

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG082119\  
 Data File : BG042392.D  
 Acq On : 21 Aug 2019 20:38  
 Operator : HP/JU  
 Sample : K4413-04  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Aug 22 01:24:18 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG081919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 19 13:40:37 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.01  | 152  | 68286    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.83 | 136  | 275758   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.66 | 164  | 210857   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.41 | 188  | 461877   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.69 | 240  | 399063   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 24.94 | 264  | 465899   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.56  | 112  | 185597   | 55.07  | ng    | 0.00     |
| 7) Phenol-d6                | 7.17  | 99   | 155004   | 33.86  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.18  | 82   | 385570   | 98.34  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.16 | 330  | 404556   | 140.87 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.28 | 172  | 1260123  | 101.13 | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.03 | 244  | 1815069  | 99.62  | ng    | 0.00     |

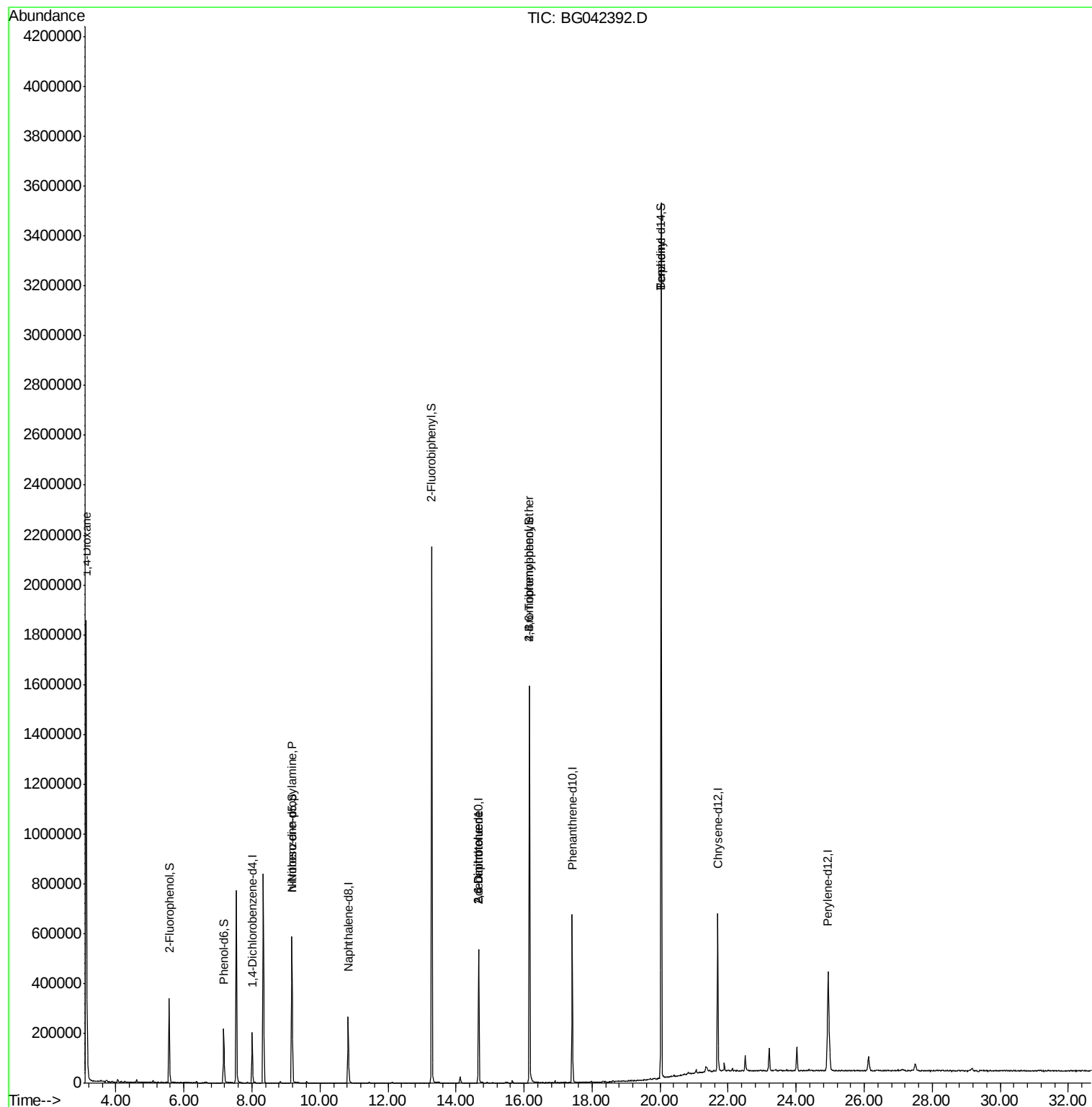
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 2) 1,4-Dioxane                 | 3.12  | 88   | 20050    | 13.795 | ng    | # 1    |
| 19) n-Nitroso-di-n-propylamine | 9.18  | 70   | 50124    | 17.025 | ng    | # 72   |
| 51) 2,6-Dinitrotoluene         | 14.66 | 165  | 27619    | 7.876  | ng    | # 40   |
| 57) 2,4-Dinitrotoluene         | 14.66 | 165  | 27619    | 5.633  | ng    | # 38   |
| 67) 4-Bromophenyl-phenylether  | 16.16 | 248  | 27479    | 4.675  | ng    | # 1    |
| 77) Benzidine                  | 20.03 | 184  | 25352    | 2.396  | ng    | # 93   |

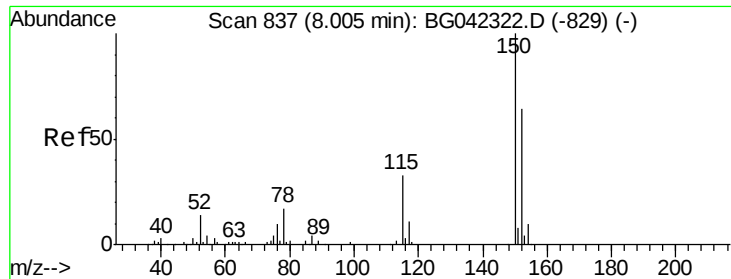
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG082119\  
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Sample : K4413-04  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Aug 22 01:24:18 2019  
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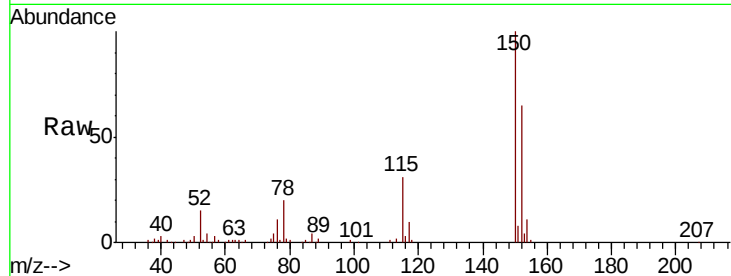


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.01 min Scan# 837  
Delta R.T. 0.00 min  
Lab File: BG042392.D  
Acq: 21 Aug 2019 20:38

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.7 | 124.3 | 186.5 |
| 115     | 47.4  | 40.5  | 60.7  |

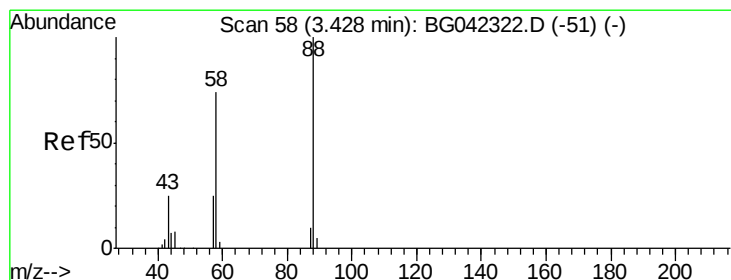
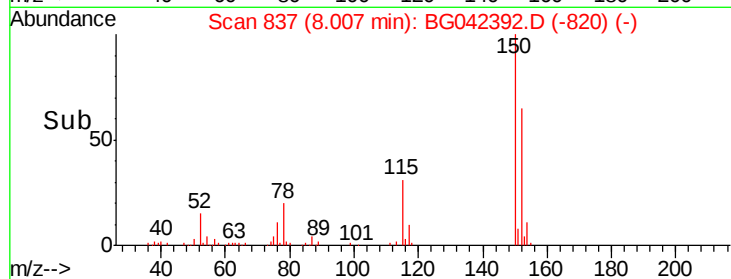
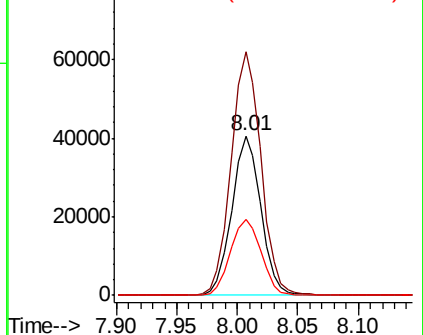


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

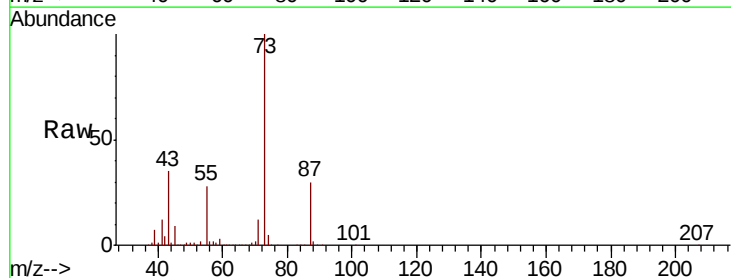
Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane  
Concen: 13.795 ng  
RT: 3.12 min Scan# 6  
Delta R.T. -0.30 min  
Lab File: BG042392.D  
Acq: 21 Aug 2019 20:38

| Tgt Ion | Ratio  | Lower | Upper |
|---------|--------|-------|-------|
| 88      | 100    |       |       |
| 58      | 27.8   | 58.6  | 88.0# |
| 43      | 2078.6 | 19.4  | 29.0# |

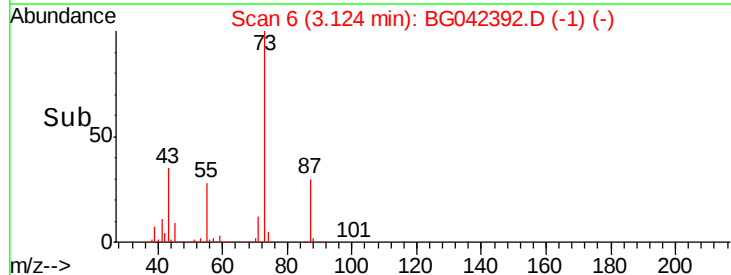
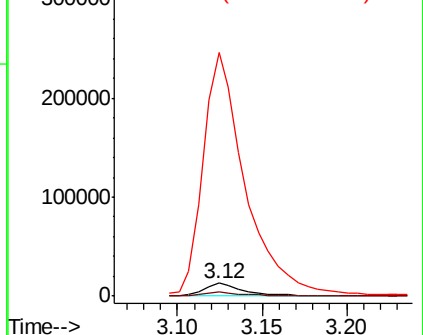


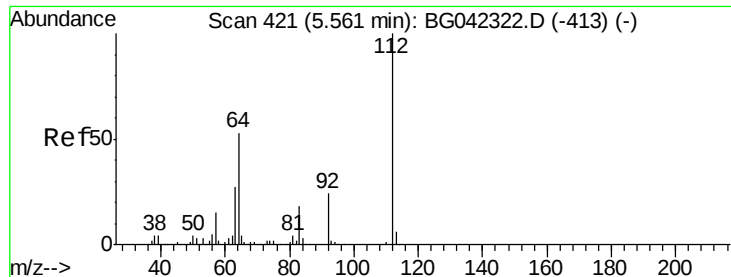
Abundance

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: 55.068 ng

RT: 5.56 min Scan# 421

Delta R.T. 0.00 min

Lab File: BG042392.D

Acq: 21 Aug 2019 20:38

Instrument :

BNA\_G

ClientSampleId :

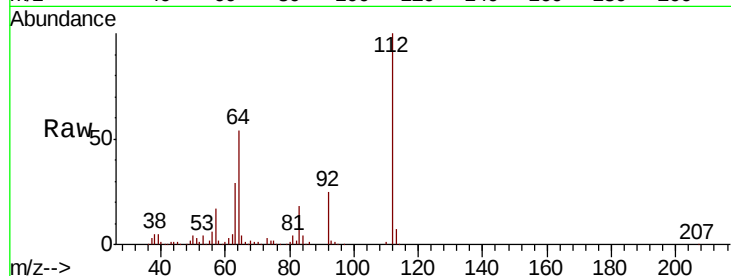
Tot Ion:112 Resp: 185597

Ion Ratio Lower Upper

112 100

64 53.5 42.5 63.7

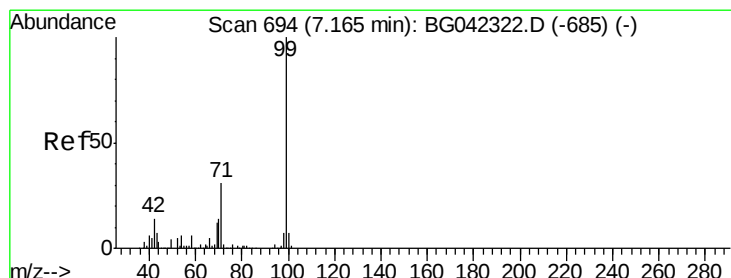
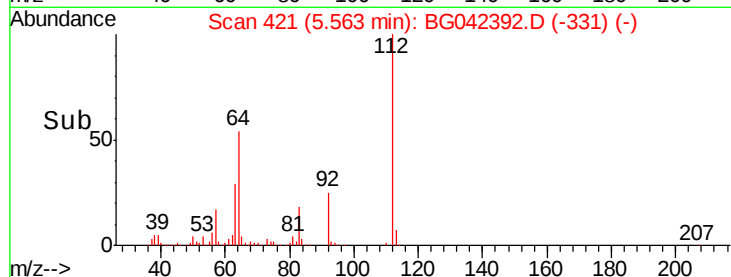
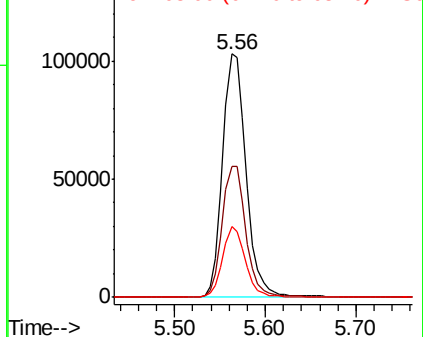
63 29.3 21.7 32.5



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: 33.864 ng

RT: 7.17 min Scan# 695

Delta R.T. 0.01 min

Lab File: BG042392.D

Acq: 21 Aug 2019 20:38

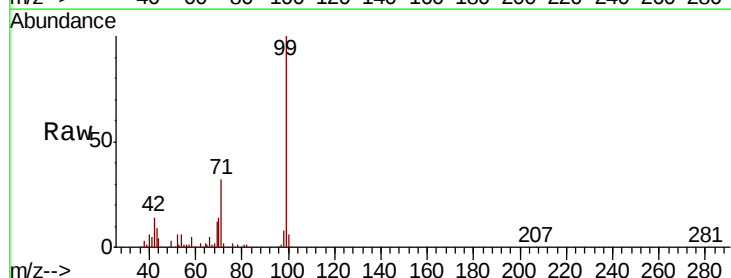
Tgt Ion: 99 Resp: 155004

Ion Ratio Lower Upper

99 100

42 13.5 11.4 17.0

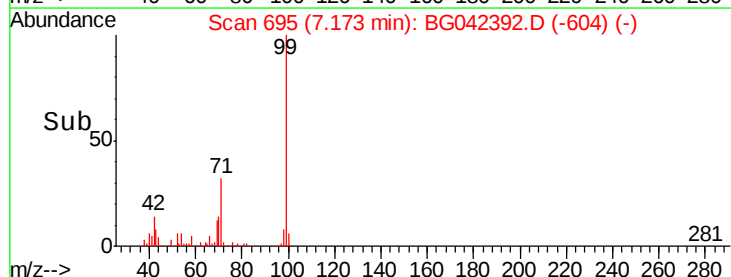
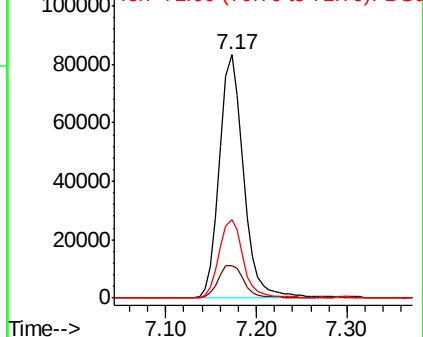
71 32.1 25.1 37.7

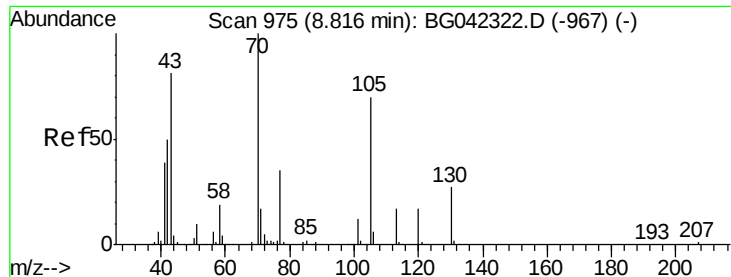


Abundance Ion 99.00 (98.70 to 99.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 71.00 (70.70 to 71.70): BGC

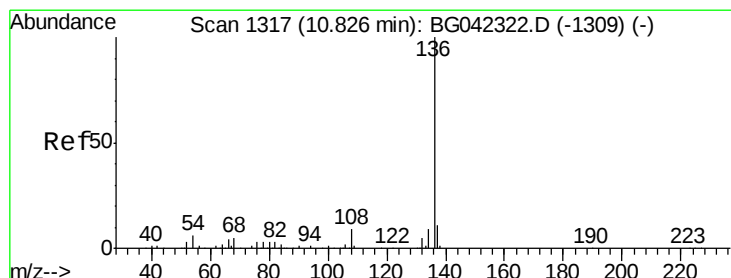
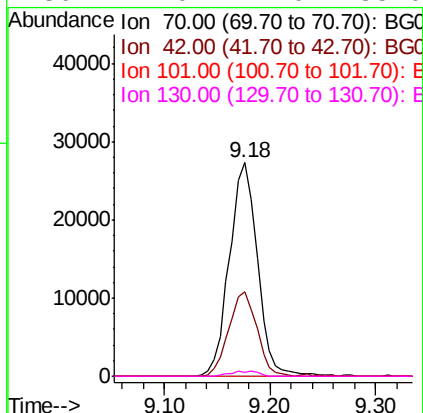
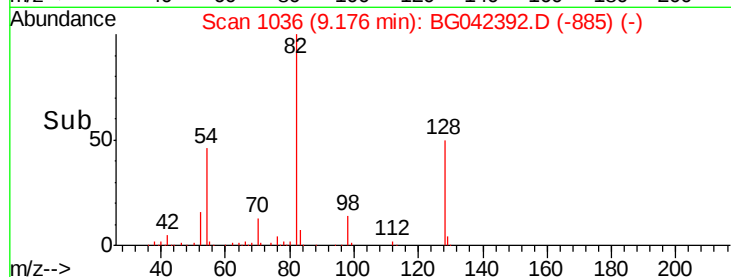
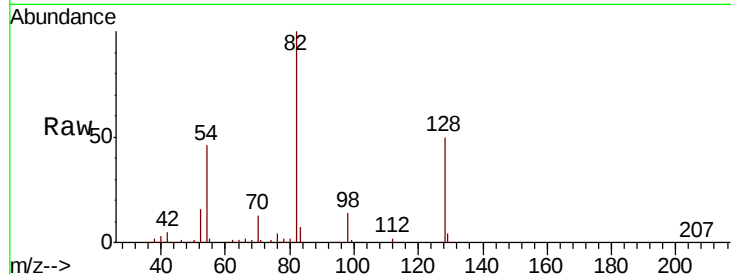




#19  
n-Nitroso-di-n-propylamine  
Concen: 17.025 ng  
RT: 9.18 min Scan# 1036  
Delta R.T. 0.36 min  
Lab File: BG042392.D  
Acq: 21 Aug 2019 20:38

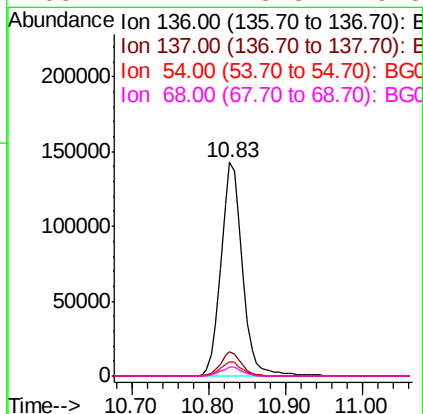
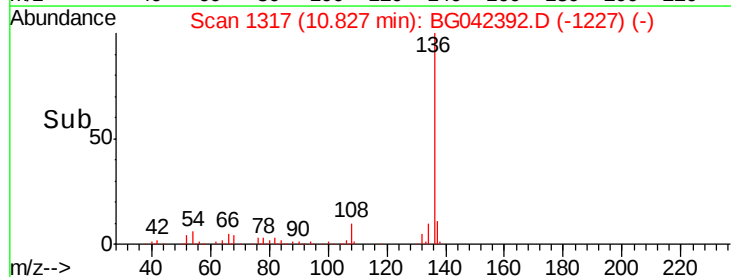
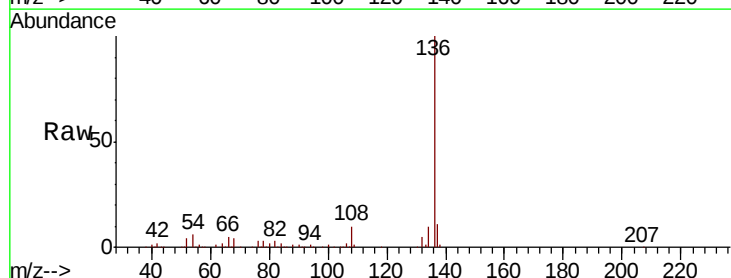
Instrument :  
BNA\_G  
ClientSampleId :

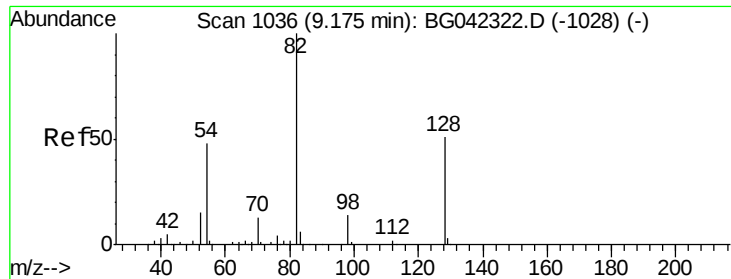
Tot Ion: 70 Resp: 50124  
Ion Ratio Lower Upper  
70 100  
42 39.6 40.5 60.7#  
101 0.0 9.3 13.9#  
130 2.0 22.0 33.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.83 min Scan# 1317  
Delta R.T. 0.00 min  
Lab File: BG042392.D  
Acq: 21 Aug 2019 20:38

Tgt Ion:136 Resp: 275758  
Ion Ratio Lower Upper  
136 100  
137 11.5 8.4 12.6  
54 6.4 5.0 7.4  
68 4.4 3.8 5.8

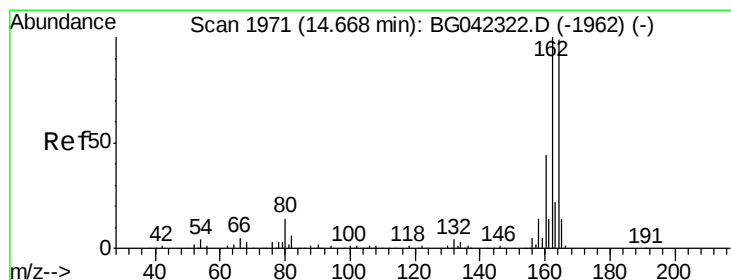
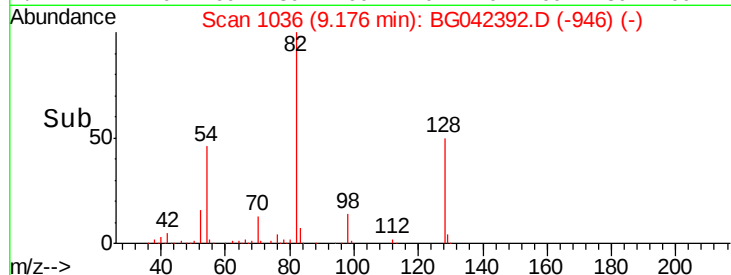
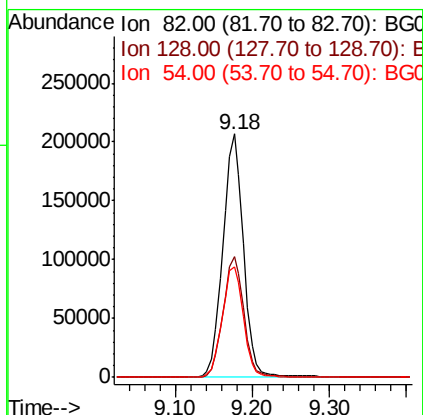
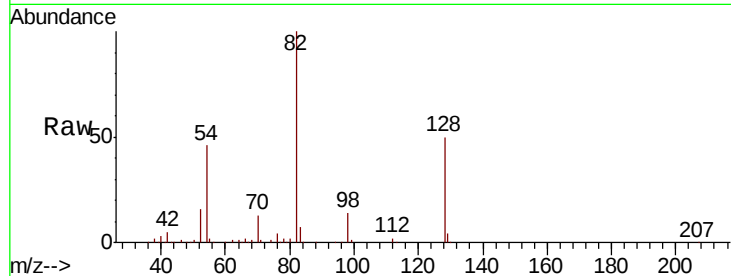




#23  
 Nitrobenzene-d5  
 Concen: 98.341 ng  
 RT: 9.18 min Scan# 1036  
 Delta R.T. 0.00 min  
 Lab File: BG042392.D  
 Acq: 21 Aug 2019 20:38

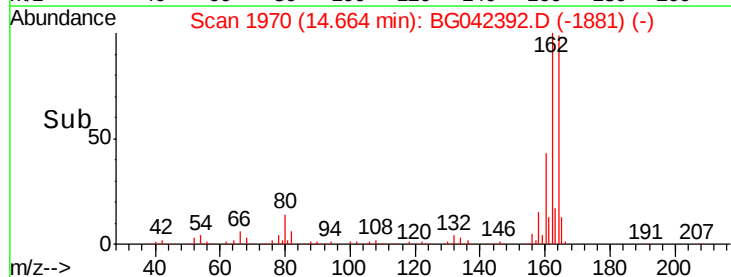
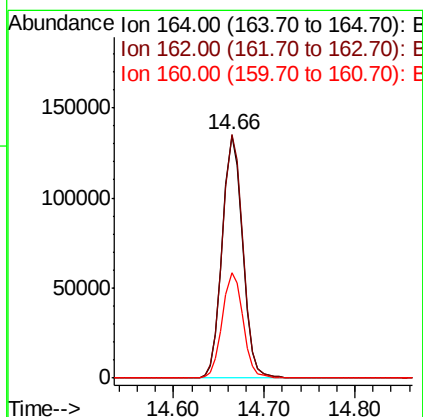
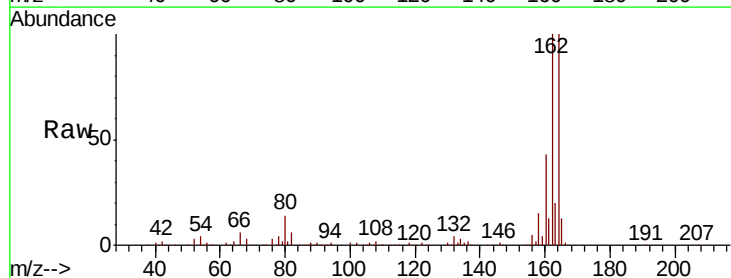
Instrument :  
 BNA\_G  
 ClientSampleId :

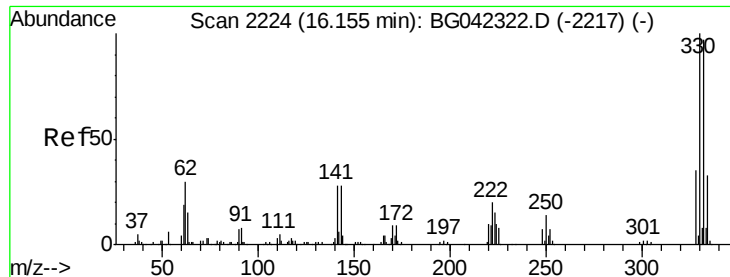
| Tot Ion   | 82    | Resp  | 385570 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 49.7  | 41.0  | 61.4   |
| 54        | 45.6  | 38.0  | 57.0   |



#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.66 min Scan# 1970  
 Delta R.T. -0.00 min  
 Lab File: BG042392.D  
 Acq: 21 Aug 2019 20:38

| Tgt Ion   | 164   | Resp  | 210857 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 100.3 | 80.6  | 120.8  |
| 160       | 43.2  | 35.7  | 53.5   |





#42

2,4,6-Tribromophenol

Concen: 140.871 ng

RT: 16.16 min Scan# 2225

Delta R.T. 0.01 min

Lab File: BG042392.D

Acq: 21 Aug 2019 20:38

Instrument :

BNA\_G

ClientSampleId :

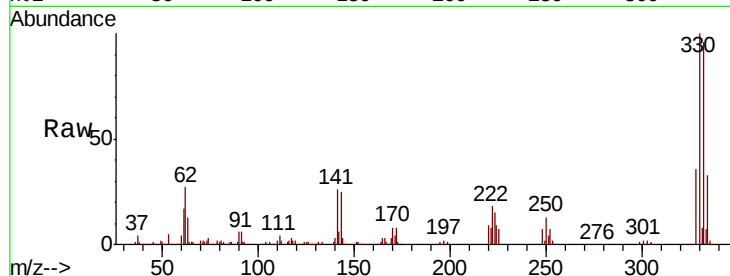
Tot Ion:330 Resp: 404556

Ion Ratio Lower Upper

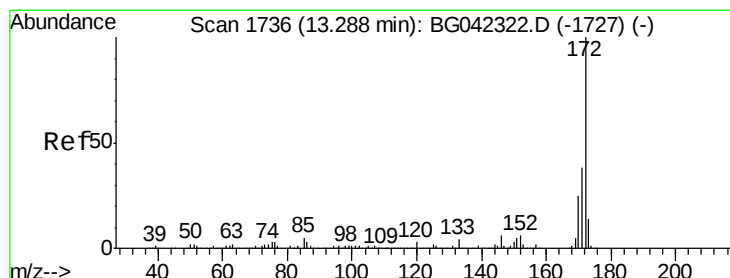
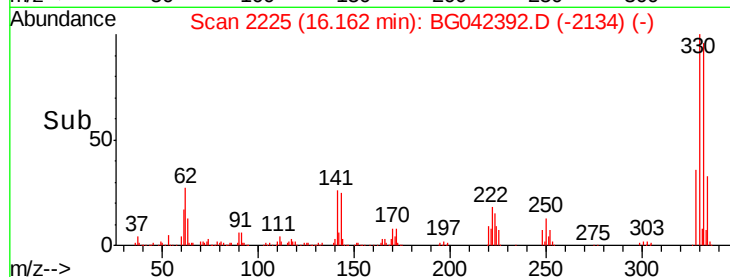
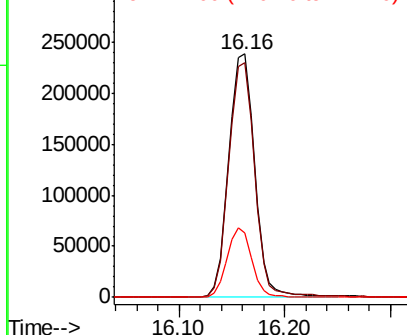
330 100

332 96.9 76.9 115.3

141 27.6 21.8 32.6



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: 101.127 ng

RT: 13.28 min Scan# 1735

Delta R.T. -0.00 min

Lab File: BG042392.D

Acq: 21 Aug 2019 20:38

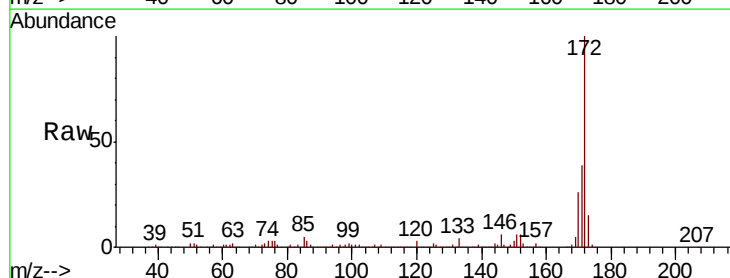
Tgt Ion:172 Resp: 1260123

Ion Ratio Lower Upper

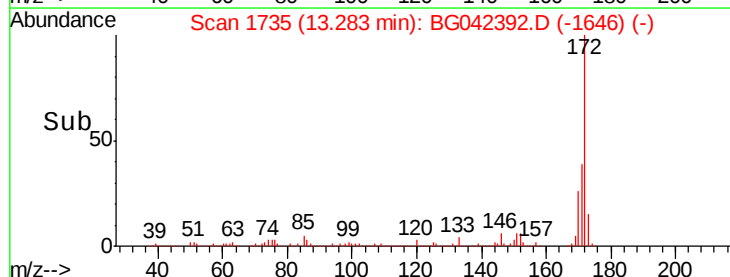
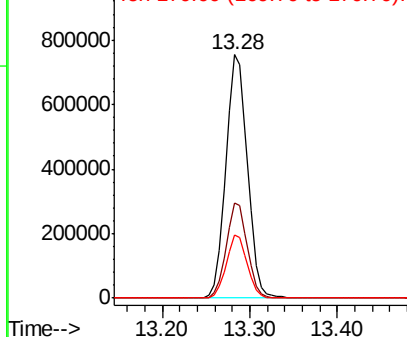
172 100

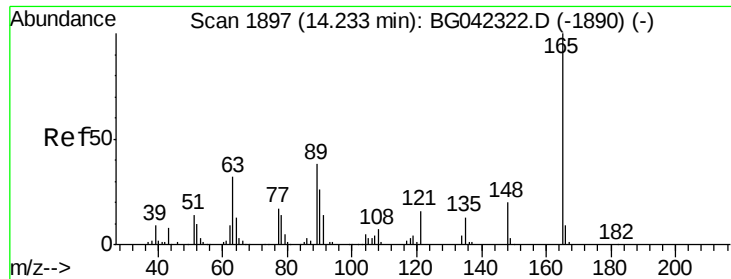
171 39.3 30.3 45.5

170 25.7 20.0 30.0



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

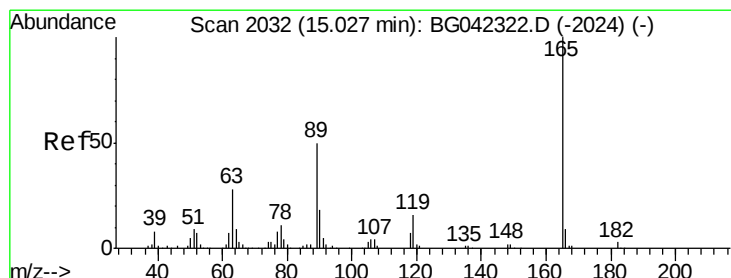
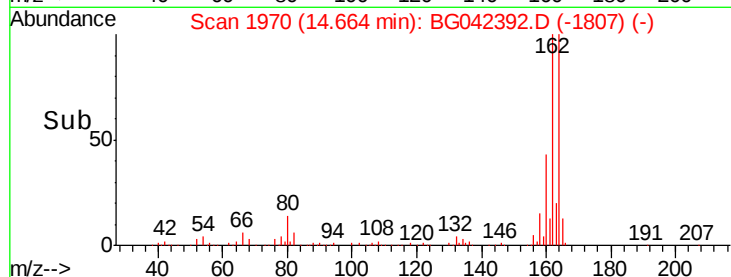
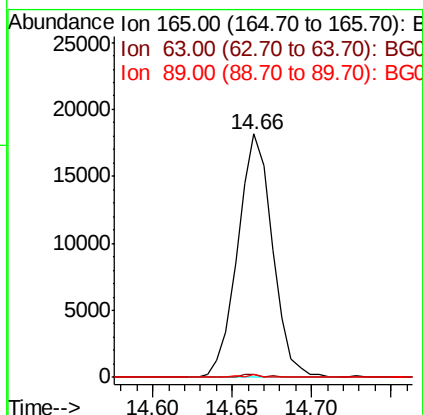
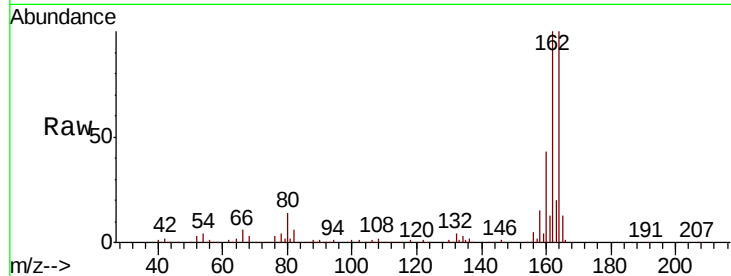




#51  
 2,6-Dinitrotoluene  
 Concen: 7.876 ng  
 RT: 14.66 min Scan# 1970  
 Delta R.T. 0.43 min  
 Lab File: BG042392.D  
 Acq: 21 Aug 2019 20:38

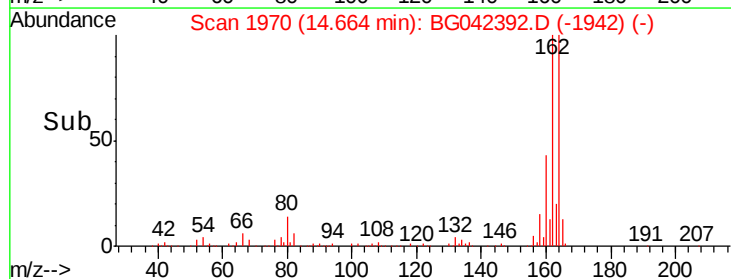
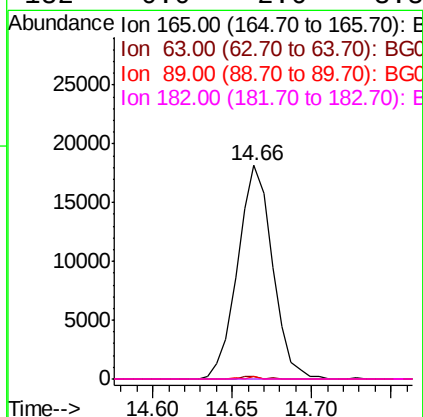
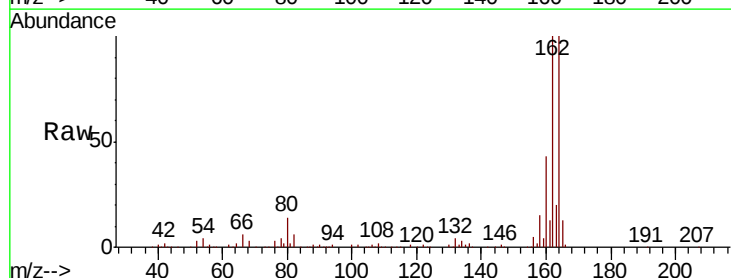
Instrument :  
 BNA\_G  
 ClientSampled :

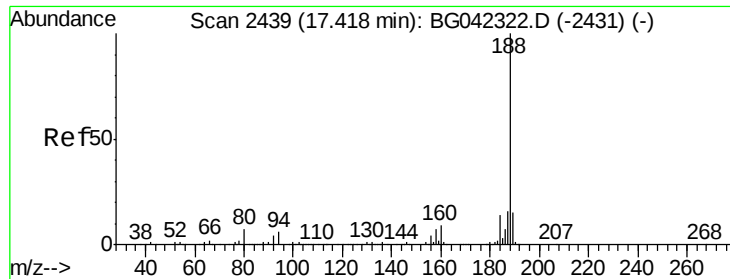
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.1   | 28.2  | 42.2# |
| 89      | 1.2   | 30.0  | 45.0# |



#57  
 2,4-Dinitrotoluene  
 Concen: 5.633 ng  
 RT: 14.66 min Scan# 1970  
 Delta R.T. -0.36 min  
 Lab File: BG042392.D  
 Acq: 21 Aug 2019 20:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.1   | 22.4  | 33.6# |
| 89      | 1.2   | 40.2  | 60.2# |
| 182     | 0.0   | 2.6   | 3.8#  |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.41 min Scan# 2438

Delta R.T. -0.00 min

Lab File: BG042392.D

Acq: 21 Aug 2019 20:38

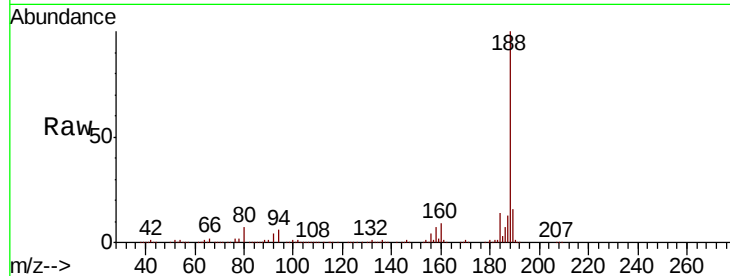
Instrument :

BNA\_G

ClientSampleId :

Tot Ion:188 Resp: 461877

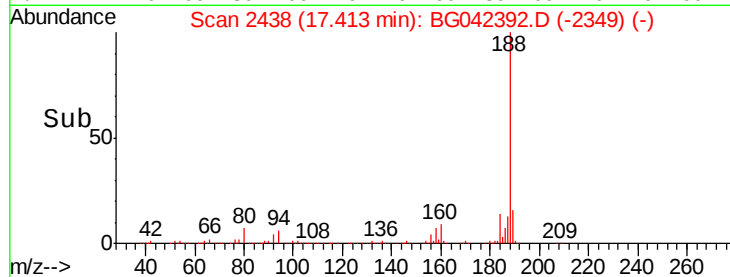
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 188 | 100   |       |       |
| 94  | 6.3   | 4.9   | 7.3   |
| 80  | 6.6   | 5.4   | 8.0   |



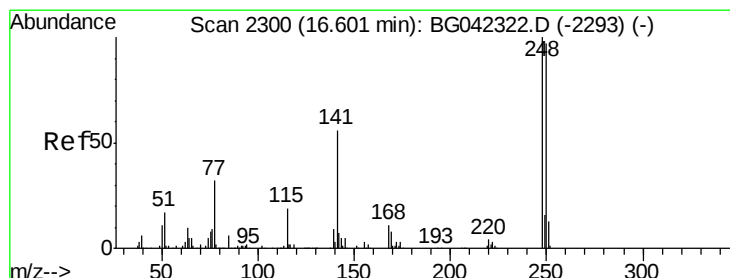
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



Time-->



#67

4-Bromophenyl-phenylether

Concen: 4.675 ng

RT: 16.16 min Scan# 2224

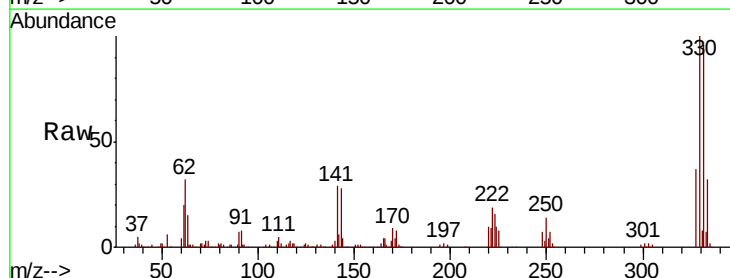
Delta R.T. -0.45 min

Lab File: BG042392.D

Acq: 21 Aug 2019 20:38

Tgt Ion:248 Resp: 27479

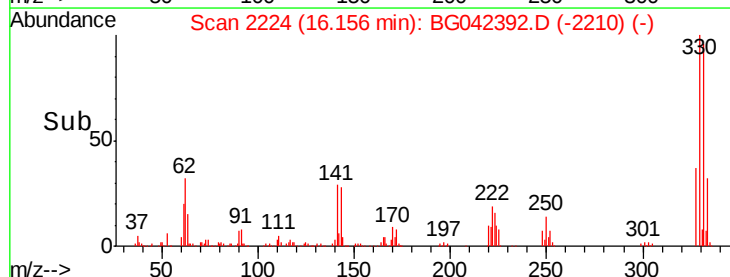
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 248 | 100   |       |        |
| 250 | 199.3 | 78.0  | 117.0# |
| 141 | 407.2 | 44.9  | 67.3#  |



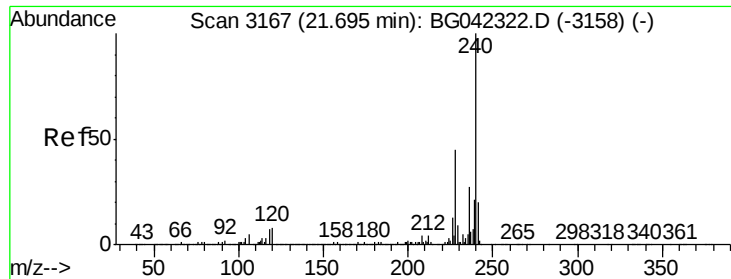
Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



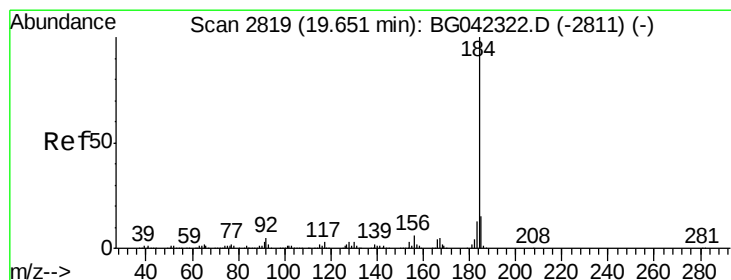
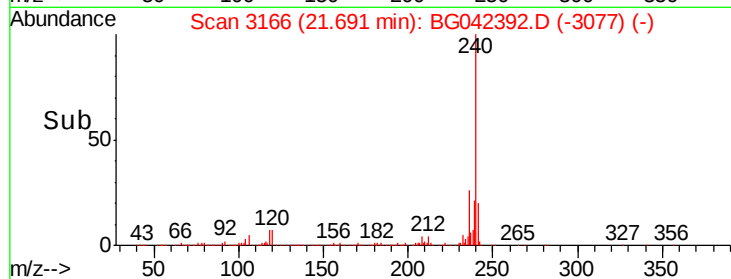
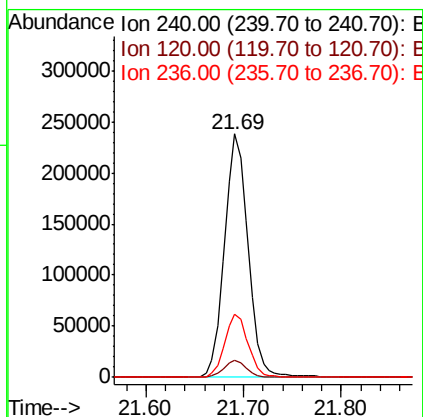
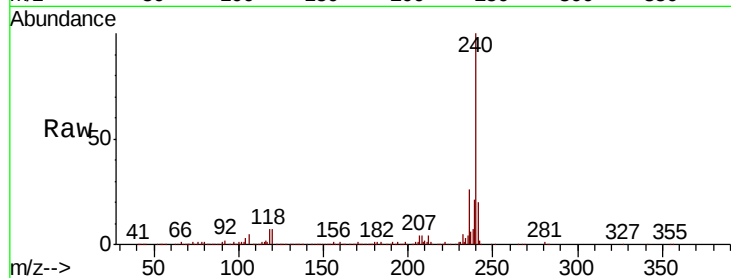
Time-->



#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.69 min Scan# 3166  
 Delta R.T. -0.00 min  
 Lab File: BG042392.D  
 Acq: 21 Aug 2019 20:38

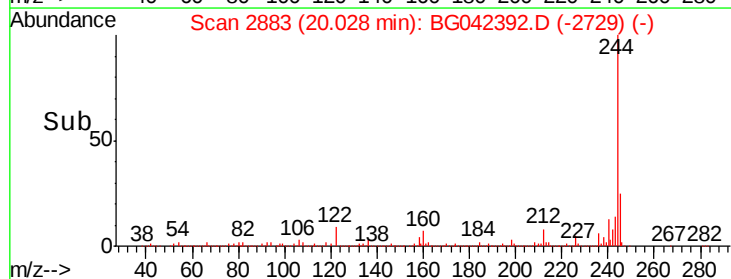
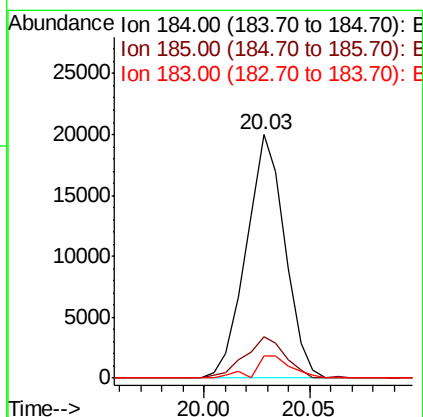
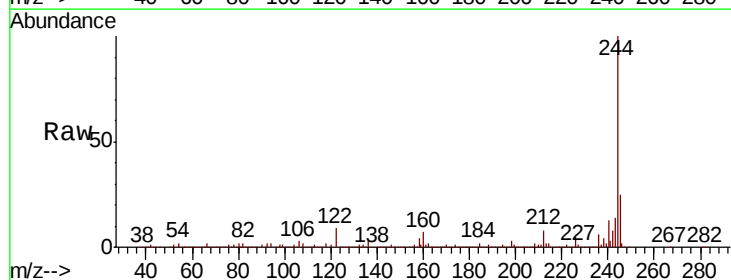
Instrument :  
 BNA\_G  
 ClientSampleId :

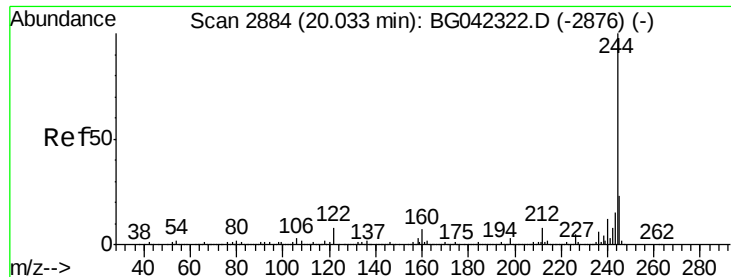
Tot Ion:240 Resp: 399063  
 Ion Ratio Lower Upper  
 240 100  
 120 6.9 6.0 9.0  
 236 25.7 21.6 32.4



#77  
 Benzidine  
 Concen: 2.396 ng  
 RT: 20.03 min Scan# 2883  
 Delta R.T. 0.38 min  
 Lab File: BG042392.D  
 Acq: 21 Aug 2019 20:38

Tgt Ion:184 Resp: 25352  
 Ion Ratio Lower Upper  
 184 100  
 185 16.8 11.8 17.6  
 183 9.1 10.6 15.8#





#79

Terphenyl-d14

Concen: 99.621 ng

RT: 20.03 min Scan# 2883

Delta R.T. -0.00 min

Lab File: BG042392.D

Acq: 21 Aug 2019 20:38

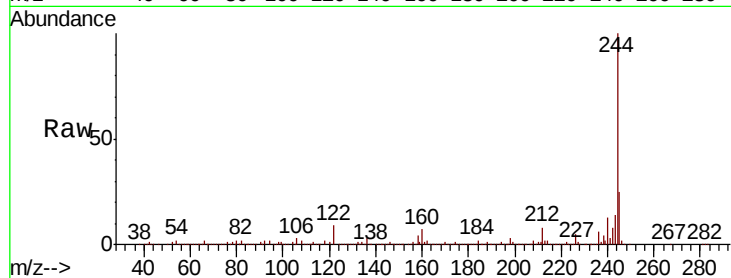
Instrument :

BNA\_G

ClientSampleId :

Tot Ion:244 Resp: 1815069

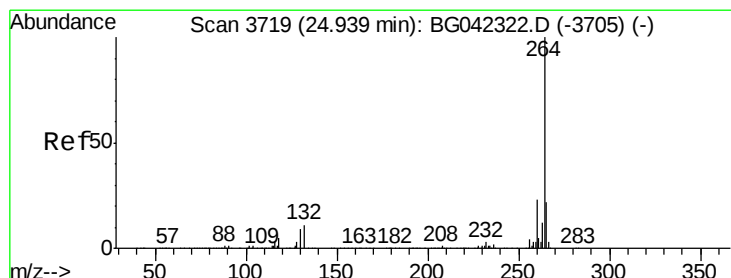
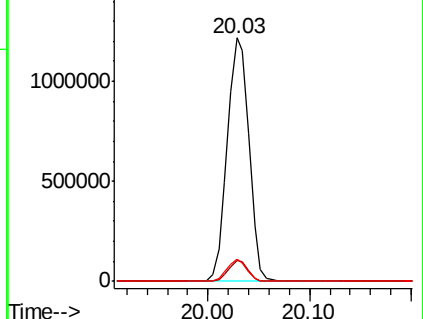
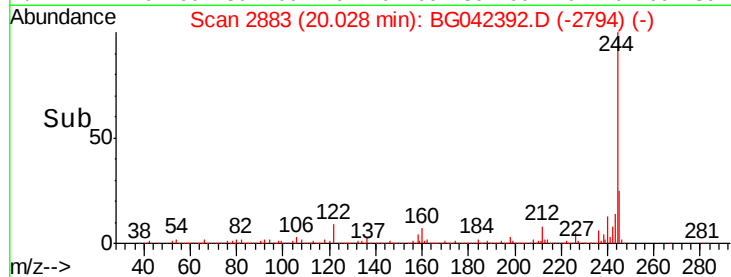
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 8.4   | 6.4   | 9.6   |
| 122 | 9.4   | 6.6   | 10.0  |



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 24.94 min Scan# 3719

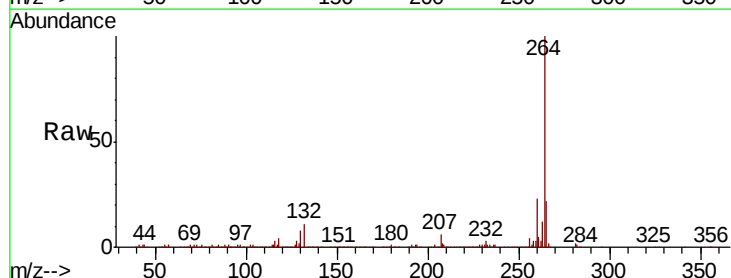
Delta R.T. 0.00 min

Lab File: BG042392.D

Acq: 21 Aug 2019 20:38

Tgt Ion:264 Resp: 465899

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.3  | 18.4  | 27.6  |
| 265 | 22.1  | 17.4  | 26.0  |



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

