

Data Path : Z:\HPCHEM1\BNA G\DATA\BG021518\  
 Data File : BG032725.D  
 Acq On : 15 Feb 2018 22:19  
 Operator : SJ/JU  
 Sample : J1562-07  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Feb 16 02:26:59 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG021218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 12 18:08:01 2018  
 Response via : Initial Calibration

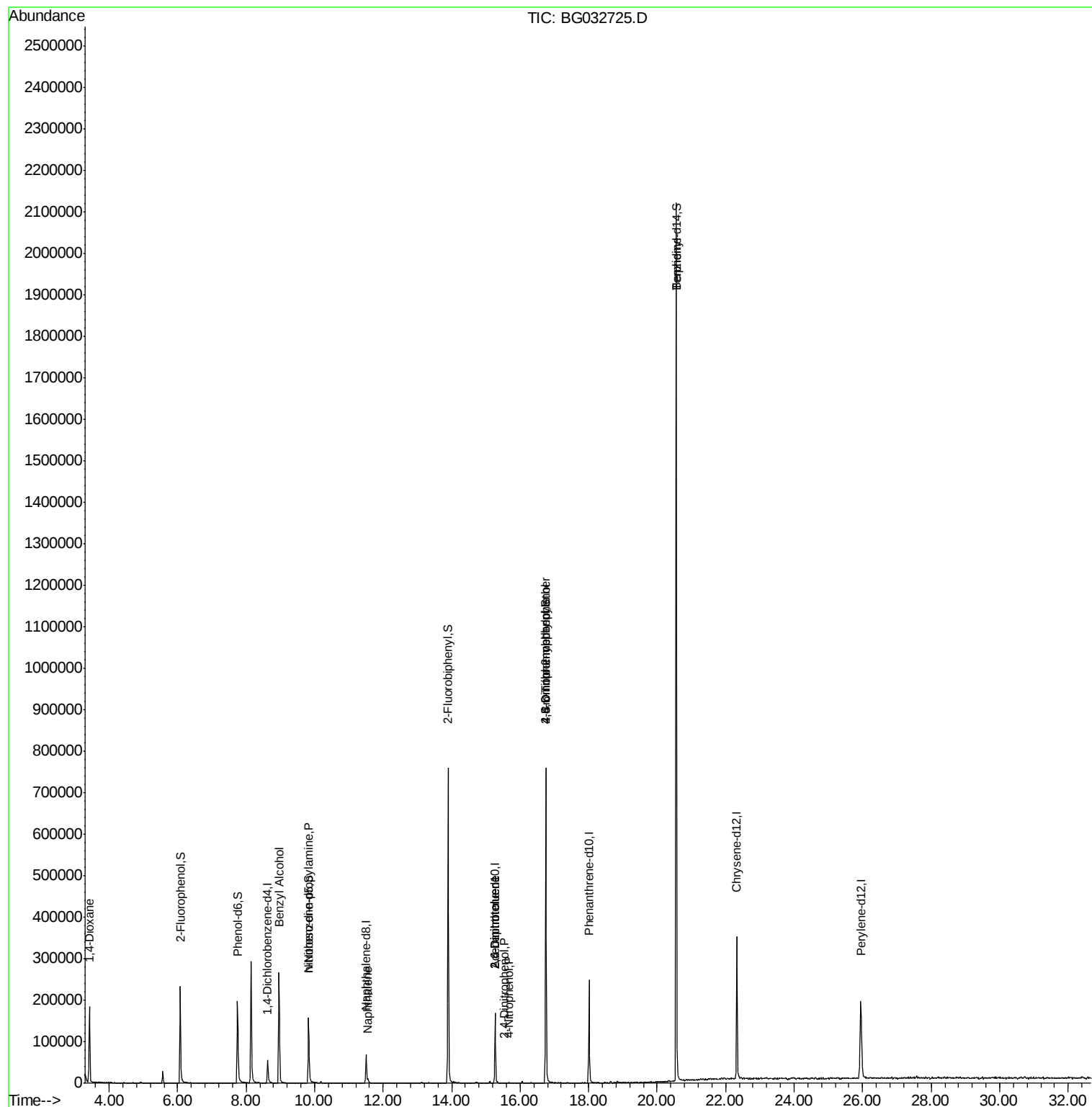
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.63  | 152  | 20411    | 20.00  | ng    | -0.05    |
| 21) Naphthalene-d8             | 11.50 | 136  | 77219    | 20.00  | ng    | -0.05    |
| 38) Acenaphthene-d10           | 15.27 | 164  | 68705    | 20.00  | ng    | -0.04    |
| 63) Phenanthrene-d10           | 18.01 | 188  | 179695   | 20.00  | ng    | -0.04    |
| 75) Chrysene-d12               | 22.33 | 240  | 252461   | 20.00  | ng    | -0.04    |
| 86) Perylene-d12               | 25.95 | 264  | 274891   | 20.00  | ng    | -0.07    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 6.08  | 112  | 127889   | 125.71 | ng    | -0.04    |
| 7) Phenol-d6                   | 7.75  | 99   | 136675   | 98.25  | ng    | -0.04    |
| 23) Nitrobenzene-d5            | 9.82  | 82   | 109535   | 90.15  | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol       | 16.75 | 330  | 184673   | 174.56 | ng    | -0.04    |
| 44) 2-Fluorobiphenyl           | 13.90 | 172  | 474579   | 86.38  | ng    | -0.04    |
| 78) Terphenyl-d14              | 20.56 | 244  | 1179835  | 106.52 | ng    | -0.03    |
| Target Compounds               |       |      |          |        |       |          |
| 2) 1,4-Dioxane                 | 3.43  | 88   | 1987     | 4.67   | ng    | # 1      |
| 15) Benzyl Alcohol             | 8.96  | 79   | 2341     | 2.25   | ng    | # 35     |
| 19) n-Nitroso-di-n-propylamine | 9.82  | 70   | 16295    | 17.42  | ng    | # 67     |
| 31) Naphthalene                | 11.55 | 128  | 9866     | 2.63   | ng    | # 95     |
| 50) 2,6-Dinitrotoluene         | 15.27 | 165  | 8890     | 7.27   | ng    | # 21     |
| 53) 2,4-Dinitrophenol          | 15.52 | 184  | 56       | 11.53  | ng    | # 1      |
| 55) 4-Nitrophenol              | 15.66 | 139  | 506      | 6.07   | ng    | # 1      |
| 56) 2,4-Dinitrotoluene         | 15.27 | 165  | 8890     | 5.28   | ng    | # 19     |
| 64) 4,6-Dinitro-2-methylphenol | 16.75 | 198  | 591      | 5.43   | ng    | # 85     |
| 66) 4-Bromophenyl-phenylether  | 16.75 | 248  | 14924    | 5.80   | ng    | # 1      |
| 76) Benzydine                  | 20.56 | 184  | 17277    | 2.91   | ng    | # 89     |

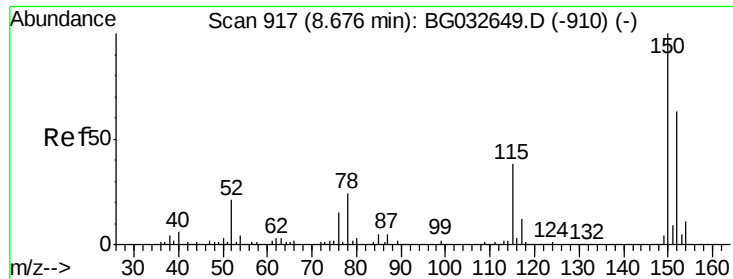
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Feb 16 02:26:59 2018  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG021218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Feb 12 18:08:01 2018  
Response via : Initial Calibration



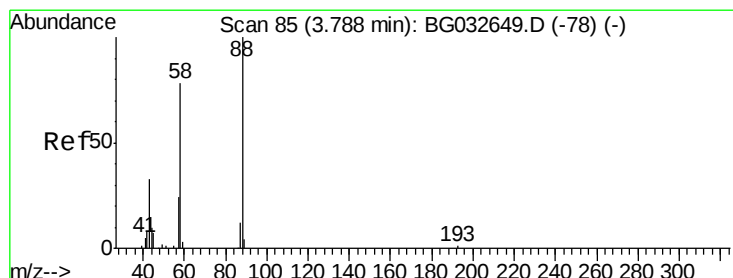
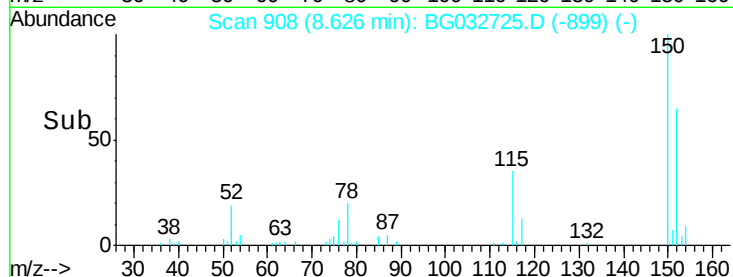
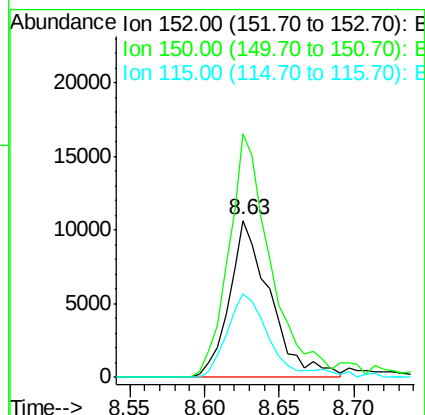
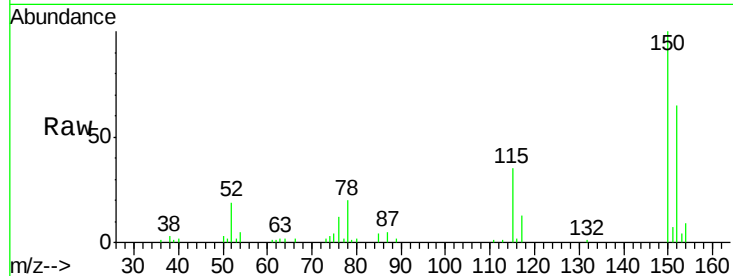


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.63 min Scan# 908  
Delta R.T. -0.05 min  
Lab File: BG032725.D  
Acq: 15 Feb 2018 22:19

Instrument :  
BNA\_G  
ClientSampled :

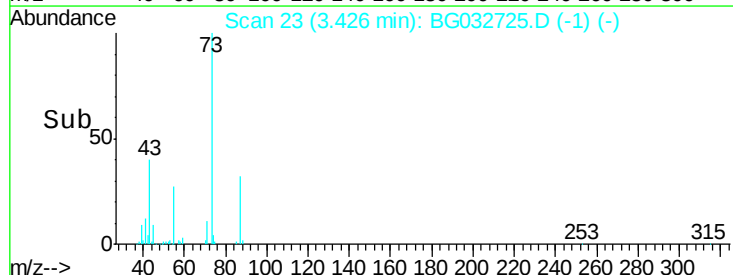
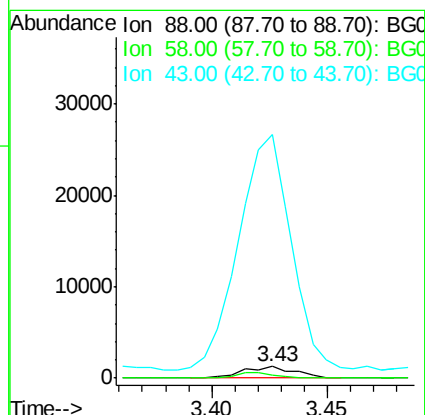
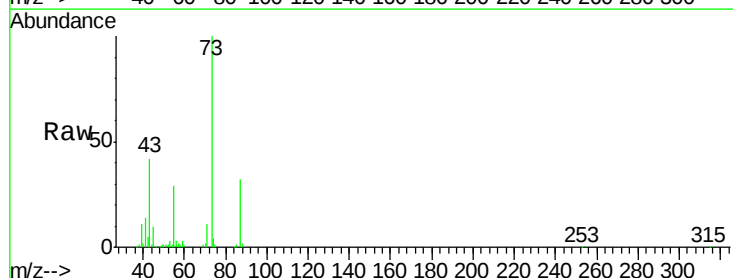
Tot Ion:152 Resp: 20411  
Ion Ratio Lower Upper  
152 100  
150 155.0 126.6 189.8  
115 53.6 53.0 79.4

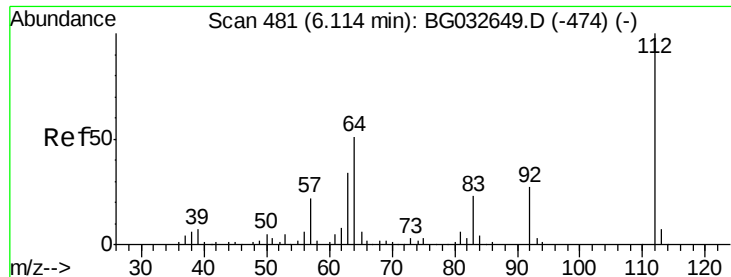


#2

1,4-Dioxane  
Concen: 4.67 ng  
RT: 3.43 min Scan# 23  
Delta R.T. -0.36 min  
Lab File: BG032725.D  
Acq: 15 Feb 2018 22:19

Tgt Ion: 88 Resp: 1987  
Ion Ratio Lower Upper  
88 100  
58 34.8 79.6 119.4#  
43 2197.0 27.4 41.0#





#5

2-Fluorophenol

Concen: 125.71 ng

RT: 6.08 min Scan# 474

Delta R.T. -0.04 min

Lab File: BG032725.D

Acq: 15 Feb 2018 22:19

Instrument :

BNA\_G

ClientSampleId :

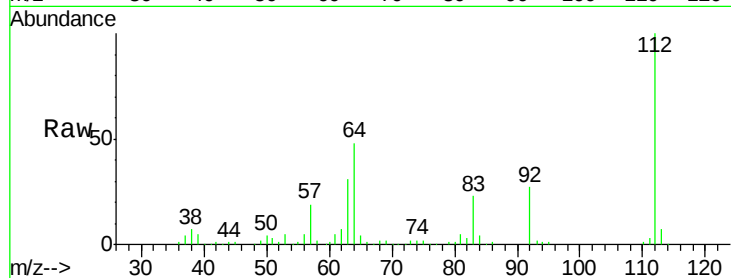
Tot Ion: 112 Resp: 127889

Ion Ratio Lower Upper

112 100

64 48.2 56.3 84.5#

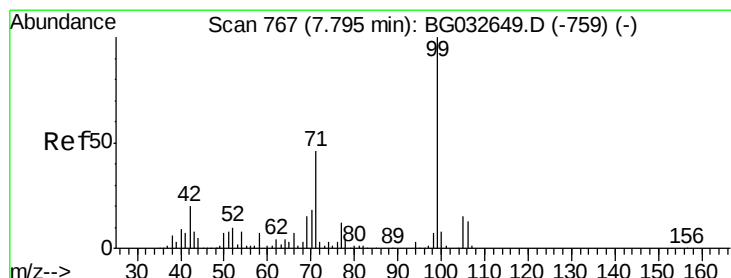
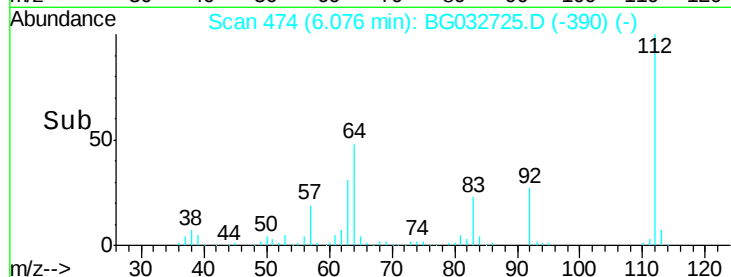
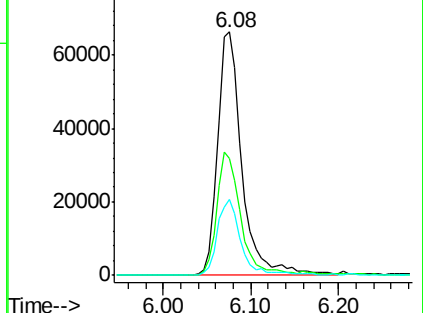
63 30.9 30.1 45.1



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: 98.25 ng

RT: 7.75 min Scan# 759

Delta R.T. -0.04 min

Lab File: BG032725.D

Acq: 15 Feb 2018 22:19

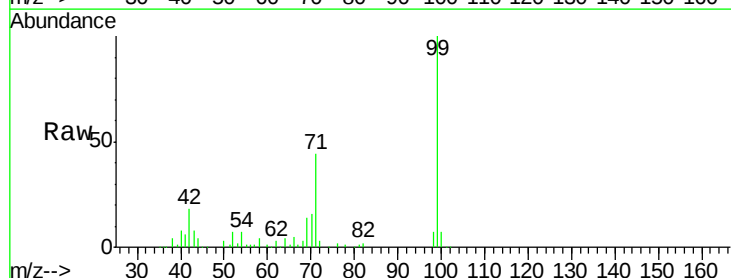
Tgt Ion: 99 Resp: 136675

Ion Ratio Lower Upper

99 100

42 17.7 14.1 21.1

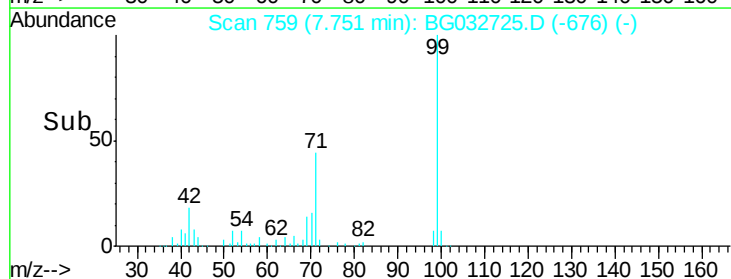
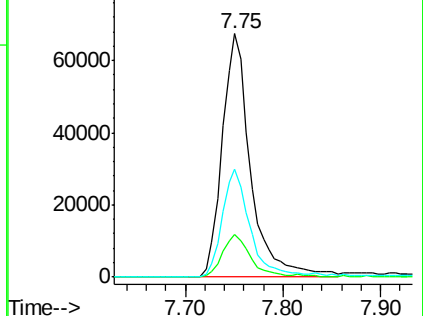
71 44.2 26.1 39.1#

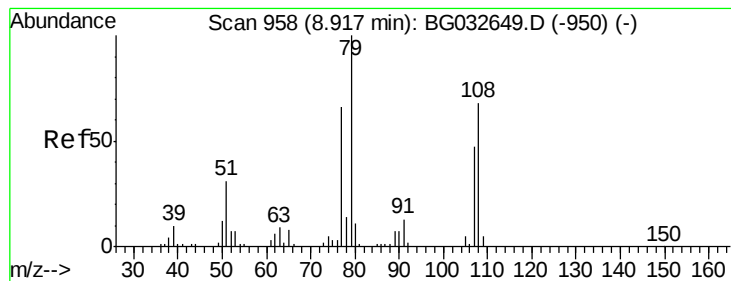


Abundance Ion 99.00 (98.70 to 99.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 71.00 (70.70 to 71.70): BGC





#15

Benzyl Alcohol

Concen: 2.25 ng

RT: 8.96 min Scan# 964

Delta R.T. 0.04 min

Lab File: BG032725.D

Acq: 15 Feb 2018 22:19

Instrument :

BNA\_G

ClientSampled :

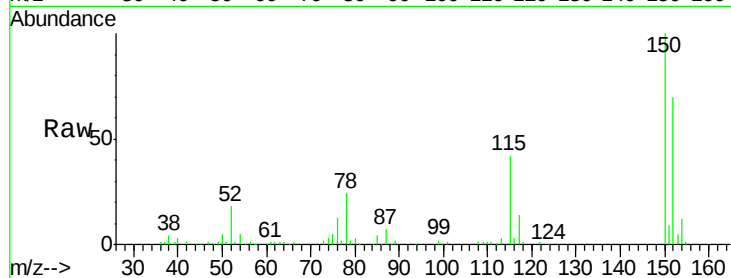
Tot Ion: 79 Resp: 2341

Ion Ratio Lower Upper

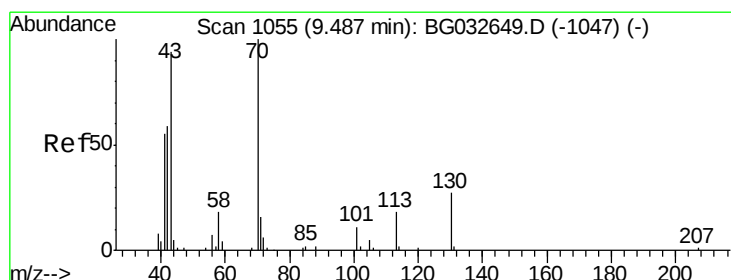
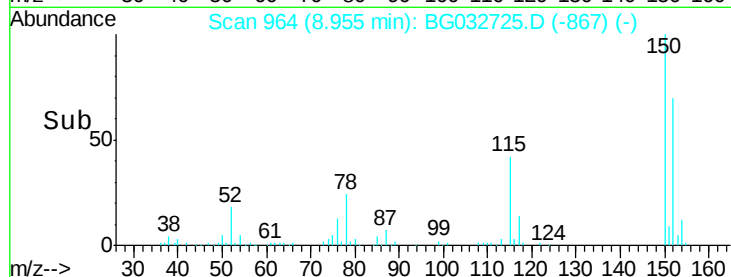
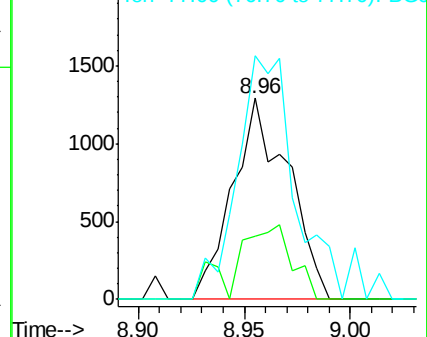
79 100

108 31.6 57.2 85.8#

77 121.1 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: 17.42 ng

RT: 9.82 min Scan# 1112

Delta R.T. 0.34 min

Lab File: BG032725.D

Acq: 15 Feb 2018 22:19

Tgt Ion: 70 Resp: 16295

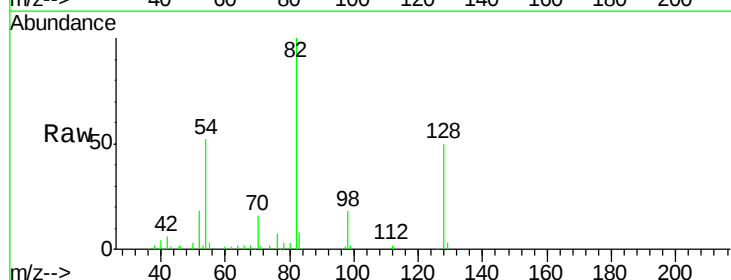
Ion Ratio Lower Upper

70 100

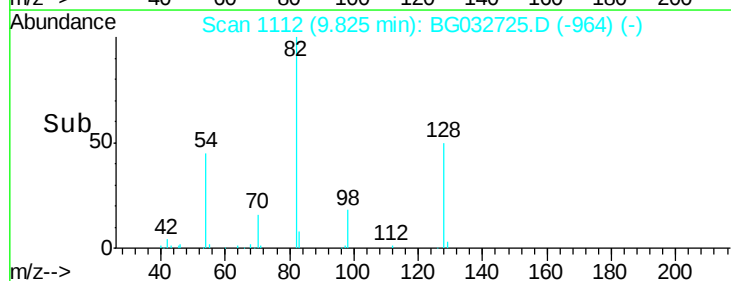
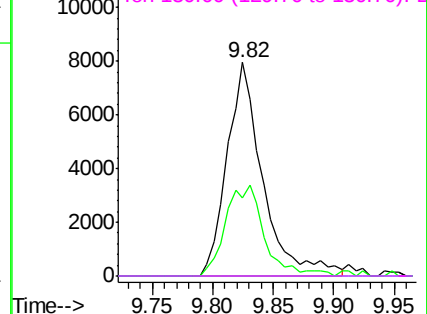
42 36.9 49.1 73.7#

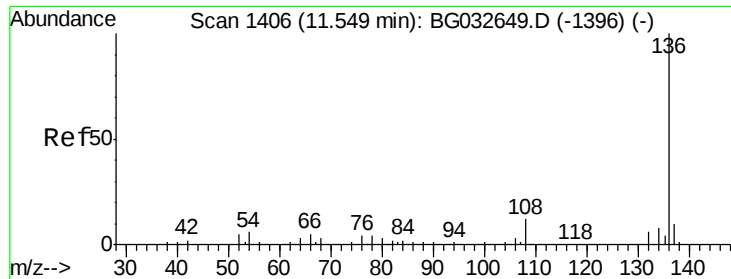
101 0.0 8.5 12.7#

130 0.0 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

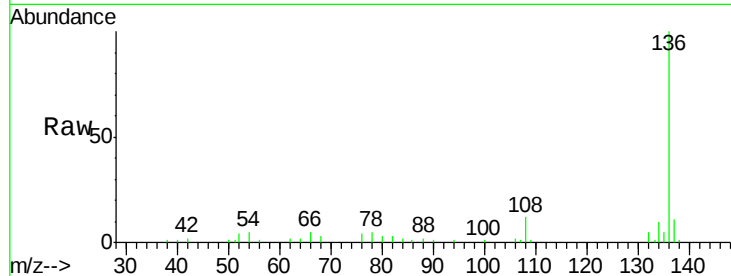




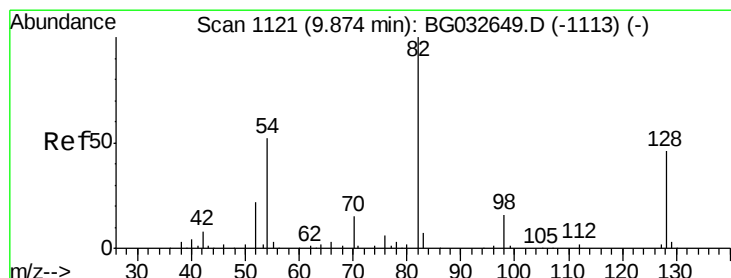
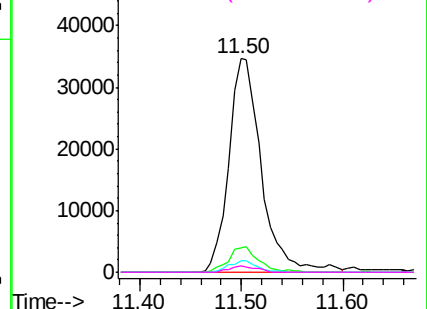
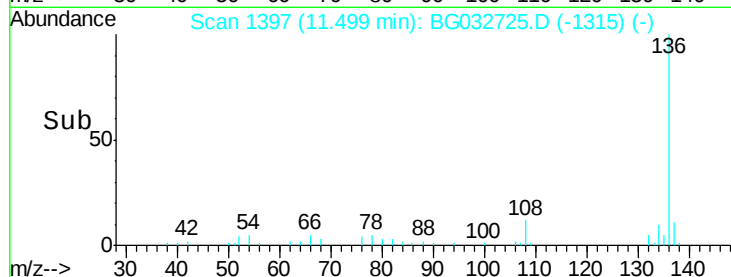
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 11.50 min Scan# 1397  
Delta R.T. -0.05 min  
Lab File: BG032725.D  
Acq: 15 Feb 2018 22:19

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:136 Resp: 77219  
Ion Ratio Lower Upper  
136 100  
137 11.3 9.2 13.8  
54 5.3 10.3 15.5#  
68 2.9 4.5 6.7#

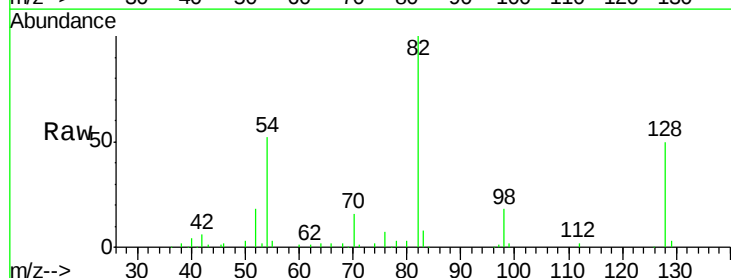


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

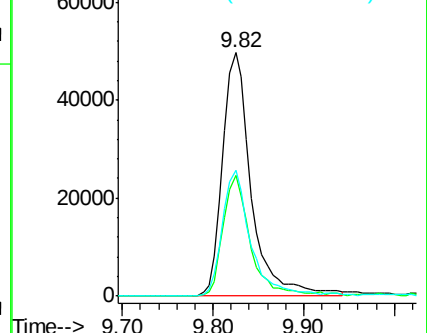
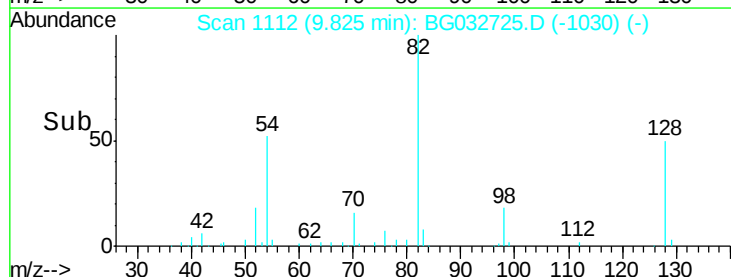


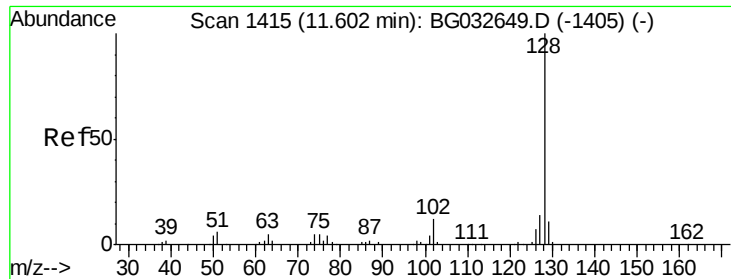
#23  
Nitrobenzene-d5  
Concen: 90.15 ng  
RT: 9.82 min Scan# 1112  
Delta R.T. -0.05 min  
Lab File: BG032725.D  
Acq: 15 Feb 2018 22:19

Tgt Ion: 82 Resp: 109535  
Ion Ratio Lower Upper  
82 100  
128 49.7 29.7 44.5#  
54 51.5 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

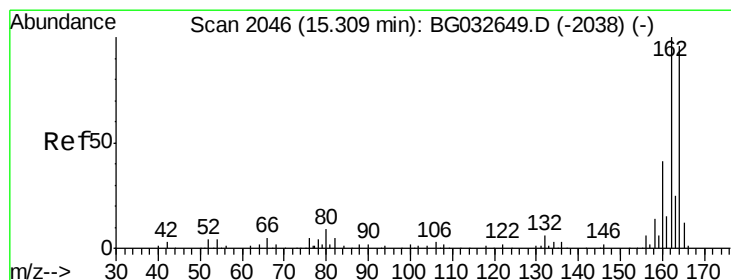
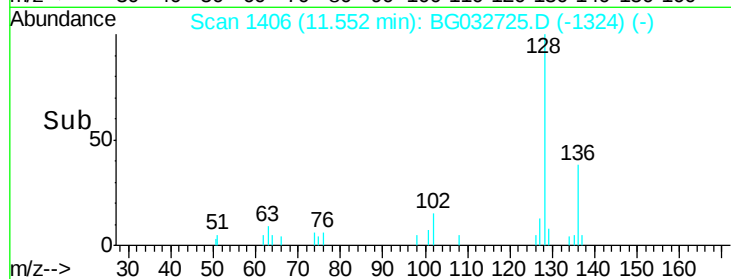
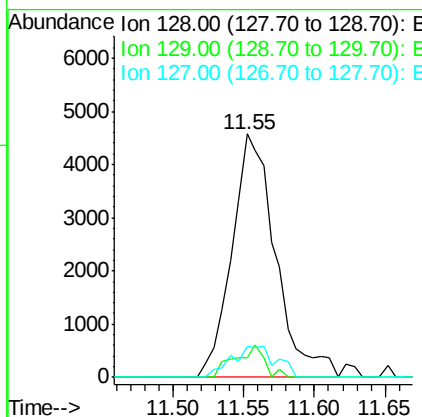
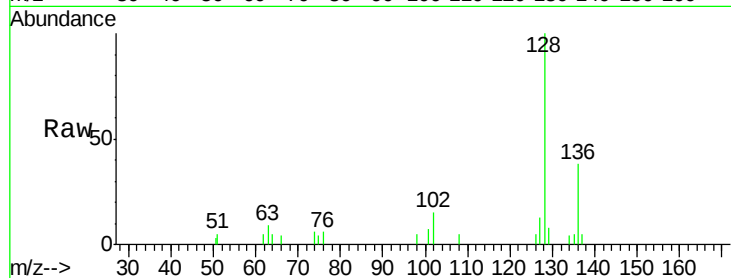




#31  
Naphthalene  
Concen: 2.63 ng  
RT: 11.55 min Scan# 1406  
Delta R.T. -0.05 min  
Lab File: BG032725.D  
Acq: 15 Feb 2018 22:19

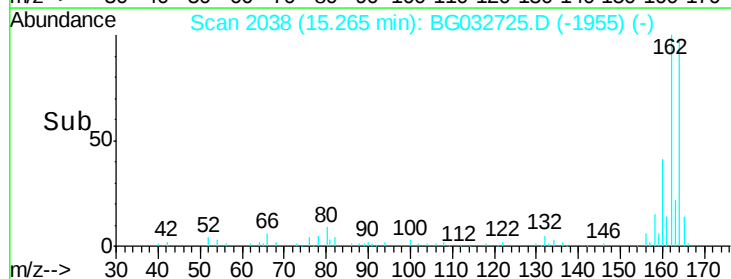
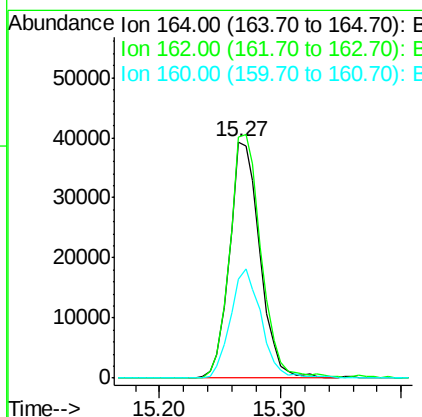
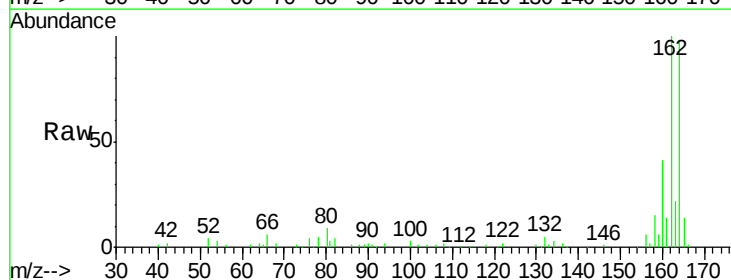
Instrument :  
BNA\_G  
ClientSampleId :

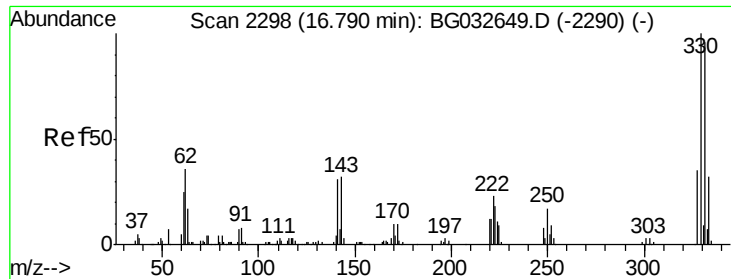
Tot Ion:128 Resp: 9866  
Ion Ratio Lower Upper  
128 100  
129 8.1 8.6 12.8#  
127 12.7 11.6 17.4



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 15.27 min Scan# 2038  
Delta R.T. -0.04 min  
Lab File: BG032725.D  
Acq: 15 Feb 2018 22:19

Tgt Ion:164 Resp: 68705  
Ion Ratio Lower Upper  
164 100  
162 101.9 78.8 118.2  
160 42.0 35.4 53.0

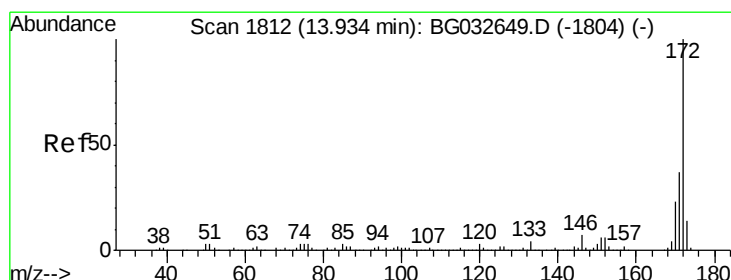
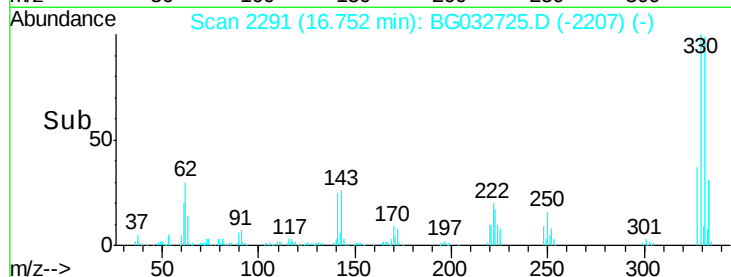
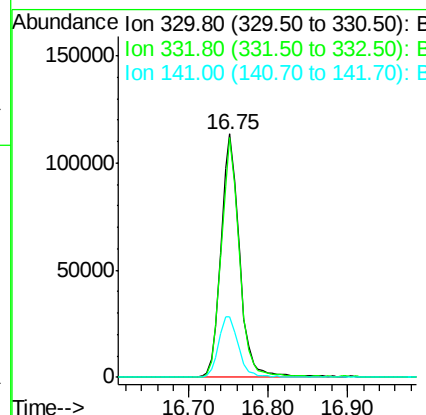
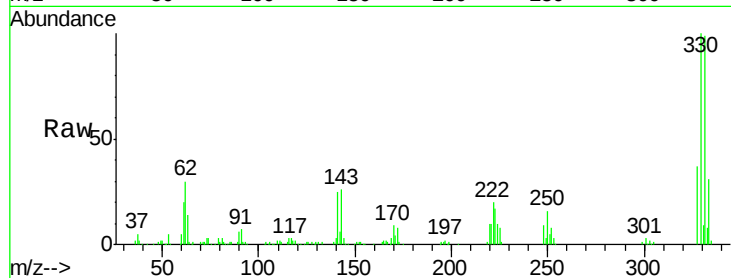




#41  
 2,4,6-Tribromophenol  
 Concen: 174.56 ng  
 RT: 16.75 min Scan# 2291  
 Delta R.T. -0.04 min  
 Lab File: BG032725.D  
 Acq: 15 Feb 2018 22:19

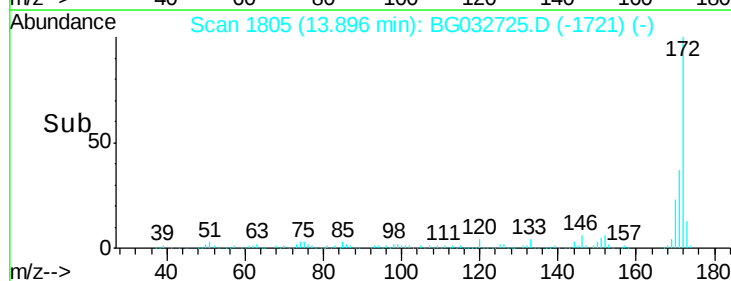
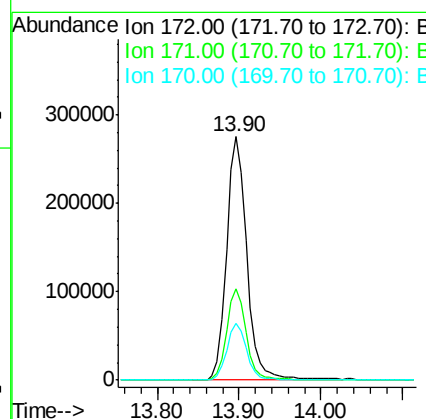
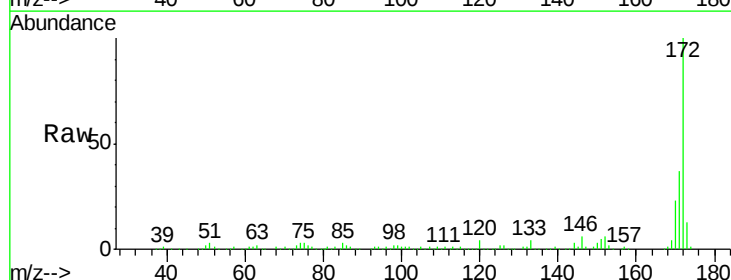
Instrument :  
 BNA\_G  
 ClientSampleId :

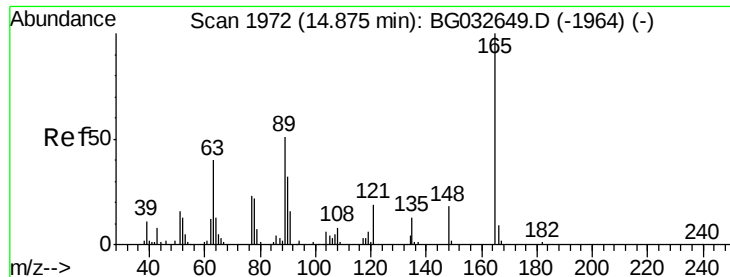
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.3  | 77.0  | 115.6 |
| 141     | 26.8  | 25.2  | 37.8  |



#44  
 2-Fluorobiphenyl  
 Concen: 86.38 ng  
 RT: 13.90 min Scan# 1805  
 Delta R.T. -0.04 min  
 Lab File: BG032725.D  
 Acq: 15 Feb 2018 22:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.3  | 30.0  | 45.0  |
| 170     | 23.1  | 19.5  | 29.3  |

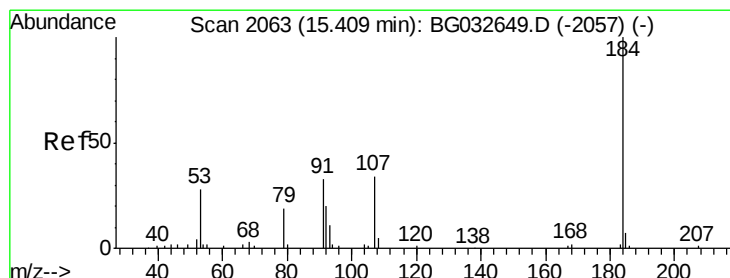
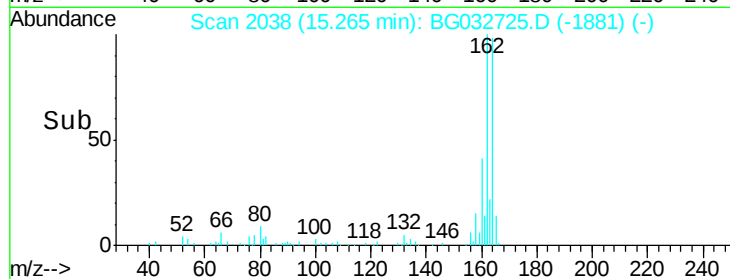
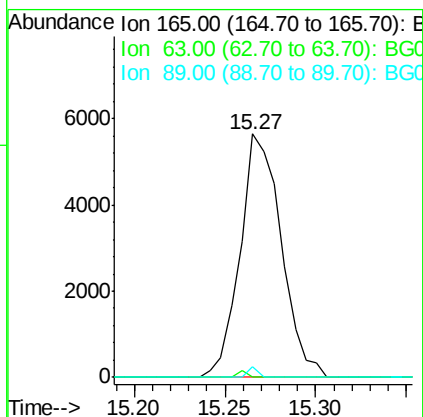
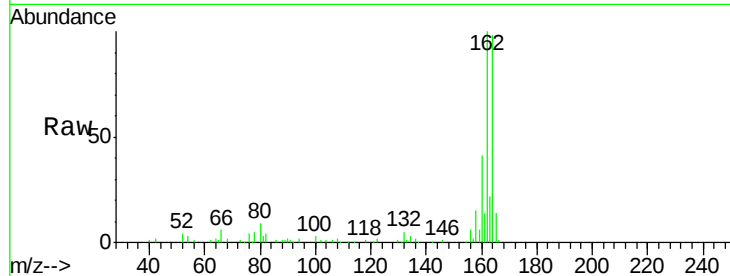




#50  
 2,6-Dinitrotoluene  
 Concen: 7.27 ng  
 RT: 15.27 min Scan# 2038  
 Delta R.T. 0.39 min  
 Lab File: BG032725.D  
 Acq: 15 Feb 2018 22:19

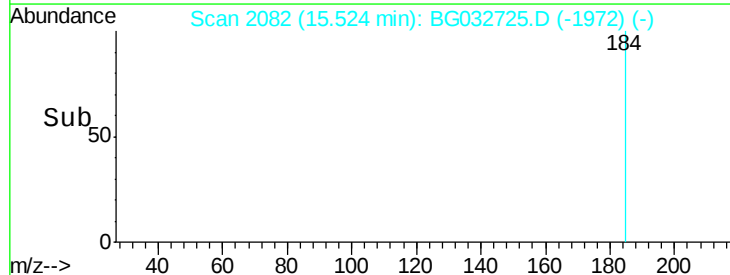
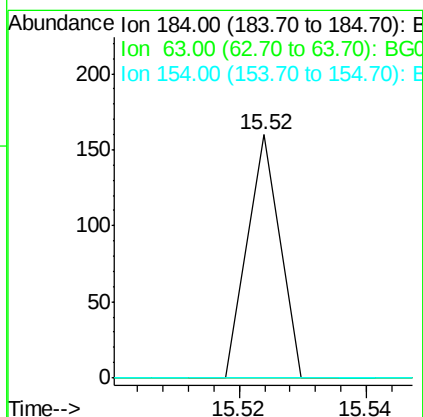
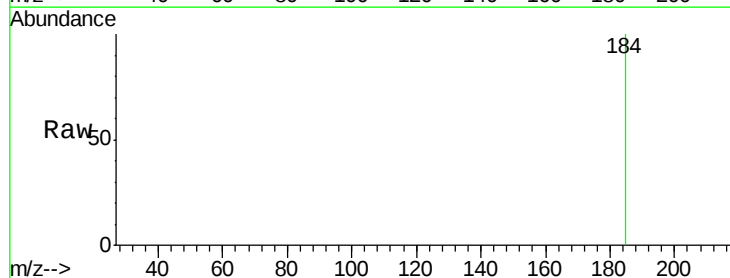
Instrument :  
 BNA\_G  
 ClientSampleId :

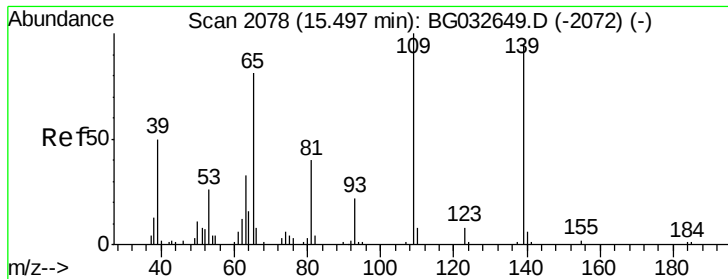
Tot Ion:165 Resp: 8890  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 52.7 79.1#  
 89 4.6 49.2 73.8#



#53  
 2,4-Dinitrophenol  
 Concen: 11.53 ng  
 RT: 15.52 min Scan# 2082  
 Delta R.T. 0.11 min  
 Lab File: BG032725.D  
 Acq: 15 Feb 2018 22:19

Tgt Ion:184 Resp: 56  
 Ion Ratio Lower Upper  
 184 100  
 63 0.0 59.8 89.8#  
 154 0.0 101.8 152.8#

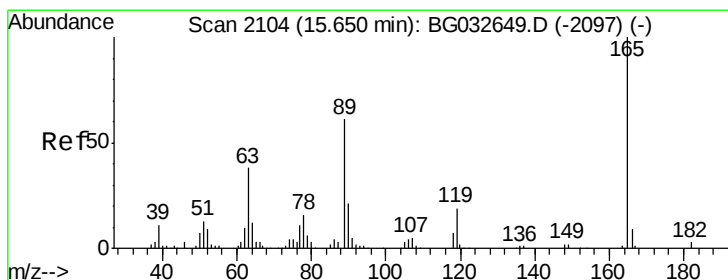
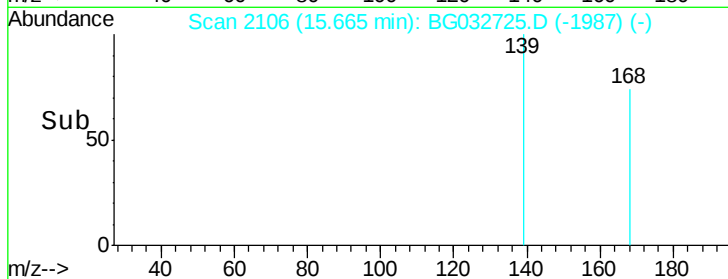
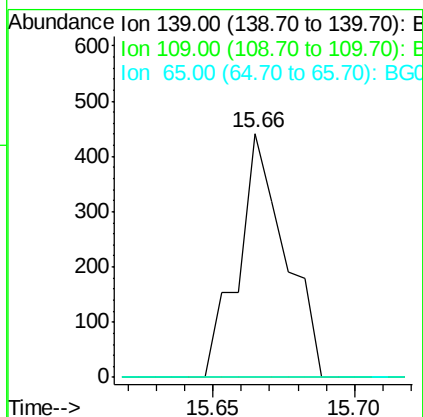
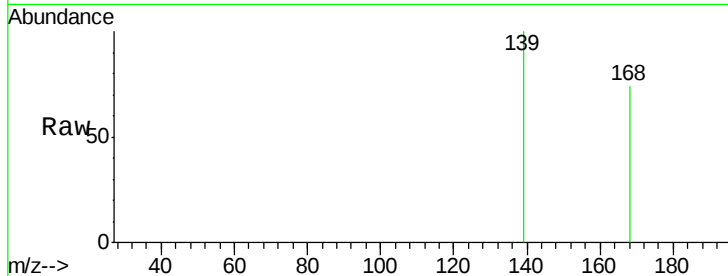




#55  
4-Nitrophenol  
Concen: 6.07 ng  
RT: 15.66 min Scan# 2106  
Delta R.T. 0.17 min  
Lab File: BG032725.D  
Acq: 15 Feb 2018 22:19

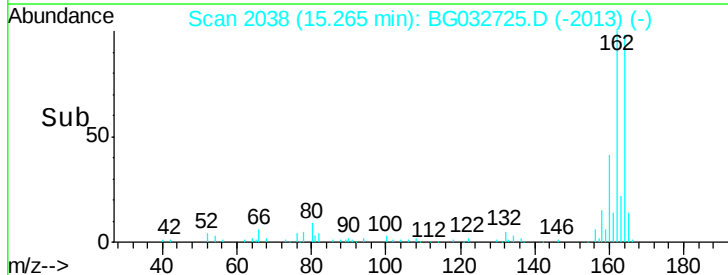
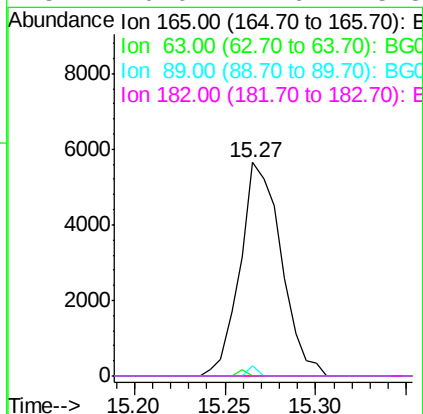
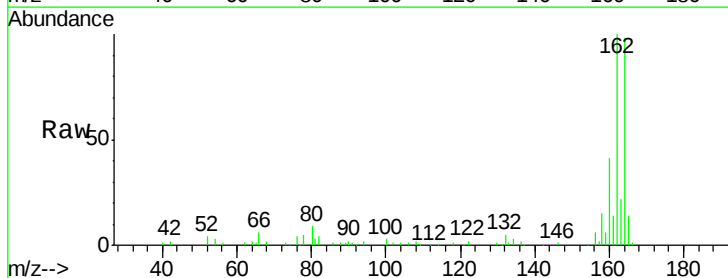
Instrument :  
BNA\_G  
ClientSampleId :

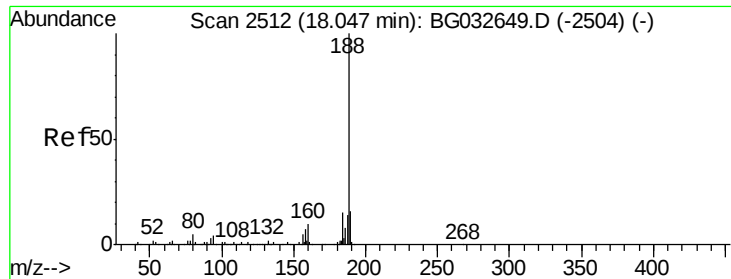
Tot Ion:139 Resp: 506  
Ion Ratio Lower Upper  
139 100  
109 0.0 62.2 102.2#  
65 0.0 97.2 137.2#



#56  
2,4-Dinitrotoluene  
Concen: 5.28 ng  
RT: 15.27 min Scan# 2038  
Delta R.T. -0.38 min  
Lab File: BG032725.D  
Acq: 15 Feb 2018 22:19

Tgt Ion:165 Resp: 8890  
Ion Ratio Lower Upper  
165 100  
63 0.0 42.0 63.0#  
89 4.6 66.9 100.3#  
182 0.0 2.6 3.8#

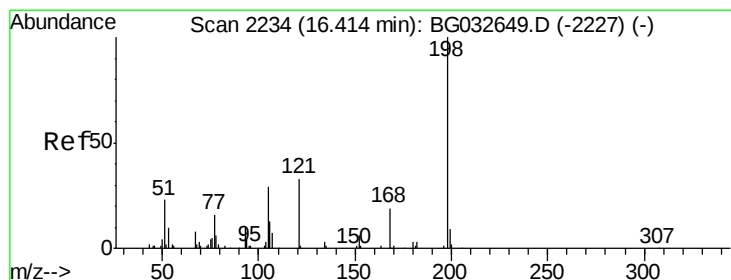
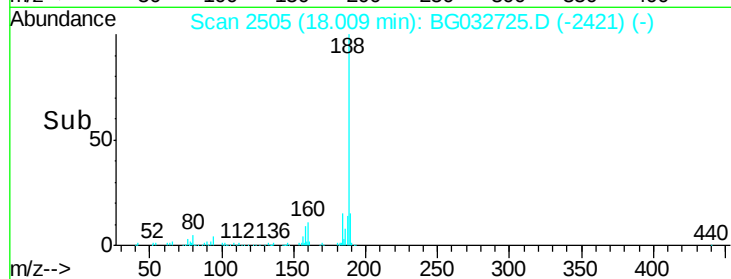
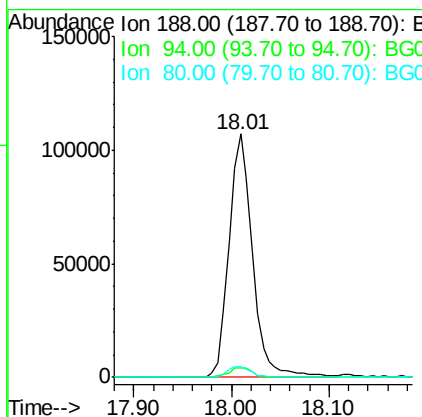
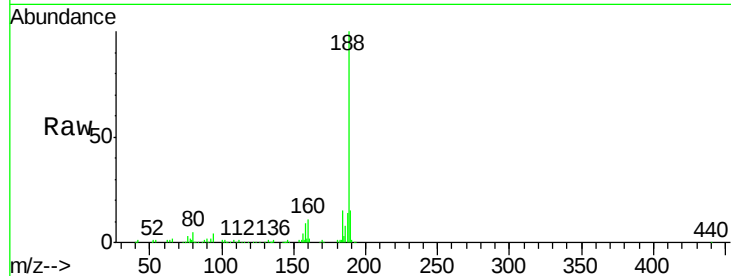




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 18.01 min Scan# 2505  
Delta R.T. -0.04 min  
Lab File: BG032725.D  
Acq: 15 Feb 2018 22:19

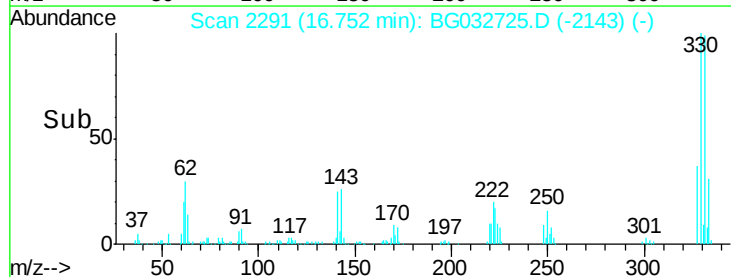
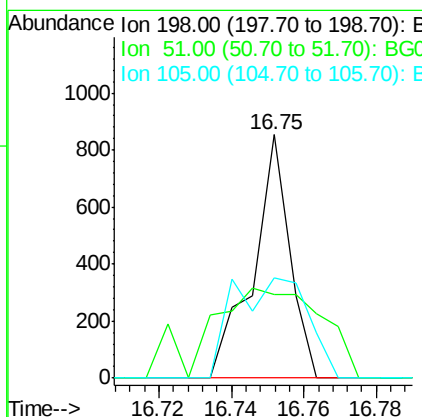
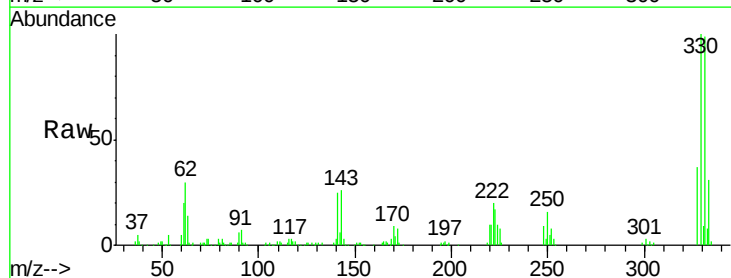
Instrument :  
BNA\_G  
ClientSampled :

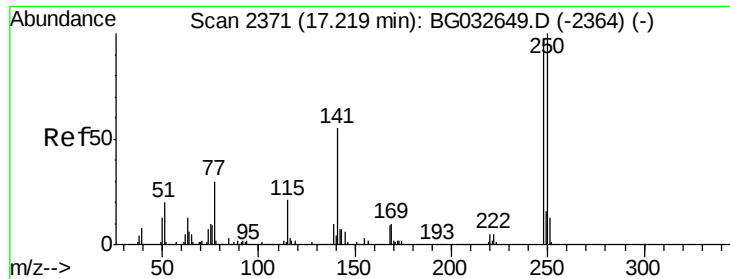
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 4.0   | 6.9   | 10.3# |
| 80      | 5.0   | 7.7   | 11.5# |



#64  
4,6-Dinitro-2-methylphenol  
Concen: 5.43 ng  
RT: 16.75 min Scan# 2291  
Delta R.T. 0.34 min  
Lab File: BG032725.D  
Acq: 15 Feb 2018 22:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 198     | 100   |       |       |
| 51      | 34.1  | 30.6  | 70.6  |
| 105     | 41.2  | 23.8  | 63.8  |

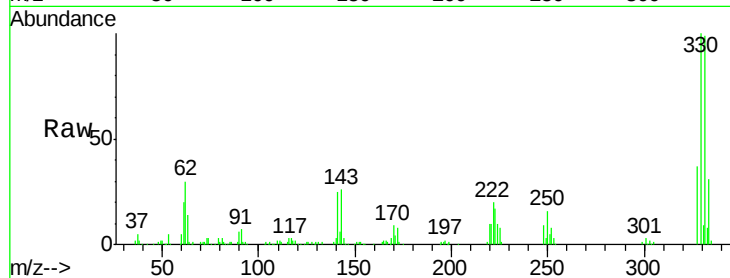




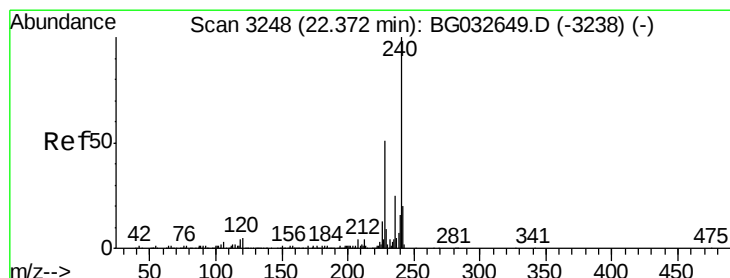
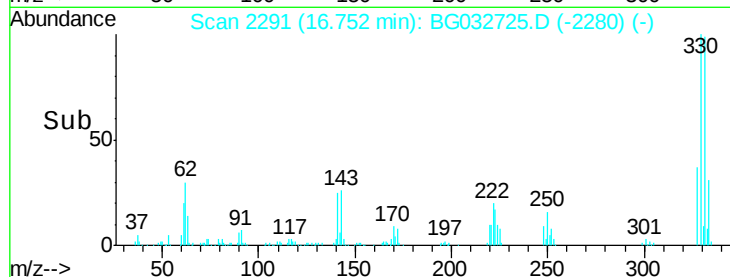
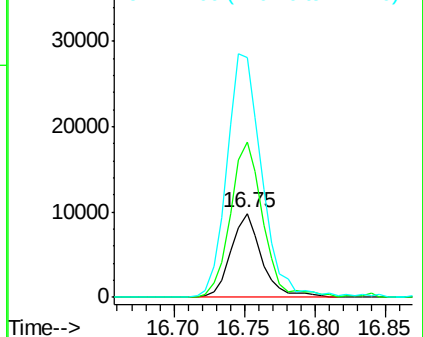
#66  
 4-Bromophenyl-phenylether  
 Concen: 5.80 ng  
 RT: 16.75 min Scan# 2291  
 Delta R.T. -0.47 min  
 Lab File: BG032725.D  
 Acq: 15 Feb 2018 22:19

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:248 Resp: 14924  
 Ion Ratio Lower Upper  
 248 100  
 250 184.3 77.1 115.7#  
 141 283.9 50.8 76.2#

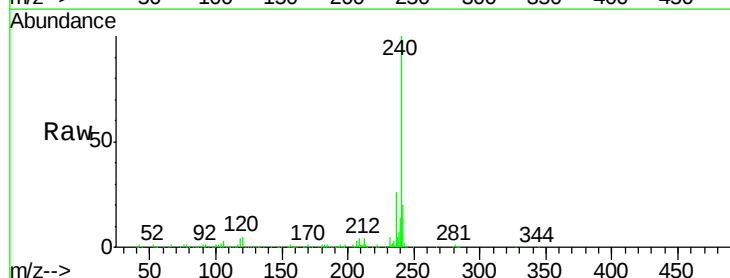


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

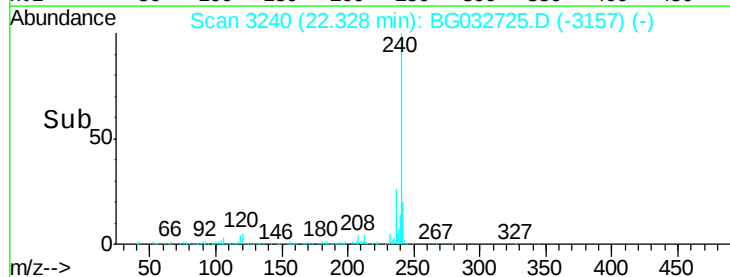
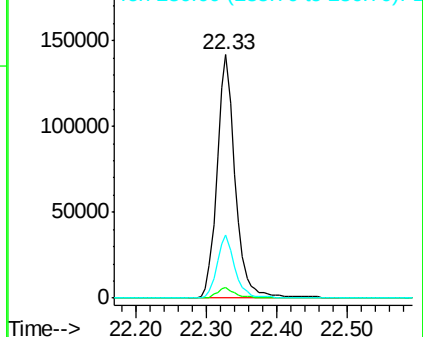


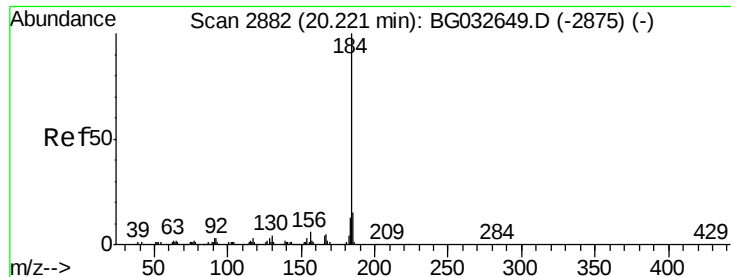
#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 22.33 min Scan# 3240  
 Delta R.T. -0.04 min  
 Lab File: BG032725.D  
 Acq: 15 Feb 2018 22:19

Tgt Ion:240 Resp: 252461  
 Ion Ratio Lower Upper  
 240 100  
 120 4.6 6.8 10.2#  
 236 26.1 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: 2.91 ng

RT: 20.56 min Scan# 2939

Delta R.T. 0.34 min

Lab File: BG032725.D

Acq: 15 Feb 2018 22:19

Instrument :

BNA\_G

ClientSampleId :

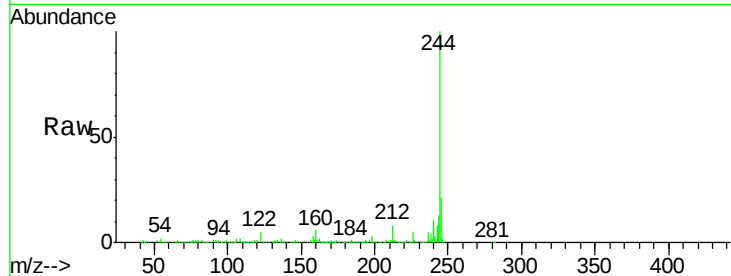
Tot Ion:184 Resp: 17277

Ion Ratio Lower Upper

184 100

185 20.0 11.1 16.7#

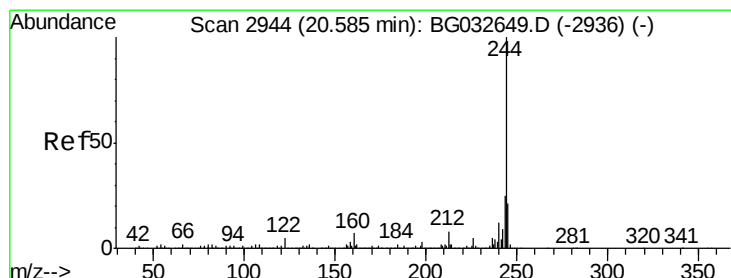
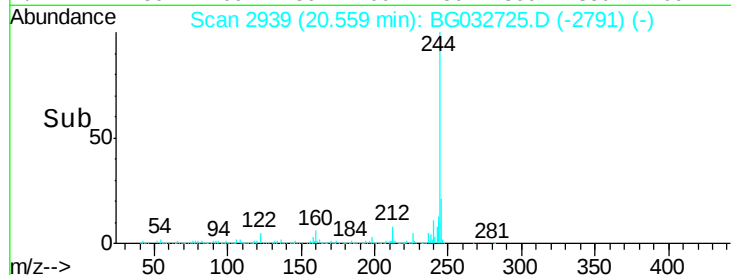
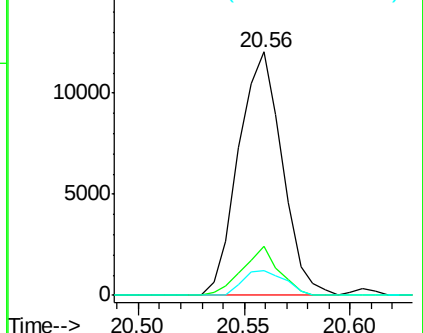
183 10.3 10.6 16.0#



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: 106.52 ng

RT: 20.56 min Scan# 2939

Delta R.T. -0.03 min

Lab File: BG032725.D

Acq: 15 Feb 2018 22:19

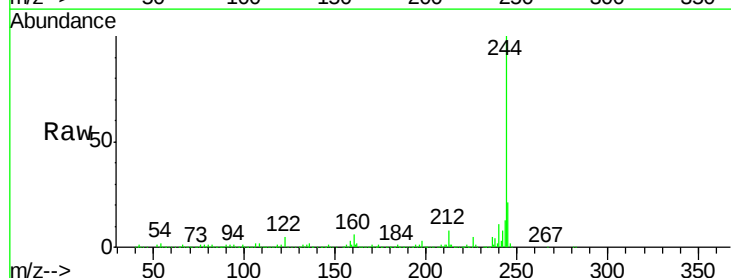
Tgt Ion:244 Resp: 1179835

Ion Ratio Lower Upper

244 100

212 7.5 5.8 8.8

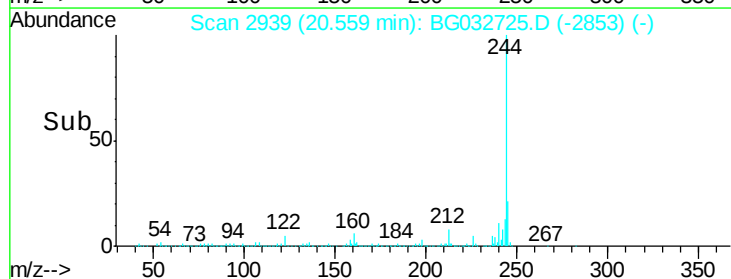
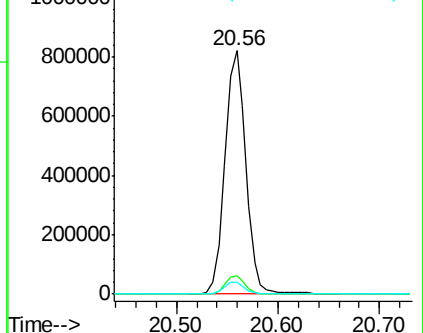
122 5.1 7.0 10.4#

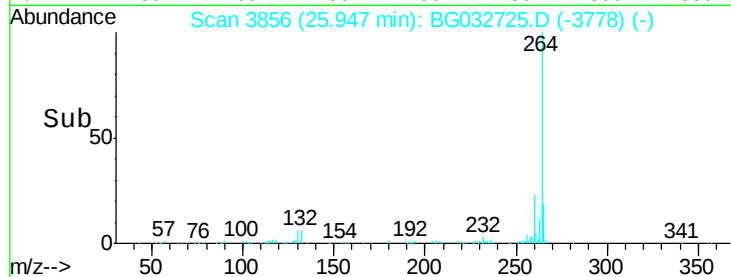
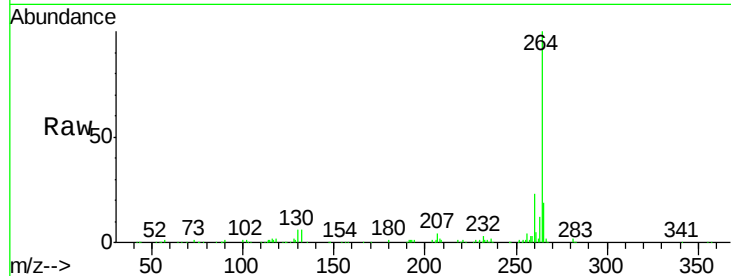
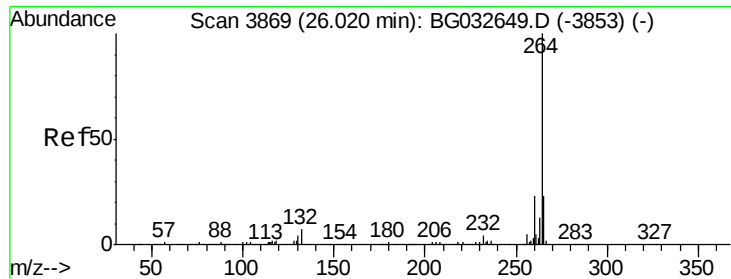


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86

Pervlene-d12

Concen: 20.00 ng

RT: 25.95 min Scan# 3856

Delta R.T. -0.07 min

Lab File: BG032725.D

Acq: 15 Feb 2018 22:19

Instrument :

BNA\_G

ClientSampleId :

Tot Ion:264 Resp: 274891

Ion Ratio Lower Upper

264 100

260 22.8 17.4 26.0

265 19.4 17.7 26.5

