

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG121818\  
 Data File : BG038721.D  
 Acq On : 19 Dec 2018 9:48  
 Operator : JU/SJ  
 Sample : J6398-10  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Dec 19 12:19:02 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG121218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 12 15:26:27 2018  
 Response via : Initial Calibration

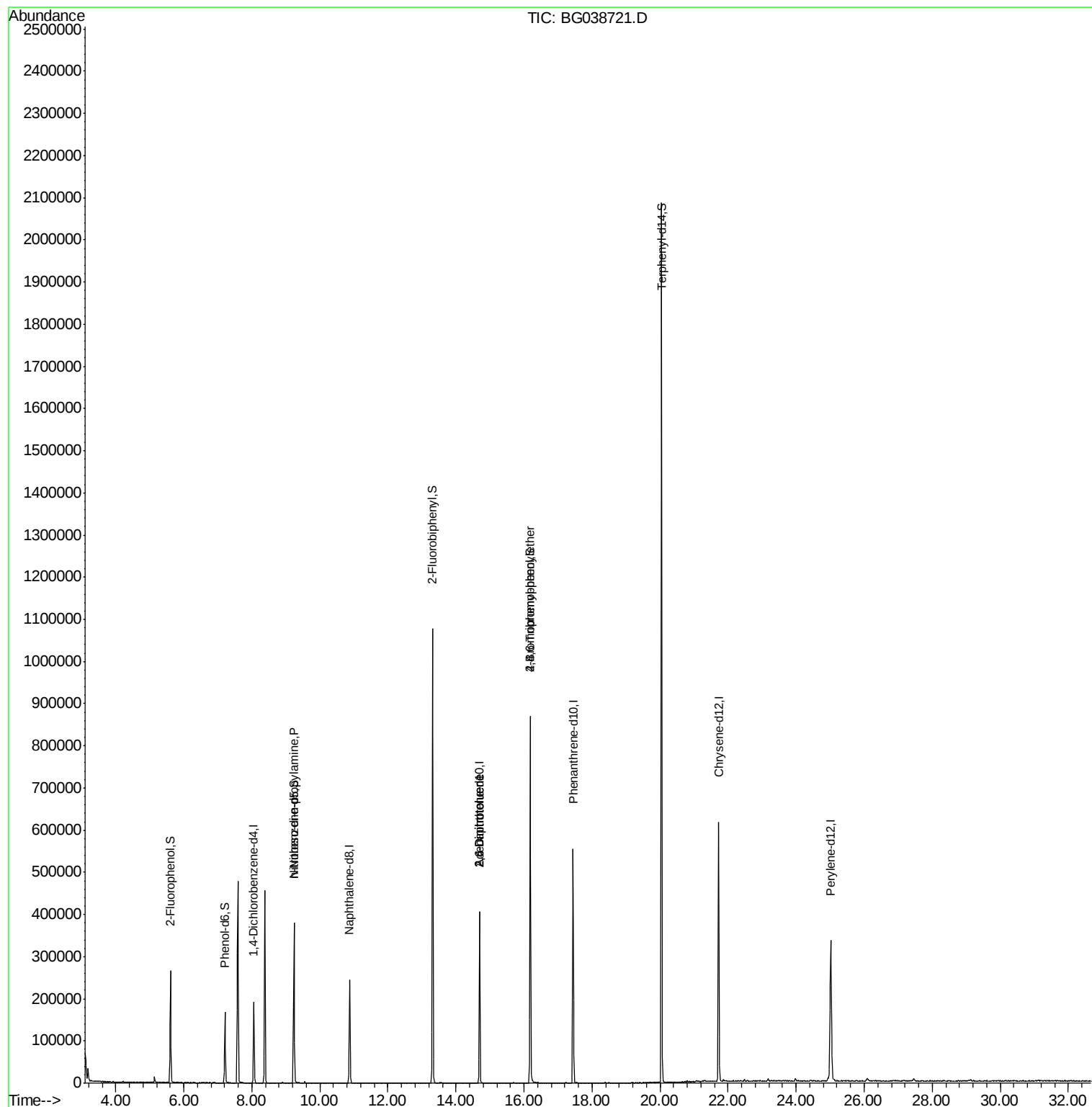
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.06  | 152  | 55563    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.88 | 136  | 220841   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.69 | 164  | 151417   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.44 | 188  | 374150   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.72 | 240  | 394610   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 25.02 | 264  | 412620   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.61  | 112  | 112856   | 36.03  | ng    | 0.00     |
| 7) Phenol-d6                   | 7.21  | 99   | 94479    | 21.97  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.24  | 82   | 225999   | 52.28  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.19 | 330  | 182154   | 87.29  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.31 | 172  | 575821   | 52.17  | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.05 | 244  | 1042896  | 57.52  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.24  | 70   | 31046    | 10.278 | ng    | # 69     |
| 51) 2,6-Dinitrotoluene         | 14.69 | 165  | 18991    | 6.777  | ng    | # 20     |
| 57) 2,4-Dinitrotoluene         | 14.69 | 165  | 18991    | 4.812  | ng    | # 22     |
| 67) 4-Bromophenyl-phenylether  | 16.18 | 248  | 12006    | 2.627  | ng    | # 1      |

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG121818\  
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Sample : J6398-10  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 12 15:26:27 2018  
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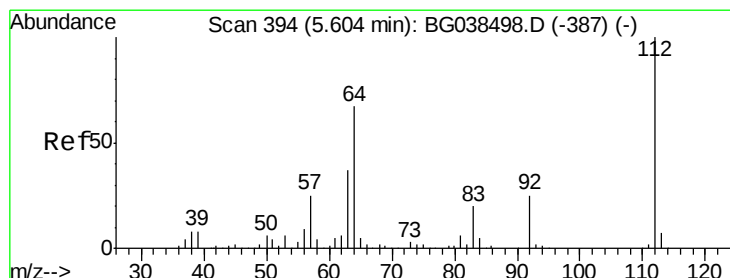
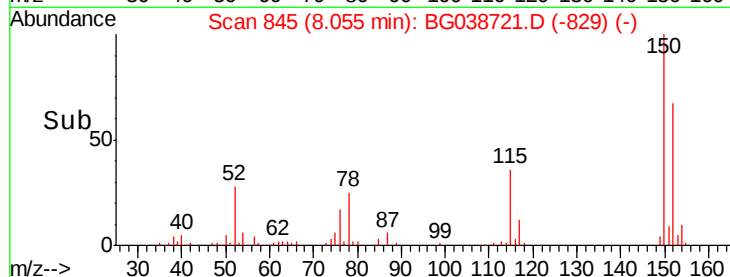
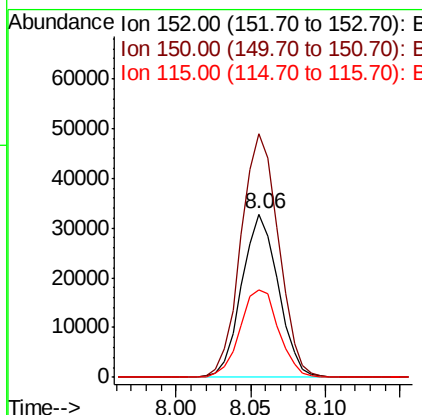
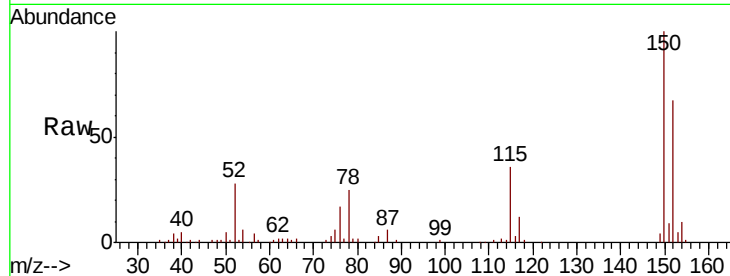


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.06 min Scan# 845  
Delta R.T. -0.00 min  
Lab File: BG038721.D  
Acq: 19 Dec 2018 9:48

Instrument :  
BNA\_G  
ClientSampleId :

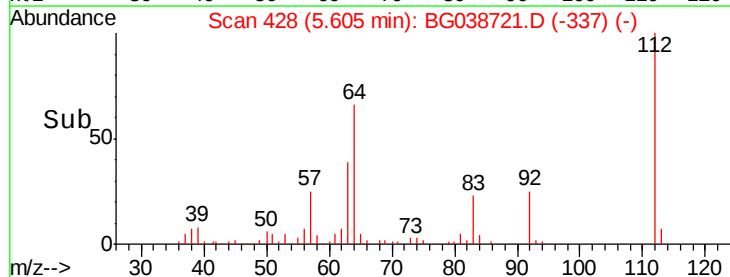
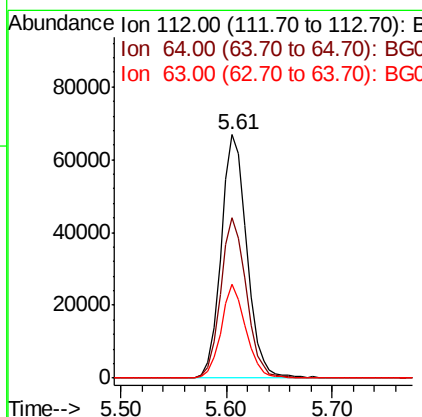
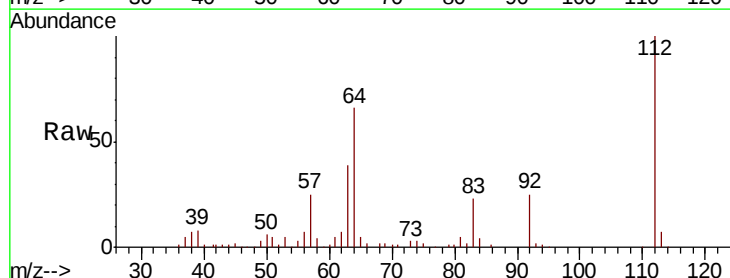
Tot Ion:152 Resp: 55563  
Ion Ratio Lower Upper  
152 100  
150 148.9 119.5 179.3  
115 53.2 49.6 74.4

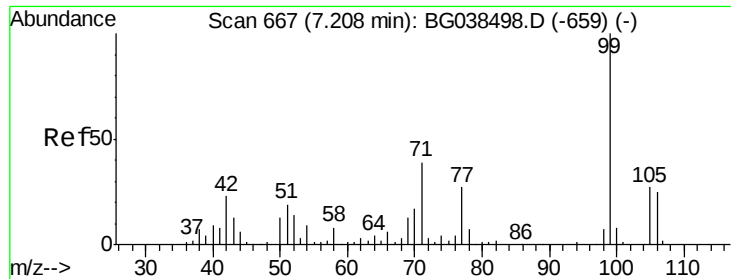


#5

2-Fluorophenol  
Concen: 36.025 ng  
RT: 5.61 min Scan# 428  
Delta R.T. 0.00 min  
Lab File: BG038721.D  
Acq: 19 Dec 2018 9:48

Tgt Ion:112 Resp: 112856  
Ion Ratio Lower Upper  
112 100  
64 65.8 53.4 80.2  
63 38.7 29.3 43.9





#7

Phenol-d6

Concen: 21.969 ng

RT: 7.21 min Scan# 701

Delta R.T. 0.00 min

Lab File: BG038721.D

Acq: 19 Dec 2018 9:48

Instrument :

BNA\_G

ClientSampleId :

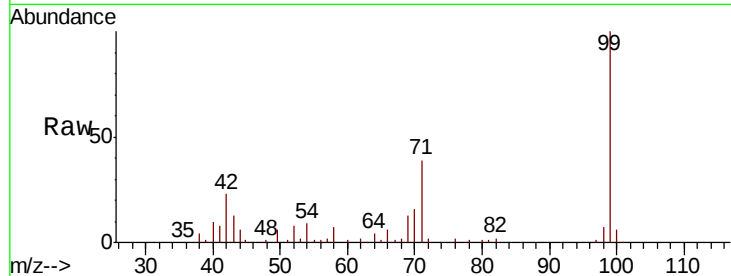
Tot Ion: 99 Resp: 94479

Ion Ratio Lower Upper

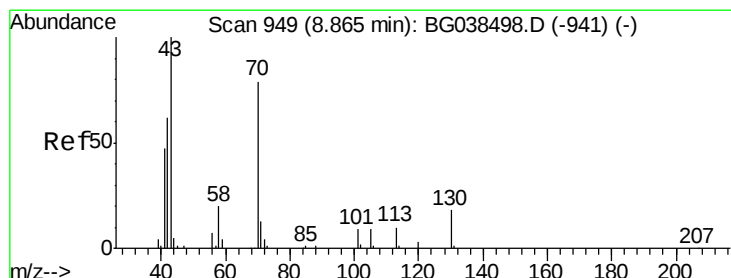
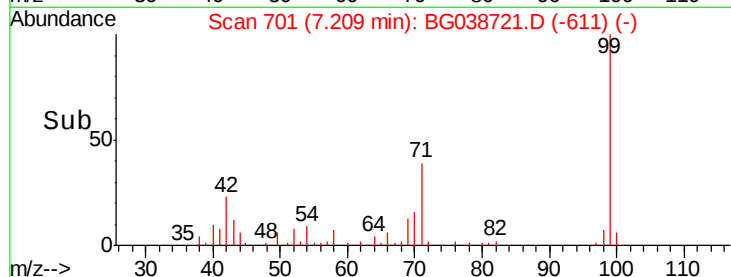
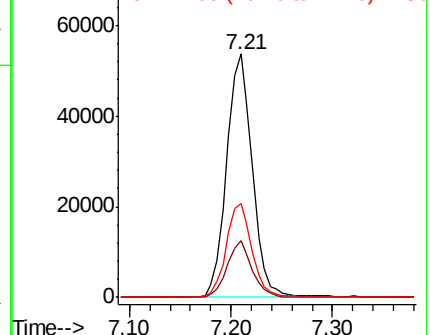
99 100

42 23.1 18.5 27.7

71 38.6 31.1 46.7



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: 10.278 ng

RT: 9.24 min Scan# 1046

Delta R.T. 0.37 min

Lab File: BG038721.D

Acq: 19 Dec 2018 9:48

Tgt Ion: 70 Resp: 31046

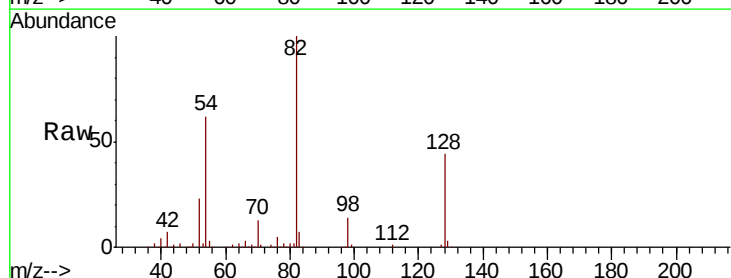
Ion Ratio Lower Upper

70 100

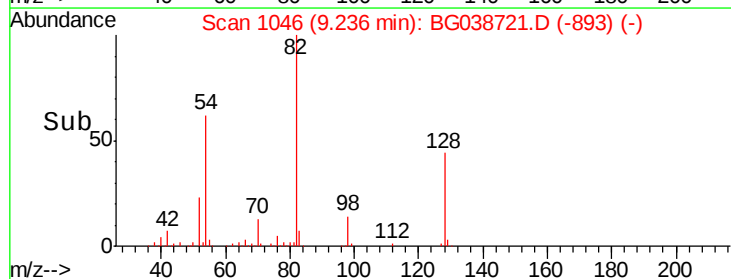
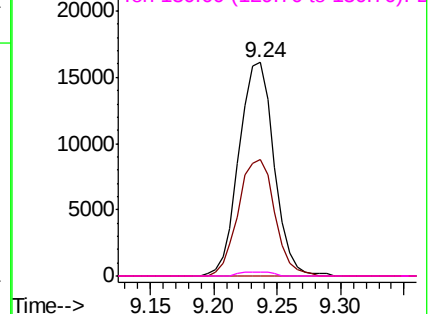
42 54.7 63.6 95.4#

101 0.0 9.2 13.8#

130 1.9 18.5 27.7#



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

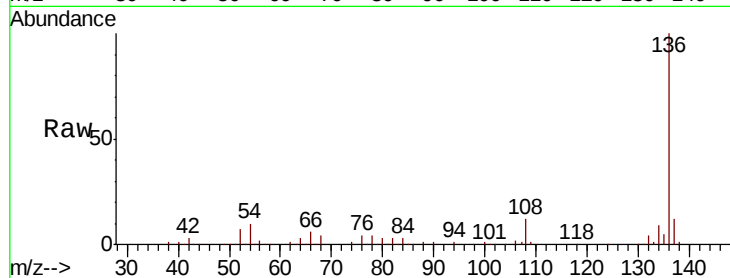




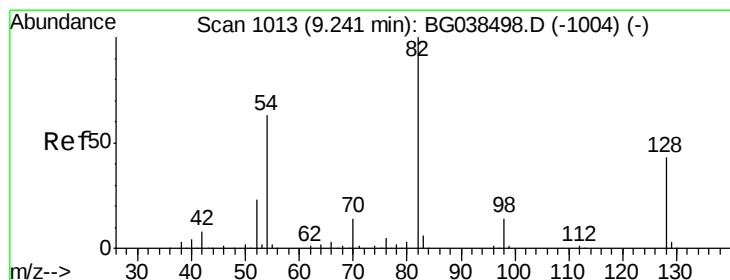
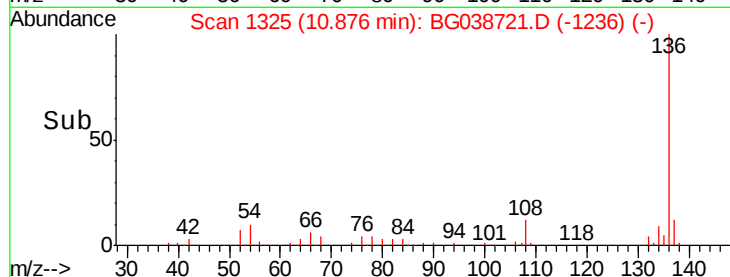
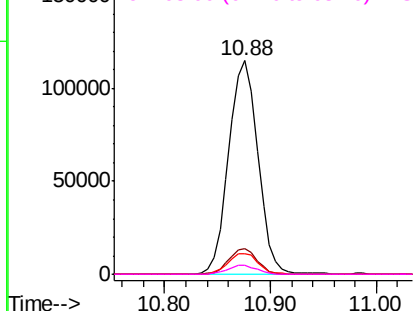
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.88 min Scan# 1325  
Delta R.T. -0.00 min  
Lab File: BG038721.D  
Acq: 19 Dec 2018 9:48

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 220841   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 12.3  | 9.3 13.9 |
| 54          | 9.8   | 8.5 12.7 |
| 68          | 4.3   | 3.5 5.3  |

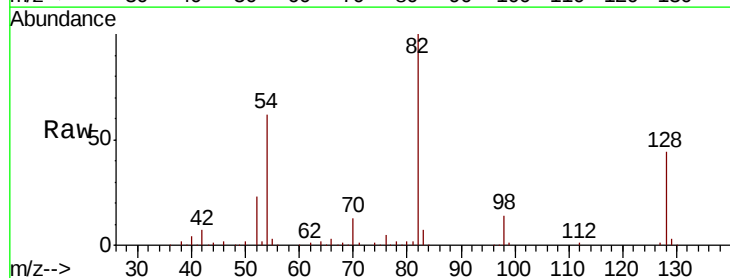


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

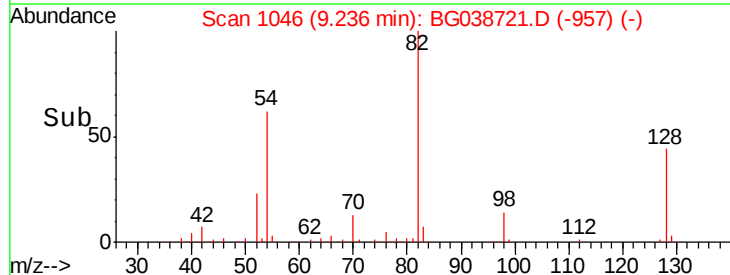
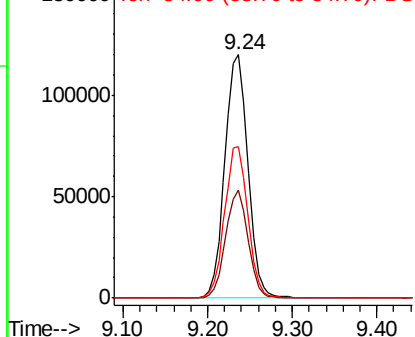


#23  
Nitrobenzene-d5  
Concen: 52.280 ng  
RT: 9.24 min Scan# 1046  
Delta R.T. -0.00 min  
Lab File: BG038721.D  
Acq: 19 Dec 2018 9:48

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 225999    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 44.3  | 34.6 52.0 |
| 54          | 62.0  | 50.6 76.0 |



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





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.69 min Scan# 1975

Delta R.T. -0.00 min

Lab File: BG038721.D

Acq: 19 Dec 2018 9:48

Instrument :

BNA\_G

ClientSampleId :

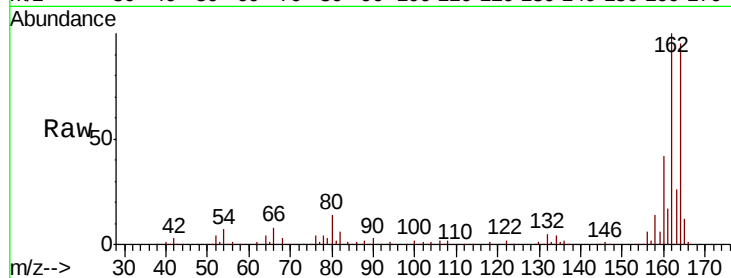
Tot Ion:164 Resp: 151417

Ion Ratio Lower Upper

164 100

162 105.0 86.6 130.0

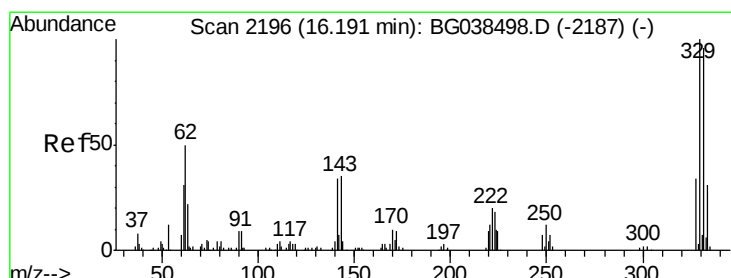
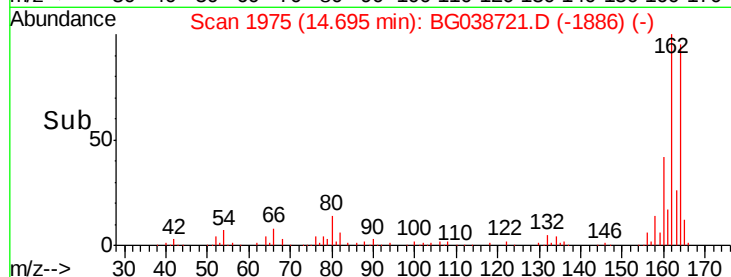
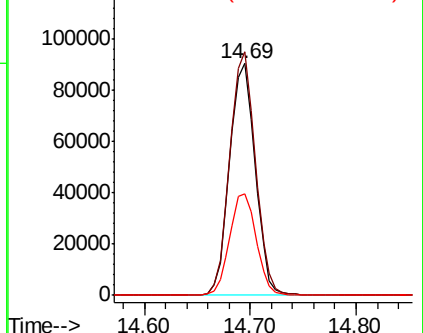
160 44.0 34.2 51.2



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: 87.289 ng

RT: 16.19 min Scan# 2229

Delta R.T. -0.00 min

Lab File: BG038721.D

Acq: 19 Dec 2018 9:48

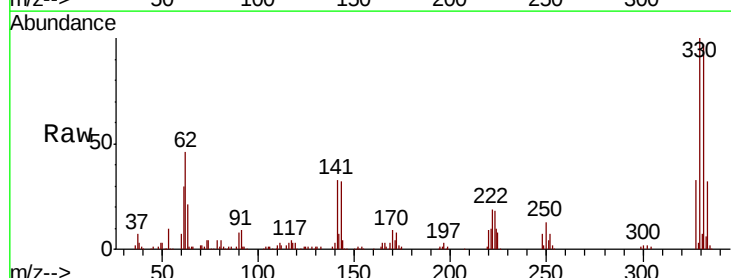
Tgt Ion:330 Resp: 182154

Ion Ratio Lower Upper

330 100

332 95.7 76.9 115.3

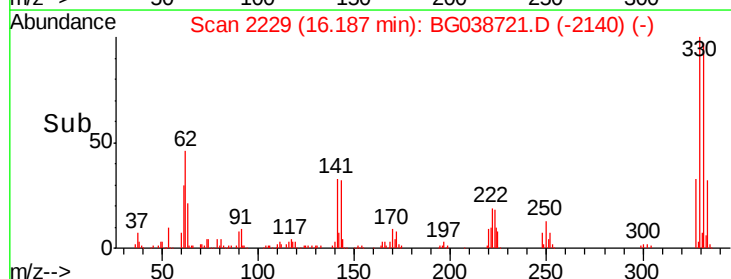
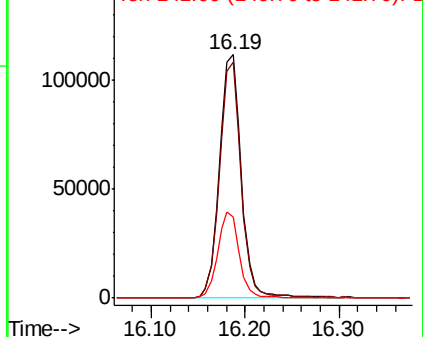
141 34.7 28.8 43.2

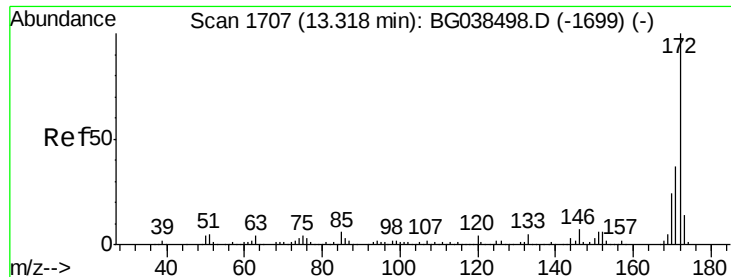


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

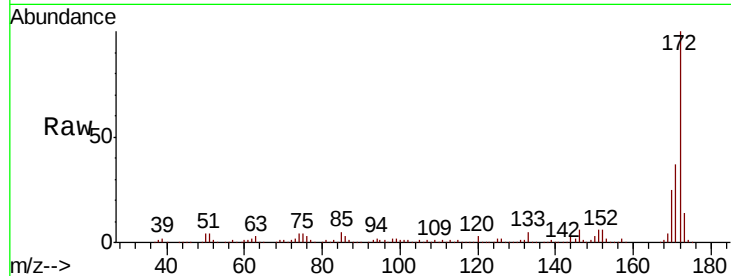




#45  
2-Fluorobiphenyl  
Concen: 52.170 ng  
RT: 13.31 min Scan# 1740  
Delta R.T. -0.00 min  
Lab File: BG038721.D  
Acq: 19 Dec 2018 9:48

Instrument :  
BNA\_G  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.1  | 29.8  | 44.6  |
| 170     | 24.7  | 19.5  | 29.3  |

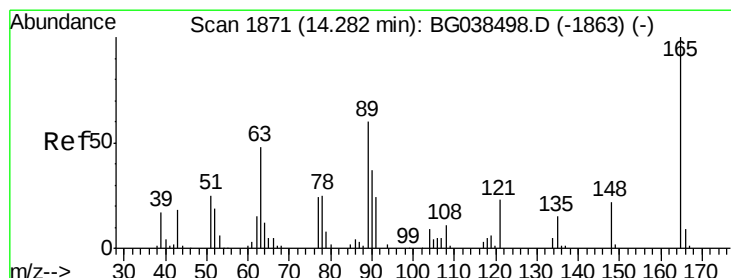
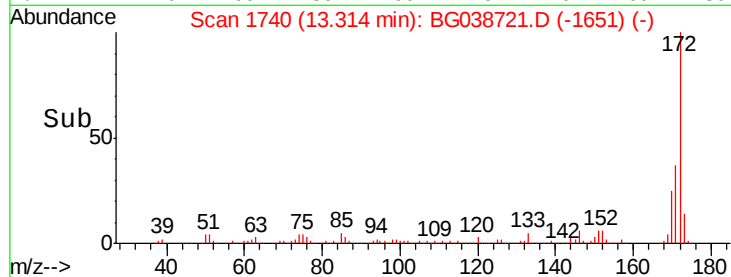
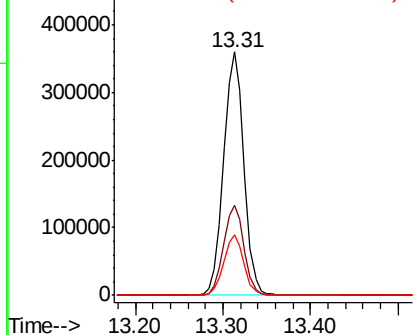


Abundance

Ion 172.00 (171.70 to 172.70): E

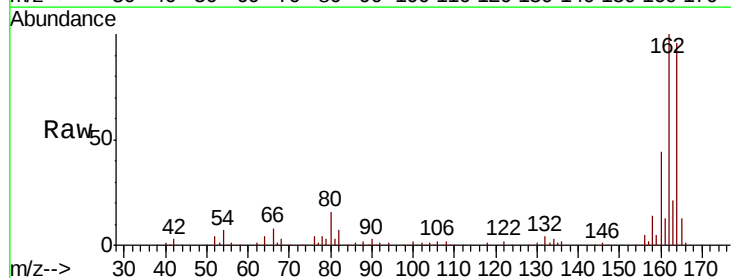
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#51  
2,6-Dinitrotoluene  
Concen: 6.777 ng  
RT: 14.69 min Scan# 1974  
Delta R.T. 0.41 min  
Lab File: BG038721.D  
Acq: 19 Dec 2018 9:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 51.8  | 77.6# |
| 89      | 1.4   | 47.9  | 71.9# |

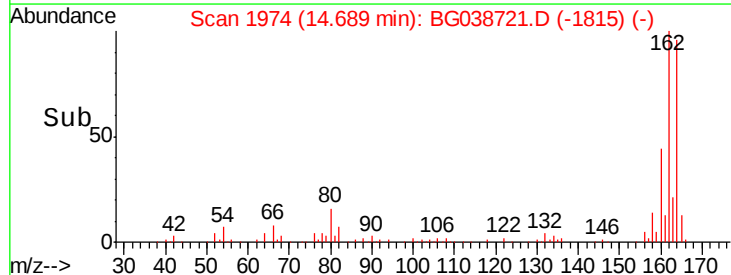
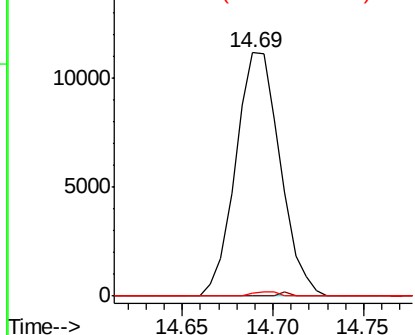


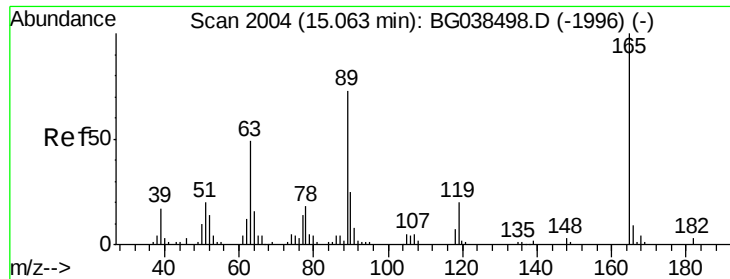
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BG

Ion 89.00 (88.70 to 89.70): BG

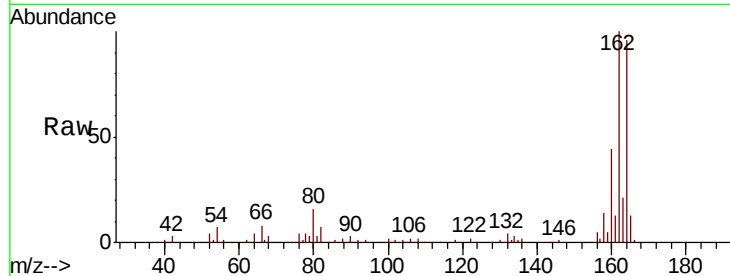




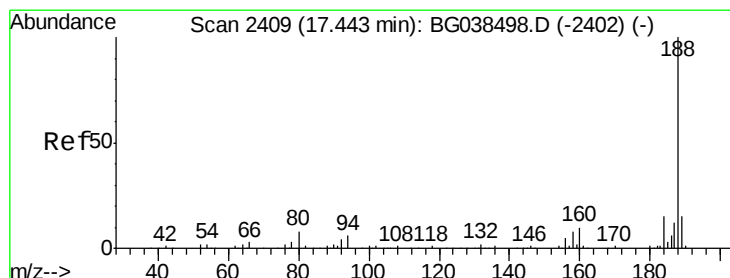
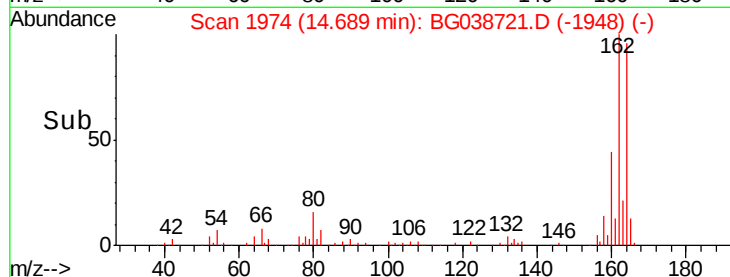
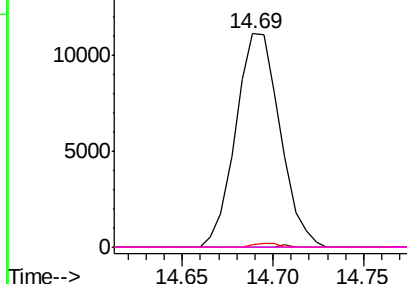
#57  
 2,4-Dinitrotoluene  
 Concen: 4.812 ng  
 RT: 14.69 min Scan# 1974  
 Delta R.T. -0.37 min  
 Lab File: BG038721.D  
 Acq: 19 Dec 2018 9:48

Instrument :  
 BNA\_G  
 ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tot Ion:165 | Resp: | 18991      |
| Ion Ratio   | Lower | Upper      |
| 165         | 100   |            |
| 63          | 0.0   | 39.0 58.4# |
| 89          | 1.4   | 58.0 87.0# |
| 182         | 0.0   | 2.3 3.5#   |

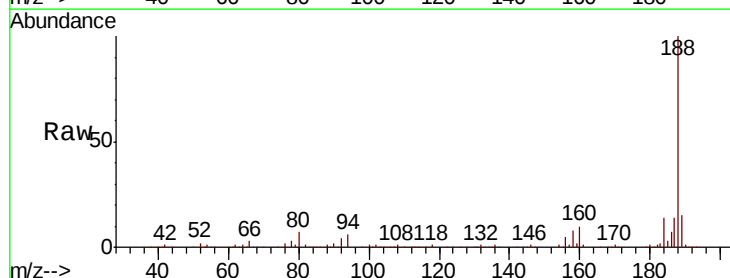


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 89.00 (88.70 to 89.70): BGC  
 Ion 182.00 (181.70 to 182.70): E

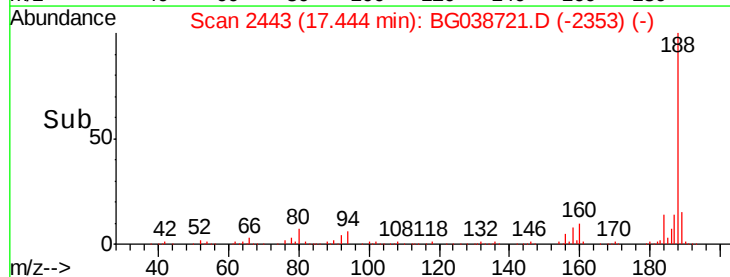
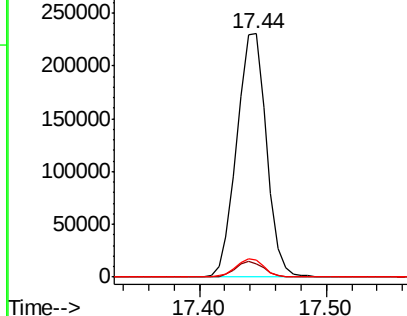


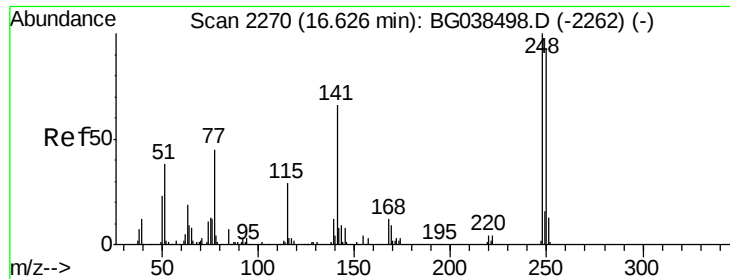
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.44 min Scan# 2443  
 Delta R.T. 0.00 min  
 Lab File: BG038721.D  
 Acq: 19 Dec 2018 9:48

|             |       |         |
|-------------|-------|---------|
| Tgt Ion:188 | Resp: | 374150  |
| Ion Ratio   | Lower | Upper   |
| 188         | 100   |         |
| 94          | 5.7   | 5.1 7.7 |
| 80          | 6.8   | 6.1 9.1 |



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: 2.627 ng

RT: 16.18 min Scan# 2228

Delta R.T. -0.44 min

Lab File: BG038721.D

Acq: 19 Dec 2018 9:48

Instrument :

BNA\_G

ClientSampleId :

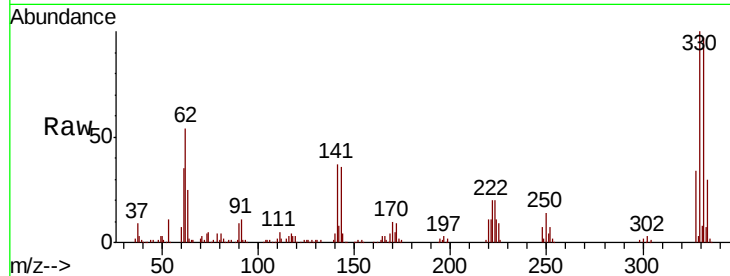
Tot Ion:248 Resp: 12006

Ion Ratio Lower Upper

248 100

250 195.3 73.4 110.2#

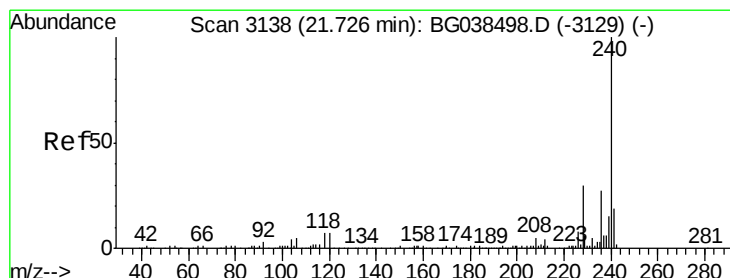
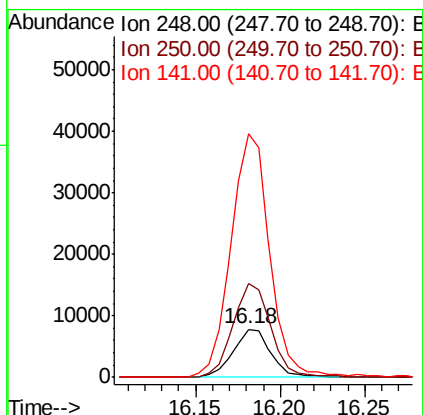
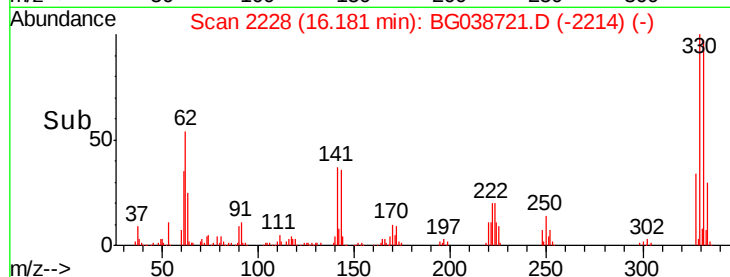
141 391.1 52.9 79.3#



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



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.72 min Scan# 3171

Delta R.T. -0.00 min

Lab File: BG038721.D

Acq: 19 Dec 2018 9:48

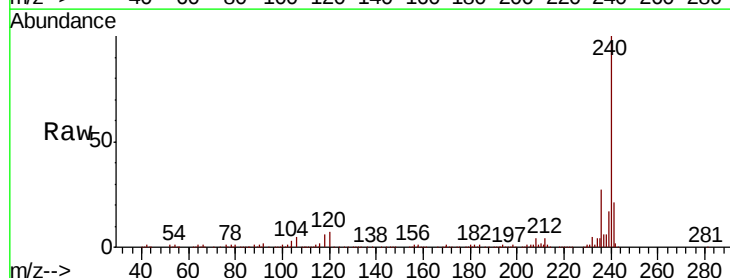
Tgt Ion:240 Resp: 394610

Ion Ratio Lower Upper

240 100

120 6.5 5.3 7.9

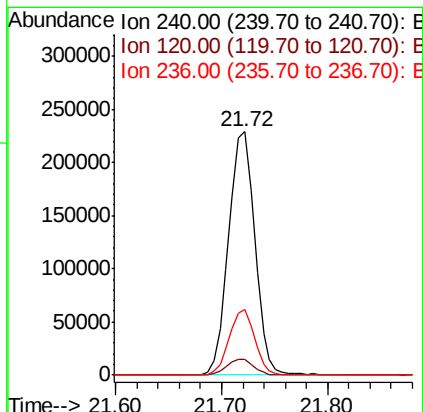
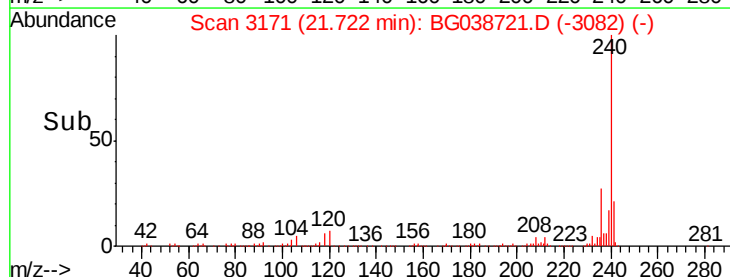
236 26.9 21.4 32.2

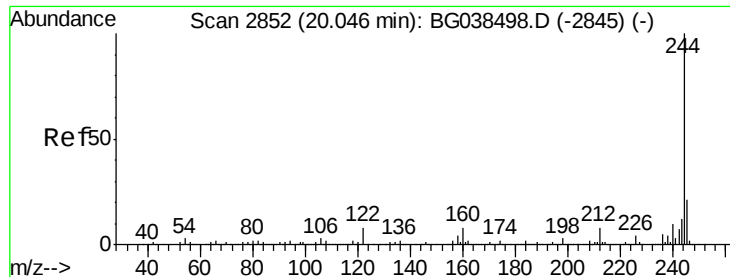


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#79

Terphenyl-d14

Concen: 57.517 ng

RT: 20.05 min Scan# 2886

Delta R.T. 0.00 min

Lab File: BG038721.D

Acq: 19 Dec 2018 9:48

Instrument :

BNA\_G

ClientSampled :

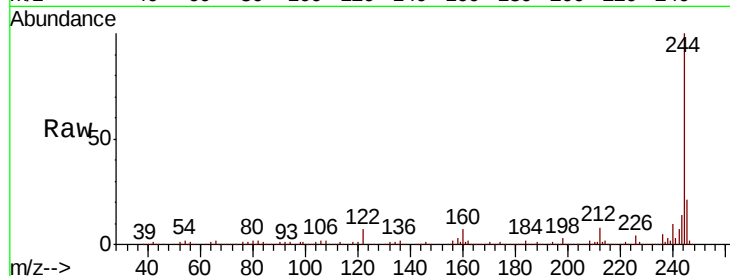
Tot Ion:244 Resp: 1042896

Ion Ratio Lower Upper

244 100

212 7.9 6.2 9.2

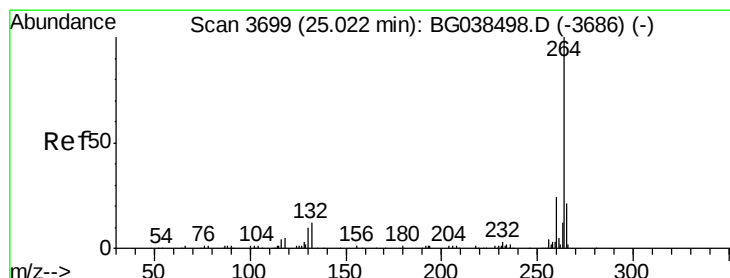
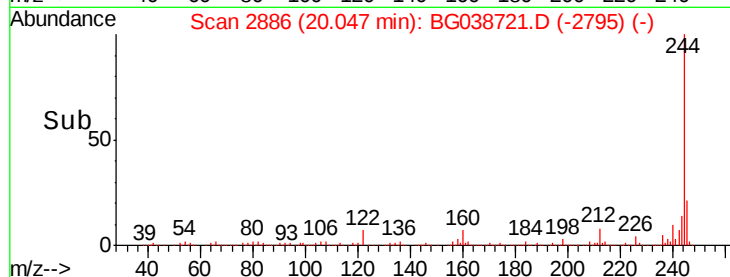
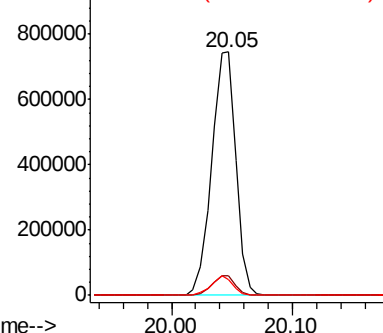
122 6.6 6.3 9.5



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: 25.02 min Scan# 3732

Delta R.T. -0.00 min

Lab File: BG038721.D

Acq: 19 Dec 2018 9:48

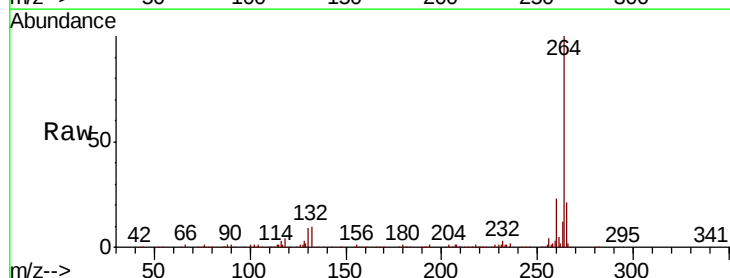
Tgt Ion:264 Resp: 412620

Ion Ratio Lower Upper

264 100

260 23.4 18.9 28.3

265 21.5 17.0 25.4



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

