

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG083119\  
 Data File : BG042634.D  
 Acq On : 31 Aug 2019 14:34  
 Operator : HP/JU  
 Sample : K4592-03  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Aug 31 18:13:12 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

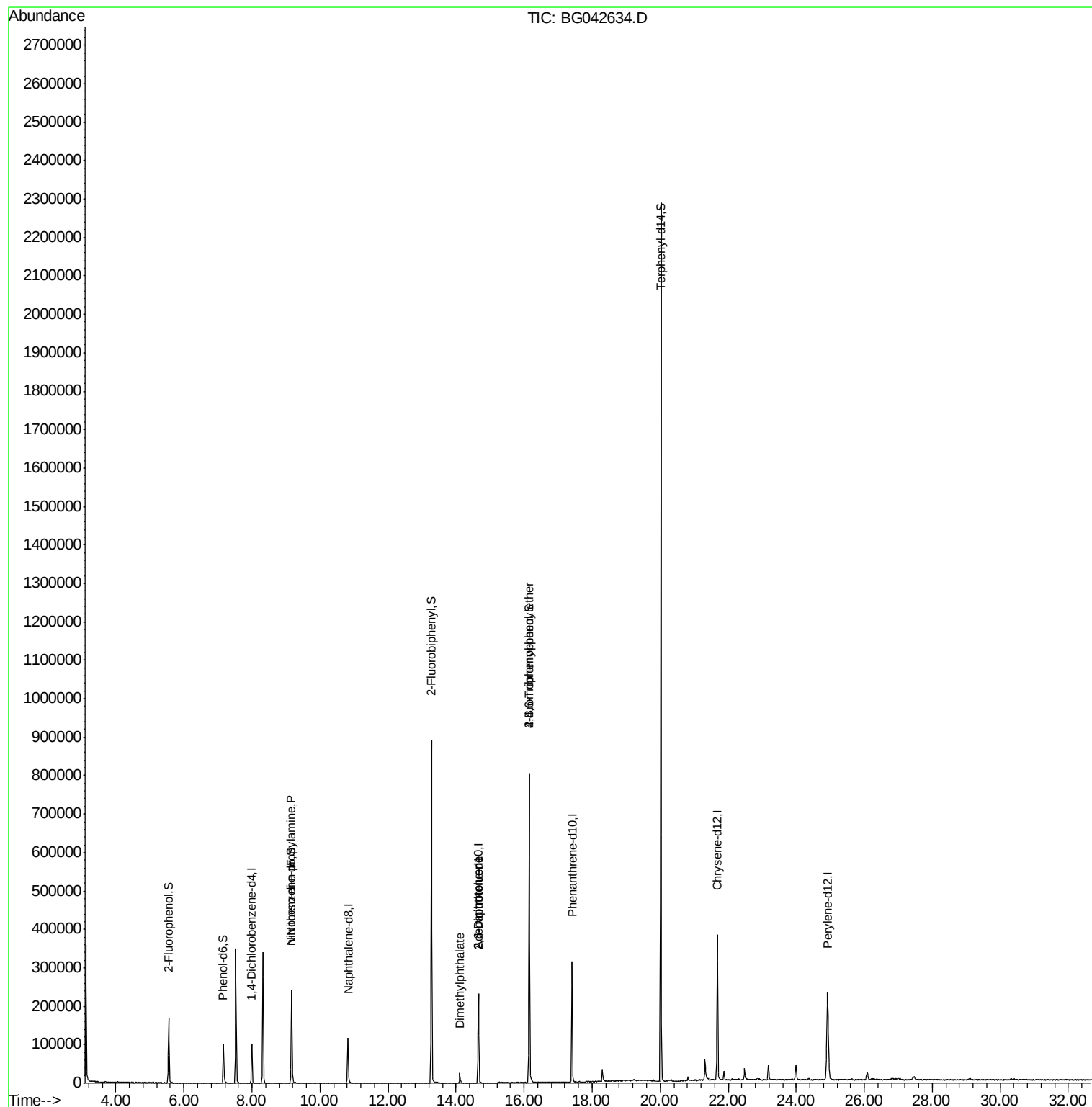
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 7.99  | 152  | 34122    | 20.00  | ng    | -0.01       |
| 21) Naphthalene-d8             | 10.82 | 136  | 129671   | 20.00  | ng    | 0.00        |
| 39) Acenaphthene-d10           | 14.66 | 164  | 96720    | 20.00  | ng    | 0.00        |
| 64) Phenanthrene-d10           | 17.41 | 188  | 226287   | 20.00  | ng    | -0.01       |
| 76) Chrysene-d12               | 21.68 | 240  | 250164   | 20.00  | ng    | -0.01       |
| 87) Perylene-d12               | 24.92 | 264  | 289531   | 20.00  | ng    | -0.02       |
| System Monitoring Compounds    |       |      |          |        |       |             |
| 5) 2-Fluorophenol              | 5.55  | 112  | 87717    | 52.06  | ng    | -0.01       |
| 7) Phenol-d6                   | 7.16  | 99   | 72463    | 31.84  | ng    | -0.01       |
| 23) Nitrobenzene-d5            | 9.16  | 82   | 162259   | 86.47  | ng    | -0.01       |
| 42) 2,4,6-Tribromophenol       | 16.15 | 330  | 204519   | 148.77 | ng    | -0.01       |
| 45) 2-Fluorobiphenyl           | 13.28 | 172  | 551803   | 96.49  | ng    | 0.00        |
| 79) Terphenyl-d14              | 20.02 | 244  | 1173520  | 101.42 | ng    | 0.00        |
| Target Compounds               |       |      |          |        |       |             |
| 19) n-Nitroso-di-n-propylamine | 9.16  | 70   | 21167    | 14.357 | ng    | Qvalue # 78 |
| 50) Dimethylphthalate          | 14.11 | 163  | 26626    | 3.815  | ng    | 97          |
| 51) 2,6-Dinitrotoluene         | 14.66 | 165  | 12348    | 7.634  | ng    | # 36        |
| 57) 2,4-Dinitrotoluene         | 14.66 | 165  | 12348    | 5.331  | ng    | # 38        |
| 67) 4-Bromophenyl-phenylether  | 16.15 | 248  | 13847    | 4.824  | ng    | # 1         |

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

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Sample : K4592-03  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Aug 31 18:13:12 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



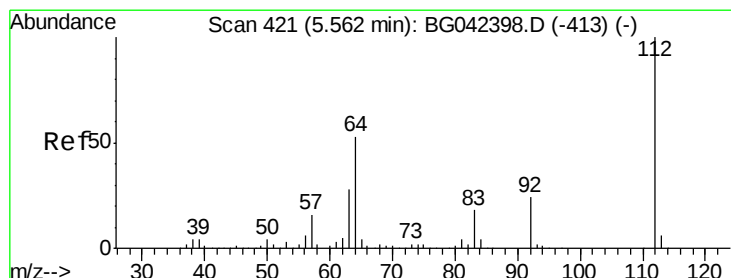
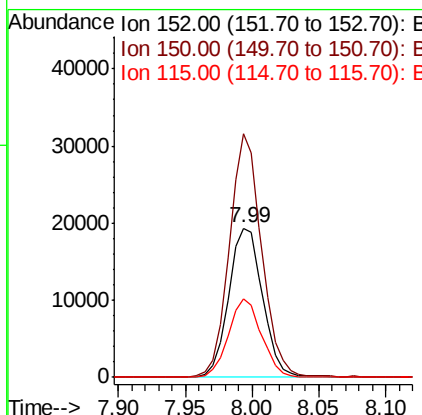
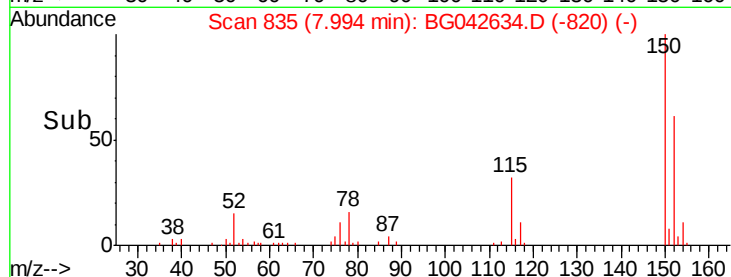
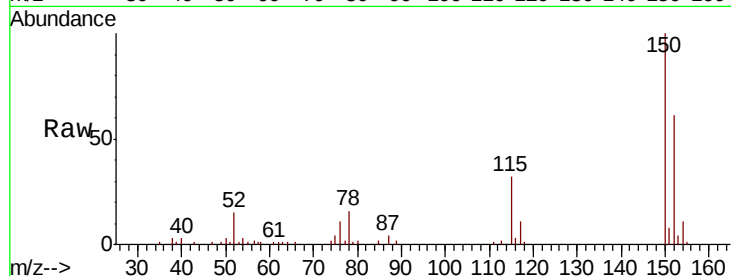


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.99 min Scan# 835  
Delta R.T. -0.01 min  
Lab File: BG042634.D  
Acq: 31 Aug 2019 14:34

Instrument :  
BNA\_G  
ClientSampleId :

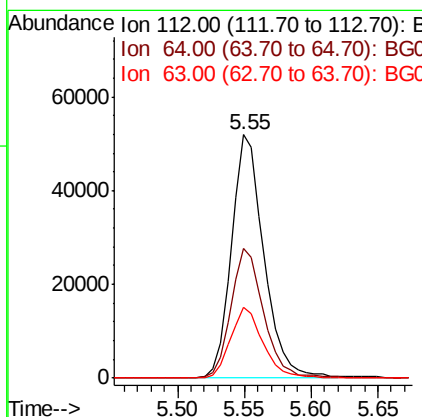
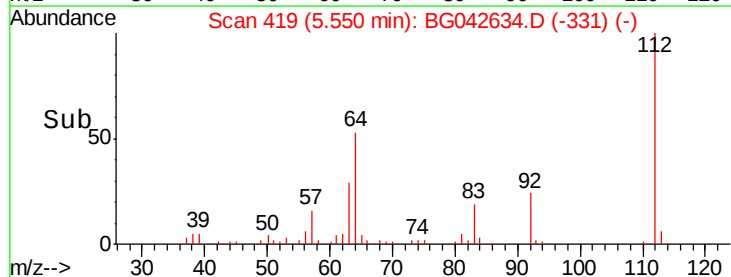
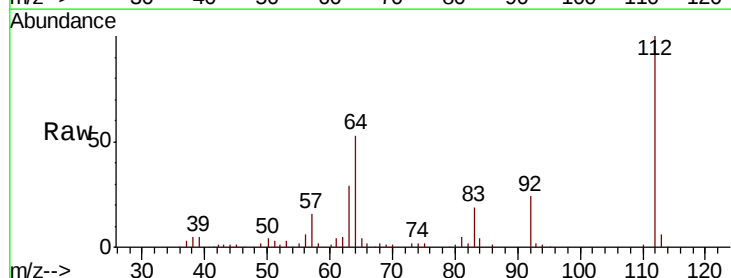
Tot Ion:152 Resp: 34122  
Ion Ratio Lower Upper  
152 100  
150 163.3 125.4 188.0  
115 52.5 38.5 57.7

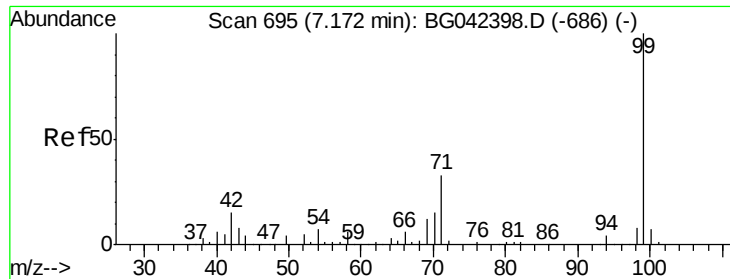


#5

2-Fluorophenol  
Concen: 52.064 ng  
RT: 5.55 min Scan# 419  
Delta R.T. -0.01 min  
Lab File: BG042634.D  
Acq: 31 Aug 2019 14:34

Tgt Ion:112 Resp: 87717  
Ion Ratio Lower Upper  
112 100  
64 53.1 42.8 64.2  
63 28.9 22.7 34.1





#7

Phenol-d6

Concen: 31.841 ng

RT: 7.16 min Scan# 693

Delta R.T. -0.01 min

Lab File: BG042634.D

Acq: 31 Aug 2019 14:34

Instrument :

BNA\_G

ClientSampled :

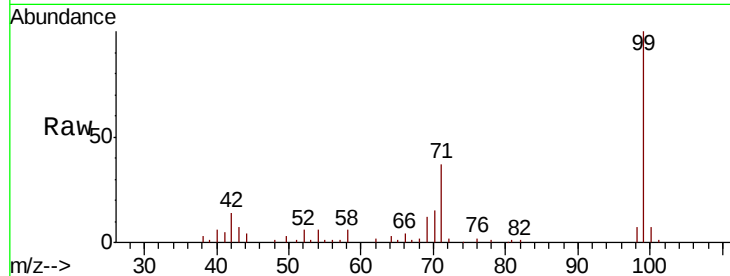
Tot Ion: 99 Resp: 72463

Ion Ratio Lower Upper

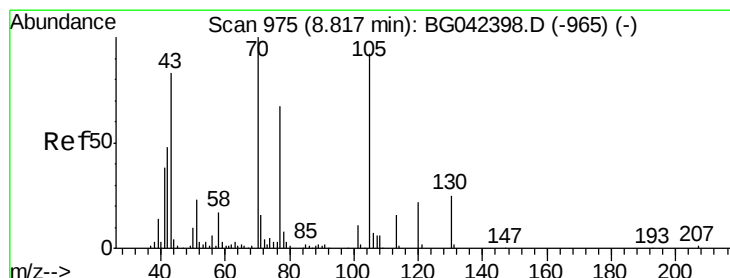
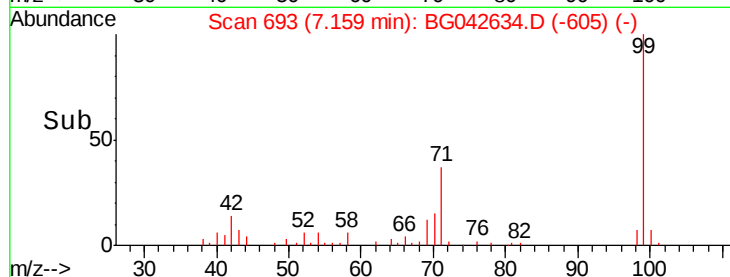
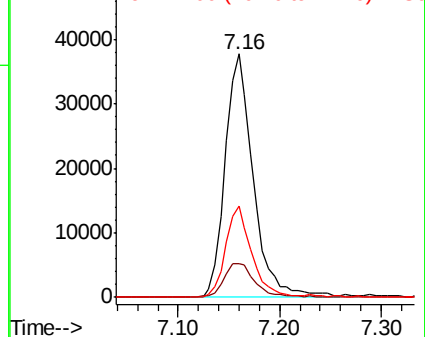
99 100

42 14.1 12.0 18.0

71 37.4 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: 14.357 ng

RT: 9.16 min Scan# 1034

Delta R.T. 0.35 min

Lab File: BG042634.D

Acq: 31 Aug 2019 14:34

Tgt Ion: 70 Resp: 21167

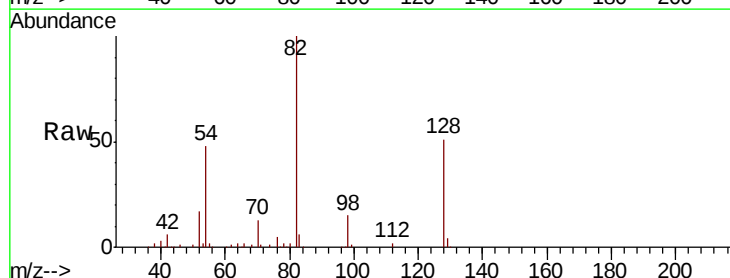
Ion Ratio Lower Upper

70 100

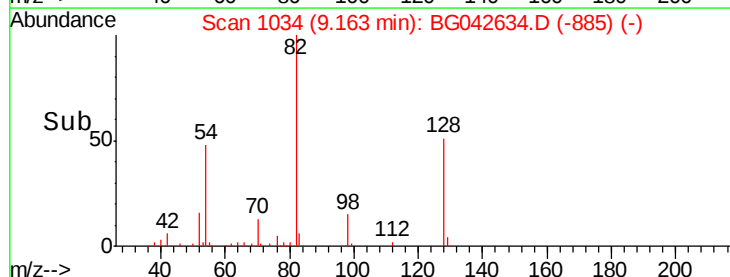
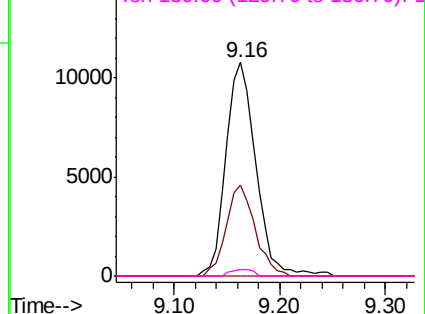
42 42.5 38.8 58.2

101 0.0 9.0 13.6#

130 2.8 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

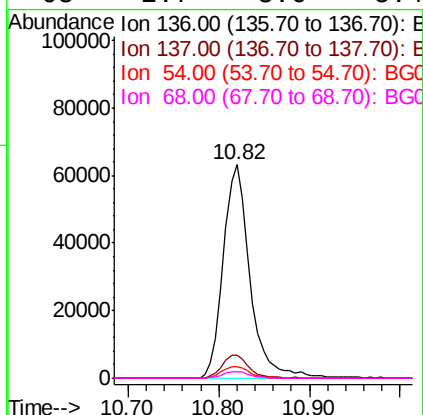
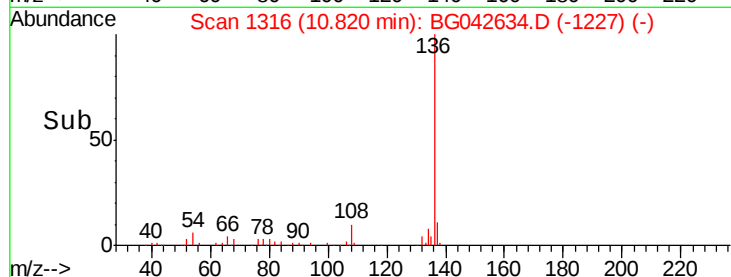
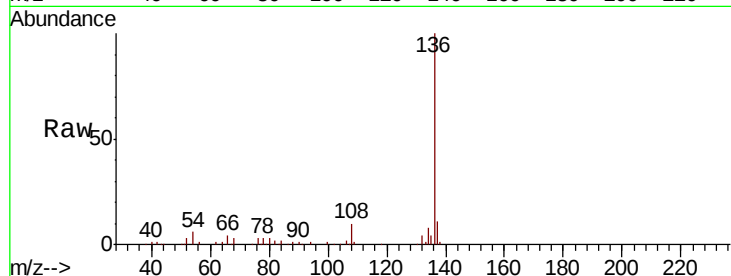




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.82 min Scan# 1316  
Delta R.T. -0.01 min  
Lab File: BG042634.D  
Acq: 31 Aug 2019 14:34

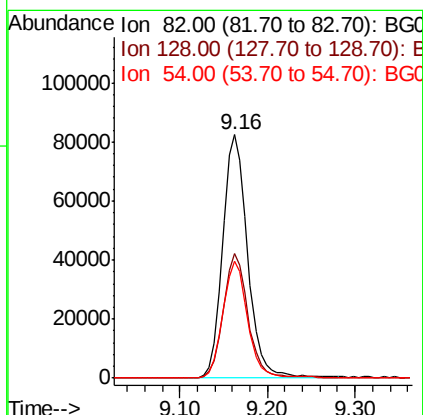
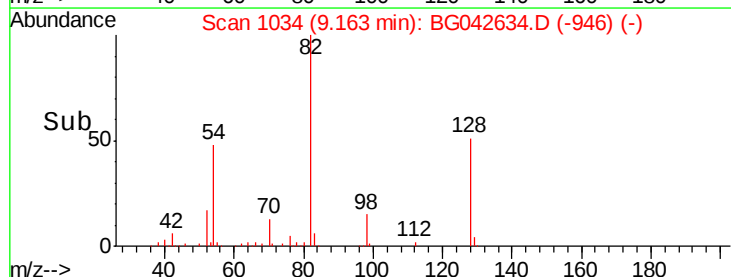
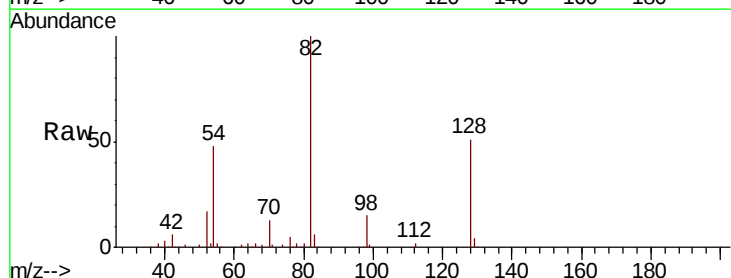
Instrument :  
BNA\_G  
ClientSampleId :

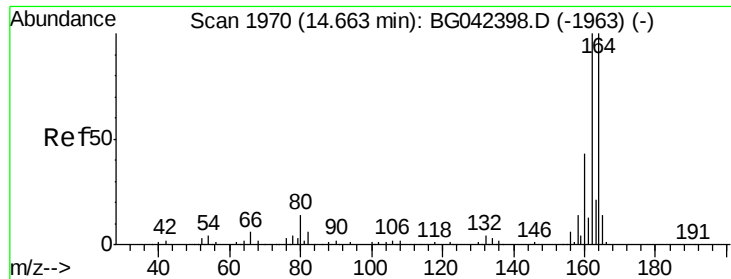
|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 129671      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 11.1  | 8.7 13.1    |
| 54          | 5.6   | 4.9 7.3     |
| 68          | 2.7   | 3.6 5.4#    |



#23  
Nitrobenzene-d5  
Concen: 86.471 ng  
RT: 9.16 min Scan# 1034  
Delta R.T. -0.01 min  
Lab File: BG042634.D  
Acq: 31 Aug 2019 14:34

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 162259      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 51.3  | 40.7 61.1   |
| 54          | 48.2  | 36.3 54.5   |

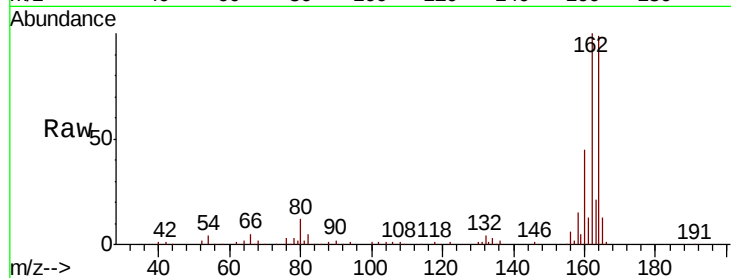




#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.66 min Scan# 1969  
 Delta R.T. -0.01 min  
 Lab File: BG042634.D  
 Acq: 31 Aug 2019 14:34

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.0 | 79.9  | 119.9 |
| 160     | 45.8  | 34.3  | 51.5  |

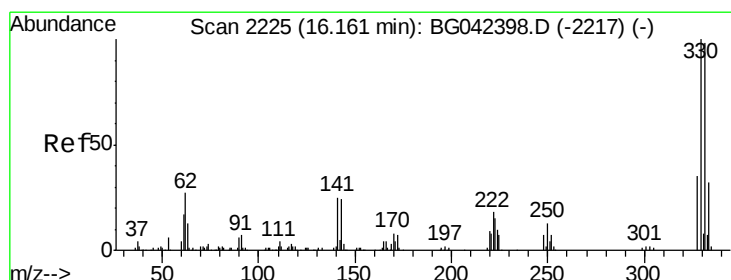
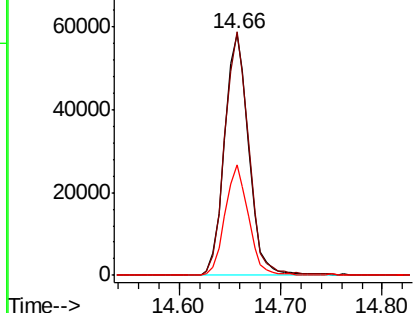
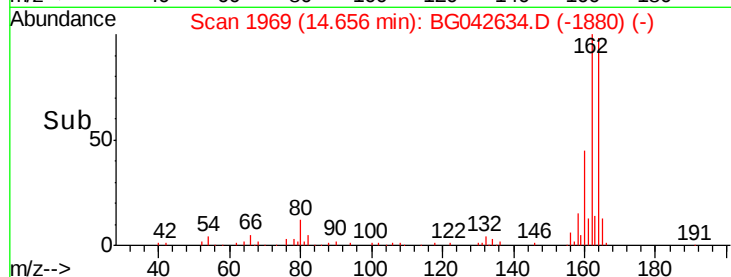


Abundance

Ion 164.00 (163.70 to 164.70): E

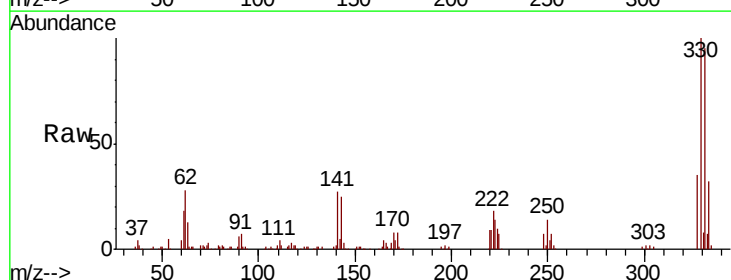
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42  
 2,4,6-Tribromophenol  
 Concen: 148.772 ng  
 RT: 16.15 min Scan# 2223  
 Delta R.T. -0.01 min  
 Lab File: BG042634.D  
 Acq: 31 Aug 2019 14:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 98.1  | 77.4  | 116.0 |
| 141     | 27.0  | 21.4  | 32.0  |

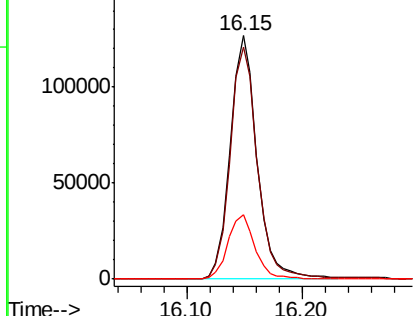
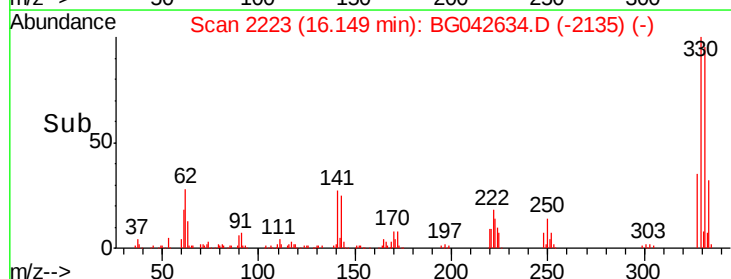


Abundance

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

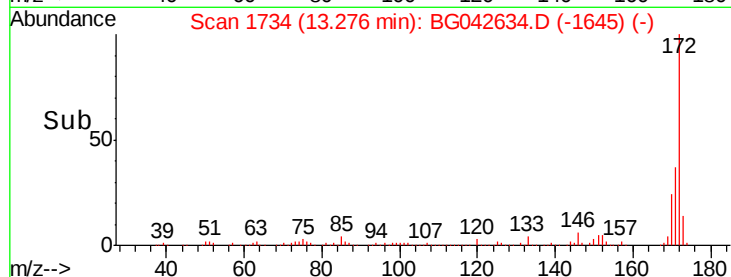
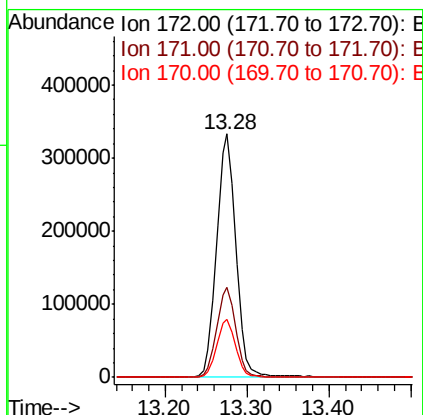
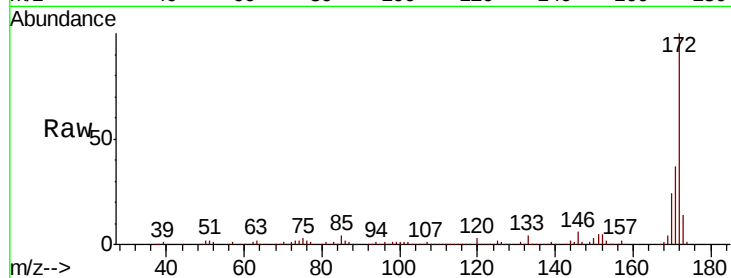




#45  
2-Fluorobiphenyl  
Concen: 96.490 ng  
RT: 13.28 min Scan# 1734  
Delta R.T. -0.01 min  
Lab File: BG042634.D  
Acq: 31 Aug 2019 14:34

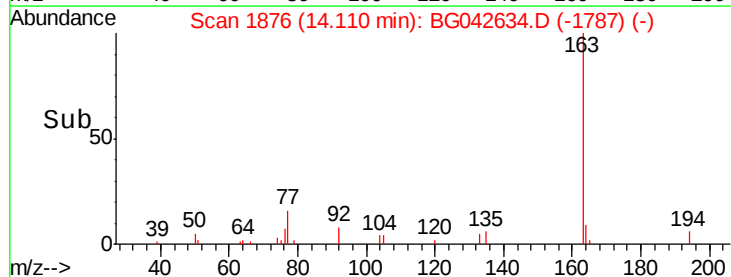
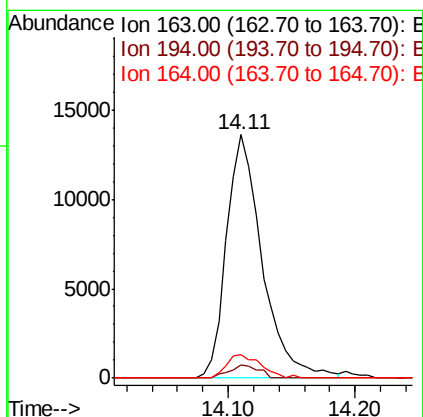
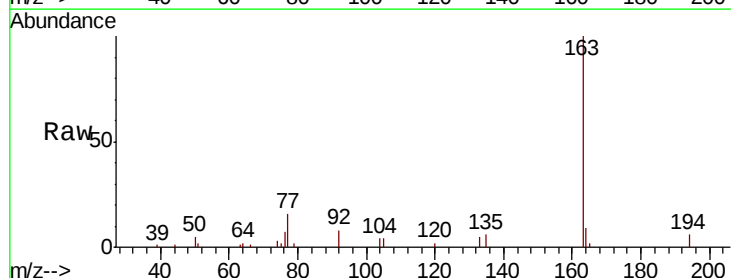
Instrument :  
BNA\_G  
ClientSampleId :

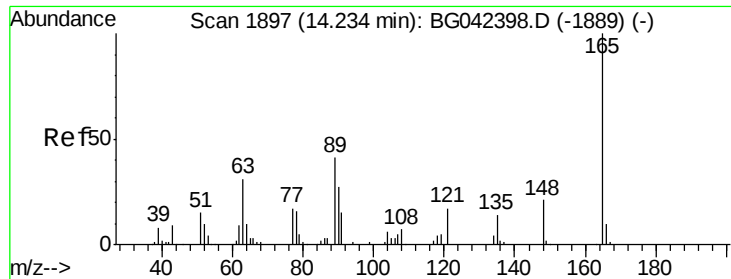
Tot Ion:172 Resp: 551803  
Ion Ratio Lower Upper  
172 100  
171 37.0 30.5 45.7  
170 23.9 20.2 30.2



#50  
Dimethylphthalate  
Concen: 3.815 ng  
RT: 14.11 min Scan# 1876  
Delta R.T. -0.01 min  
Lab File: BG042634.D  
Acq: 31 Aug 2019 14:34

Tgt Ion:163 Resp: 26626  
Ion Ratio Lower Upper  
163 100  
194 5.5 4.2 6.2  
164 9.4 8.8 13.2

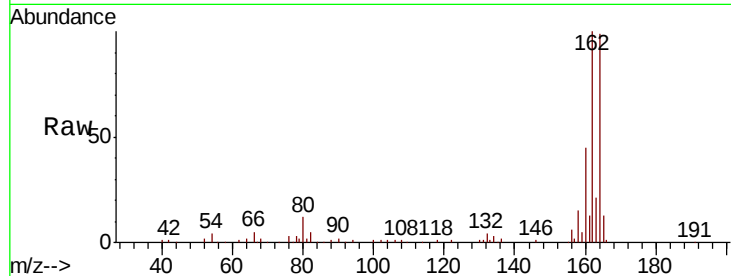




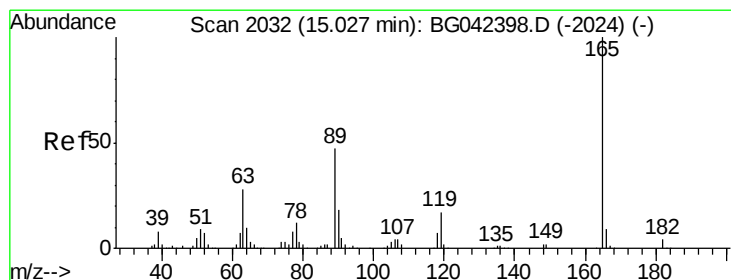
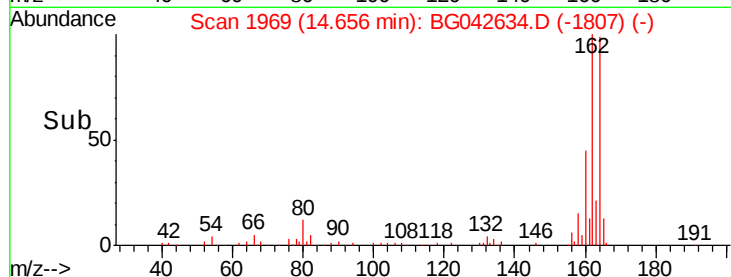
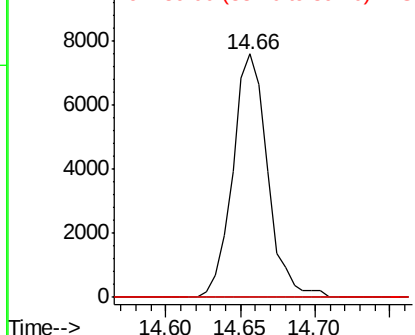
#51  
 2,6-Dinitrotoluene  
 Concen: 7.634 ng  
 RT: 14.66 min Scan# 1969  
 Delta R.T. 0.42 min  
 Lab File: BG042634.D  
 Acq: 31 Aug 2019 14:34

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 30.6  | 45.8# |
| 89      | 0.0   | 32.6  | 49.0# |

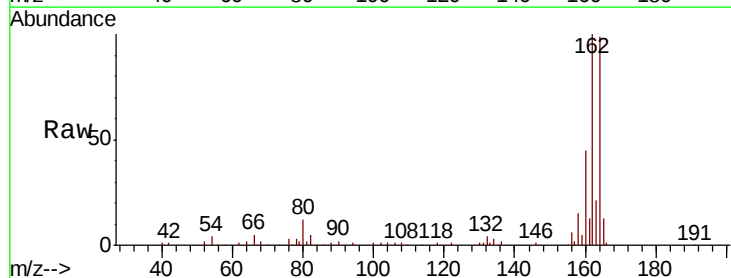


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 89.00 (88.70 to 89.70): BGC

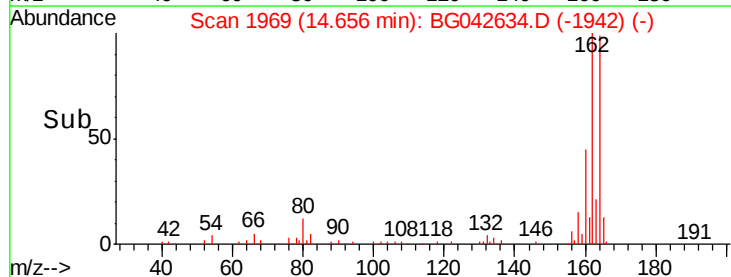
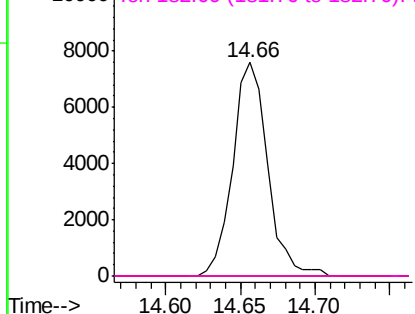


#57  
 2,4-Dinitrotoluene  
 Concen: 5.331 ng  
 RT: 14.66 min Scan# 1969  
 Delta R.T. -0.37 min  
 Lab File: BG042634.D  
 Acq: 31 Aug 2019 14:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 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# 2437

Delta R.T. -0.01 min

Lab File: BG042634.D

Acq: 31 Aug 2019 14:34

Instrument :

BNA\_G

ClientSampleId :

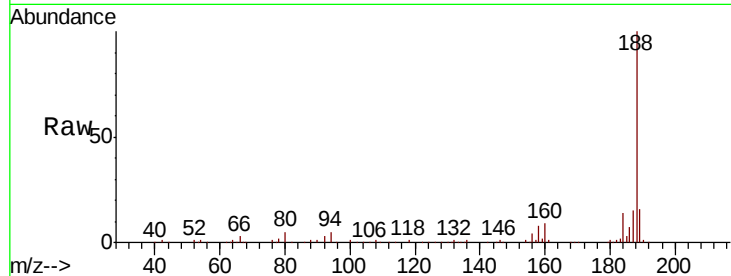
Tot Ion:188 Resp: 226287

Ion Ratio Lower Upper

188 100

94 5.1 4.5 6.7

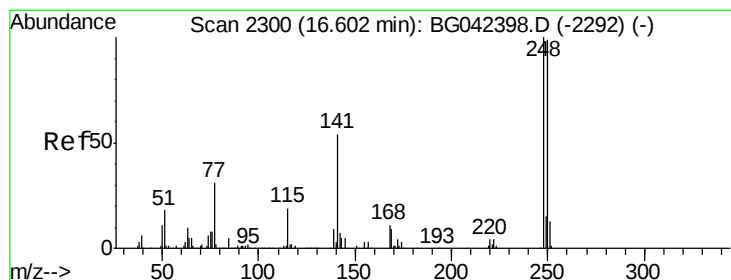
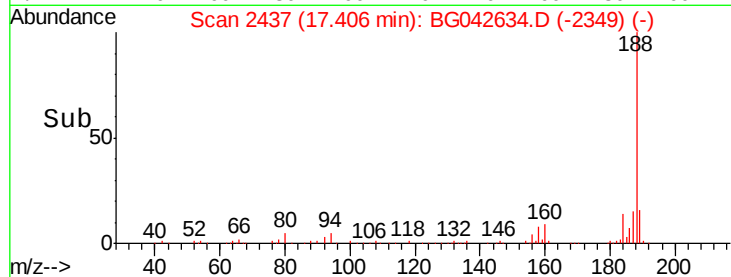
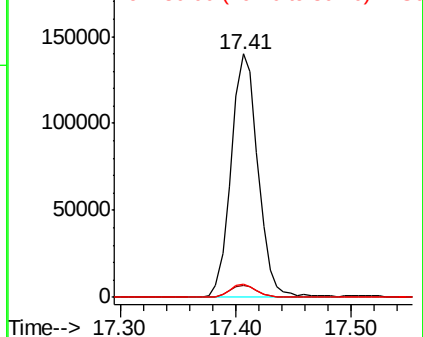
80 5.2 4.9 7.3



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG

Ion 80.00 (79.70 to 80.70): BG



#67

4-Bromophenyl-phenylether

Concen: 4.824 ng

RT: 16.15 min Scan# 2223

Delta R.T. -0.45 min

Lab File: BG042634.D

Acq: 31 Aug 2019 14:34

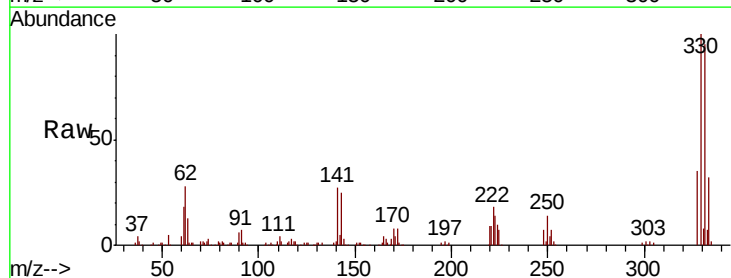
Tgt Ion:248 Resp: 13847

Ion Ratio Lower Upper

248 100

250 197.4 78.9 118.3#

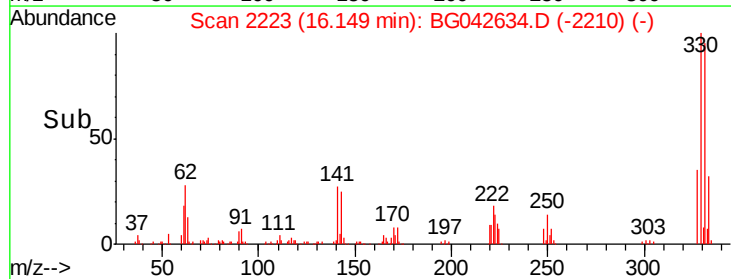
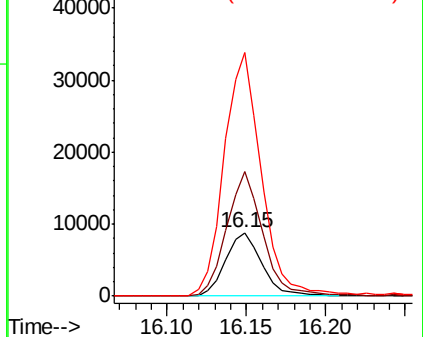
141 385.4 43.3 64.9#



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: 21.68 min Scan# 3165

Delta R.T. -0.01 min

Lab File: BG042634.D

Acq: 31 Aug 2019 14:34

Instrument :

BNA\_G

ClientSampleId :

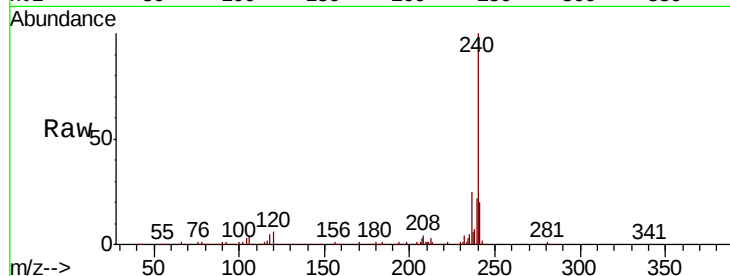
Tot Ion:240 Resp: 250164

Ion Ratio Lower Upper

240 100

120 5.7 5.7 8.5

236 24.7 21.0 31.4



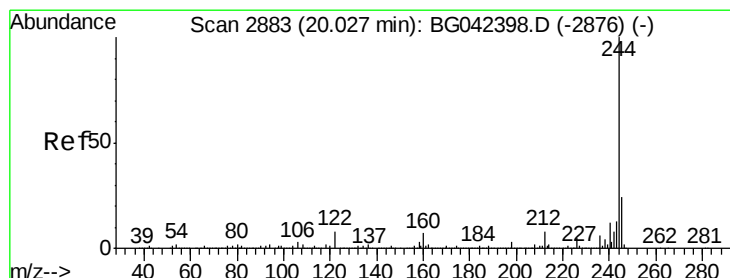
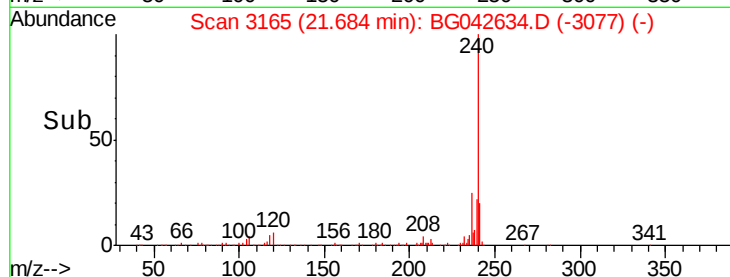
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

21.68

Time-->



#79

Terphenyl-d14

Concen: 101.416 ng

RT: 20.02 min Scan# 2882

Delta R.T. -0.01 min

Lab File: BG042634.D

Acq: 31 Aug 2019 14:34

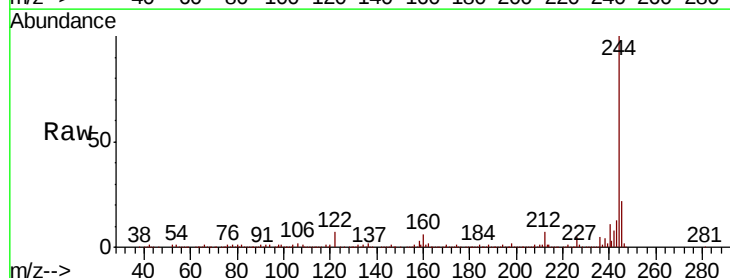
Tgt Ion:244 Resp: 1173520

Ion Ratio Lower Upper

244 100

212 7.3 6.0 9.0

122 7.0 6.7 10.1



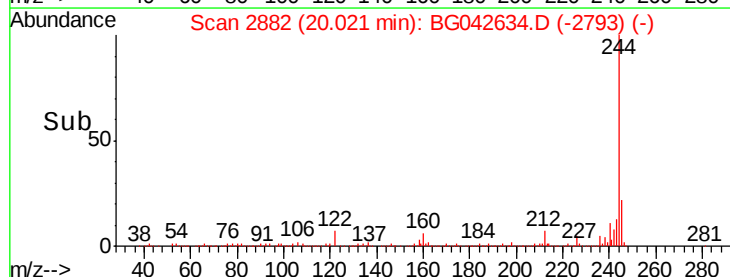
Abundance Ion 244.00 (243.70 to 244.70): E

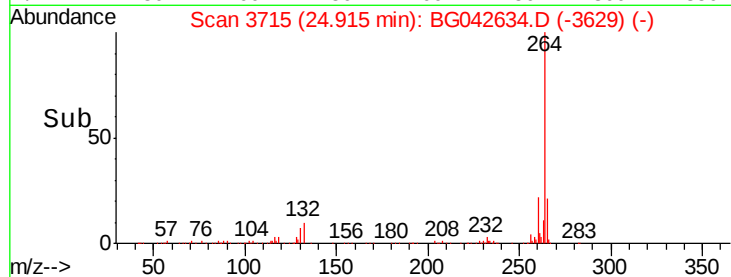
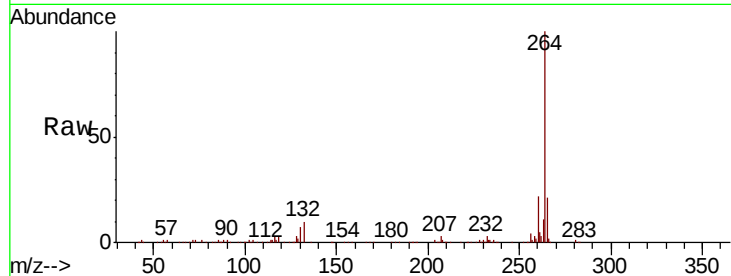
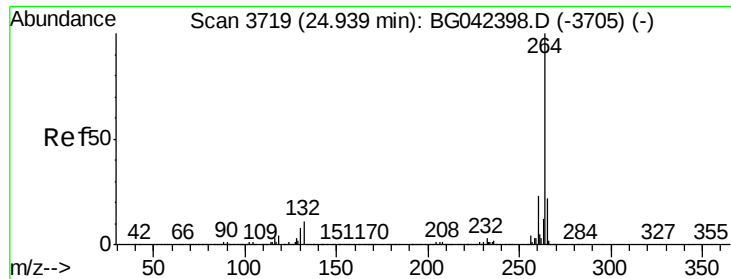
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

20.02

Time-->





#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 24.92 min Scan# 3715  
Delta R.T. -0.02 min  
Lab File: BG042634.D  
Acq: 31 Aug 2019 14:34

Instrument :  
BNA\_G  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 264   | Resp: | 289531 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 21.6  | 18.5  | 27.7   |
| 265      | 21.2  | 17.6  | 26.4   |

