

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG082319\  
 Data File : BG042457.D  
 Acq On : 24 Aug 2019 8:19  
 Operator : HP/JU  
 Sample : K4477-11  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Aug 26 04:59:13 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

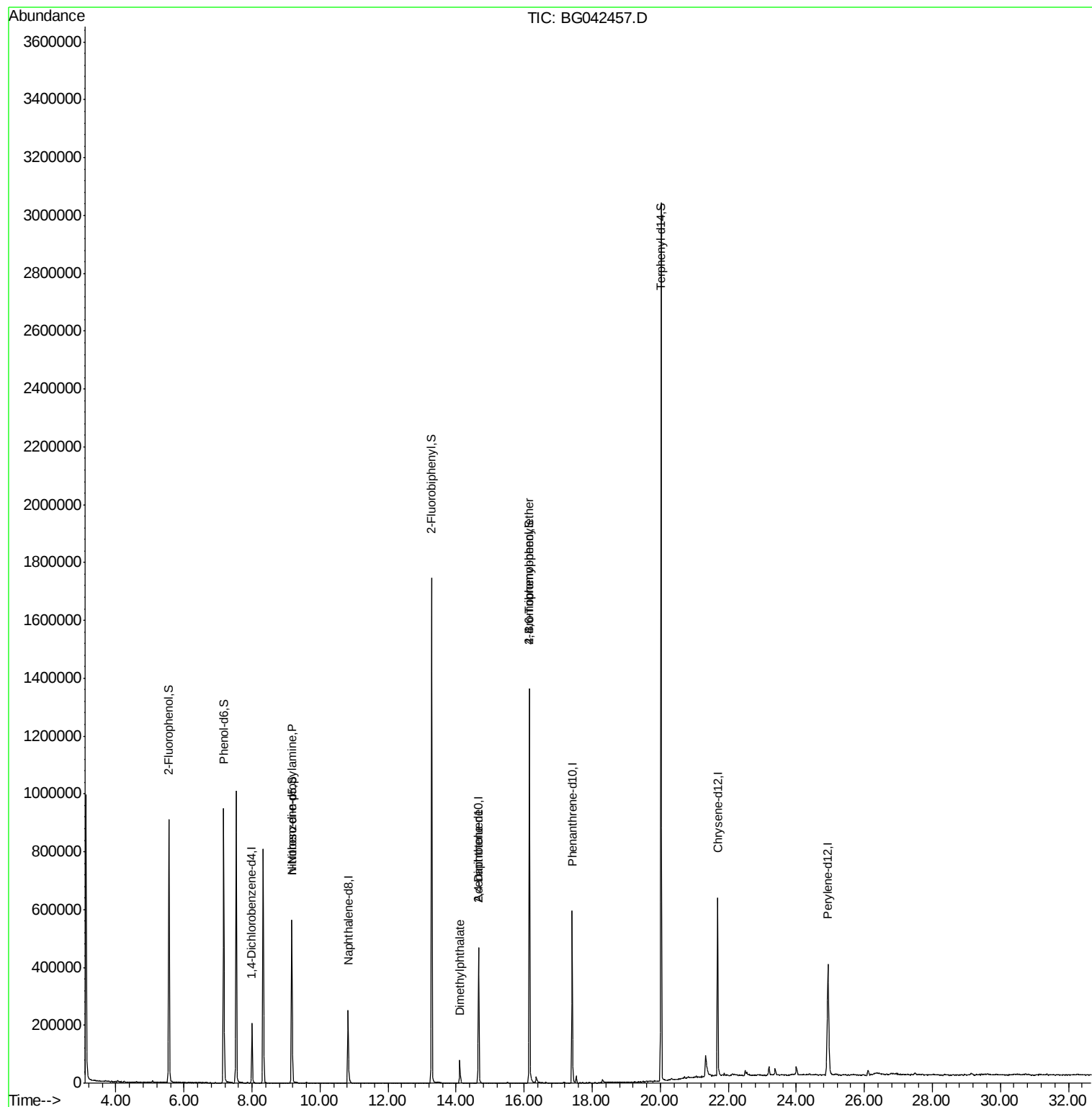
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 8.00  | 152  | 66808    | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8             | 10.83 | 136  | 267494   | 20.00  | ng    | 0.00        |
| 39) Acenaphthene-d10           | 14.66 | 164  | 188019   | 20.00  | ng    | 0.00        |
| 64) Phenanthrene-d10           | 17.41 | 188  | 402238   | 20.00  | ng    | 0.00        |
| 76) Chrysene-d12               | 21.69 | 240  | 394201   | 20.00  | ng    | 0.00        |
| 87) Perylene-d12               | 24.93 | 264  | 453770   | 20.00  | ng    | 0.00        |
| System Monitoring Compounds    |       |      |          |        |       |             |
| 5) 2-Fluorophenol              | 5.56  | 112  | 473861   | 143.65 | ng    | 0.00        |
| 7) Phenol-d6                   | 7.16  | 99   | 651628   | 146.24 | ng    | 0.00        |
| 23) Nitrobenzene-d5            | 9.17  | 82   | 383891   | 99.17  | ng    | 0.00        |
| 42) 2,4,6-Tribromophenol       | 16.15 | 330  | 313886   | 117.46 | ng    | 0.00        |
| 45) 2-Fluorobiphenyl           | 13.28 | 172  | 999078   | 89.87  | ng    | 0.00        |
| 79) Terphenyl-d14              | 20.03 | 244  | 1485735  | 81.48  | ng    | 0.00        |
| Target Compounds               |       |      |          |        |       |             |
| 19) n-Nitroso-di-n-propylamine | 9.17  | 70   | 48900    | 16.940 | ng    | Qvalue # 74 |
| 50) Dimethylphthalate          | 14.11 | 163  | 77258    | 5.695  | ng    | 97          |
| 57) 2,4-Dinitrotoluene         | 14.66 | 165  | 24382    | 5.415  | ng    | # 39        |
| 67) 4-Bromophenyl-phenylether  | 16.15 | 248  | 22681    | 4.445  | ng    | # 1         |

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

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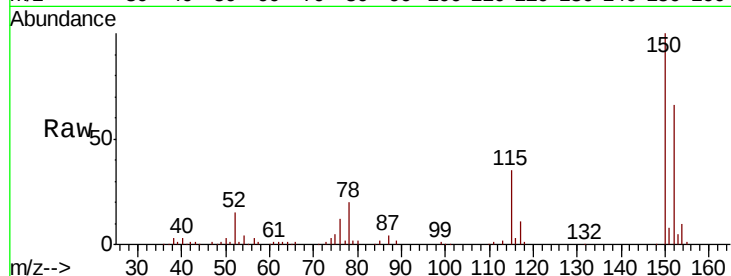


#1

1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.00 min Scan# 836  
 Delta R.T. -0.01 min  
 Lab File: BG042457.D  
 Acq: 24 Aug 2019 8:19

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 151.5 | 125.4 | 188.0 |
| 115     | 53.7  | 38.5  | 57.7  |

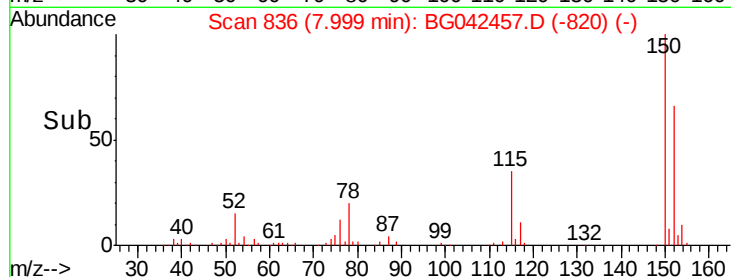
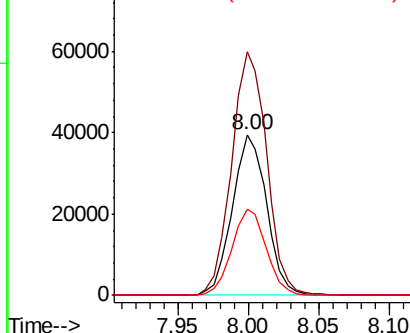


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

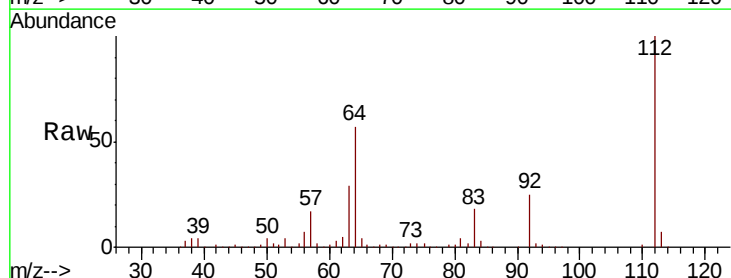
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
 Concen: 143.651 ng  
 RT: 5.56 min Scan# 421  
 Delta R.T. -0.00 min  
 Lab File: BG042457.D  
 Acq: 24 Aug 2019 8:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.0  | 42.8  | 64.2  |
| 63      | 28.7  | 22.7  | 34.1  |

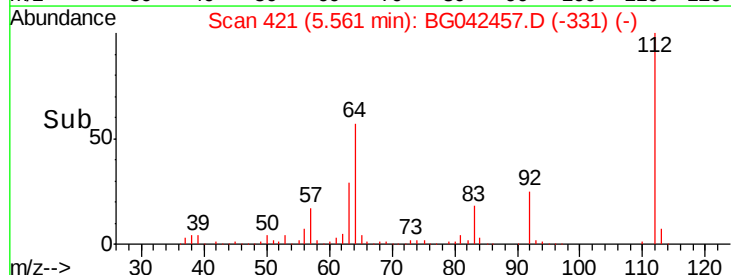
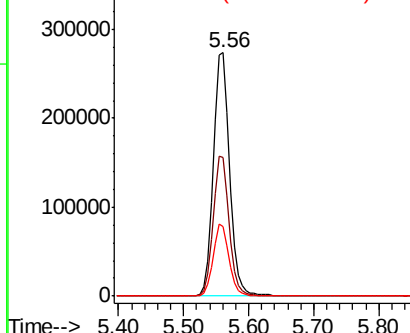


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 146.243 ng

RT: 7.16 min Scan# 694

Delta R.T. -0.01 min

Lab File: BG042457.D

Acq: 24 Aug 2019 8:19

Instrument :

BNA\_G

ClientSampleId :

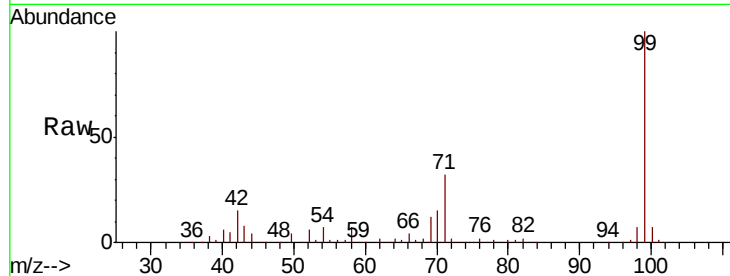
Tot Ion: 99 Resp: 651628

Ion Ratio Lower Upper

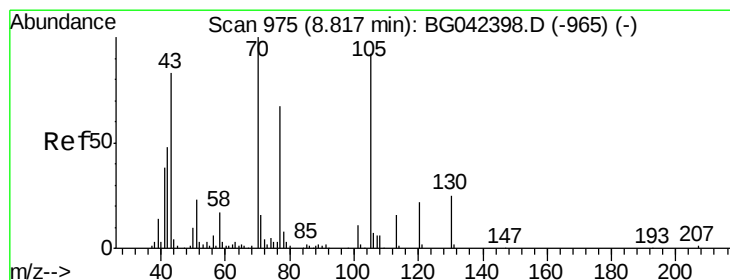
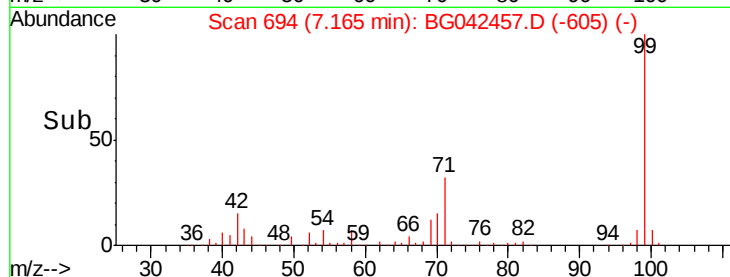
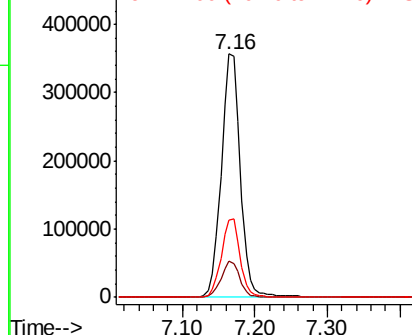
99 100

42 14.7 12.0 18.0

71 31.9 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: 16.940 ng

RT: 9.17 min Scan# 1035

Delta R.T. 0.35 min

Lab File: BG042457.D

Acq: 24 Aug 2019 8:19

Tgt Ion: 70 Resp: 48900

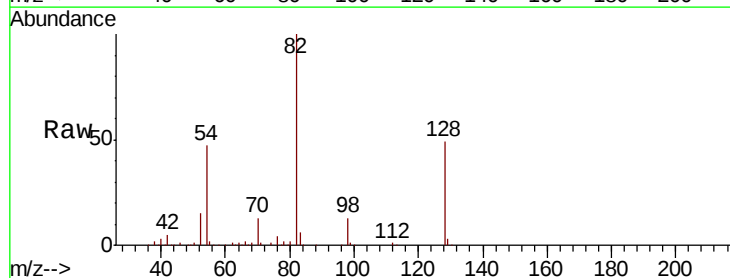
Ion Ratio Lower Upper

70 100

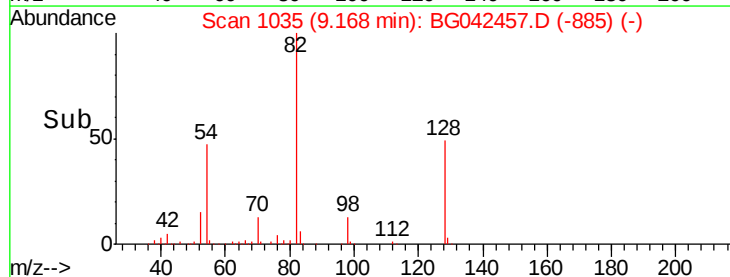
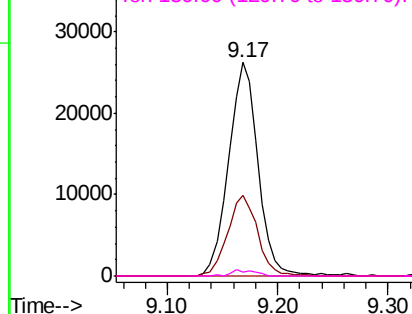
42 38.0 38.8 58.2#

101 0.0 9.0 13.6#

130 1.8 20.0 30.0#



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

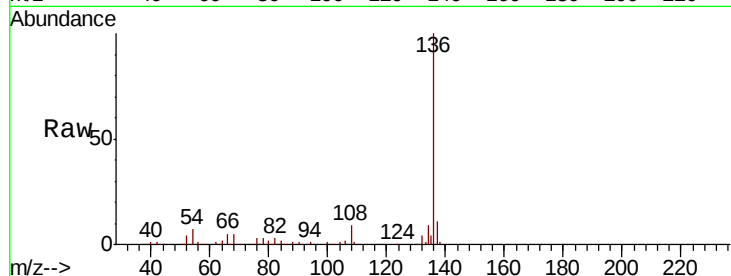




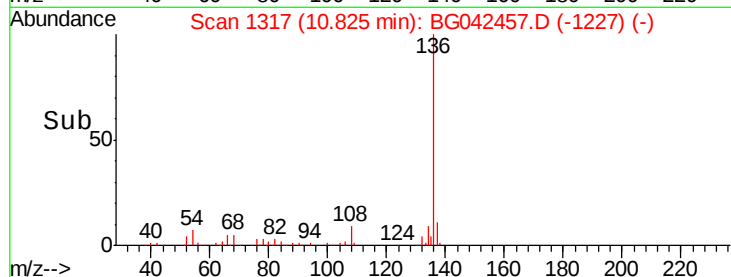
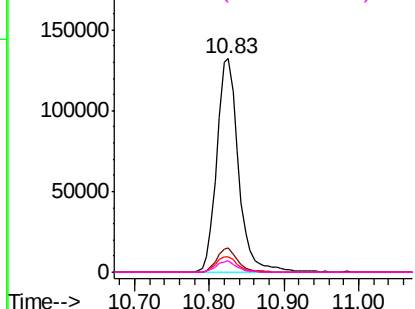
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.83 min Scan# 1317  
Delta R.T. -0.00 min  
Lab File: BG042457.D  
Acq: 24 Aug 2019 8:19

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |        |
|-------------|-------|--------|
| Tot Ion:136 | Resp: | 267494 |
| Ion Ratio   | Lower | Upper  |
| 136 100     |       |        |
| 137 11.4    | 8.7   | 13.1   |
| 54 7.4      | 4.9   | 7.3#   |
| 68 5.5      | 3.6   | 5.4#   |

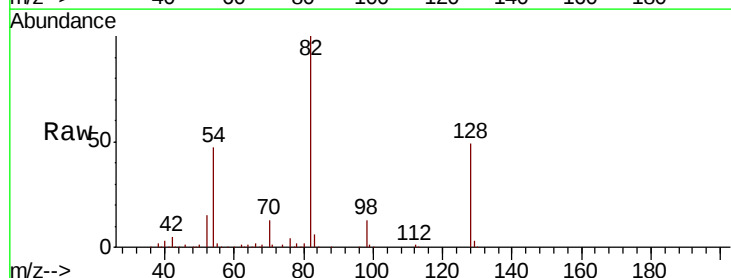


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

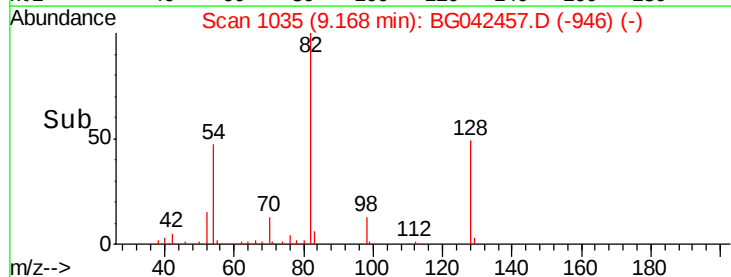
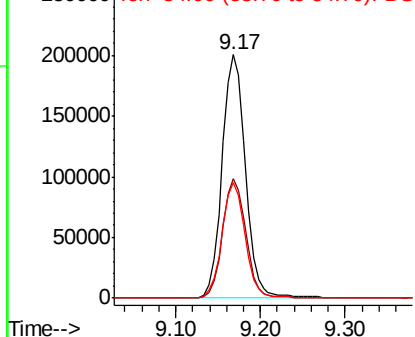


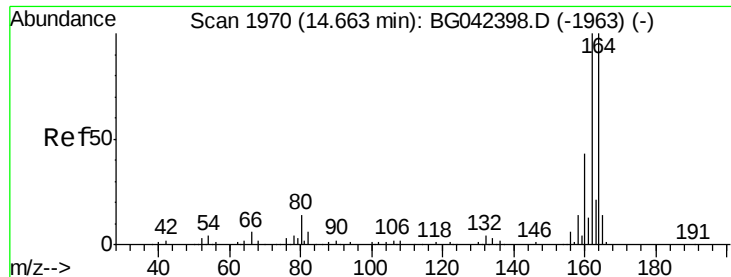
#23  
Nitrobenzene-d5  
Concen: 99.174 ng  
RT: 9.17 min Scan# 1035  
Delta R.T. -0.01 min  
Lab File: BG042457.D  
Acq: 24 Aug 2019 8:19

|             |              |
|-------------|--------------|
| Tgt Ion: 82 | Resp: 383891 |
| Ion Ratio   | Lower Upper  |
| 82 100      |              |
| 128 49.3    | 40.7 61.1    |
| 54 47.5     | 36.3 54.5    |



Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 128.00 (127.70 to 128.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.66 min Scan# 1970

Delta R.T. -0.00 min

Lab File: BG042457.D

Acq: 24 Aug 2019 8:19

Instrument :

BNA\_G

ClientSampleId :

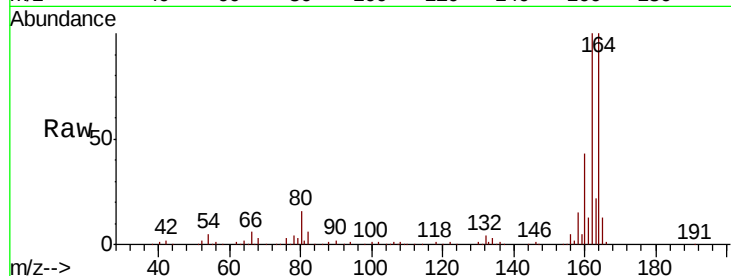
Tot Ion:164 Resp: 188019

Ion Ratio Lower Upper

164 100

162 100.0 79.9 119.9

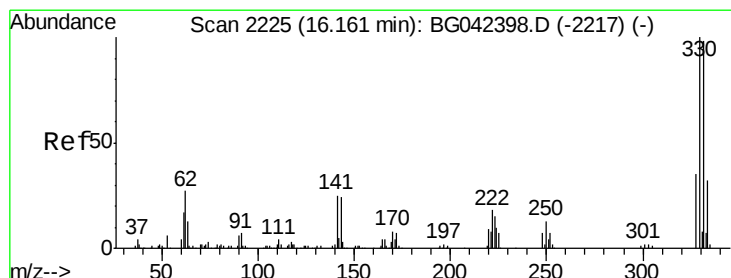
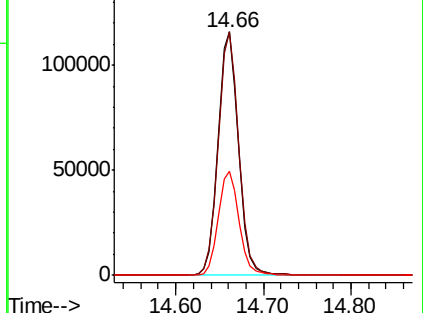
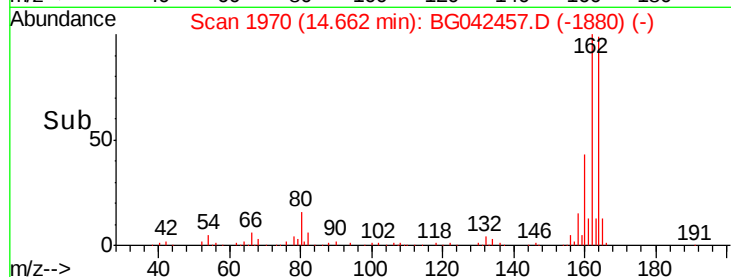
160 42.5 34.3 51.5



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: 117.456 ng

RT: 16.15 min Scan# 2224

Delta R.T. -0.01 min

Lab File: BG042457.D

Acq: 24 Aug 2019 8:19

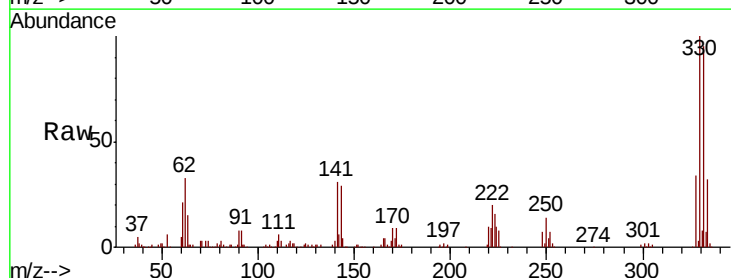
Tgt Ion:330 Resp: 313886

Ion Ratio Lower Upper

330 100

332 97.0 77.4 116.0

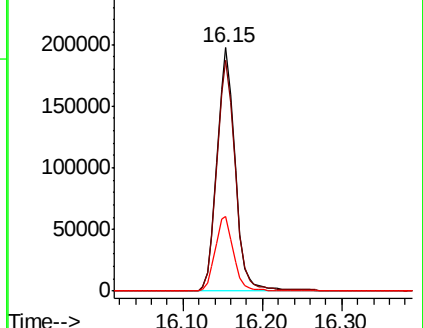
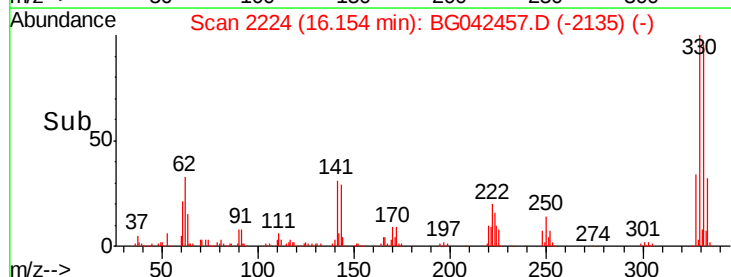
141 31.2 21.4 32.0

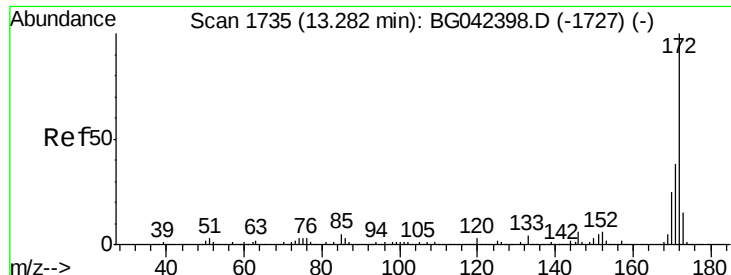


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

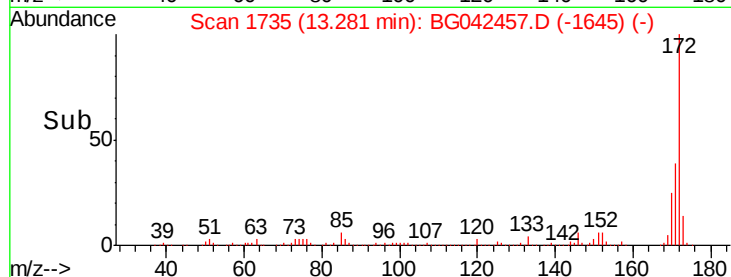
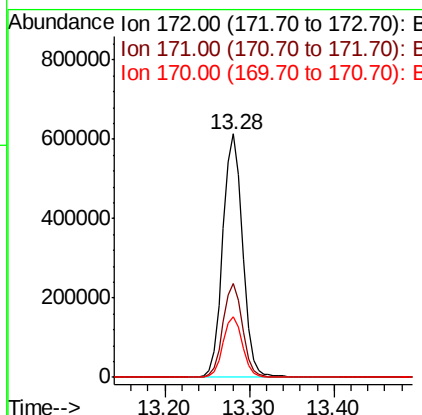
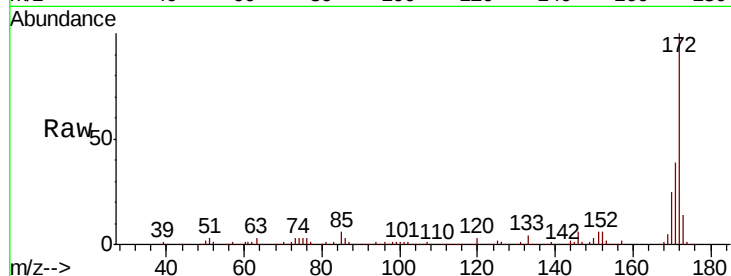




#45  
2-Fluorobiphenyl  
Concen: 89.870 ng  
RT: 13.28 min Scan# 1735  
Delta R.T. -0.00 min  
Lab File: BG042457.D  
Acq: 24 Aug 2019 8:19

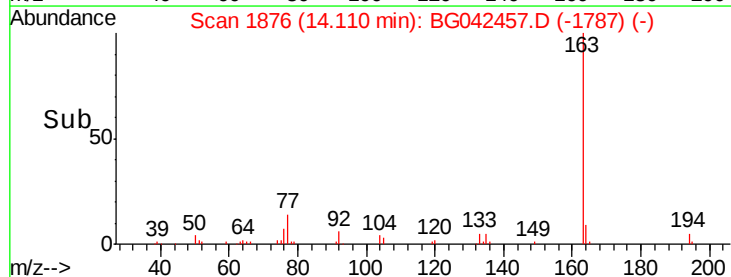
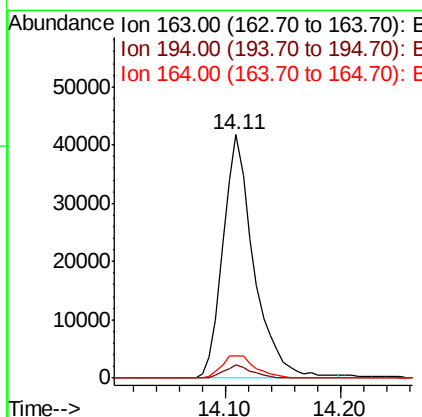
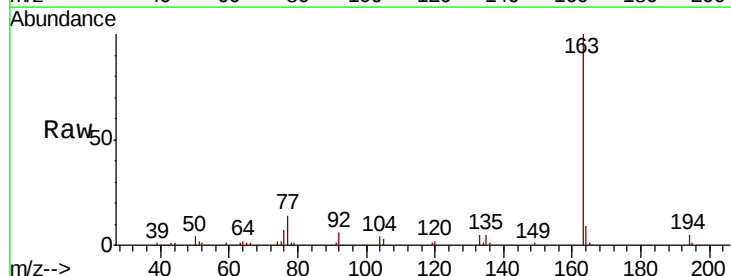
Instrument :  
BNA\_G  
ClientSampleId :

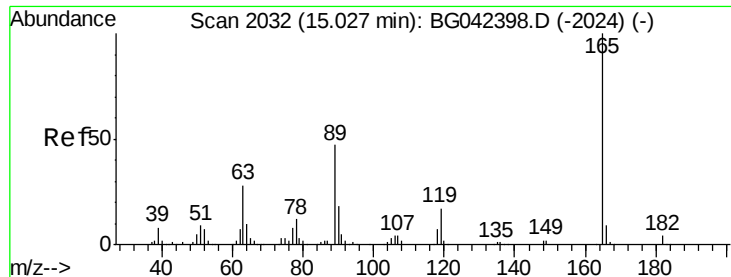
Tot Ion:172 Resp: 999078  
Ion Ratio Lower Upper  
172 100  
171 38.5 30.5 45.7  
170 24.8 20.2 30.2



#50  
Dimethylphthalate  
Concen: 5.695 ng  
RT: 14.11 min Scan# 1876  
Delta R.T. -0.01 min  
Lab File: BG042457.D  
Acq: 24 Aug 2019 8:19

Tgt Ion:163 Resp: 77258  
Ion Ratio Lower Upper  
163 100  
194 5.3 4.2 6.2  
164 9.3 8.8 13.2

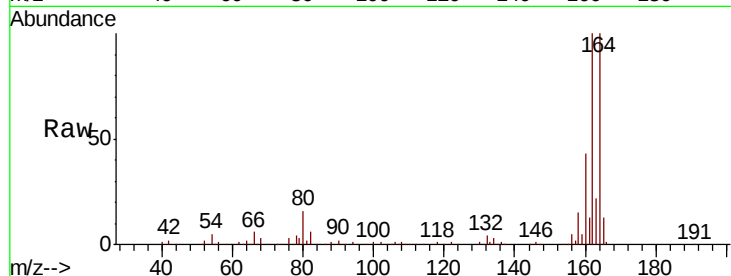




#57  
 2,4-Dinitrotoluene  
 Concen: 5.415 ng  
 RT: 14.66 min Scan# 1970  
 Delta R.T. -0.37 min  
 Lab File: BG042457.D  
 Acq: 24 Aug 2019 8:19

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 22.5  | 33.7# |
| 89      | 0.0   | 37.8  | 56.6# |
| 182     | 0.0   | 3.0   | 4.4#  |

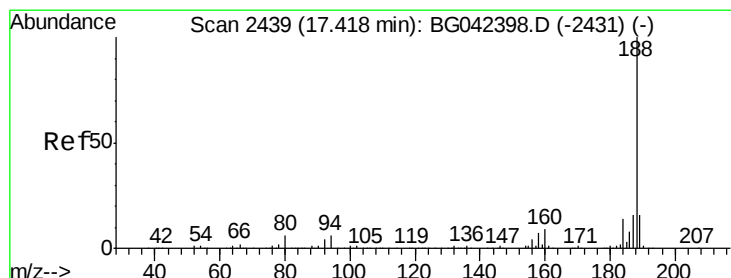
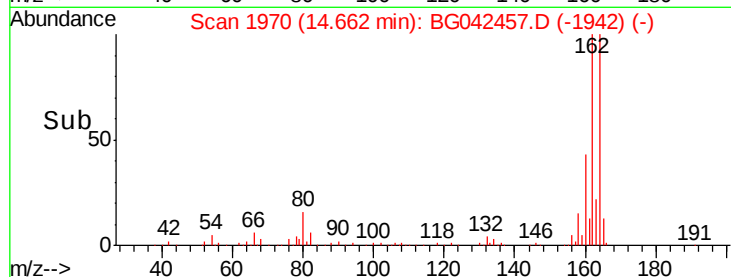
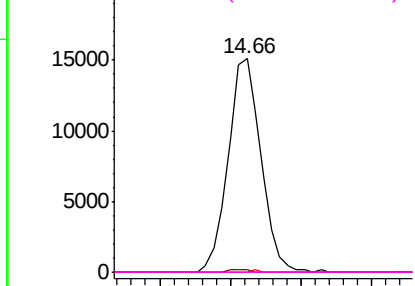


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

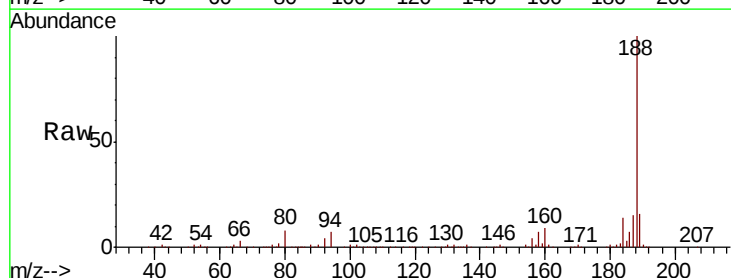
Ion 89.00 (88.70 to 89.70): BGC

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. -0.01 min  
 Lab File: BG042457.D  
 Acq: 24 Aug 2019 8:19

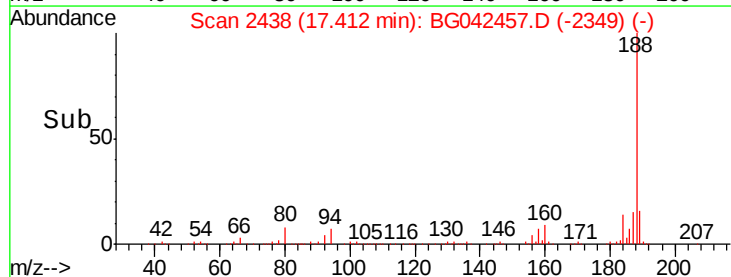
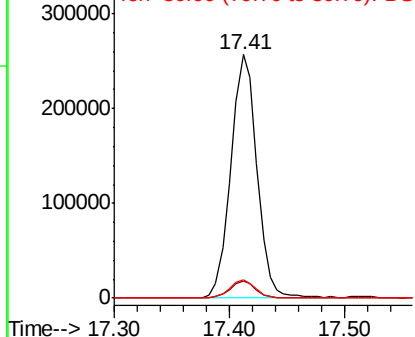
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 7.0   | 4.5   | 6.7#  |
| 80      | 7.6   | 4.9   | 7.3#  |

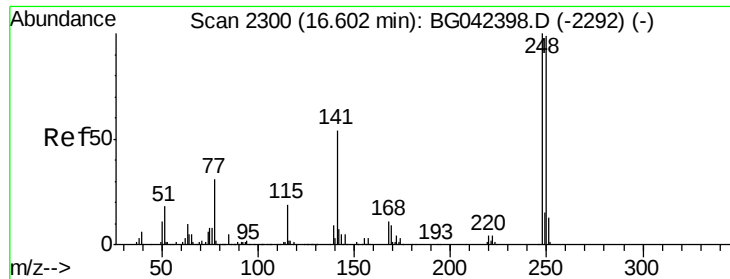


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

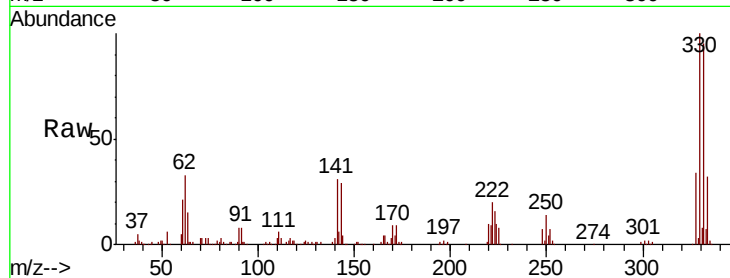




#67  
 4-Bromophenyl-phenylether  
 Concen: 4.445 ng  
 RT: 16.15 min Scan# 2224  
 Delta R.T. -0.45 min  
 Lab File: BG042457.D  
 Acq: 24 Aug 2019 8:19

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 205.2 | 78.9  | 118.3# |
| 141     | 439.4 | 43.3  | 64.9#  |

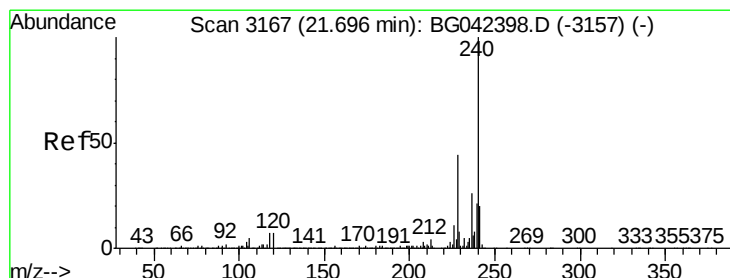
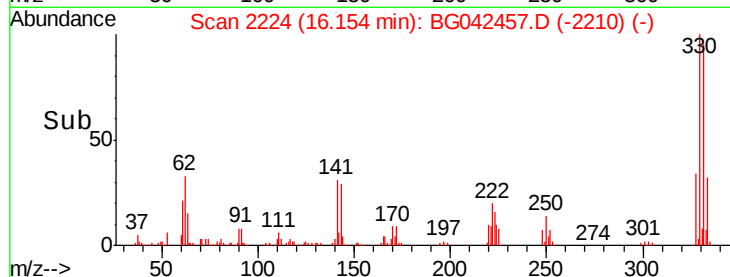
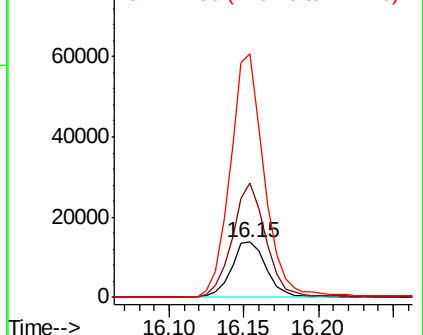


Abundance

Ion 248.00 (247.70 to 248.70): E

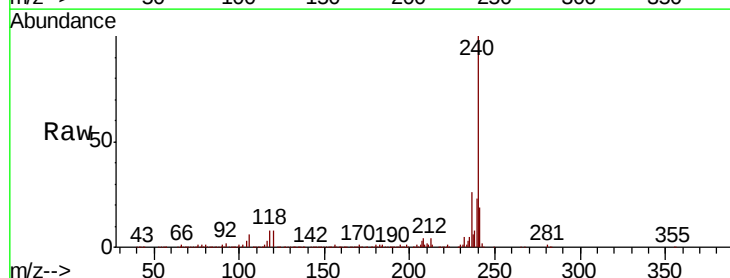
Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.69 min Scan# 3166  
 Delta R.T. -0.01 min  
 Lab File: BG042457.D  
 Acq: 24 Aug 2019 8:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 7.9   | 5.7   | 8.5   |
| 236     | 26.2  | 21.0  | 31.4  |

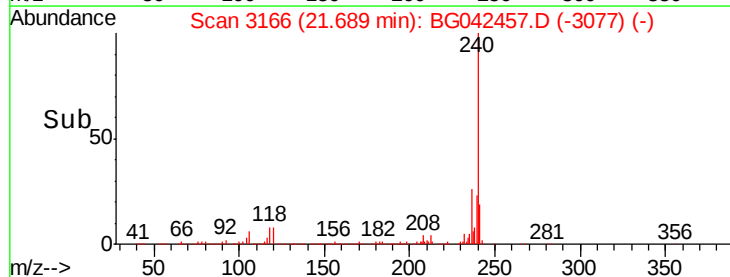
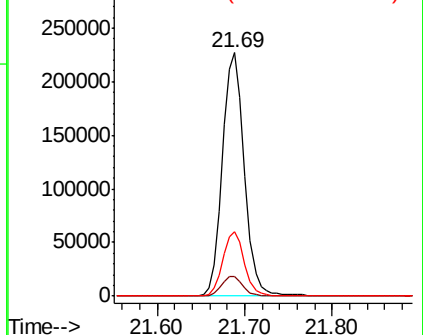


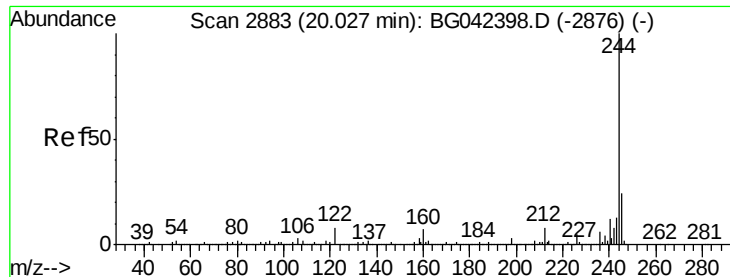
Abundance

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





#79

Terphenyl-d14

Concen: 81.482 ng

RT: 20.03 min Scan# 2883

Delta R.T. -0.00 min

Lab File: BG042457.D

Acq: 24 Aug 2019 8:19

Instrument :

BNA\_G

ClientSampled :

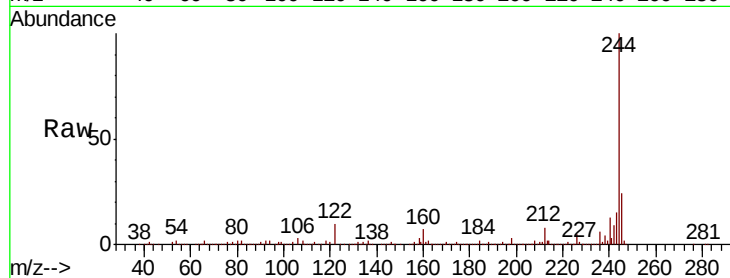
Tot Ion:244 Resp: 1485735

Ion Ratio Lower Upper

244 100

212 8.4 6.0 9.0

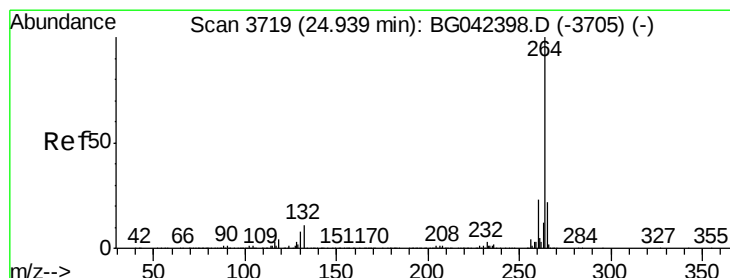
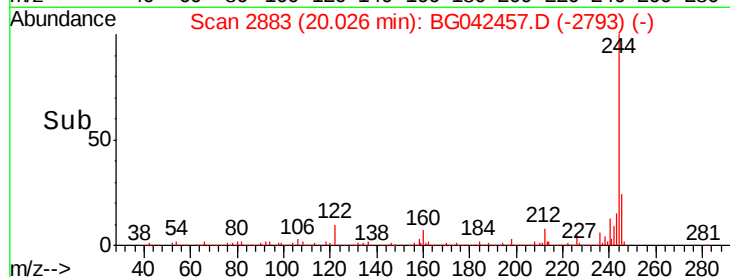
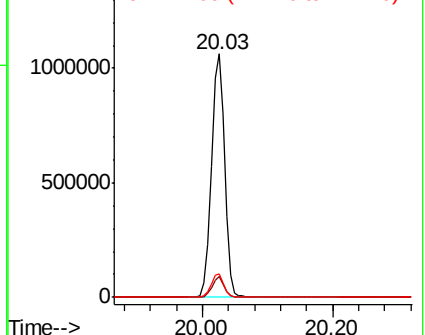
122 9.6 6.7 10.1



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

Perylene-d12

Concen: 20.000 ng

RT: 24.93 min Scan# 3718

Delta R.T. -0.01 min

Lab File: BG042457.D

Acq: 24 Aug 2019 8:19

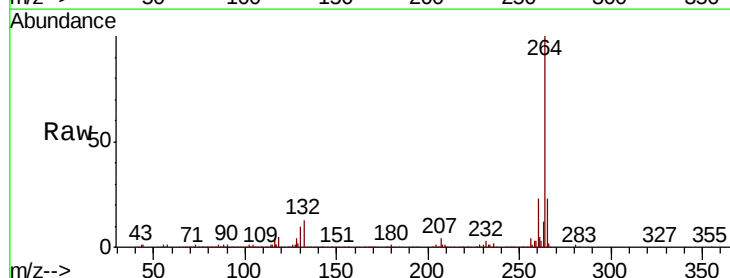
Tgt Ion:264 Resp: 453770

Ion Ratio Lower Upper

264 100

260 23.5 18.5 27.7

265 22.6 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

