

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG112619\  
 Data File : BG043786.D  
 Acq On : 27 Nov 2019 1:50  
 Operator : JU  
 Sample : K5676-034  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Nov 27 03:00:59 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG112219.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Nov 23 00:54:00 2019  
 Response via : Initial Calibration

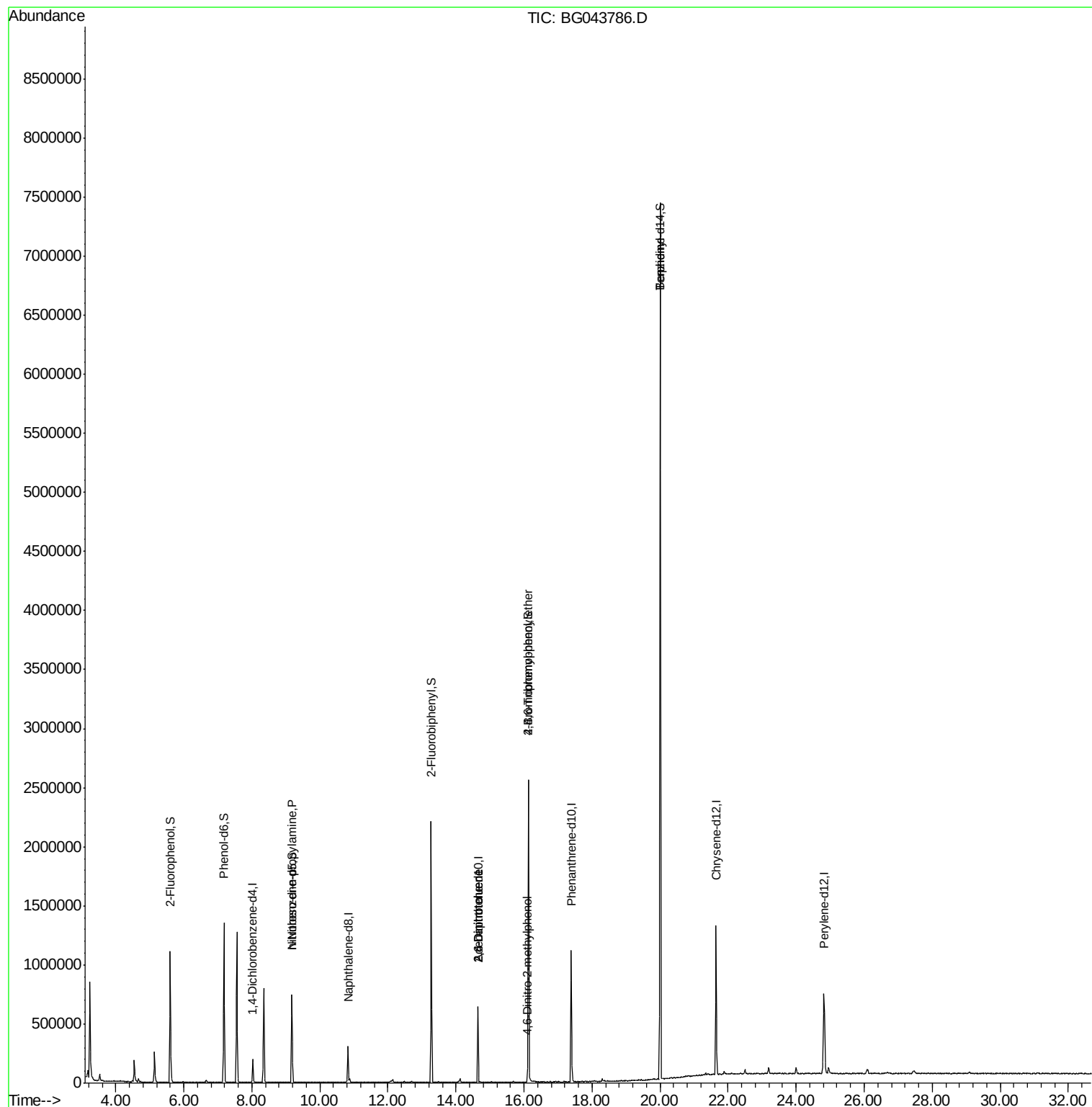
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.03  | 152  | 56625    | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.82 | 136  | 276447   | 20.00     | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.65 | 164  | 228358   | 20.00     | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.39 | 188  | 729643   | 20.00     | ng    | -0.01    |
| 76) Chrysene-d12               | 21.65 | 240  | 729660   | 20.00     | ng    | -0.02    |
| 87) Perylene-d12               | 24.82 | 264  | 717789   | 20.00     | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.60  | 112  | 556545   | 176.70    | ng    | 0.00     |
| 7) Phenol-d6                   | 7.18  | 99   | 830745   | 181.44    | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.18  | 82   | 460838   | 91.66     | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.13 | 330  | 428052   | 155.41    | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 13.27 | 172  | 1152335  | 82.95     | ng    | -0.01    |
| 79) Terphenyl-d14              | 20.01 | 244  | 2938120  | 90.99     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.17  | 70   | 61828    | 17.171    | ng    | # 72     |
| 51) 2,6-Dinitrotoluene         | 14.65 | 165  | 30009    | 8.933     | ng    | # 26     |
| 57) 2,4-Dinitrotoluene         | 14.65 | 165  | 30009    | 6.441     | ng    | # 24     |
| 60) Diethylphthalate           | 15.46 | 149  | 1307     | Below Cal |       | # 79     |
| 65) 4,6-Dinitro-2-methylphenol | 16.09 | 198  | 56       | 4.139     | ng    | # 14     |
| 67) 4-Bromophenyl-phenylether  | 16.13 | 248  | 33084    | 4.300     | ng    | # 1      |
| 73) Carbazole                  | 17.78 | 167  | 4694     | Below Cal |       | # 96     |
| 77) Benzidine                  | 20.01 | 184  | 70153    | 3.291     | ng    | # 92     |

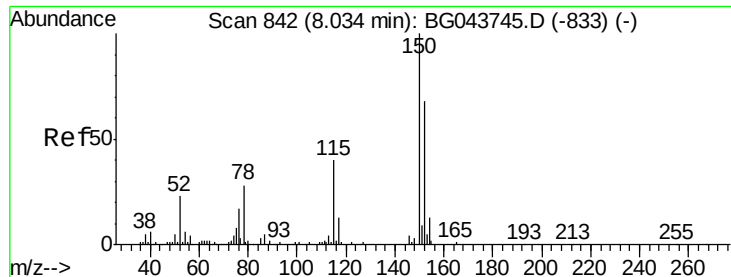
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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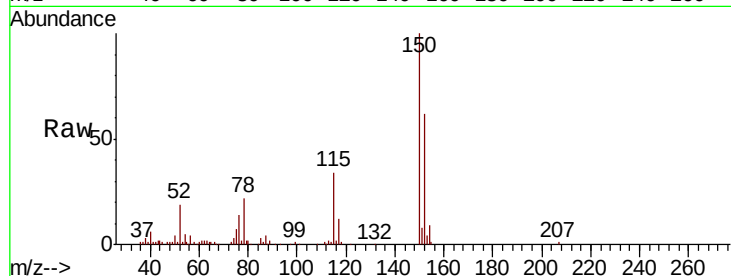


#1

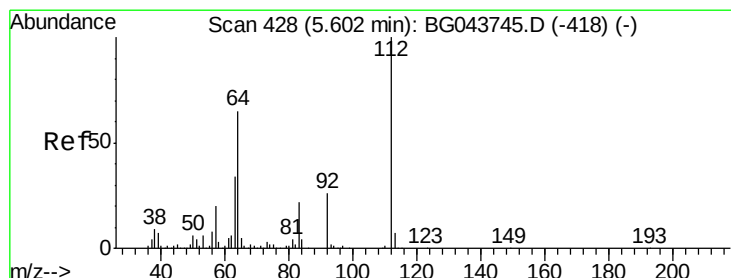
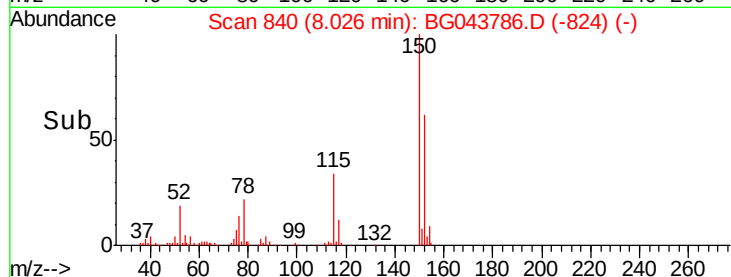
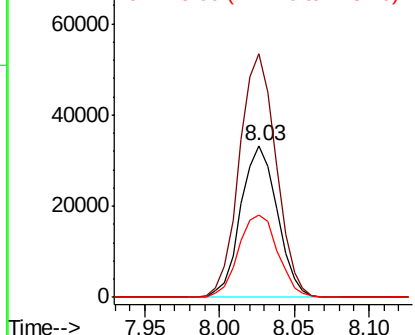
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.03 min Scan# 840  
Delta R.T. -0.01 min  
Lab File: BG043786.D  
Acq: 27 Nov 2019 1:50

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 160.4 | 117.8 | 176.8 |
| 115     | 54.5  | 47.0  | 70.4  |



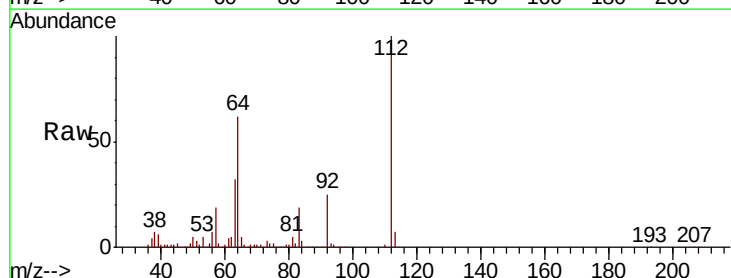
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



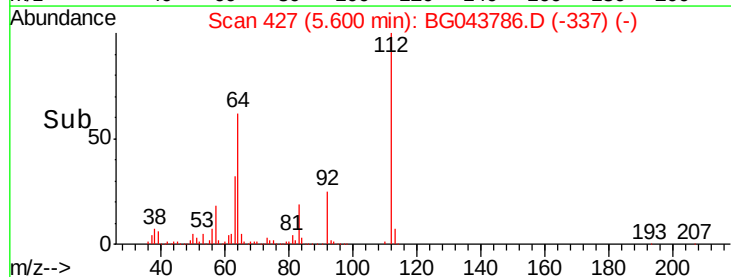
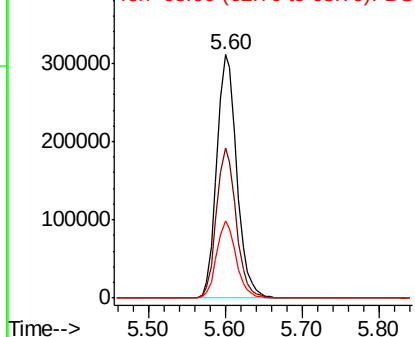
#5

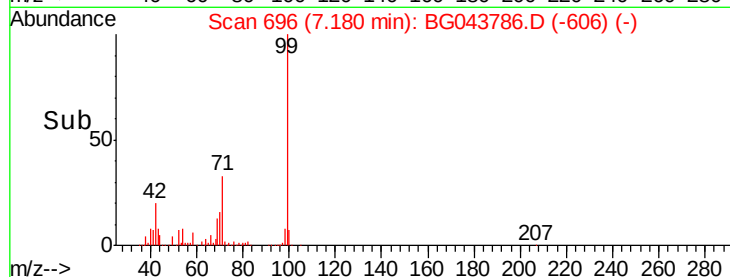
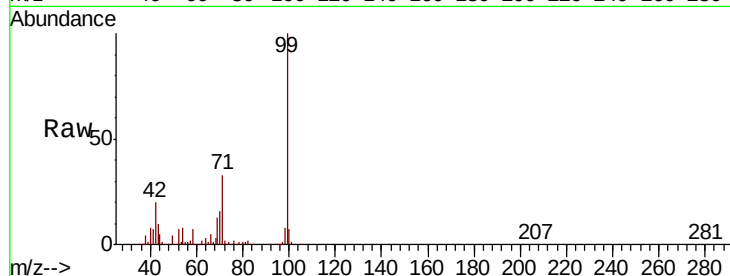
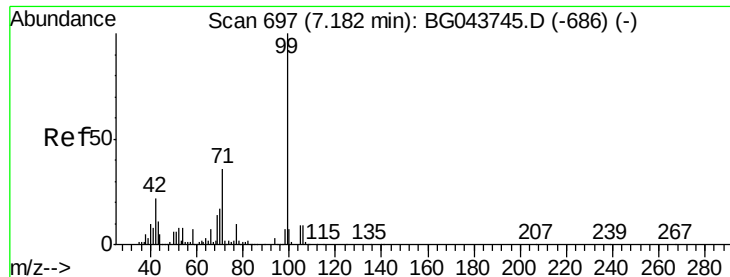
2-Fluorophenol  
Concen: 176.697 ng  
RT: 5.60 min Scan# 427  
Delta R.T. -0.00 min  
Lab File: BG043786.D  
Acq: 27 Nov 2019 1:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 61.9  | 51.7  | 77.5  |
| 63      | 32.0  | 26.8  | 40.2  |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BG0  
Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 181.439 ng

RT: 7.18 min Scan# 696

Delta R.T. -0.00 min

Lab File: BG043786.D

Acq: 27 Nov 2019 1:50

Instrument :

BNA\_G

ClientSampleId :

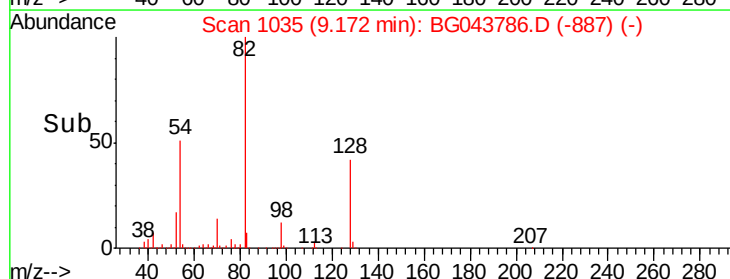
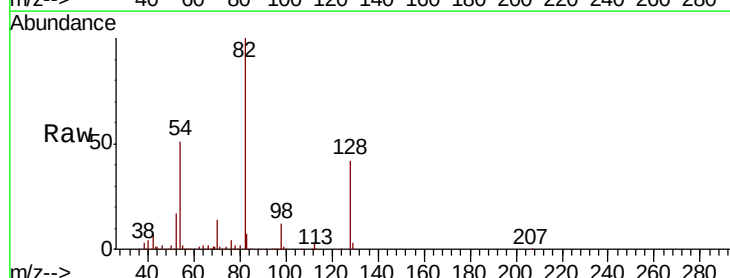
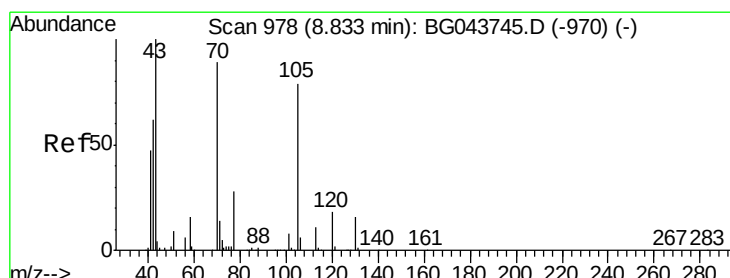
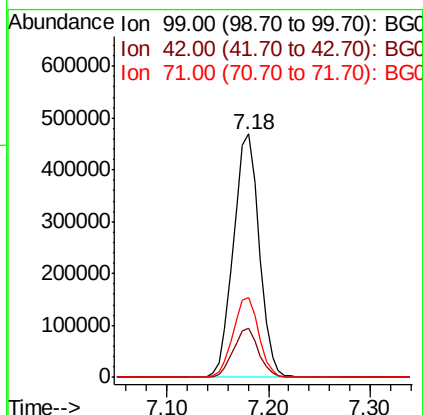
Tot Ion: 99 Resp: 830745

Ion Ratio Lower Upper

99 100

42 20.0 17.4 26.0

71 32.7 29.5 44.3



#19

n-Nitroso-di-n-propylamine

Concen: 17.171 ng

RT: 9.17 min Scan# 1035

Delta R.T. 0.34 min

Lab File: BG043786.D

Acq: 27 Nov 2019 1:50

Tgt Ion: 70 Resp: 61828

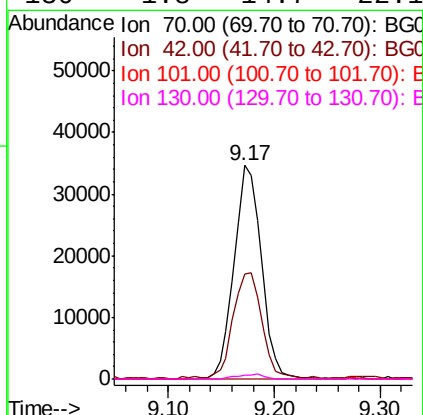
Ion Ratio Lower Upper

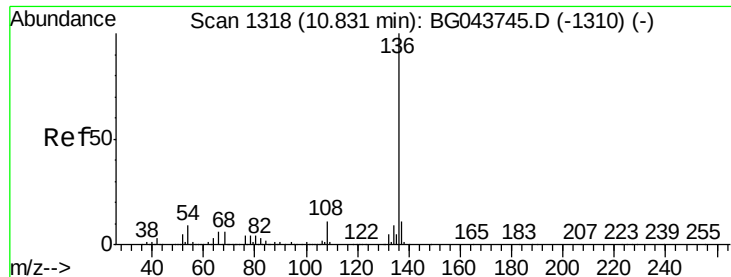
70 100

42 49.0 56.4 84.6#

101 0.0 6.7 10.1#

130 1.8 14.7 22.1#

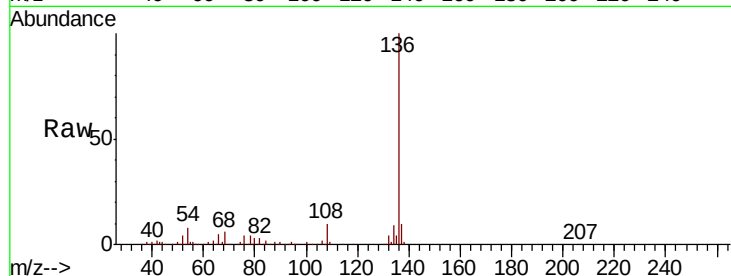




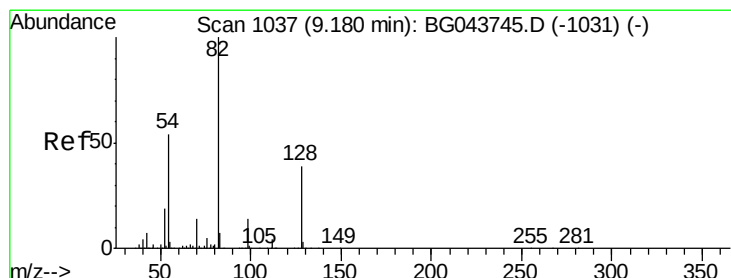
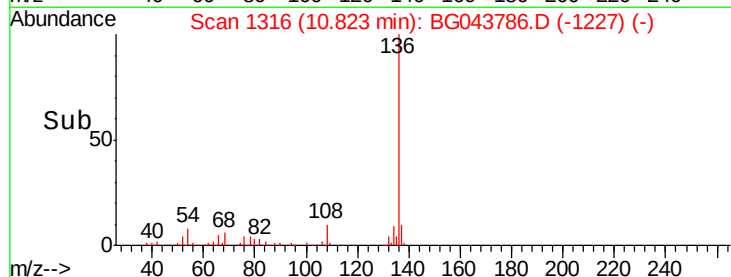
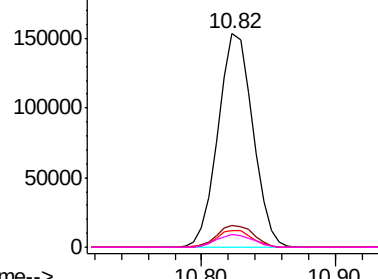
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.82 min Scan# 1316  
Delta R.T. -0.01 min  
Lab File: BG043786.D  
Acq: 27 Nov 2019 1:50

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |        |  |
|-------------|-------|--------|--|
| Tot Ion:136 | Resp: | 276447 |  |
| Ion Ratio   | Lower | Upper  |  |
| 136 100     |       |        |  |
| 137 10.3    | 8.8   | 13.2   |  |
| 54 8.1      | 7.5   | 11.3   |  |
| 68 6.2      | 4.9   | 7.3    |  |

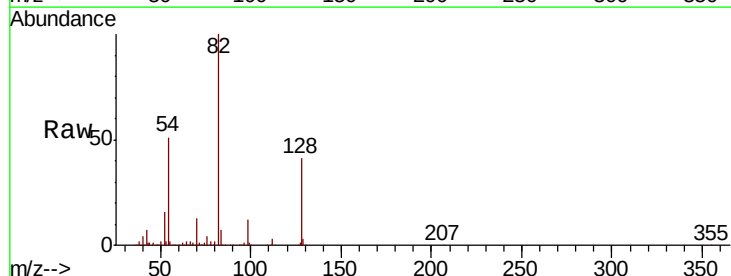


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

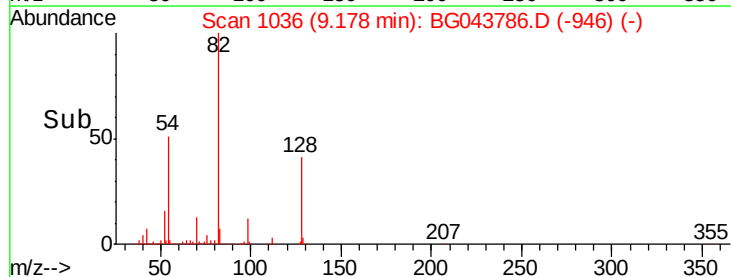
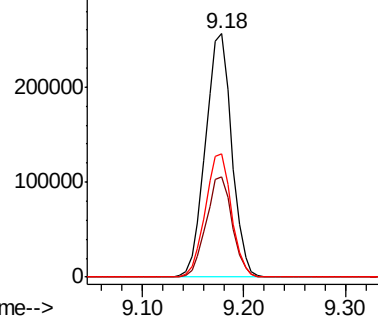


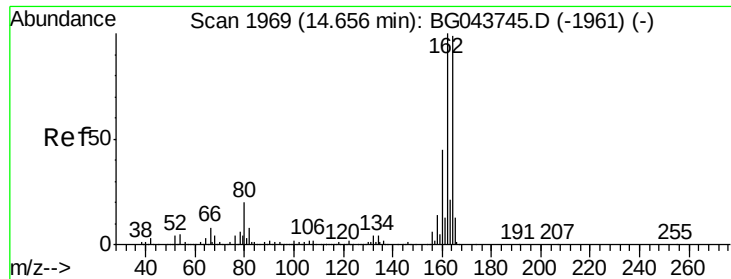
#23  
Nitrobenzene-d5  
Concen: 91.656 ng  
RT: 9.18 min Scan# 1036  
Delta R.T. -0.00 min  
Lab File: BG043786.D  
Acq: 27 Nov 2019 1:50

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 82 | Resp: | 460838 |
| Ion | Ratio   | Lower | Upper  |
| 82  | 100     |       |        |
| 128 | 41.4    | 31.3  | 46.9   |
| 54  | 50.5    | 42.7  | 64.1   |



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: 14.65 min Scan# 1967

Delta R.T. -0.01 min

Lab File: BG043786.D

Acq: 27 Nov 2019 1:50

Instrument :

BNA\_G

ClientSampleId :

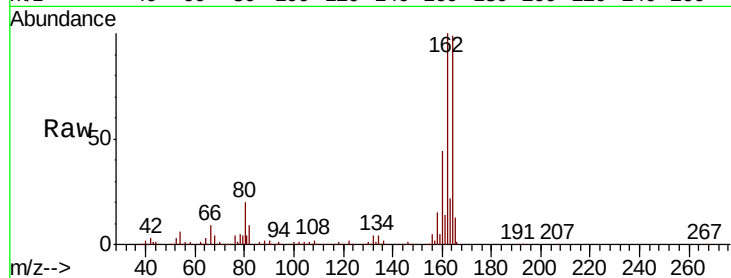
Tot Ion:164 Resp: 228358

Ion Ratio Lower Upper

164 100

162 100.9 80.6 121.0

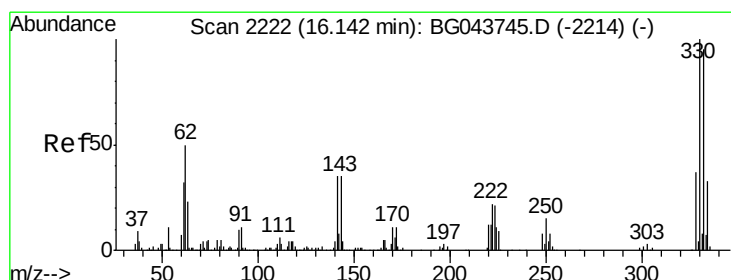
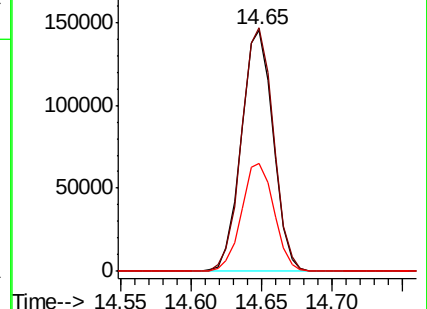
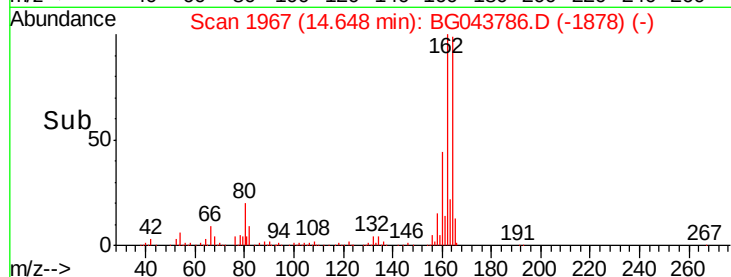
160 44.6 36.3 54.5



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: 155.410 ng

RT: 16.13 min Scan# 2219

Delta R.T. -0.01 min

Lab File: BG043786.D

Acq: 27 Nov 2019 1:50

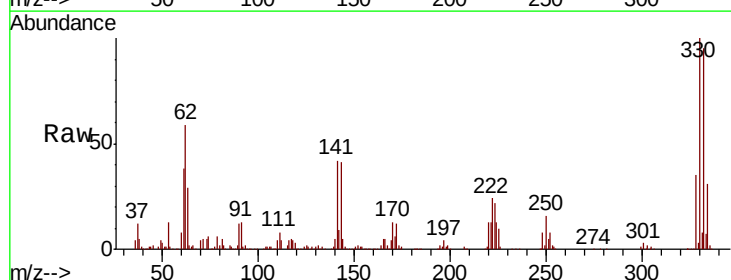
Tgt Ion:330 Resp: 428052

Ion Ratio Lower Upper

330 100

332 95.0 77.3 115.9

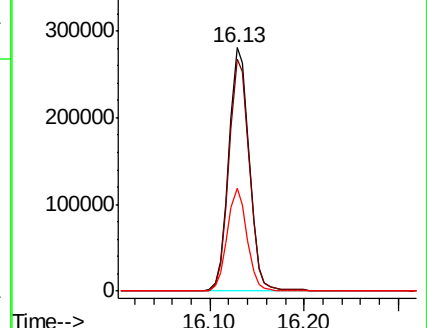
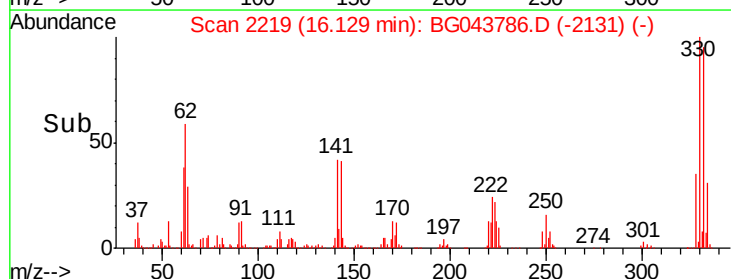
141 41.1 31.4 47.2

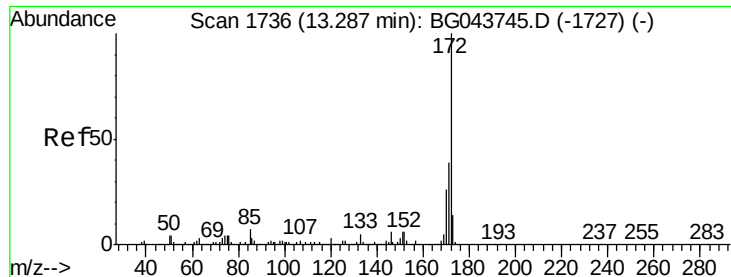


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



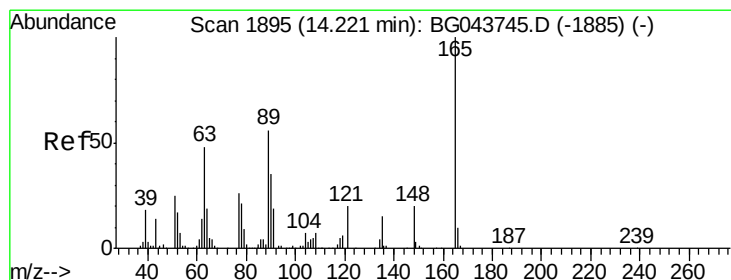
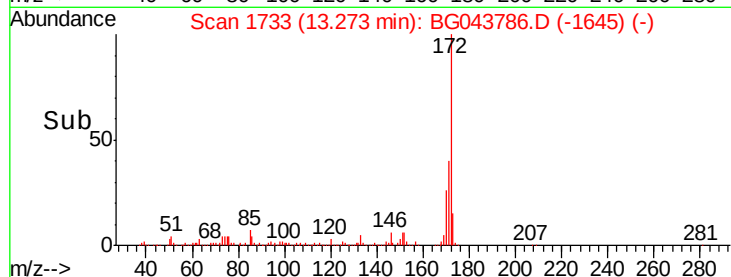
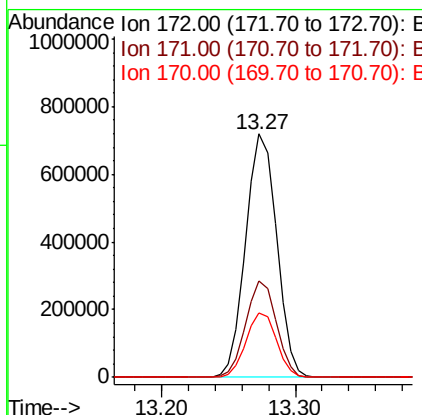
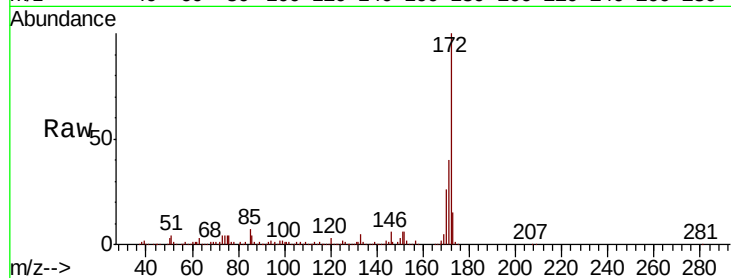


#45  
 2-Fluorobiphenyl  
 Concen: 82.948 ng  
 RT: 13.27 min Scan# 1733  
 Delta R.T. -0.01 min  
 Lab File: BG043786.D  
 Acq: 27 Nov 2019 1:50

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:172 Resp: 1152335  

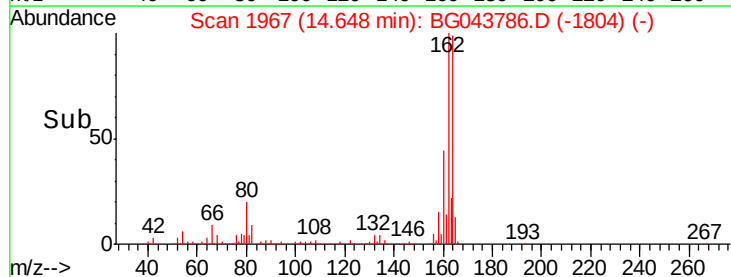
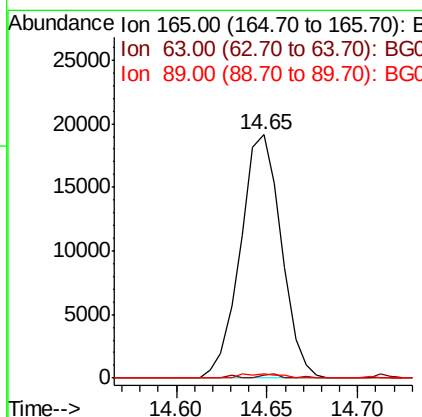
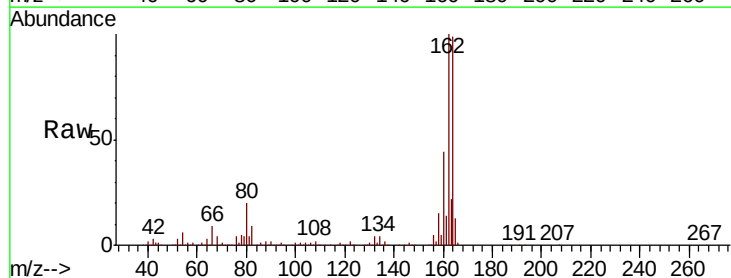
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 39.7  | 31.0  | 46.6  |
| 170 | 26.2  | 21.0  | 31.4  |

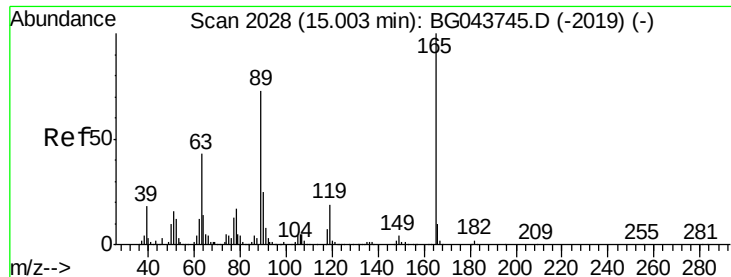


#51  
 2,6-Dinitrotoluene  
 Concen: 8.933 ng  
 RT: 14.65 min Scan# 1967  
 Delta R.T. 0.43 min  
 Lab File: BG043786.D  
 Acq: 27 Nov 2019 1:50

Tgt Ion:165 Resp: 30009  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 165 | 100   |       |       |
| 63  | 1.1   | 43.4  | 65.2# |
| 89  | 1.9   | 44.6  | 67.0# |

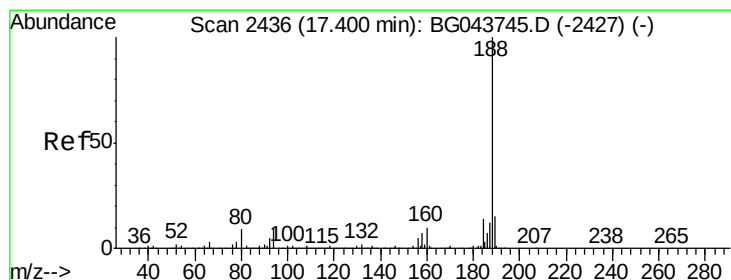
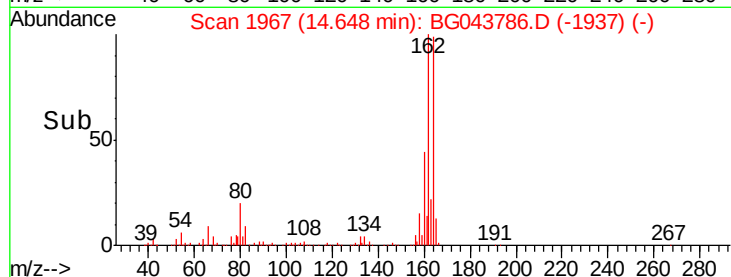
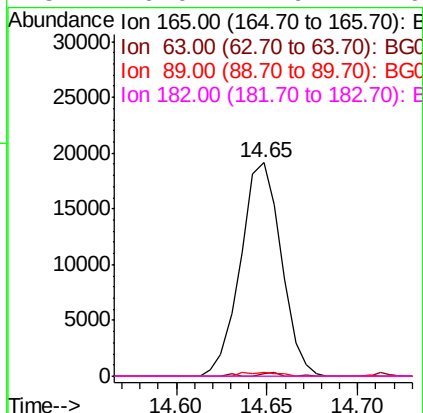
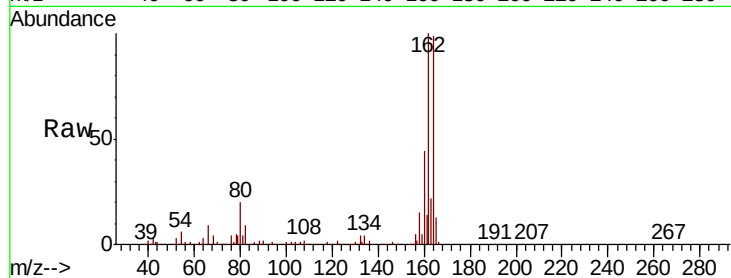




#57  
 2,4-Dinitrotoluene  
 Concen: 6.441 ng  
 RT: 14.65 min Scan# 1967  
 Delta R.T. -0.35 min  
 Lab File: BG043786.D  
 Acq: 27 Nov 2019 1:50

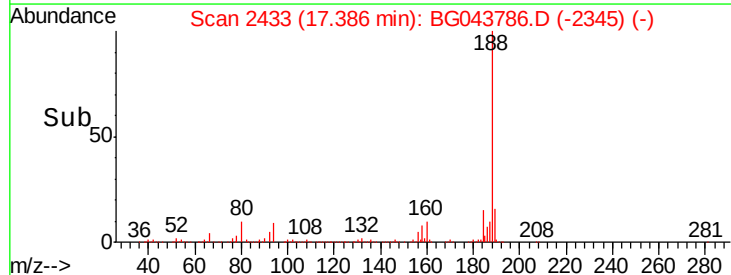
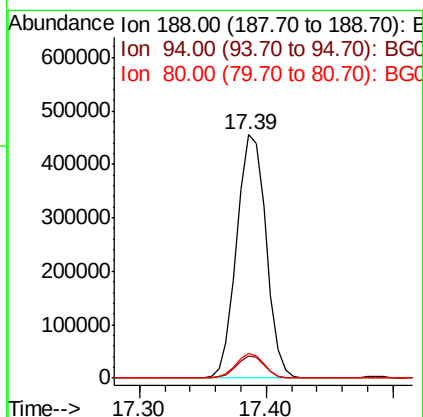
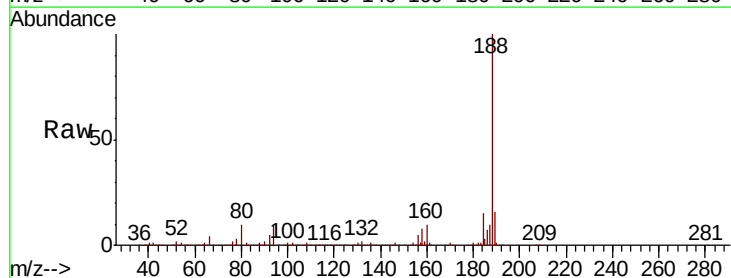
Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.1   | 34.6  | 51.8# |
| 89      | 1.9   | 58.3  | 87.5# |
| 182     | 0.0   | 1.9   | 2.9#  |

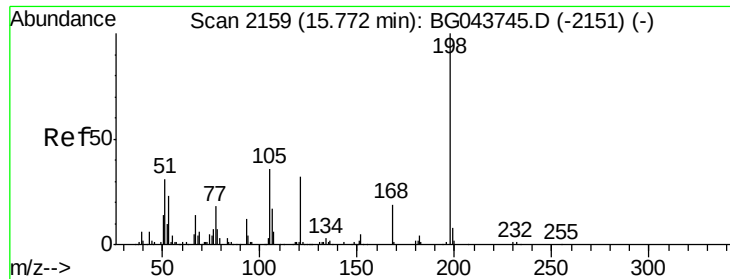


#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.39 min Scan# 2433  
 Delta R.T. -0.01 min  
 Lab File: BG043786.D  
 Acq: 27 Nov 2019 1:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.2   | 6.9   | 10.3  |
| 80      | 10.4  | 7.5   | 11.3  |



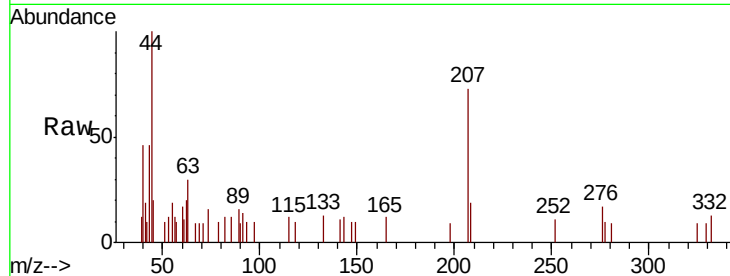




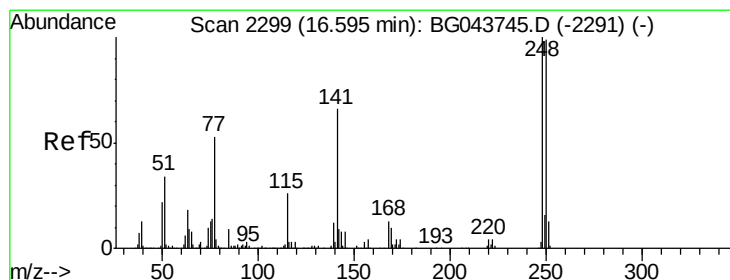
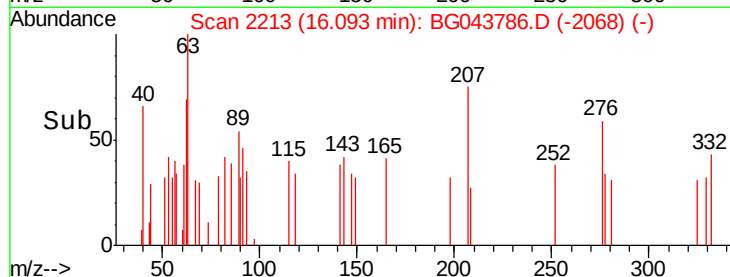
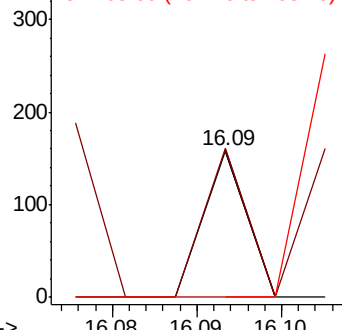
#65  
 4,6-Dinitro-2-methylphenol  
 Concen: 4.139 ng  
 RT: 16.09 min Scan# 2213  
 Delta R.T. 0.32 min  
 Lab File: BG043786.D  
 Acq: 27 Nov 2019 1:50

Instrument :  
 BNA\_G  
 ClientSampled :

Tot Ion:198 Resp: 56  
 Ion Ratio Lower Upper  
 198 100  
 51 101.9 16.8 56.8#  
 105 0.0 17.3 57.3#

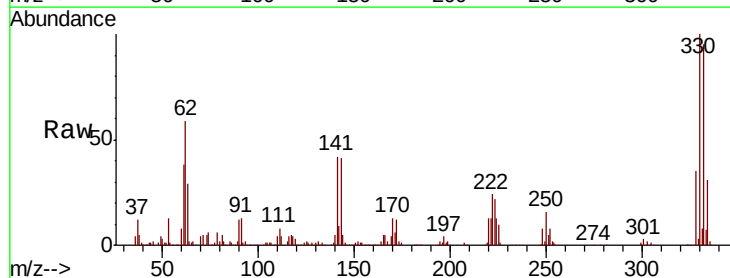


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BG  
 Ion 105.00 (104.70 to 105.70): E

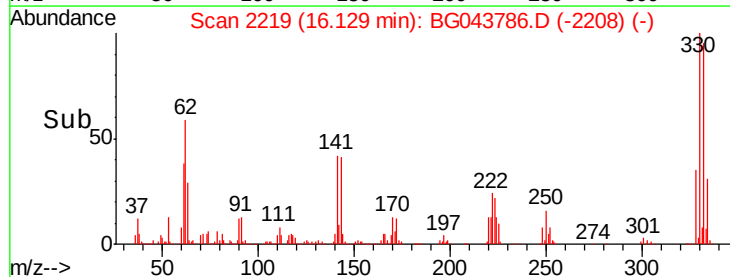
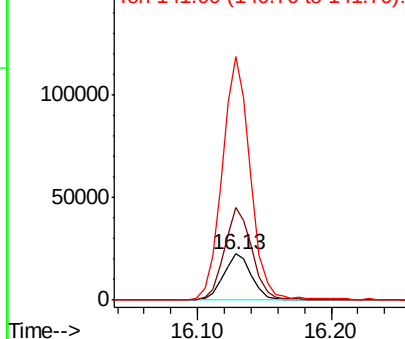


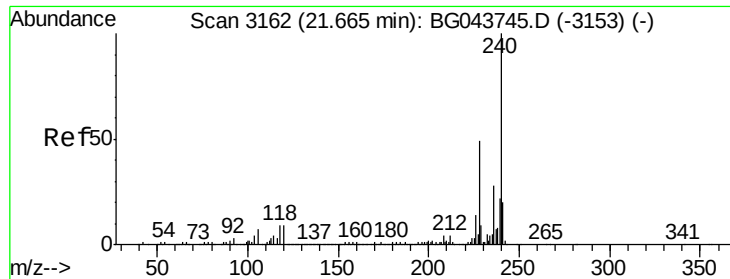
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.300 ng  
 RT: 16.13 min Scan# 2219  
 Delta R.T. -0.47 min  
 Lab File: BG043786.D  
 Acq: 27 Nov 2019 1:50

Tgt Ion:248 Resp: 33084  
 Ion Ratio Lower Upper  
 248 100  
 250 200.6 79.3 118.9#  
 141 530.0 53.0 79.6#



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

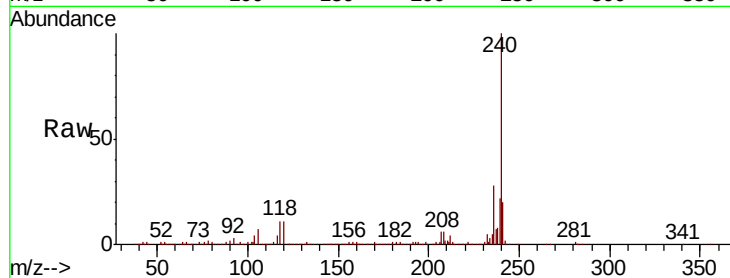




#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.65 min Scan# 3158  
 Delta R.T. -0.02 min  
 Lab File: BG043786.D  
 Acq: 27 Nov 2019 1:50

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.1  | 7.5   | 11.3  |
| 236     | 28.3  | 22.6  | 34.0  |

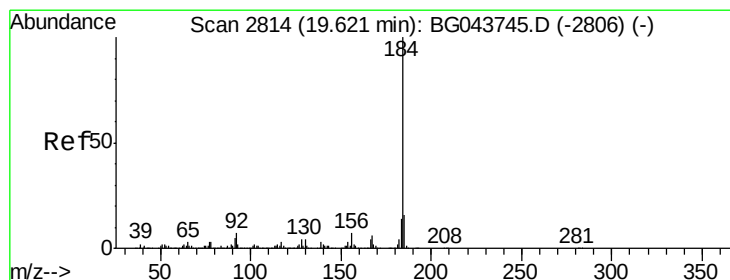
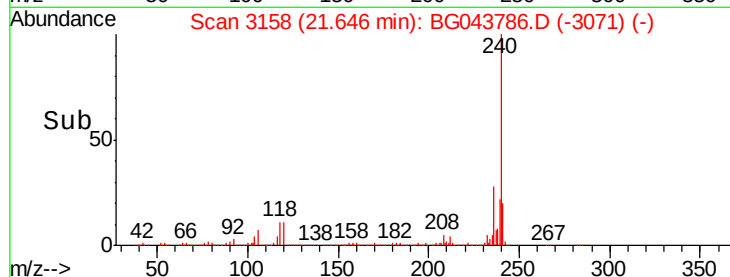
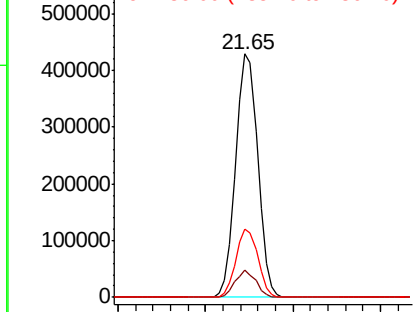


Abundance

Ion 240.00 (239.70 to 240.70): E

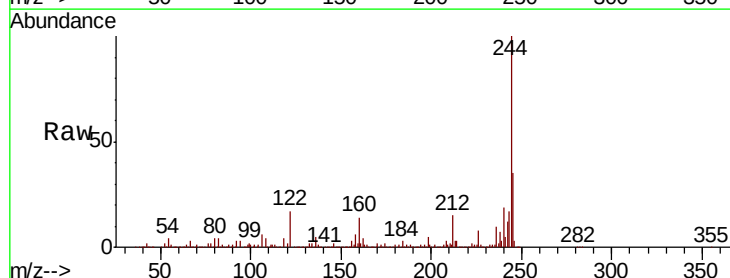
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77  
 Benzidine  
 Concen: 3.291 ng  
 RT: 20.01 min Scan# 2879  
 Delta R.T. 0.39 min  
 Lab File: BG043786.D  
 Acq: 27 Nov 2019 1:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 184     | 100   |       |       |
| 185     | 16.7  | 12.8  | 19.2  |
| 183     | 7.7   | 11.3  | 16.9  |

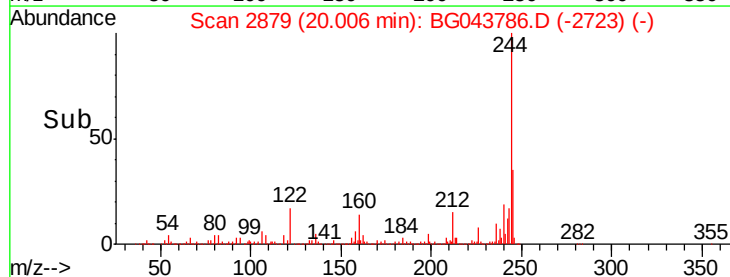
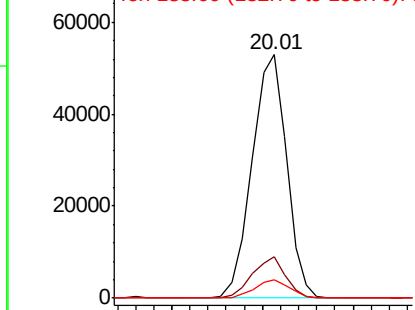


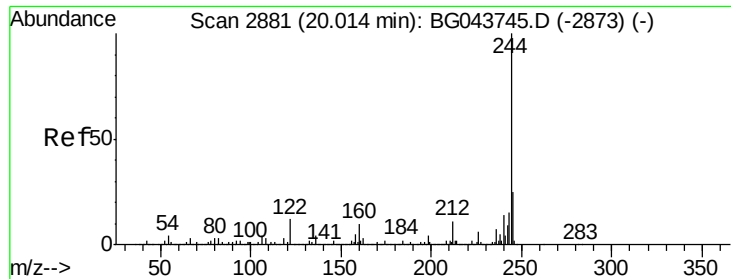
Abundance

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

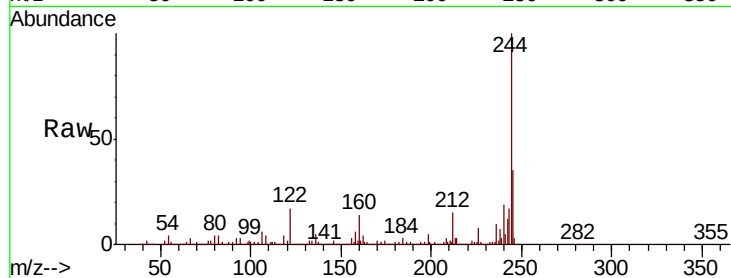




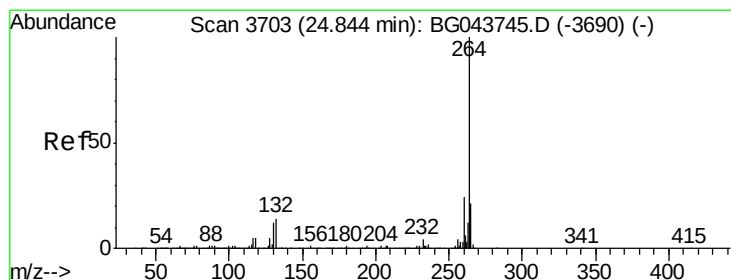
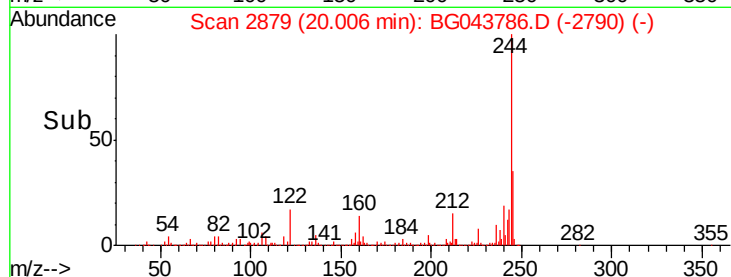
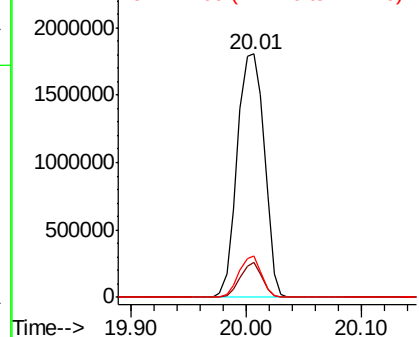
#79  
 Terphenyl-d14  
 Concen: 90.989 ng  
 RT: 20.01 min Scan# 2879  
 Delta R.T. -0.01 min  
 Lab File: BG043786.D  
 Acq: 27 Nov 2019 1:50

Instrument :  
 BNA\_G  
 ClientSampled :

Tot Ion:244 Resp: 2938120  
 Ion Ratio Lower Upper  
 244 100  
 212 14.5 8.5 12.7#  
 122 16.9 9.5 14.3#

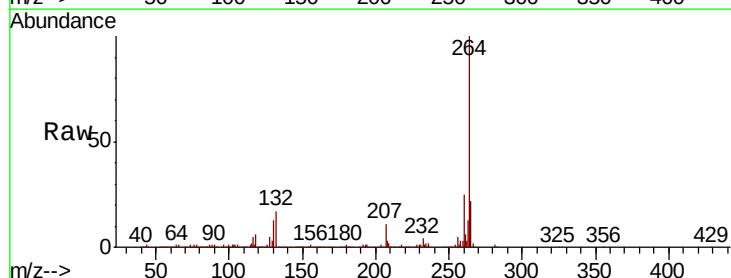


Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 24.82 min Scan# 3699  
 Delta R.T. -0.02 min  
 Lab File: BG043786.D  
 Acq: 27 Nov 2019 1:50

Tgt Ion:264 Resp: 717789  
 Ion Ratio Lower Upper  
 264 100  
 260 25.2 19.4 29.2  
 265 21.8 17.0 25.6



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

