

Data Path : Z:\HPCHEM1\BNA G\DATA\BG020718\  
 Data File : BG032595.D  
 Acq On : 7 Feb 2018 15:56  
 Operator : SJ/JU  
 Sample : J1461-02  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Feb 08 02:24:38 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG012918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Feb 06 18:57:08 2018  
 Response via : Initial Calibration

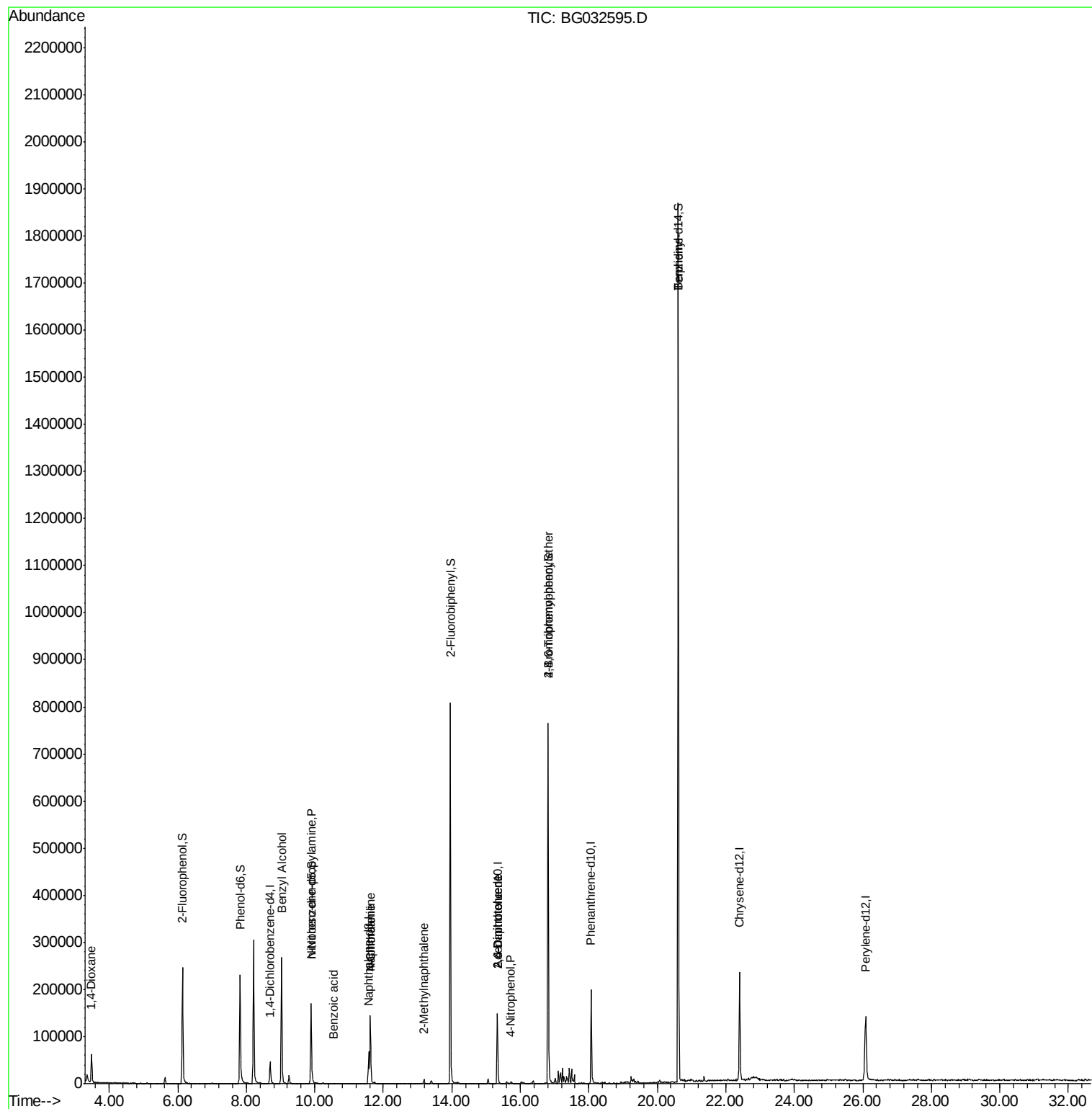
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.70  | 152  | 18296    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 11.57 | 136  | 74905    | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 15.33 | 164  | 60340    | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 18.07 | 188  | 148603   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 22.40 | 240  | 184904   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 26.08 | 264  | 199132   | 20.00  | ng    | 0.02     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 6.14  | 112  | 133173   | 146.20 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.82  | 99   | 165991   | 136.56 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.89  | 82   | 118383   | 98.72  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 16.81 | 330  | 194680   | 169.50 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 13.96 | 172  | 498747   | 98.24  | ng    | -0.01    |
| 78) Terphenyl-d14              | 20.61 | 244  | 1018364  | 117.98 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 2) 1,4-Dioxane                 | 3.49  | 88   | 764      | 2.49   | ng    | # 1      |
| 15) Benzyl Alcohol             | 9.03  | 79   | 2519     | 2.51   | ng    | # 23     |
| 19) n-Nitroso-di-n-propylamine | 9.89  | 70   | 17176    | 21.31  | ng    | # 64     |
| 31) Naphthalene                | 11.62 | 128  | 147541   | 40.33  | ng    | 99       |
| 32) Benzoic acid               | 10.55 | 122  | 55       | 7.35   | ng    | # 1      |
| 33) 4-Chloroaniline            | 11.62 | 127  | 20360    | 12.48  | ng    | # 36     |
| 37) 2-Methylnaphthalene        | 13.19 | 142  | 7802     | 2.54   | ng    | 88       |
| 50) 2,6-Dinitrotoluene         | 15.33 | 165  | 8053     | 6.90   | ng    | # 20     |
| 55) 4-Nitrophenol              | 15.73 | 139  | 1672     | 2.19   | ng    | # 1      |
| 56) 2,4-Dinitrotoluene         | 15.33 | 165  | 8053     | 4.84   | ng    | # 18     |
| 66) 4-Bromophenyl-phenylether  | 16.81 | 248  | 14871    | 6.75   | ng    | # 1      |
| 76) Benzidine                  | 20.61 | 184  | 14440    | 3.98   | ng    | # 82     |

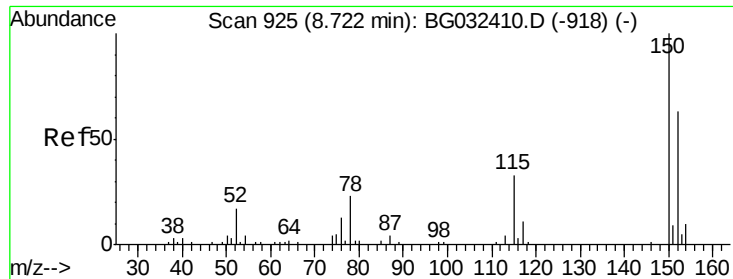
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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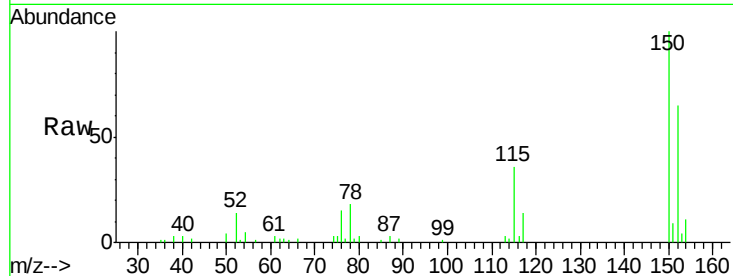


#1

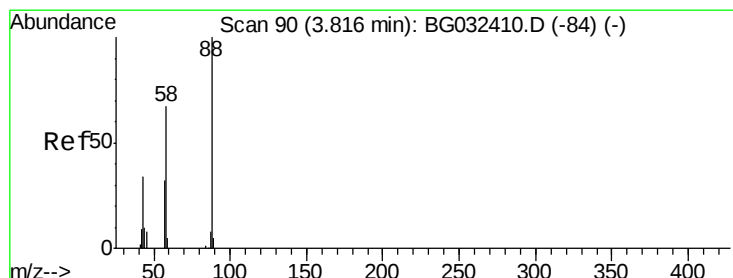
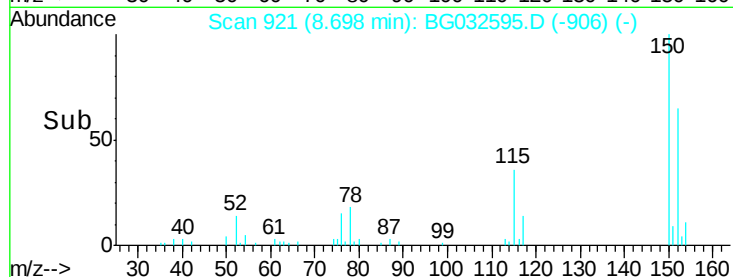
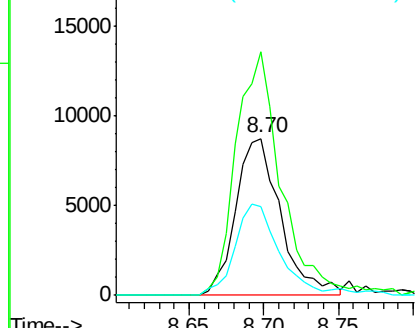
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.70 min Scan# 921  
Delta R.T. -0.01 min  
Lab File: BG032595.D  
Acq: 7 Feb 2018 15:56

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 18296  
Ion Ratio Lower Upper  
152 100  
150 154.9 126.6 189.8  
115 56.3 53.0 79.4



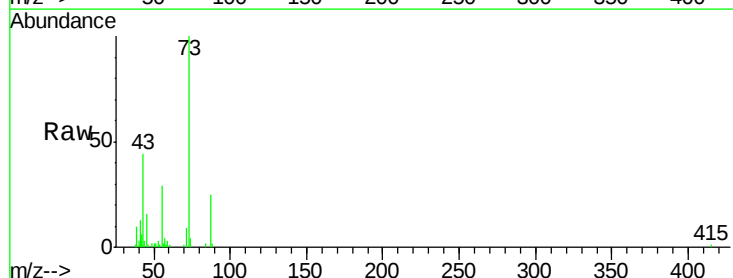
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



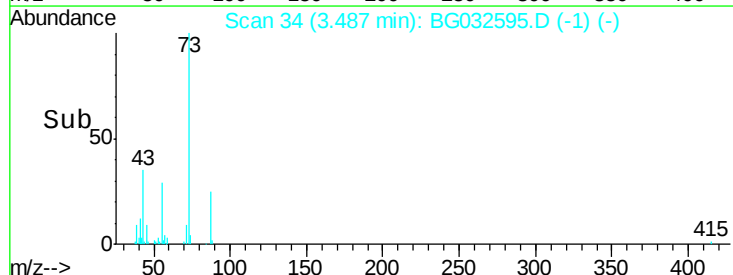
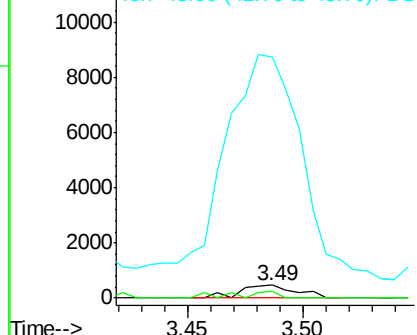
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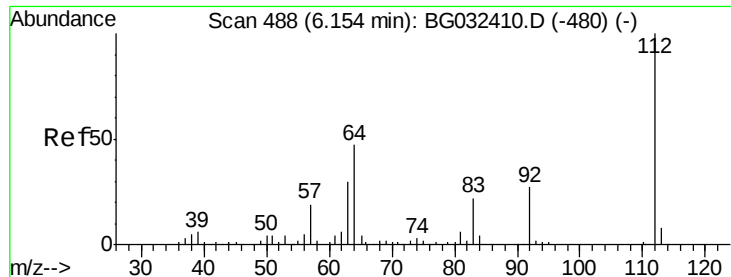
1,4-Dioxane  
Concen: 2.49 ng  
RT: 3.49 min Scan# 34  
Delta R.T. -0.32 min  
Lab File: BG032595.D  
Acq: 7 Feb 2018 15:56

Tgt Ion: 88 Resp: 764  
Ion Ratio Lower Upper  
88 100  
58 29.5 79.6 119.4#  
43 2483.1 27.4 41.0#



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





#5

2-Fluorophenol

Concen: 146.20 ng

RT: 6.14 min Scan# 485

Delta R.T. -0.01 min

Lab File: BG032595.D

Acq: 7 Feb 2018 15:56

Instrument :

BNA\_G

ClientSampled :

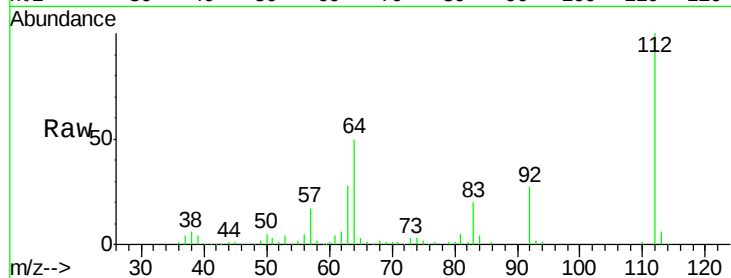
Tot Ion: 112 Resp: 133173

Ion Ratio Lower Upper

112 100

64 49.8 56.3 84.5#

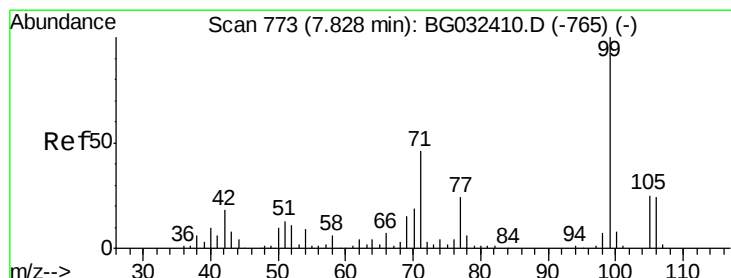
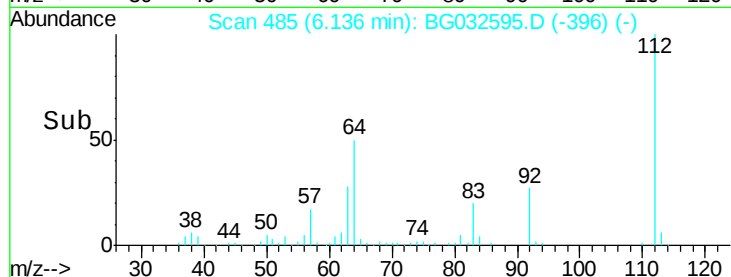
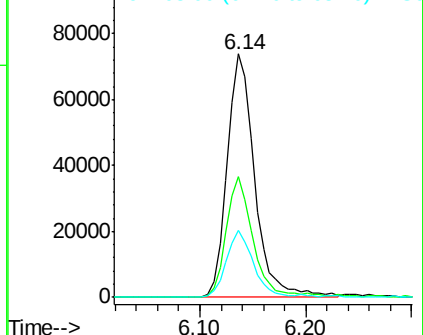
63 27.6 30.1 45.1#



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



#7

Phenol-d6

Concen: 136.56 ng

RT: 7.82 min Scan# 771

Delta R.T. -0.01 min

Lab File: BG032595.D

Acq: 7 Feb 2018 15:56

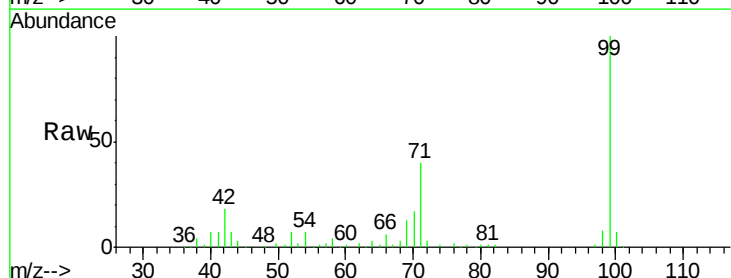
Tgt Ion: 99 Resp: 165991

Ion Ratio Lower Upper

99 100

42 18.2 14.1 21.1

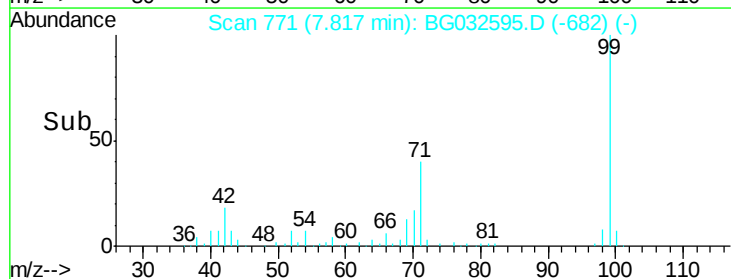
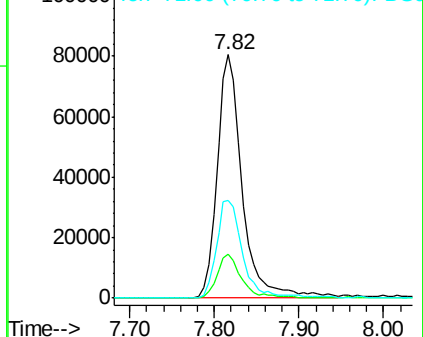
71 39.9 26.1 39.1#

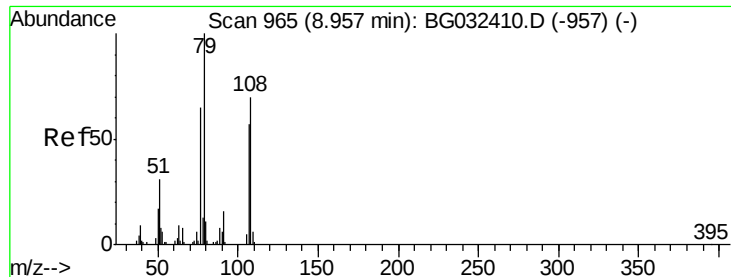


Abundance Ion 99.00 (98.70 to 99.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 71.00 (70.70 to 71.70): BGC





#15

Benzyl Alcohol

Concen: 2.51 ng

RT: 9.03 min Scan# 977

Delta R.T. 0.08 min

Lab File: BG032595.D

Acq: 7 Feb 2018 15:56

Instrument :

BNA\_G

ClientSampled :

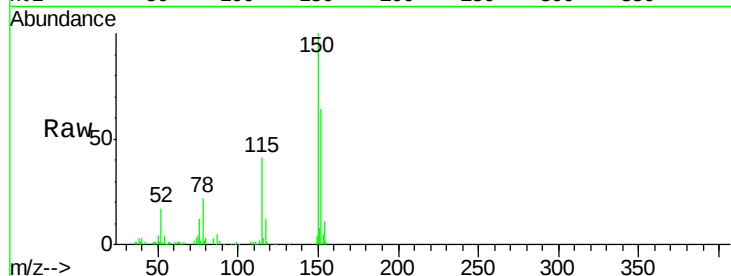
Tot Ion: 79 Resp: 2519

Ion Ratio Lower Upper

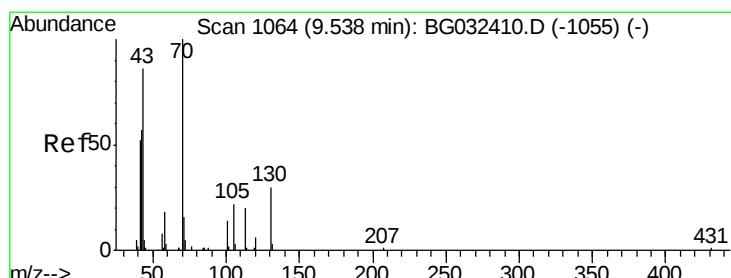
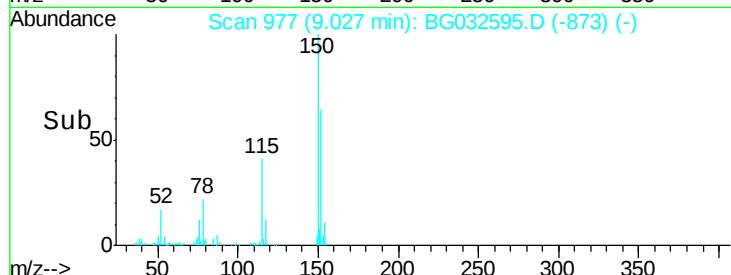
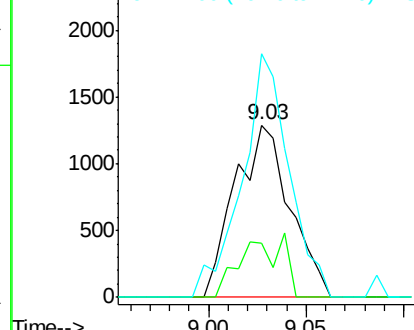
79 100

108 31.5 57.2 85.8#

77 141.1 46.1 69.1#



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



#19

n-Nitroso-di-n-propylamine

Concen: 21.31 ng

RT: 9.89 min Scan# 1124

Delta R.T. 0.38 min

Lab File: BG032595.D

Acq: 7 Feb 2018 15:56

Tgt Ion: 70 Resp: 17176

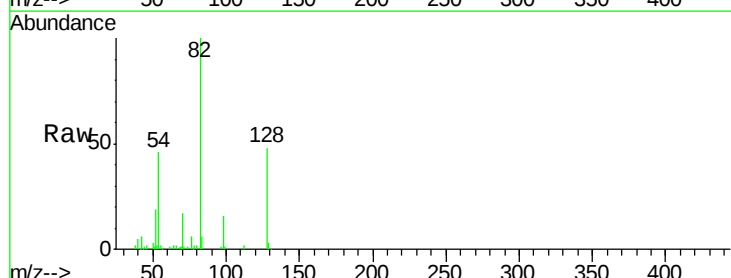
Ion Ratio Lower Upper

70 100

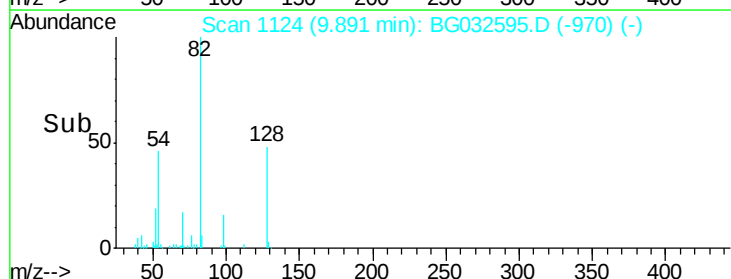
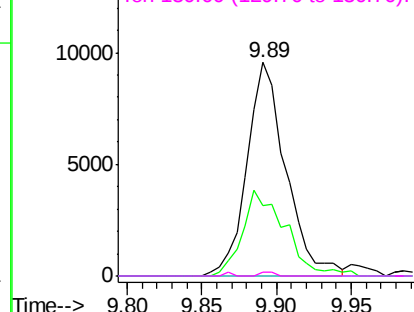
42 33.0 49.1 73.7#

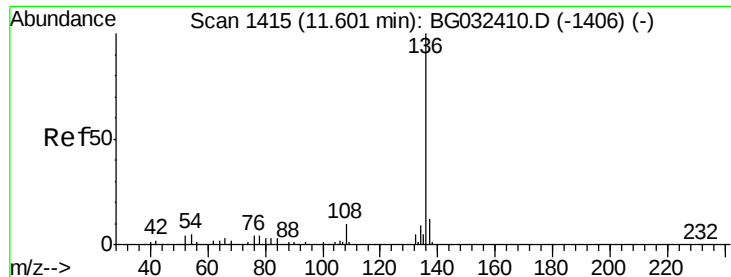
101 0.0 8.5 12.7#

130 1.9 13.4 20.0#



Abundance Ion 70.00 (69.70 to 70.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 101.00 (100.70 to 101.70): BGC  
Ion 130.00 (129.70 to 130.70): BGC

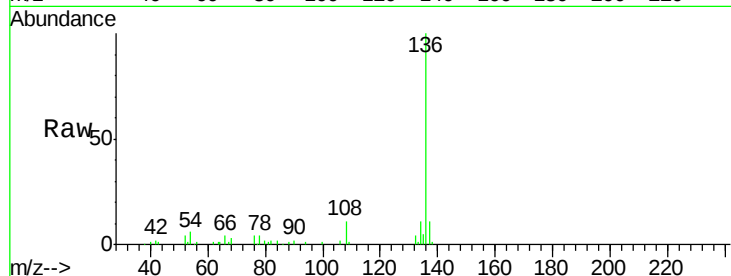




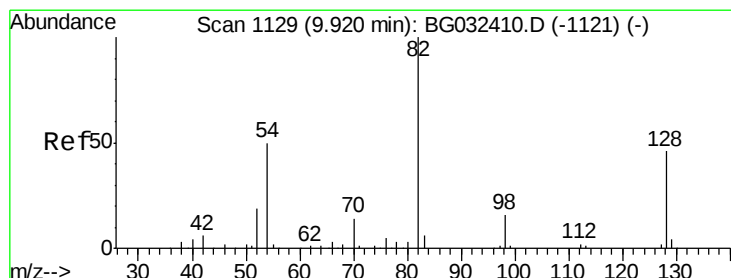
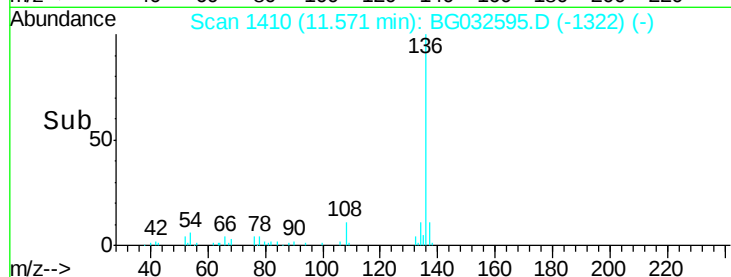
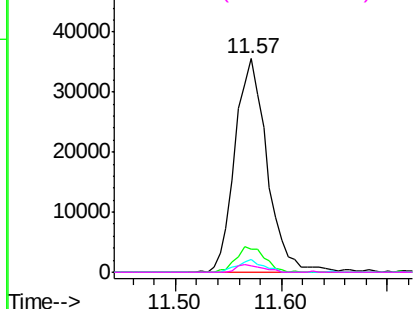
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 11.57 min Scan# 1410  
Delta R.T. -0.01 min  
Lab File: BG032595.D  
Acq: 7 Feb 2018 15:56

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tot Ion:136 | Resp: | 74905      |
| Ion Ratio   | Lower | Upper      |
| 136         | 100   |            |
| 137         | 10.8  | 9.2 13.8   |
| 54          | 6.1   | 10.3 15.5# |
| 68          | 2.8   | 4.5 6.7#   |

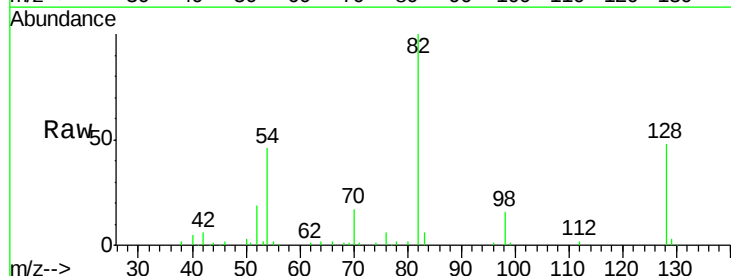


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

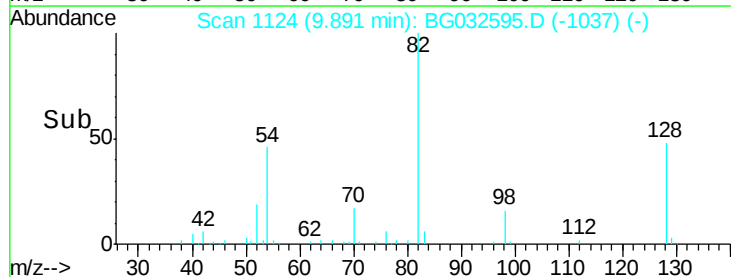
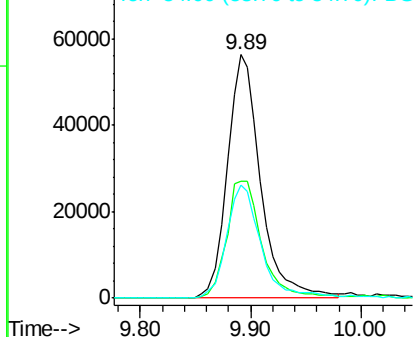


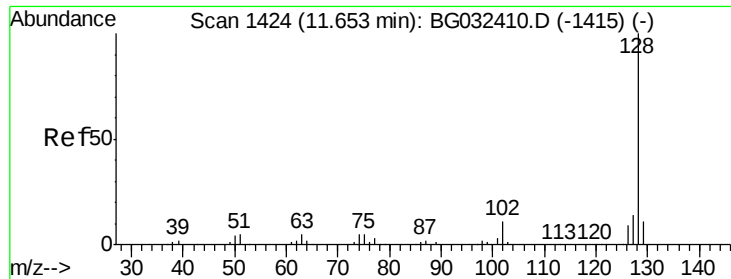
#23  
Nitrobenzene-d5  
Concen: 98.72 ng  
RT: 9.89 min Scan# 1124  
Delta R.T. -0.02 min  
Lab File: BG032595.D  
Acq: 7 Feb 2018 15:56

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 82 | Resp: | 118383     |
| Ion Ratio   | Lower | Upper      |
| 82          | 100   |            |
| 128         | 47.8  | 29.7 44.5# |
| 54          | 46.5  | 43.1 64.7  |



Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 128.00 (127.70 to 128.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC

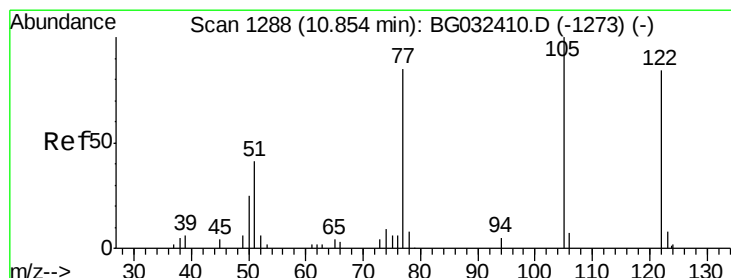
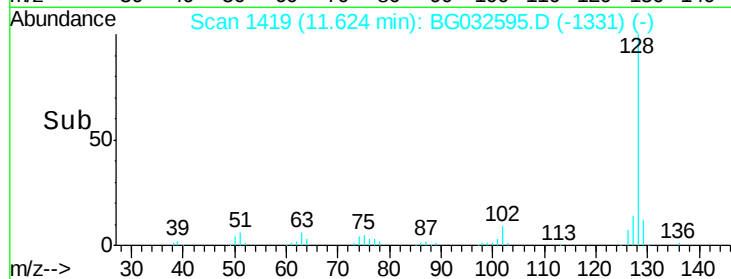
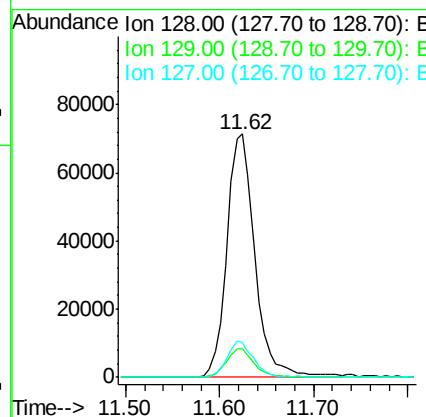
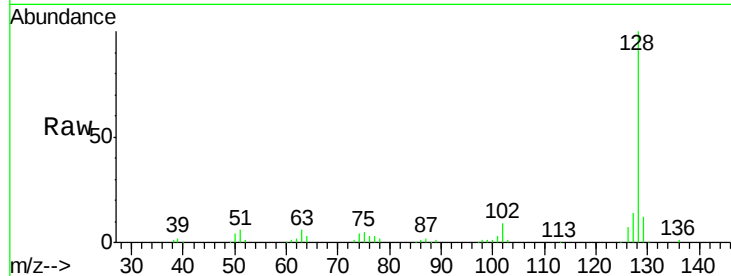




#31  
Naphthalene  
Concen: 40.33 ng  
RT: 11.62 min Scan# 1419  
Delta R.T. -0.01 min  
Lab File: BG032595.D  
Acq: 7 Feb 2018 15:56

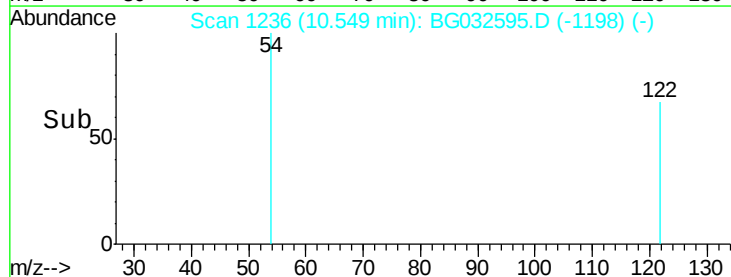
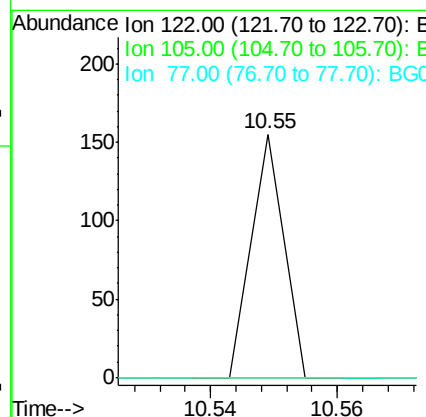
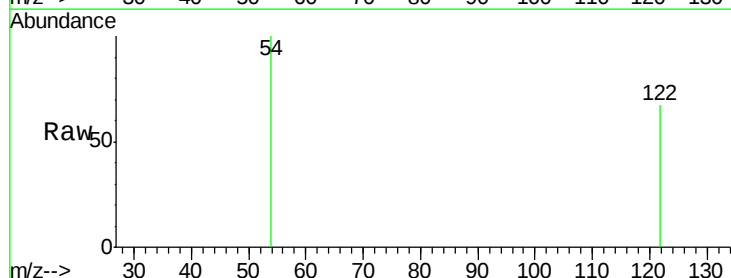
Instrument :  
BNA\_G  
ClientSampleId :

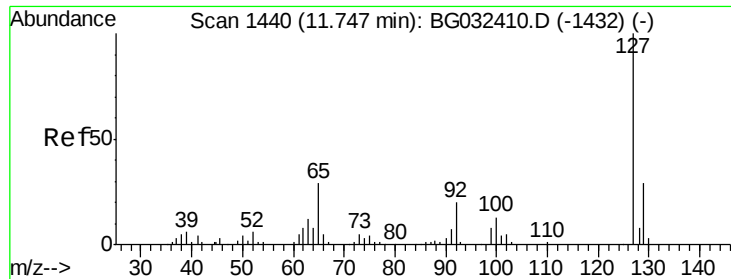
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Ion Ratio Lower Upper  
128 100  
129 11.6 8.6 12.8  
127 14.5 11.6 17.4



#32  
Benzoic acid  
Concen: 7.35 ng  
RT: 10.55 min Scan# 1236  
Delta R.T. -0.31 min  
Lab File: BG032595.D  
Acq: 7 Feb 2018 15:56

Tgt Ion:122 Resp: 55  
Ion Ratio Lower Upper  
122 100  
105 0.0 123.5 163.5#  
77 0.0 85.7 125.7#

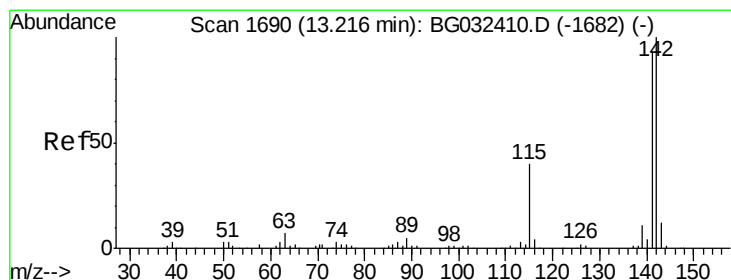
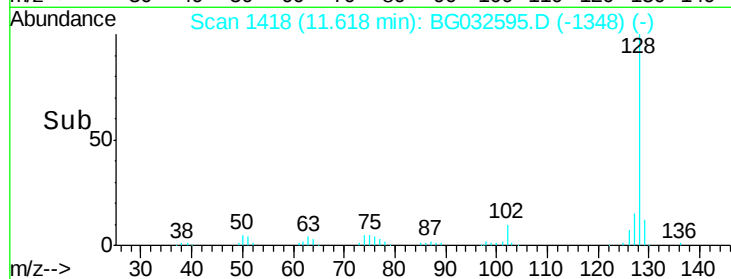
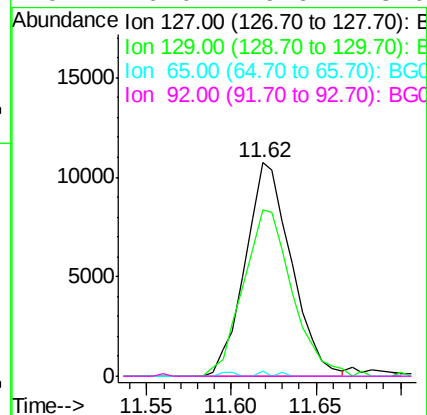
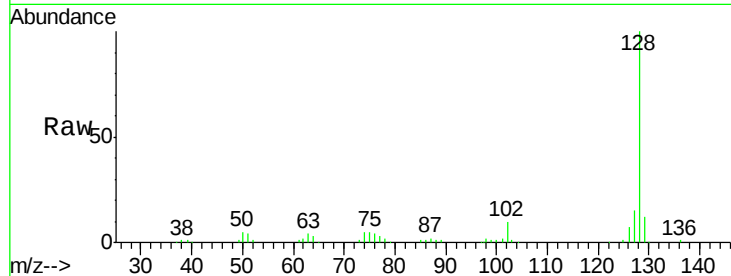




#33  
4-Chloroaniline  
Concen: 12.48 ng  
RT: 11.62 min Scan# 1418  
Delta R.T. -0.12 min  
Lab File: BG032595.D  
Acq: 7 Feb 2018 15:56

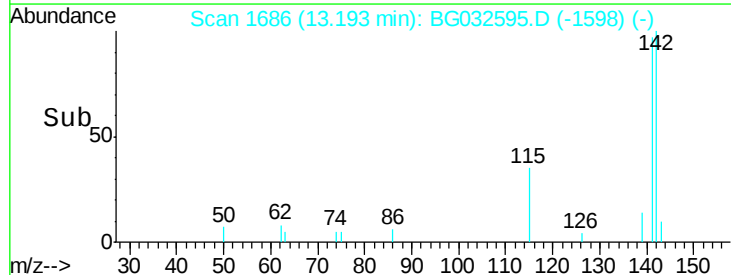
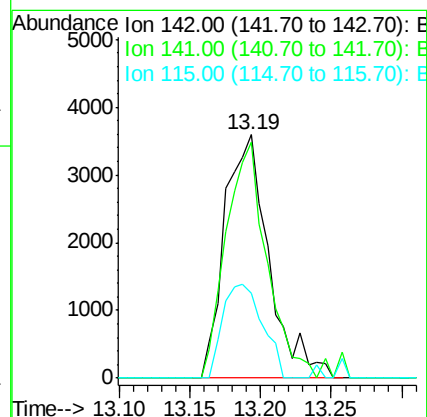
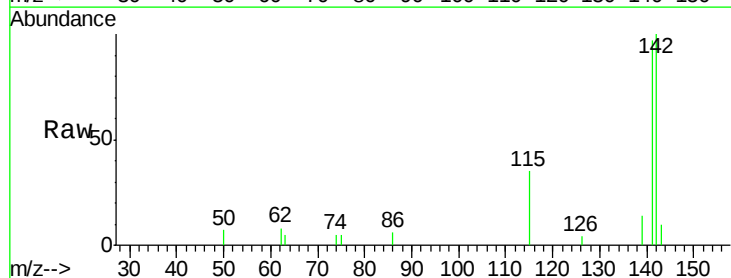
Instrument :  
BNA\_G  
ClientSampleId :

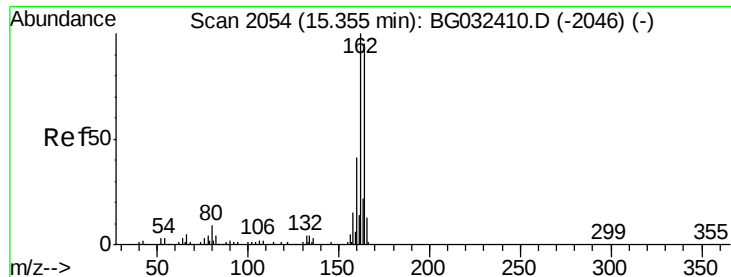
Tot Ion:127 Resp: 20360  
Ion Ratio Lower Upper  
127 100  
129 77.6 24.0 36.0#  
65 2.5 27.0 40.4#  
92 0.0 16.6 25.0#



#37  
2-Methylnaphthalene  
Concen: 2.54 ng  
RT: 13.19 min Scan# 1686  
Delta R.T. -0.01 min  
Lab File: BG032595.D  
Acq: 7 Feb 2018 15:56

Tgt Ion:142 Resp: 7802  
Ion Ratio Lower Upper  
142 100  
141 97.0 67.1 100.7  
115 34.7 30.7 46.1

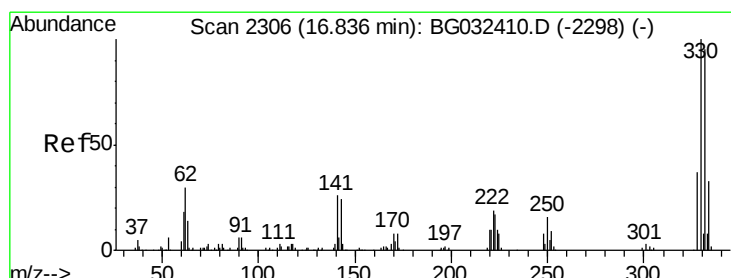
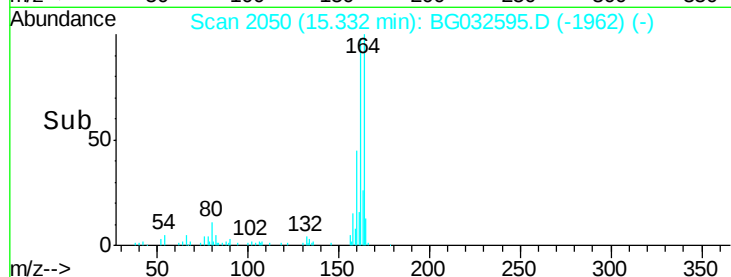
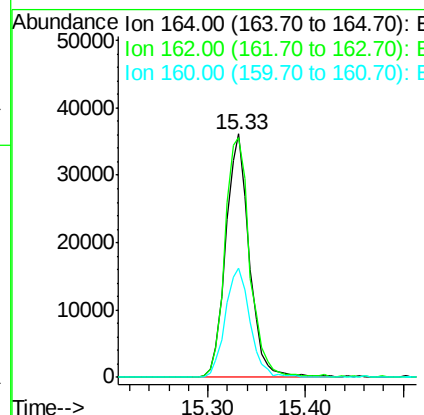
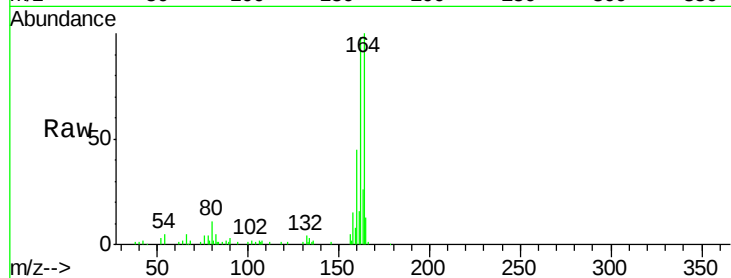




#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 15.33 min Scan# 2050  
Delta R.T. -0.01 min  
Lab File: BG032595.D  
Acq: 7 Feb 2018 15:56

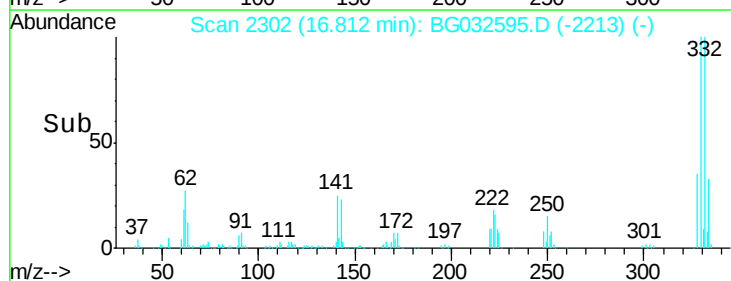
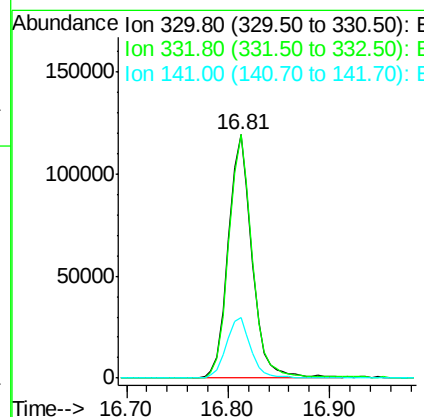
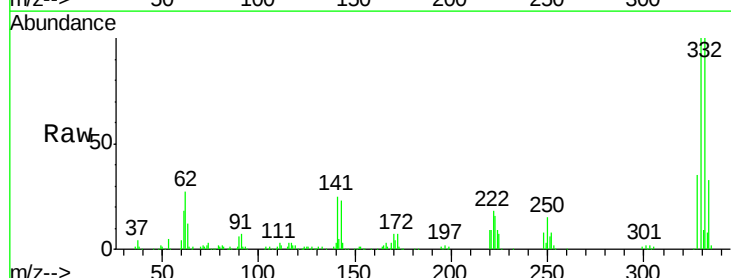
Instrument :  
BNA\_G  
ClientSampleId :

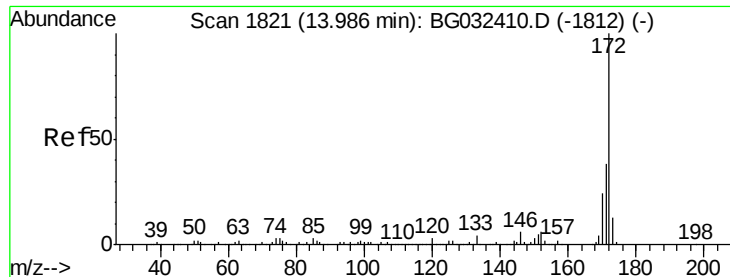
Tot Ion:164 Resp: 60340  
Ion Ratio Lower Upper  
164 100  
162 98.5 78.8 118.2  
160 45.0 35.4 53.0



#41  
2,4,6-Tribromophenol  
Concen: 169.50 ng  
RT: 16.81 min Scan# 2302  
Delta R.T. -0.01 min  
Lab File: BG032595.D  
Acq: 7 Feb 2018 15:56

Tgt Ion:330 Resp: 194680  
Ion Ratio Lower Upper  
330 100  
332 98.5 77.0 115.6  
141 26.0 25.2 37.8

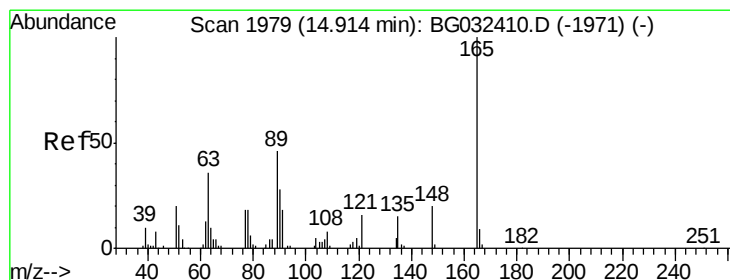
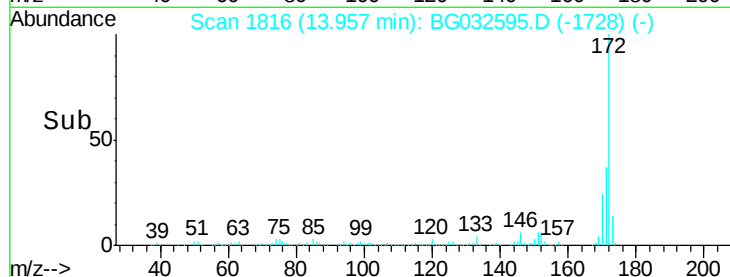
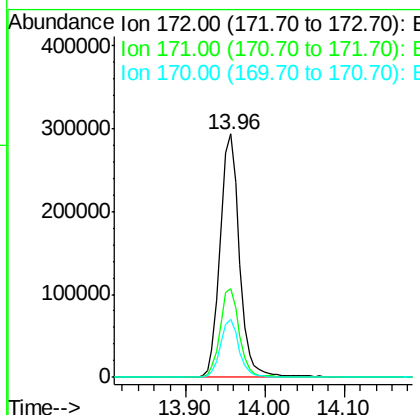
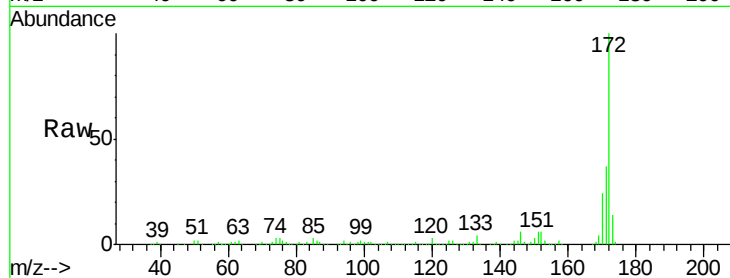




#44  
 2-Fluorobiphenyl  
 Concen: 98.24 ng  
 RT: 13.96 min Scan# 1816  
 Delta R.T. -0.01 min  
 Lab File: BG032595.D  
 Acq: 7 Feb 2018 15:56

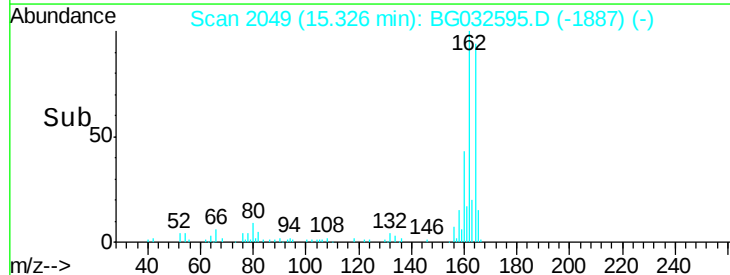
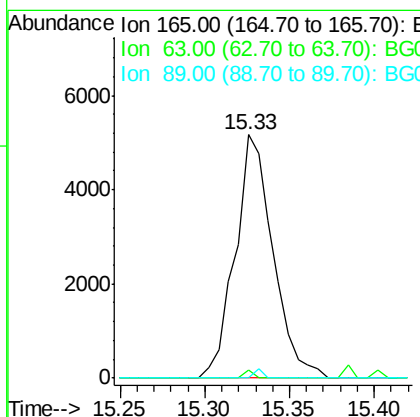
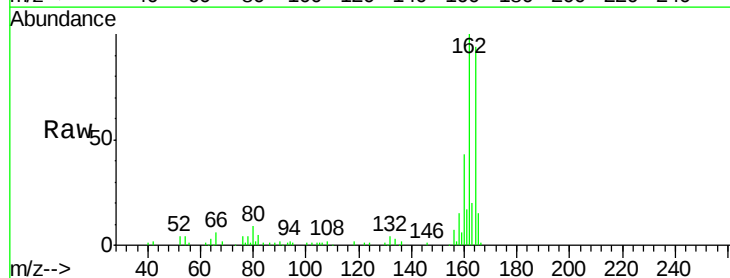
Instrument :  
 BNA\_G  
 ClientSampleId :

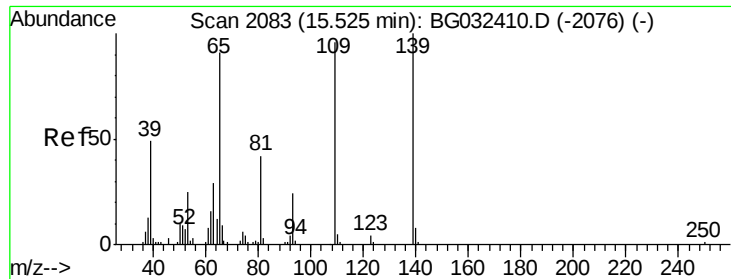
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.6  | 30.0  | 45.0  |
| 170     | 23.8  | 19.5  | 29.3  |



#50  
 2,6-Dinitrotoluene  
 Concen: 6.90 ng  
 RT: 15.33 min Scan# 2049  
 Delta R.T. 0.42 min  
 Lab File: BG032595.D  
 Acq: 7 Feb 2018 15:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 3.2   | 52.7  | 79.1# |
| 89      | 0.0   | 49.2  | 73.8# |

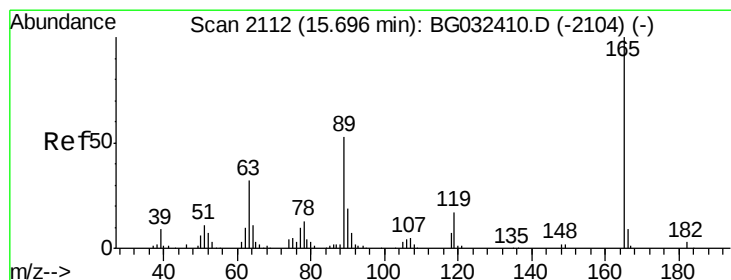
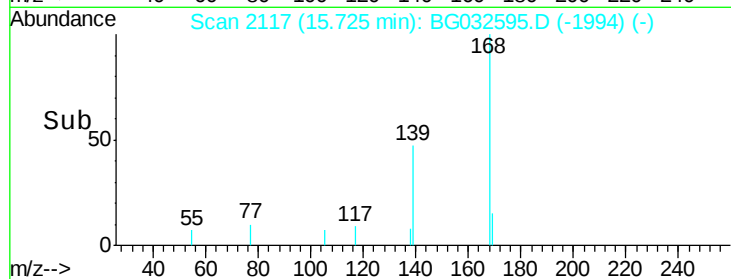
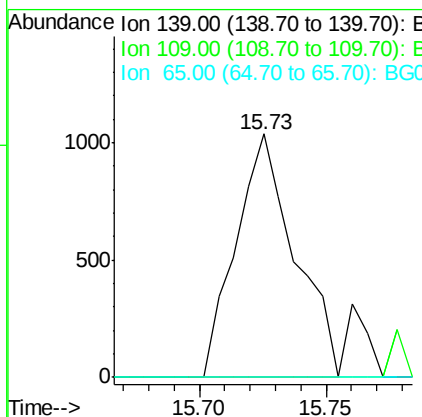
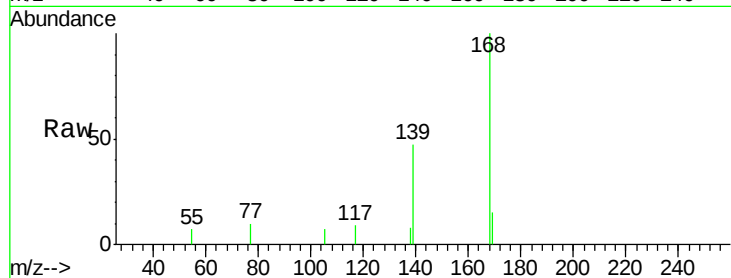




#55  
4-Nitrophenol  
Concen: 2.19 ng  
RT: 15.73 min Scan# 2117  
Delta R.T. 0.19 min  
Lab File: BG032595.D  
Acq: 7 Feb 2018 15:56

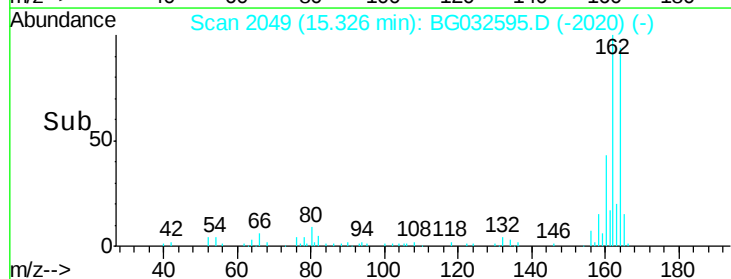
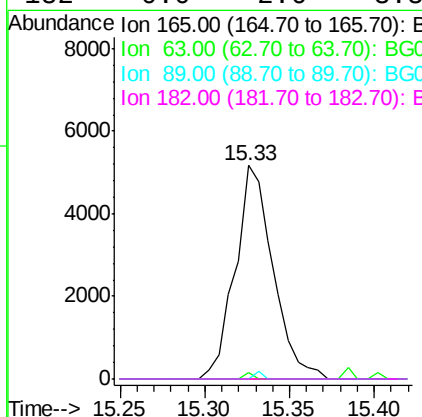
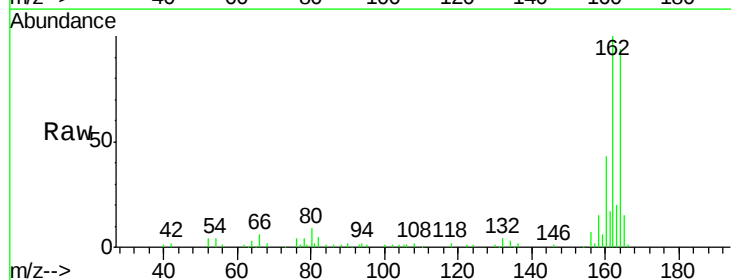
Instrument :  
BNA\_G  
ClientSampleId :

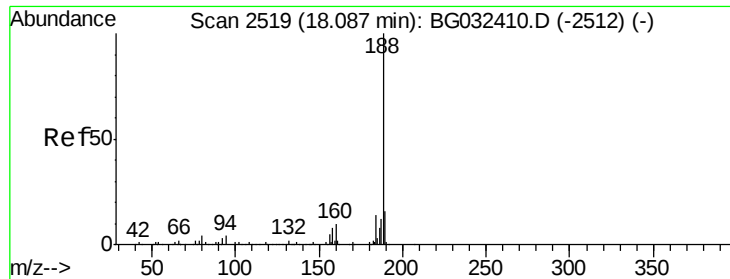
Tot Ion:139 Resp: 1672  
Ion Ratio Lower Upper  
139 100  
109 0.0 62.2 102.2#  
65 0.0 97.2 137.2#



#56  
2,4-Dinitrotoluene  
Concen: 4.84 ng  
RT: 15.33 min Scan# 2049  
Delta R.T. -0.36 min  
Lab File: BG032595.D  
Acq: 7 Feb 2018 15:56

Tgt Ion:165 Resp: 8053  
Ion Ratio Lower Upper  
165 100  
63 3.2 42.0 63.0#  
89 0.0 66.9 100.3#  
182 0.0 2.6 3.8#

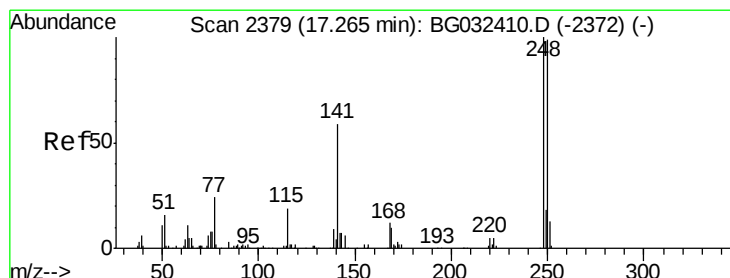
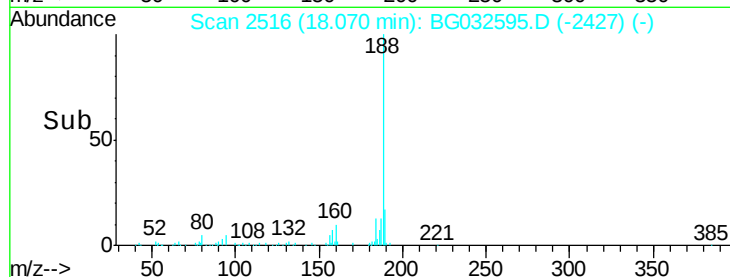
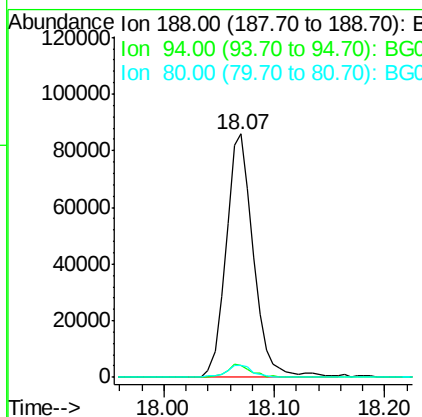
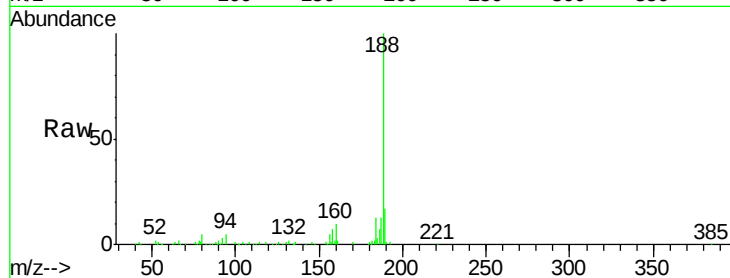




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 18.07 min Scan# 2516  
Delta R.T. -0.01 min  
Lab File: BG032595.D  
Acq: 7 Feb 2018 15:56

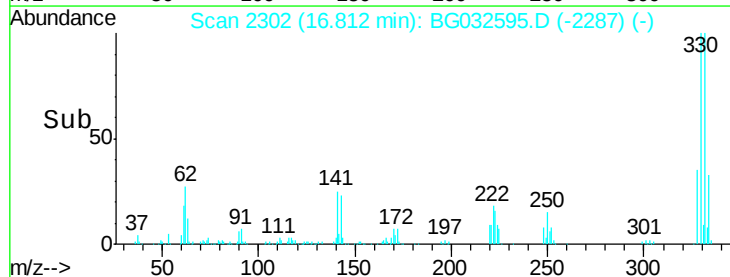
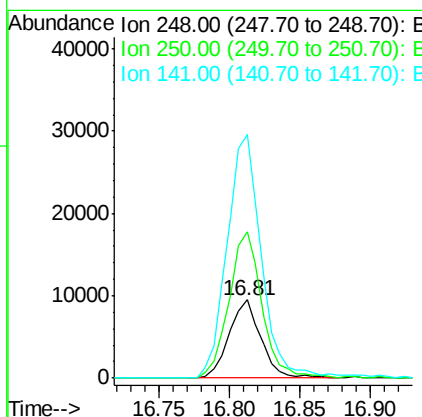
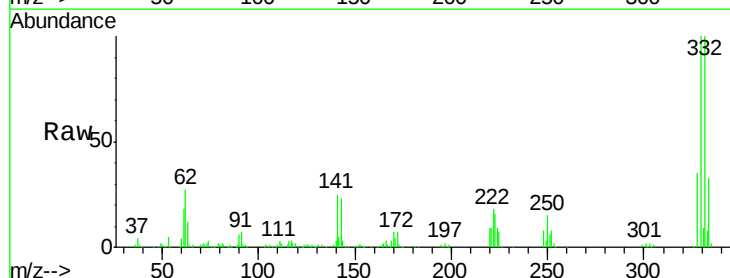
Instrument :  
BNA\_G  
ClientSampled :

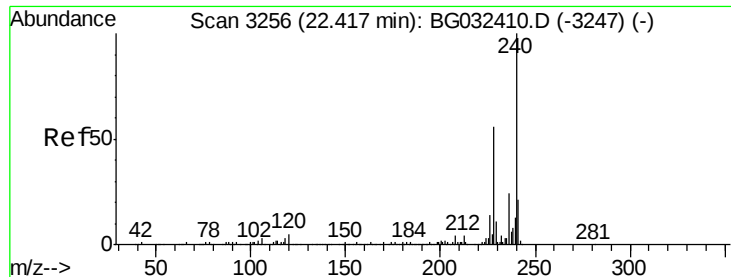
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 4.7   | 6.9   | 10.3# |
| 80      | 5.0   | 7.7   | 11.5# |



#66  
4-Bromophenyl-phenylether  
Concen: 6.75 ng  
RT: 16.81 min Scan# 2302  
Delta R.T. -0.44 min  
Lab File: BG032595.D  
Acq: 7 Feb 2018 15:56

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 188.2 | 77.1  | 115.7# |
| 141     | 312.0 | 50.8  | 76.2#  |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 22.40 min Scan# 3253

Delta R.T. -0.01 min

Lab File: BG032595.D

Acq: 7 Feb 2018 15:56

Instrument :

BNA\_G

ClientSampleId :

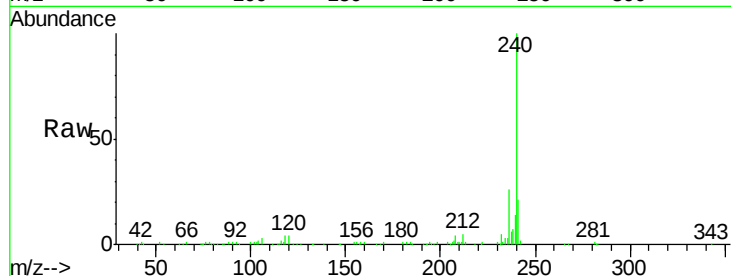
Tot Ion:240 Resp: 184904

Ion Ratio Lower Upper

240 100

120 4.5 6.8 10.2#

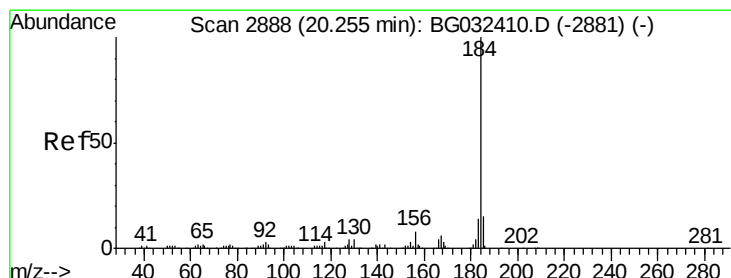
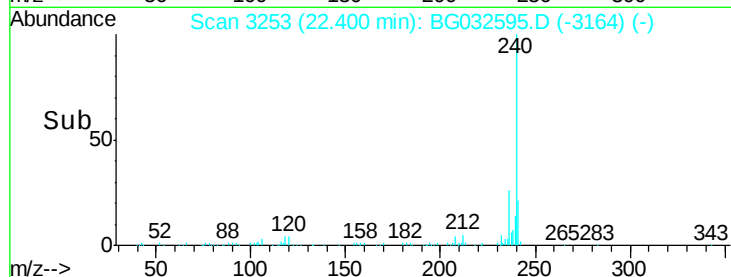
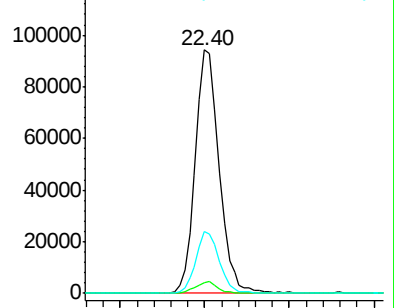
236 25.5 20.9 31.3



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: 3.98 ng

RT: 20.61 min Scan# 2949

Delta R.T. 0.37 min

Lab File: BG032595.D

Acq: 7 Feb 2018 15:56

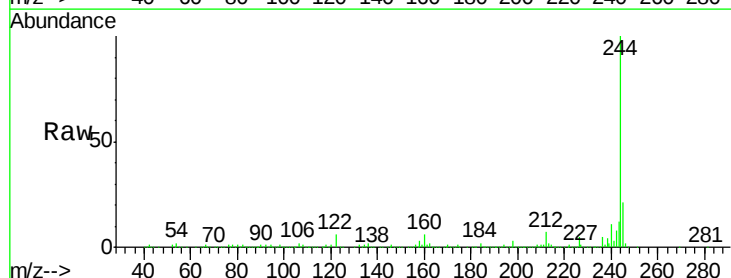
Tgt Ion:184 Resp: 14440

Ion Ratio Lower Upper

184 100

185 12.9 11.1 16.7

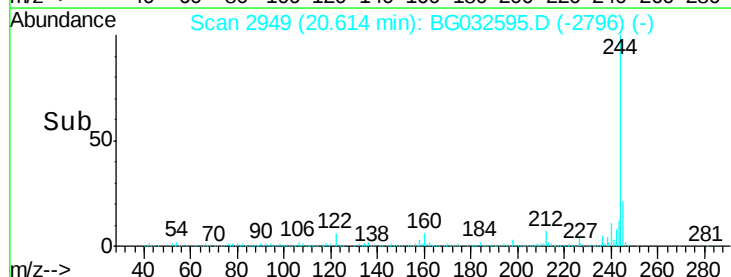
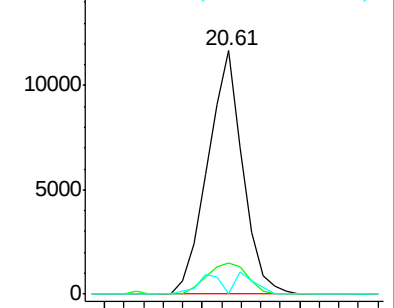
183 0.0 10.6 16.0#

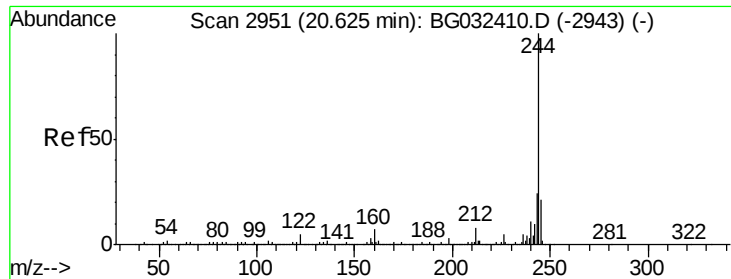


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

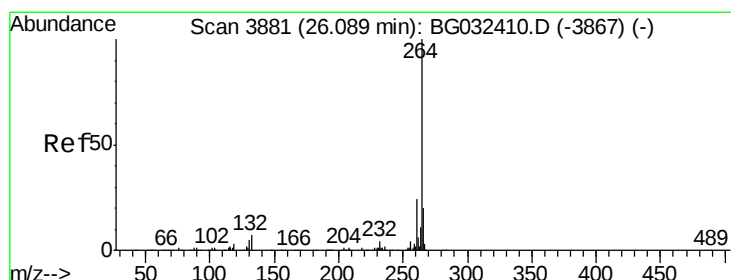
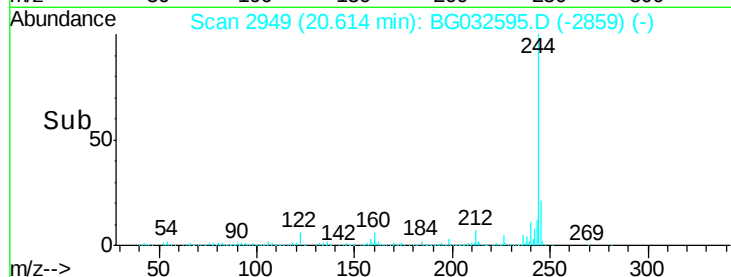
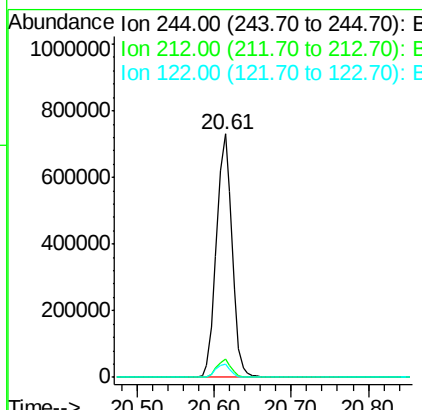
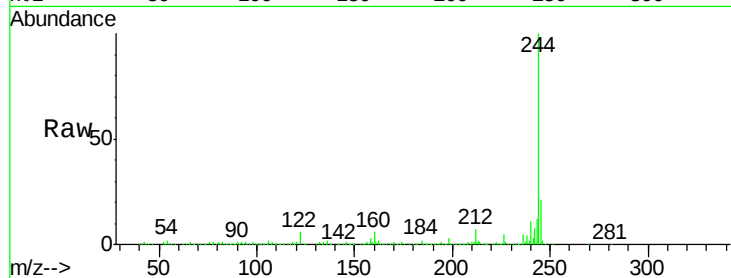




#78  
 Terphenyl-d14  
 Concen: 117.98 ng  
 RT: 20.61 min Scan# 2949  
 Delta R.T. -0.00 min  
 Lab File: BG032595.D  
 Acq: 7 Feb 2018 15:56

Instrument :  
 BNA\_G  
 ClientSampled :

Tot Ion:244 Resp: 1018364  
 Ion Ratio Lower Upper  
 244 100  
 212 7.3 5.8 8.8  
 122 5.5 7.0 10.4#



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 26.08 min Scan# 3880  
 Delta R.T. 0.02 min  
 Lab File: BG032595.D  
 Acq: 7 Feb 2018 15:56

Tgt Ion:264 Resp: 199132  
 Ion Ratio Lower Upper  
 264 100  
 260 22.5 17.4 26.0  
 265 20.6 17.7 26.5

