

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG022120\  
 Data File : BG044558.D  
 Acq On : 21 Feb 2020 20:53  
 Operator : CG/JU  
 Sample : PB126945BL  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Feb 22 05:53:05 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG013020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 21 16:02:12 2020  
 Response via : Initial Calibration

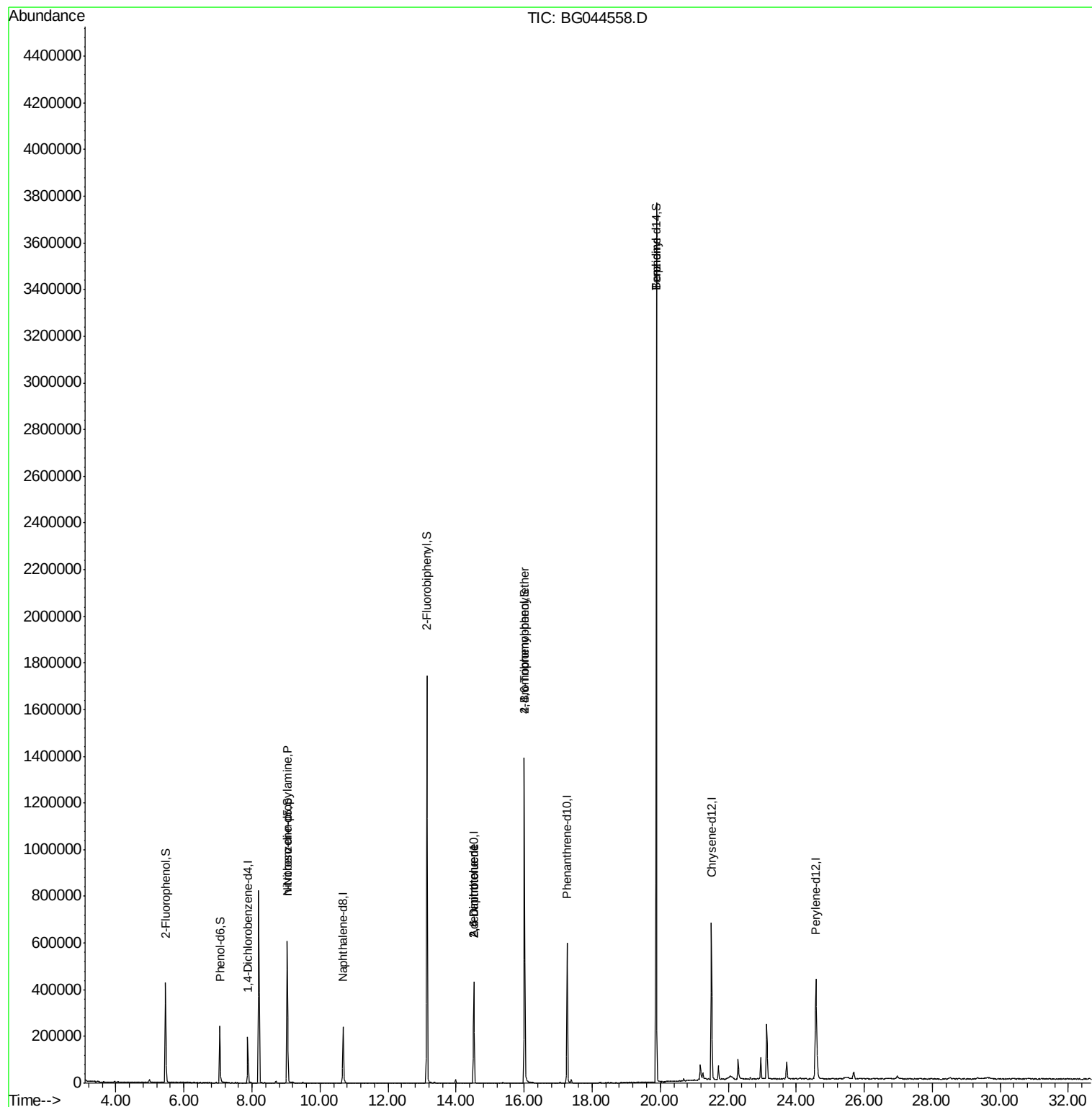
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.88  | 152  | 59643    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.68 | 136  | 238635   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.52 | 164  | 158859   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.27 | 188  | 383202   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.51 | 240  | 384093   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 24.58 | 264  | 430145   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.46  | 112  | 220088   | 65.12  | ng    | 0.00     |
| 7) Phenol-d6                   | 7.05  | 99   | 167412   | 36.89  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.03  | 82   | 408515   | 96.65  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.01 | 330  | 306292   | 164.24 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.14 | 172  | 982560   | 103.57 | ng    | 0.00     |
| 79) Terphenyl-d14              | 19.89 | 244  | 1812572  | 97.07  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.03  | 70   | 52431    | 17.336 | ng    | # 77     |
| 51) 2,6-Dinitrotoluene         | 14.52 | 165  | 21078    | 8.279  | ng    | # 31     |
| 57) 2,4-Dinitrotoluene         | 14.52 | 165  | 21078    | 5.907  | ng    | # 29     |
| 67) 4-Bromophenyl-phenylether  | 16.01 | 248  | 21002    | 5.030  | ng    | # 1      |
| 77) Benzidine                  | 19.89 | 184  | 28931    | 2.716  | ng    | # 91     |

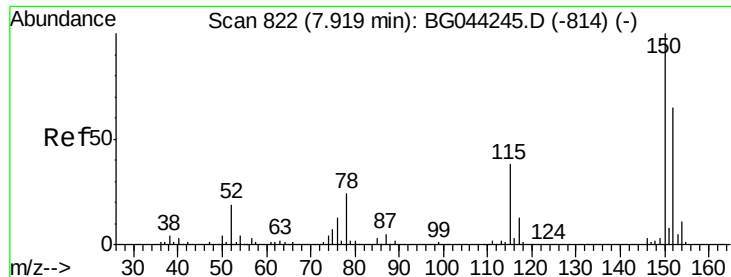
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG022120\  
Data File : BG044558.D  
Acq On : 21 Feb 2020 20:53  
Operator : CG/JU  
Sample : PB126945BL  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Feb 22 05:53:05 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG013020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Feb 21 16:02:12 2020  
Response via : Initial Calibration



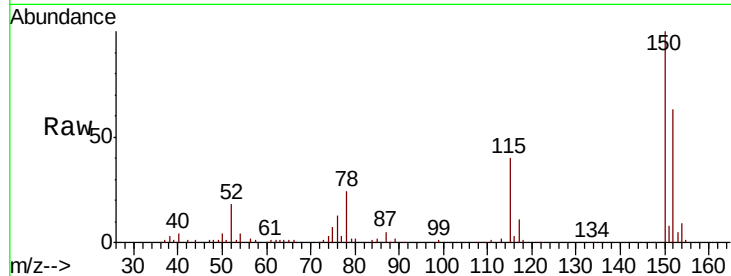


#1

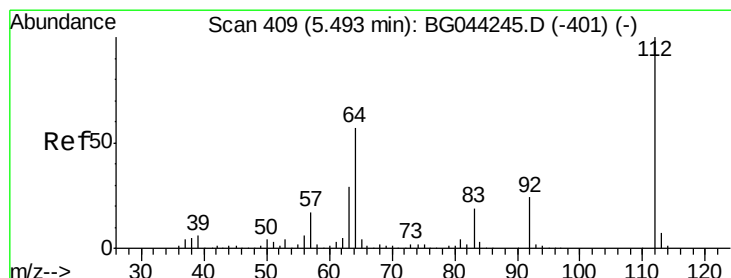
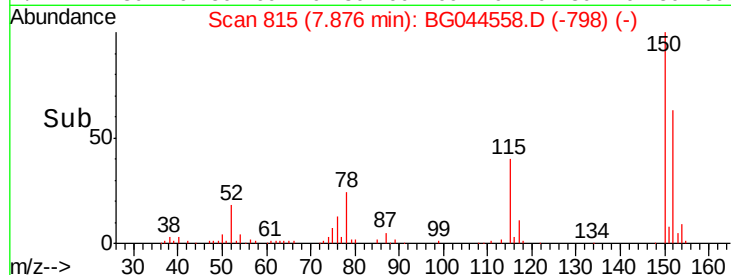
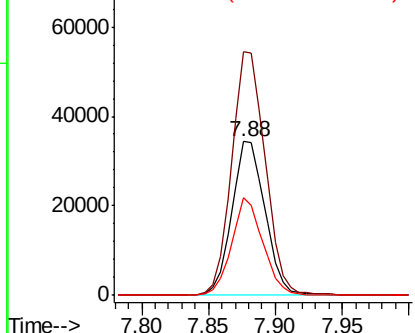
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.88 min Scan# 815  
Delta R.T. -0.00 min  
Lab File: BG044558.D  
Acq: 21 Feb 2020 20:53

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 59643  
Ion Ratio Lower Upper  
152 100  
150 158.3 123.1 184.7  
115 63.5 45.1 67.7



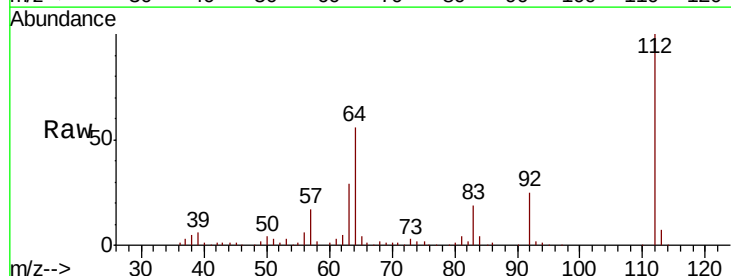
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



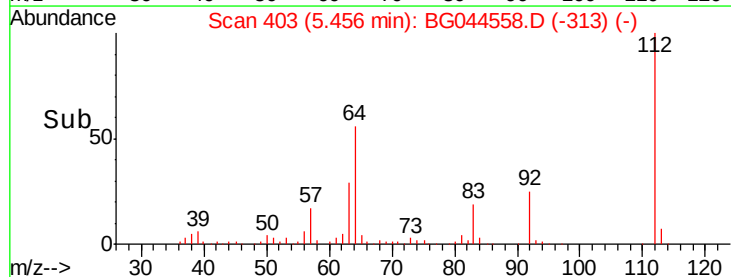
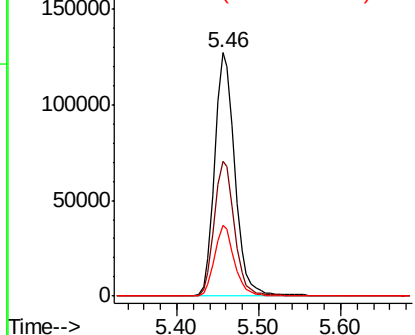
#5

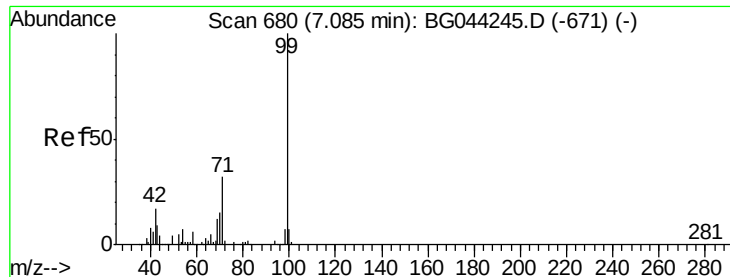
2-Fluorophenol  
Concen: 65.124 ng  
RT: 5.46 min Scan# 403  
Delta R.T. -0.00 min  
Lab File: BG044558.D  
Acq: 21 Feb 2020 20:53

Tgt Ion:112 Resp: 220088  
Ion Ratio Lower Upper  
112 100  
64 55.6 44.5 66.7  
63 28.9 22.2 33.2



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: 36.890 ng

RT: 7.05 min Scan# 675

Delta R.T. -0.00 min

Lab File: BG044558.D

Acq: 21 Feb 2020 20:53

Instrument :

BNA\_G

ClientSampleId :

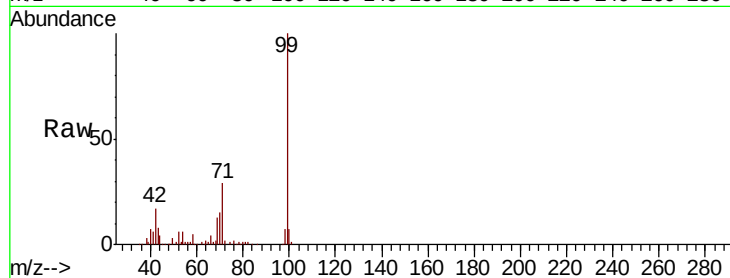
Tot Ion: 99 Resp: 167412

Ion Ratio Lower Upper

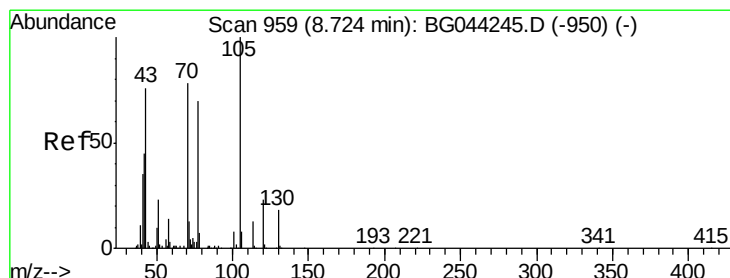
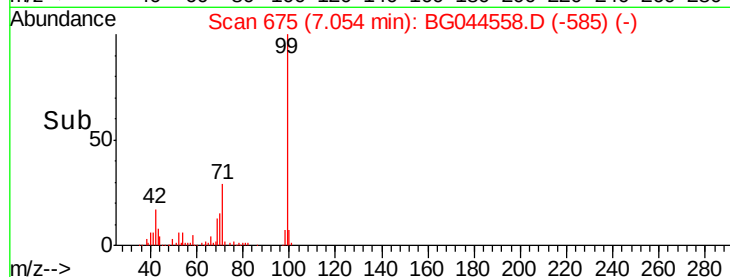
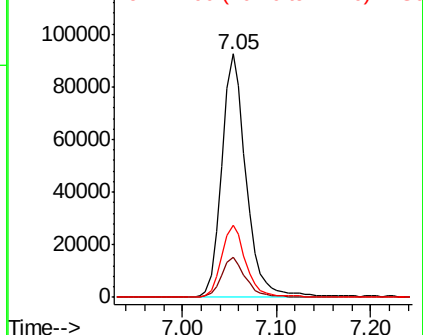
99 100

42 16.7 13.4 20.0

71 29.4 24.7 37.1



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: 17.336 ng

RT: 9.03 min Scan# 1012

Delta R.T. 0.35 min

Lab File: BG044558.D

Acq: 21 Feb 2020 20:53

Tgt Ion: 70 Resp: 52431

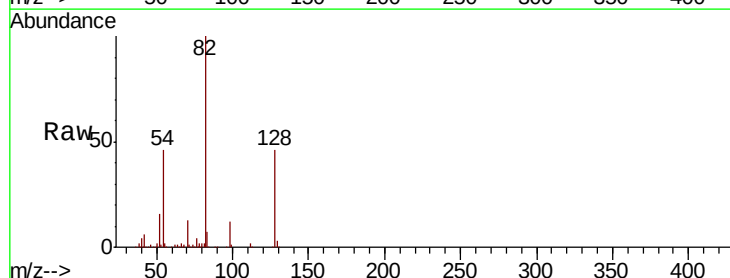
Ion Ratio Lower Upper

70 100

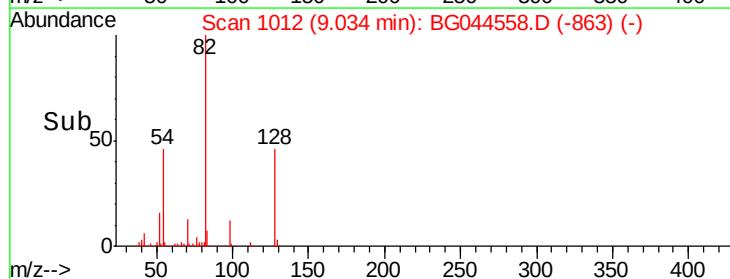
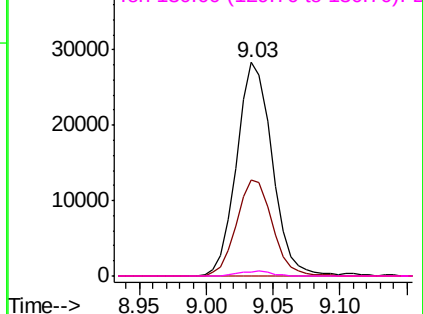
42 45.1 44.0 66.0

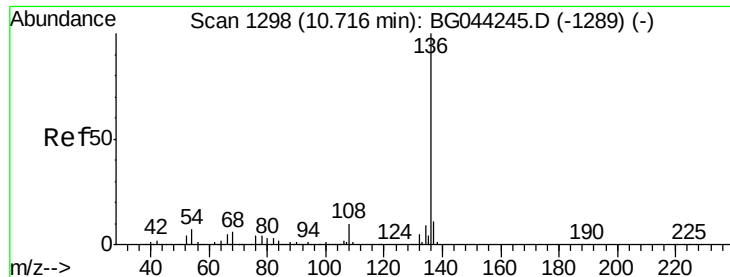
101 0.0 7.6 11.4#

130 2.1 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

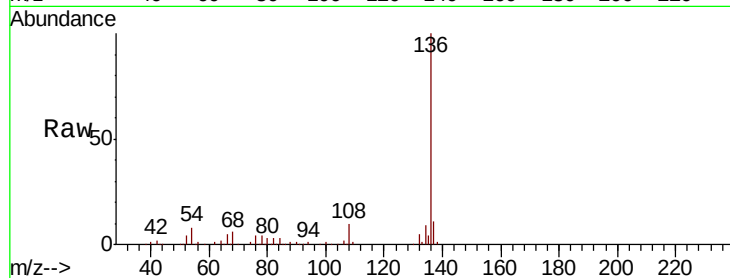




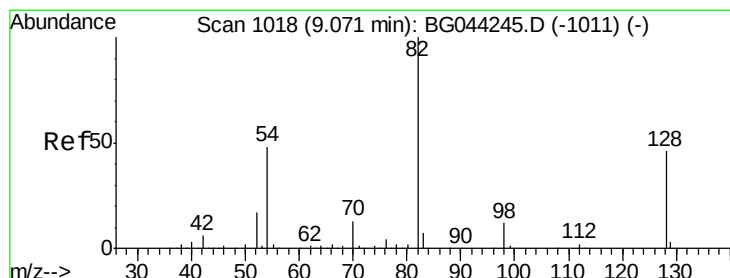
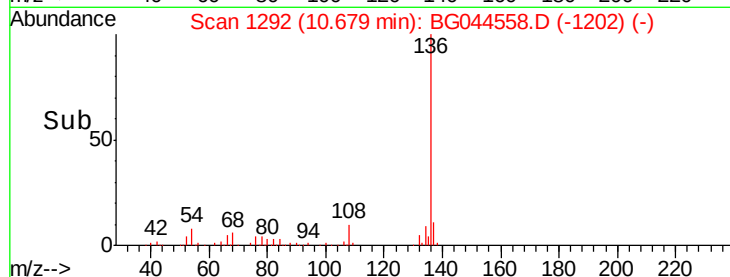
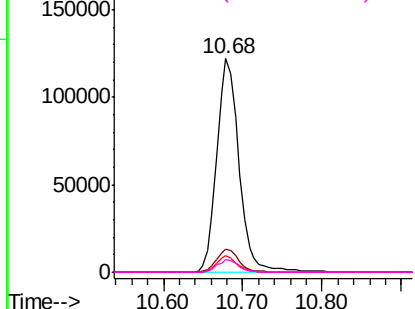
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.68 min Scan# 1292  
Delta R.T. -0.00 min  
Lab File: BG044558.D  
Acq: 21 Feb 2020 20:53

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 238635      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 10.8  | 9.0 13.6    |
| 54          | 7.8   | 5.5 8.3     |
| 68          | 5.8   | 4.6 6.8     |

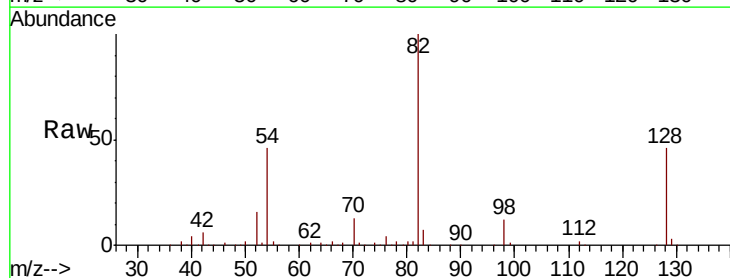


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

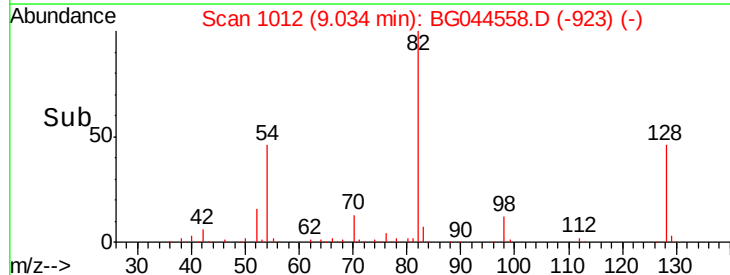
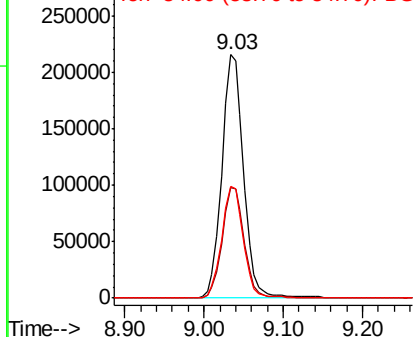


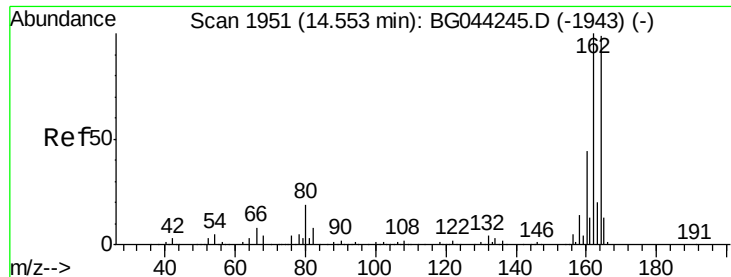
#23  
Nitrobenzene-d5  
Concen: 96.647 ng  
RT: 9.03 min Scan# 1012  
Delta R.T. -0.01 min  
Lab File: BG044558.D  
Acq: 21 Feb 2020 20:53

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 408515      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 45.6  | 39.1 58.7   |
| 54          | 46.2  | 37.9 56.9   |



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

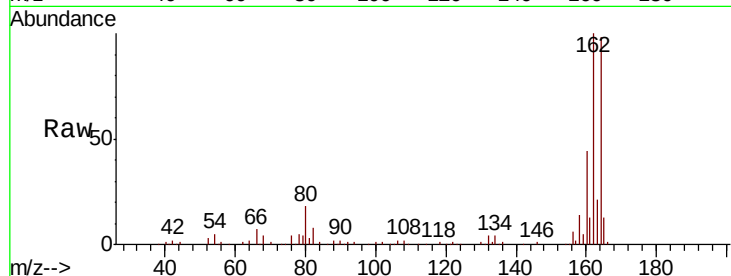




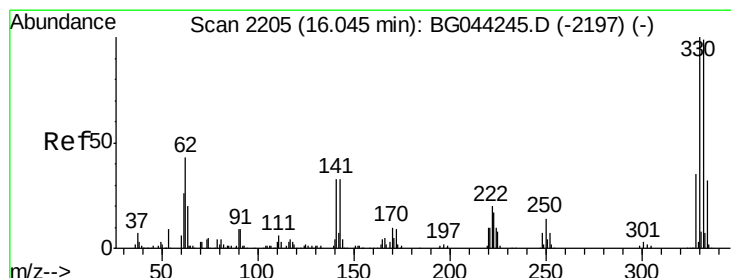
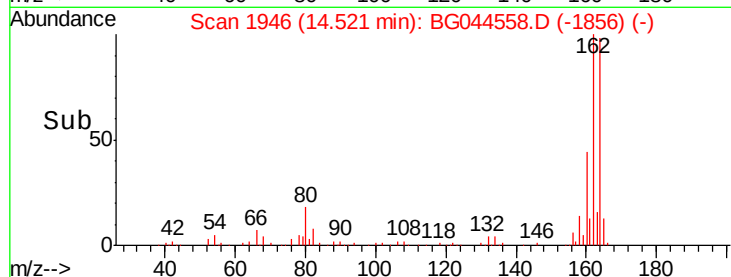
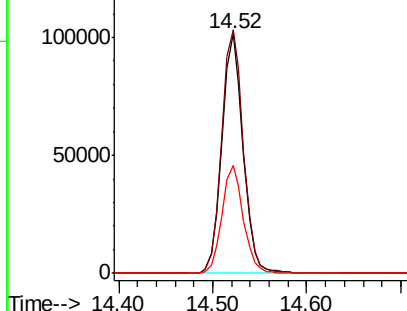
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.52 min Scan# 1946  
Delta R.T. -0.00 min  
Lab File: BG044558.D  
Acq: 21 Feb 2020 20:53

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:164 Resp: 158859  
Ion Ratio Lower Upper  
164 100  
162 101.7 81.9 122.9  
160 45.0 35.5 53.3

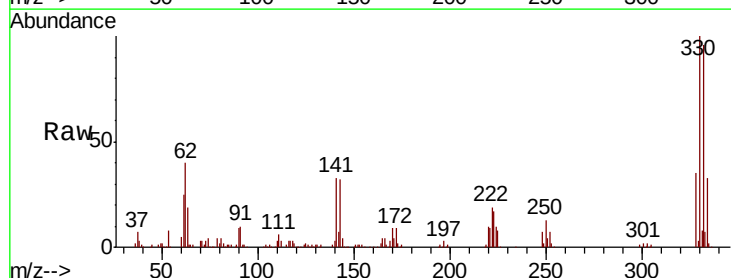


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

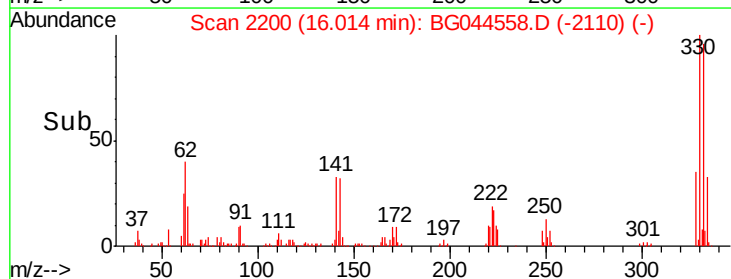
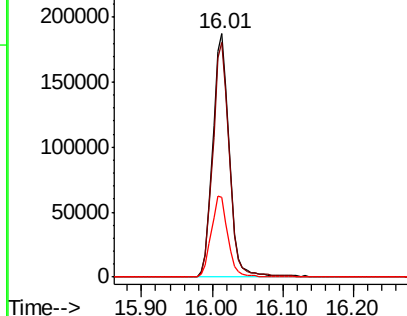


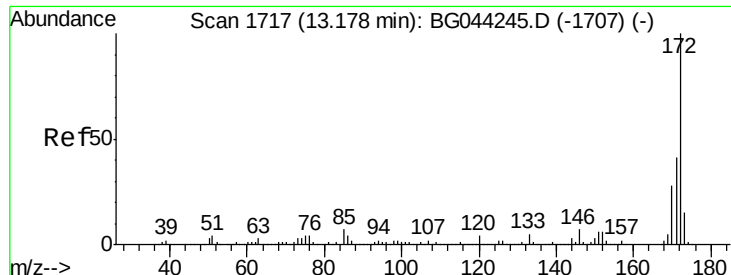
#42  
2,4,6-Tribromophenol  
Concen: 164.239 ng  
RT: 16.01 min Scan# 2200  
Delta R.T. -0.00 min  
Lab File: BG044558.D  
Acq: 21 Feb 2020 20:53

Tgt Ion:330 Resp: 306292  
Ion Ratio Lower Upper  
330 100  
332 96.1 76.6 115.0  
141 34.0 26.5 39.7



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

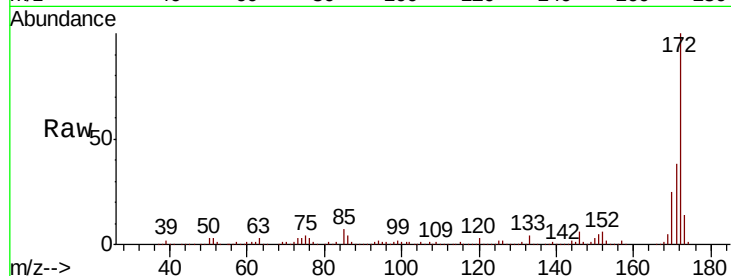




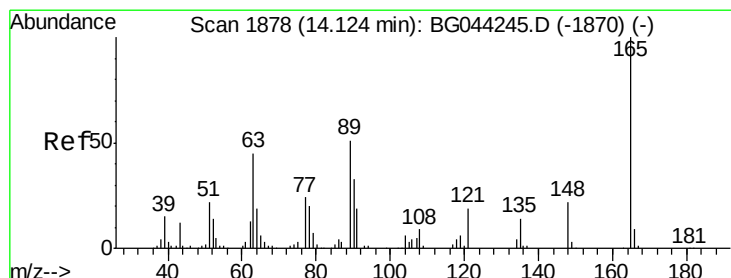
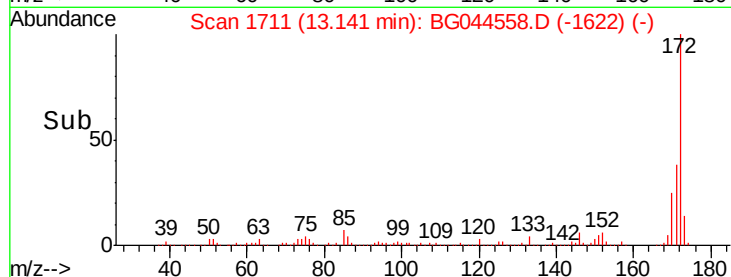
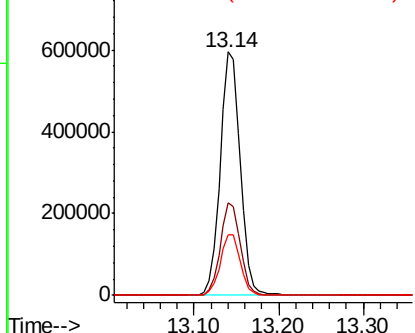
#45  
2-Fluorobiphenyl  
Concen: 103.573 ng  
RT: 13.14 min Scan# 1711  
Delta R.T. -0.01 min  
Lab File: BG044558.D  
Acq: 21 Feb 2020 20:53

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.8  | 32.3  | 48.5  |
| 170     | 25.1  | 21.6  | 32.4  |

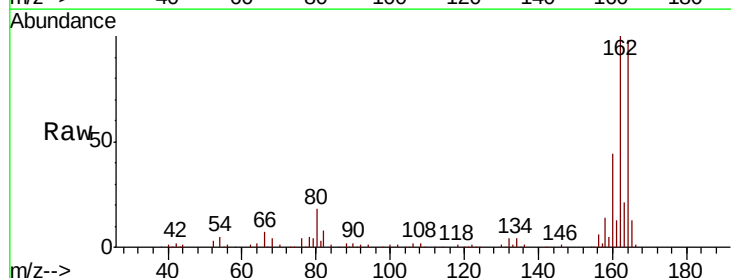


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

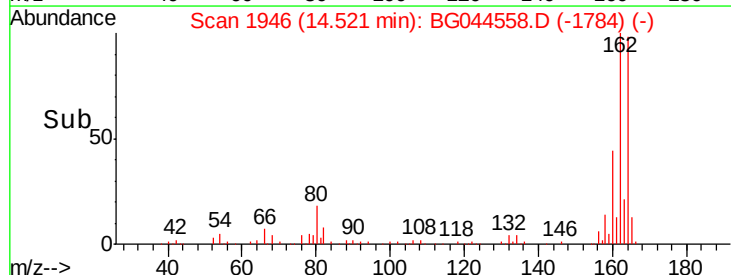
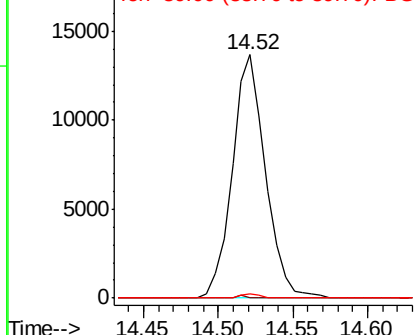


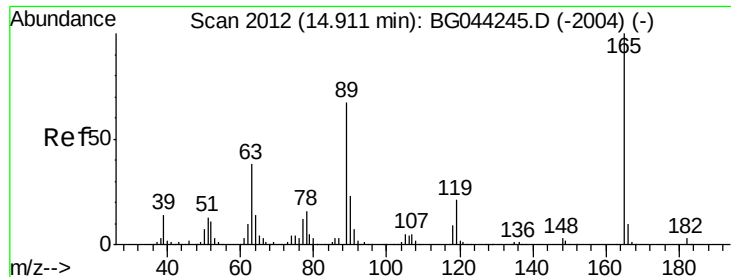
#51  
2,6-Dinitrotoluene  
Concen: 8.279 ng  
RT: 14.52 min Scan# 1946  
Delta R.T. 0.42 min  
Lab File: BG044558.D  
Acq: 21 Feb 2020 20:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 35.0  | 52.6# |
| 89      | 1.5   | 39.5  | 59.3# |



Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BG0  
Ion 89.00 (88.70 to 89.70): BG0

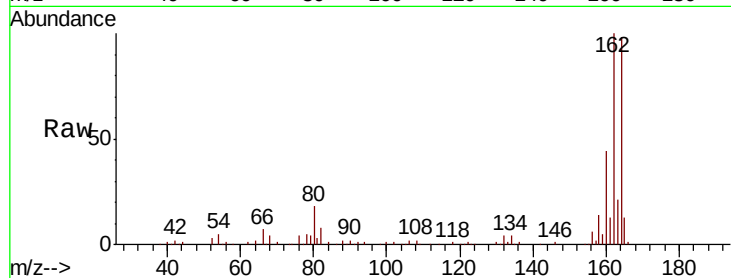




#57  
 2,4-Dinitrotoluene  
 Concen: 5.907 ng  
 RT: 14.52 min Scan# 1946  
 Delta R.T. -0.37 min  
 Lab File: BG044558.D  
 Acq: 21 Feb 2020 20:53

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 28.6  | 42.8# |
| 89      | 1.5   | 50.7  | 76.1# |
| 182     | 0.0   | 2.1   | 3.1#  |



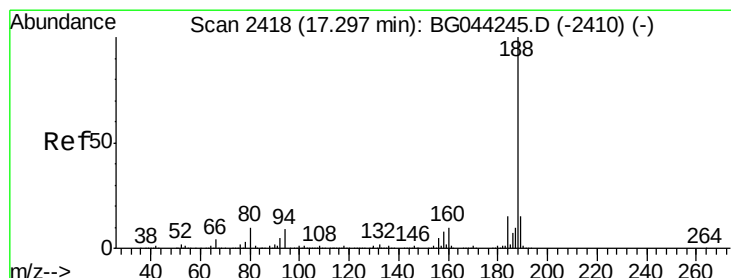
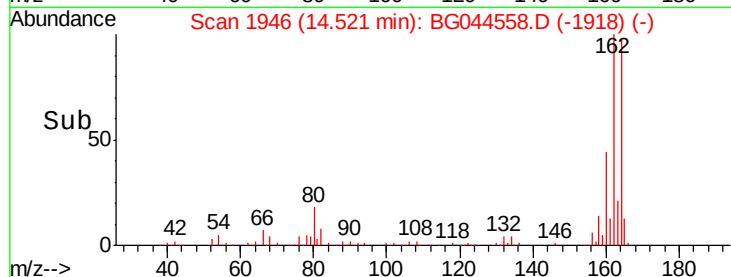
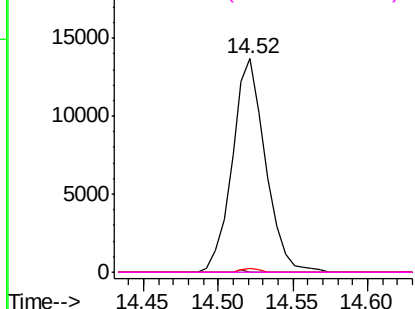
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

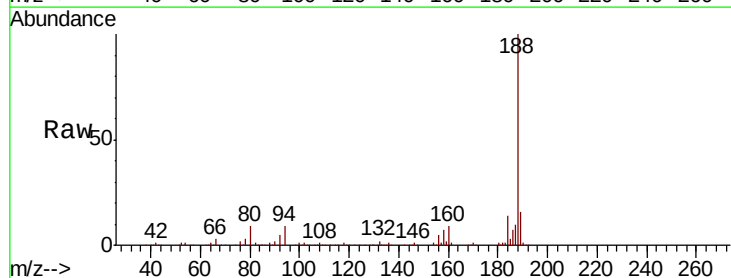
Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.27 min Scan# 2413  
 Delta R.T. -0.00 min  
 Lab File: BG044558.D  
 Acq: 21 Feb 2020 20:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.7   | 7.4   | 11.0  |
| 80      | 9.0   | 7.8   | 11.6  |

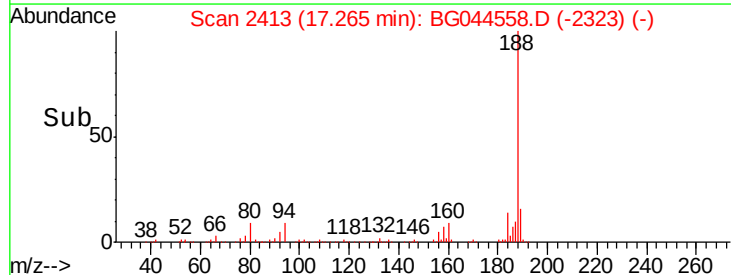
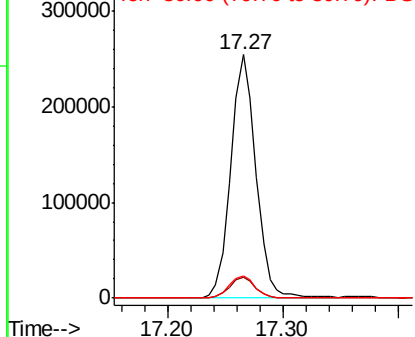


Abundance

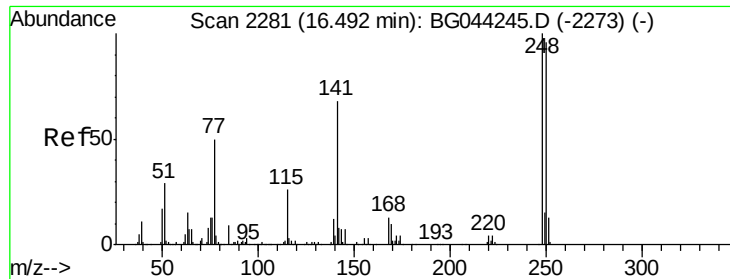
Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



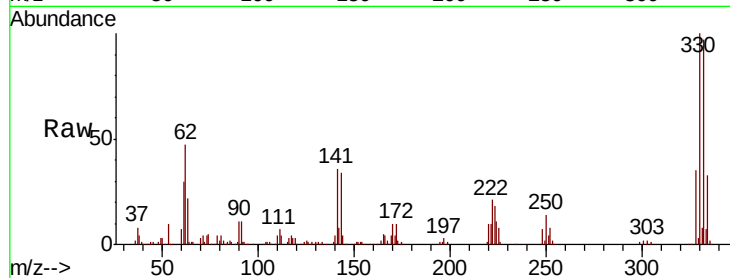




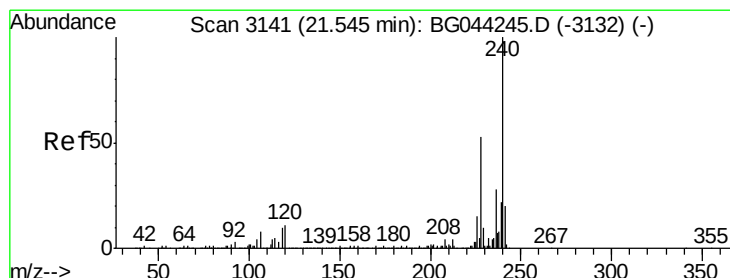
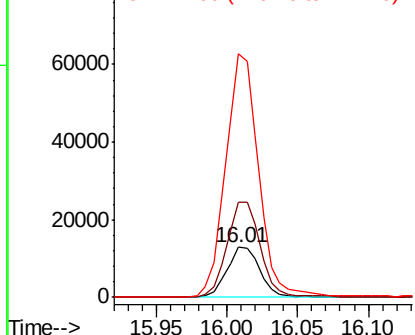
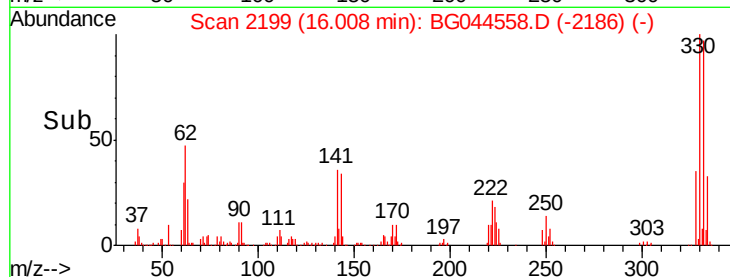
#67  
 4-Bromophenyl-phenylether  
 Concen: 5.030 ng  
 RT: 16.01 min Scan# 2199  
 Delta R.T. -0.45 min  
 Lab File: BG044558.D  
 Acq: 21 Feb 2020 20:53

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:248 Resp: 21002  
 Ion Ratio Lower Upper  
 248 100  
 250 189.6 76.8 115.2#  
 141 486.9 50.0 75.0#

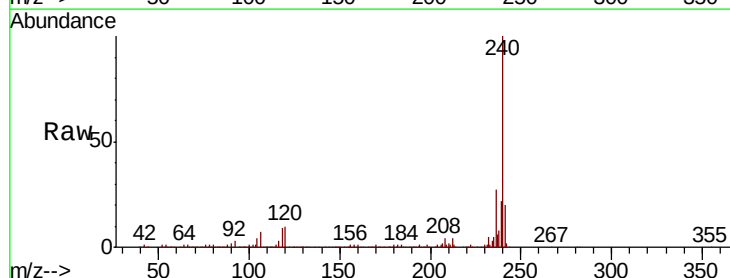


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

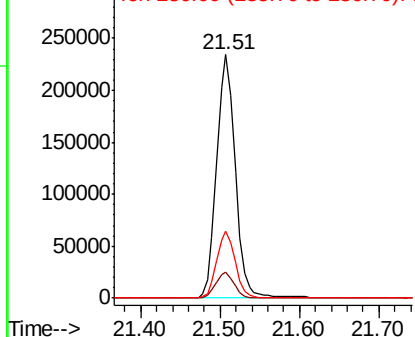
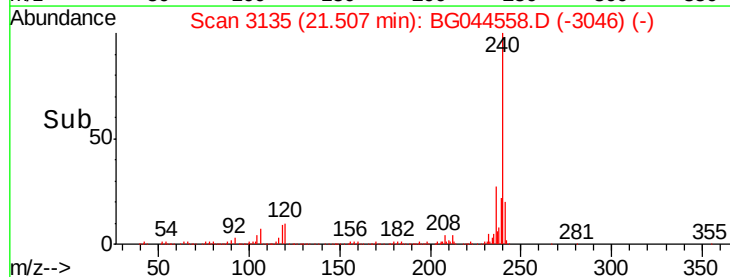


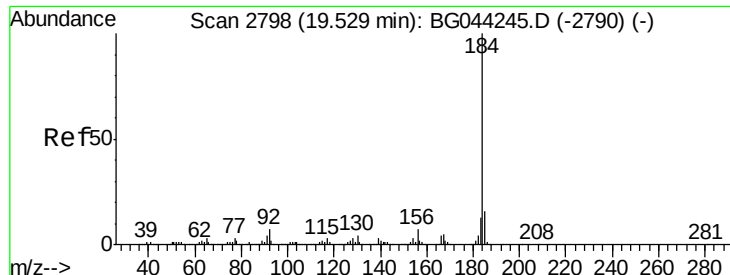
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.51 min Scan# 3135  
 Delta R.T. -0.01 min  
 Lab File: BG044558.D  
 Acq: 21 Feb 2020 20:53

Tgt Ion:240 Resp: 384093  
 Ion Ratio Lower Upper  
 240 100  
 120 10.5 8.2 12.2  
 236 27.5 22.0 33.0



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: 2.716 ng

RT: 19.89 min Scan# 2859

Delta R.T. 0.39 min

Lab File: BG044558.D

Acq: 21 Feb 2020 20:53

Instrument :

BNA\_G

ClientSampleId :

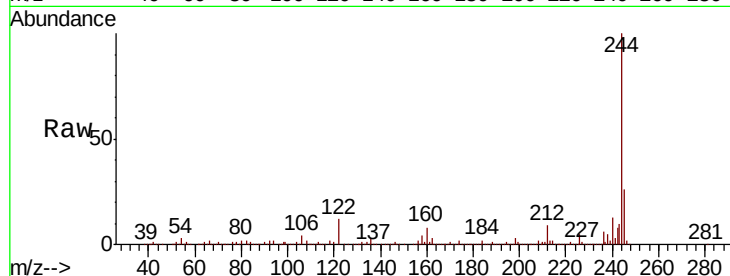
Tot Ion:184 Resp: 28931

Ion Ratio Lower Upper

184 100

185 16.6 13.0 19.4

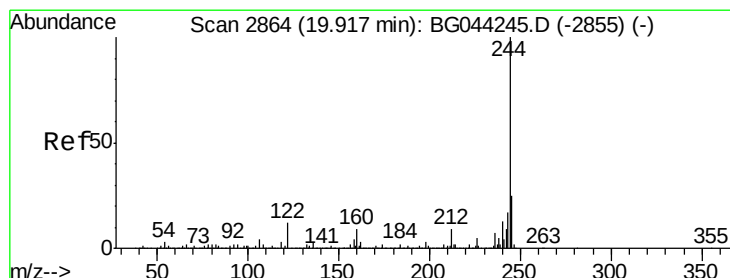
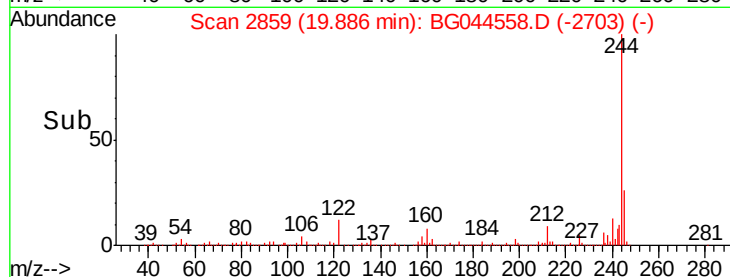
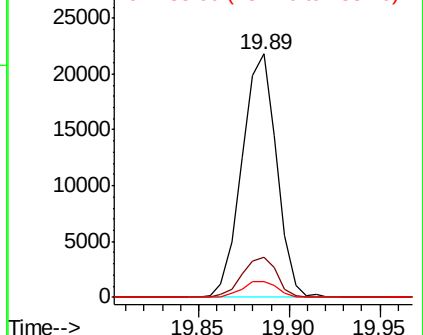
183 6.4 11.0 16.4#



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: 97.066 ng

RT: 19.89 min Scan# 2859

Delta R.T. -0.00 min

Lab File: BG044558.D

Acq: 21 Feb 2020 20:53

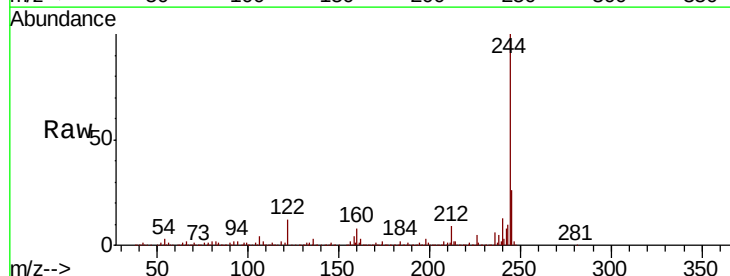
Tgt Ion:244 Resp: 1812572

Ion Ratio Lower Upper

244 100

212 9.0 7.6 11.4

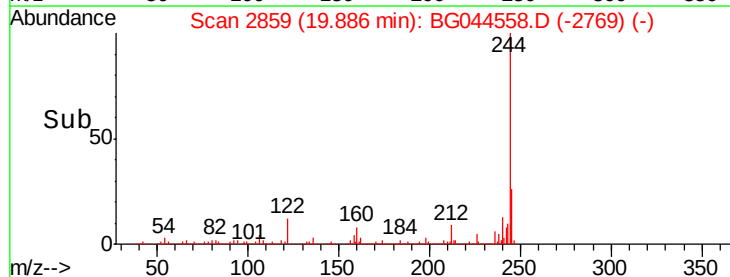
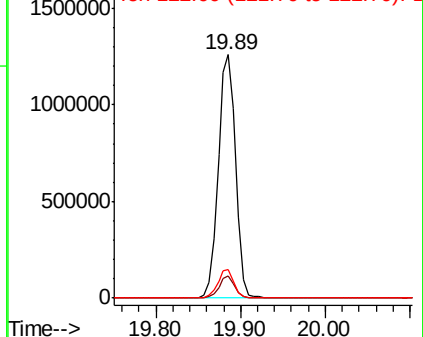
122 11.8 9.8 14.8

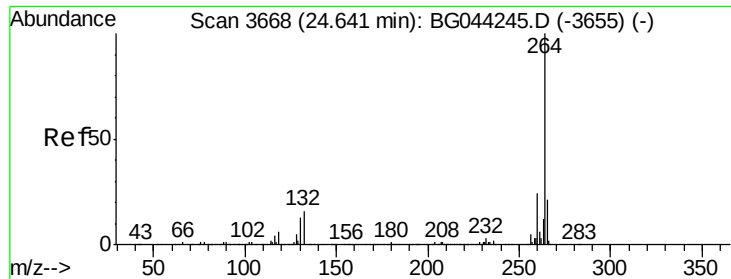


Abundance Ion 244.00 (243.70 to 244.70): E

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: 24.58 min Scan# 3658  
Delta R.T. -0.00 min  
Lab File: BG044558.D  
Acq: 21 Feb 2020 20:53

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.2  | 19.8  | 29.8  |
| 265     | 22.2  | 17.6  | 26.4  |

