

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG040219\  
 Data File : BG040312.D  
 Acq On : 3 Apr 2019 1:22  
 Operator : JU/SJ  
 Sample : K2180-32  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Apr 03 03:14:19 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG032719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 28 05:47:00 2019  
 Response via : Initial Calibration

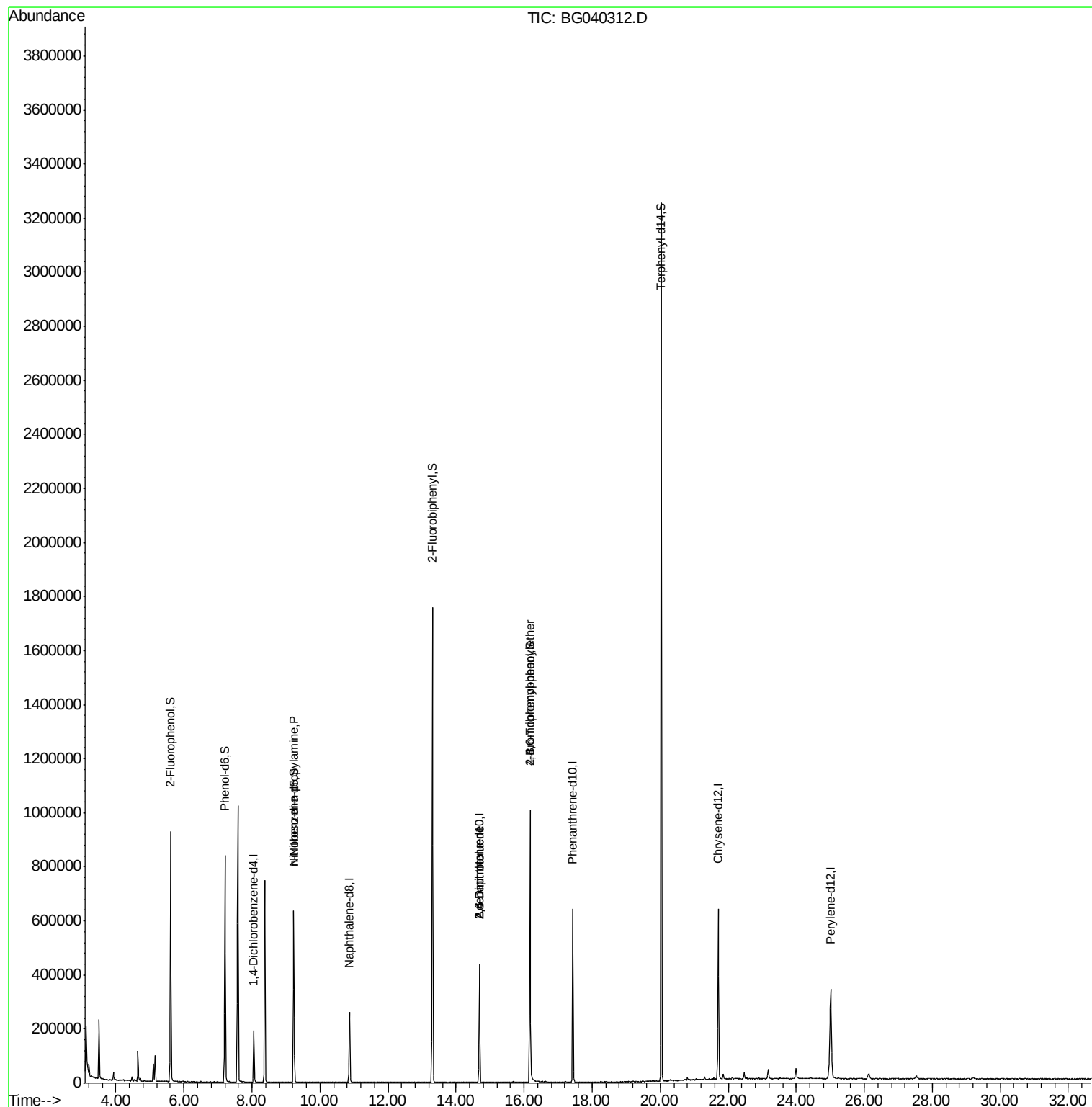
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.05  | 152  | 52985    | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 10.87 | 136  | 222578   | 20.00  | ng    | -0.02    |
| 39) Acenaphthene-d10           | 14.69 | 164  | 154544   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10           | 17.43 | 188  | 392239   | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12               | 21.71 | 240  | 391432   | 20.00  | ng    | -0.02    |
| 87) Perylene-d12               | 25.01 | 264  | 386971   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.61  | 112  | 397307   | 124.66 | ng    | -0.01    |
| 7) Phenol-d6                   | 7.21  | 99   | 504745   | 114.59 | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 9.23  | 82   | 387384   | 92.51  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 16.17 | 330  | 194576   | 116.50 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl           | 13.31 | 172  | 933175   | 89.47  | ng    | -0.02    |
| 79) Terphenyl-d14              | 20.03 | 244  | 1528458  | 87.84  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.23  | 70   | 48060    | 15.218 | ng    | # 72     |
| 51) 2,6-Dinitrotoluene         | 14.68 | 165  | 19891    | 7.324  | ng    | # 25     |
| 57) 2,4-Dinitrotoluene         | 14.68 | 165  | 19891    | 5.271  | ng    | # 25     |
| 67) 4-Bromophenyl-phenylether  | 16.17 | 248  | 15133    | 3.428  | ng    | # 1      |

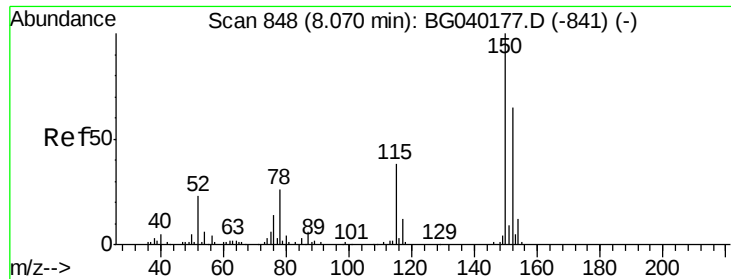
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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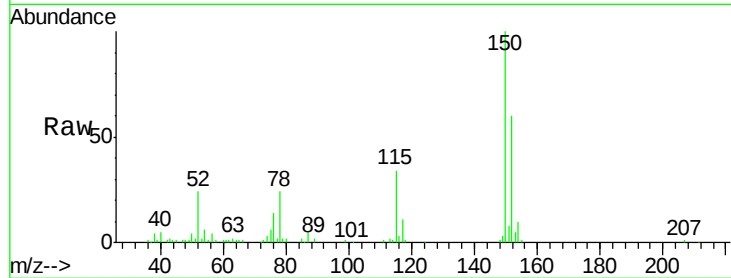


#1

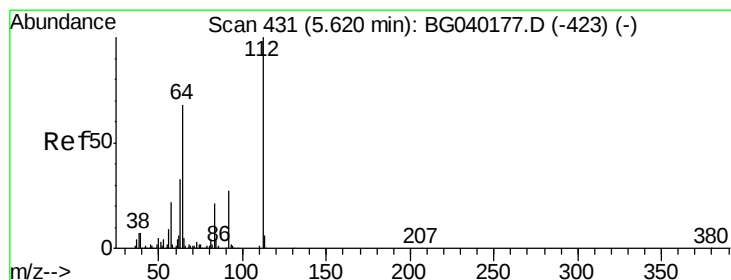
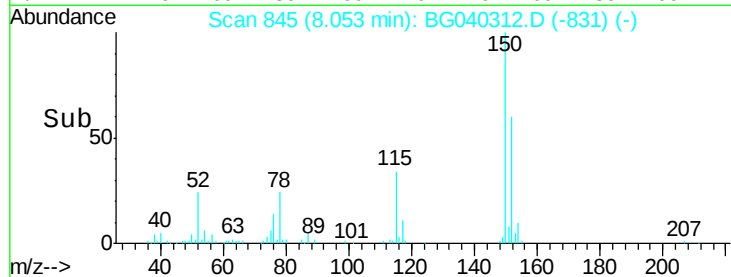
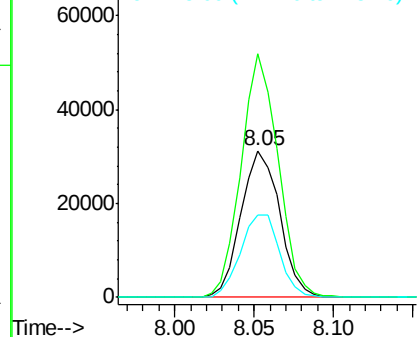
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.05 min Scan# 845  
Delta R.T. -0.02 min  
Lab File: BG040312.D  
Acq: 3 Apr 2019 1:22

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 165.8 | 123.7 | 185.5 |
| 115     | 56.2  | 46.9  | 70.3  |



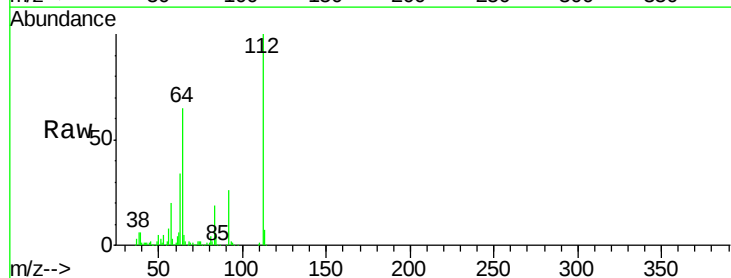
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



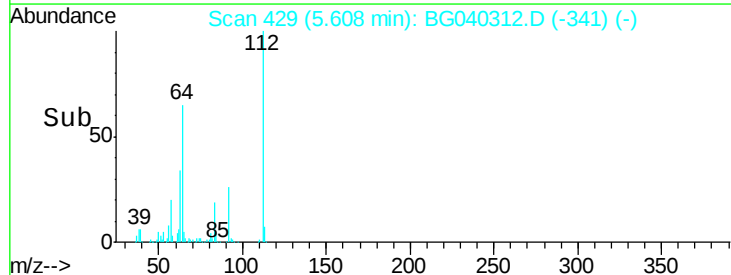
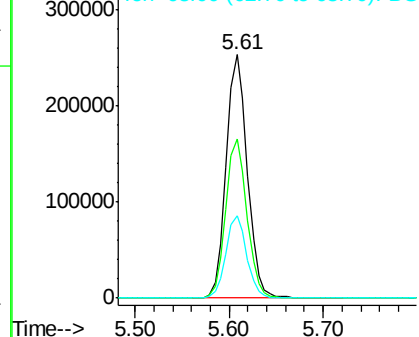
#5

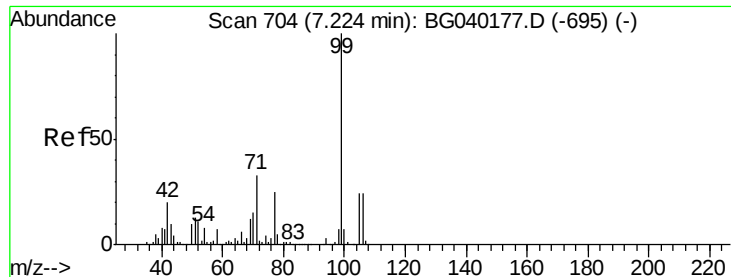
2-Fluorophenol  
Concen: 124.656 ng  
RT: 5.61 min Scan# 429  
Delta R.T. -0.01 min  
Lab File: BG040312.D  
Acq: 3 Apr 2019 1:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 65.2  | 54.2  | 81.2  |
| 63      | 33.8  | 26.4  | 39.6  |



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





#7

Phenol-d6

Concen: 114.589 ng

RT: 7.21 min Scan# 701

Delta R.T. -0.02 min

Lab File: BG040312.D

Acq: 3 Apr 2019 1:22

Instrument :

BNA\_G

ClientSampleId :

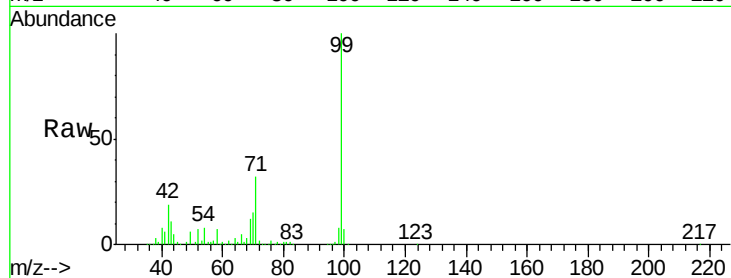
Tot Ion: 99 Resp: 504745

Ion Ratio Lower Upper

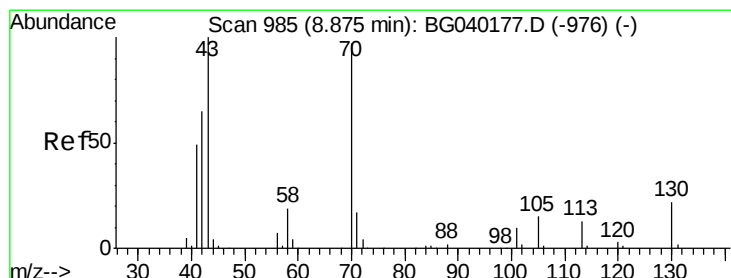
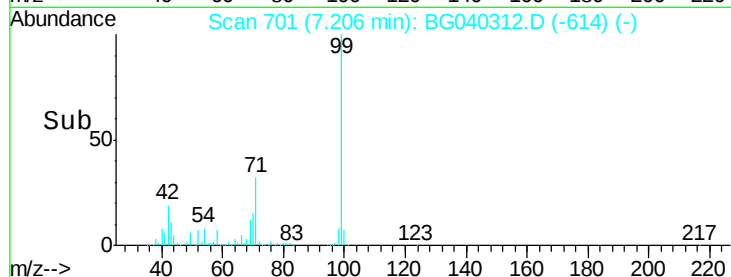
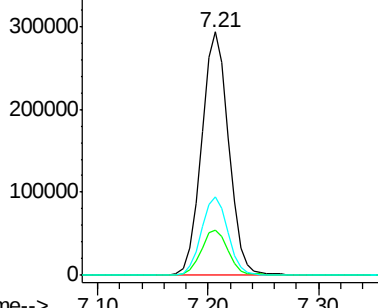
99 100

42 18.5 16.2 24.2

71 32.1 26.8 40.2



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: 15.218 ng

RT: 9.23 min Scan# 1045

Delta R.T. 0.35 min

Lab File: BG040312.D

Acq: 3 Apr 2019 1:22

Tgt Ion: 70 Resp: 48060

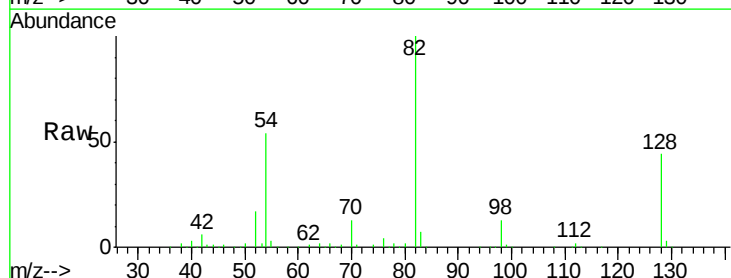
Ion Ratio Lower Upper

70 100

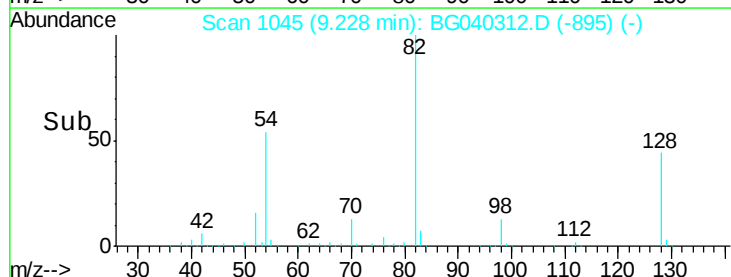
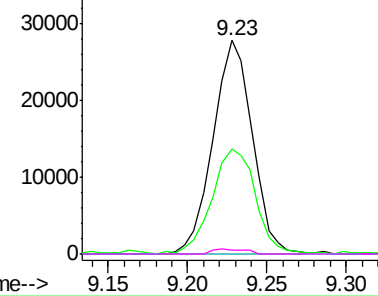
42 49.0 54.0 81.0#

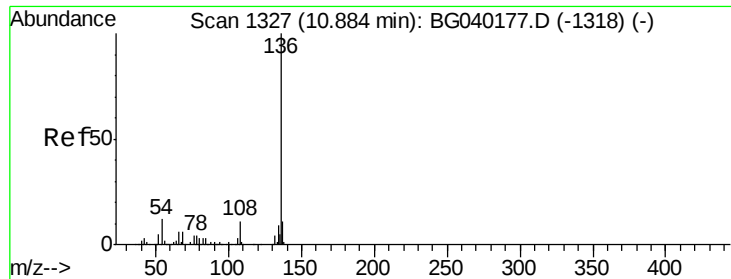
101 0.0 8.6 13.0#

130 1.9 18.2 27.2#



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

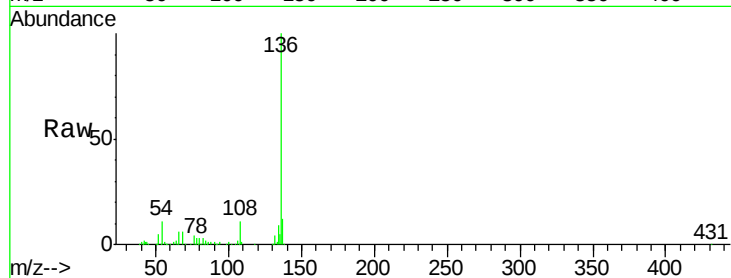




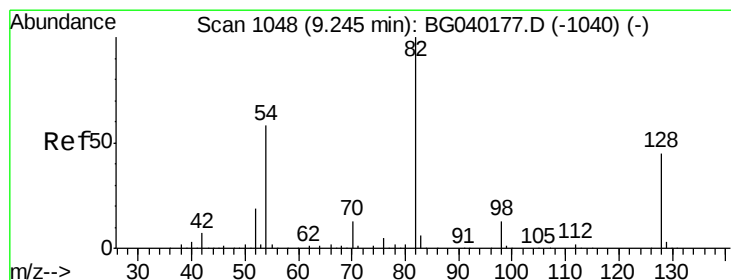
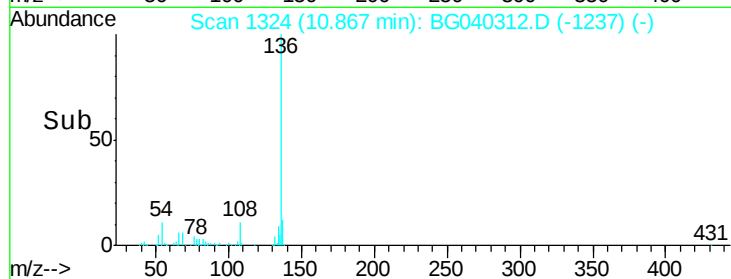
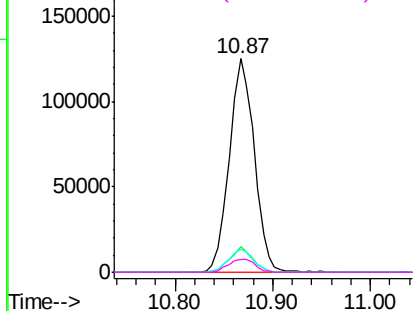
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.87 min Scan# 1324  
Delta R.T. -0.02 min  
Lab File: BG040312.D  
Acq: 3 Apr 2019 1:22

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |        |
|-------------|-------|--------|
| Tot Ion:136 | Resp: | 222578 |
| Ion Ratio   | Lower | Upper  |
| 136 100     |       |        |
| 137 11.8    | 8.9   | 13.3   |
| 54 10.9     | 9.6   | 14.4   |
| 68 6.3      | 5.1   | 7.7    |

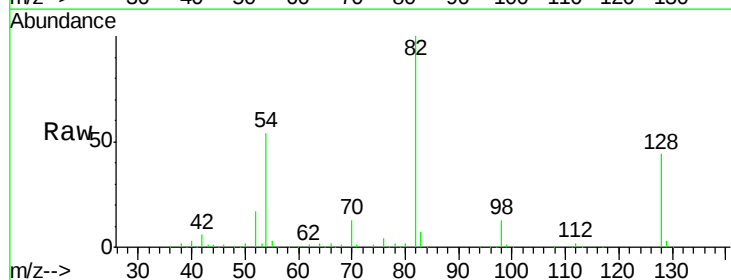


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

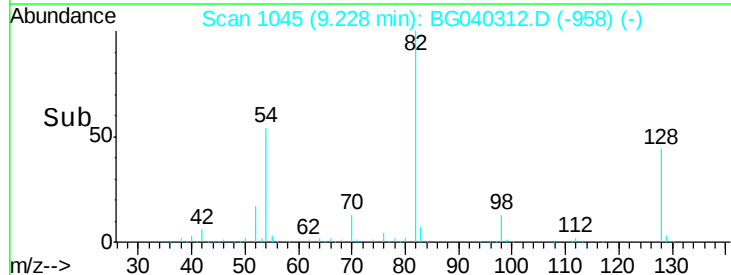
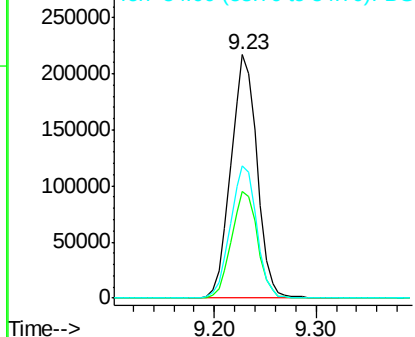


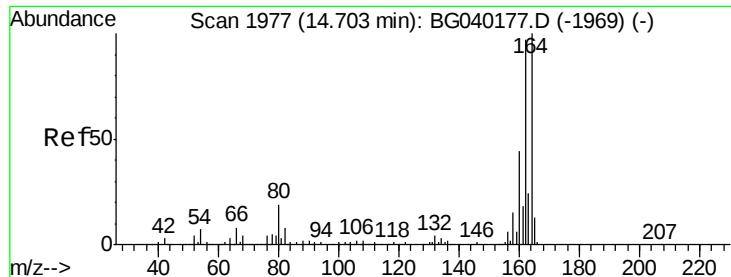
#23  
Nitrobenzene-d5  
Concen: 92.510 ng  
RT: 9.23 min Scan# 1045  
Delta R.T. -0.02 min  
Lab File: BG040312.D  
Acq: 3 Apr 2019 1:22

|         |           |             |              |
|---------|-----------|-------------|--------------|
| Tgt Ion | 82        | Resp: Lower | 387384 Upper |
|         | Ratio 100 |             |              |
| 128     | 43.7      | 35.8        | 53.8         |
| 54      | 54.5      | 46.2        | 69.2         |



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

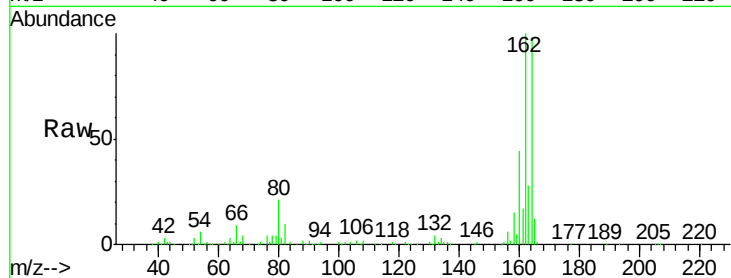




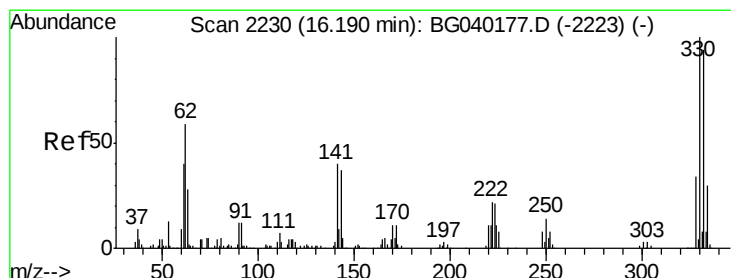
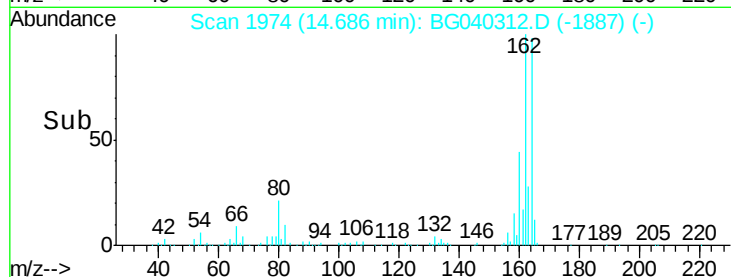
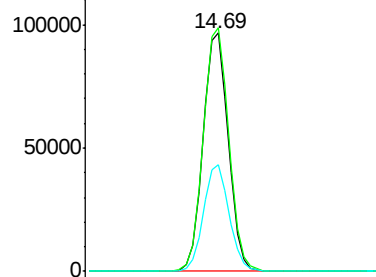
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.69 min Scan# 1974  
Delta R.T. -0.02 min  
Lab File: BG040312.D  
Acq: 3 Apr 2019 1:22

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:164 Resp: 154544  
Ion Ratio Lower Upper  
164 100  
162 102.2 77.4 116.2  
160 45.0 35.3 52.9

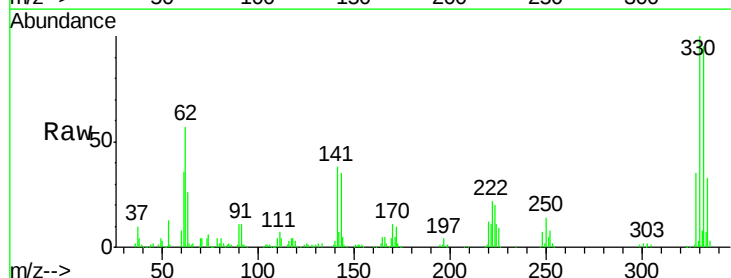


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

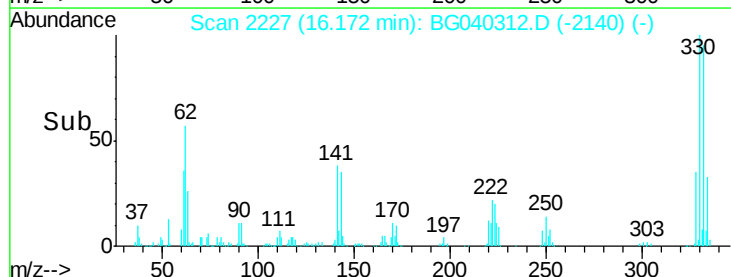
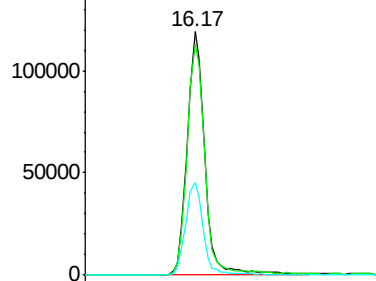


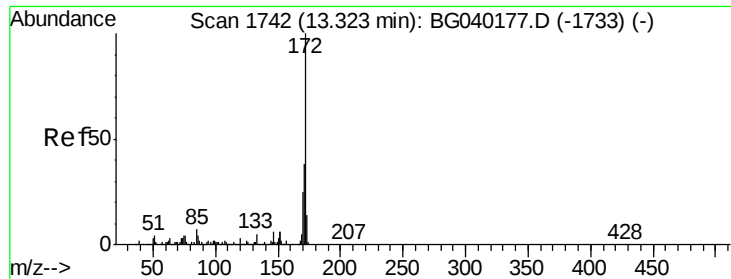
#42  
2,4,6-Tribromophenol  
Concen: 116.497 ng  
RT: 16.17 min Scan# 2227  
Delta R.T. -0.02 min  
Lab File: BG040312.D  
Acq: 3 Apr 2019 1:22

Tgt Ion:330 Resp: 194576  
Ion Ratio Lower Upper  
330 100  
332 96.1 76.6 115.0  
141 37.8 32.6 48.8



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

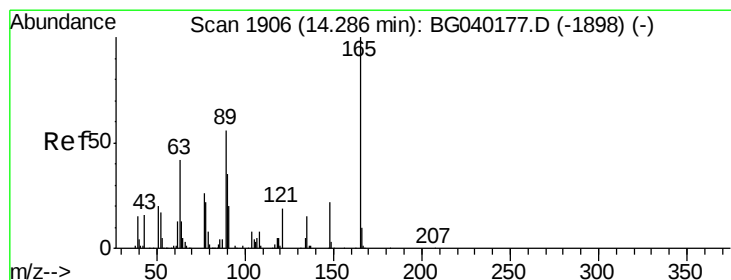
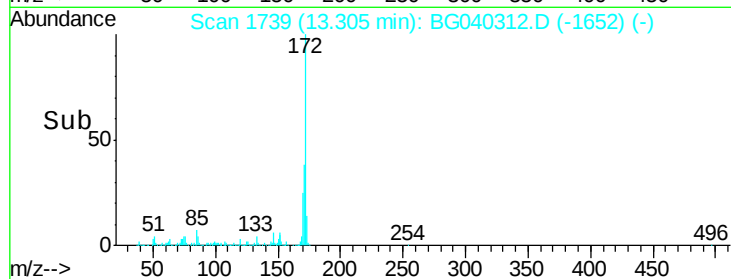
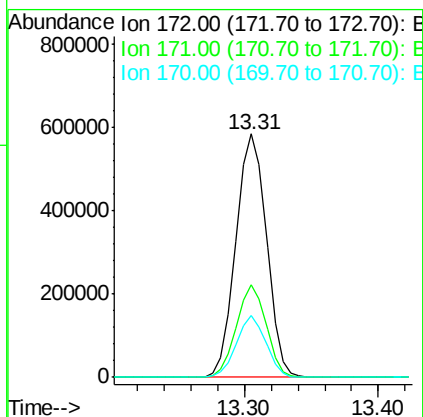
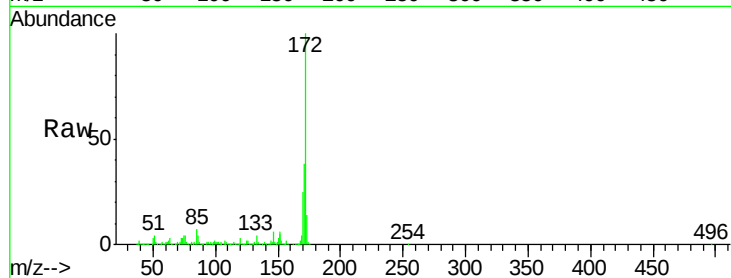




#45  
2-Fluorobiphenyl  
Concen: 89.472 ng  
RT: 13.31 min Scan# 1739  
Delta R.T. -0.02 min  
Lab File: BG040312.D  
Acq: 3 Apr 2019 1:22

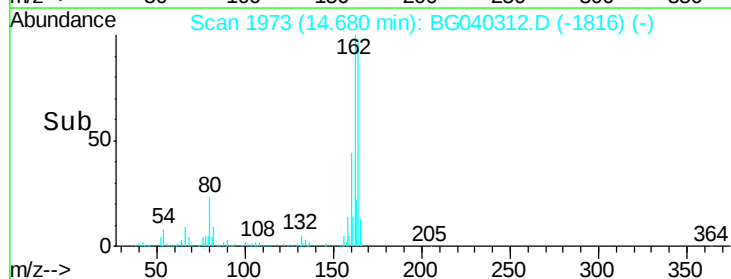
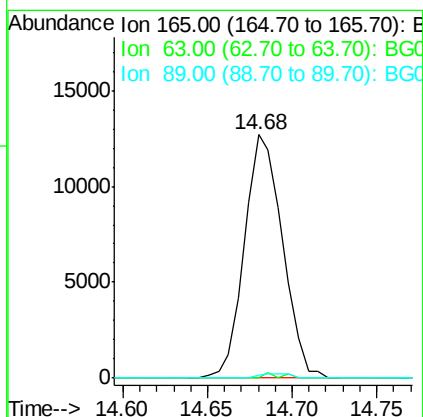
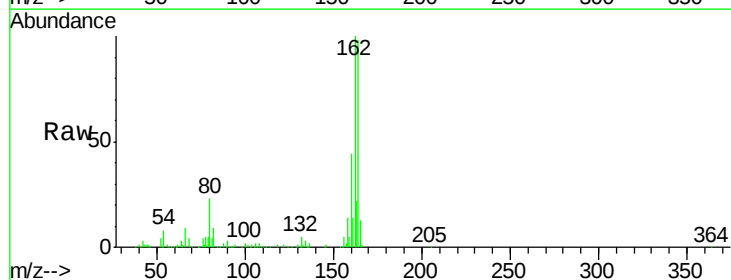
Instrument :  
BNA\_G  
ClientSampleId :

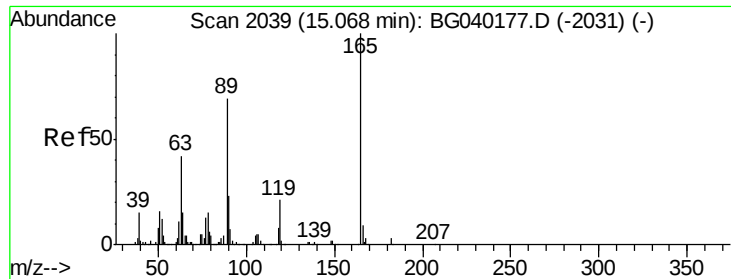
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.1  | 30.5  | 45.7  |
| 170     | 25.2  | 20.1  | 30.1  |



#51  
2,6-Dinitrotoluene  
Concen: 7.324 ng  
RT: 14.68 min Scan# 1973  
Delta R.T. 0.39 min  
Lab File: BG040312.D  
Acq: 3 Apr 2019 1:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 44.1  | 66.1# |
| 89      | 1.5   | 44.9  | 67.3# |

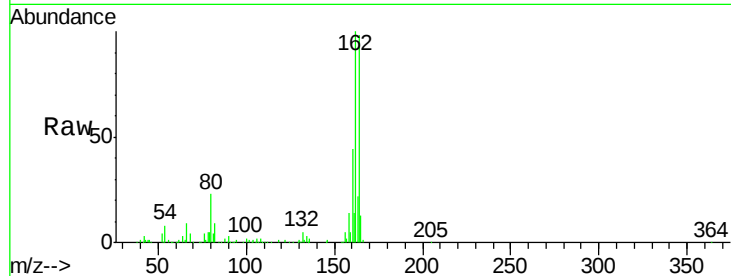




#57  
 2,4-Dinitrotoluene  
 Concen: 5.271 ng  
 RT: 14.68 min Scan# 1973  
 Delta R.T. -0.39 min  
 Lab File: BG040312.D  
 Acq: 3 Apr 2019 1:22

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 33.8  | 50.6# |
| 89      | 1.5   | 55.4  | 83.2# |
| 182     | 0.0   | 2.2   | 3.4#  |

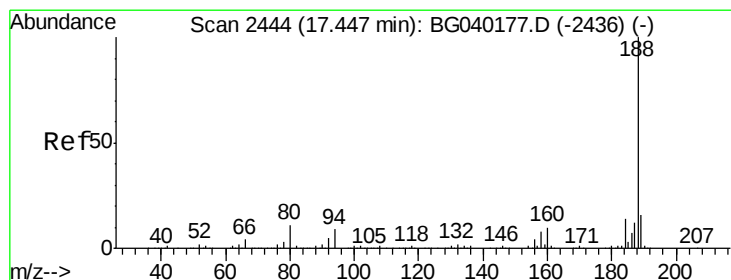
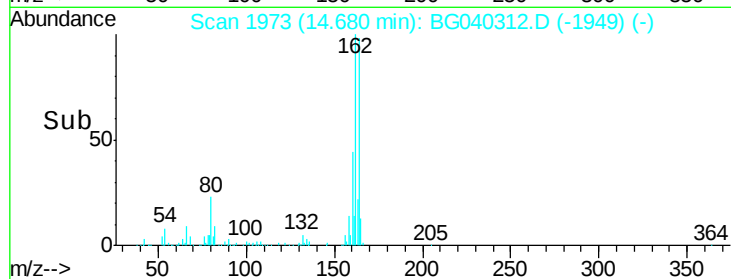
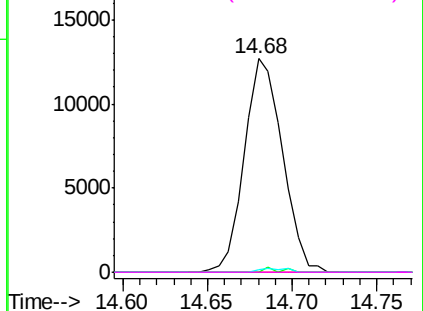


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

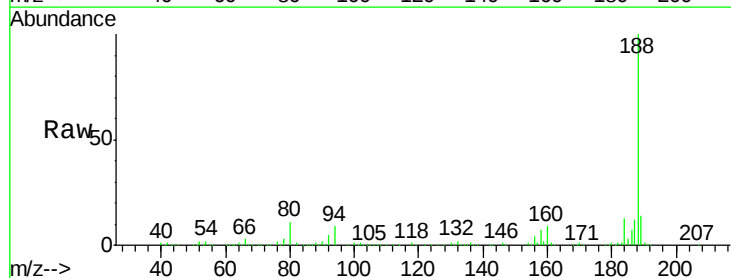
Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.43 min Scan# 2441  
 Delta R.T. -0.02 min  
 Lab File: BG040312.D  
 Acq: 3 Apr 2019 1:22

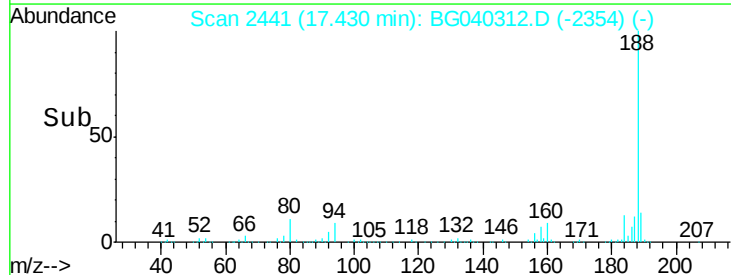
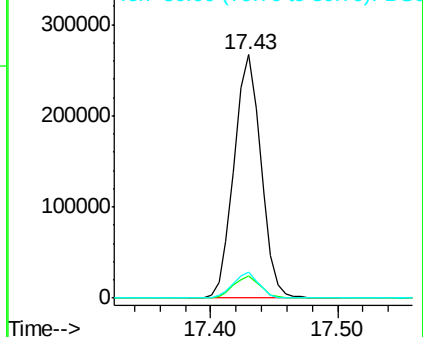
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.0   | 7.0   | 10.4  |
| 80      | 10.7  | 8.6   | 13.0  |



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

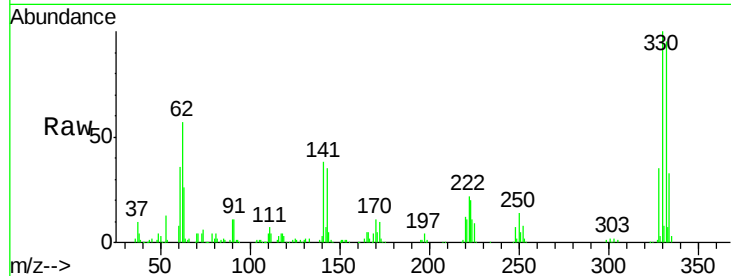




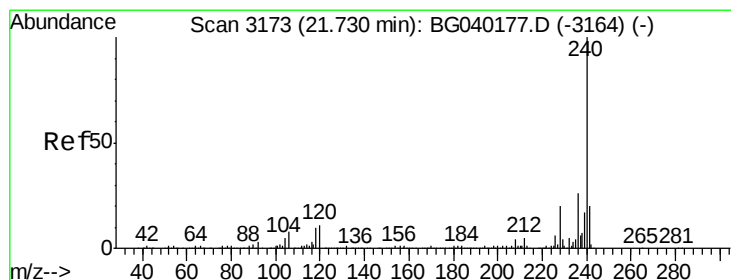
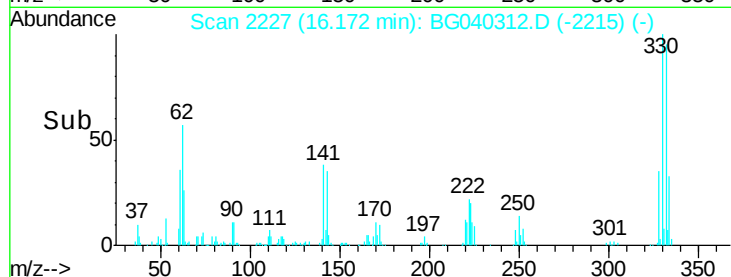
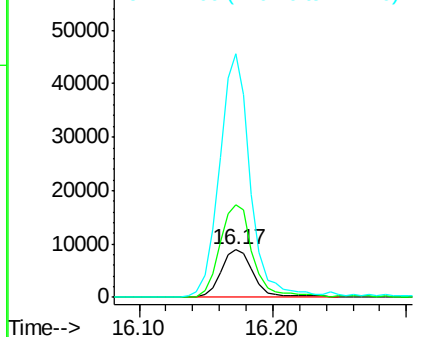
#67  
 4-Bromophenyl-phenylether  
 Concen: 3.428 ng  
 RT: 16.17 min Scan# 2227  
 Delta R.T. -0.46 min  
 Lab File: BG040312.D  
 Acq: 3 Apr 2019 1:22

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:248 Resp: 15133  
 Ion Ratio Lower Upper  
 248 100  
 250 193.0 76.4 114.6#  
 141 510.6 53.8 80.8#

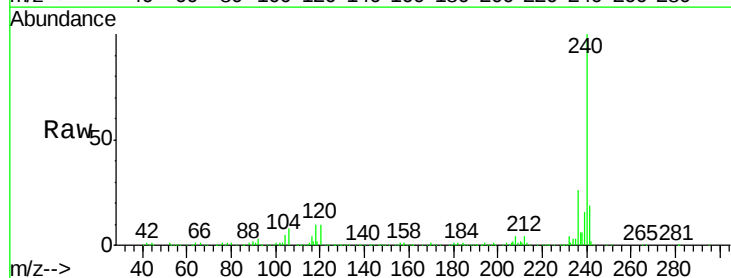


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

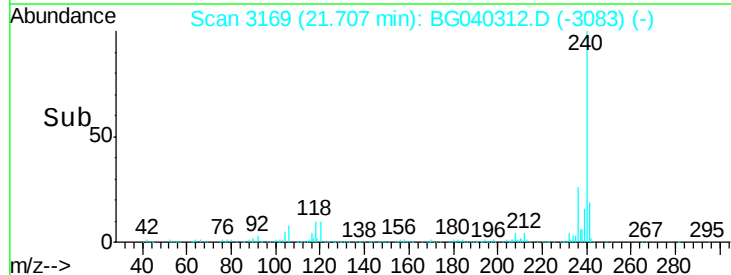
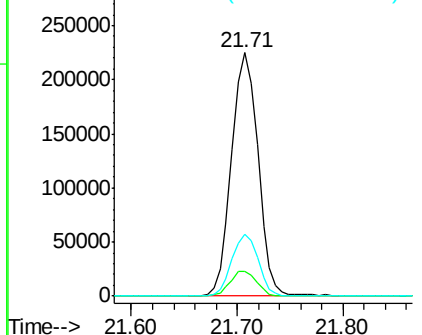


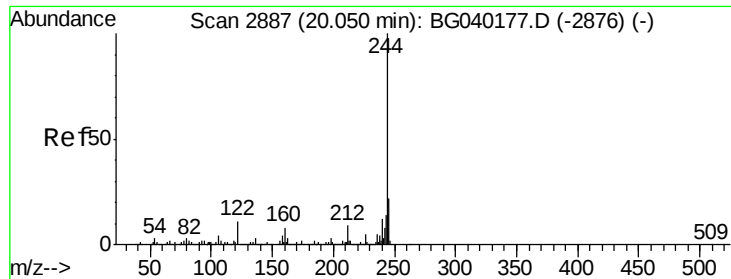
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.71 min Scan# 3169  
 Delta R.T. -0.02 min  
 Lab File: BG040312.D  
 Acq: 3 Apr 2019 1:22

Tgt Ion:240 Resp: 391432  
 Ion Ratio Lower Upper  
 240 100  
 120 10.3 8.4 12.6  
 236 25.6 20.8 31.2



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

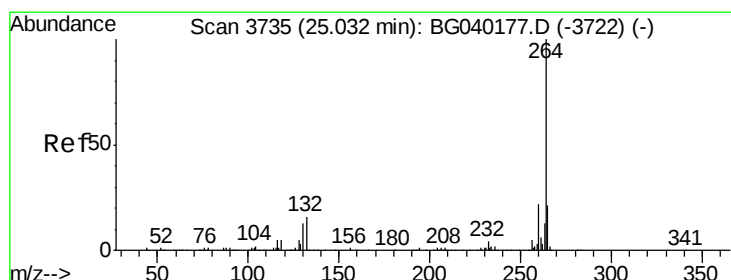
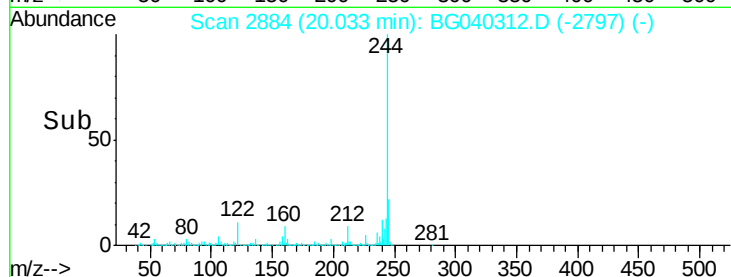
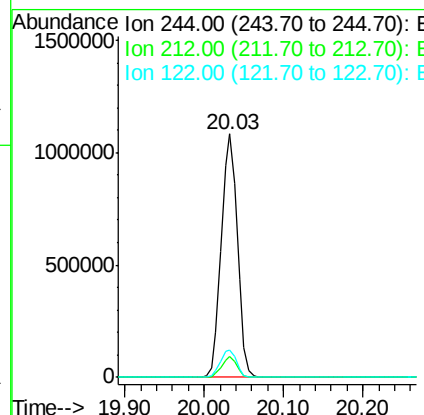
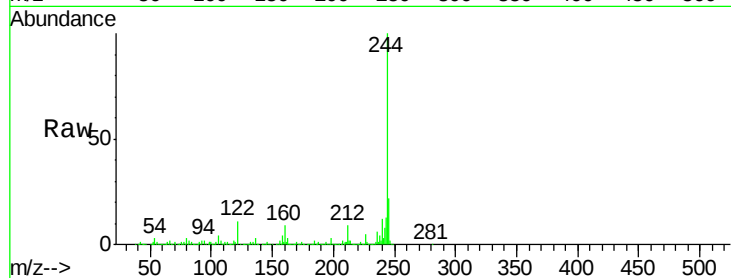




#79  
 Terphenyl-d14  
 Concen: 87.844 ng  
 RT: 20.03 min Scan# 2884  
 Delta R.T. -0.02 min  
 Lab File: BG040312.D  
 Acq: 3 Apr 2019 1:22

Instrument :  
 BNA\_G  
 ClientSampled :

Tot Ion:244 Resp: 1528458  
 Ion Ratio Lower Upper  
 244 100  
 212 8.6 7.0 10.6  
 122 11.2 8.5 12.7



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 25.01 min Scan# 3732  
 Delta R.T. -0.02 min  
 Lab File: BG040312.D  
 Acq: 3 Apr 2019 1:22

Tgt Ion:264 Resp: 386971  
 Ion Ratio Lower Upper  
 264 100  
 260 21.9 17.9 26.9  
 265 20.2 16.8 25.2

