

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG082319\  
 Data File : BG042469.D  
 Acq On : 24 Aug 2019 15:59  
 Operator : HP/JU  
 Sample : K4439-32  
 Misc :  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Aug 26 05:02:19 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082219.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 22 14:29:15 2019  
 Response via : Initial Calibration

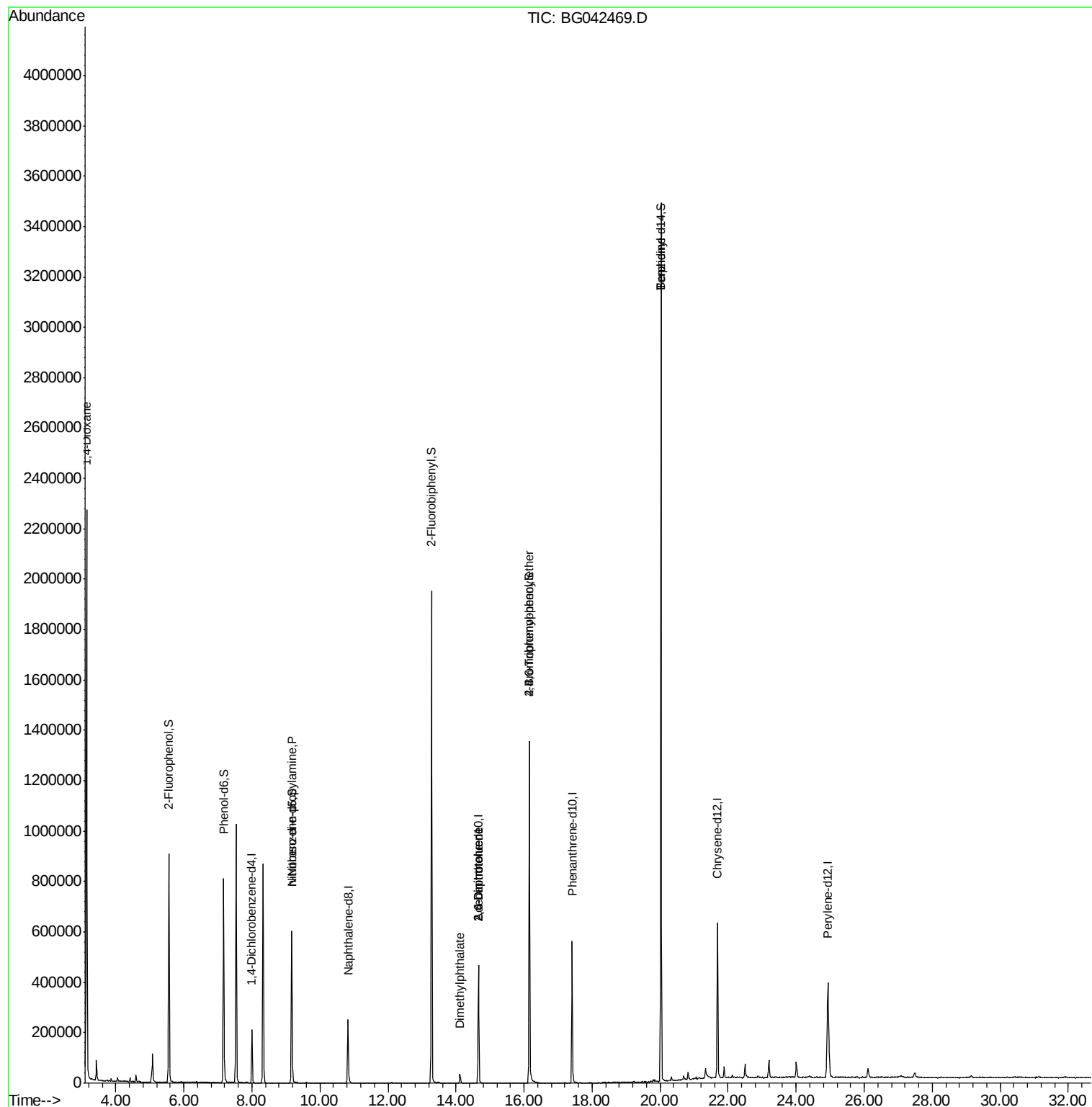
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.00  | 152  | 68556    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.82 | 136  | 268974   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.66 | 164  | 183580   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.41 | 188  | 387080   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.69 | 240  | 384183   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 24.93 | 264  | 440464   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.56  | 112  | 455910   | 134.69 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.17  | 99   | 556392   | 121.69 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.17  | 82   | 410811   | 105.54 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.16 | 330  | 329525   | 126.29 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.28 | 172  | 1139946  | 105.02 | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.02 | 244  | 1750448  | 98.50  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 2) 1,4-Dioxane                 | 3.14  | 88   | 25134    | 17.792 | ng    | # 1      |
| 19) n-Nitroso-di-n-propylamine | 9.17  | 70   | 51794    | 17.485 | ng    | # 73     |
| 50) Dimethylphthalate          | 14.11 | 163  | 44431    | 3.354  | ng    | # 97     |
| 51) 2,6-Dinitrotoluene         | 14.66 | 165  | 23554    | 7.672  | ng    | # 37     |
| 57) 2,4-Dinitrotoluene         | 14.66 | 165  | 23554    | 5.357  | ng    | # 39     |
| 67) 4-Bromophenyl-phenylether  | 16.15 | 248  | 23477    | 4.782  | ng    | # 1      |
| 77) Benzidine                  | 20.02 | 184  | 24697    | 2.242  | ng    | # 90     |

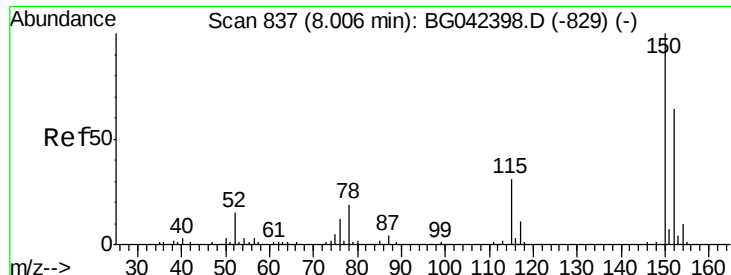
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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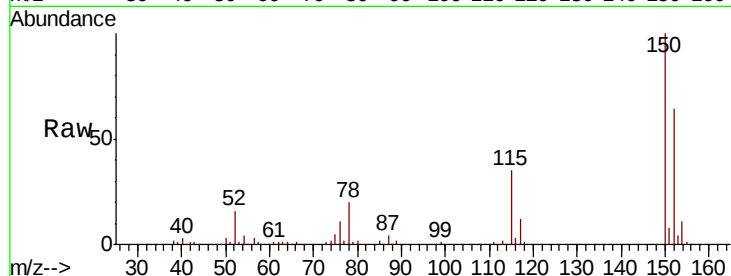


#1

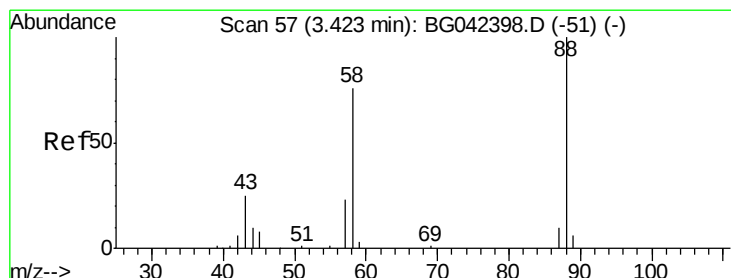
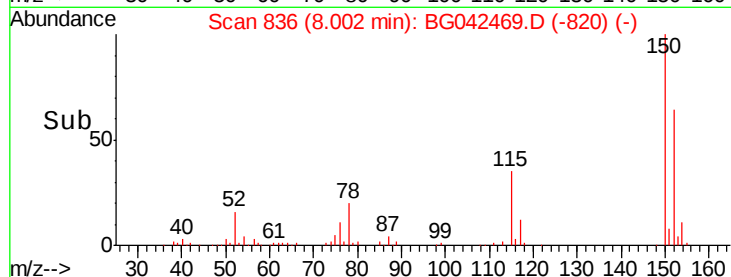
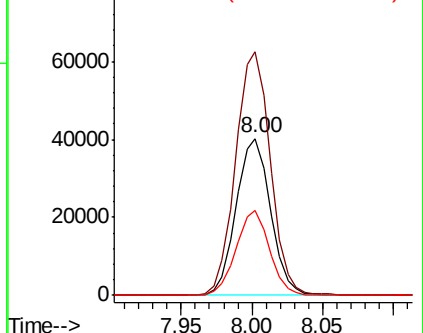
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.00 min Scan# 836  
 Delta R.T. -0.00 min  
 Lab File: BG042469.D  
 Acq: 24 Aug 2019 15:59

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:152 Resp: 68556  
 Ion Ratio Lower Upper  
 152 100  
 150 155.4 125.4 188.0  
 115 54.6 38.5 57.7



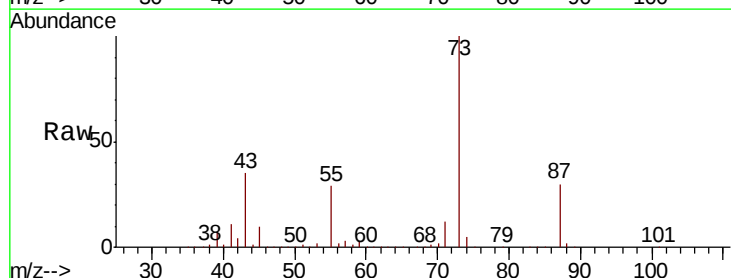
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



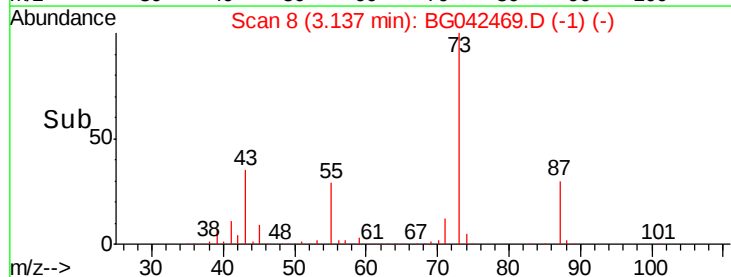
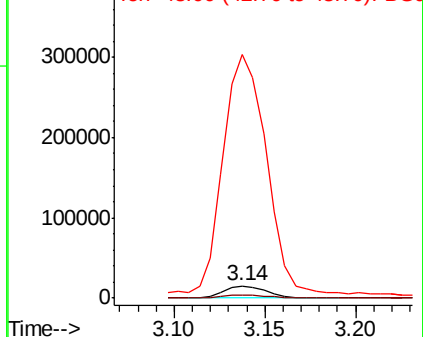
#2

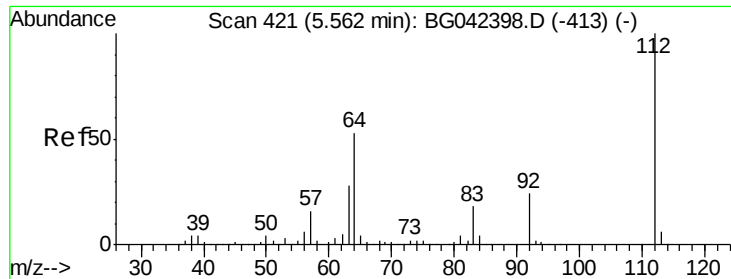
1,4-Dioxane  
 Concen: 17.792 ng  
 RT: 3.14 min Scan# 8  
 Delta R.T. -0.29 min  
 Lab File: BG042469.D  
 Acq: 24 Aug 2019 15:59

Tgt Ion: 88 Resp: 25134  
 Ion Ratio Lower Upper  
 88 100  
 58 25.9 58.3 87.5#  
 43 1992.5 20.2 30.2#



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: 134.686 ng

RT: 5.56 min Scan# 420

Delta R.T. -0.00 min

Lab File: BG042469.D

Acq: 24 Aug 2019 15:59

Instrument :

BNA\_G

ClientSampled :

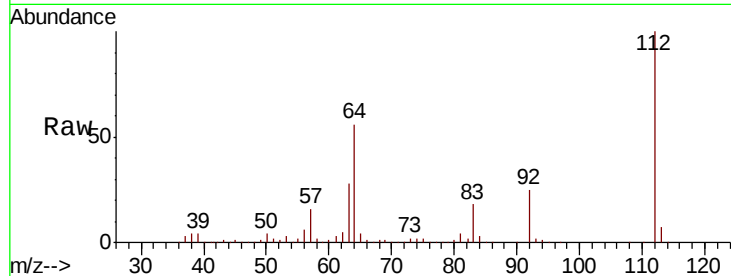
Tot Ion:112 Resp: 455910

Ion Ratio Lower Upper

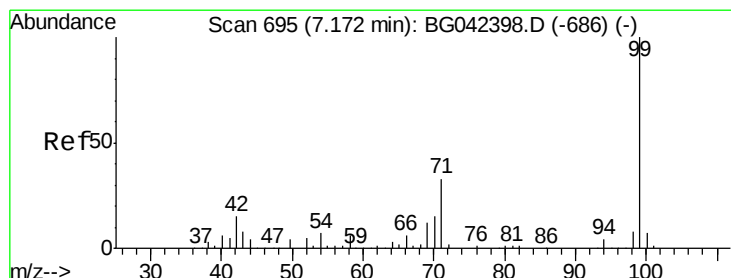
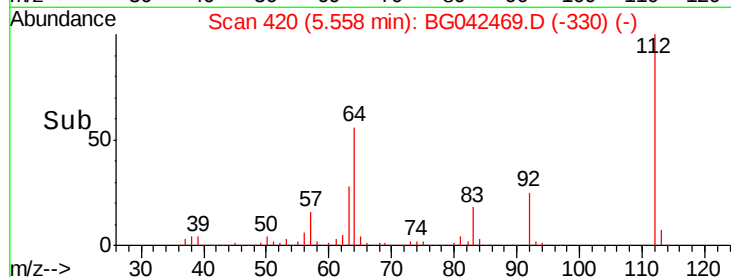
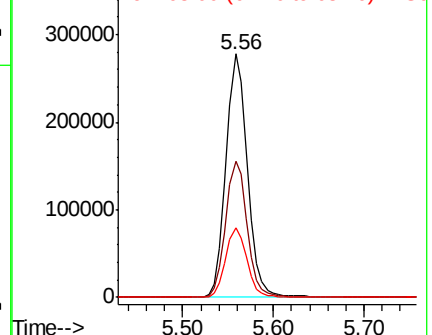
112 100

64 56.0 42.8 64.2

63 28.4 22.7 34.1



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: 121.686 ng

RT: 7.17 min Scan# 694

Delta R.T. -0.00 min

Lab File: BG042469.D

Acq: 24 Aug 2019 15:59

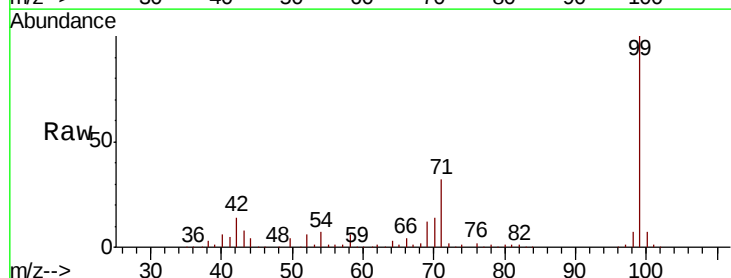
Tgt Ion: 99 Resp: 556392

Ion Ratio Lower Upper

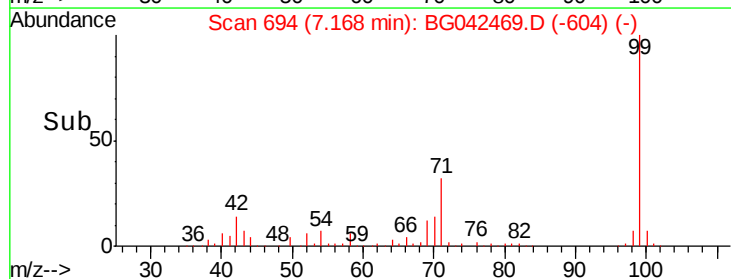
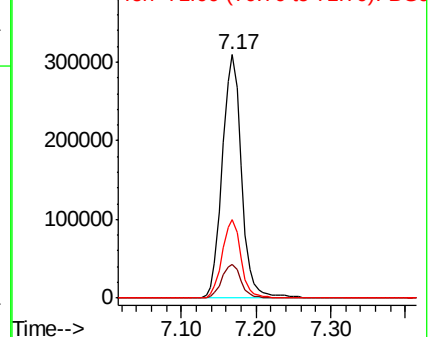
99 100

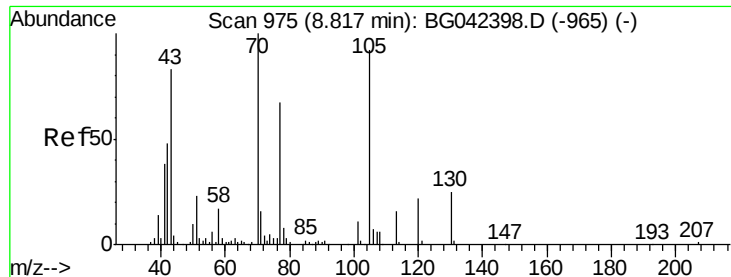
42 14.0 12.0 18.0

71 32.3 26.3 39.5



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: 17.485 ng

RT: 9.17 min Scan# 1035

Delta R.T. 0.35 min

Lab File: BG042469.D

Acq: 24 Aug 2019 15:59

Instrument :

BNA\_G

ClientSampled :

Tot Ion: 70 Resp: 51794

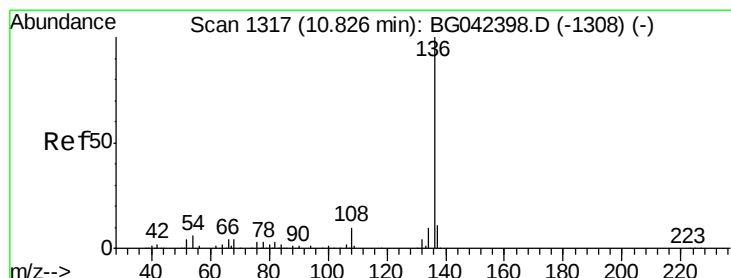
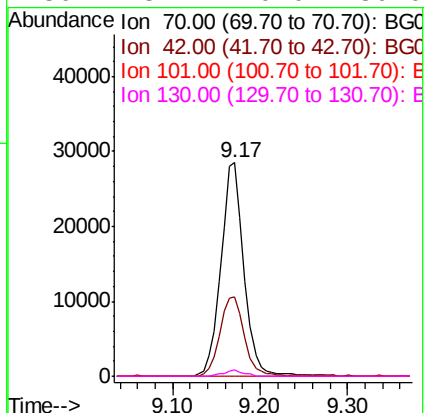
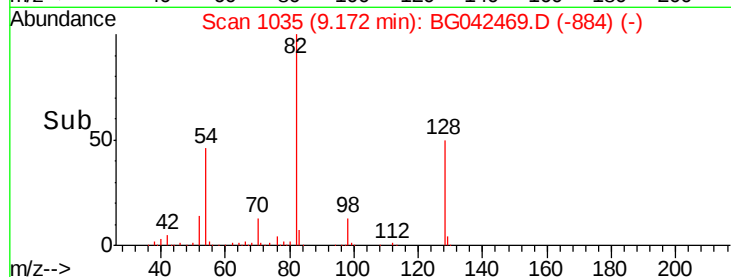
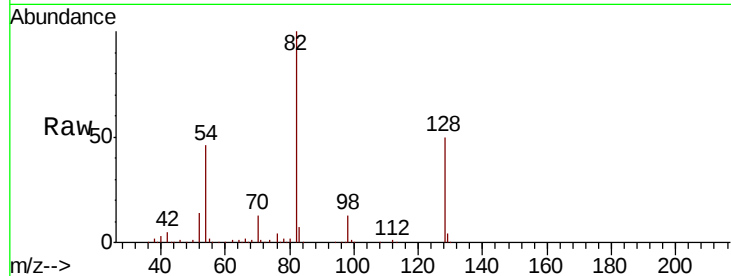
Ion Ratio Lower Upper

70 100

42 36.9 38.8 58.2#

101 0.0 9.0 13.6#

130 3.2 20.0 30.0#



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.82 min Scan# 1316

Delta R.T. -0.00 min

Lab File: BG042469.D

Acq: 24 Aug 2019 15:59

Tgt Ion: 136 Resp: 268974

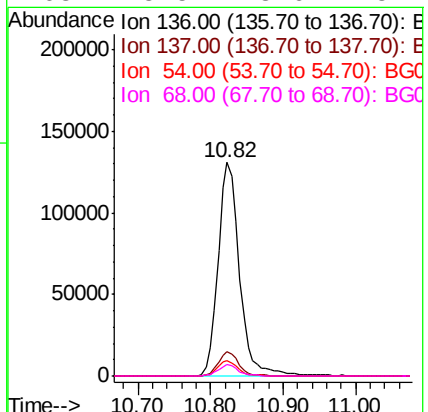
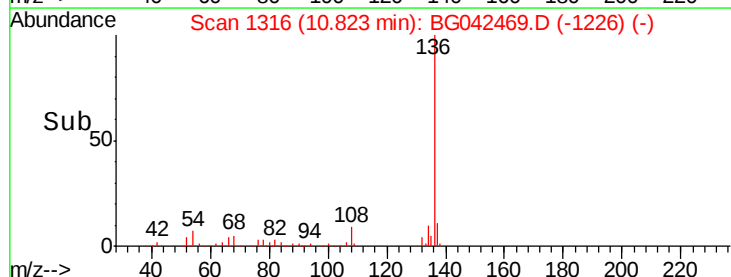
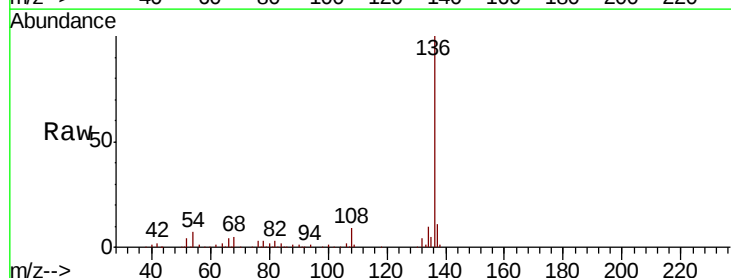
Ion Ratio Lower Upper

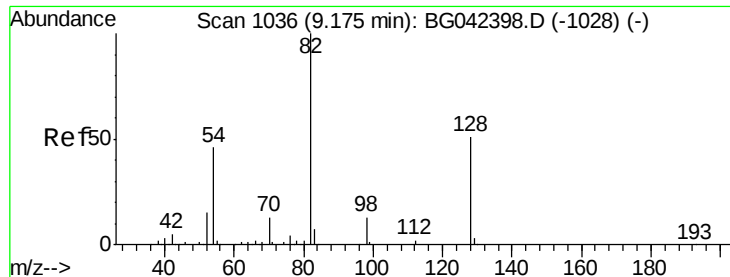
136 100

137 11.5 8.7 13.1

54 7.0 4.9 7.3

68 5.5 3.6 5.4#

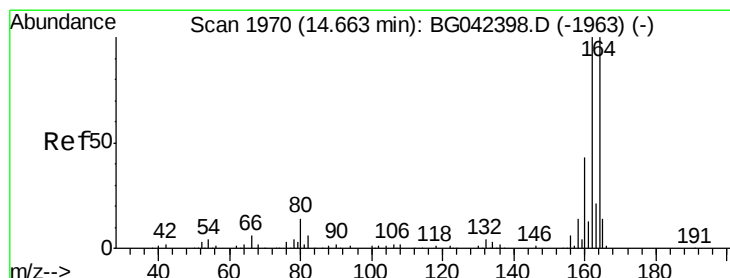
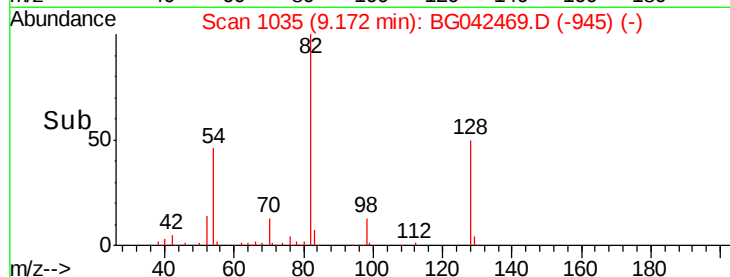
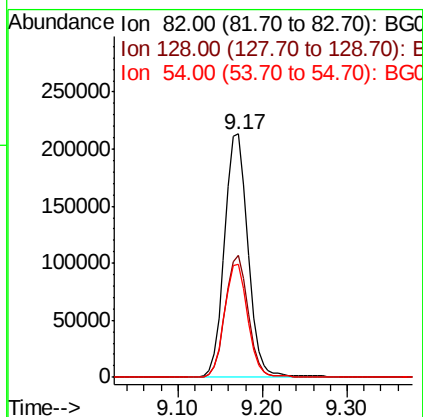
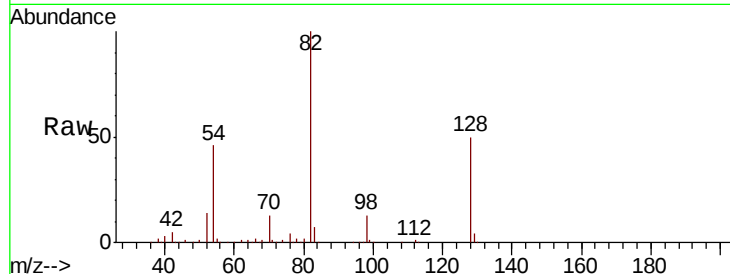




#23  
Nitrobenzene-d5  
Concen: 105.544 ng  
RT: 9.17 min Scan# 1035  
Delta R.T. -0.00 min  
Lab File: BG042469.D  
Acq: 24 Aug 2019 15:59

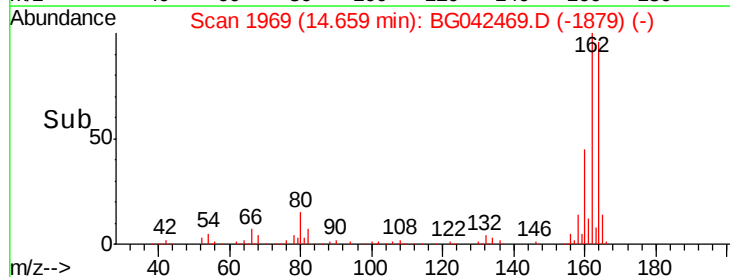
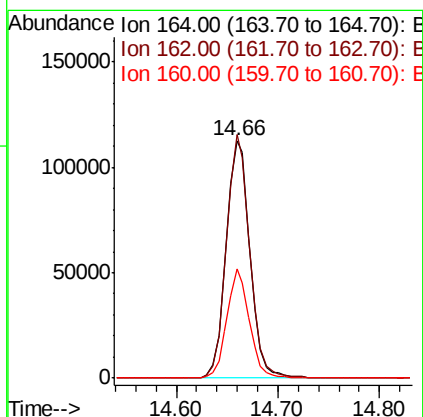
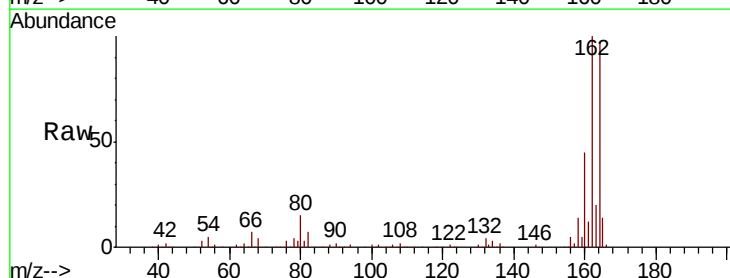
Instrument :  
BNA\_G  
ClientSampleId :

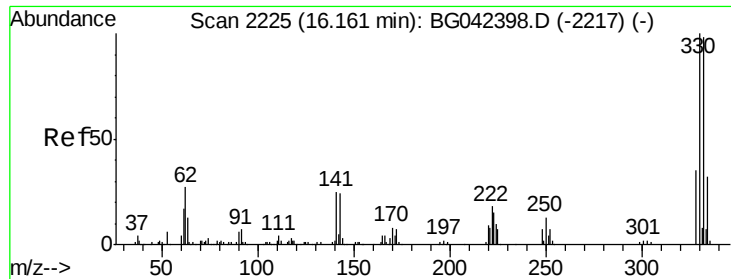
Tot Ion: 82 Resp: 410811  
Ion Ratio Lower Upper  
82 100  
128 49.9 40.7 61.1  
54 46.3 36.3 54.5



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.66 min Scan# 1969  
Delta R.T. -0.00 min  
Lab File: BG042469.D  
Acq: 24 Aug 2019 15:59

Tgt Ion: 164 Resp: 183580  
Ion Ratio Lower Upper  
164 100  
162 102.6 79.9 119.9  
160 45.9 34.3 51.5

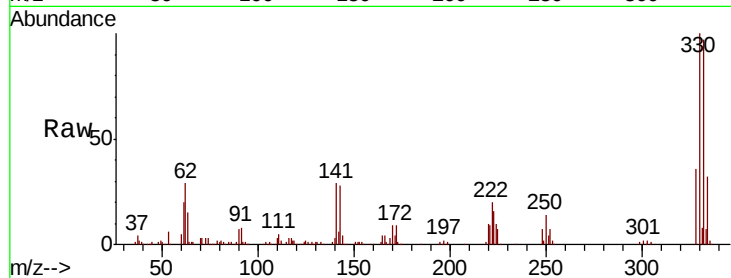




#42  
 2,4,6-Tribromophenol  
 Concen: 126.289 ng  
 RT: 16.16 min Scan# 2224  
 Delta R.T. -0.00 min  
 Lab File: BG042469.D  
 Acq: 24 Aug 2019 15:59

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.0  | 77.4  | 116.0 |
| 141     | 31.0  | 21.4  | 32.0  |

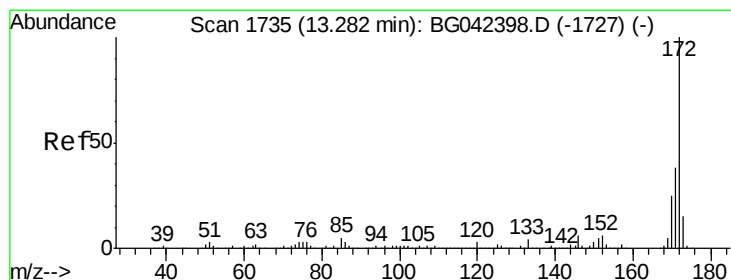
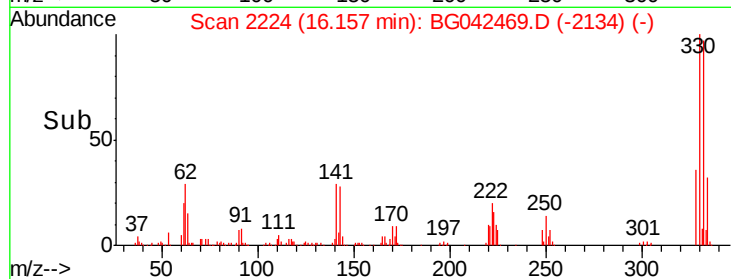
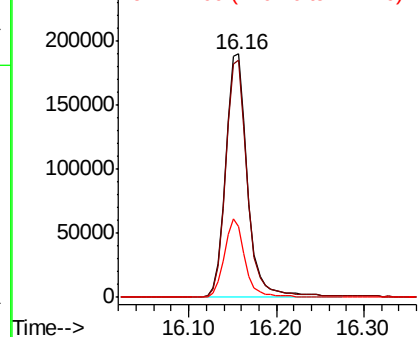


Abundance

Ion 329.80 (329.50 to 330.50): E

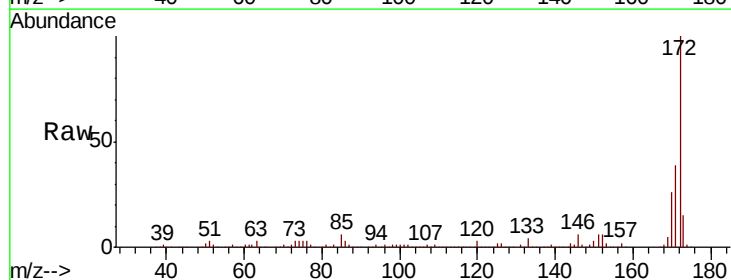
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 105.021 ng  
 RT: 13.28 min Scan# 1734  
 Delta R.T. -0.00 min  
 Lab File: BG042469.D  
 Acq: 24 Aug 2019 15:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.9  | 30.5  | 45.7  |
| 170     | 25.6  | 20.2  | 30.2  |

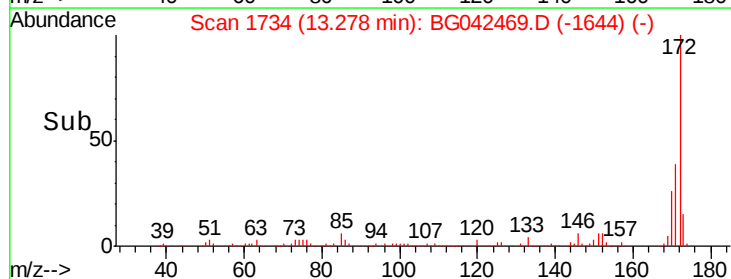
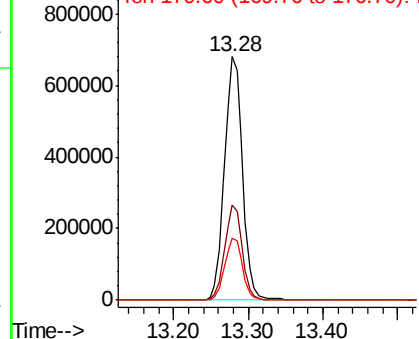


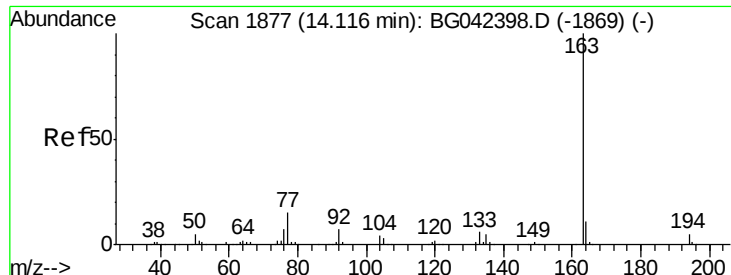
Abundance

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





#50

Dimethylphthalate

Concen: 3.354 ng

RT: 14.11 min Scan# 1876

Delta R.T. -0.00 min

Lab File: BG042469.D

Acq: 24 Aug 2019 15:59

Instrument :

BNA\_G

ClientSampleId :

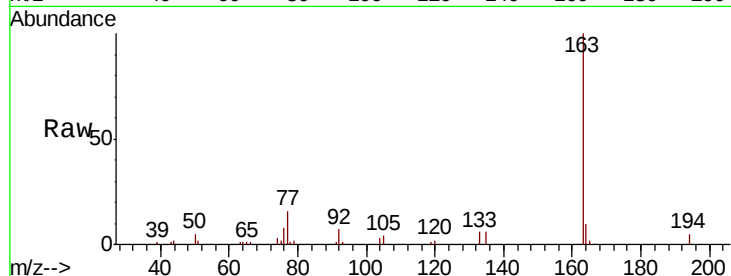
Tot Ion:163 Resp: 44431

Ion Ratio Lower Upper

163 100

194 5.5 4.2 6.2

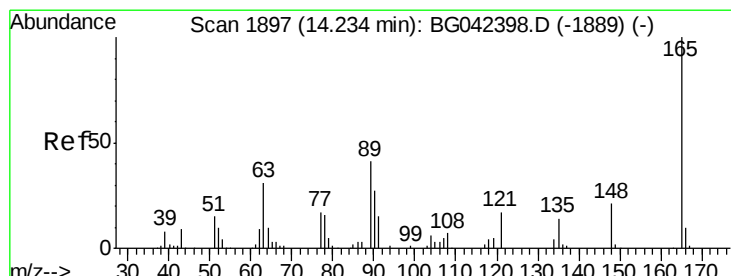
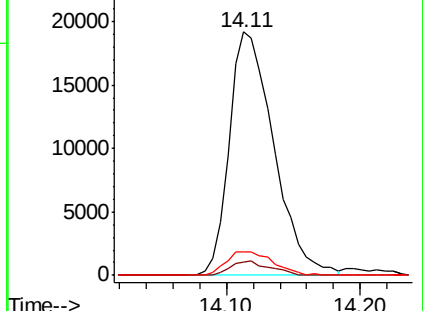
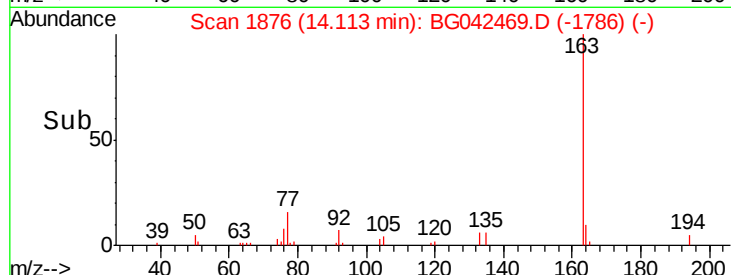
164 9.7 8.8 13.2



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51

2,6-Dinitrotoluene

Concen: 7.672 ng

RT: 14.66 min Scan# 1969

Delta R.T. 0.43 min

Lab File: BG042469.D

Acq: 24 Aug 2019 15:59

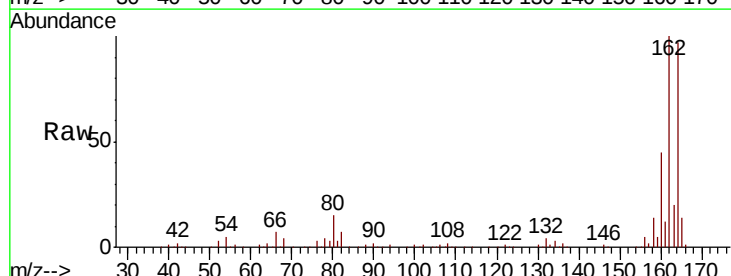
Tgt Ion:165 Resp: 23554

Ion Ratio Lower Upper

165 100

63 1.5 30.6 45.8#

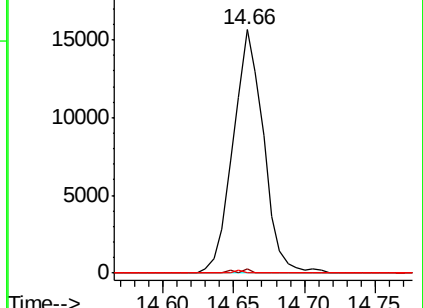
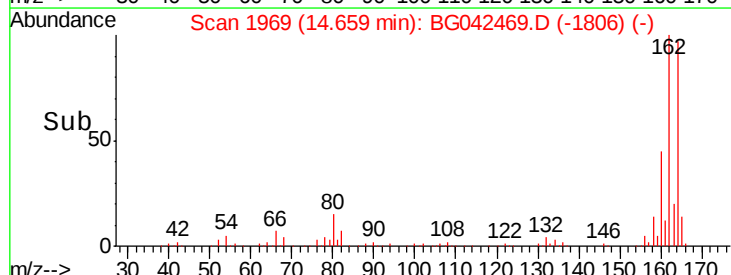
89 0.0 32.6 49.0#

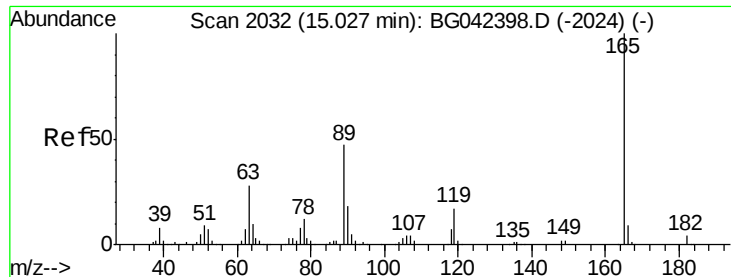


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

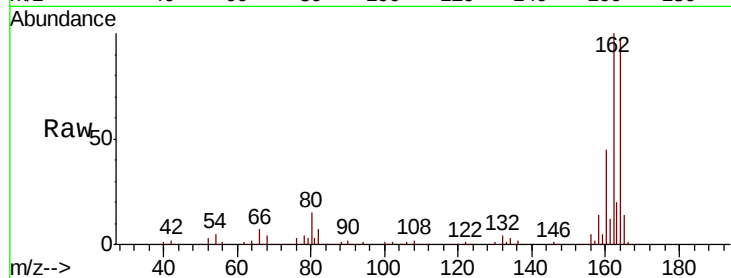




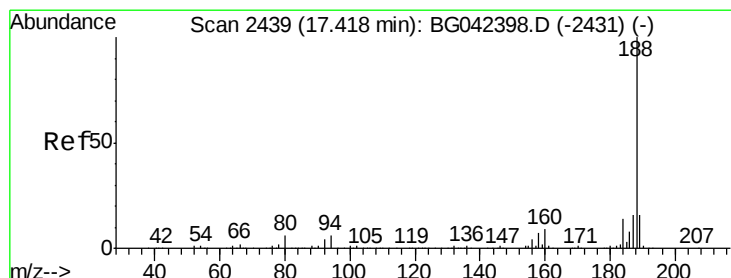
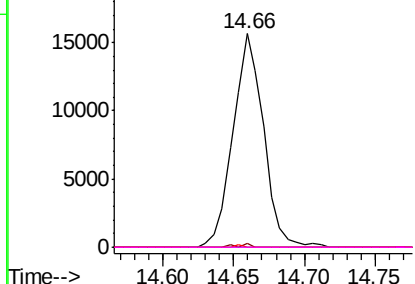
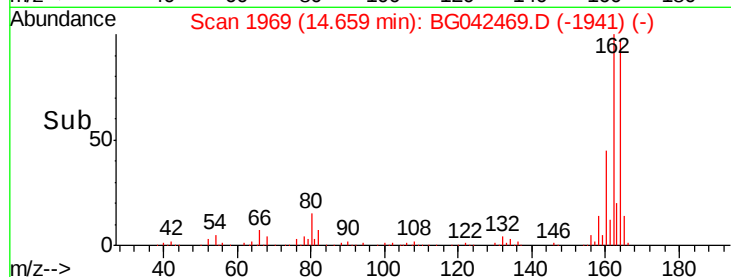
#57  
 2,4-Dinitrotoluene  
 Concen: 5.357 ng  
 RT: 14.66 min Scan# 1969  
 Delta R.T. -0.37 min  
 Lab File: BG042469.D  
 Acq: 24 Aug 2019 15:59

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.5   | 22.5  | 33.7# |
| 89      | 0.0   | 37.8  | 56.6# |
| 182     | 0.0   | 3.0   | 4.4#  |

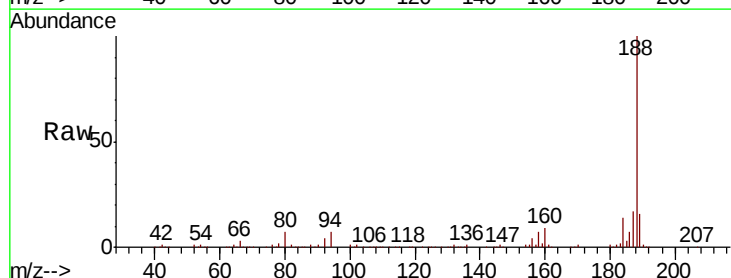


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 89.00 (88.70 to 89.70): BGC  
 Ion 182.00 (181.70 to 182.70): E

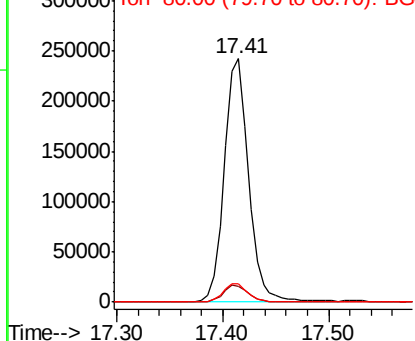
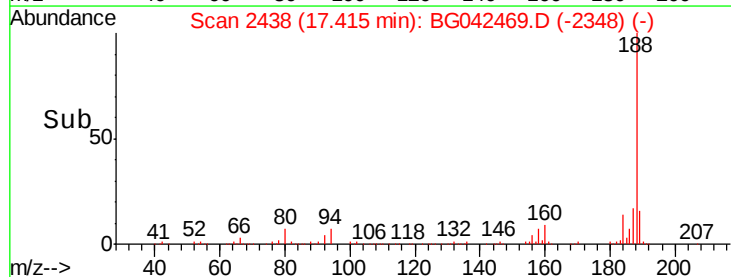


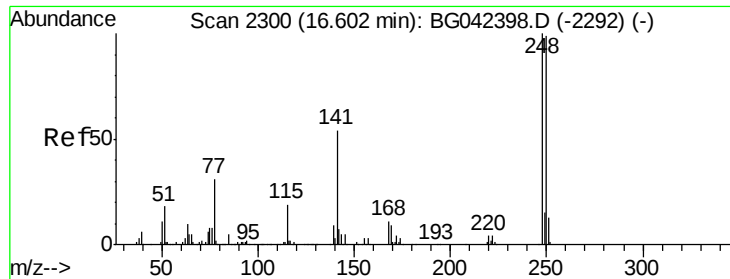
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.41 min Scan# 2438  
 Delta R.T. -0.00 min  
 Lab File: BG042469.D  
 Acq: 24 Aug 2019 15:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 6.5   | 4.5   | 6.7   |
| 80      | 7.4   | 4.9   | 7.3#  |



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

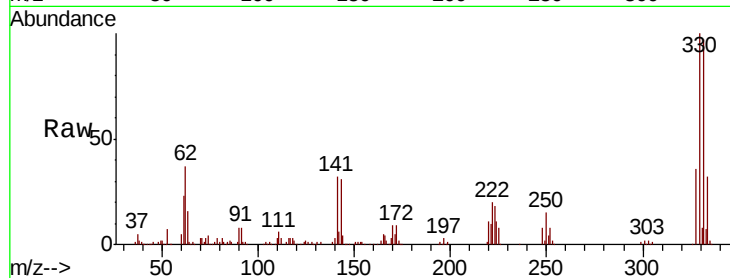




#67  
 4-Bromophenyl-phenylether  
 Concen: 4.782 ng  
 RT: 16.15 min Scan# 2223  
 Delta R.T. -0.45 min  
 Lab File: BG042469.D  
 Acq: 24 Aug 2019 15:59

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 197.5 | 78.9  | 118.3# |
| 141     | 430.8 | 43.3  | 64.9#  |

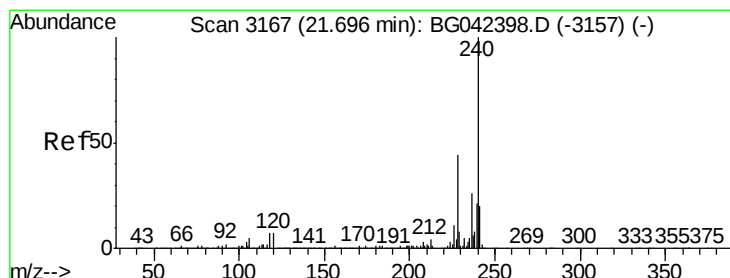
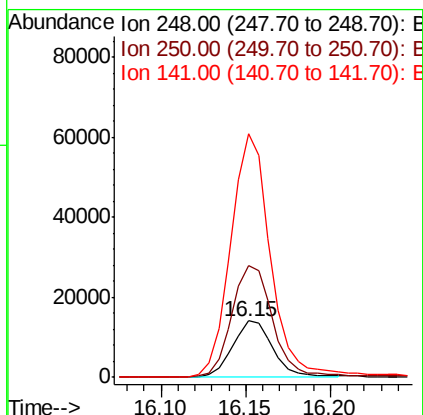
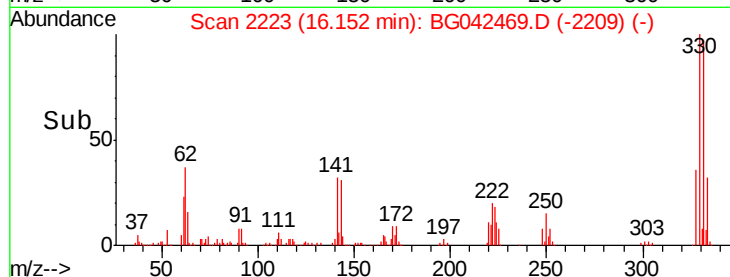


Abundance

Ion 248.00 (247.70 to 248.70): E

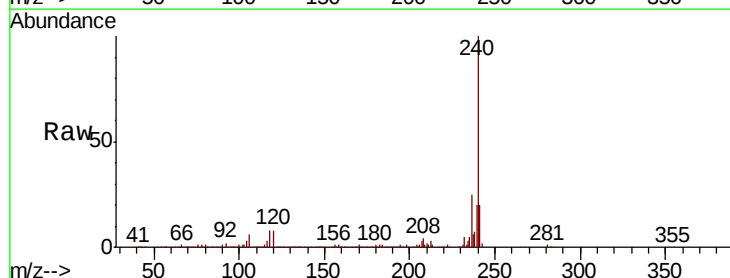
Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.69 min Scan# 3165  
 Delta R.T. -0.01 min  
 Lab File: BG042469.D  
 Acq: 24 Aug 2019 15:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 8.3   | 5.7   | 8.5   |
| 236     | 25.4  | 21.0  | 31.4  |

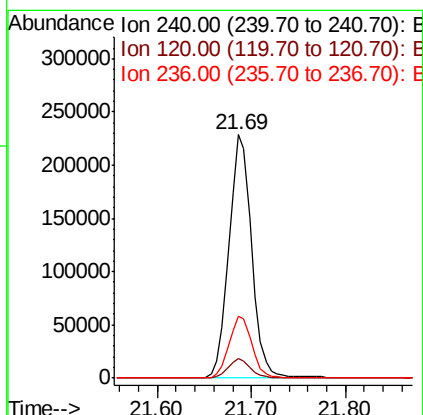
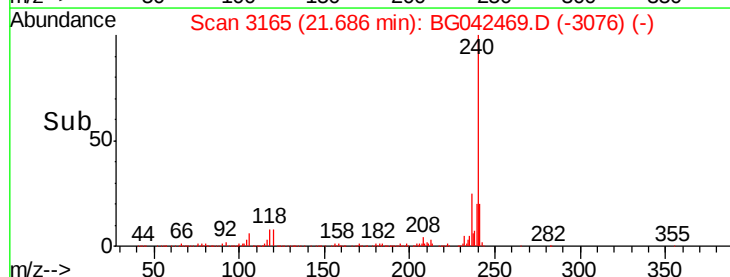


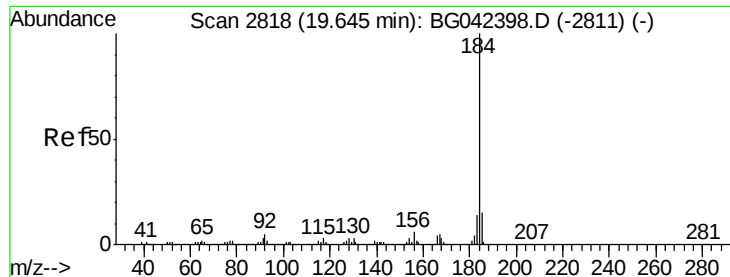
Abundance

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: 2.242 ng

RT: 20.02 min Scan# 2882

Delta R.T. 0.38 min

Lab File: BG042469.D

Acq: 24 Aug 2019 15:59

Instrument :

BNA\_G

ClientSampled :

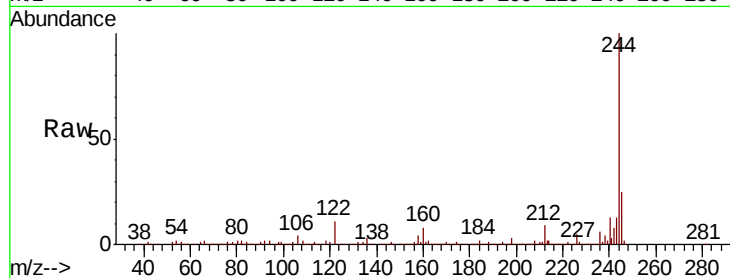
Tot Ion:184 Resp: 24697

Ion Ratio Lower Upper

184 100

185 18.8 12.2 18.4#

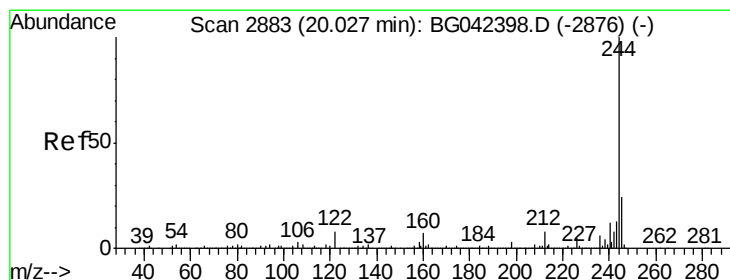
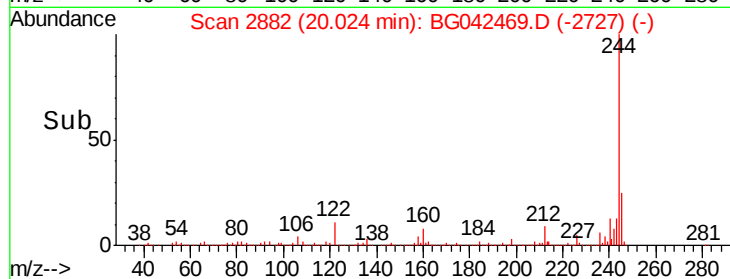
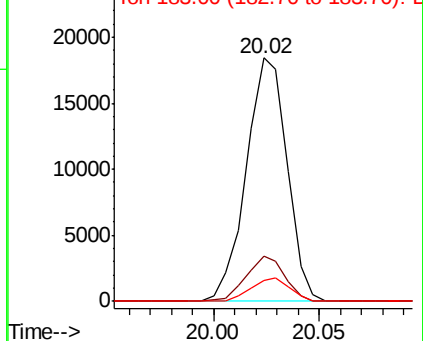
183 8.6 10.8 16.2#



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: 98.503 ng

RT: 20.02 min Scan# 2882

Delta R.T. -0.00 min

Lab File: BG042469.D

Acq: 24 Aug 2019 15:59

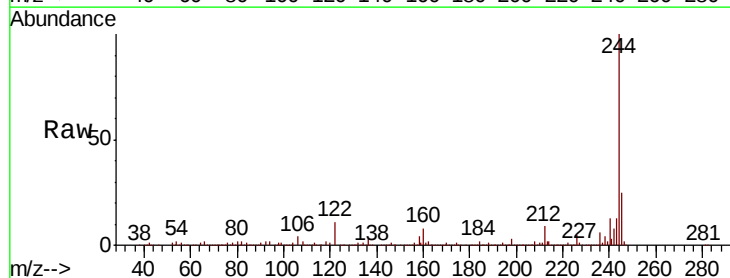
Tgt Ion:244 Resp: 1750448

Ion Ratio Lower Upper

244 100

212 8.5 6.0 9.0

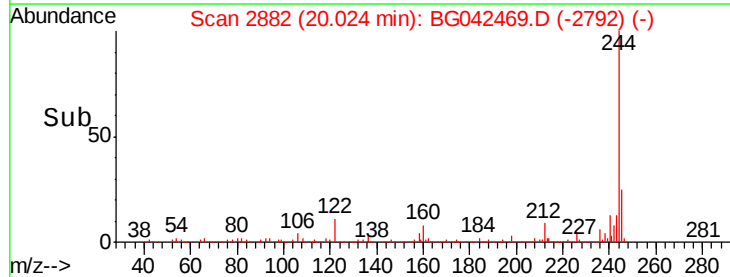
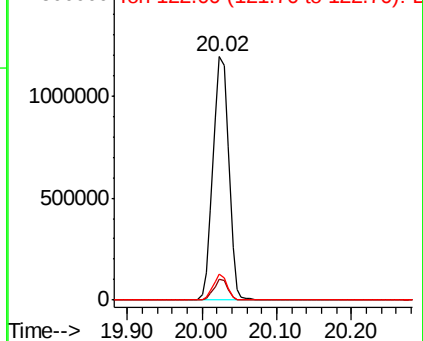
122 10.5 6.7 10.1#

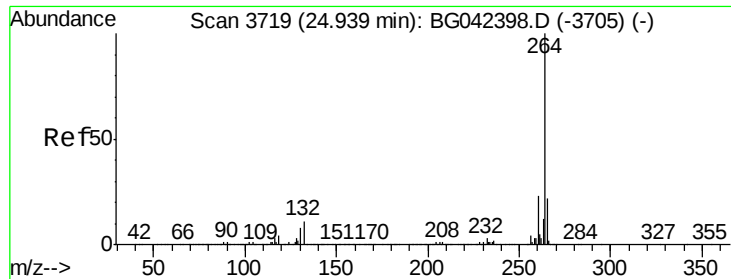


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#87  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 24.93 min Scan# 3717  
 Delta R.T. -0.01 min  
 Lab File: BG042469.D  
 Acq: 24 Aug 2019 15:59

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.7  | 18.5  | 27.7  |
| 265     | 22.6  | 17.6  | 26.4  |

