

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG010419\  
 Data File : BG038950.D  
 Acq On : 5 Jan 2019 5:36  
 Operator : JU/SJ  
 Sample : PB116155BL  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jan 06 22:43:15 2019  
 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

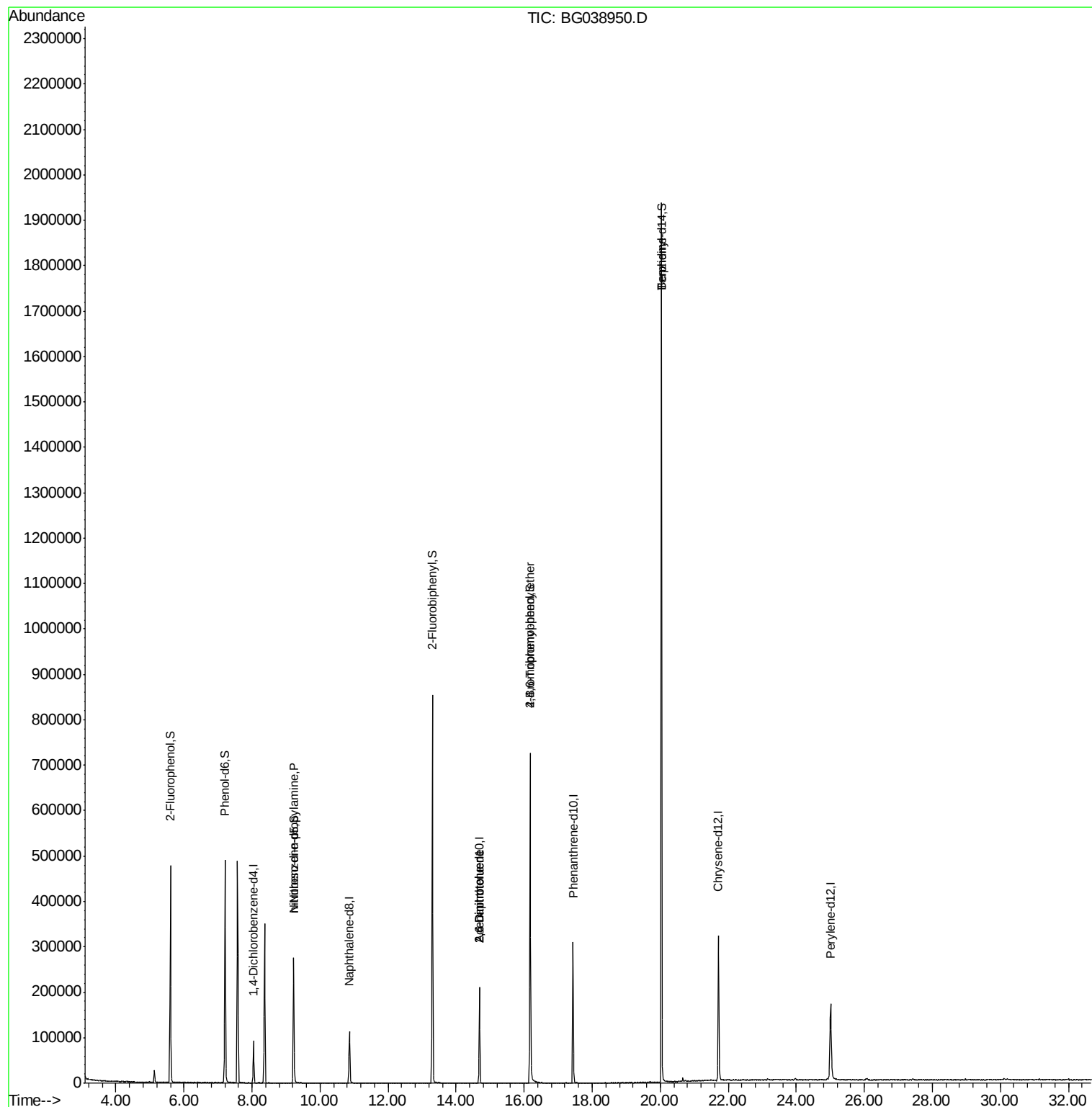
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.05  | 152  | 27101    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 10.86 | 136  | 108230   | 20.00  | ng    | -0.02    |
| 39) Acenaphthene-d10           | 14.69 | 164  | 77914    | 20.00  | ng    | -0.01    |
| 64) Phenanthrene-d10           | 17.44 | 188  | 211015   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.71 | 240  | 213220   | 20.00  | ng    | -0.01    |
| 87) Perylene-d12               | 25.01 | 264  | 220858   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.60  | 112  | 209797   | 137.30 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.21  | 99   | 284880   | 135.81 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.23  | 82   | 171527   | 80.96  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol       | 16.18 | 330  | 162869   | 151.68 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 13.30 | 172  | 477054   | 84.00  | ng    | -0.01    |
| 79) Terphenyl-d14              | 20.04 | 244  | 974478   | 99.46  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.23  | 70   | 23719    | 16.100 | ng    | # 62     |
| 51) 2,6-Dinitrotoluene         | 14.69 | 165  | 9976     | 6.919  | ng    | # 19     |
| 57) 2,4-Dinitrotoluene         | 14.69 | 165  | 9976     | 4.912  | ng    | # 21     |
| 67) 4-Bromophenyl-phenylether  | 16.18 | 248  | 10653    | 4.134  | ng    | # 1      |
| 77) Benzidine                  | 20.04 | 184  | 15885    | 2.519  | ng    | # 93     |

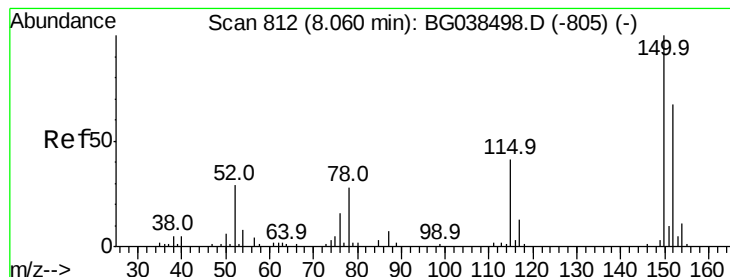
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_G  
ClientSampleId :

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 12 15:26:27 2018  
Response via : Initial Calibration



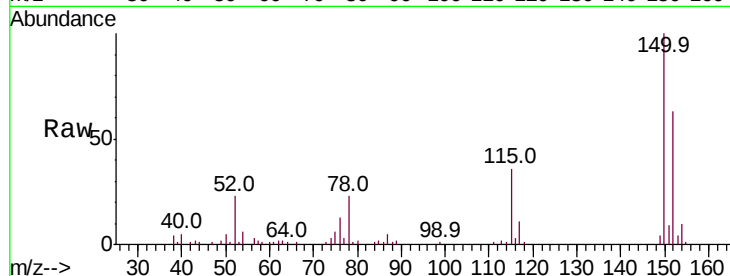


#1

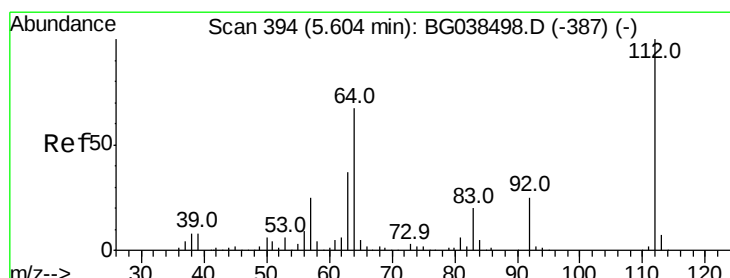
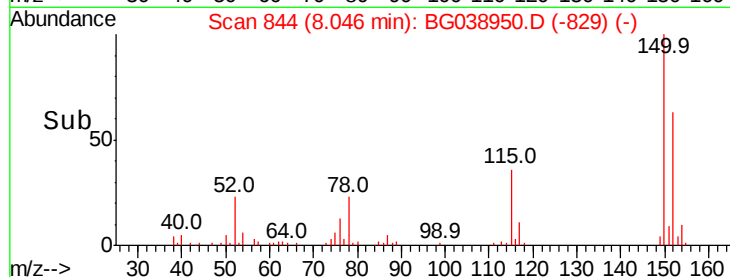
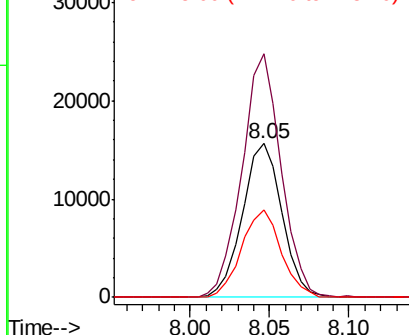
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.05 min Scan# 844  
Delta R.T. -0.01 min  
Lab File: BG038950.D  
Acq: 5 Jan 2019 5:36

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 27101  
Ion Ratio Lower Upper  
152 100  
150 158.6 119.5 179.3  
115 56.6 49.6 74.4



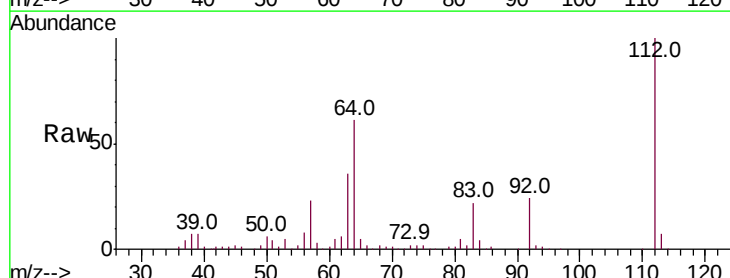
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



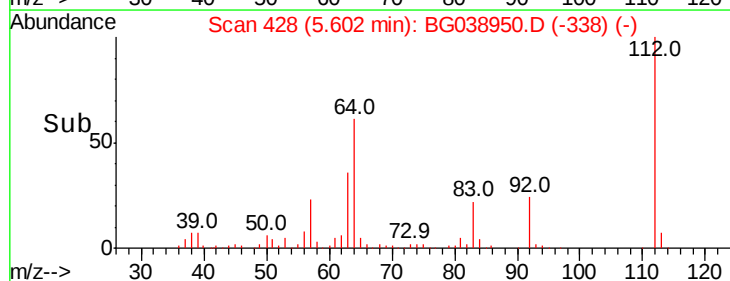
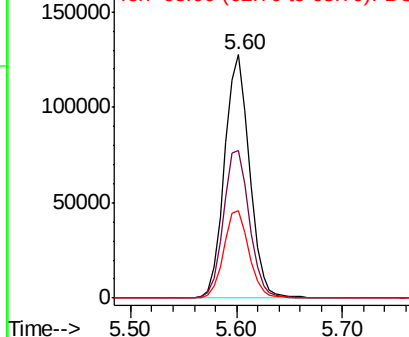
#5

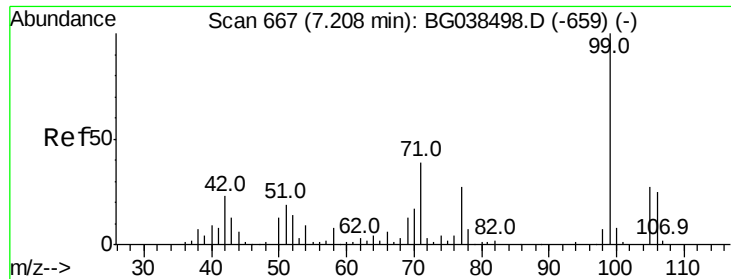
2-Fluorophenol  
Concen: 137.304 ng  
RT: 5.60 min Scan# 428  
Delta R.T. -0.00 min  
Lab File: BG038950.D  
Acq: 5 Jan 2019 5:36

Tgt Ion:112 Resp: 209797  
Ion Ratio Lower Upper  
112 100  
64 60.8 53.4 80.2  
63 35.9 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: 135.811 ng

RT: 7.21 min Scan# 701

Delta R.T. -0.00 min

Lab File: BG038950.D

Acq: 5 Jan 2019 5:36

Instrument :

BNA\_G

ClientSampleId :

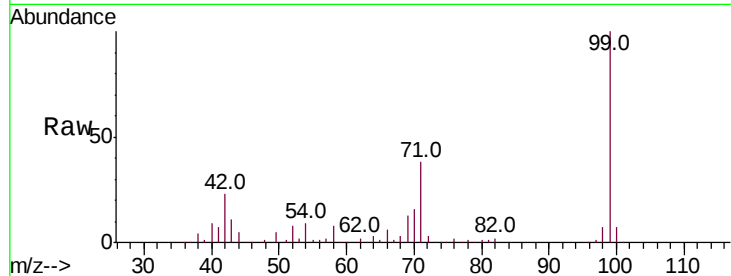
Tot Ion: 99 Resp: 284880

Ion Ratio Lower Upper

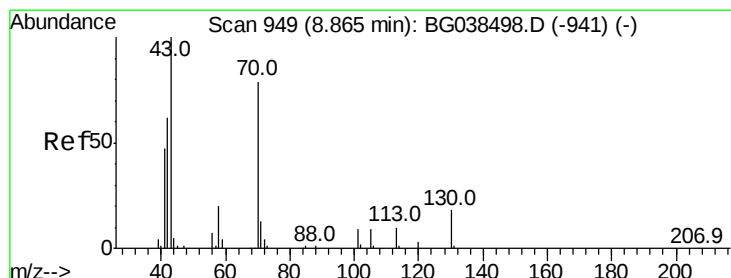
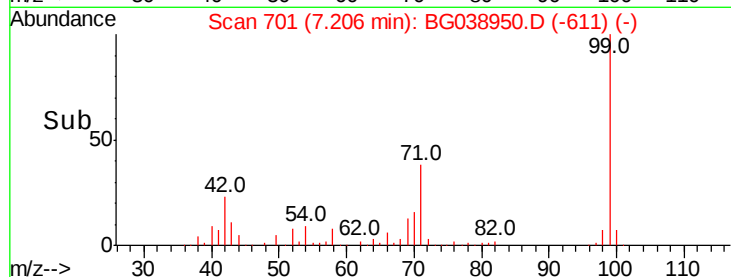
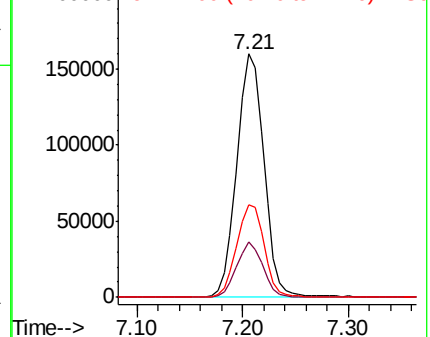
99 100

42 22.7 18.5 27.7

71 37.9 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: 16.100 ng

RT: 9.23 min Scan# 1045

Delta R.T. 0.36 min

Lab File: BG038950.D

Acq: 5 Jan 2019 5:36

Tgt Ion: 70 Resp: 23719

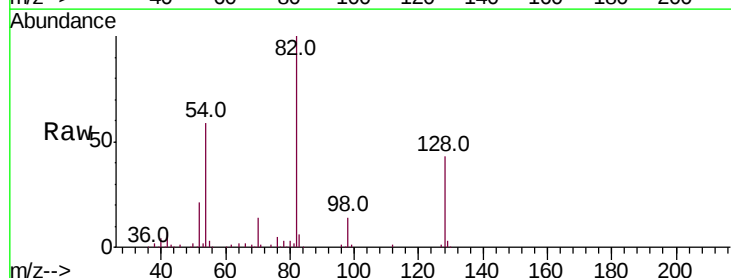
Ion Ratio Lower Upper

70 100

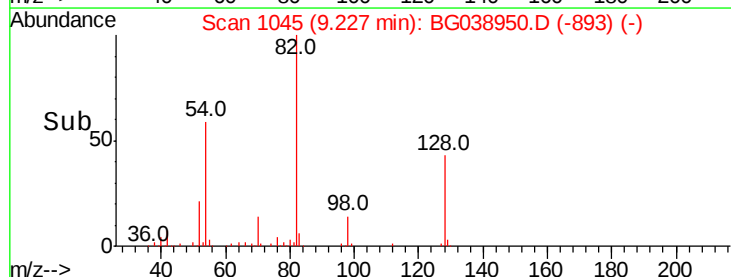
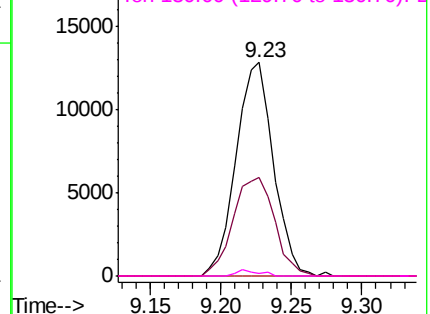
42 46.2 63.6 95.4#

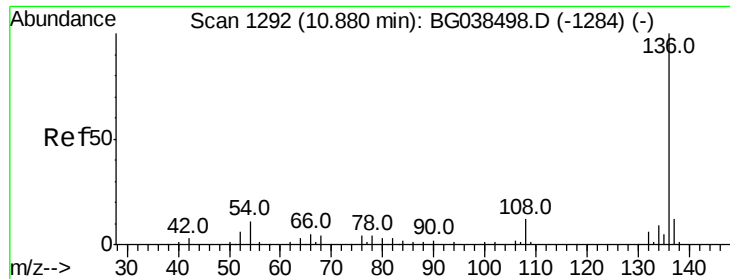
101 0.0 9.2 13.8#

130 1.4 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

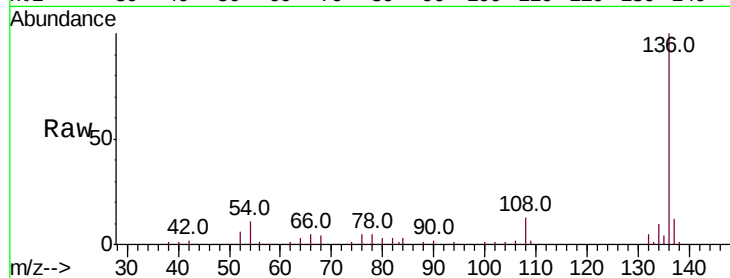




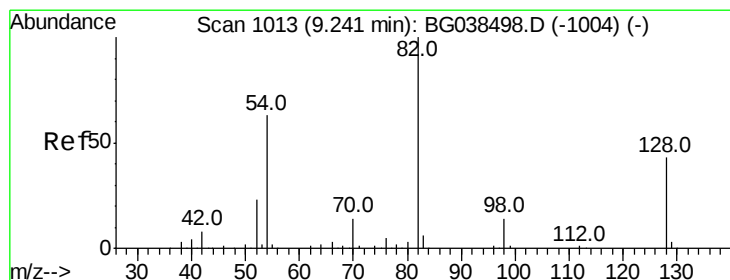
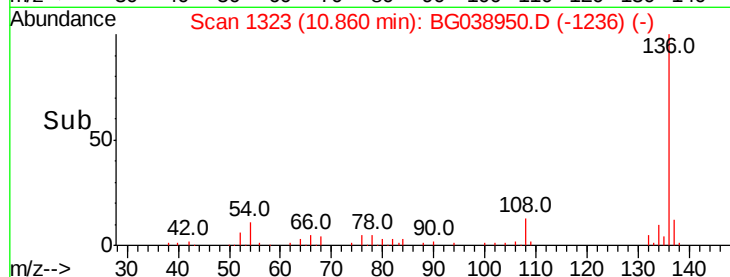
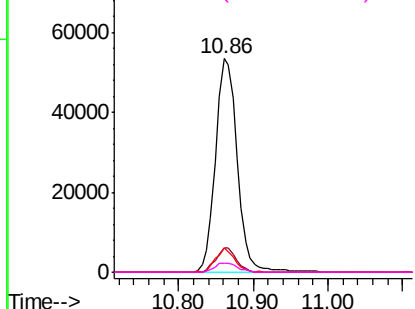
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.86 min Scan# 1323  
Delta R.T. -0.02 min  
Lab File: BG038950.D  
Acq: 5 Jan 2019 5:36

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 108230      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 11.6  | 9.3 13.9    |
| 54          | 11.5  | 8.5 12.7    |
| 68          | 4.2   | 3.5 5.3     |

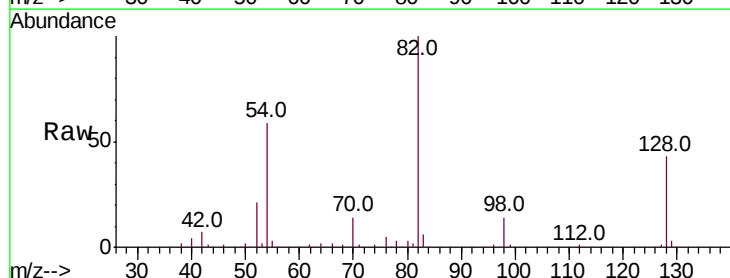


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

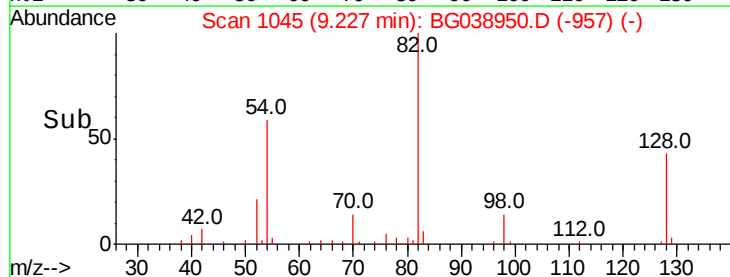
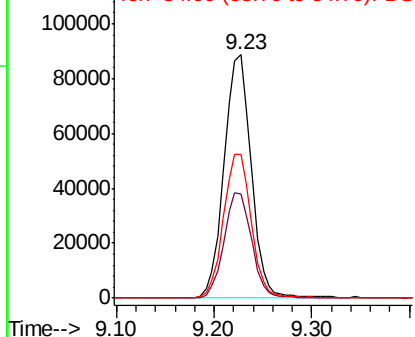


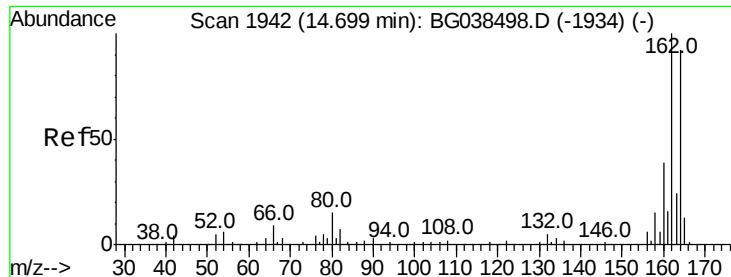
#23  
Nitrobenzene-d5  
Concen: 80.965 ng  
RT: 9.23 min Scan# 1045  
Delta R.T. -0.01 min  
Lab File: BG038950.D  
Acq: 5 Jan 2019 5:36

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 171527      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 42.6  | 34.6 52.0   |
| 54          | 59.1  | 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

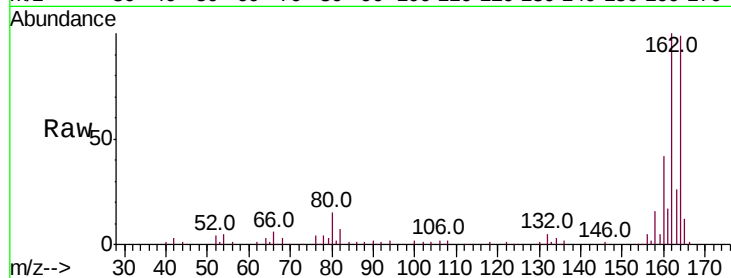




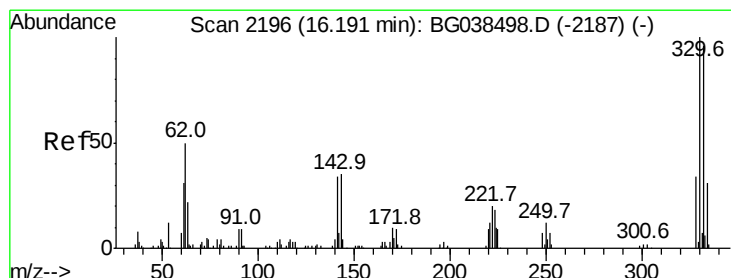
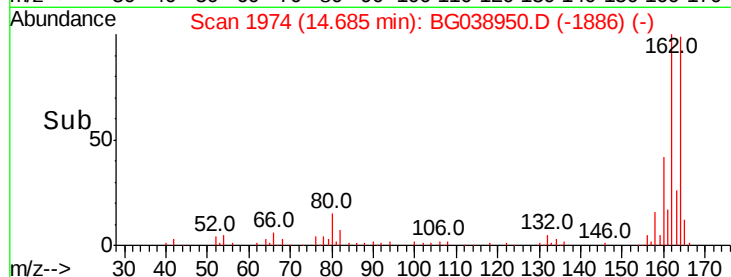
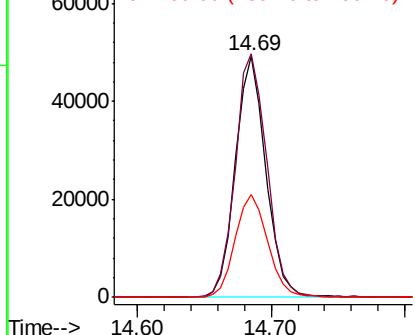
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.69 min Scan# 1974  
Delta R.T. -0.01 min  
Lab File: BG038950.D  
Acq: 5 Jan 2019 5:36

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:164 Resp: 77914  
Ion Ratio Lower Upper  
164 100  
162 100.8 86.6 130.0  
160 42.3 34.2 51.2

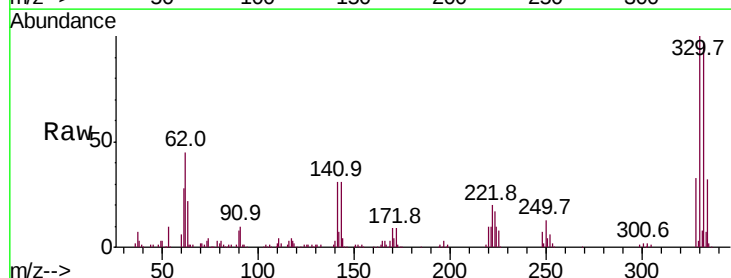


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

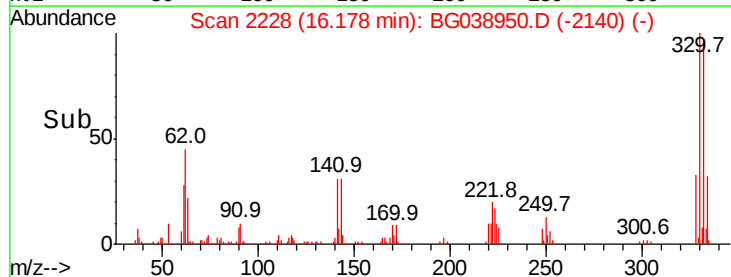
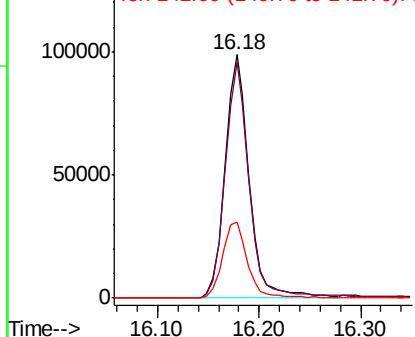


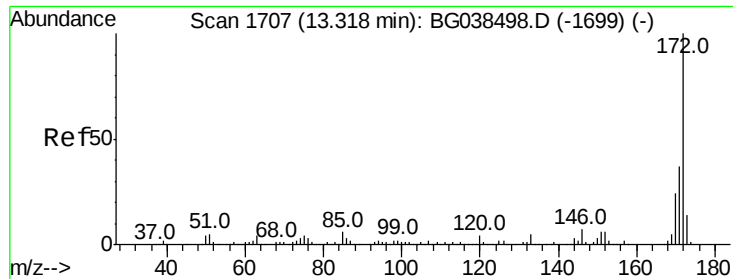
#42  
2,4,6-Tribromophenol  
Concen: 151.676 ng  
RT: 16.18 min Scan# 2228  
Delta R.T. -0.01 min  
Lab File: BG038950.D  
Acq: 5 Jan 2019 5:36

Tgt Ion:330 Resp: 162869  
Ion Ratio Lower Upper  
330 100  
332 97.0 76.9 115.3  
141 32.9 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

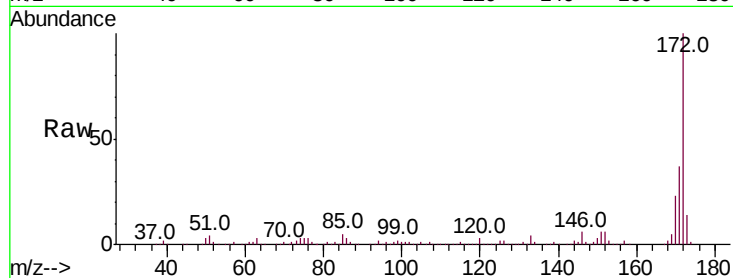




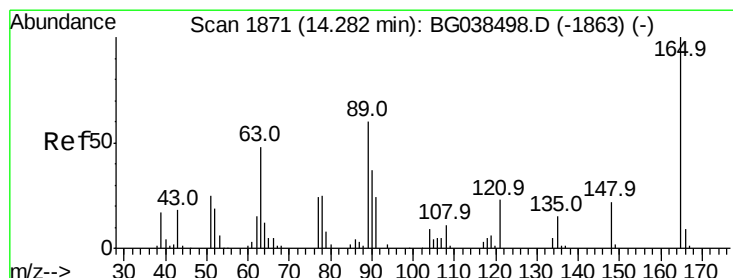
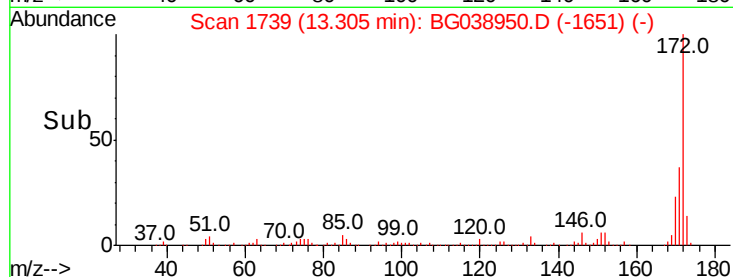
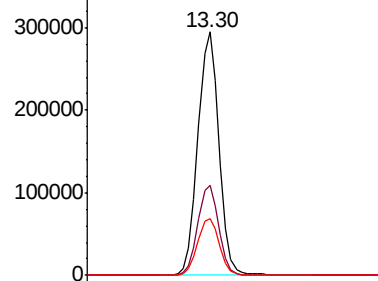
#45  
 2-Fluorobiphenyl  
 Concen: 83.996 ng  
 RT: 13.30 min Scan# 1739  
 Delta R.T. -0.01 min  
 Lab File: BG038950.D  
 Acq: 5 Jan 2019 5:36

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:172 Resp: 477054  
 Ion Ratio Lower Upper  
 172 100  
 171 37.0 29.8 44.6  
 170 23.4 19.5 29.3

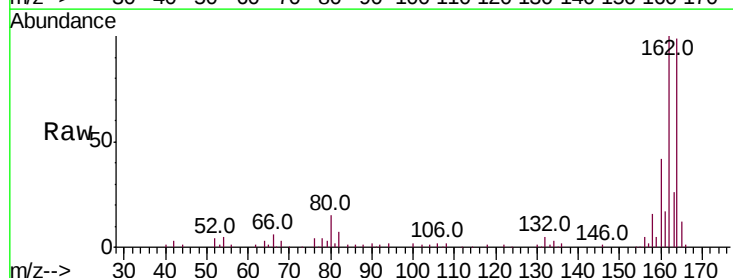


Abundance Ion 172.00 (171.70 to 172.70): E  
 400000 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

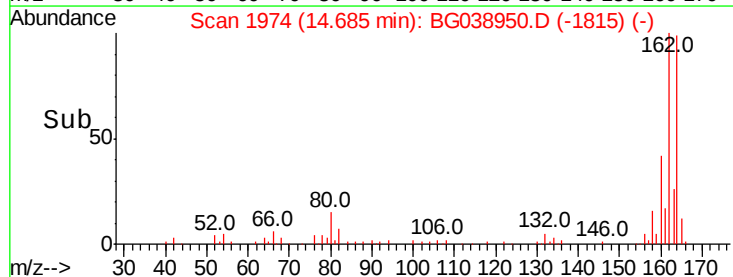
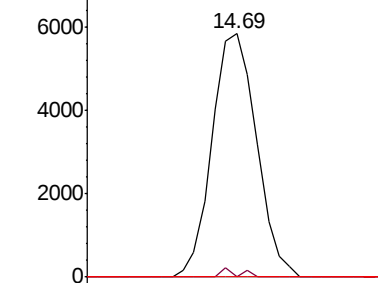


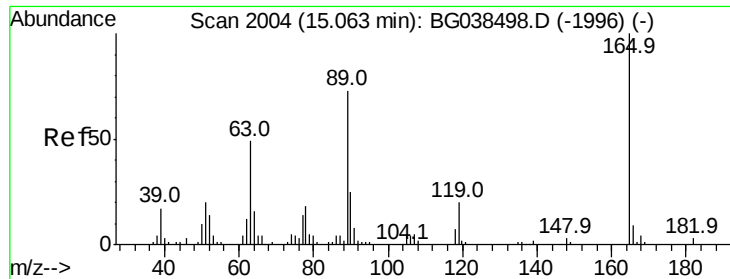
#51  
 2,6-Dinitrotoluene  
 Concen: 6.919 ng  
 RT: 14.69 min Scan# 1974  
 Delta R.T. 0.40 min  
 Lab File: BG038950.D  
 Acq: 5 Jan 2019 5:36

Tgt Ion:165 Resp: 9976  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 51.8 77.6#  
 89 0.0 47.9 71.9#



Abundance Ion 165.00 (164.70 to 165.70): E  
 8000 Ion 63.00 (62.70 to 63.70): BG  
 Ion 89.00 (88.70 to 89.70): BG

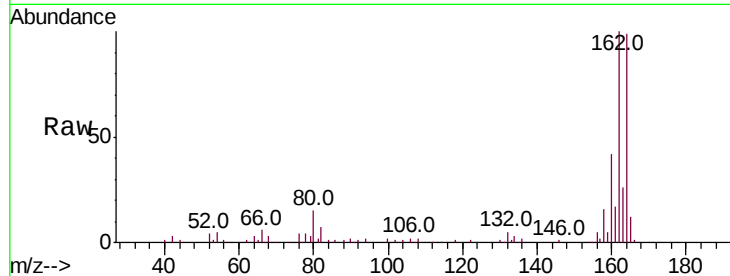




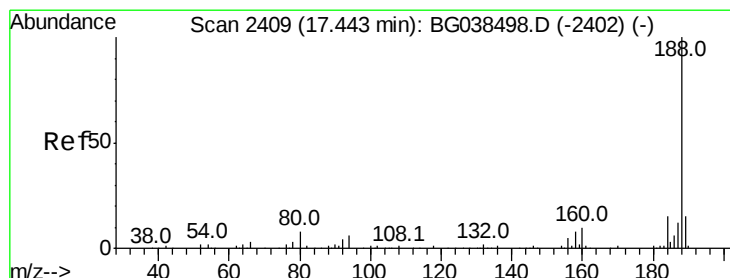
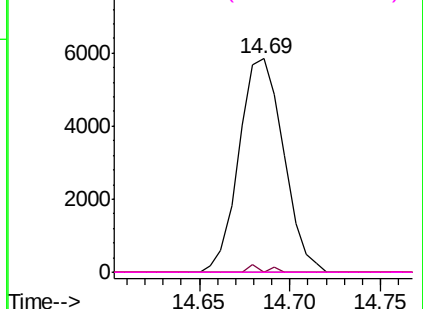
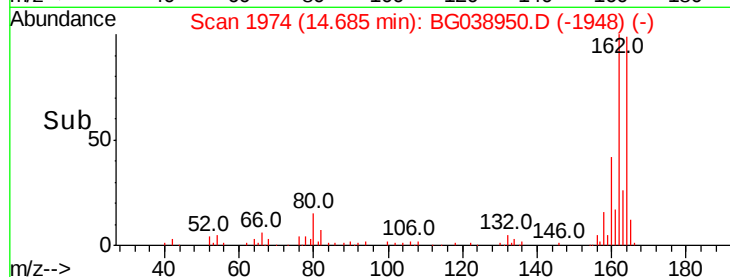
#57  
 2,4-Dinitrotoluene  
 Concen: 4.912 ng  
 RT: 14.69 min Scan# 1974  
 Delta R.T. -0.38 min  
 Lab File: BG038950.D  
 Acq: 5 Jan 2019 5:36

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:165 Resp: 9976  
 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#

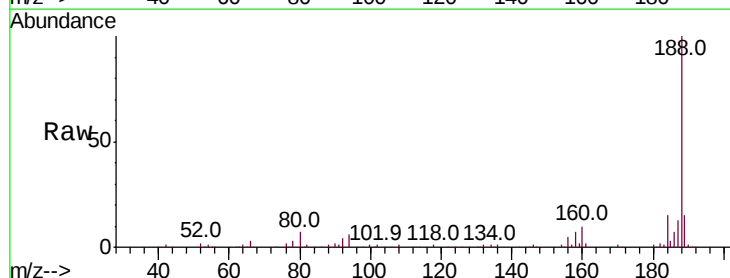


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BG  
 Ion 89.00 (88.70 to 89.70): BG  
 Ion 182.00 (181.70 to 182.70): E

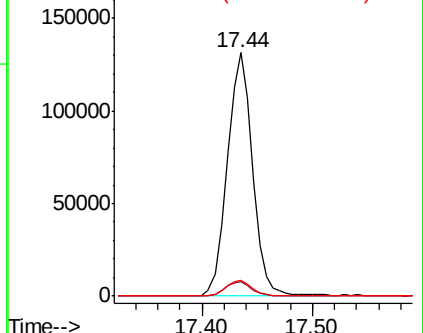
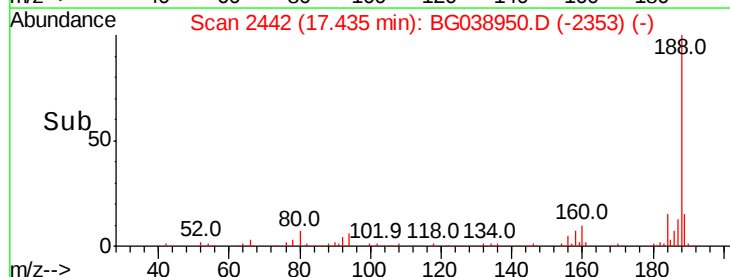


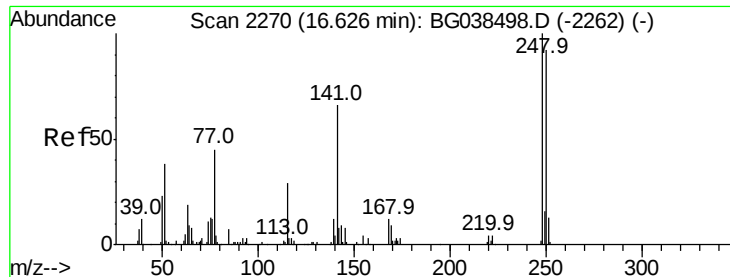
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.44 min Scan# 2442  
 Delta R.T. -0.01 min  
 Lab File: BG038950.D  
 Acq: 5 Jan 2019 5:36

Tgt Ion:188 Resp: 211015  
 Ion Ratio Lower Upper  
 188 100  
 94 5.9 5.1 7.7  
 80 6.7 6.1 9.1



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: 4.134 ng

RT: 16.18 min Scan# 2228

Delta R.T. -0.45 min

Lab File: BG038950.D

Acq: 5 Jan 2019 5:36

Instrument :

BNA\_G

ClientSampleId :

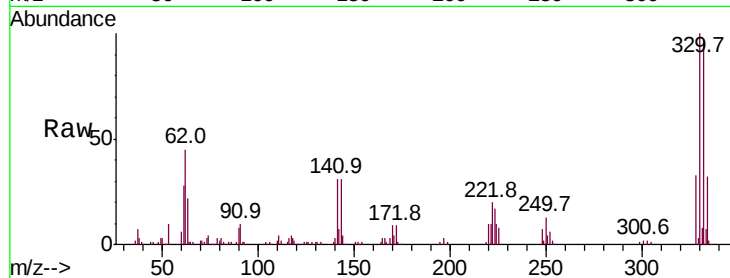
Tot Ion:248 Resp: 10653

Ion Ratio Lower Upper

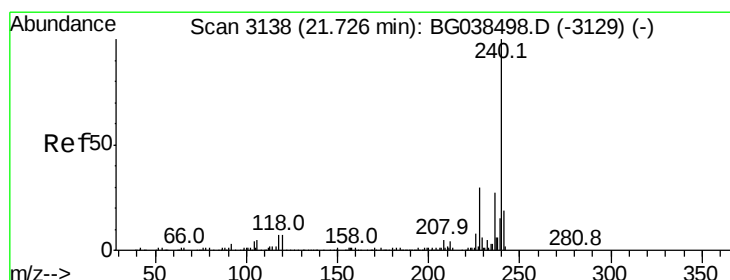
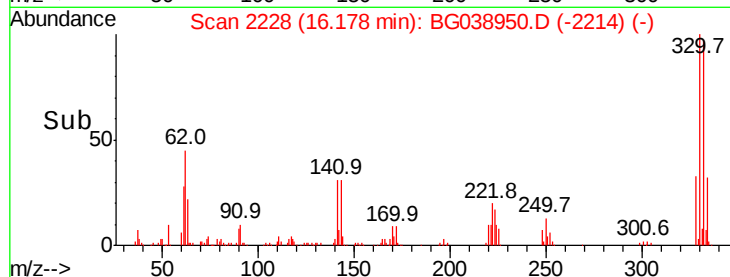
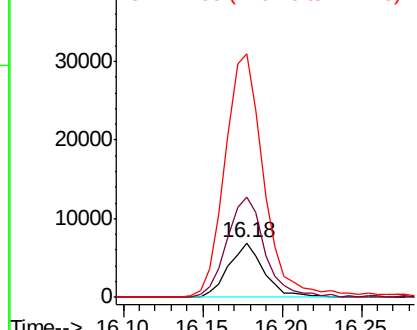
248 100

250 180.1 73.4 110.2#

141 333.9 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: 21.71 min Scan# 3170

Delta R.T. -0.01 min

Lab File: BG038950.D

Acq: 5 Jan 2019 5:36

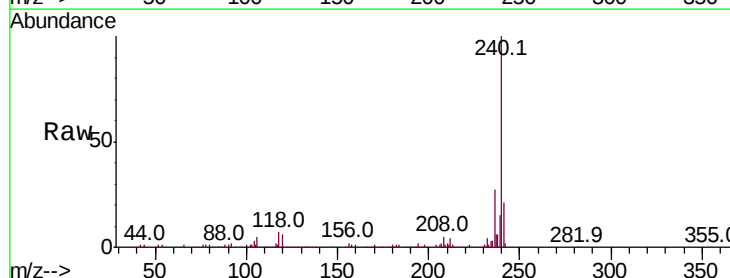
Tgt Ion:240 Resp: 213220

Ion Ratio Lower Upper

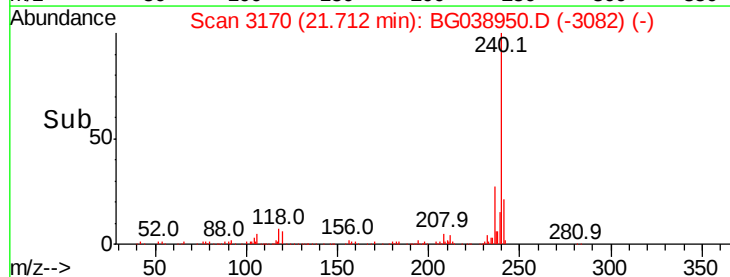
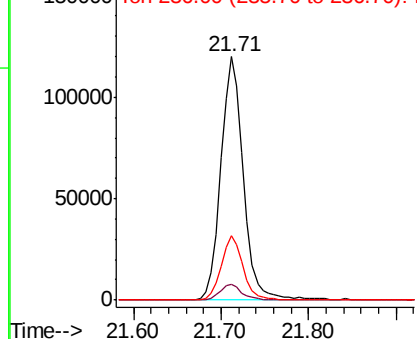
240 100

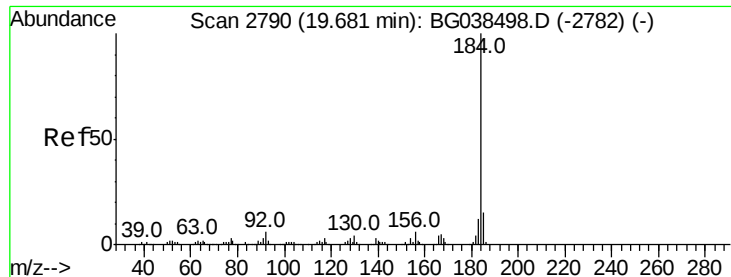
120 6.4 5.3 7.9

236 26.6 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: 2.519 ng

RT: 20.04 min Scan# 2885

Delta R.T. 0.36 min

Lab File: BG038950.D

Acq: 5 Jan 2019 5:36

Instrument :

BNA\_G

ClientSampleId :

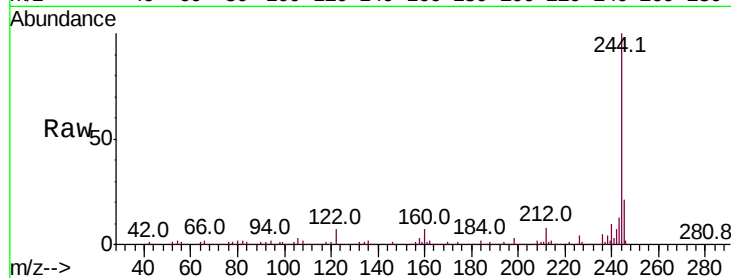
Tot Ion:184 Resp: 15885

Ion Ratio Lower Upper

184 100

185 18.9 12.2 18.2#

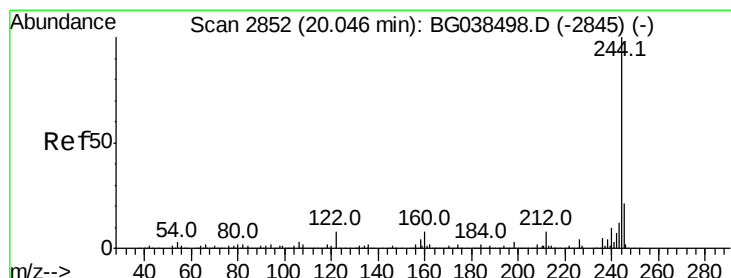
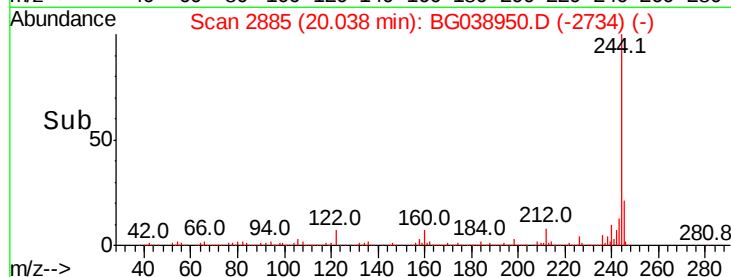
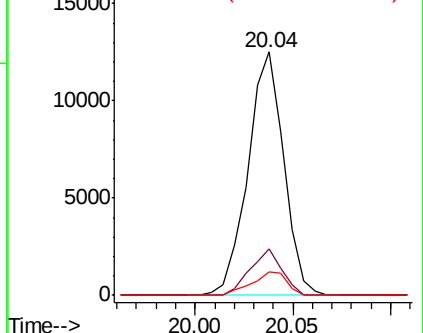
183 9.8 9.6 14.4



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: 99.465 ng

RT: 20.04 min Scan# 2885

Delta R.T. -0.01 min

Lab File: BG038950.D

Acq: 5 Jan 2019 5:36

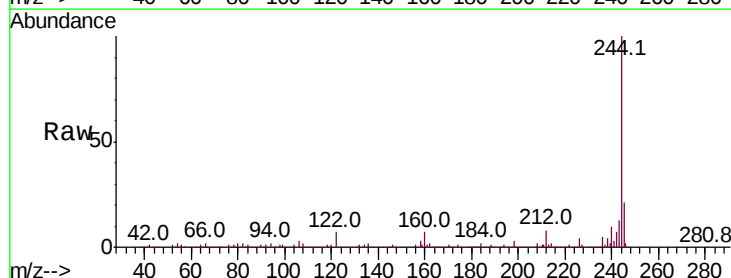
Tgt Ion:244 Resp: 974478

Ion Ratio Lower Upper

244 100

212 7.8 6.2 9.2

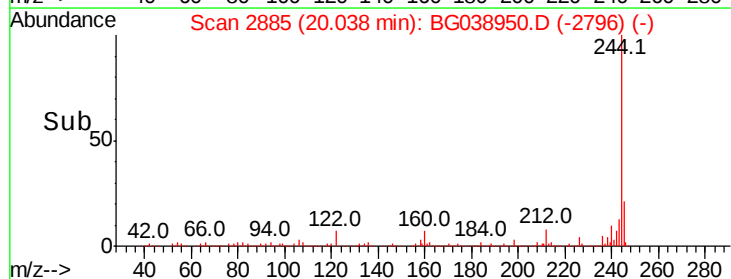
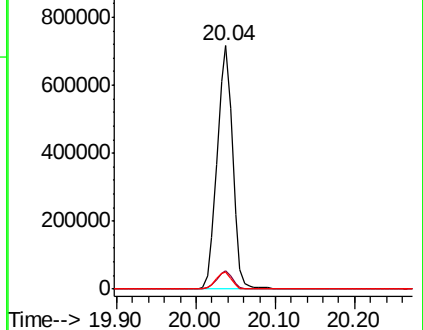
122 7.0 6.3 9.5

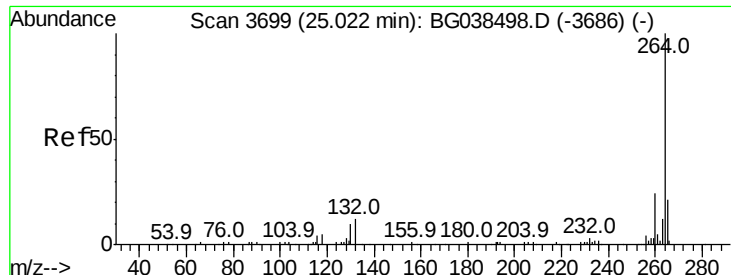


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

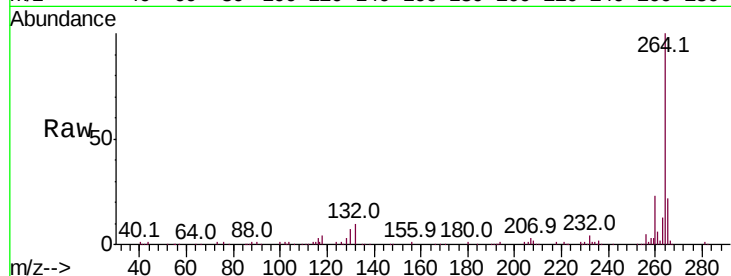




#87  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 25.01 min Scan# 3731  
 Delta R.T. -0.01 min  
 Lab File: BG038950.D  
 Acq: 5 Jan 2019 5:36

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.4  | 18.9  | 28.3  |
| 265     | 22.2  | 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

