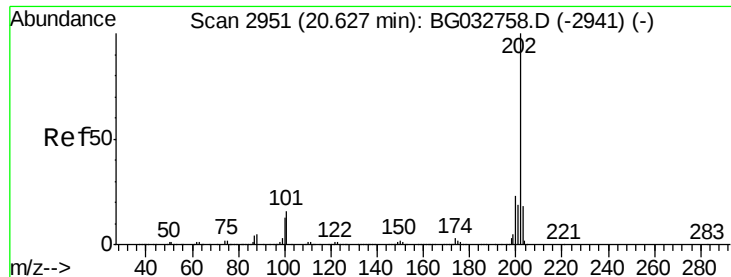


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#77

Pvrene

Concen: 0.027 ng

RT: 20.62 min Scan# 2951

Delta R.T. -0.00 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

Instrument :

BNA\_G

ClientSampleId :

TP-1-2

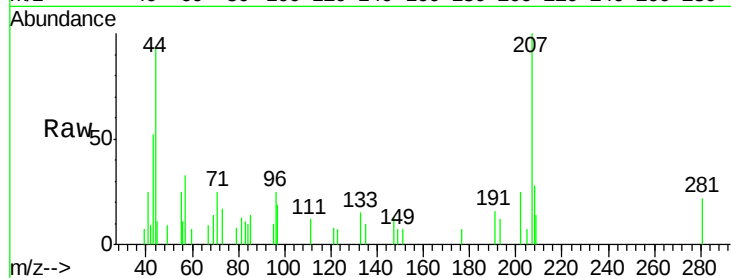
Tot Ion:202 Resp: 739

Ion Ratio Lower Upper

202 100

200 0.0 16.9 25.3#

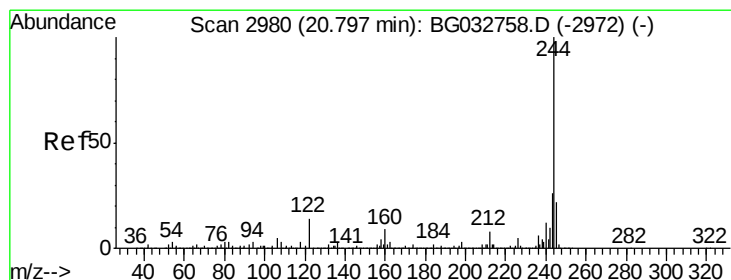
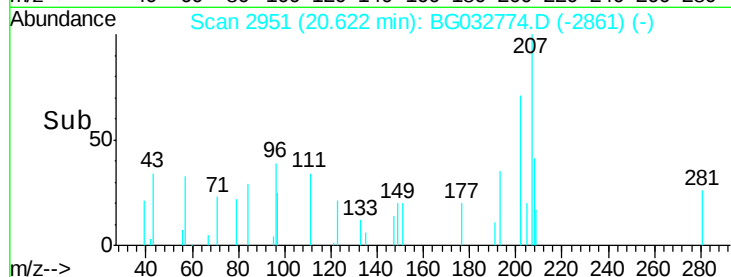
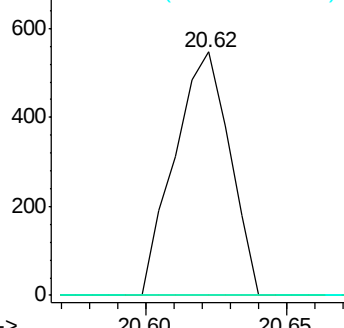
203 0.0 13.9 20.9#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 90.924 ng

RT: 20.79 min Scan# 2980

Delta R.T. -0.00 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

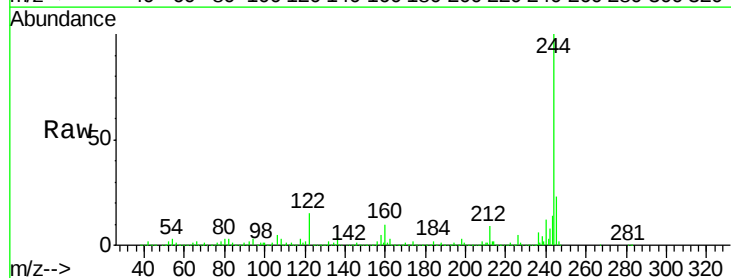
Tgt Ion:244 Resp: 1600163

Ion Ratio Lower Upper

244 100

212 8.6 5.8 8.8

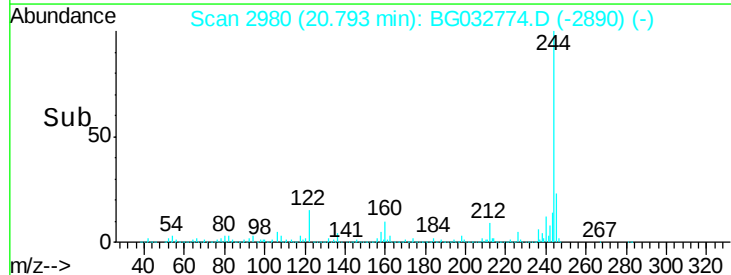
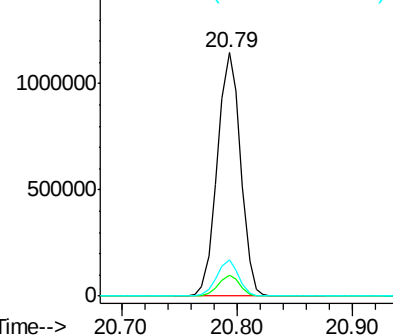
122 14.6 7.0 10.4#

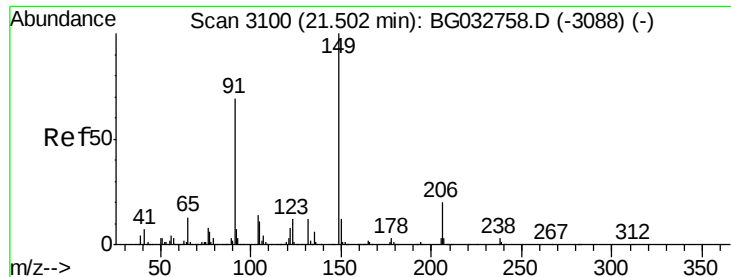


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

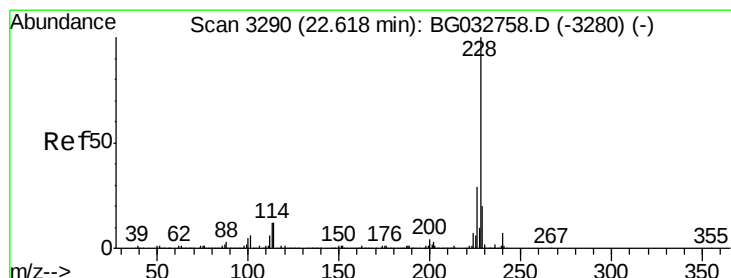
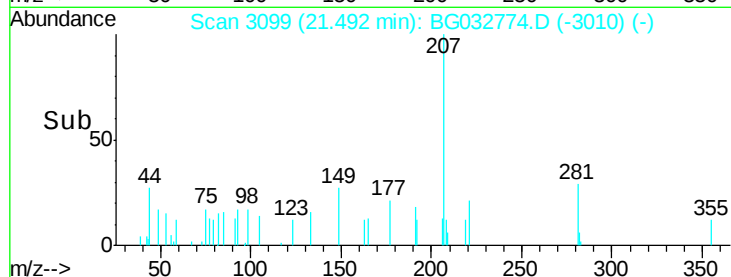
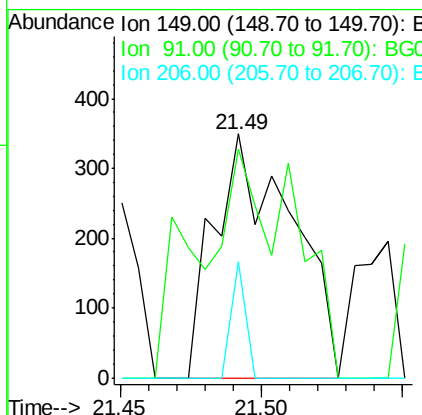
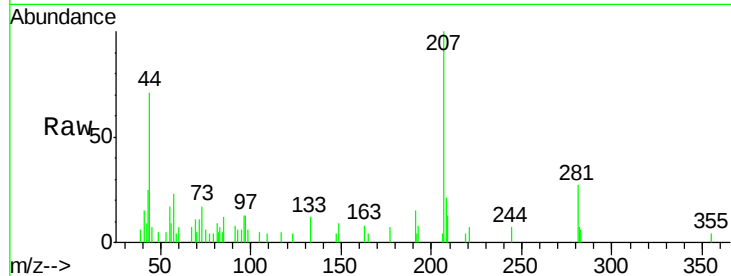




#79  
 Butylbenzylphthalate  
 Concen: 0.054 ng  
 RT: 21.49 min Scan# 3099  
 Delta R.T. -0.01 min  
 Lab File: BG032774.D  
 Acq: 22 Feb 2018 1:38

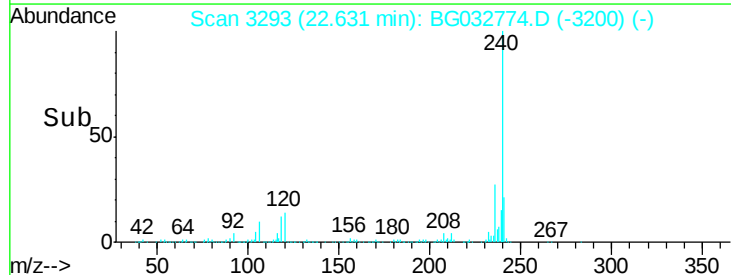
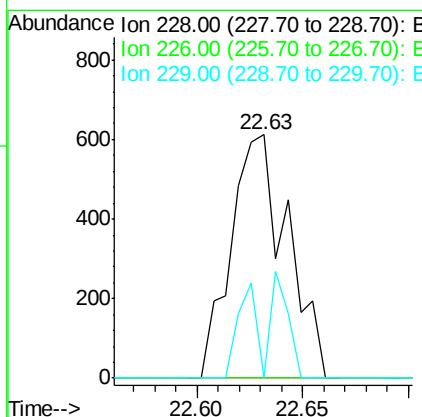
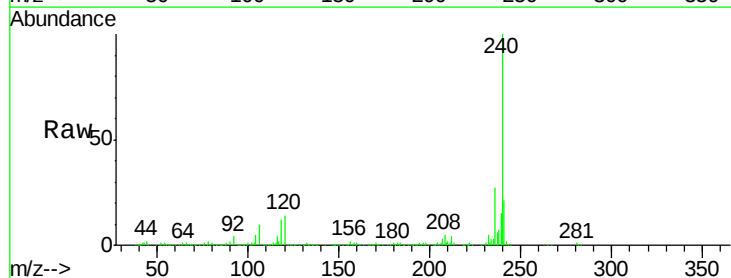
Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP-1-2

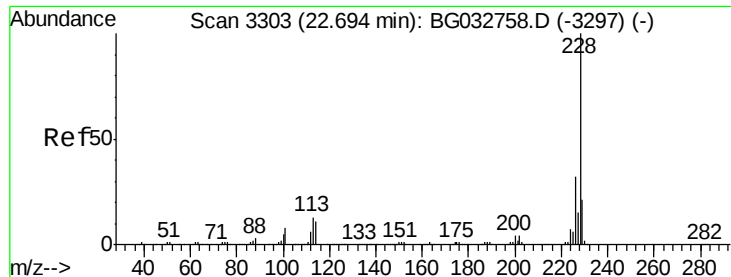
Tot Ion:149 Resp: 667  
 Ion Ratio Lower Upper  
 149 100  
 91 94.0 62.2 93.2#  
 206 47.9 18.6 27.8#



#80  
 Benzo(a)anthracene  
 Concen: 0.044 ng  
 RT: 22.63 min Scan# 3293  
 Delta R.T. 0.01 min  
 Lab File: BG032774.D  
 Acq: 22 Feb 2018 1:38

Tgt Ion:228 Resp: 1128  
 Ion Ratio Lower Upper  
 228 100  
 226 0.0 22.7 34.1#  
 229 0.0 16.2 24.2#





#82

Chrysene

Concen: 0.047 ng

RT: 22.63 min Scan# 3293

Delta R.T. -0.06 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

Instrument :

BNA\_G

ClientSampleId :

TP-1-2

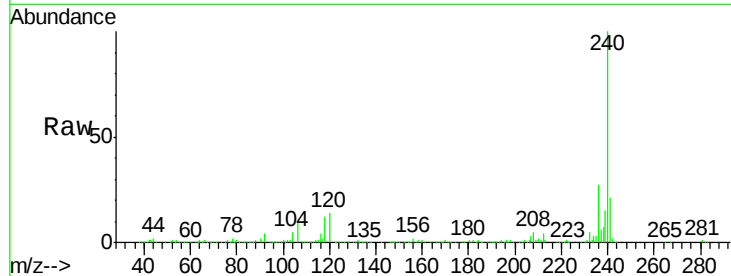
Tot Ion:228 Resp: 1128

Ion Ratio Lower Upper

228 100

226 0.0 24.9 37.3#

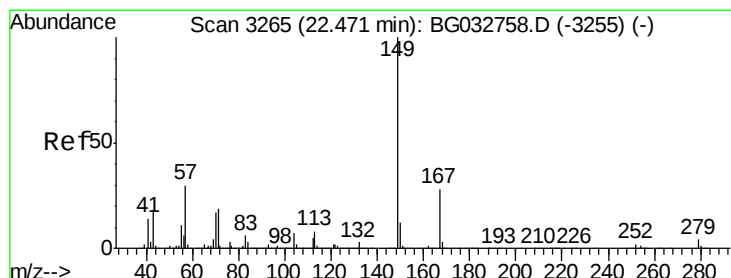
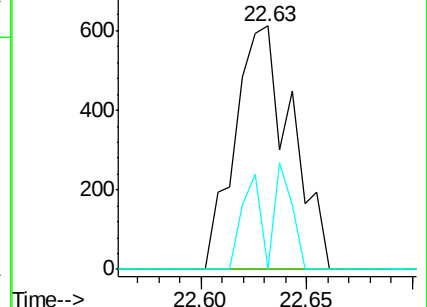
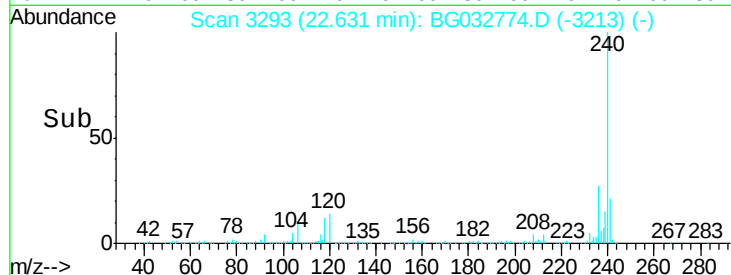
229 0.0 15.0 22.4#



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 0.176 ng

RT: 22.46 min Scan# 3264

Delta R.T. -0.01 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

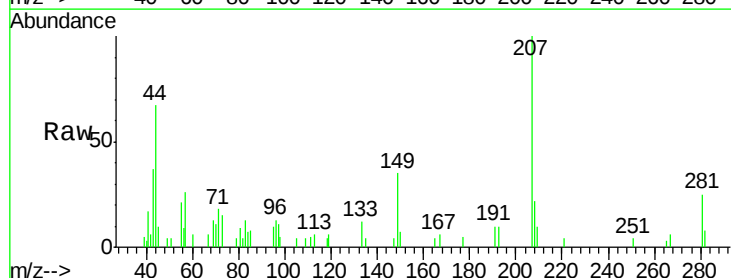
Tgt Ion:149 Resp: 3226

Ion Ratio Lower Upper

149 100

167 16.6 24.3 36.5#

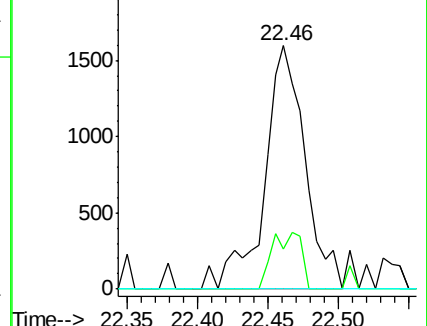
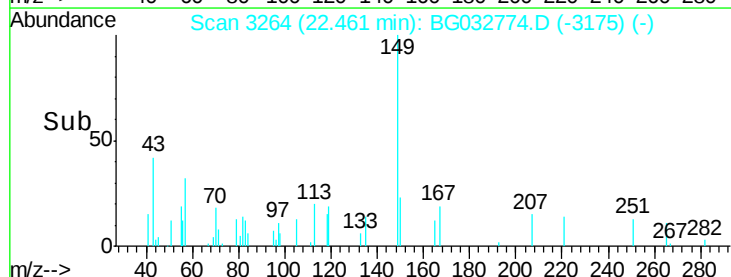
279 0.0 4.0 6.0#

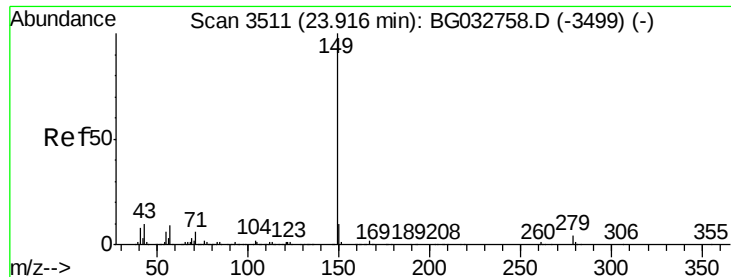


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#84

Di-n-octyl phthalate

Concen: 0.008 ng

RT: 23.91 min Scan# 3510

Delta R.T. -0.01 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

Instrument :

BNA\_G

ClientSampleId :

TP-1-2

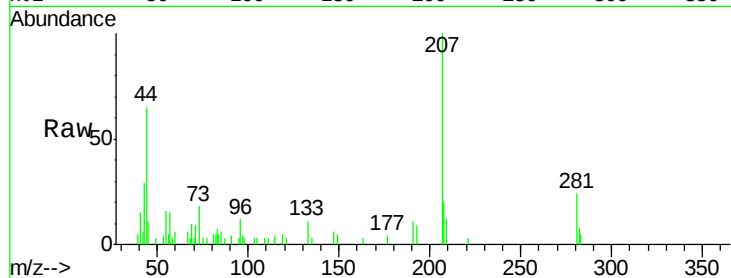
Tot Ion:149 Resp: 226

Ion Ratio Lower Upper

149 100

167 0.0 1.4 2.0#

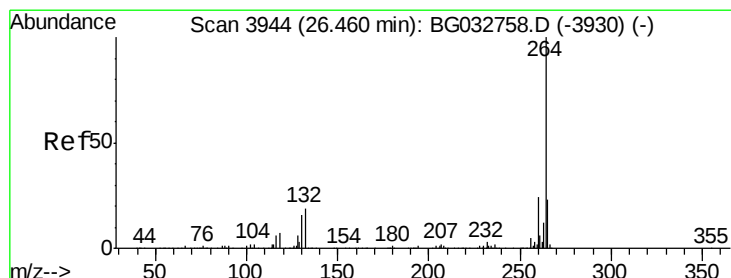
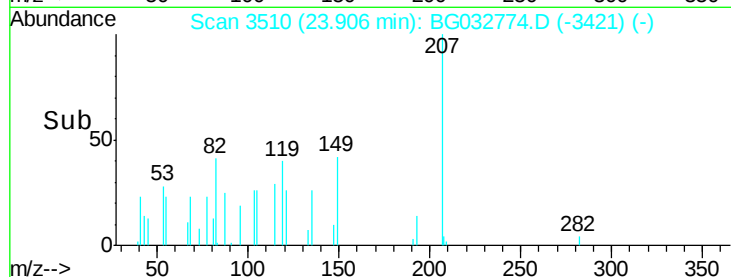
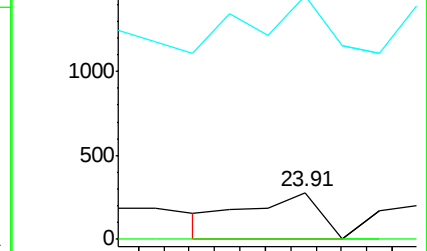
43 114.6 8.9 13.3#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BGC



#86

Perylene-d12

Concen: 20.000 ng

RT: 26.45 min Scan# 3943

Delta R.T. -0.01 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

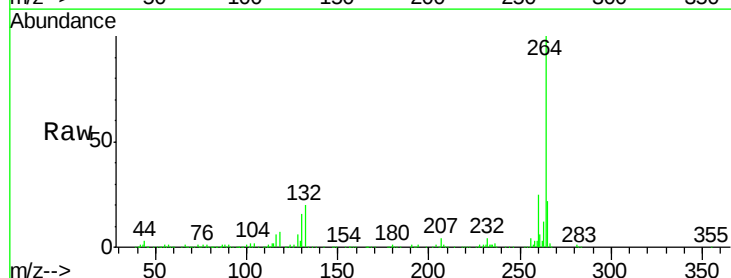
Tgt Ion:264 Resp: 423570

Ion Ratio Lower Upper

264 100

260 24.9 17.4 26.0

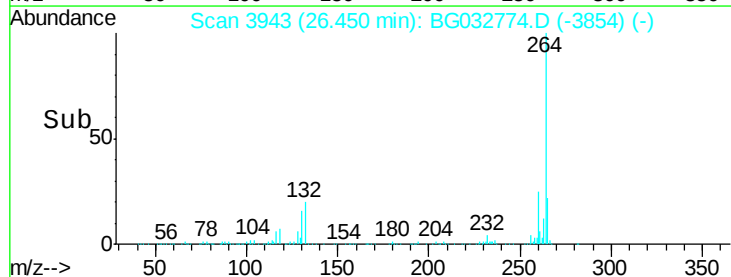
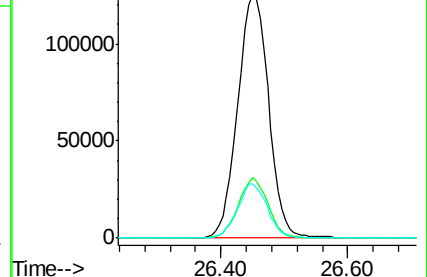
265 22.0 17.7 26.5

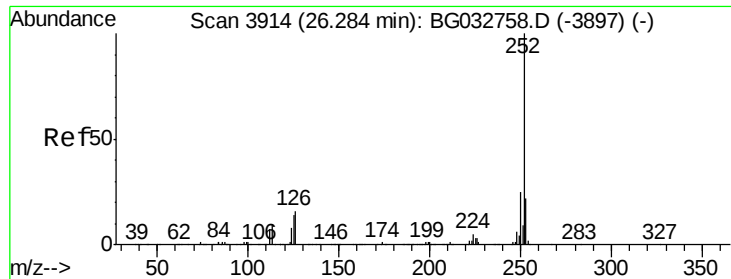


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#89

Benzo(a)pyrene

Concen: 0.071 ng

RT: 26.44 min Scan# 3942

Delta R.T. 0.16 min

Lab File: BG032774.D

Acq: 22 Feb 2018 1:38

Instrument :

BNA\_G

ClientSampleId :

TP-1-2

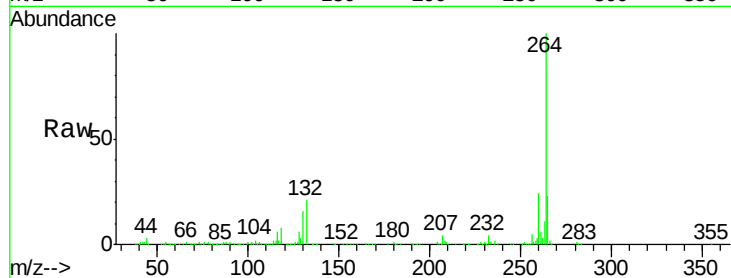
Tot Ion: 252 Resp: 1682

Ion Ratio Lower Upper

252 100

253 28.2 18.3 27.5#

125 36.0 7.3 10.9#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

