

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG021020\  
 Data File : BG044378.D  
 Acq On : 11 Feb 2020 7:08  
 Operator : CG/JU  
 Sample : L1449-02  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Feb 11 08:07:03 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG013020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 10 16:11:50 2020  
 Response via : Initial Calibration

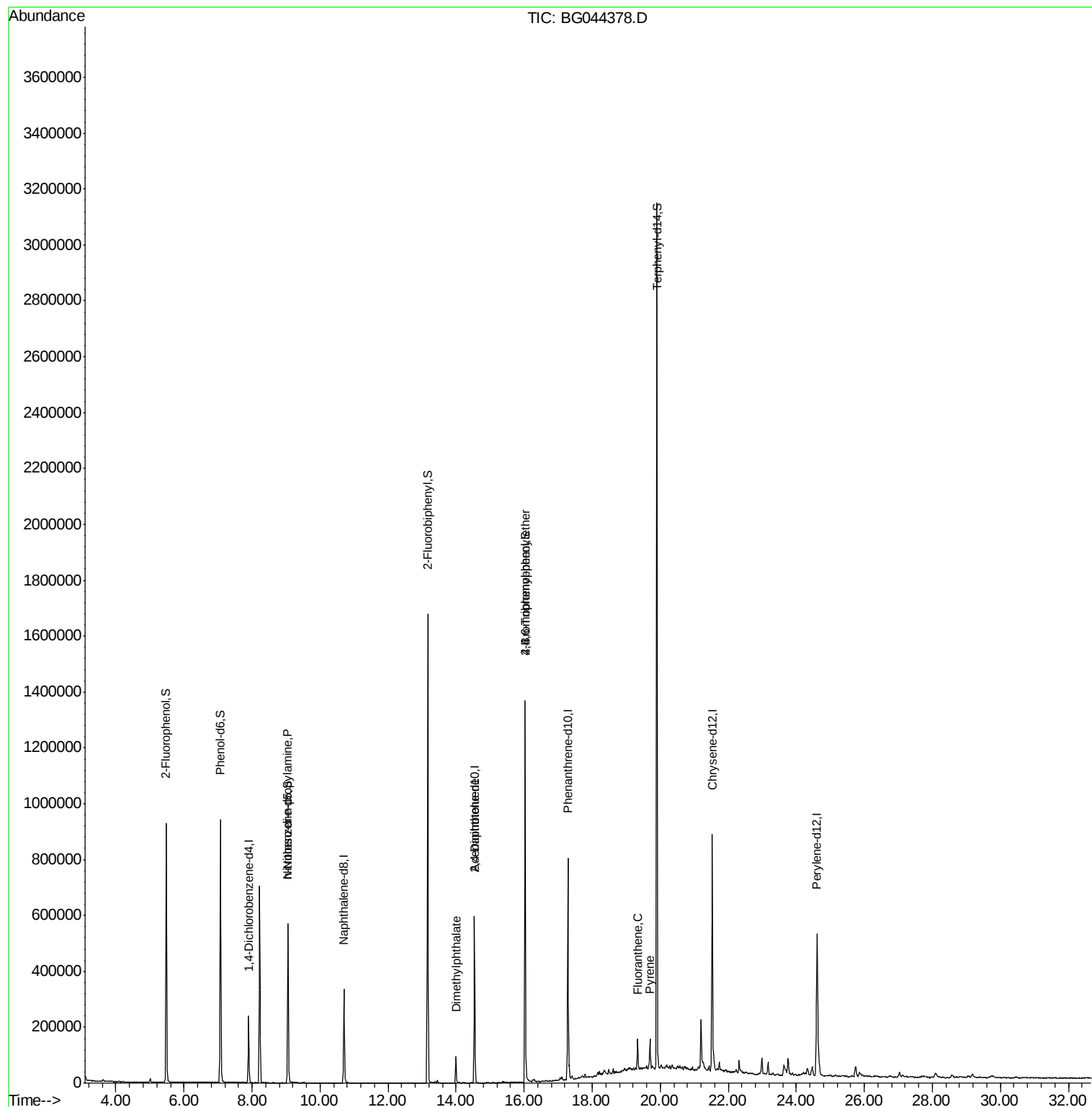
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|--------------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4      | 7.90  | 152  | 70747    | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8             | 10.70 | 136  | 321487   | 20.00  | ng    | 0.00        |
| 39) Acenaphthene-d10           | 14.54 | 164  | 223856   | 20.00  | ng    | 0.00        |
| 64) Phenanthrene-d10           | 17.28 | 188  | 512419   | 20.00  | ng    | 0.00        |
| 76) Chrysene-d12               | 21.53 | 240  | 476501   | 20.00  | ng    | 0.00        |
| 87) Perylene-d12               | 24.61 | 264  | 504735   | 20.00  | ng    | -0.01       |
| System Monitoring Compounds    |       |      |          |        |       |             |
| 5) 2-Fluorophenol              | 5.48  | 112  | 452568   | 112.90 | ng    | 0.00        |
| 7) Phenol-d6                   | 7.07  | 99   | 624953   | 116.10 | ng    | 0.00        |
| 23) Nitrobenzene-d5            | 9.06  | 82   | 376536   | 66.12  | ng    | 0.00        |
| 42) 2,4,6-Tribromophenol       | 16.03 | 330  | 272602   | 103.73 | ng    | 0.00        |
| 45) 2-Fluorobiphenyl           | 13.16 | 172  | 919108   | 68.75  | ng    | 0.00        |
| 79) Terphenyl-d14              | 19.90 | 244  | 1454685  | 62.79  | ng    | 0.00        |
| Target Compounds               |       |      |          |        |       |             |
| 19) n-Nitroso-di-n-propylamine | 9.06  | 70   | 48274    | 13.456 | ng    | Qvalue # 75 |
| 50) Dimethylphthalate          | 14.00 | 163  | 79510    | 4.941  | ng    | 98          |
| 57) 2,4-Dinitrotoluene         | 14.54 | 165  | 28528    | 5.673  | ng    | # 27        |
| 67) 4-Bromophenyl-phenylether  | 16.03 | 248  | 18975    | 3.399  | ng    | # 1         |
| 75) Fluoranthene               | 19.34 | 202  | 64253    | 2.238  | ng    | 96          |
| 78) Pyrene                     | 19.70 | 202  | 65736    | 2.148  | ng    | 93          |

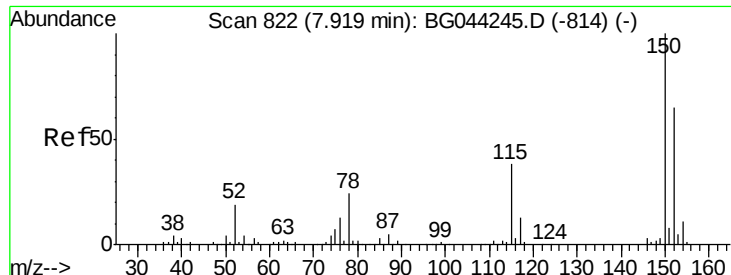
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG013020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Feb 10 16:11:50 2020  
Response via : Initial Calibration



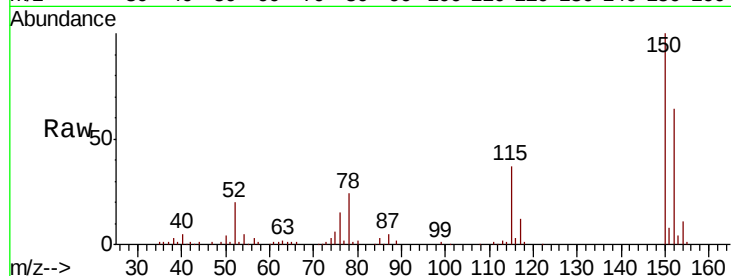


#1

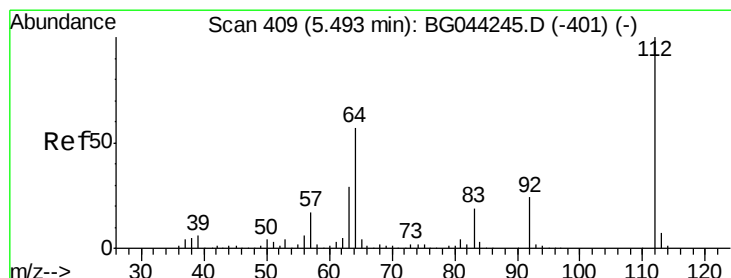
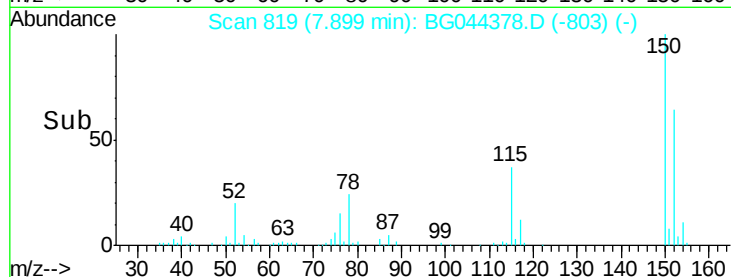
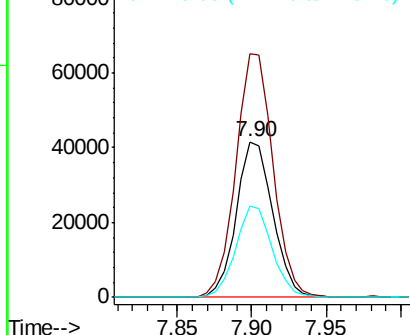
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 7.90 min Scan# 819  
 Delta R.T. -0.01 min  
 Lab File: BG044378.D  
 Acq: 11 Feb 2020 7:08

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.3 | 122.6 | 183.8 |
| 115     | 58.4  | 46.0  | 69.0  |



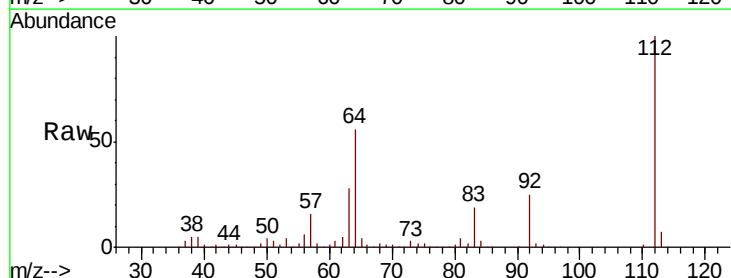
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



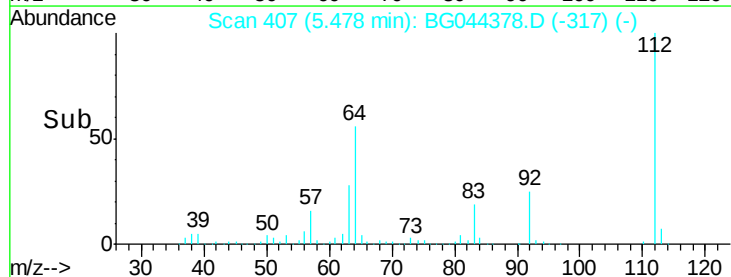
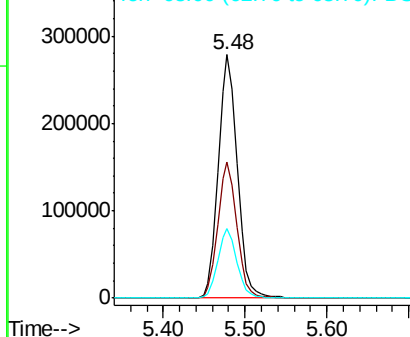
#5

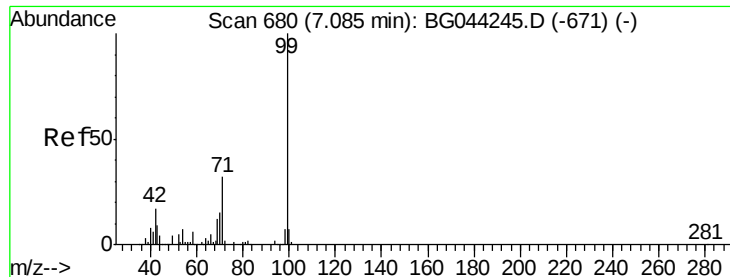
2-Fluorophenol  
 Concen: 112.897 ng  
 RT: 5.48 min Scan# 407  
 Delta R.T. -0.00 min  
 Lab File: BG044378.D  
 Acq: 11 Feb 2020 7:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.0  | 45.4  | 68.2  |
| 63      | 28.5  | 22.9  | 34.3  |



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: 116.096 ng

RT: 7.07 min Scan# 678

Delta R.T. -0.01 min

Lab File: BG044378.D

Acq: 11 Feb 2020 7:08

Instrument :

BNA\_G

ClientSampleId :

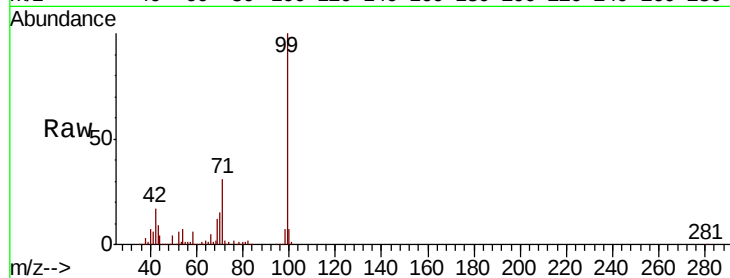
Tot Ion: 99 Resp: 624953

Ion Ratio Lower Upper

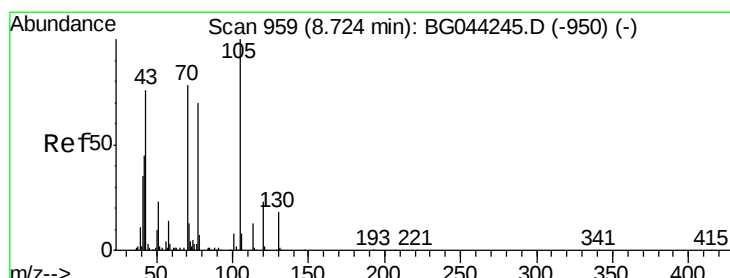
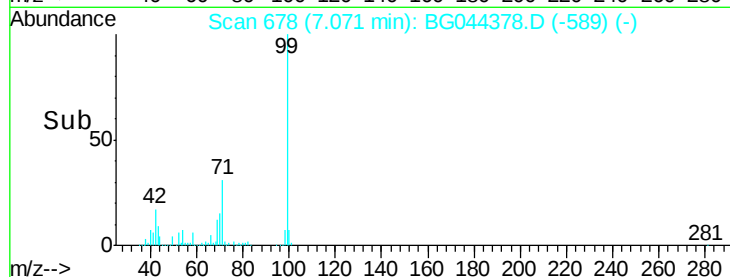
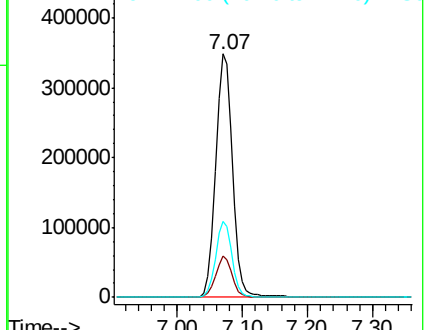
99 100

42 16.9 13.8 20.6

71 31.2 25.5 38.3



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: 13.456 ng

RT: 9.06 min Scan# 1016

Delta R.T. 0.35 min

Lab File: BG044378.D

Acq: 11 Feb 2020 7:08

Tgt Ion: 70 Resp: 48274

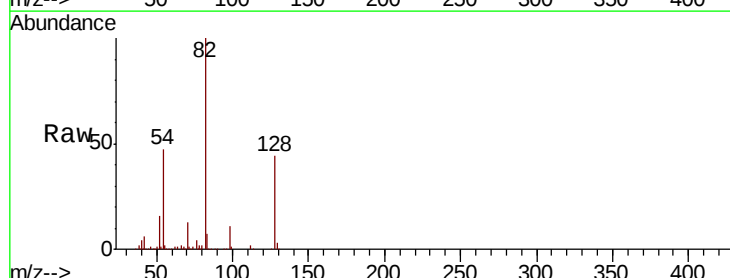
Ion Ratio Lower Upper

70 100

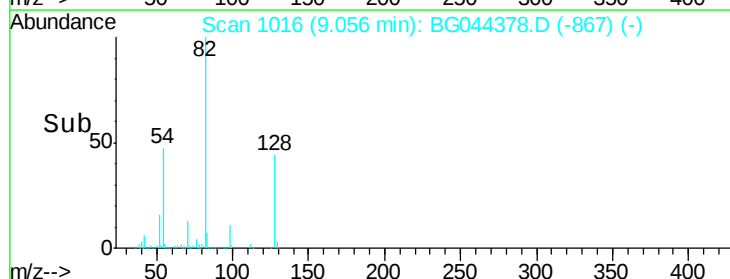
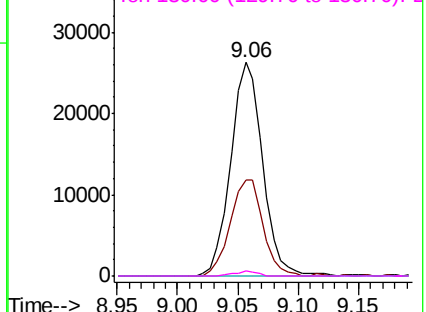
42 44.9 46.2 69.2#

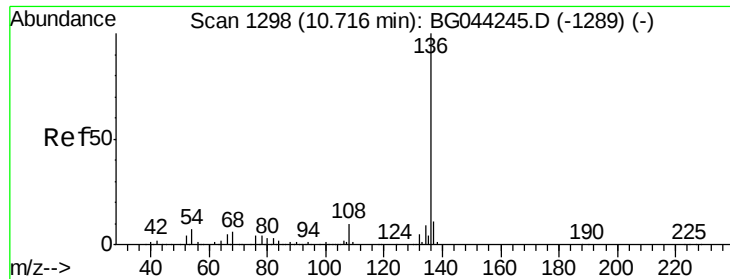
101 0.0 8.4 12.6#

130 2.3 17.8 26.8#



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

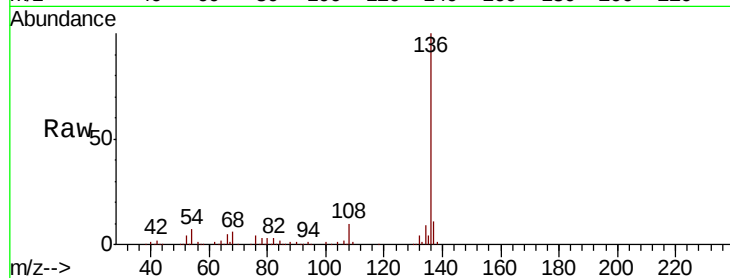




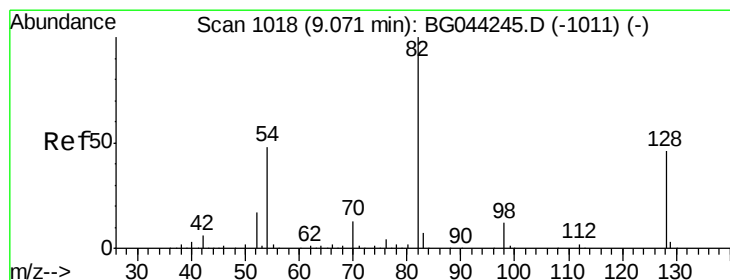
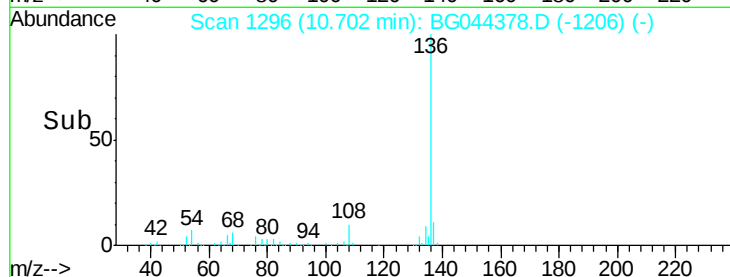
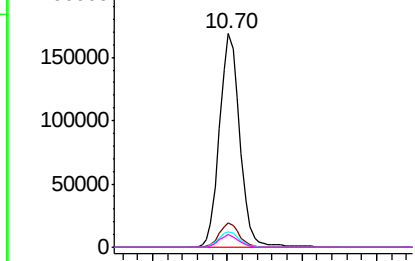
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.70 min Scan# 1296  
Delta R.T. -0.00 min  
Lab File: BG044378.D  
Acq: 11 Feb 2020 7:08

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 321487      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 11.5  | 8.8 13.2    |
| 54          | 7.2   | 5.8 8.8     |
| 68          | 6.1   | 4.6 6.8     |

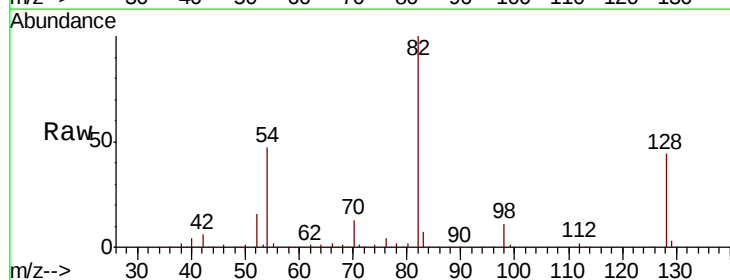


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

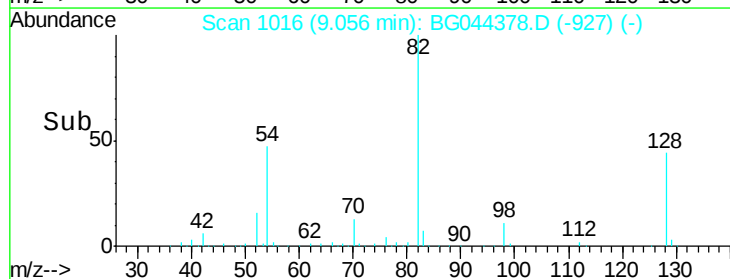
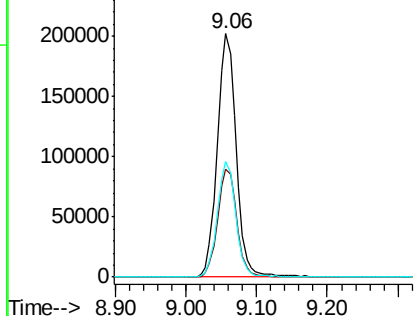


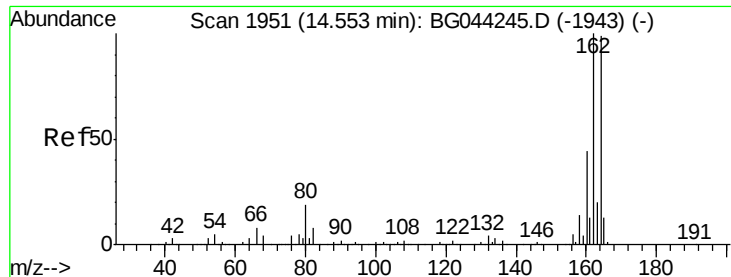
#23  
Nitrobenzene-d5  
Concen: 66.123 ng  
RT: 9.06 min Scan# 1016  
Delta R.T. -0.01 min  
Lab File: BG044378.D  
Acq: 11 Feb 2020 7:08

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 376536      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 44.5  | 36.5 54.7   |
| 54          | 47.3  | 38.6 58.0   |



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

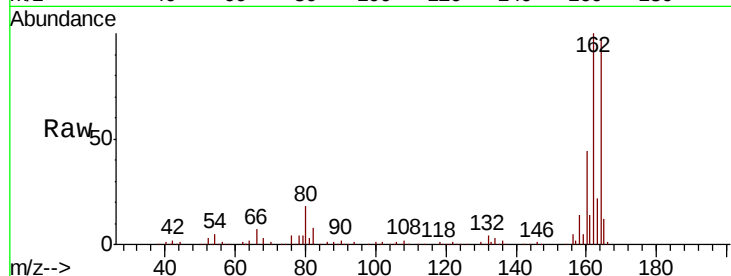




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.54 min Scan# 1950  
Delta R.T. -0.00 min  
Lab File: BG044378.D  
Acq: 11 Feb 2020 7:08

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.5 | 80.7  | 121.1 |
| 160     | 45.1  | 35.3  | 52.9  |

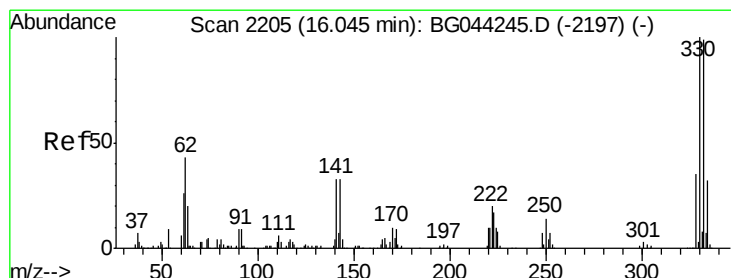
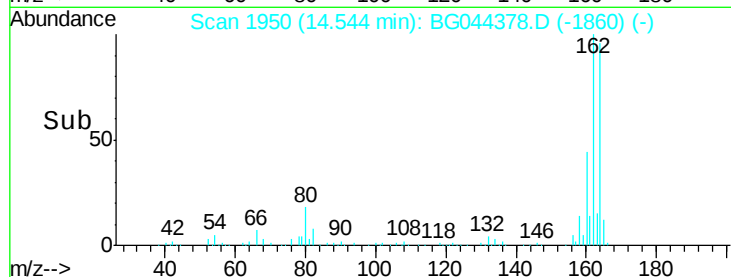
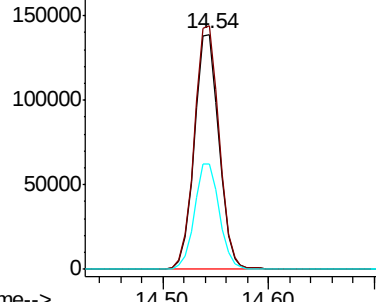


Abundance

Ion 164.00 (163.70 to 164.70): E

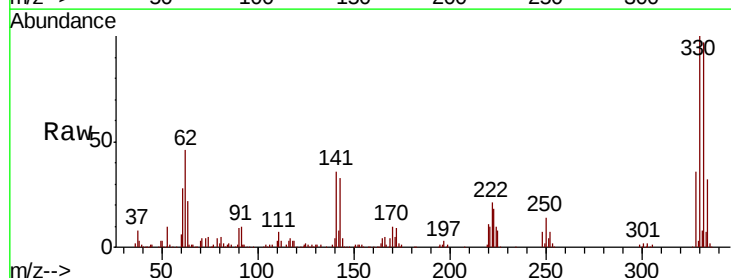
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42  
2,4,6-Tribromophenol  
Concen: 103.732 ng  
RT: 16.03 min Scan# 2203  
Delta R.T. -0.00 min  
Lab File: BG044378.D  
Acq: 11 Feb 2020 7:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.2  | 77.2  | 115.8 |
| 141     | 36.0  | 28.3  | 42.5  |

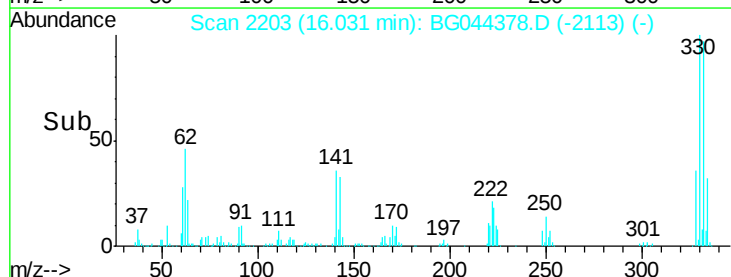
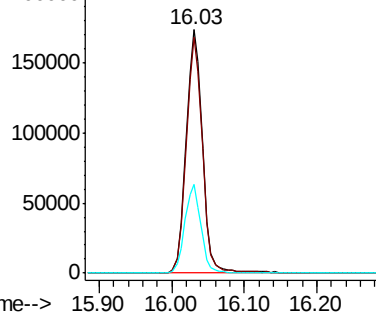


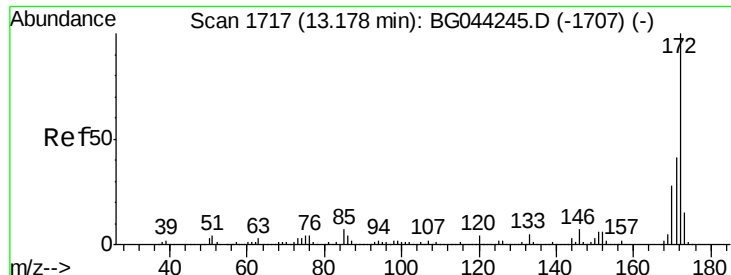
Abundance

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

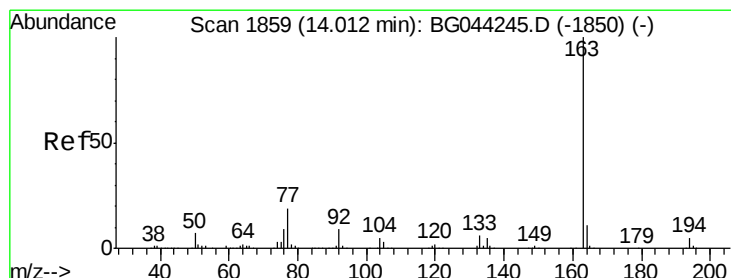
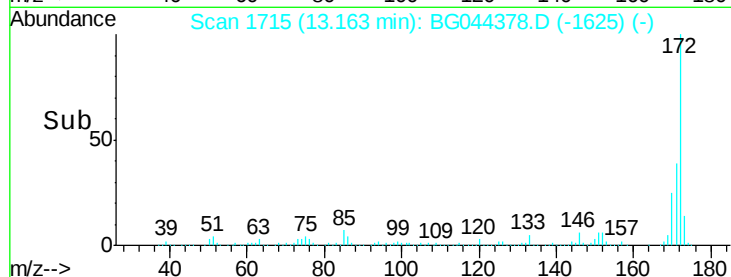
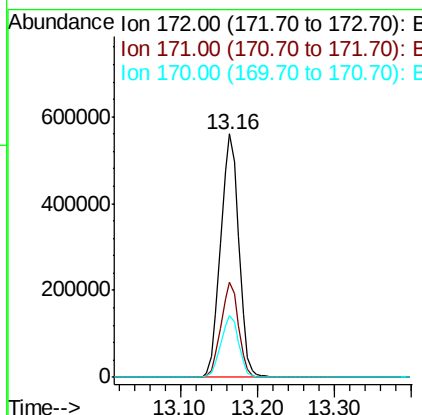
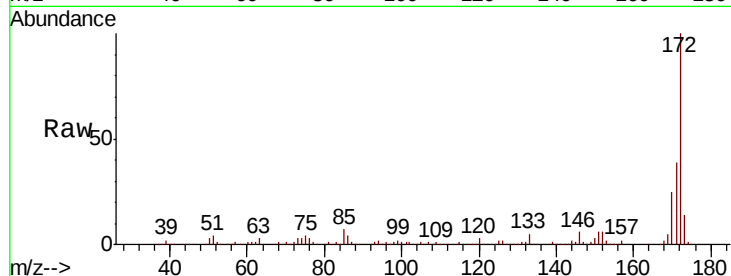




#45  
2-Fluorobiphenyl  
Concen: 68.754 ng  
RT: 13.16 min Scan# 1715  
Delta R.T. -0.00 min  
Lab File: BG044378.D  
Acq: 11 Feb 2020 7:08

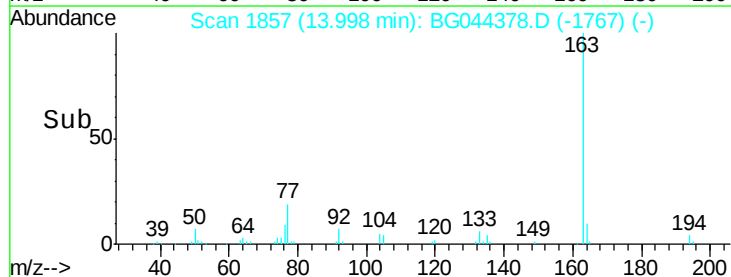
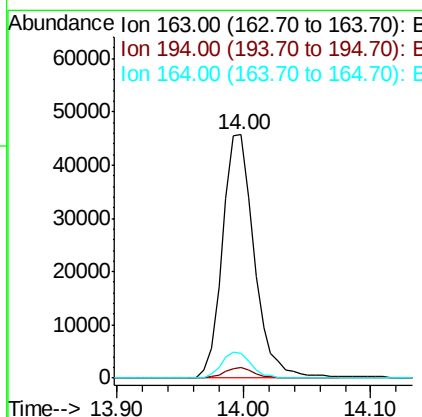
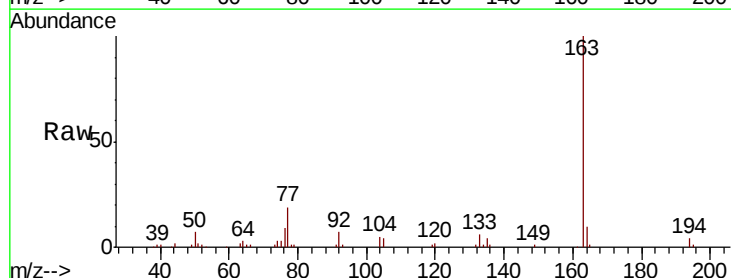
Instrument :  
BNA\_G  
ClientSampleId :

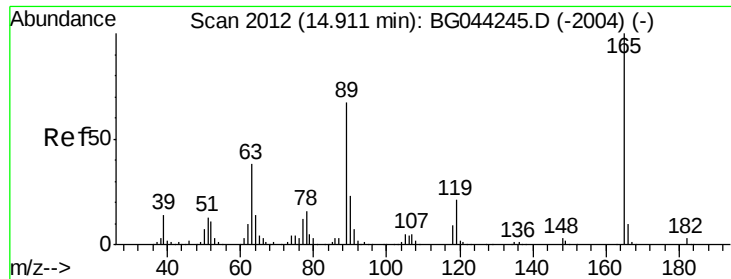
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 39.2  | 32.9  | 49.3  |
| 170     | 25.4  | 22.0  | 33.0  |



#50  
Dimethylphthalate  
Concen: 4.941 ng  
RT: 14.00 min Scan# 1857  
Delta R.T. -0.00 min  
Lab File: BG044378.D  
Acq: 11 Feb 2020 7:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.3   | 3.6   | 5.4   |
| 164     | 10.1  | 8.7   | 13.1  |

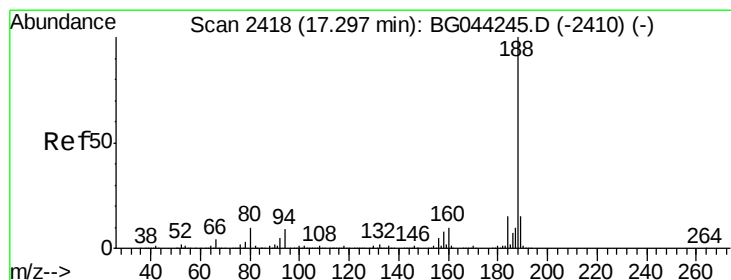
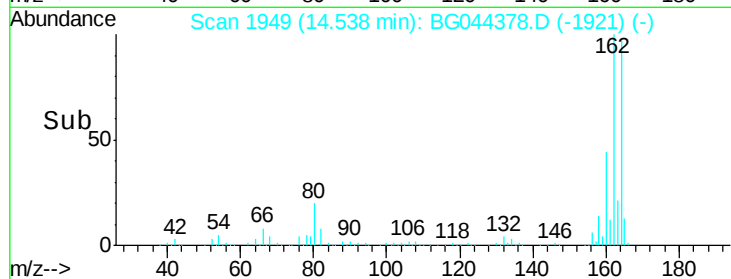
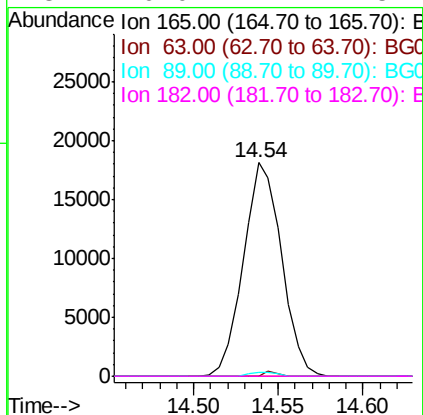
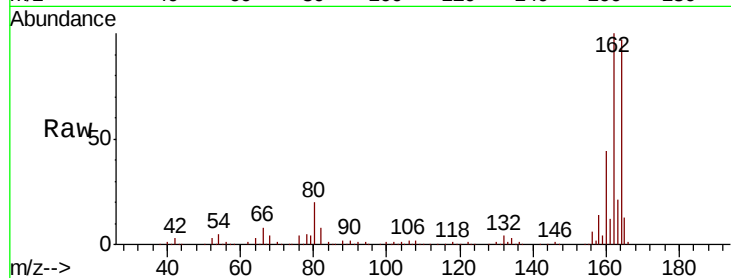




#57  
 2,4-Dinitrotoluene  
 Concen: 5.673 ng  
 RT: 14.54 min Scan# 1949  
 Delta R.T. -0.36 min  
 Lab File: BG044378.D  
 Acq: 11 Feb 2020 7:08

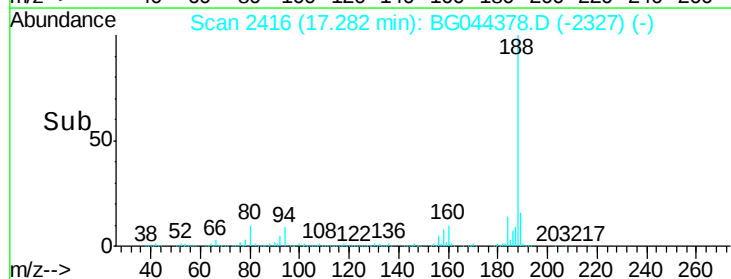
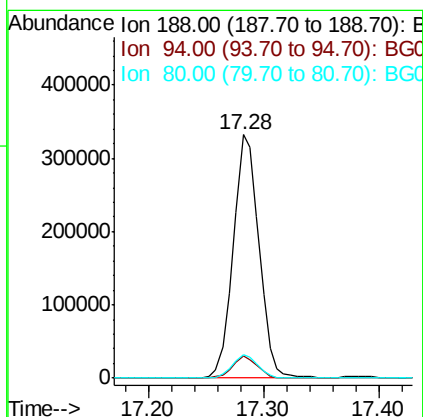
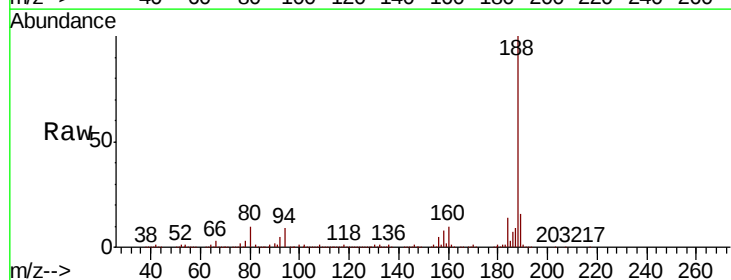
Instrument :  
 BNA\_G  
 ClientSampled :

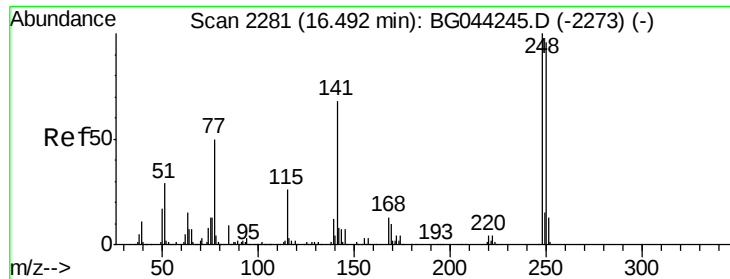
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 30.3  | 45.5# |
| 89      | 2.1   | 53.4  | 80.2# |
| 182     | 0.0   | 2.1   | 3.1#  |



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.28 min Scan# 2416  
 Delta R.T. -0.01 min  
 Lab File: BG044378.D  
 Acq: 11 Feb 2020 7:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.9   | 7.4   | 11.2  |
| 80      | 9.7   | 7.7   | 11.5  |

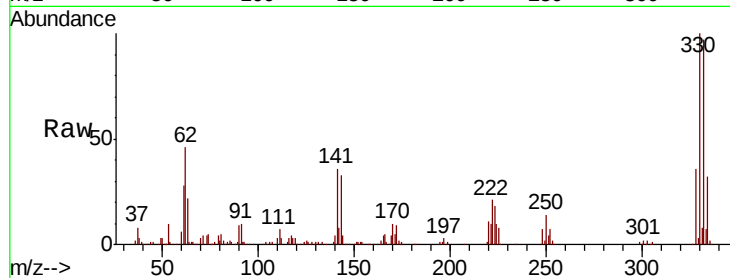




#67  
 4-Bromophenyl-phenylether  
 Concen: 3.399 ng  
 RT: 16.03 min Scan# 2203  
 Delta R.T. -0.45 min  
 Lab File: BG044378.D  
 Acq: 11 Feb 2020 7:08

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 192.0 | 76.6  | 114.8# |
| 141     | 500.1 | 54.7  | 82.1#  |

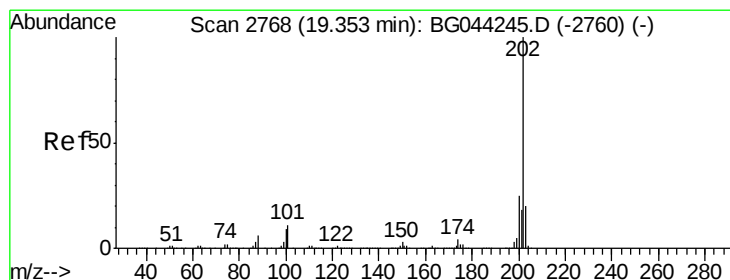
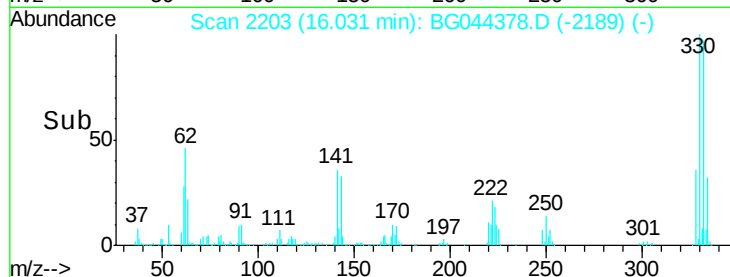
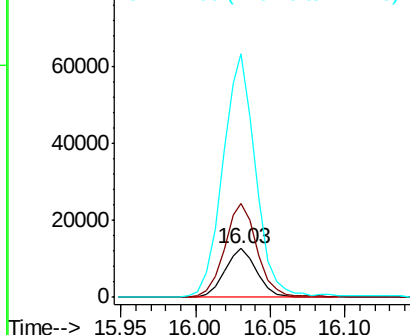


Abundance

Ion 248.00 (247.70 to 248.70): E

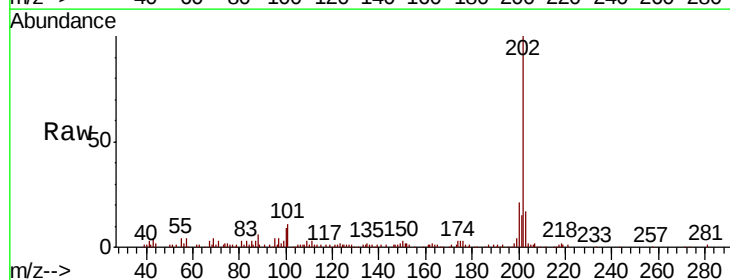
Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#75  
 Fluoranthene  
 Concen: 2.238 ng  
 RT: 19.34 min Scan# 2766  
 Delta R.T. -0.00 min  
 Lab File: BG044378.D  
 Acq: 11 Feb 2020 7:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.2  | 0.0   | 31.3  |
| 203     | 17.3  | 0.0   | 39.9  |

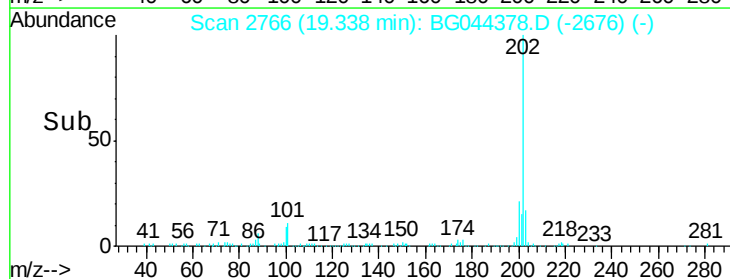
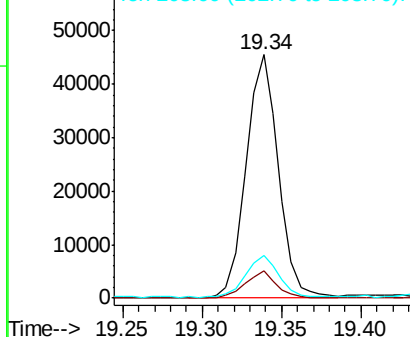


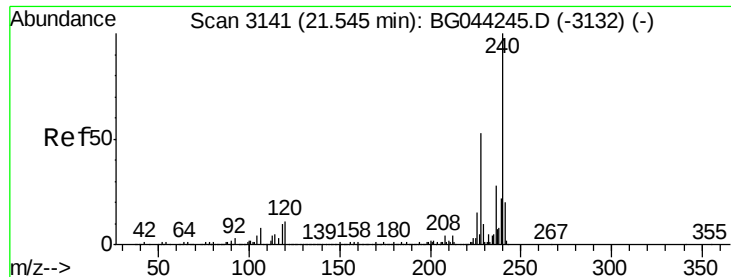
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

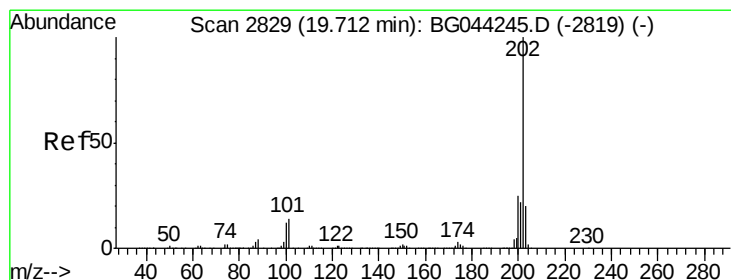
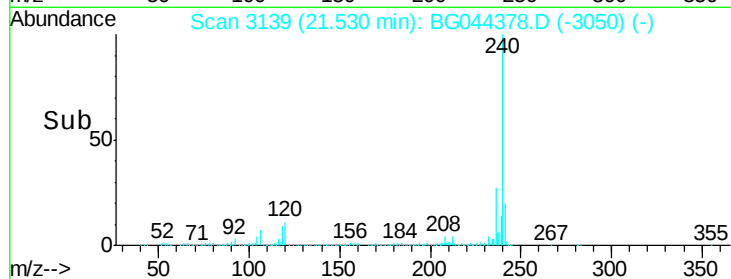
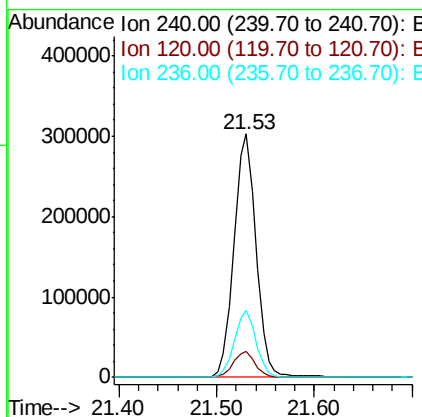
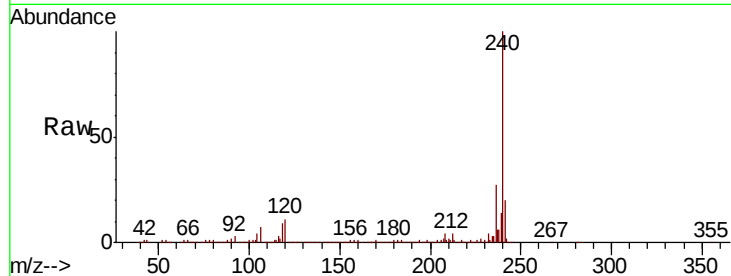




#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.53 min Scan# 3139  
 Delta R.T. -0.01 min  
 Lab File: BG044378.D  
 Acq: 11 Feb 2020 7:08

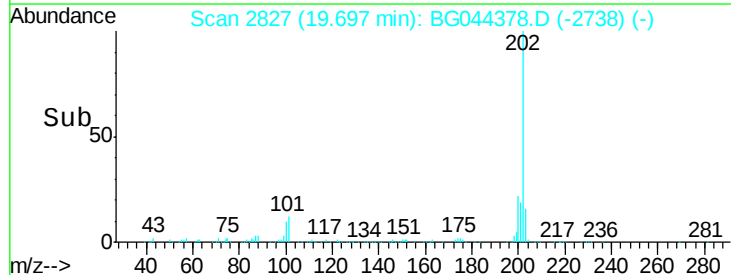
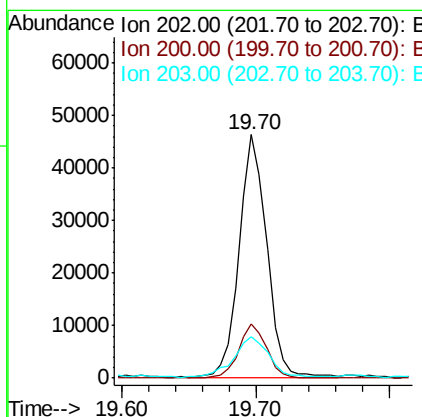
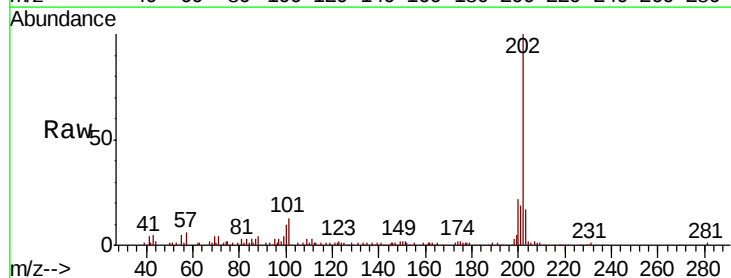
Instrument :  
 BNA\_G  
 ClientSampleId :

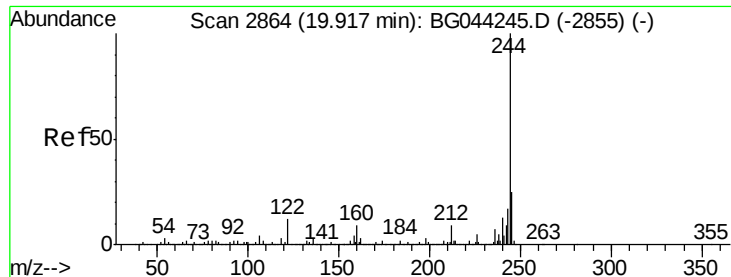
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 10.5  | 8.4   | 12.6  |
| 236     | 27.5  | 22.1  | 33.1  |



#78  
 Pyrene  
 Concen: 2.148 ng  
 RT: 19.70 min Scan# 2827  
 Delta R.T. -0.01 min  
 Lab File: BG044378.D  
 Acq: 11 Feb 2020 7:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 22.0  | 20.0  | 30.0  |
| 203     | 16.8  | 16.2  | 24.2  |





#79

Terphenyl-d14

Concen: 62.793 ng

RT: 19.90 min Scan# 2862

Delta R.T. -0.00 min

Lab File: BG044378.D

Acq: 11 Feb 2020 7:08

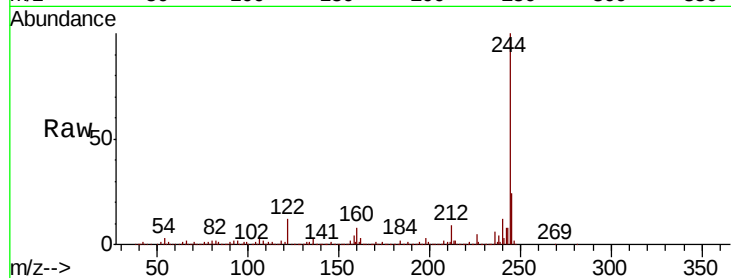
Instrument :

BNA\_G

ClientSampled :

Tot Ion:244 Resp: 1454685

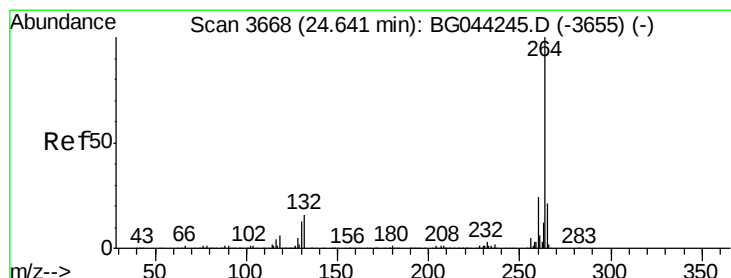
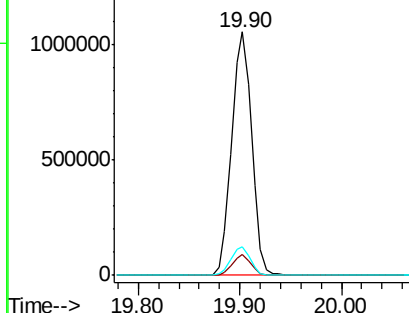
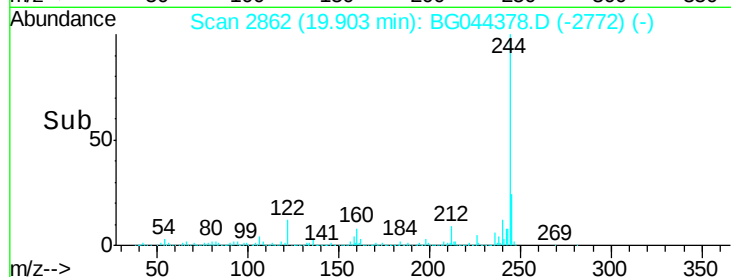
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 8.5   | 7.4   | 11.2  |
| 122 | 11.8  | 9.8   | 14.6  |



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: 24.61 min Scan# 3663

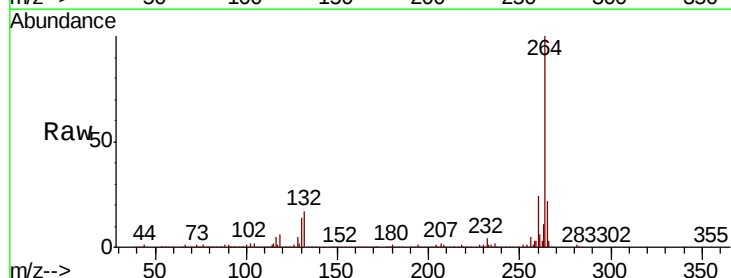
Delta R.T. -0.01 min

Lab File: BG044378.D

Acq: 11 Feb 2020 7:08

Tgt Ion:264 Resp: 504735

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.4  | 19.4  | 29.2  |
| 265 | 21.9  | 16.7  | 25.1  |



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

