

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG080320\  
 Data File : BG046158.D  
 Acq On : 3 Aug 2020 20:45  
 Operator : CG/JU  
 Sample : L3523-01  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 20200447-FIELD-BLANK

Quant Time: Aug 04 00:57:40 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG073020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jul 30 18:43:49 2020  
 Response via : Initial Calibration

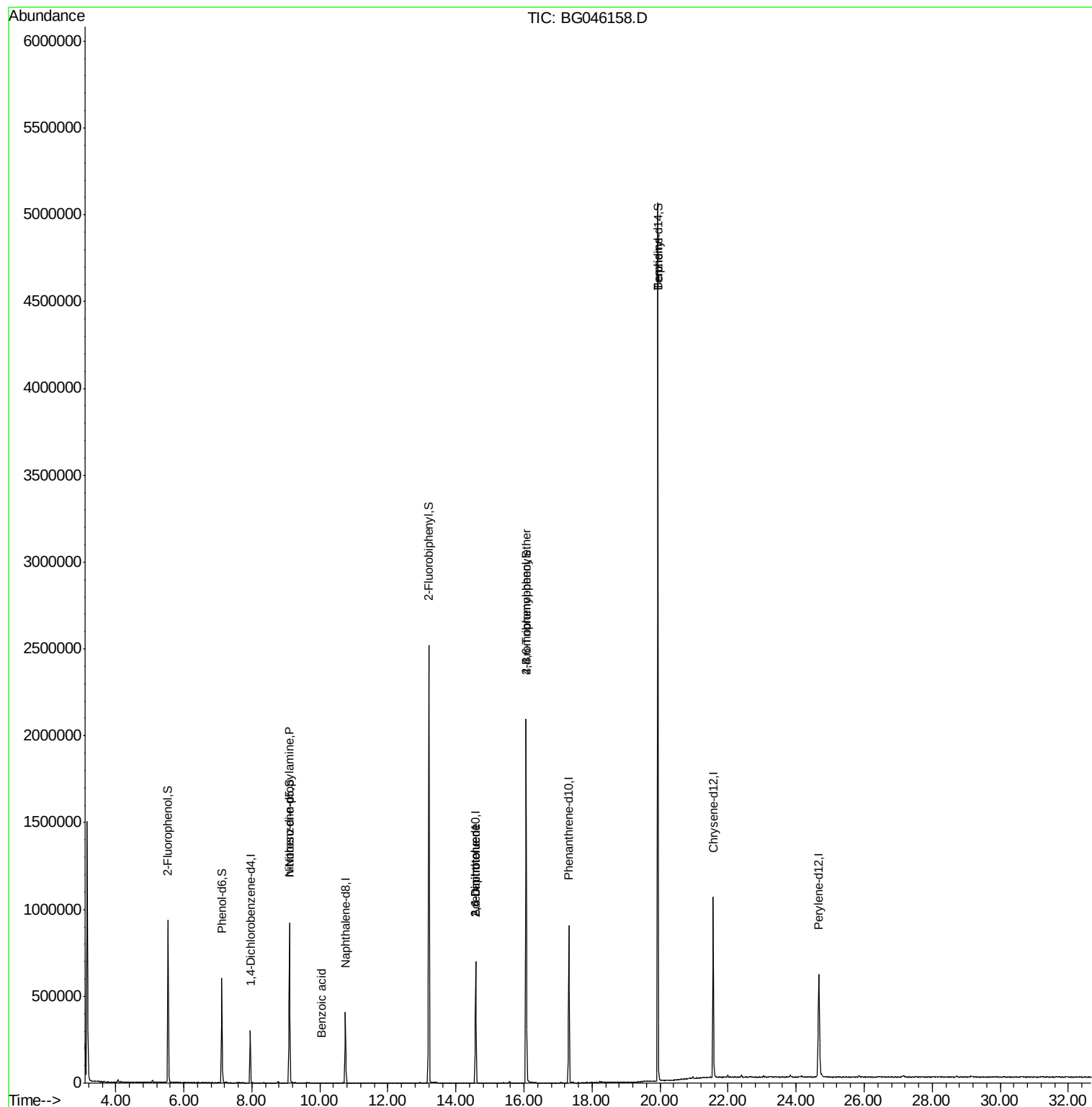
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.95  | 152  | 89111    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.75 | 136  | 358504   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.58 | 164  | 241927   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.32 | 188  | 572561   | 20.00  | ng    | -0.01    |
| 76) Chrysene-d12               | 21.56 | 240  | 639513   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 24.67 | 264  | 652838   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.53  | 112  | 411856   | 80.34  | ng    | 0.00     |
| 7) Phenol-d6                   | 7.12  | 99   | 351119   | 50.26  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.10  | 82   | 568352   | 85.83  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.06 | 330  | 433542   | 116.67 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.20 | 172  | 1335909  | 80.21  | ng    | 0.00     |
| 79) Terphenyl-d14              | 19.94 | 244  | 2142243  | 68.22  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.10  | 70   | 74001    | 16.276 | ng    | # 78     |
| 32) Benzoic acid               | 10.04 | 122  | 122      | 9.436  | ng    | # 1      |
| 51) 2,6-Dinitrotoluene         | 14.58 | 165  | 32611    | 7.546  | ng    | # 29     |
| 57) 2,4-Dinitrotoluene         | 14.58 | 165  | 32611    | 5.489  | ng    | # 29     |
| 67) 4-Bromophenyl-phenylether  | 16.06 | 248  | 27719    | 3.919  | ng    | # 1      |
| 77) Benzidine                  | 19.94 | 184  | 37646    | 2.078  | ng    | 96       |

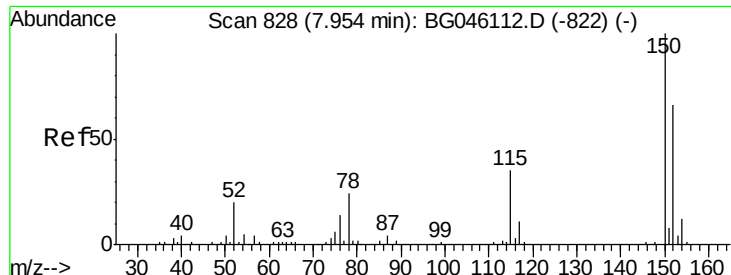
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
BNA\_G  
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20200447-FIELD-BLANK

Quant Time: Aug 04 00:57:40 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG073020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jul 30 18:43:49 2020  
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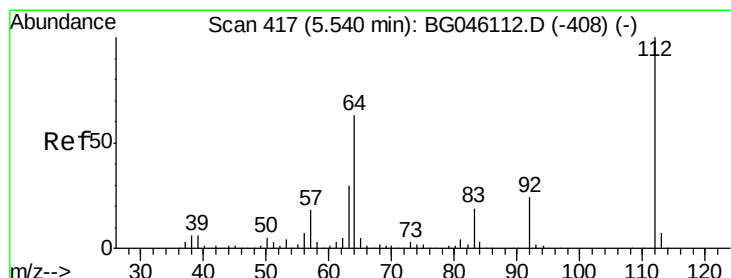
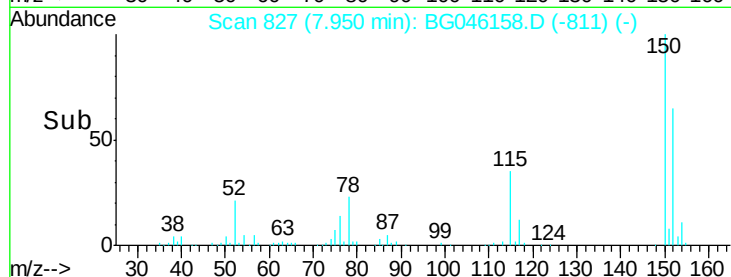
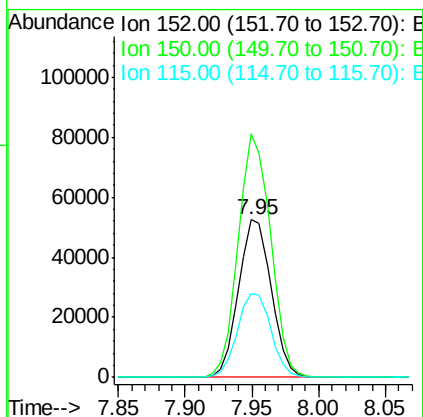
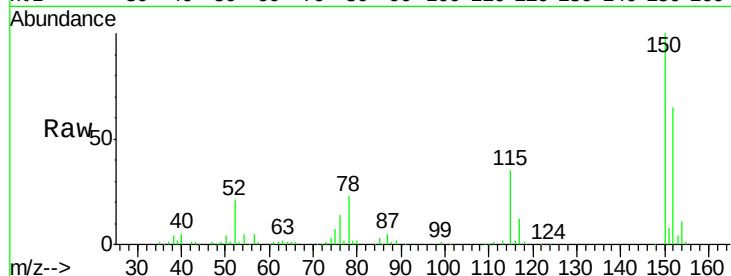


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.95 min Scan# 827  
Delta R.T. -0.00 min  
Lab File: BG046158.D  
Acq: 3 Aug 2020 20:45

Instrument :  
BNA\_G  
ClientSampleId :  
20200447-FIELD-BLANK

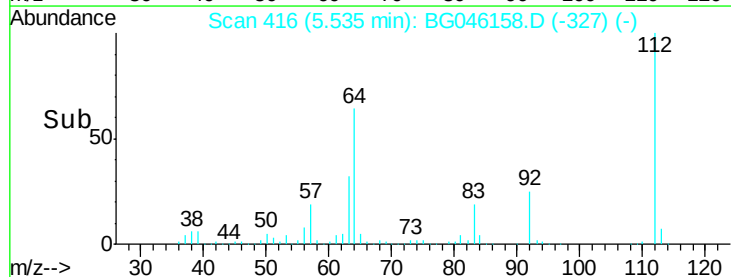
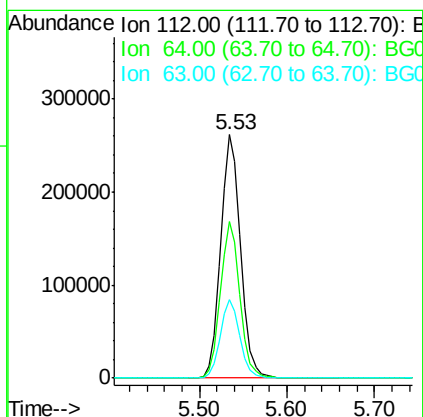
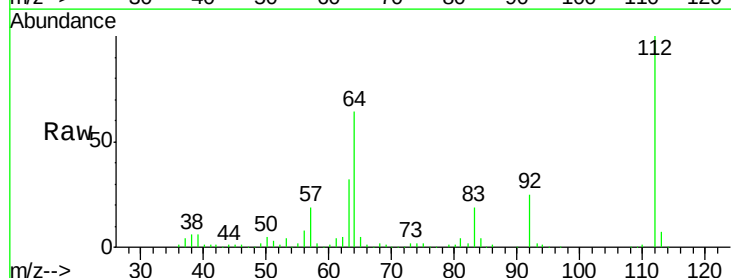
Tot Ion:152 Resp: 89111  
Ion Ratio Lower Upper  
152 100  
150 154.5 122.1 183.1  
115 53.4 43.2 64.8

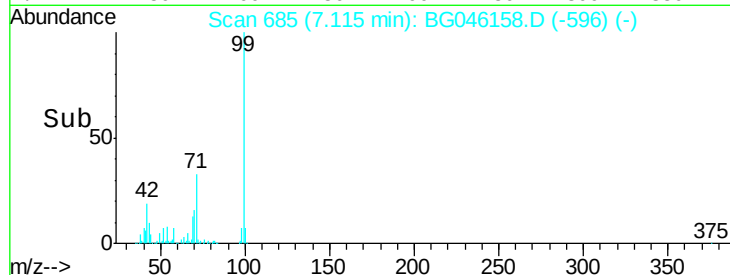
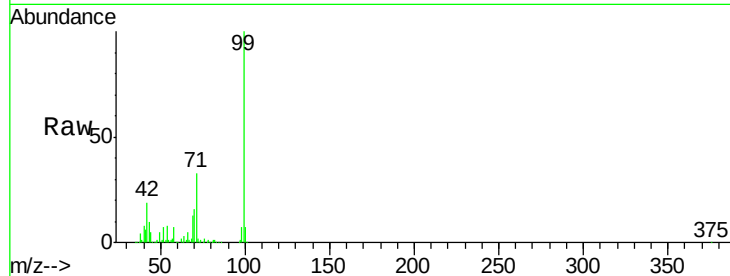
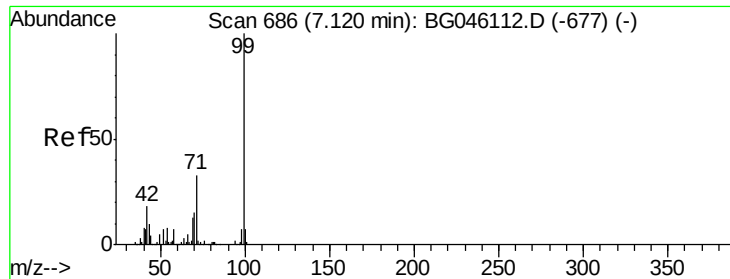


#5

2-Fluorophenol  
Concen: 80.345 ng  
RT: 5.53 min Scan# 416  
Delta R.T. -0.00 min  
Lab File: BG046158.D  
Acq: 3 Aug 2020 20:45

Tgt Ion:112 Resp: 411856  
Ion Ratio Lower Upper  
112 100  
64 64.1 50.2 75.2  
63 32.0 24.2 36.4





#7

Phenol-d6

Concen: 50.259 ng

RT: 7.12 min Scan# 685

Delta R.T. -0.00 min

Lab File: BG046158.D

Acq: 3 Aug 2020 20:45

Instrument :

BNA\_G

ClientSampleId :

20200447-FIELD-BLANK

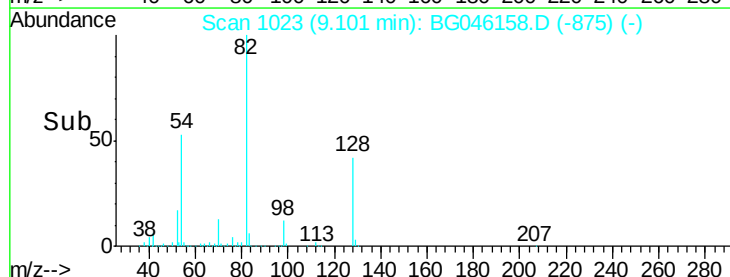
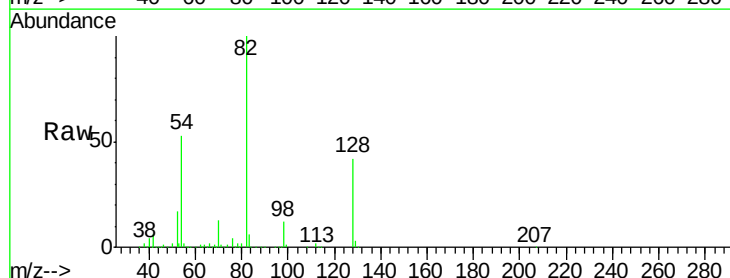
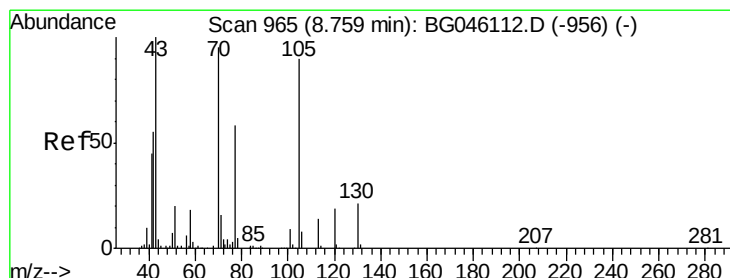
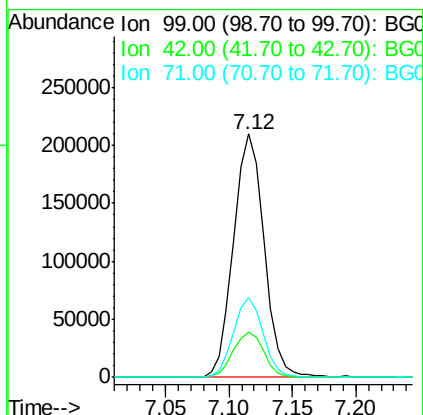
Tot Ion: 99 Resp: 351119

Ion Ratio Lower Upper

99 100

42 18.6 14.7 22.1

71 32.5 26.5 39.7



#19

n-Nitroso-di-n-propylamine

Concen: 16.276 ng

RT: 9.10 min Scan# 1023

Delta R.T. 0.34 min

Lab File: BG046158.D

Acq: 3 Aug 2020 20:45

Tgt Ion: 70 Resp: 74001

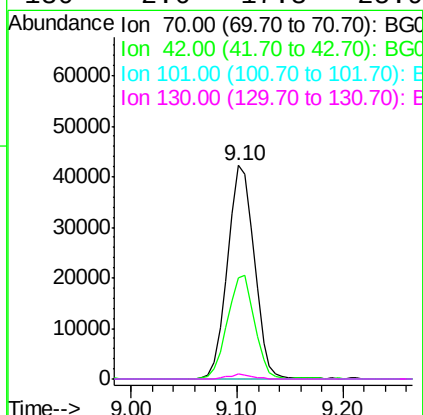
Ion Ratio Lower Upper

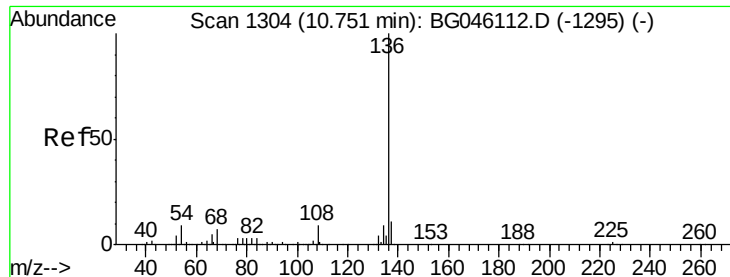
70 100

42 47.6 46.5 69.7

101 0.0 7.6 11.4#

130 2.6 17.3 25.9#

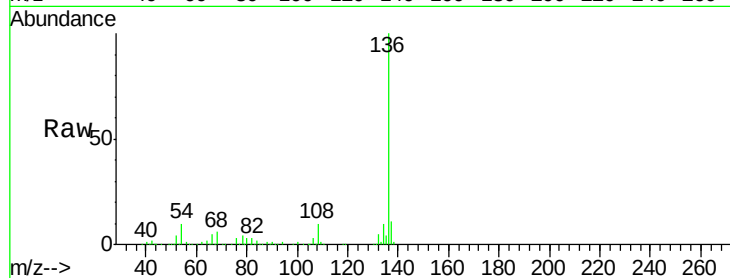




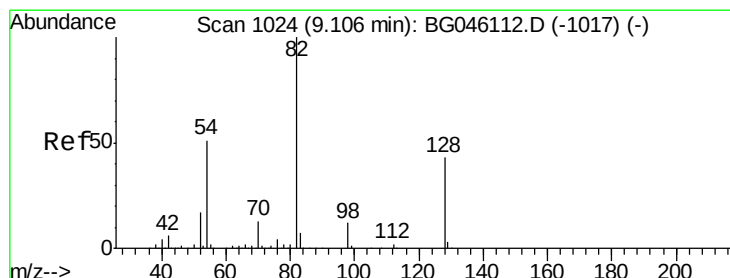
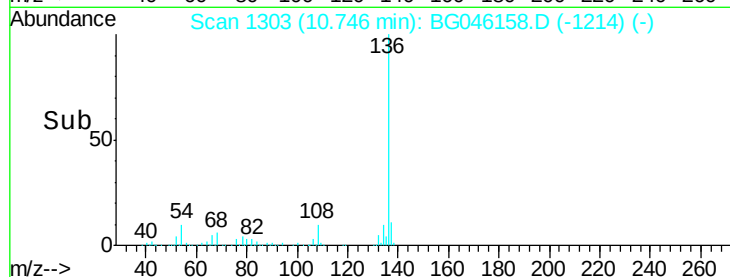
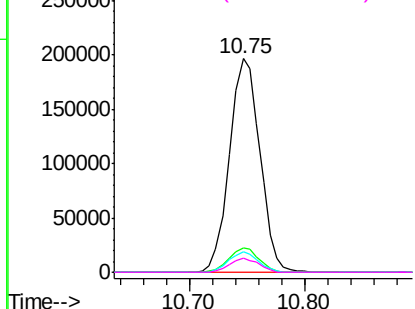
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.75 min Scan# 1303  
Delta R.T. -0.00 min  
Lab File: BG046158.D  
Acq: 3 Aug 2020 20:45

Instrument :  
BNA\_G  
ClientSampleId :  
20200447-FIELD-BLANK

|             |       |        |  |
|-------------|-------|--------|--|
| Tot Ion:136 | Resp: | 358504 |  |
| Ion Ratio   | Lower | Upper  |  |
| 136 100     |       |        |  |
| 137 11.4    | 8.8   | 13.2   |  |
| 54 9.6      | 7.0   | 10.4   |  |
| 68 6.4      | 5.3   | 7.9    |  |

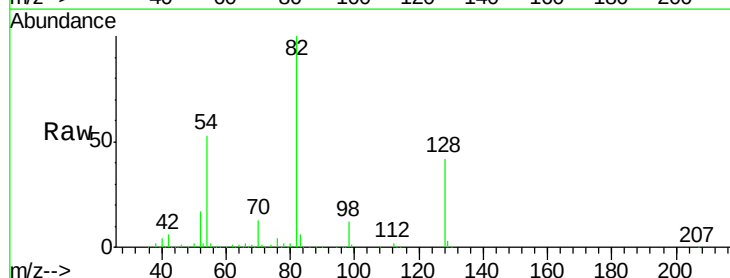


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

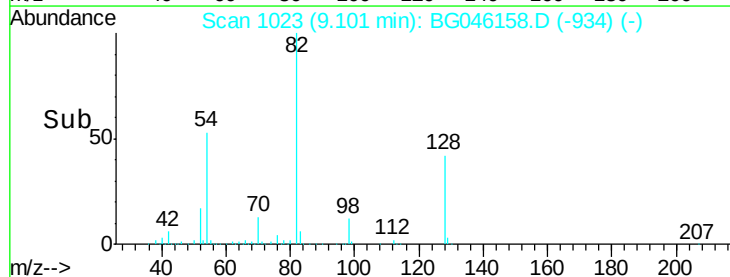
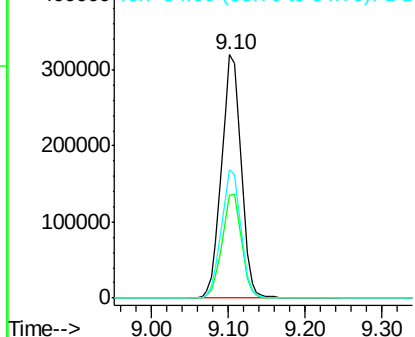


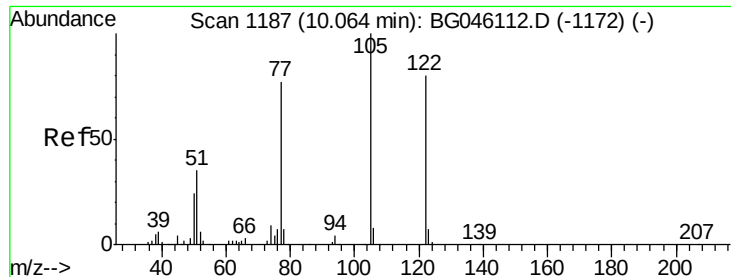
#23  
Nitrobenzene-d5  
Concen: 85.835 ng  
RT: 9.10 min Scan# 1023  
Delta R.T. -0.00 min  
Lab File: BG046158.D  
Acq: 3 Aug 2020 20:45

|             |              |
|-------------|--------------|
| Tgt Ion: 82 | Resp: 568352 |
| Ion Ratio   | Lower Upper  |
| 82 100      |              |
| 128 42.4    | 34.4 51.6    |
| 54 52.6     | 40.8 61.2    |



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





#32

Benzoic acid

Concen: 9.436 ng

RT: 10.04 min Scan# 1183

Delta R.T. -0.02 min

Lab File: BG046158.D

Acq: 3 Aug 2020 20:45

Instrument :

BNA\_G

ClientSampleId :

20200447-FIELD-BLANK

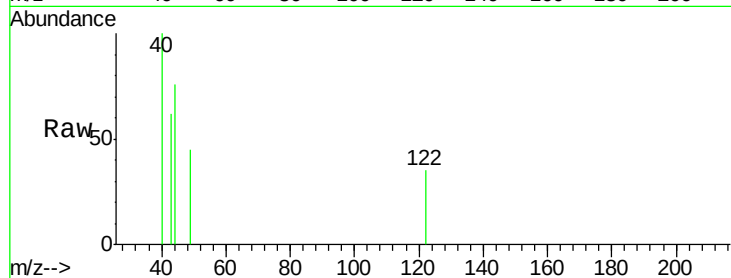
Tot Ion:122 Resp: 122

Ion Ratio Lower Upper

122 100

105 0.0 103.0 143.0#

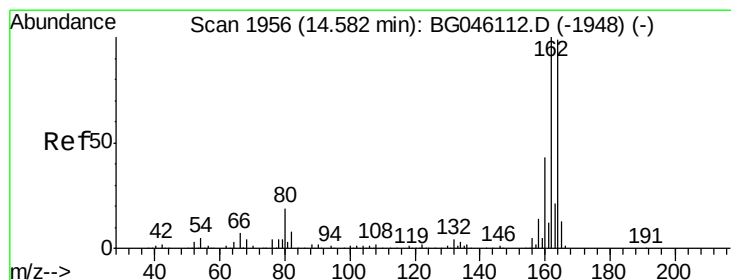
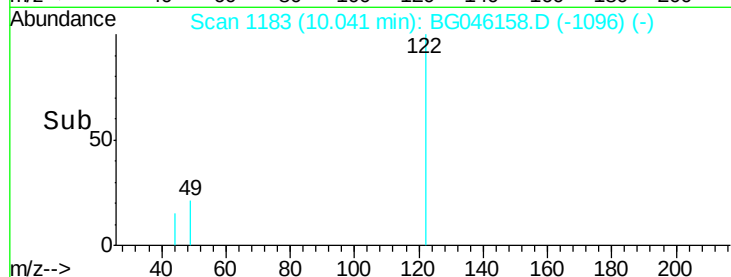
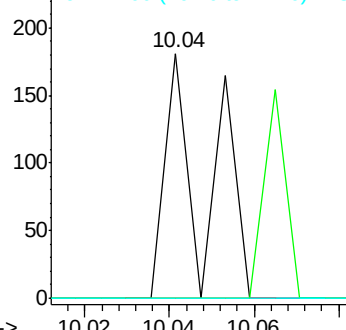
77 0.0 75.2 115.2#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BGC



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.58 min Scan# 1955

Delta R.T. -0.00 min

Lab File: BG046158.D

Acq: 3 Aug 2020 20:45

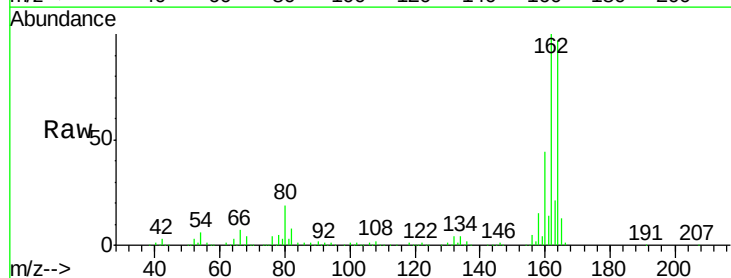
Tgt Ion:164 Resp: 241927

Ion Ratio Lower Upper

164 100

162 103.5 80.6 121.0

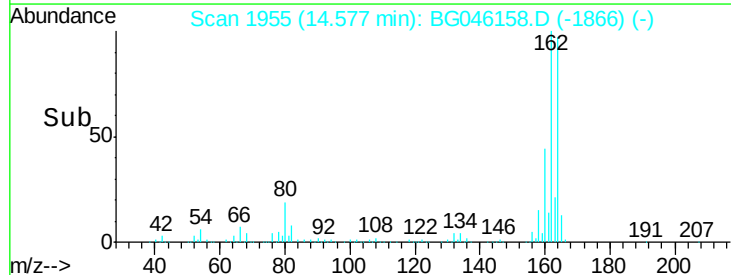
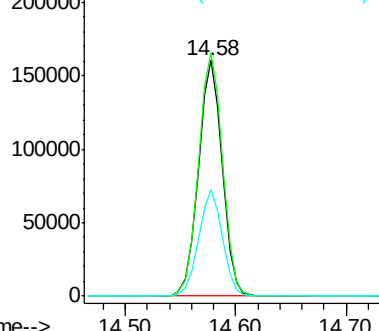
160 45.5 34.9 52.3

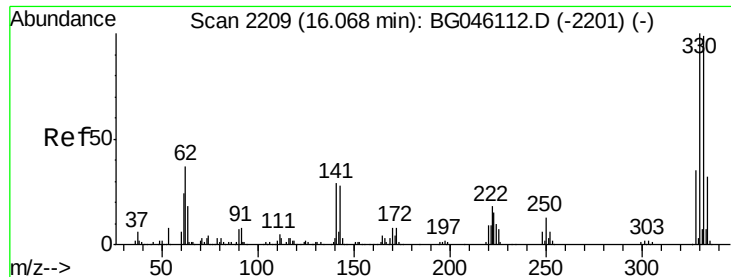


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 116.671 ng

RT: 16.06 min Scan# 2208

Delta R.T. -0.00 min

Lab File: BG046158.D

Acq: 3 Aug 2020 20:45

Instrument :

BNA\_G

ClientSampleId :

20200447-FIELD-BLANK

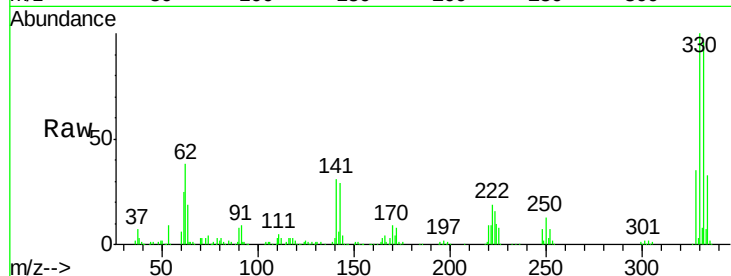
Tot Ion:330 Resp: 433542

Ion Ratio Lower Upper

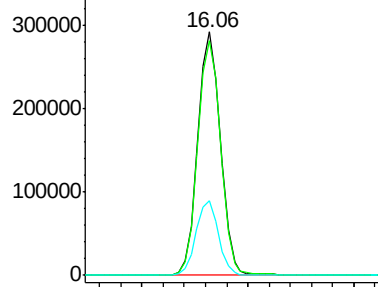
330 100

332 97.3 77.4 116.2

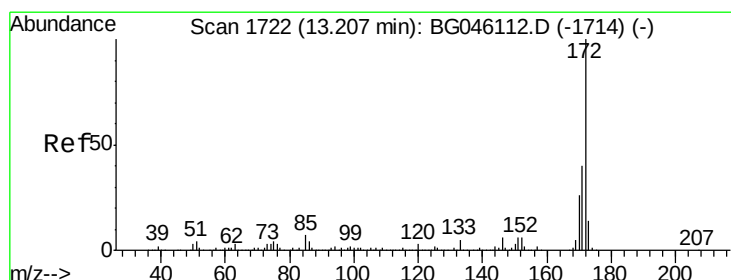
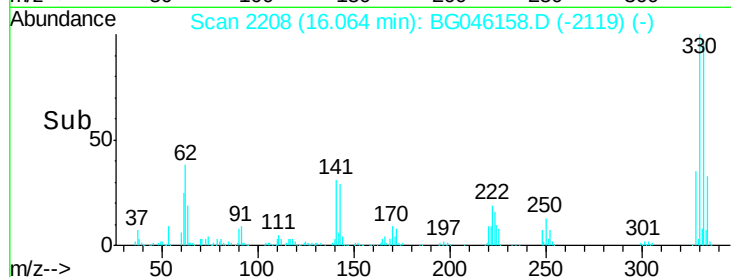
141 30.5 23.4 35.0



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



Time-->



#45

2-Fluorobiphenyl

Concen: 80.214 ng

RT: 13.20 min Scan# 1721

Delta R.T. -0.00 min

Lab File: BG046158.D

Acq: 3 Aug 2020 20:45

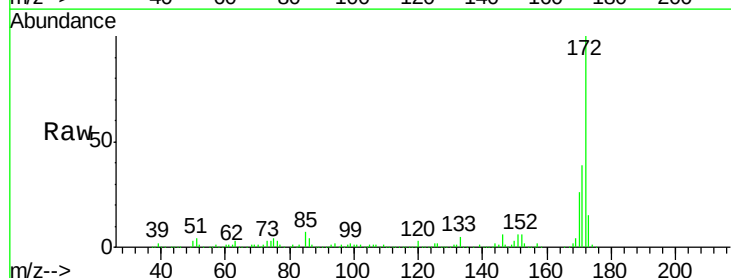
Tgt Ion:172 Resp: 1335909

Ion Ratio Lower Upper

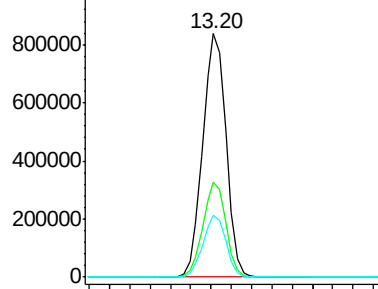
172 100

171 38.8 31.7 47.5

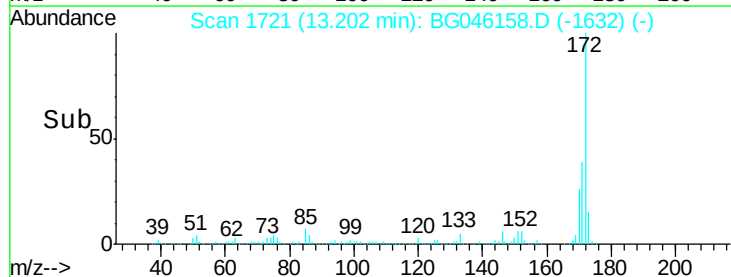
170 25.6 20.9 31.3

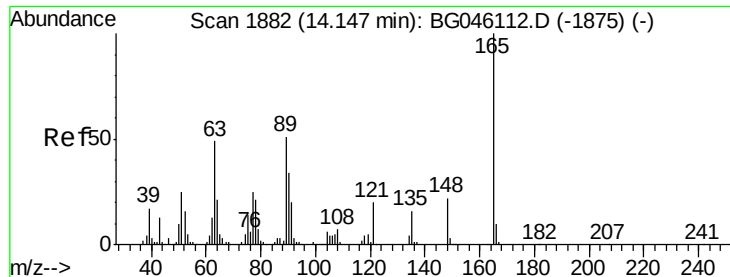


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E



Time-->

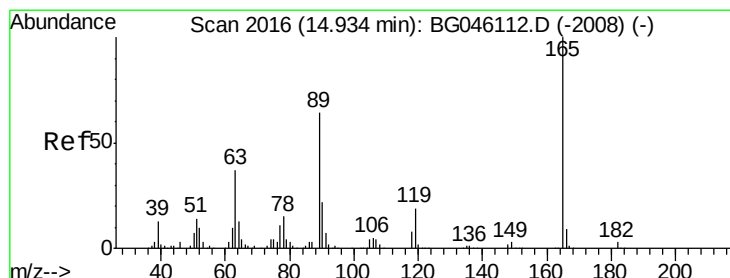
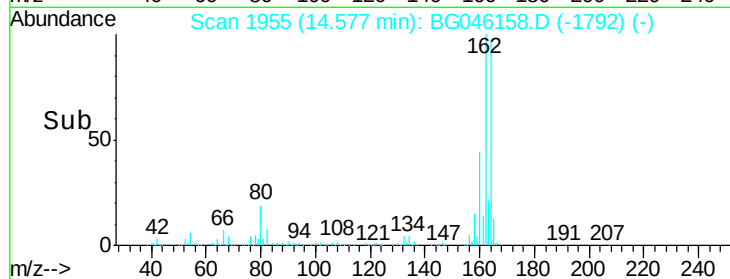
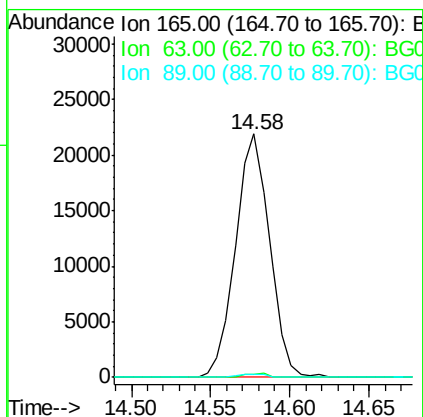
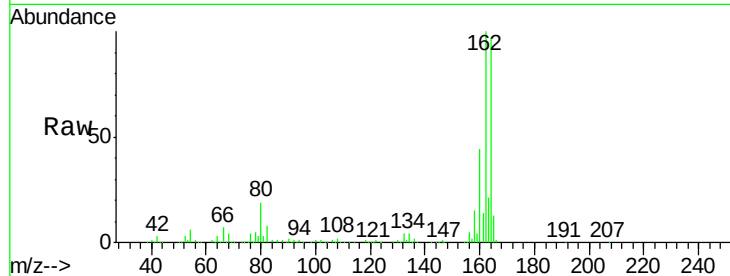




#51  
 2,6-Dinitrotoluene  
 Concen: 7.546 ng  
 RT: 14.58 min Scan# 1955  
 Delta R.T. 0.43 min  
 Lab File: BG046158.D  
 Acq: 3 Aug 2020 20:45

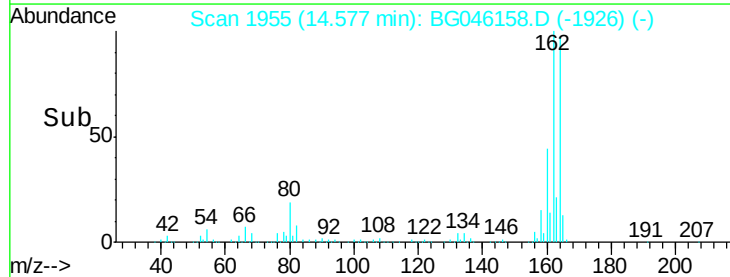
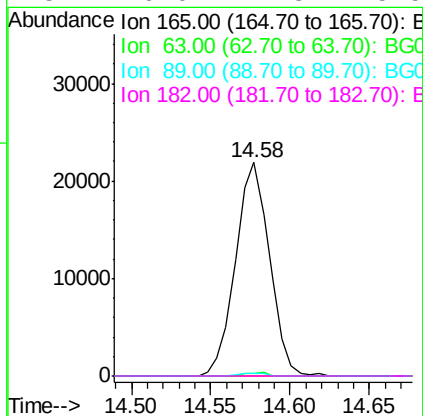
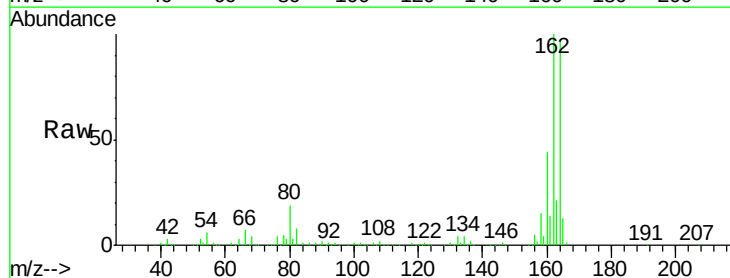
Instrument :  
 BNA\_G  
 ClientSampleId :  
 20200447-FIELD-BLANK

Tot Ion:165 Resp: 32611  
 Ion Ratio Lower Upper  
 165 100  
 63 1.2 39.7 59.5#  
 89 1.2 41.0 61.6#

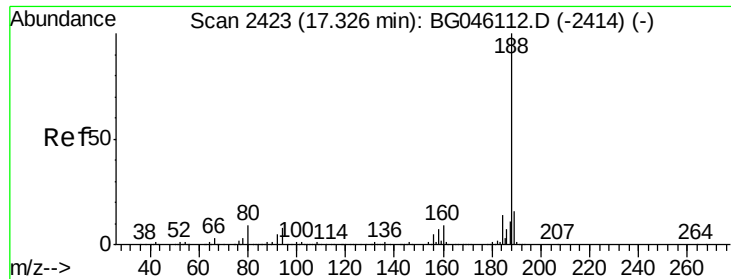


#57  
 2,4-Dinitrotoluene  
 Concen: 5.489 ng  
 RT: 14.58 min Scan# 1955  
 Delta R.T. -0.36 min  
 Lab File: BG046158.D  
 Acq: 3 Aug 2020 20:45

Tgt Ion:165 Resp: 32611  
 Ion Ratio Lower Upper  
 165 100  
 63 1.2 30.1 45.1#  
 89 1.2 51.4 77.2#  
 182 0.0 2.3 3.5#







#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.32 min Scan# 2421

Delta R.T. -0.01 min

Lab File: BG046158.D

Acq: 3 Aug 2020 20:45

Instrument :

BNA\_G

ClientSampleId :

20200447-FIELD-BLANK

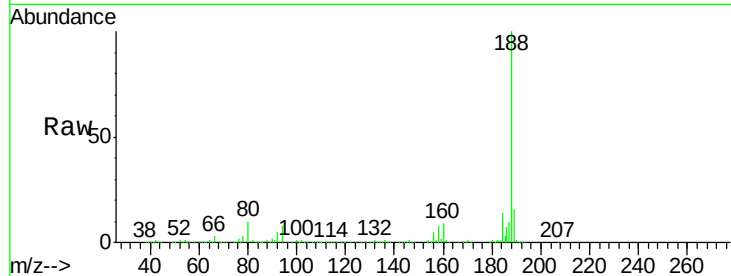
Tot Ion:188 Resp: 572561

Ion Ratio Lower Upper

188 100

94 8.3 6.4 9.6

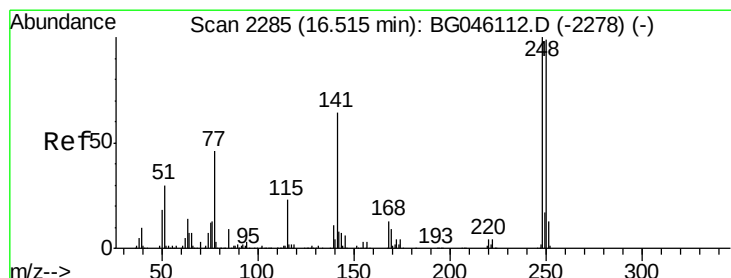
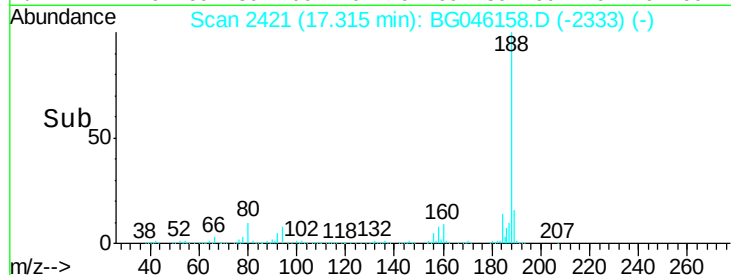
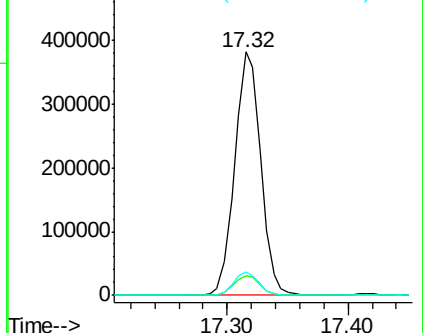
80 9.8 7.4 11.0



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



#67

4-Bromophenyl-phenylether

Concen: 3.919 ng

RT: 16.06 min Scan# 2208

Delta R.T. -0.45 min

Lab File: BG046158.D

Acq: 3 Aug 2020 20:45

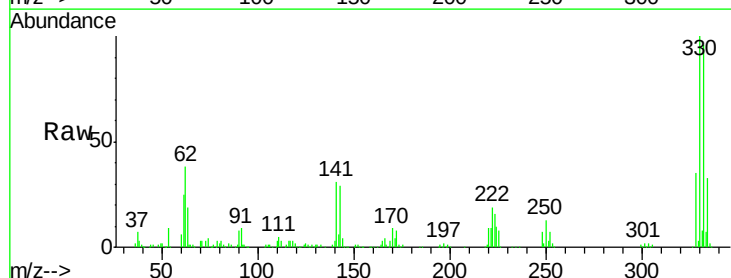
Tgt Ion:248 Resp: 27719

Ion Ratio Lower Upper

248 100

250 194.0 79.4 119.0#

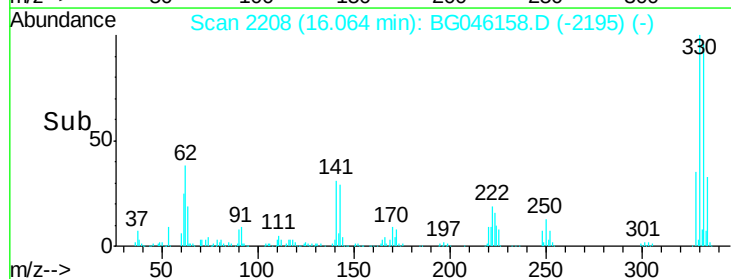
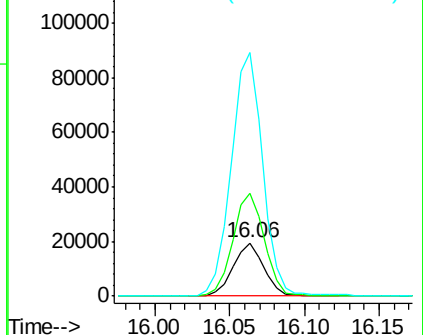
141 460.1 50.9 76.3#

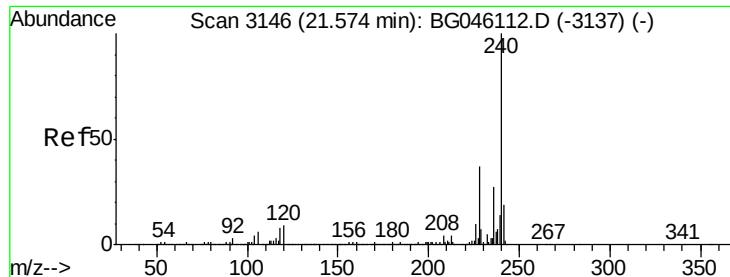


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

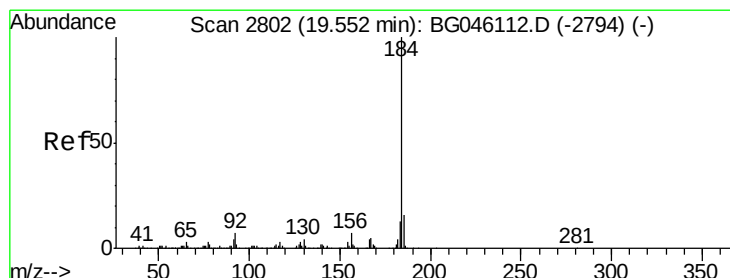
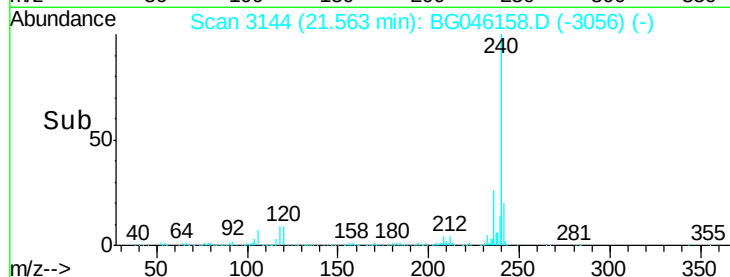
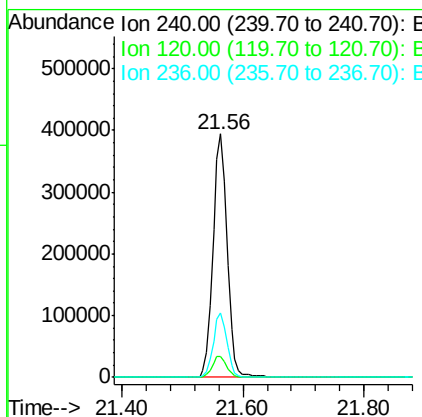
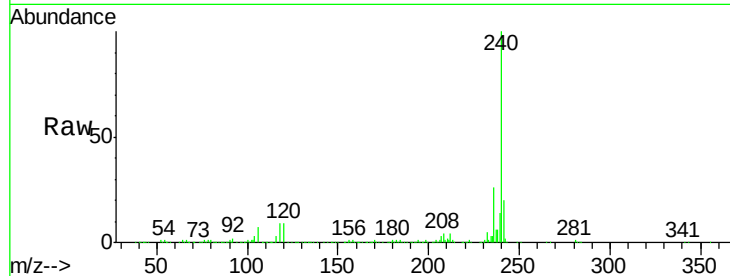




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.56 min Scan# 3144  
Delta R.T. -0.01 min  
Lab File: BG046158.D  
Acq: 3 Aug 2020 20:45

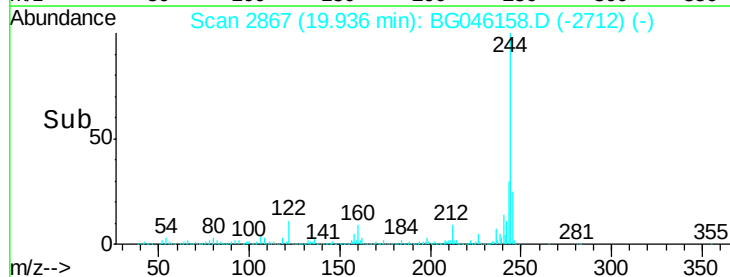
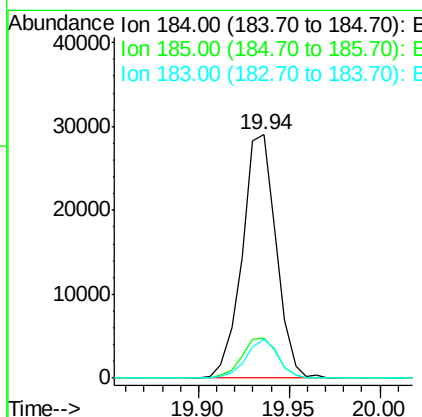
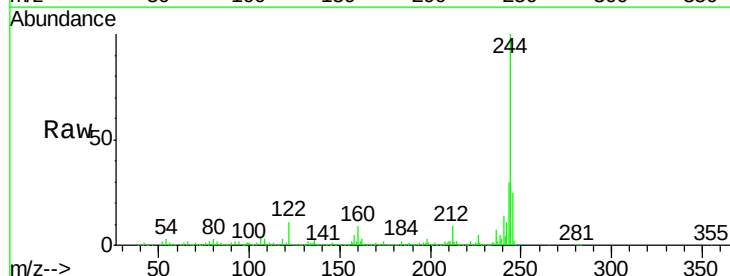
Instrument :  
BNA\_G  
ClientSampleId :  
20200447-FIELD-BLANK

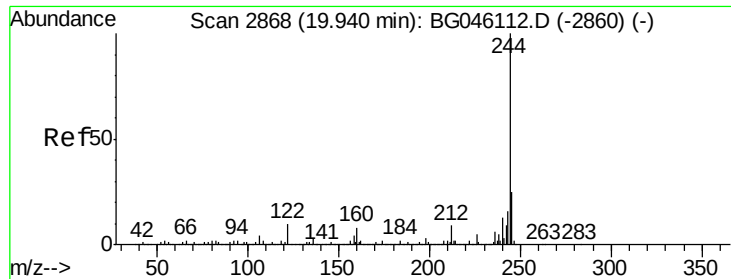
Tot Ion:240 Resp: 639513  
Ion Ratio Lower Upper  
240 100  
120 8.8 7.1 10.7  
236 26.5 21.7 32.5



#77  
Benzidine  
Concen: 2.078 ng  
RT: 19.94 min Scan# 2867  
Delta R.T. 0.38 min  
Lab File: BG046158.D  
Acq: 3 Aug 2020 20:45

Tgt Ion:184 Resp: 37646  
Ion Ratio Lower Upper  
184 100  
185 16.7 13.0 19.4  
183 15.7 10.5 15.7





#79

Terphenyl-d14

Concen: 68.223 ng

RT: 19.94 min Scan# 2867

Delta R.T. -0.00 min

Lab File: BG046158.D

Acq: 3 Aug 2020 20:45

Instrument :

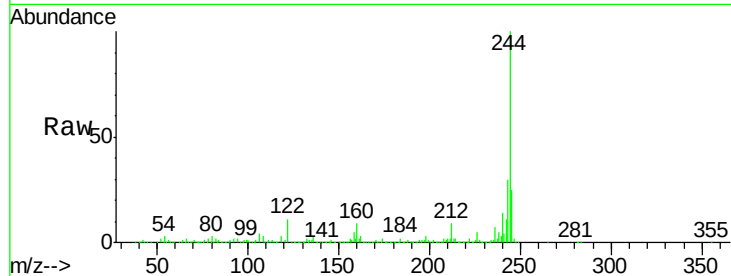
BNA\_G

ClientSampleId :

20200447-FIELD-BLANK

Tot Ion:244 Resp: 2142243

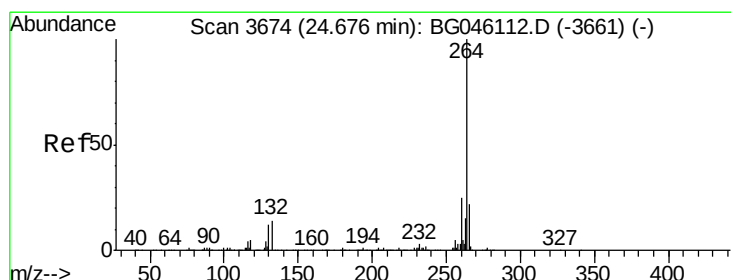
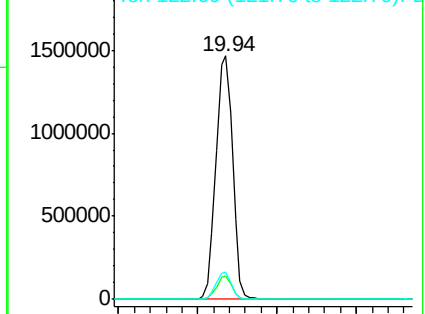
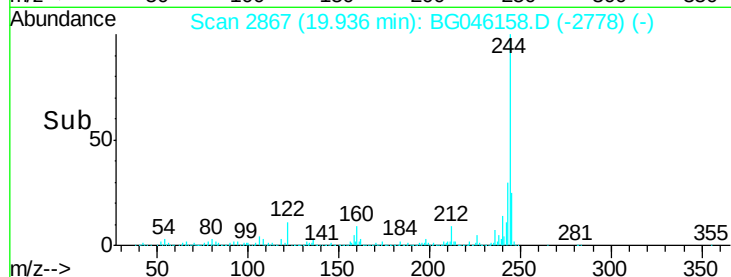
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 9.4   | 7.2   | 10.8  |
| 122 | 11.3  | 8.3   | 12.5  |



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

Perylene-d12

Concen: 20.000 ng

RT: 24.67 min Scan# 3672

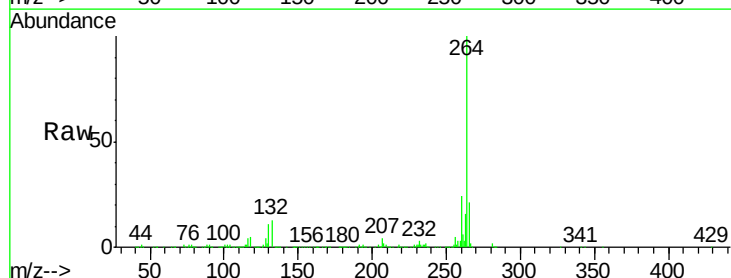
Delta R.T. -0.01 min

Lab File: BG046158.D

Acq: 3 Aug 2020 20:45

Tgt Ion:264 Resp: 652838

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.8  | 19.7  | 29.5  |
| 265 | 21.3  | 17.6  | 26.4  |



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

