

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG121418\  
 Data File : BG038579.D  
 Acq On : 14 Dec 2018 22:25  
 Operator : JU/SJ  
 Sample : PB115428BL  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB115428BL

Quant Time: Dec 14 23:28:10 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

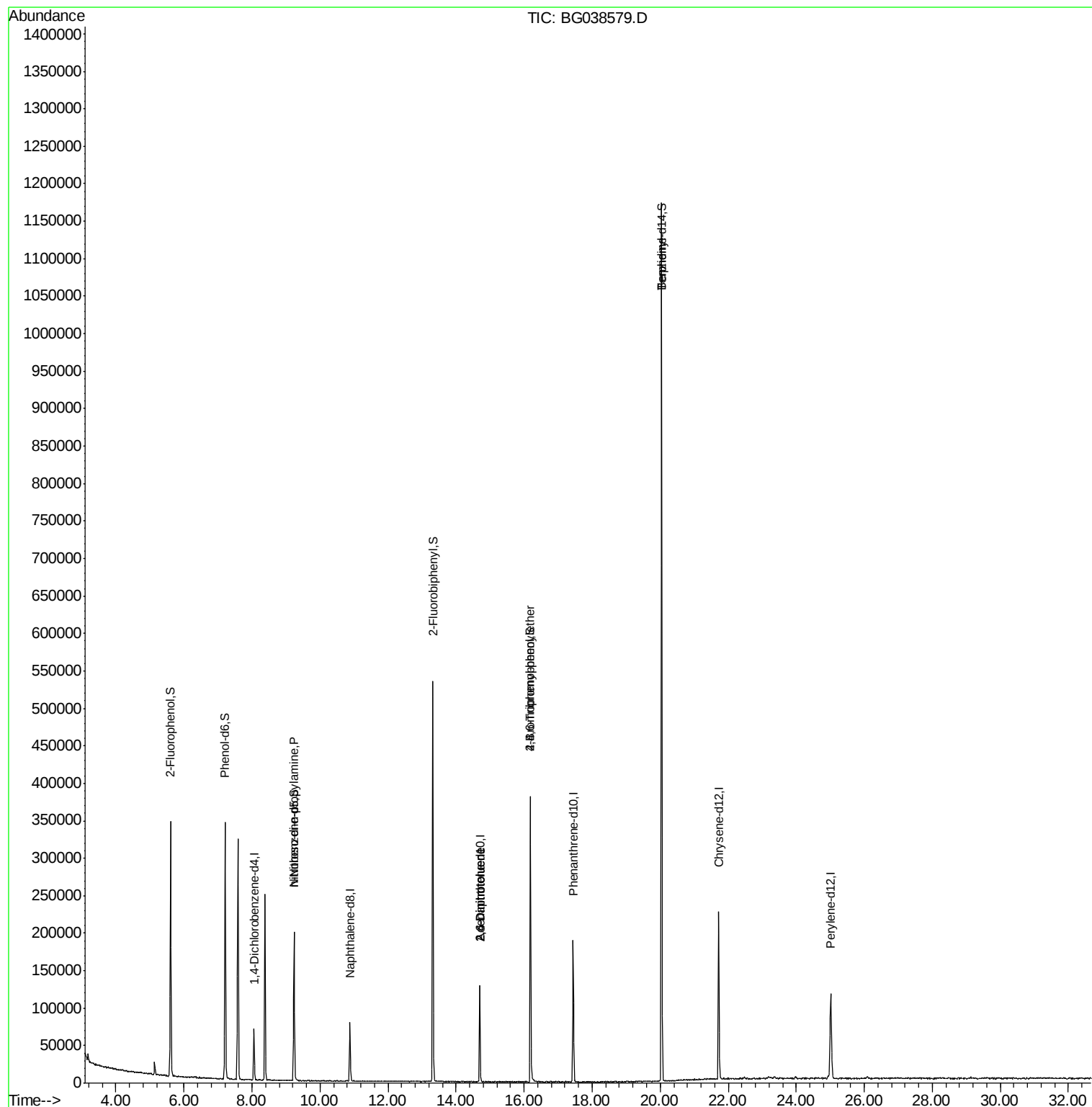
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.06  | 152  | 19776    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.87 | 136  | 75168    | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.70 | 164  | 48814    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.44 | 188  | 126745   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.72 | 240  | 138718   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 25.02 | 264  | 145985   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.61  | 112  | 143605   | 128.80 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.21  | 99   | 192089   | 125.49 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.23  | 82   | 121286   | 82.43  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.18 | 330  | 79755    | 118.55 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.32 | 172  | 296970   | 83.46  | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.04 | 244  | 598746   | 93.94  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.23  | 70   | 16457    | 15.308 | ng    | # 71     |
| 51) 2,6-Dinitrotoluene         | 14.69 | 165  | 6307     | 6.982  | ng    | # 19     |
| 57) 2,4-Dinitrotoluene         | 14.69 | 165  | 6307     | 4.957  | ng    | # 21     |
| 67) 4-Bromophenyl-phenylether  | 16.18 | 248  | 5449     | 3.520  | ng    | # 1      |
| 77) Benzidine                  | 20.04 | 184  | 9942     | 2.423  | ng    | # 93     |

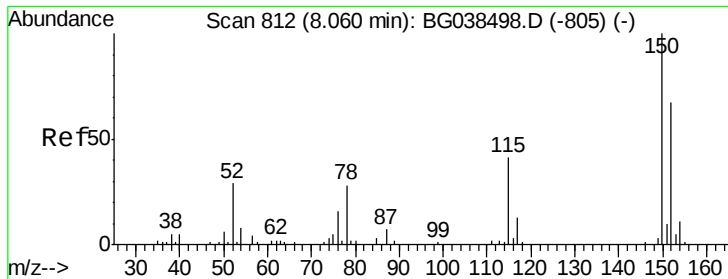
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG121418\  
Data File : BG038579.D  
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Sample : PB115428BL  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_G  
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PB115428BL

Quant Time: Dec 14 23:28:10 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

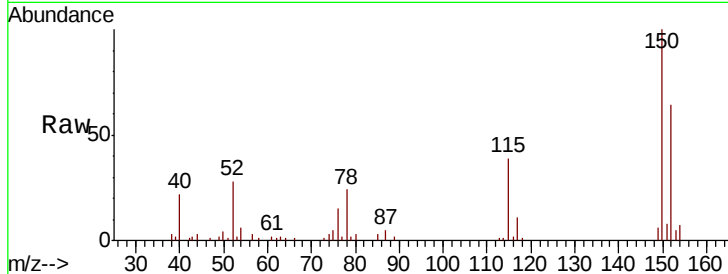




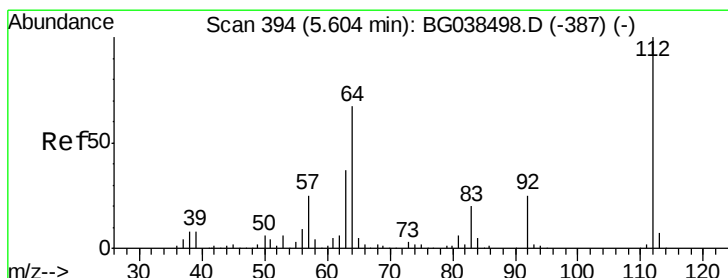
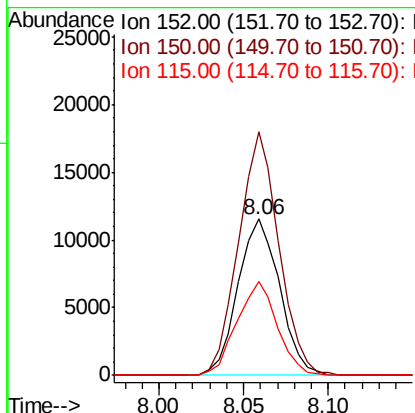
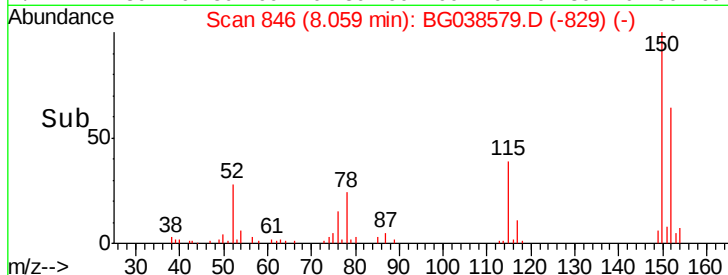
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.06 min Scan# 846  
 Delta R.T. -0.00 min  
 Lab File: BG038579.D  
 Acq: 14 Dec 2018 22:25

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB115428BL

Tgt Ion:152 Resp: 19776  
 Ion Ratio Lower Upper  
 152 100  
 150 155.9 119.5 179.3  
 115 60.3 49.6 74.4

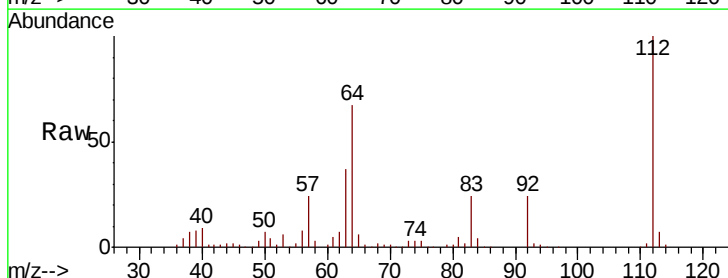


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

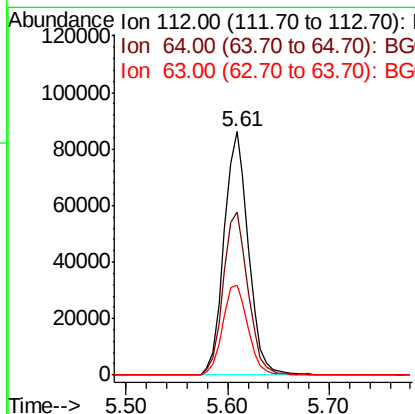
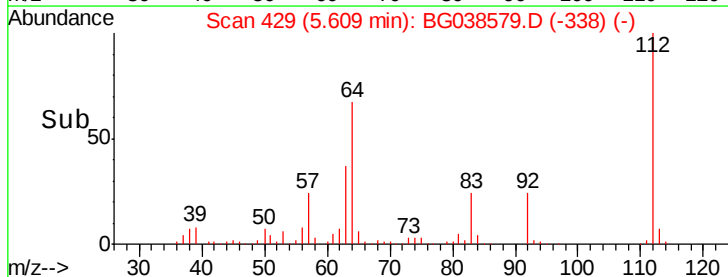


#5  
 2-Fluorophenol  
 Concen: 128.795 ng  
 RT: 5.61 min Scan# 429  
 Delta R.T. 0.01 min  
 Lab File: BG038579.D  
 Acq: 14 Dec 2018 22:25

Tgt Ion:112 Resp: 143605  
 Ion Ratio Lower Upper  
 112 100  
 64 67.1 53.4 80.2  
 63 37.2 29.3 43.9



Abundance Ion 112.00 (111.70 to 112.70): E  
 Ion 64.00 (63.70 to 64.70): BG  
 Ion 63.00 (62.70 to 63.70): BG





#7

Phenol-d6

Concen: 125.494 ng

RT: 7.21 min Scan# 702

Delta R.T. 0.01 min

Lab File: BG038579.D

Acq: 14 Dec 2018 22:25

Instrument :

BNA\_G

ClientSampled :

PB115428BL

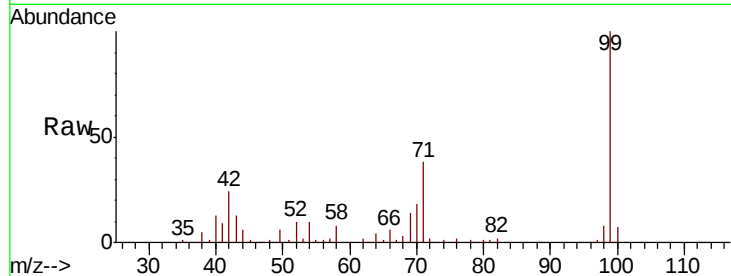
Tgt Ion: 99 Resp: 192089

Ion Ratio Lower Upper

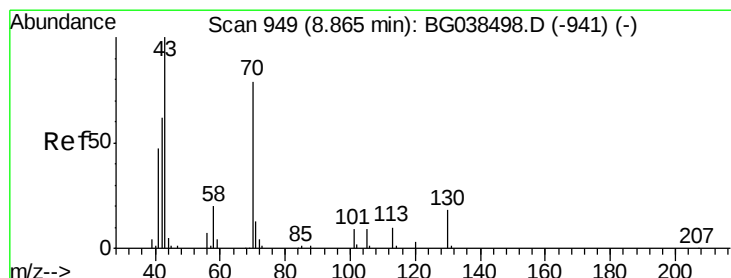
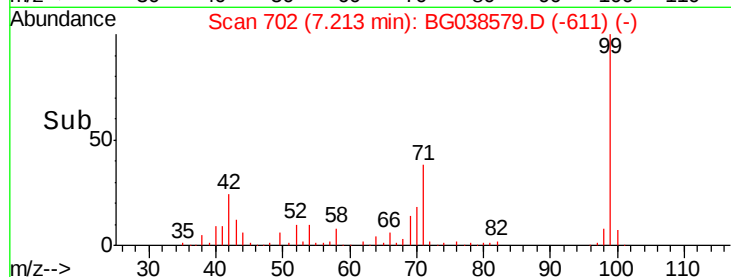
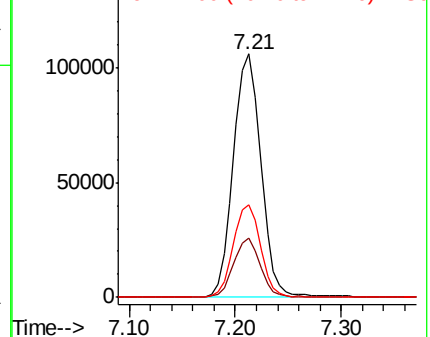
99 100

42 24.4 18.5 27.7

71 38.3 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: 15.308 ng

RT: 9.23 min Scan# 1046

Delta R.T. 0.37 min

Lab File: BG038579.D

Acq: 14 Dec 2018 22:25

Tgt Ion: 70 Resp: 16457

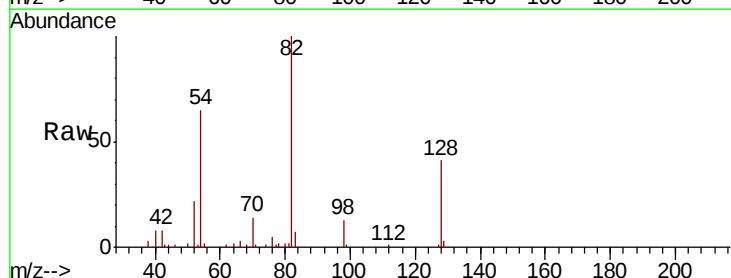
Ion Ratio Lower Upper

70 100

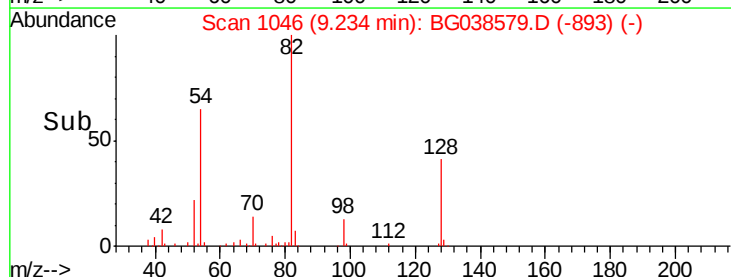
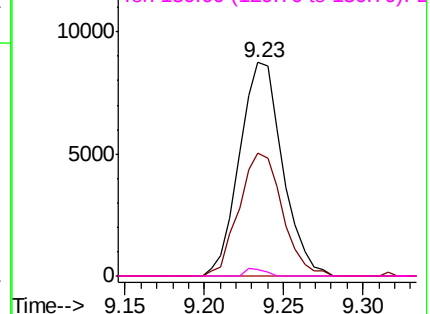
42 57.3 63.6 95.4#

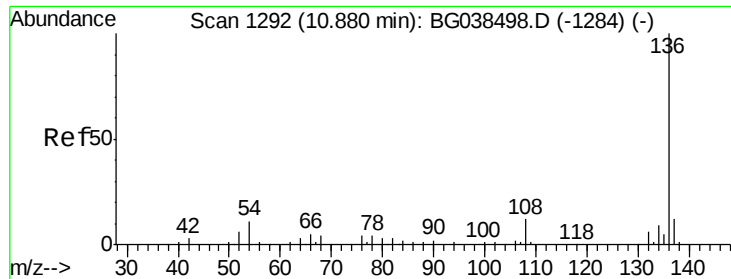
101 0.0 9.2 13.8#

130 2.9 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

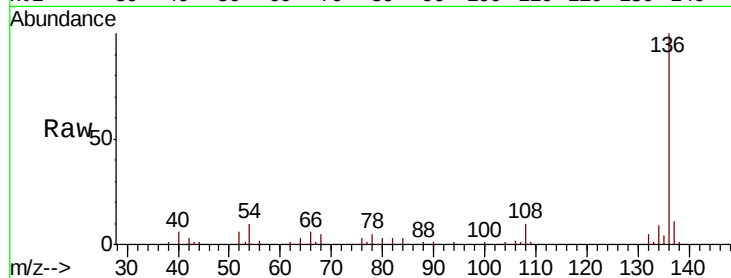




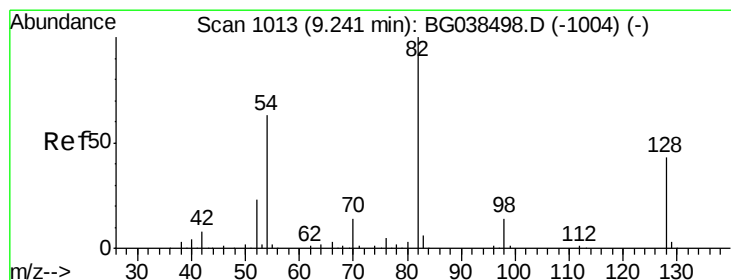
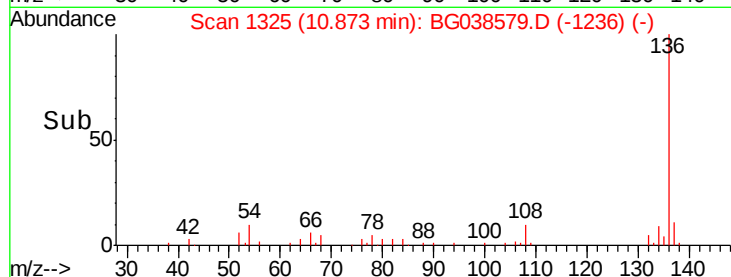
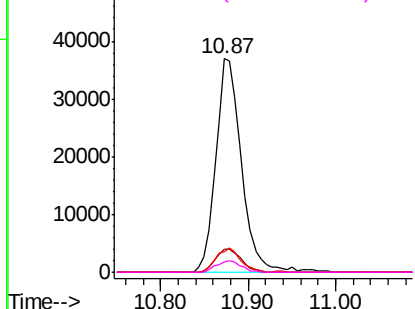
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.87 min Scan# 1325  
Delta R.T. -0.01 min  
Lab File: BG038579.D  
Acq: 14 Dec 2018 22:25

Instrument :  
BNA\_G  
ClientSampleId :  
PB115428BL

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 75168 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 10.9  | 9.3   | 13.9  |
| 54       | 9.8   | 8.5   | 12.7  |
| 68       | 4.6   | 3.5   | 5.3   |

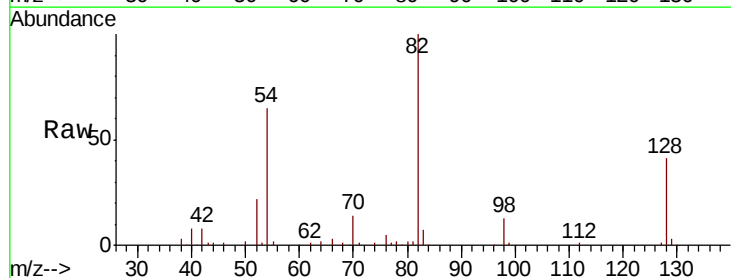


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

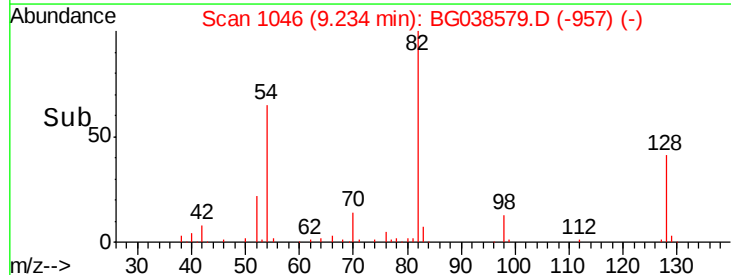
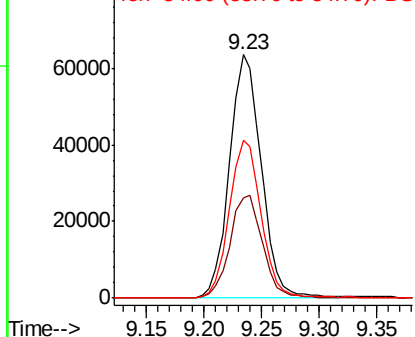


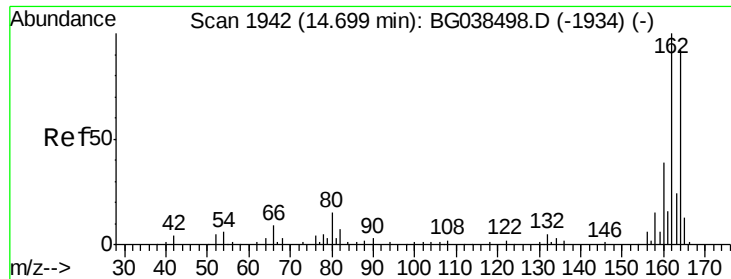
#23  
Nitrobenzene-d5  
Concen: 82.431 ng  
RT: 9.23 min Scan# 1046  
Delta R.T. -0.01 min  
Lab File: BG038579.D  
Acq: 14 Dec 2018 22:25

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 121286 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 41.2  | 34.6  | 52.0   |
| 54       | 65.0  | 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: 14.70 min Scan# 1976

Delta R.T. -0.00 min

Lab File: BG038579.D

Acq: 14 Dec 2018 22:25

Instrument :

BNA\_G

ClientSampleId :

PB115428BL

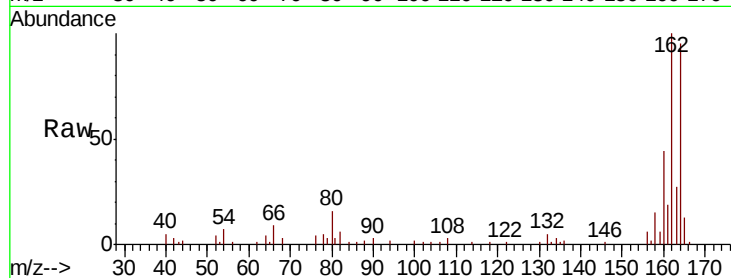
Tgt Ion:164 Resp: 48814

Ion Ratio Lower Upper

164 100

162 105.0 86.6 130.0

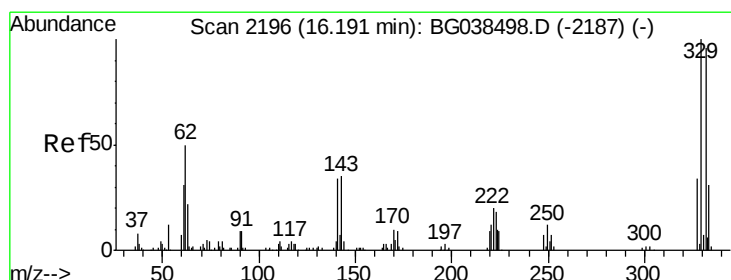
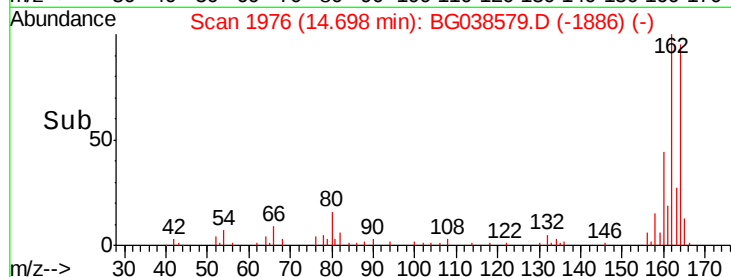
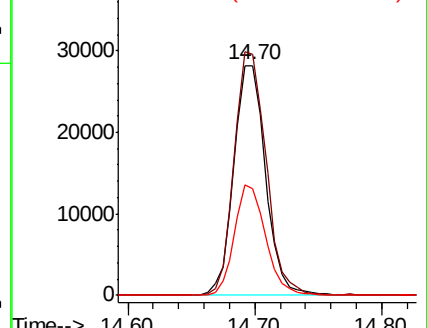
160 46.2 34.2 51.2



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: 118.552 ng

RT: 16.18 min Scan# 2229

Delta R.T. -0.01 min

Lab File: BG038579.D

Acq: 14 Dec 2018 22:25

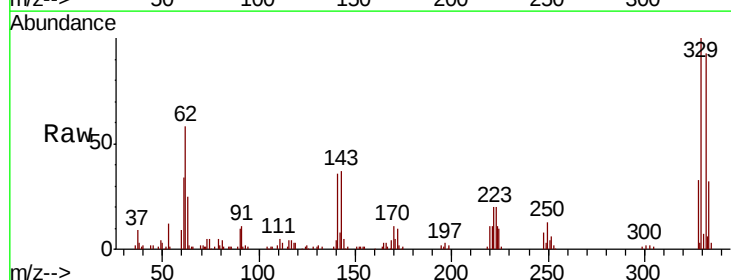
Tgt Ion:330 Resp: 79755

Ion Ratio Lower Upper

330 100

332 94.4 76.9 115.3

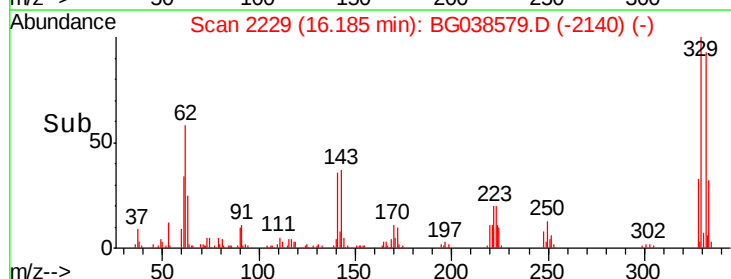
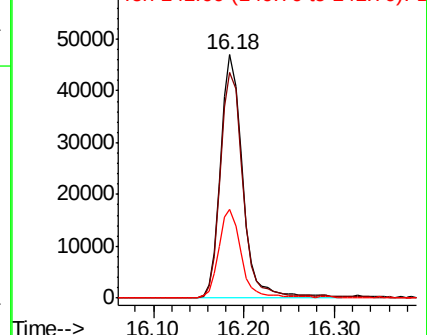
141 37.2 28.8 43.2



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

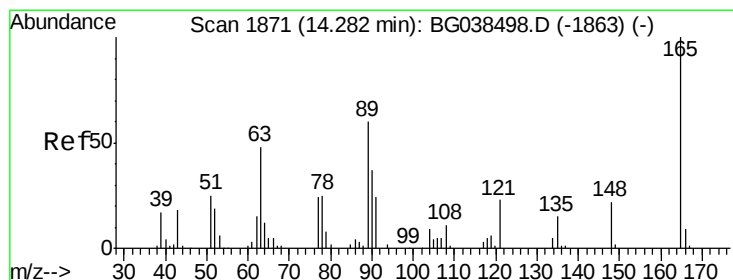
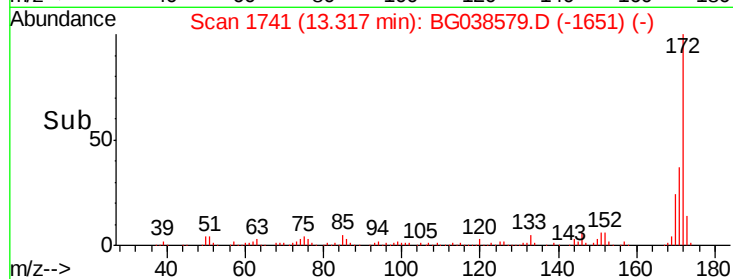
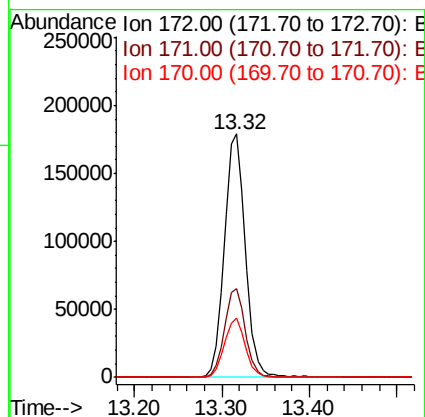
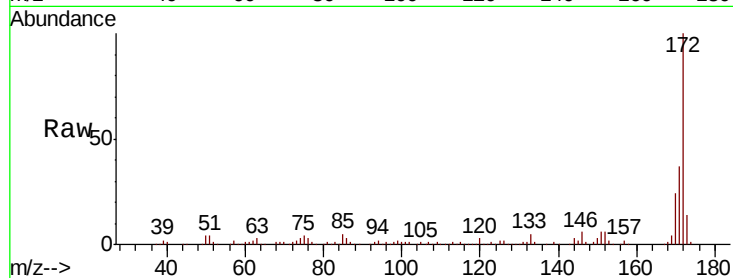




#45  
 2-Fluorobiphenyl  
 Concen: 83.459 ng  
 RT: 13.32 min Scan# 1741  
 Delta R.T. -0.00 min  
 Lab File: BG038579.D  
 Acq: 14 Dec 2018 22:25

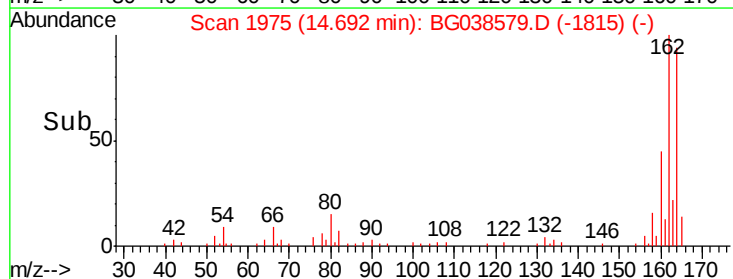
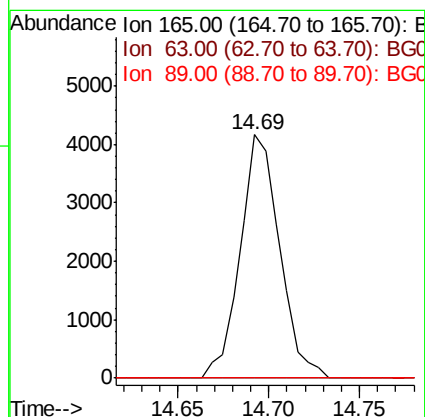
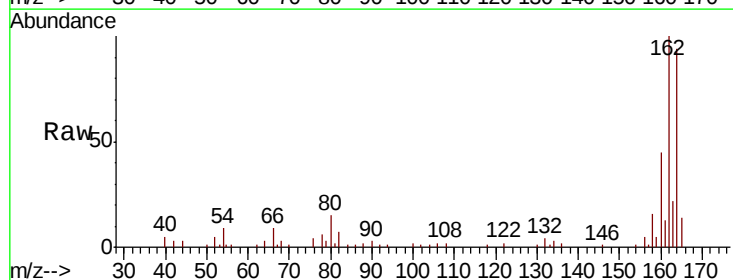
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB115428BL

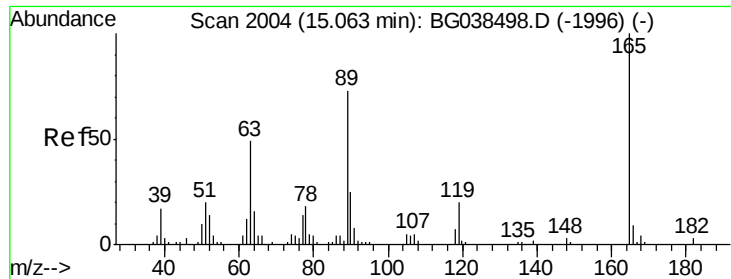
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.6  | 29.8  | 44.6  |
| 170     | 24.3  | 19.5  | 29.3  |



#51  
 2,6-Dinitrotoluene  
 Concen: 6.982 ng  
 RT: 14.69 min Scan# 1975  
 Delta R.T. 0.41 min  
 Lab File: BG038579.D  
 Acq: 14 Dec 2018 22:25

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

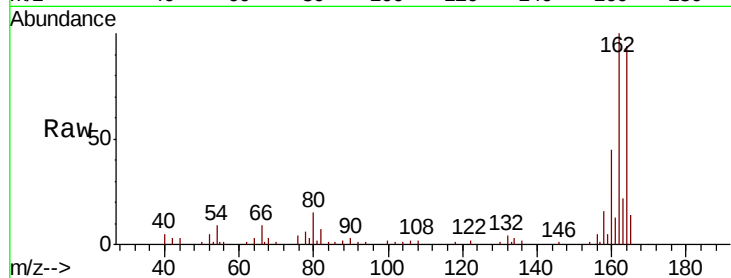




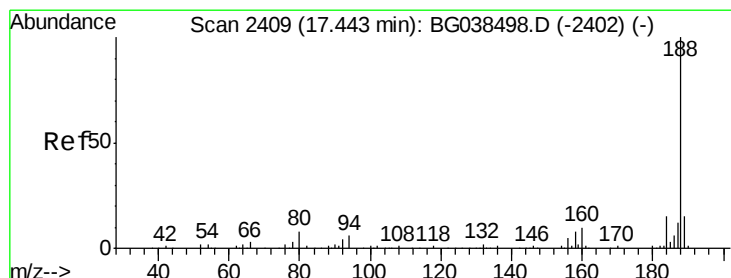
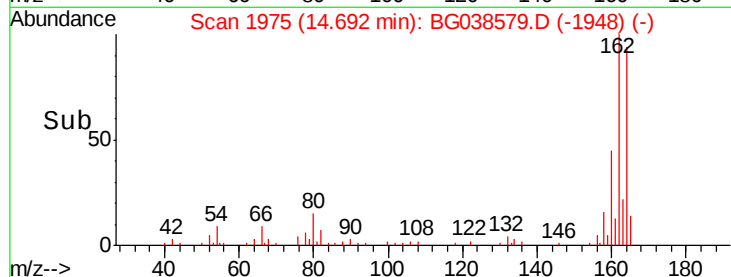
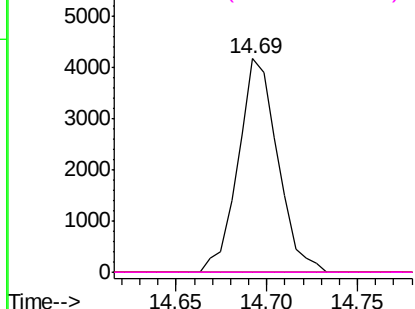
#57  
2,4-Dinitrotoluene  
Concen: 4.957 ng  
RT: 14.69 min Scan# 1975  
Delta R.T. -0.37 min  
Lab File: BG038579.D  
Acq: 14 Dec 2018 22:25

Instrument :  
BNA\_G  
ClientSampleId :  
PB115428BL

Tgt Ion:165 Resp: 6307  
Ion Ratio Lower Upper  
165 100  
63 0.0 39.0 58.4#  
89 0.0 58.0 87.0#  
182 0.0 2.3 3.5#

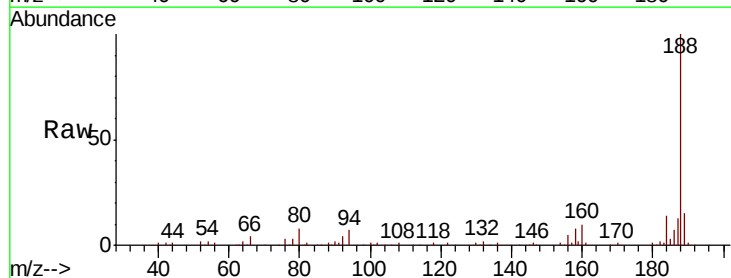


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 89.00 (88.70 to 89.70): BGC  
Ion 182.00 (181.70 to 182.70): E

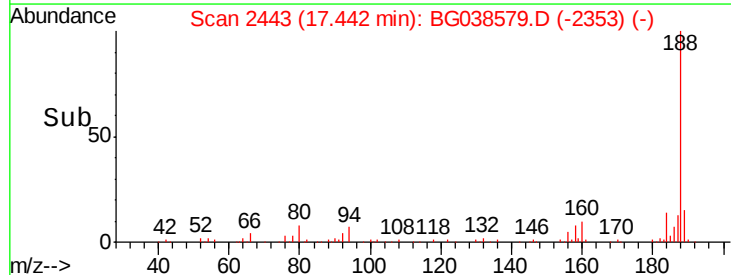
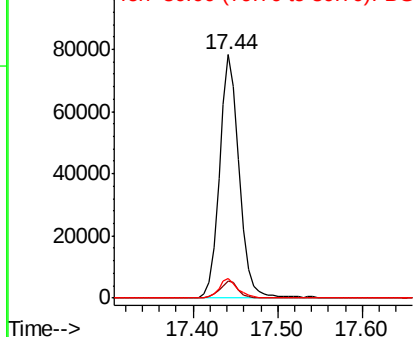


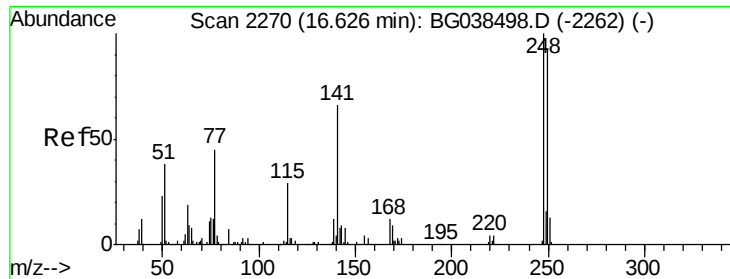
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.44 min Scan# 2443  
Delta R.T. -0.00 min  
Lab File: BG038579.D  
Acq: 14 Dec 2018 22:25

Tgt Ion:188 Resp: 126745  
Ion Ratio Lower Upper  
188 100  
94 7.0 5.1 7.7  
80 8.0 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

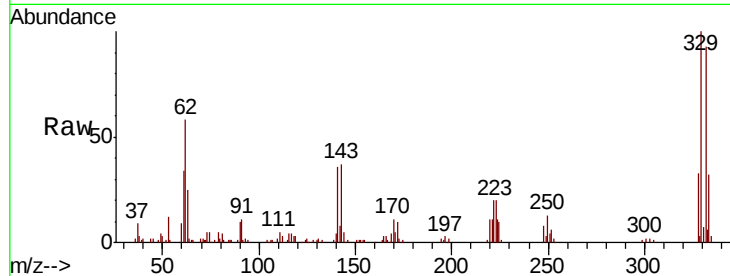




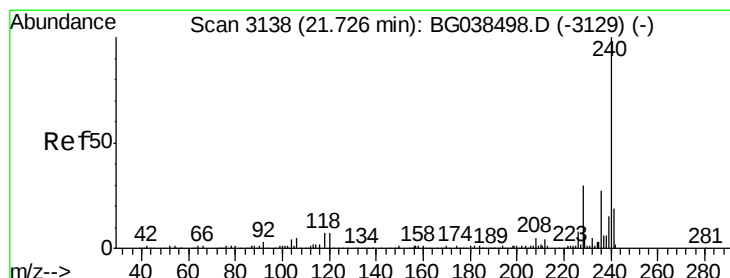
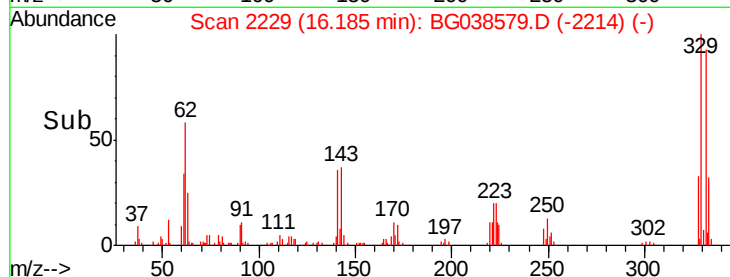
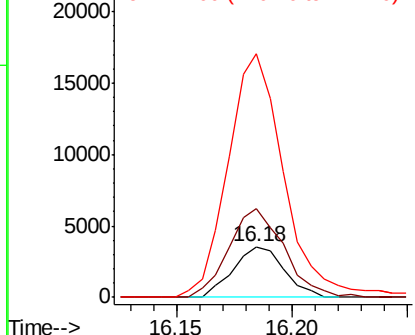
#67  
 4-Bromophenyl-phenylether  
 Concen: 3.520 ng  
 RT: 16.18 min Scan# 2229  
 Delta R.T. -0.44 min  
 Lab File: BG038579.D  
 Acq: 14 Dec 2018 22:25

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB115428BL

Tgt Ion:248 Resp: 5449  
 Ion Ratio Lower Upper  
 248 100  
 250 227.5 73.4 110.2#  
 141 481.1 52.9 79.3#

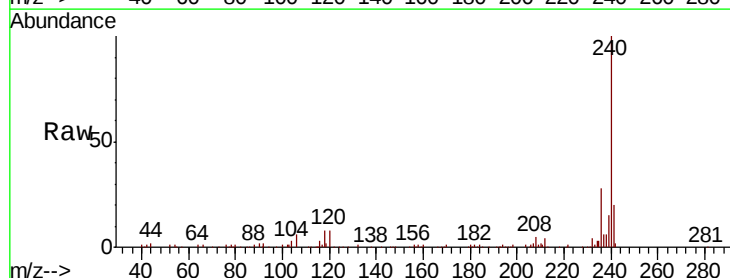


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

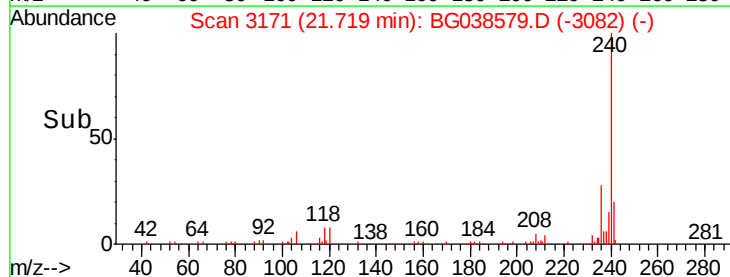
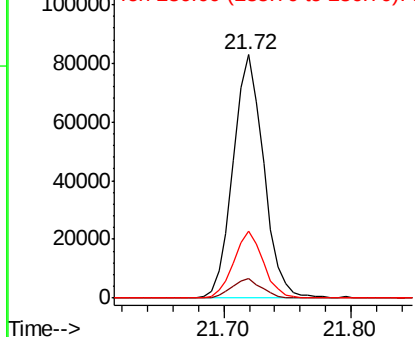


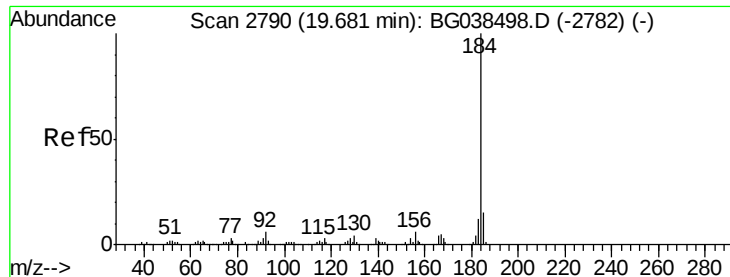
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.72 min Scan# 3171  
 Delta R.T. -0.01 min  
 Lab File: BG038579.D  
 Acq: 14 Dec 2018 22:25

Tgt Ion:240 Resp: 138718  
 Ion Ratio Lower Upper  
 240 100  
 120 8.2 5.3 7.9#  
 236 27.5 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





#77

Benzidine

Concen: 2.423 ng

RT: 20.04 min Scan# 2886

Delta R.T. 0.36 min

Lab File: BG038579.D

Acq: 14 Dec 2018 22:25

Instrument :

BNA\_G

ClientSampleId :

PB115428BL

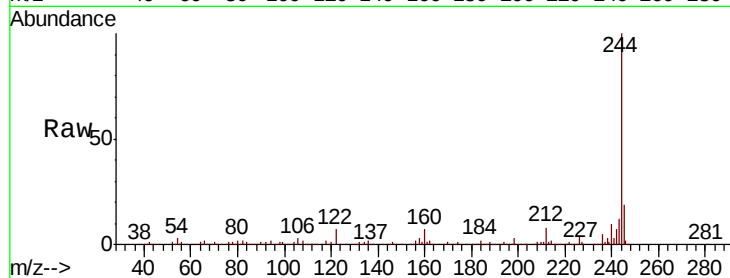
Tgt Ion:184 Resp: 9942

Ion Ratio Lower Upper

184 100

185 18.1 12.2 18.2

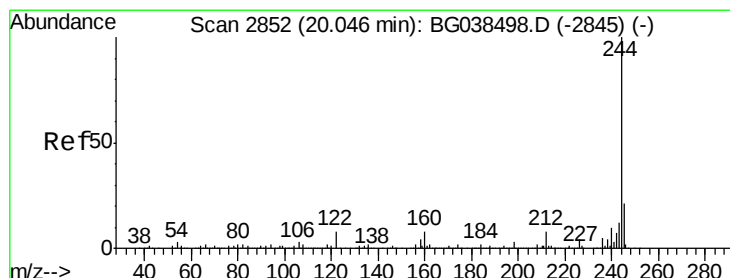
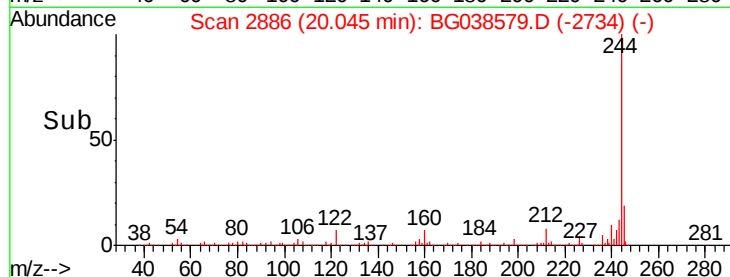
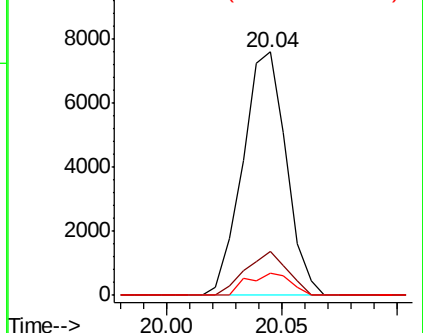
183 9.2 9.6 14.4#



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: 93.937 ng

RT: 20.04 min Scan# 2886

Delta R.T. -0.00 min

Lab File: BG038579.D

Acq: 14 Dec 2018 22:25

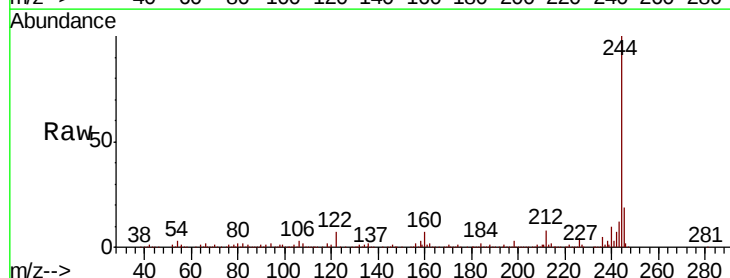
Tgt Ion:244 Resp: 598746

Ion Ratio Lower Upper

244 100

212 7.6 6.2 9.2

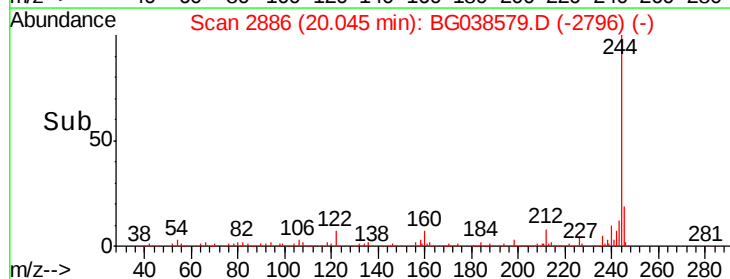
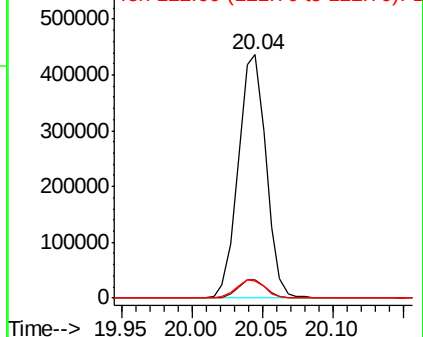
122 7.1 6.3 9.5

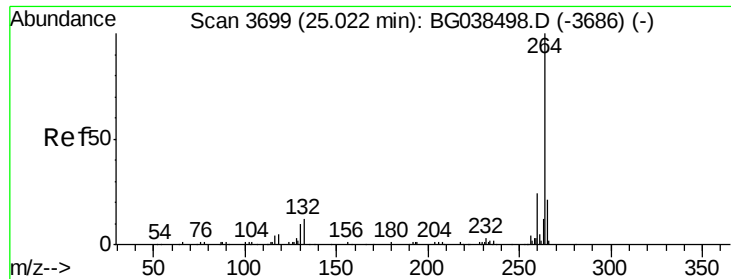


Abundance Ion 244.00 (243.70 to 244.70): E

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. -0.01 min  
Lab File: BG038579.D  
Acq: 14 Dec 2018 22:25

Instrument :  
BNA\_G  
ClientSampleId :  
PB115428BL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.4  | 18.9  | 28.3  |
| 265     | 19.8  | 17.0  | 25.4  |

