

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG082620\  
 Data File : BG046459.D  
 Acq On : 26 Aug 2020 18:31  
 Operator : CG/JU  
 Sample : L3784-02  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 RO-10

Quant Time: Aug 27 01:31:26 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082520.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Aug 25 18:00:34 2020  
 Response via : Initial Calibration

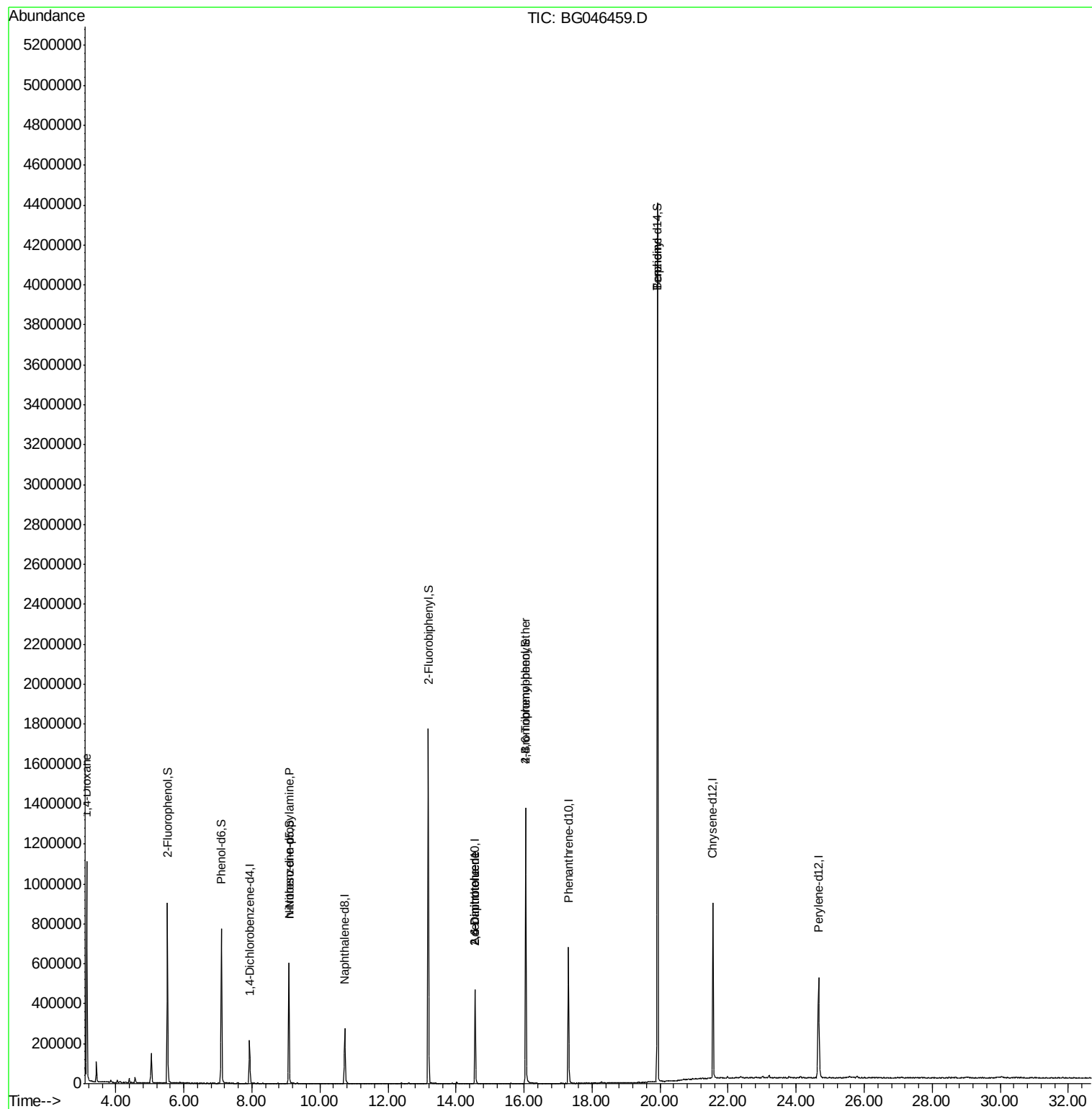
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.93  | 152  | 65527    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.73 | 136  | 259870   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.56 | 164  | 174044   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.30 | 188  | 450124   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.55 | 240  | 559692   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 24.66 | 264  | 555630   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.52  | 112  | 419522   | 113.40 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.10  | 99   | 489948   | 93.42  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.08  | 82   | 394660   | 86.80  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.05 | 330  | 287998   | 122.13 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.18 | 172  | 989078   | 86.75  | ng    | 0.00     |
| 79) Terphenyl-d14              | 19.92 | 244  | 1945219  | 73.97  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 2) 1,4-Dioxane                 | 3.14  | 88   | 9422     | 6.121  | ng    | # 1      |
| 19) n-Nitroso-di-n-propylamine | 9.09  | 70   | 49332    | 15.725 | ng    | # 75     |
| 51) 2,6-Dinitrotoluene         | 14.56 | 165  | 22772    | 7.672  | ng    | # 33     |
| 57) 2,4-Dinitrotoluene         | 14.56 | 165  | 22772    | 5.381  | ng    | # 33     |
| 67) 4-Bromophenyl-phenylether  | 16.05 | 248  | 22454    | 4.276  | ng    | # 1      |
| 77) Benzidine                  | 19.92 | 184  | 30431    | 2.340  | ng    | # 92     |

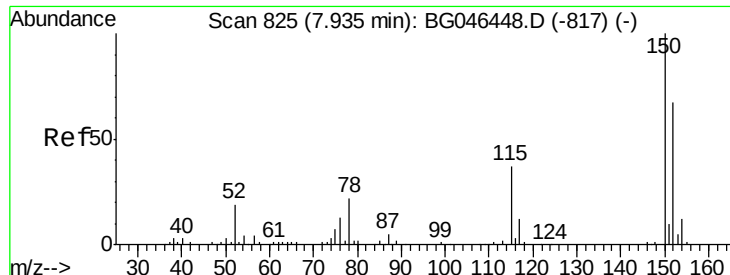
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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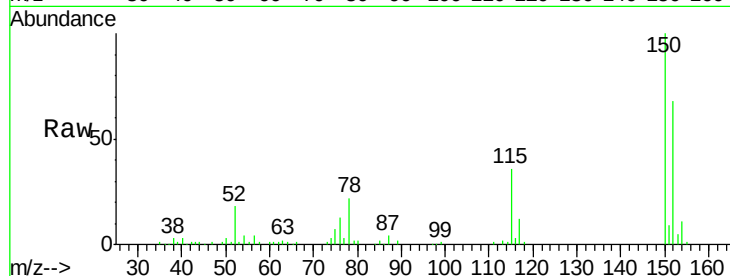


#1

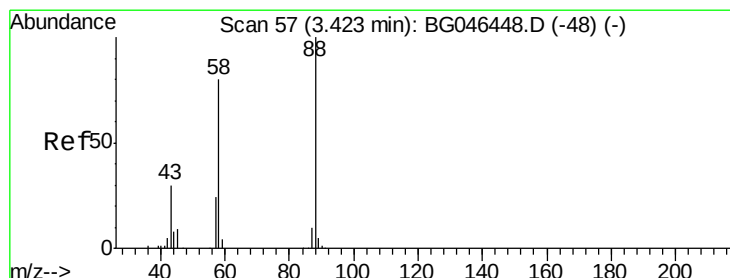
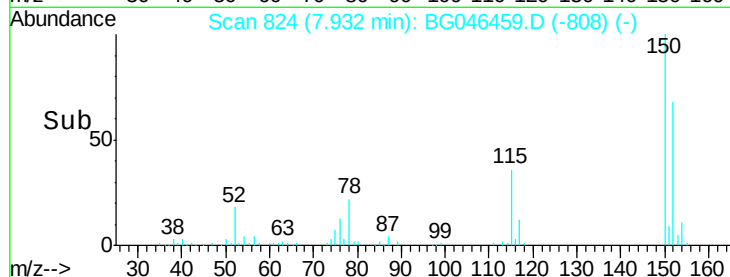
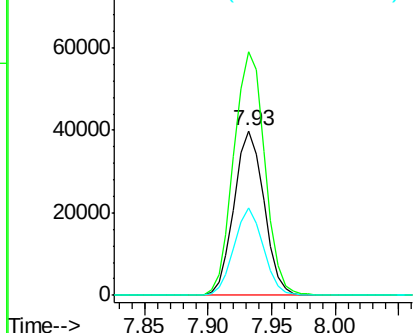
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.93 min Scan# 824  
Delta R.T. -0.00 min  
Lab File: BG046459.D  
Acq: 26 Aug 2020 18:31

Instrument :  
BNA\_G  
ClientSampleId :  
RO-10

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 147.9 | 119.5 | 179.3 |
| 115     | 53.1  | 44.3  | 66.5  |



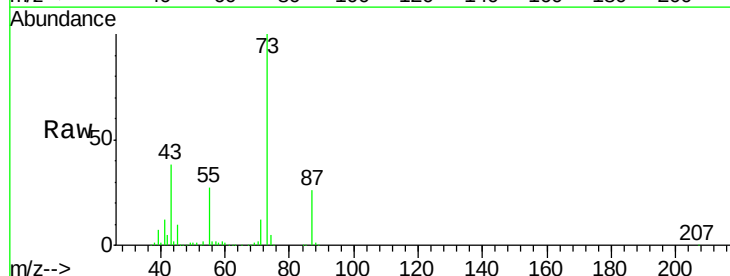
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



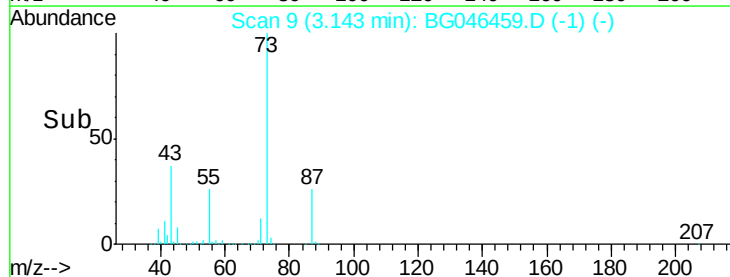
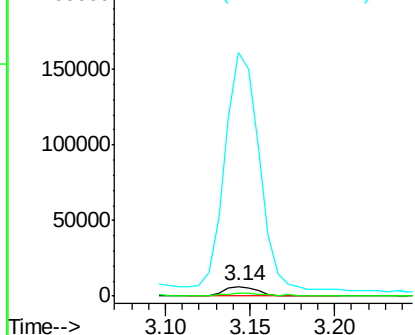
#2

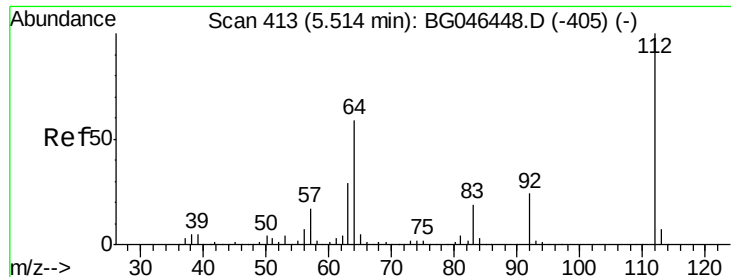
1,4-Dioxane  
Concen: 6.121 ng  
RT: 3.14 min Scan# 9  
Delta R.T. -0.28 min  
Lab File: BG046459.D  
Acq: 26 Aug 2020 18:31

| Tgt Ion | Ratio  | Lower | Upper |
|---------|--------|-------|-------|
| 88      | 100    |       |       |
| 58      | 32.8   | 61.4  | 92.2# |
| 43      | 2470.3 | 21.6  | 32.4# |



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: 113.396 ng

RT: 5.52 min Scan# 413

Delta R.T. 0.00 min

Lab File: BG046459.D

Acq: 26 Aug 2020 18:31

Instrument :

BNA\_G

ClientSampleId :

RO-10

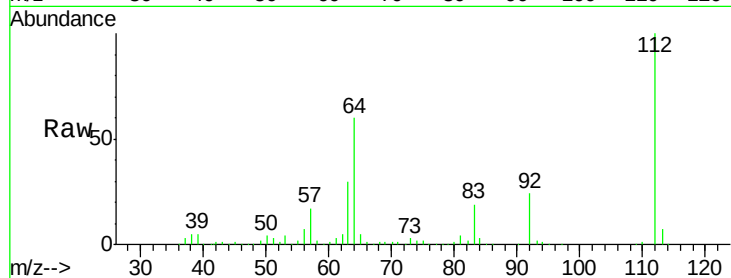
Tot Ion:112 Resp: 419522

Ion Ratio Lower Upper

112 100

64 59.9 47.0 70.6

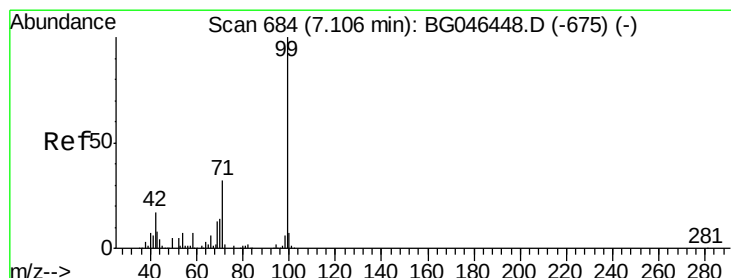
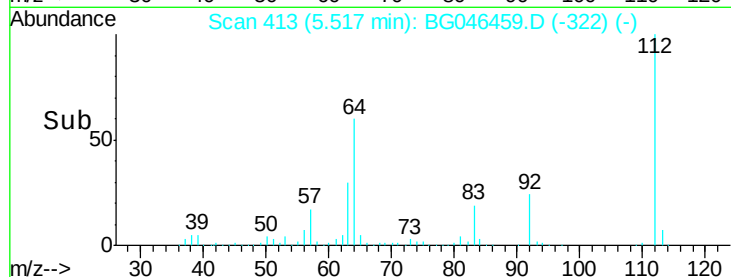
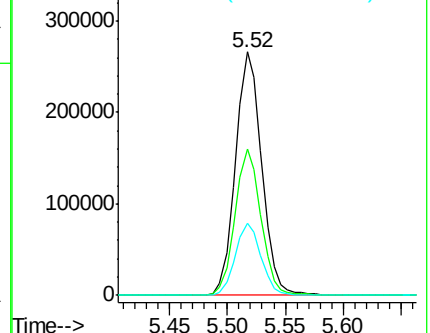
63 29.8 23.5 35.3



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: 93.420 ng

RT: 7.10 min Scan# 683

Delta R.T. -0.00 min

Lab File: BG046459.D

Acq: 26 Aug 2020 18:31

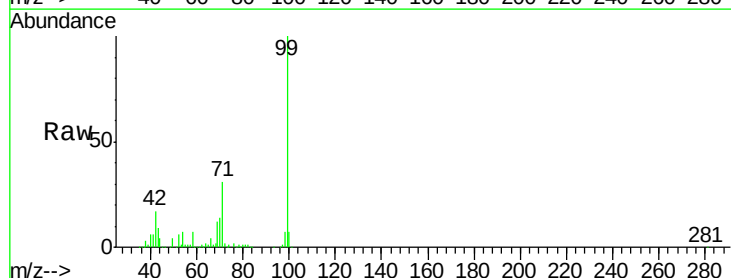
Tgt Ion: 99 Resp: 489948

Ion Ratio Lower Upper

99 100

42 16.6 13.3 19.9

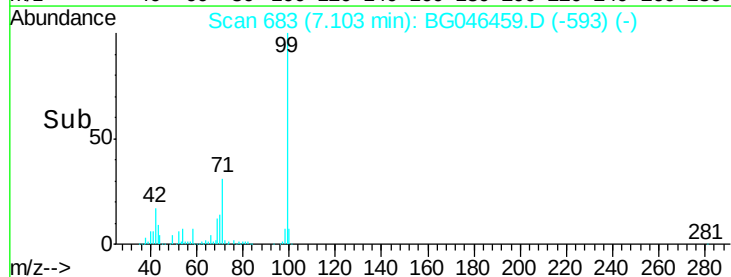
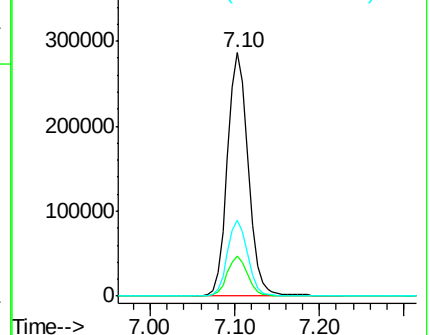
71 31.4 25.3 37.9

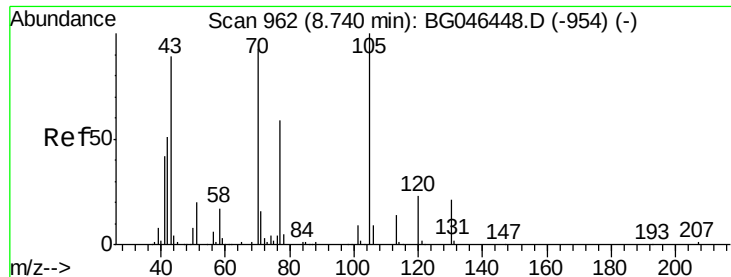


Abundance Ion 99.00 (98.70 to 99.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 71.00 (70.70 to 71.70): BGC

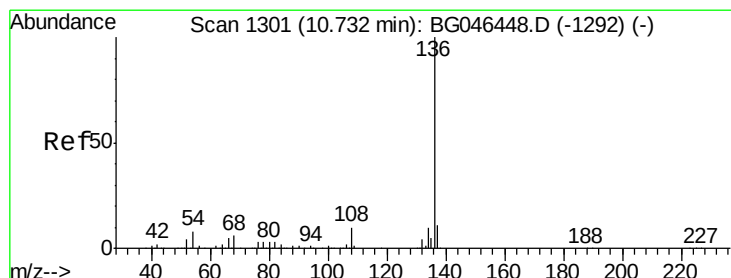
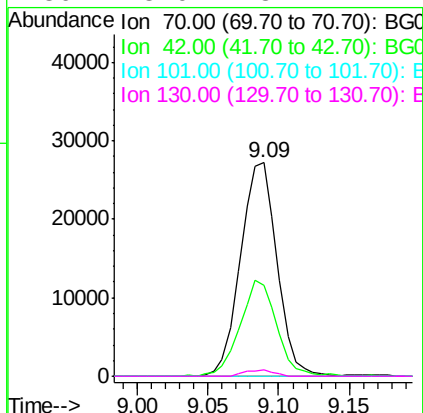
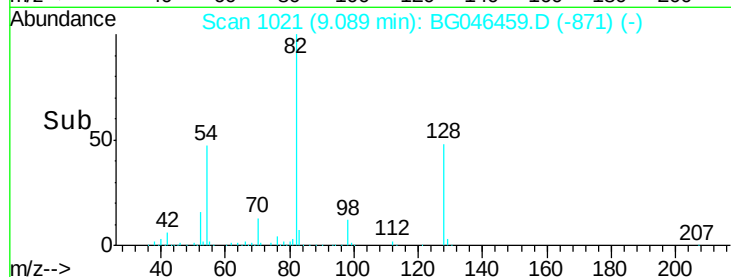
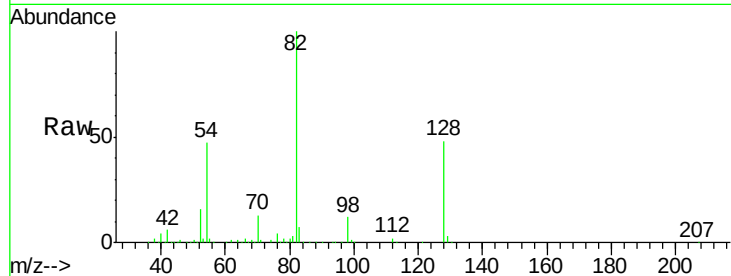




#19  
n-Nitroso-di-n-propylamine  
Concen: 15.725 ng  
RT: 9.09 min Scan# 1021  
Delta R.T. 0.35 min  
Lab File: BG046459.D  
Acq: 26 Aug 2020 18:31

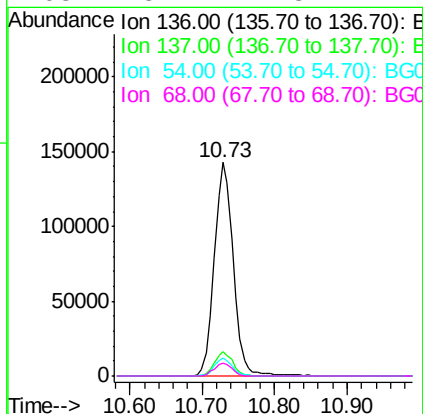
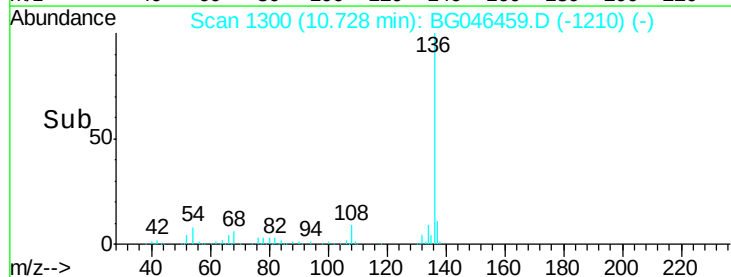
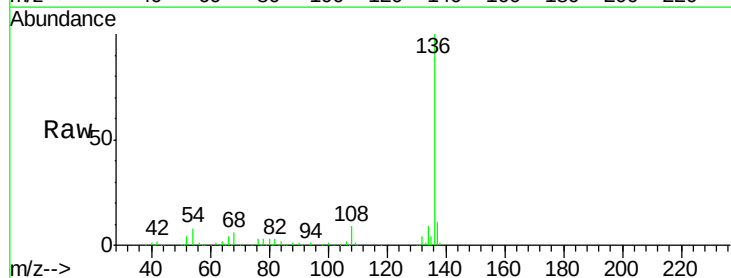
Instrument :  
BNA\_G  
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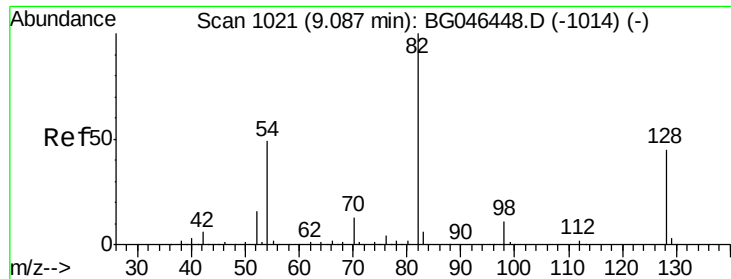
Tot Ion: 70 Resp: 49332  
Ion Ratio Lower Upper  
70 100  
42 42.6 44.2 66.2#  
101 0.0 7.8 11.8#  
130 3.0 18.2 27.4#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.73 min Scan# 1300  
Delta R.T. -0.00 min  
Lab File: BG046459.D  
Acq: 26 Aug 2020 18:31

Tgt Ion:136 Resp: 259870  
Ion Ratio Lower Upper  
136 100  
137 11.3 8.8 13.2  
54 8.3 6.1 9.1  
68 5.7 4.8 7.2

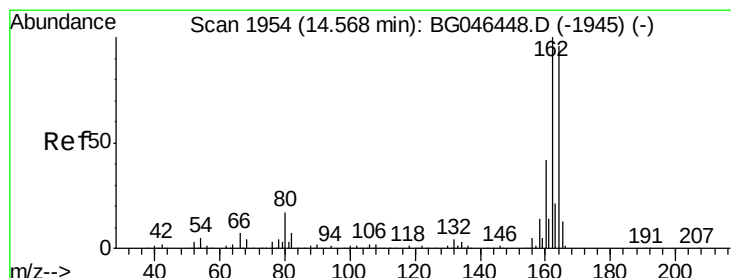
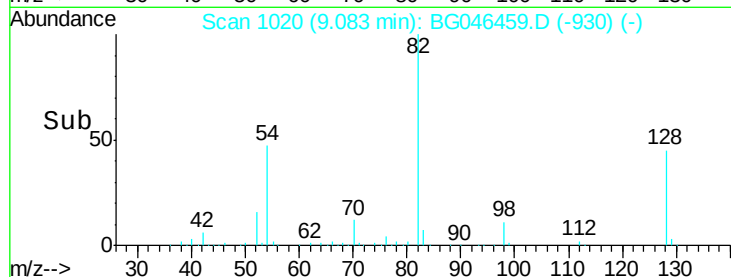
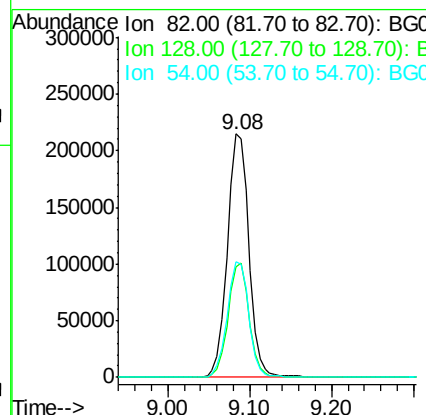
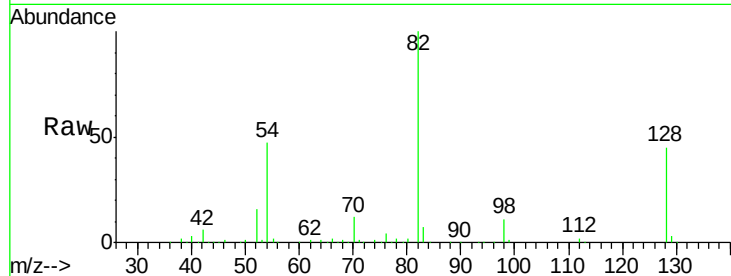




#23  
 Nitrobenzene-d5  
 Concen: 86.800 ng  
 RT: 9.08 min Scan# 1020  
 Delta R.T. -0.00 min  
 Lab File: BG046459.D  
 Acq: 26 Aug 2020 18:31

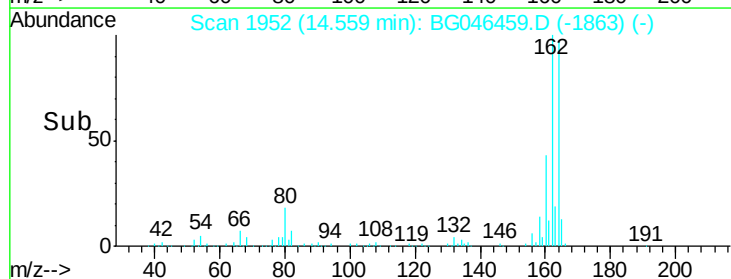
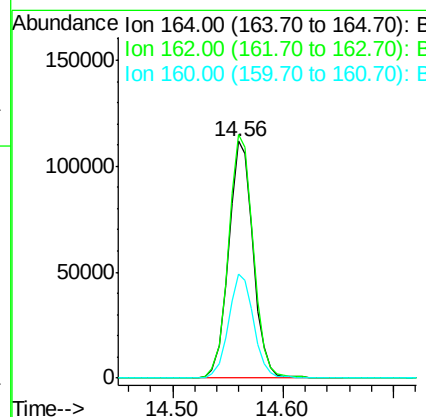
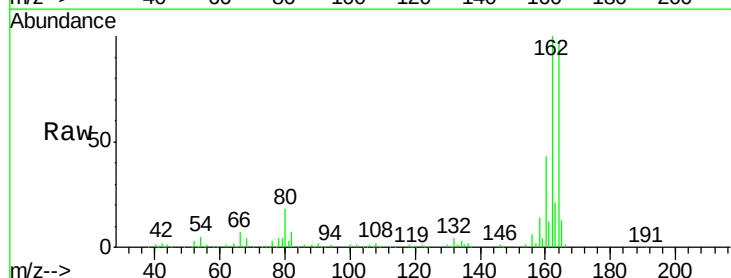
Instrument :  
 BNA\_G  
 ClientSampleId :  
 RO-10

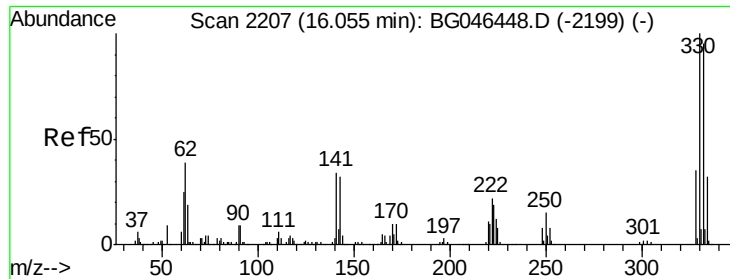
| Tot Ion   | 82   | Resp | 394660 |
|-----------|------|------|--------|
| Ion Ratio | 100  |      |        |
| Lower     | 35.7 |      |        |
| Upper     | 53.5 |      |        |
| 128       | 45.2 |      |        |
| 54        | 47.4 |      |        |
|           | 39.4 |      |        |
|           | 59.0 |      |        |



#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.56 min Scan# 1952  
 Delta R.T. -0.01 min  
 Lab File: BG046459.D  
 Acq: 26 Aug 2020 18:31

| Tgt Ion   | 164   | Resp | 174044 |
|-----------|-------|------|--------|
| Ion Ratio | 100   |      |        |
| Lower     | 83.3  |      |        |
| Upper     | 124.9 |      |        |
| 162       | 102.7 |      |        |
| 160       | 44.0  |      |        |
|           | 35.0  |      |        |
|           | 52.6  |      |        |





#42

2,4,6-Tribromophenol

Concen: 122.128 ng

RT: 16.05 min Scan# 2206

Delta R.T. -0.00 min

Lab File: BG046459.D

Acq: 26 Aug 2020 18:31

Instrument :

BNA\_G

ClientSampled :

RO-10

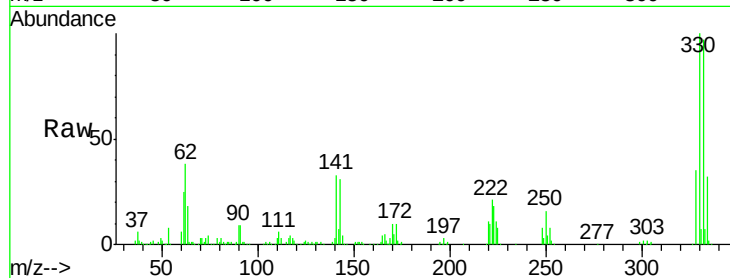
Tot Ion:330 Resp: 287998

Ion Ratio Lower Upper

330 100

332 96.8 76.1 114.1

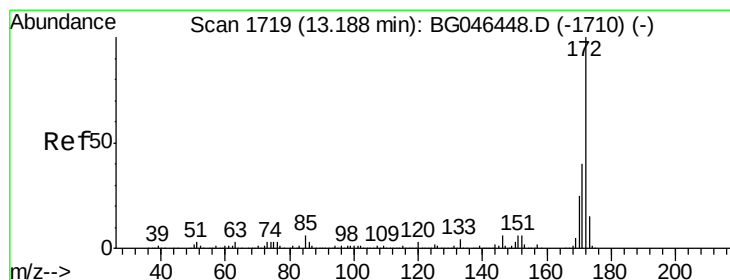
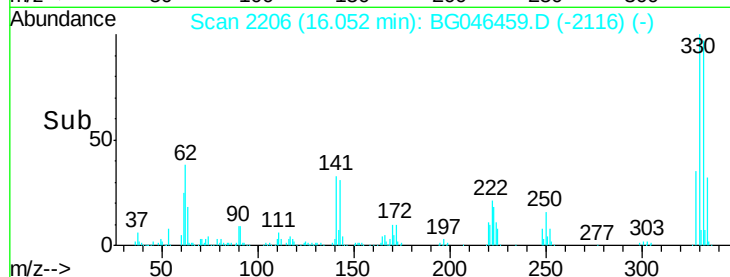
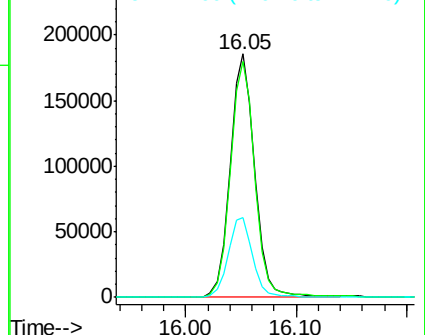
141 32.9 26.1 39.1



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



#45

2-Fluorobiphenyl

Concen: 86.753 ng

RT: 13.18 min Scan# 1718

Delta R.T. -0.00 min

Lab File: BG046459.D

Acq: 26 Aug 2020 18:31

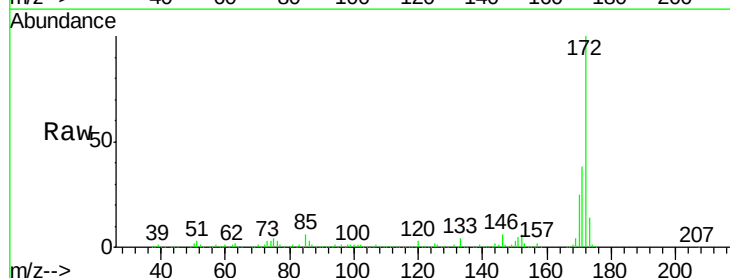
Tgt Ion:172 Resp: 989078

Ion Ratio Lower Upper

172 100

171 38.0 31.8 47.6

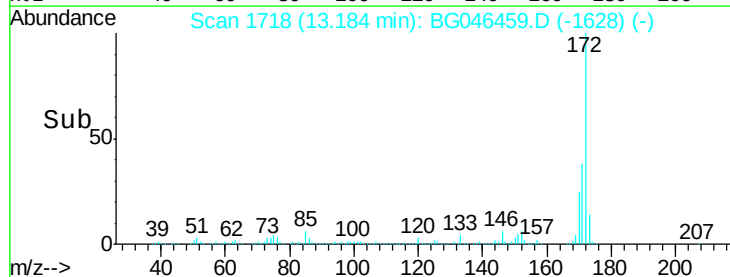
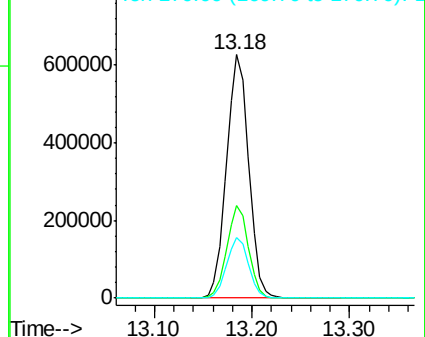
170 24.9 20.3 30.5

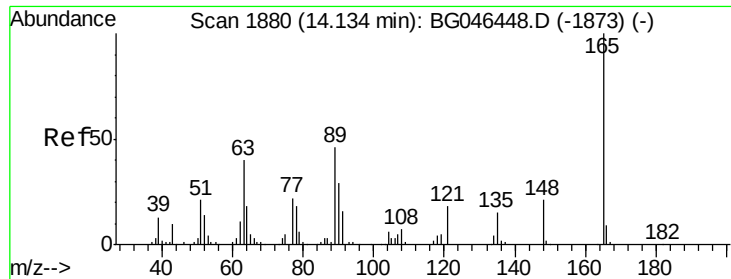


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

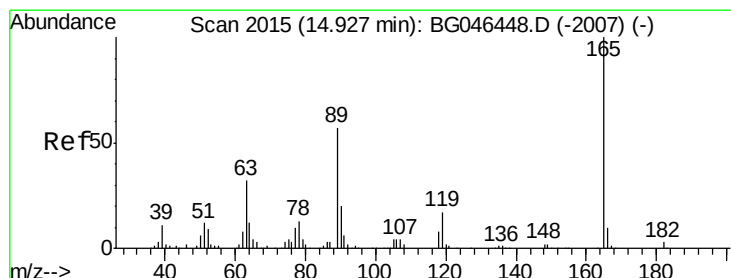
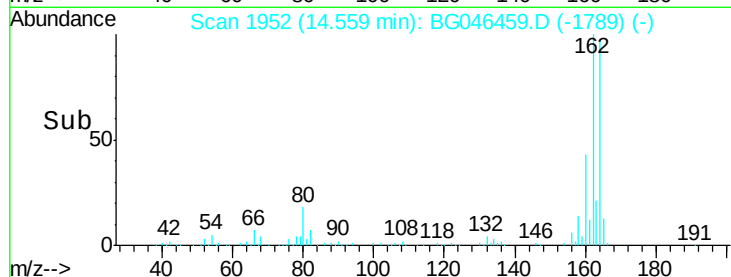
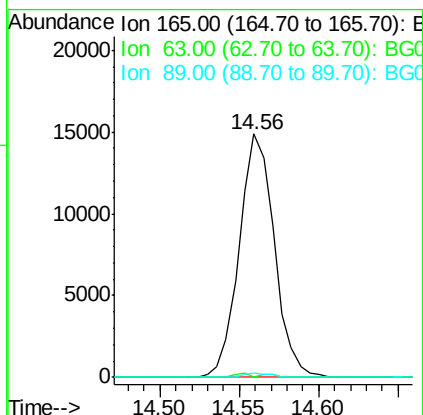
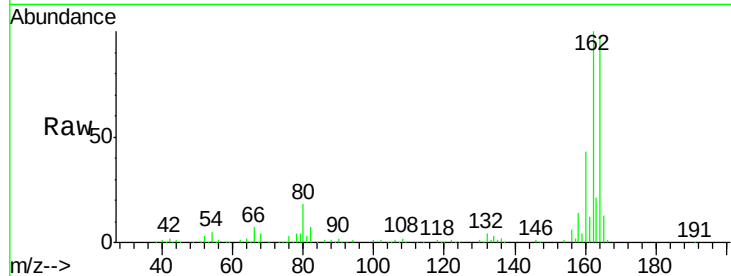




#51  
 2,6-Dinitrotoluene  
 Concen: 7.672 ng  
 RT: 14.56 min Scan# 1952  
 Delta R.T. 0.43 min  
 Lab File: BG046459.D  
 Acq: 26 Aug 2020 18:31

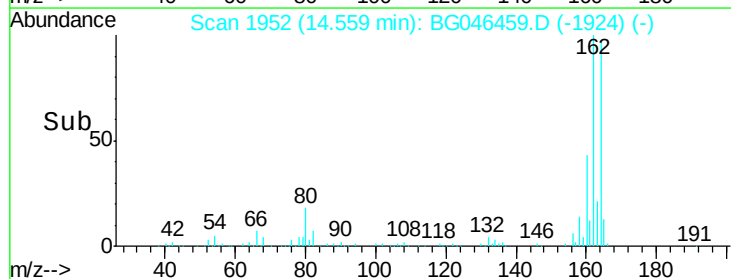
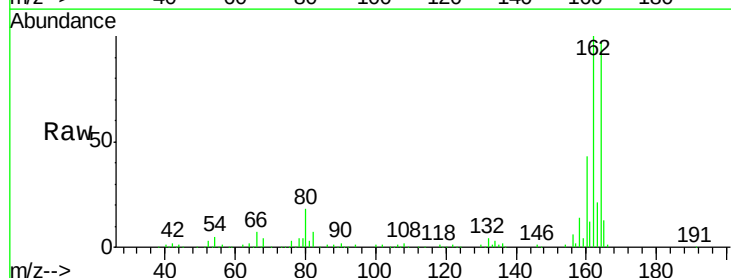
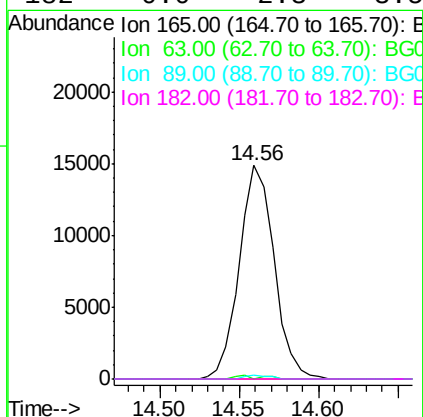
Instrument :  
 BNA\_G  
 ClientSampleId :  
 RO-10

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 34.2  | 51.4# |
| 89      | 1.6   | 37.0  | 55.4# |

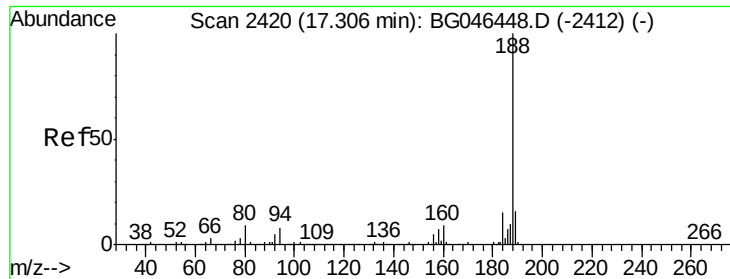


#57  
 2,4-Dinitrotoluene  
 Concen: 5.381 ng  
 RT: 14.56 min Scan# 1952  
 Delta R.T. -0.37 min  
 Lab File: BG046459.D  
 Acq: 26 Aug 2020 18:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 25.4  | 38.0# |
| 89      | 1.6   | 45.9  | 68.9# |
| 182     | 0.0   | 2.3   | 3.5#  |







#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.30 min Scan# 2419

Delta R.T. -0.00 min

Lab File: BG046459.D

Acq: 26 Aug 2020 18:31

Instrument :

BNA\_G

ClientSampleId :

RO-10

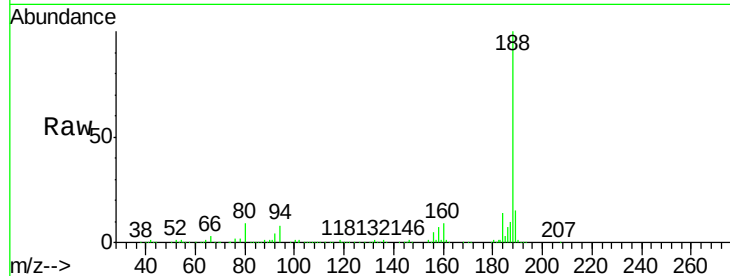
Tot Ion:188 Resp: 450124

Ion Ratio Lower Upper

188 100

94 7.8 6.3 9.5

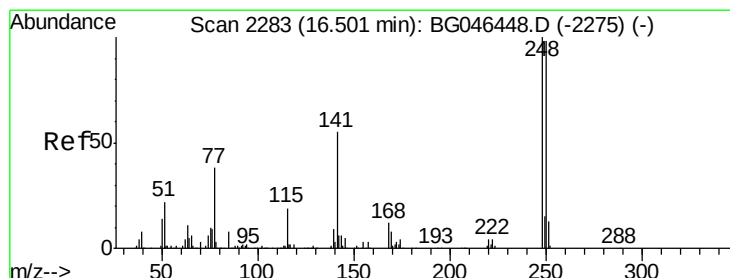
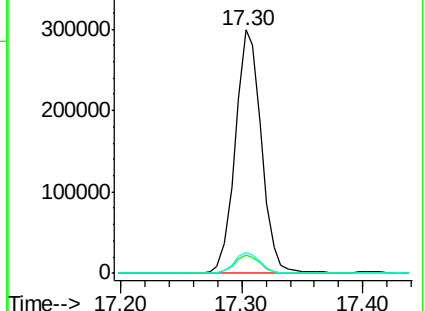
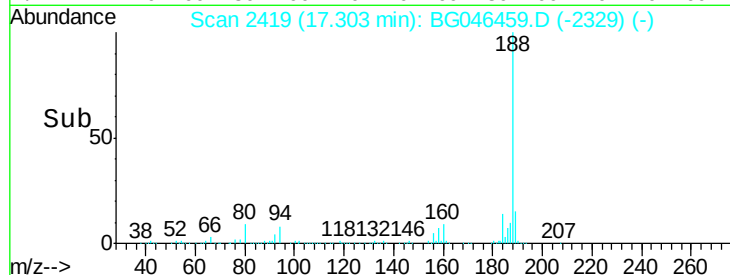
80 8.8 6.9 10.3



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: 4.276 ng

RT: 16.05 min Scan# 2206

Delta R.T. -0.45 min

Lab File: BG046459.D

Acq: 26 Aug 2020 18:31

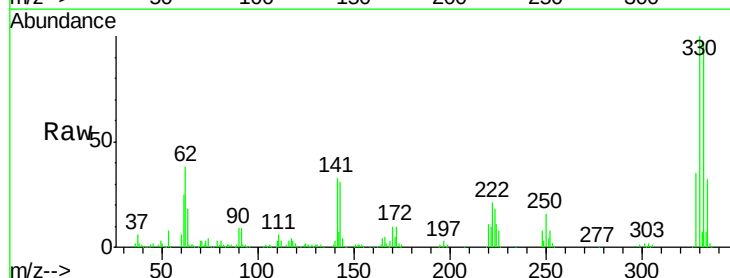
Tgt Ion:248 Resp: 22454

Ion Ratio Lower Upper

248 100

250 198.9 78.6 118.0#

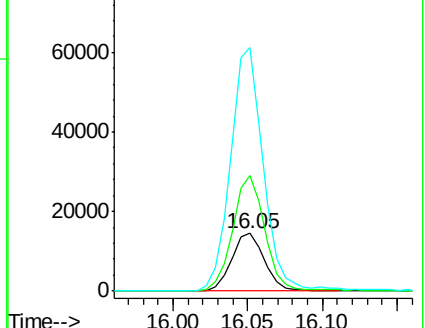
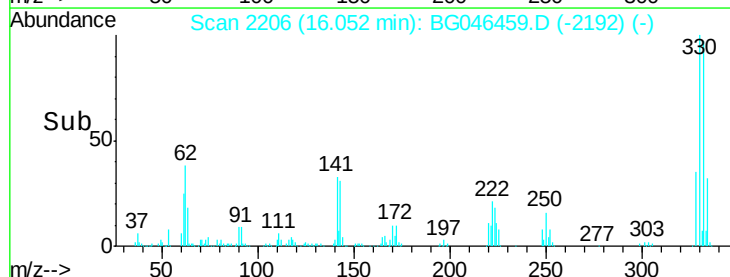
141 420.1 43.9 65.9#

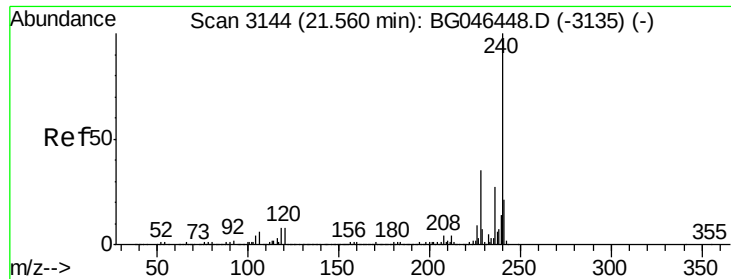


Abundance Ion 248.00 (247.70 to 248.70): E

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: 21.55 min Scan# 3142

Delta R.T. -0.01 min

Lab File: BG046459.D

Acq: 26 Aug 2020 18:31

Instrument :

BNA\_G

ClientSampleId :

RO-10

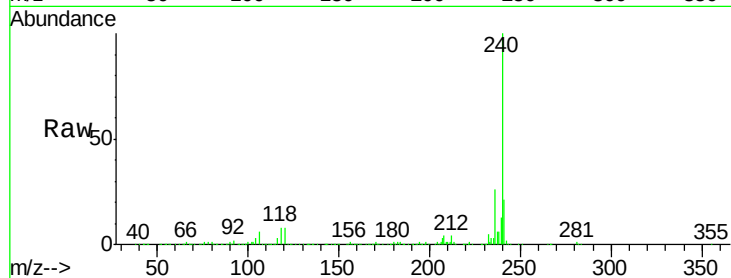
Tot Ion:240 Resp: 559692

Ion Ratio Lower Upper

240 100

120 8.2 6.6 10.0

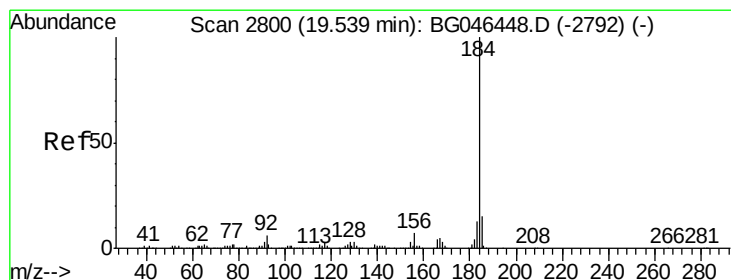
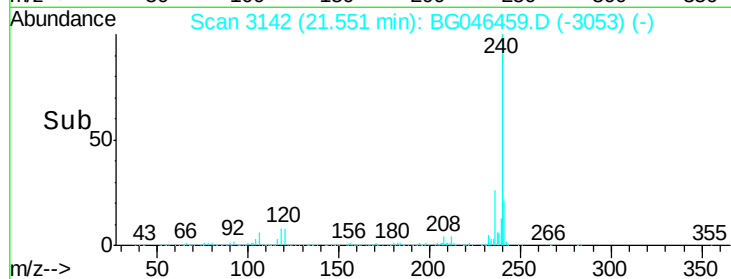
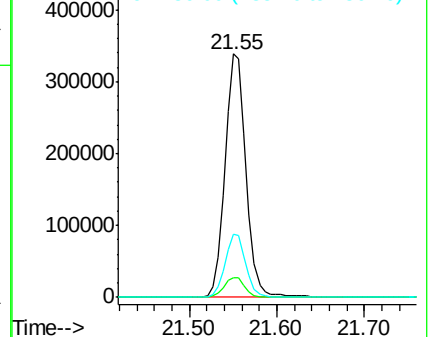
236 26.1 21.4 32.2



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



#77

Benzidine

Concen: 2.340 ng

RT: 19.92 min Scan# 2865

Delta R.T. 0.38 min

Lab File: BG046459.D

Acq: 26 Aug 2020 18:31

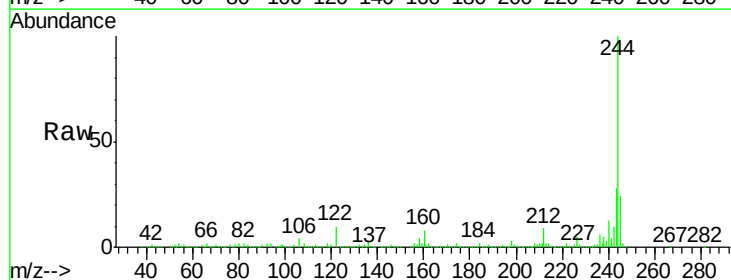
Tgt Ion:184 Resp: 30431

Ion Ratio Lower Upper

184 100

185 19.6 11.8 17.8#

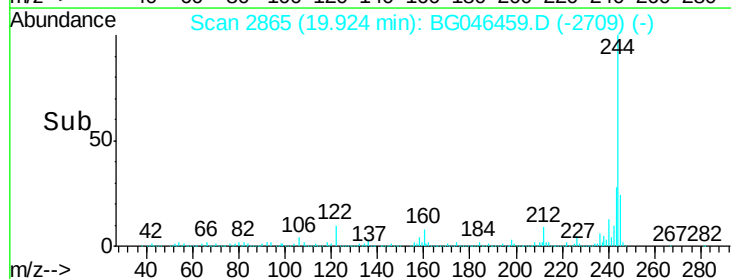
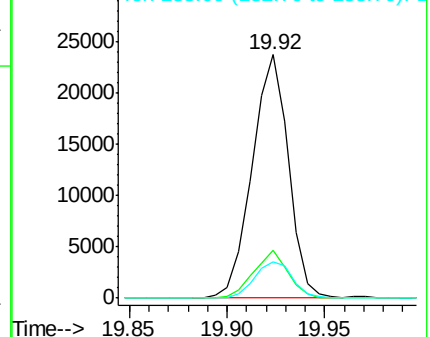
183 14.7 10.7 16.1

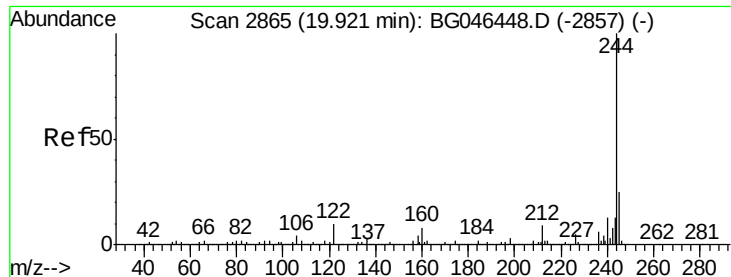


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#79

Terphenyl-d14

Concen: 73.965 ng

RT: 19.92 min Scan# 2865

Delta R.T. 0.00 min

Lab File: BG046459.D

Acq: 26 Aug 2020 18:31

Instrument :

BNA\_G

ClientSampleId :

RO-10

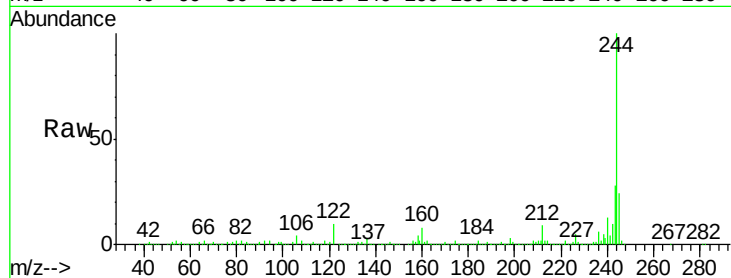
Tot Ion:244 Resp: 1945219

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 8.9   | 6.9   | 10.3  |
| 122 | 10.2  | 8.2   | 12.4  |

244 100

212 8.9 6.9 10.3

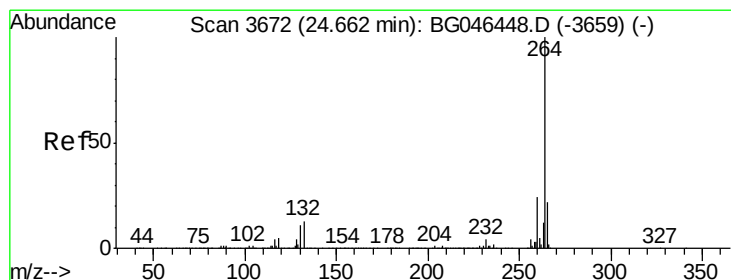
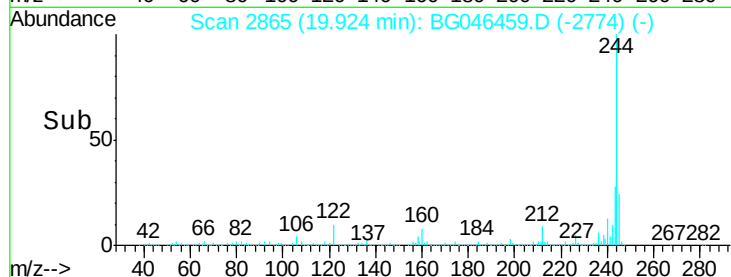
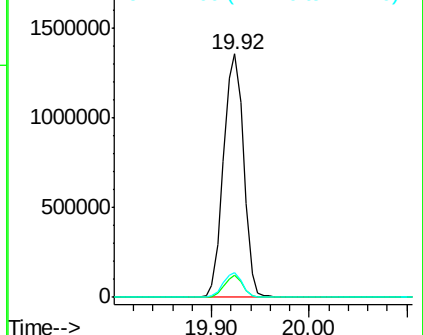
122 10.2 8.2 12.4



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

Perylene-d12

Concen: 20.000 ng

RT: 24.66 min Scan# 3671

Delta R.T. -0.00 min

Lab File: BG046459.D

Acq: 26 Aug 2020 18:31

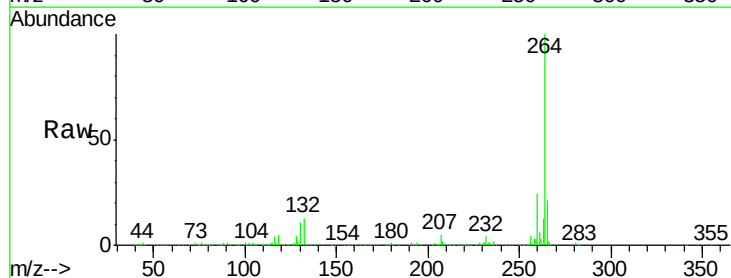
Tgt Ion:264 Resp: 555630

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.8  | 19.2  | 28.8  |
| 265 | 21.3  | 17.9  | 26.9  |

264 100

260 23.8 19.2 28.8

265 21.3 17.9 26.9



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

