

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG021120\  
 Data File : BG044389.D  
 Acq On : 11 Feb 2020 15:07  
 Operator : CG/JU  
 Sample : PB126698BL  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB126698BL

Quant Time: Feb 12 03:06:01 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

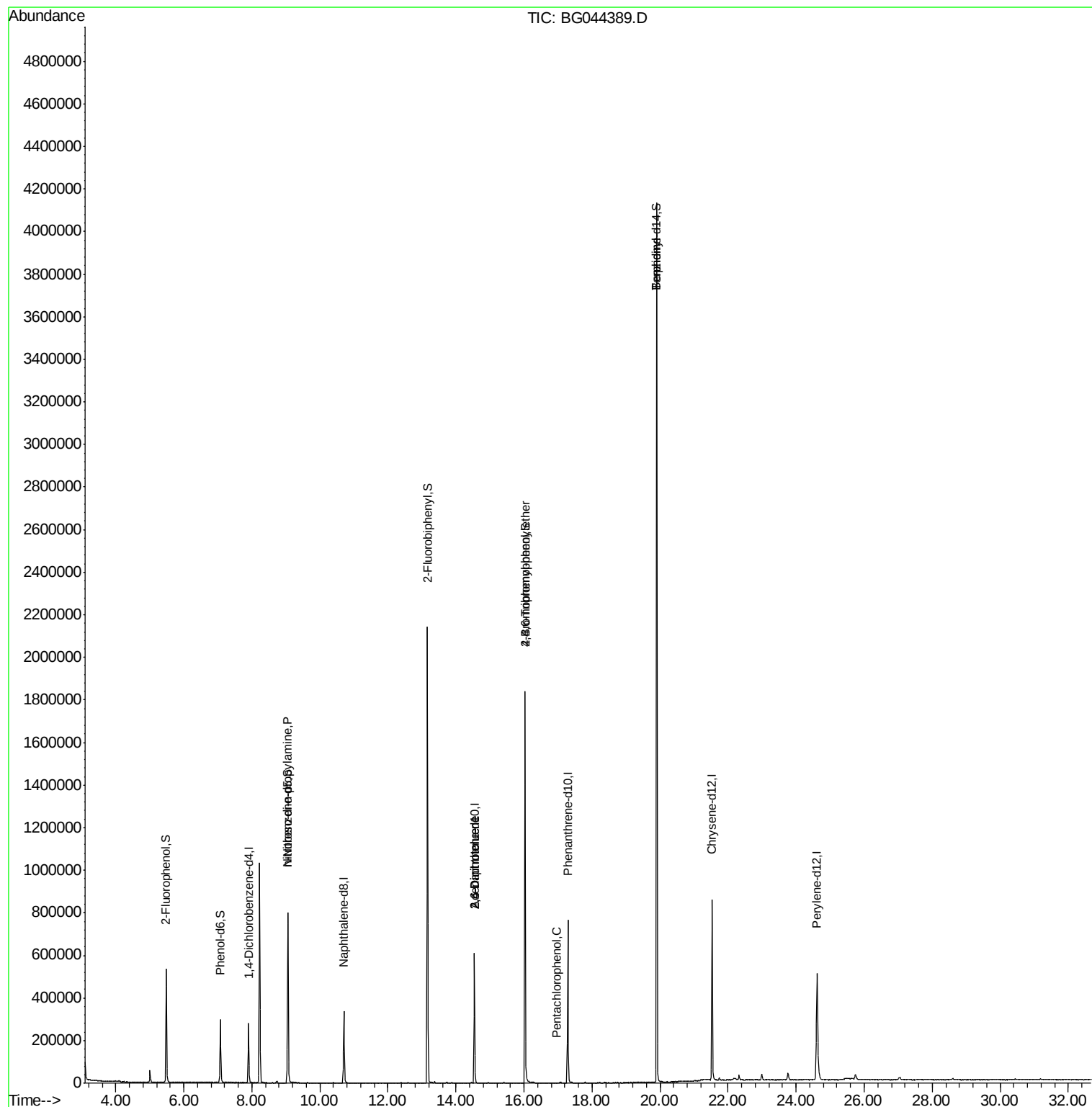
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.90  | 152  | 83946    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.71 | 136  | 326113   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.54 | 164  | 211241   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.29 | 188  | 498586   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.53 | 240  | 502708   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 24.62 | 264  | 518751   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.48  | 112  | 265040   | 55.72  | ng    | 0.00     |
| 7) Phenol-d6                   | 7.07  | 99   | 198709   | 31.11  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.06  | 82   | 520905   | 90.18  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.03 | 330  | 361808   | 145.90 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.16 | 172  | 1178685  | 93.44  | ng    | 0.00     |
| 79) Terphenyl-d14              | 19.90 | 244  | 2008052  | 82.16  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.06  | 70   | 67754    | 15.916 | ng    | # 77     |
| 51) 2,6-Dinitrotoluene         | 14.54 | 165  | 27519    | 8.128  | ng    | # 29     |
| 57) 2,4-Dinitrotoluene         | 14.54 | 165  | 27519    | 5.799  | ng    | # 27     |
| 67) 4-Bromophenyl-phenylether  | 16.03 | 248  | 24627    | 4.534  | ng    | # 1      |
| 70) Pentachlorophenol          | 16.96 | 266  | 748      | 3.376  | ng    | # 43     |
| 77) Benzidine                  | 19.90 | 184  | 33117    | 2.375  | ng    | # 91     |

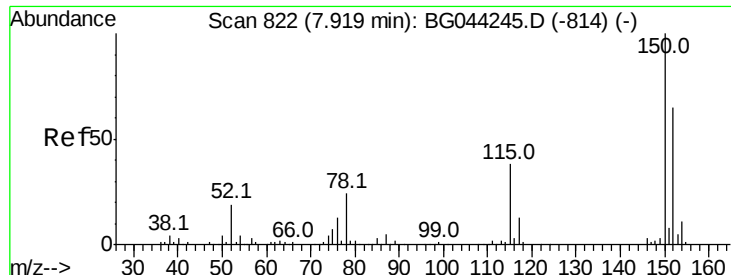
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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



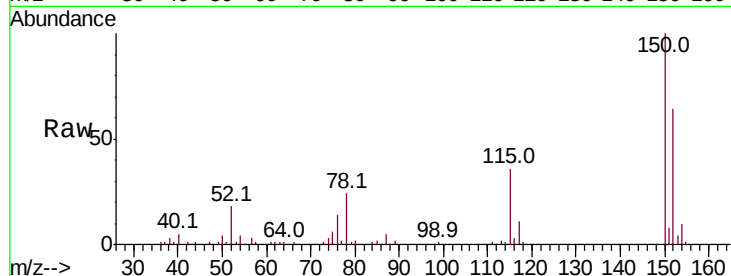


#1

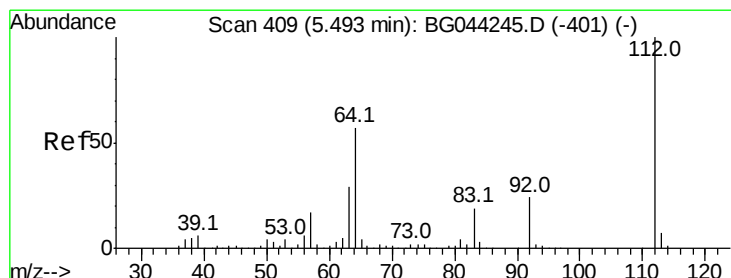
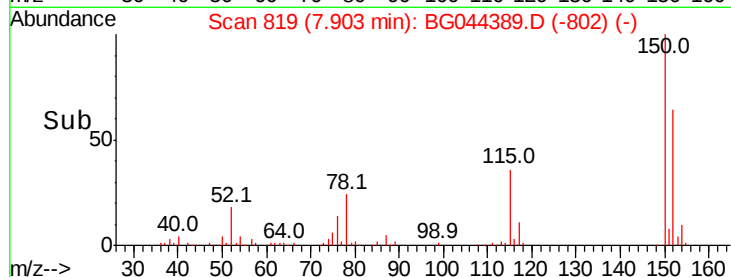
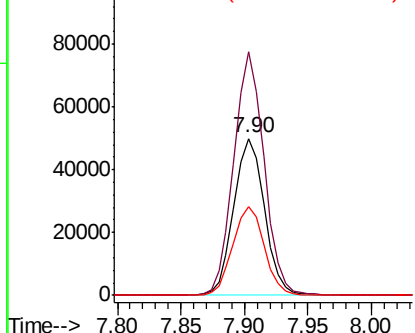
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 7.90 min Scan# 819  
 Delta R.T. -0.00 min  
 Lab File: BG044389.D  
 Acq: 11 Feb 2020 15:07

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB126698BL

Tot Ion:152 Resp: 83946  
 Ion Ratio Lower Upper  
 152 100  
 150 155.0 122.6 183.8  
 115 56.5 46.0 69.0



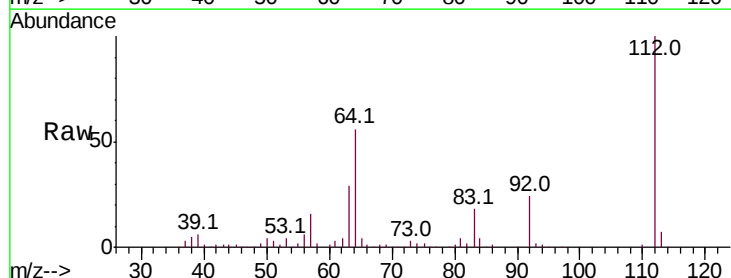
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



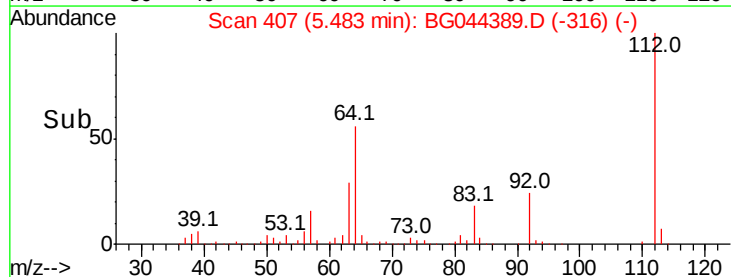
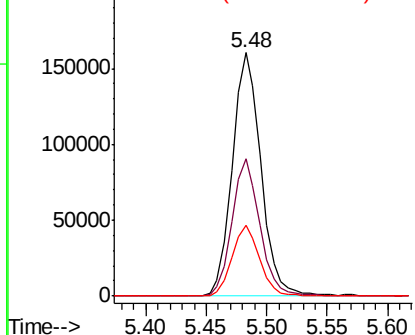
#5

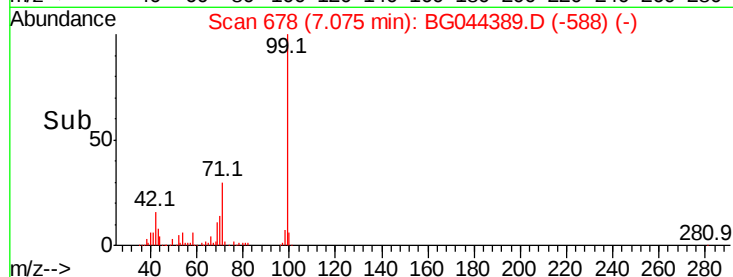
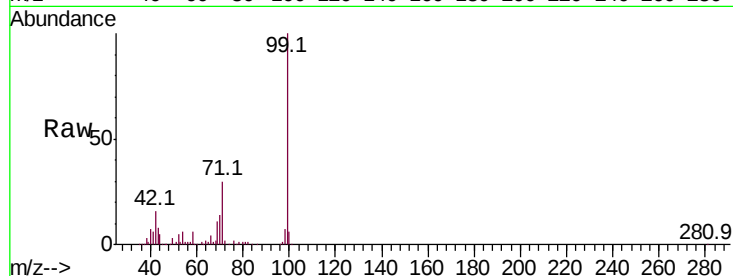
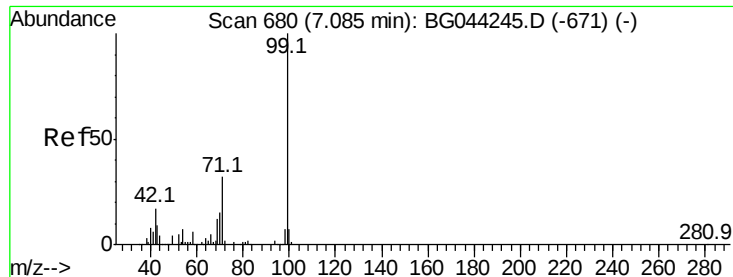
2-Fluorophenol  
 Concen: 55.721 ng  
 RT: 5.48 min Scan# 407  
 Delta R.T. 0.00 min  
 Lab File: BG044389.D  
 Acq: 11 Feb 2020 15:07

Tgt Ion:112 Resp: 265040  
 Ion Ratio Lower Upper  
 112 100  
 64 56.4 45.4 68.2  
 63 28.9 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: 31.110 ng

RT: 7.07 min Scan# 678

Delta R.T. -0.00 min

Lab File: BG044389.D

Acq: 11 Feb 2020 15:07

Instrument :

BNA\_G

ClientSampleId :

PB126698BL

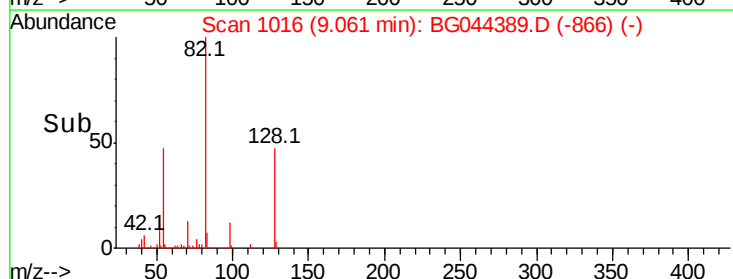
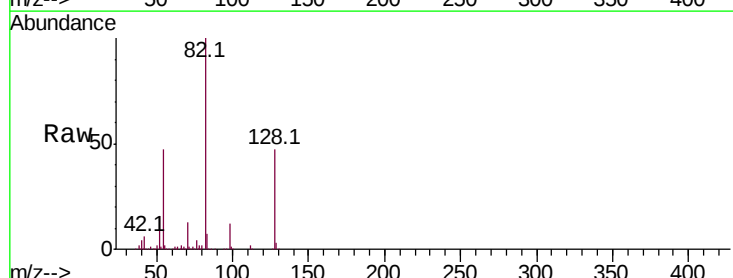
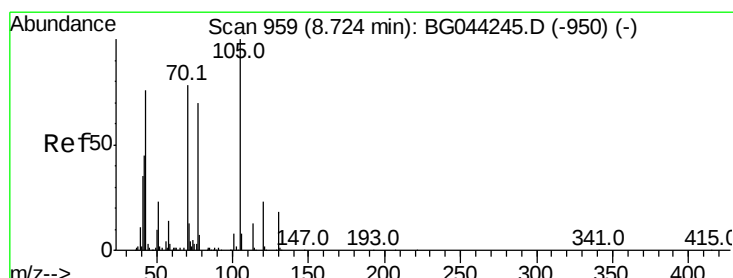
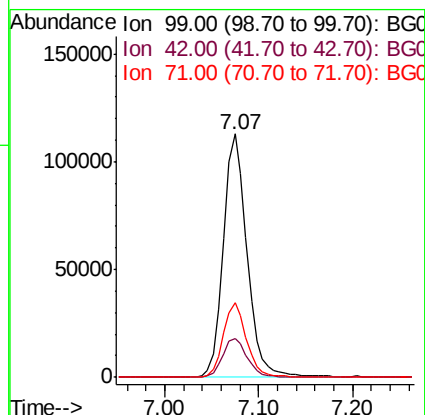
Tot Ion: 99 Resp: 198709

Ion Ratio Lower Upper

99 100

42 16.1 13.8 20.6

71 30.5 25.5 38.3



#19

n-Nitroso-di-n-propylamine

Concen: 15.916 ng

RT: 9.06 min Scan# 1016

Delta R.T. 0.35 min

Lab File: BG044389.D

Acq: 11 Feb 2020 15:07

Tgt Ion: 70 Resp: 67754

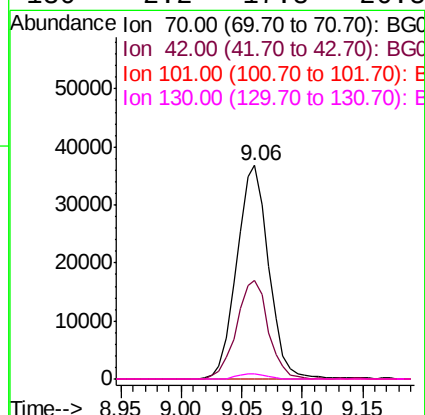
Ion Ratio Lower Upper

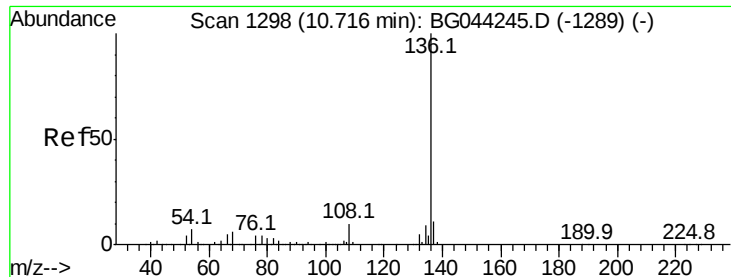
70 100

42 46.3 46.2 69.2

101 0.0 8.4 12.6#

130 2.2 17.8 26.8#

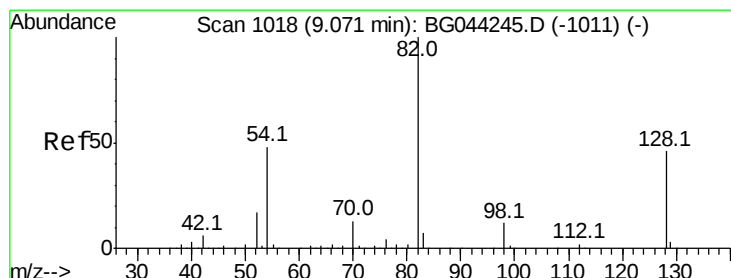
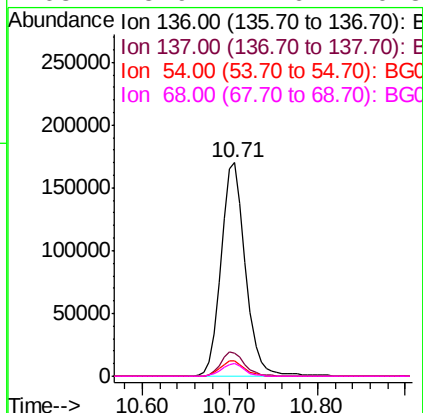
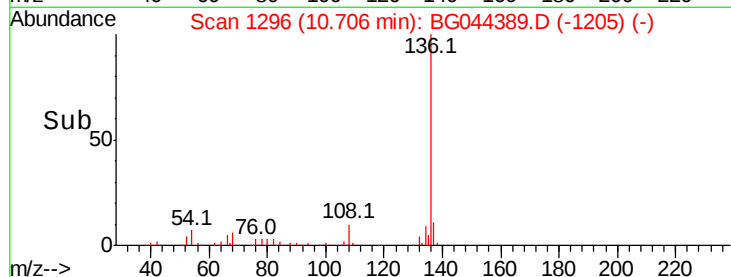
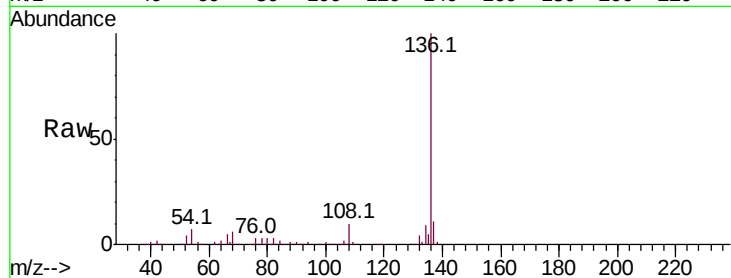




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.71 min Scan# 1296  
Delta R.T. 0.00 min  
Lab File: BG044389.D  
Acq: 11 Feb 2020 15:07

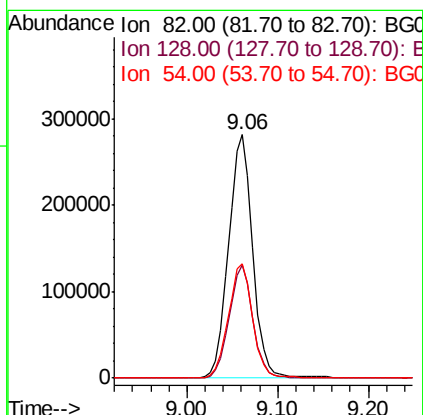
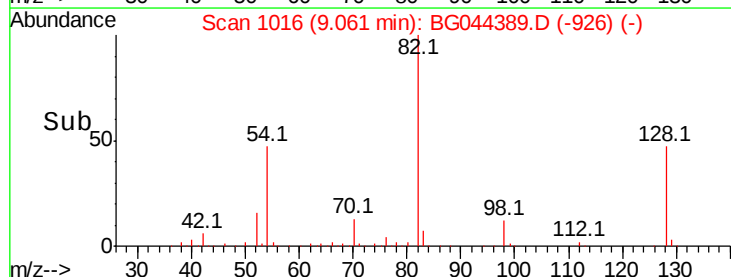
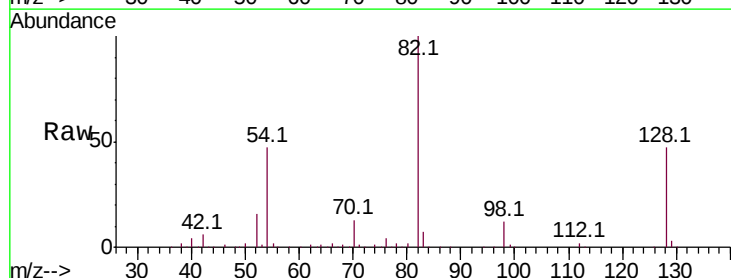
Instrument :  
BNA\_G  
ClientSampleId :  
PB126698BL

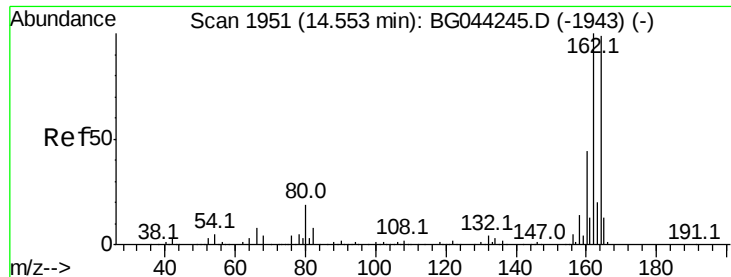
|             |       |        |
|-------------|-------|--------|
| Tot Ion:136 | Resp: | 326113 |
| Ion Ratio   | Lower | Upper  |
| 136 100     |       |        |
| 137 10.9    | 8.8   | 13.2   |
| 54 7.3      | 5.8   | 8.8    |
| 68 5.9      | 4.6   | 6.8    |



#23  
Nitrobenzene-d5  
Concen: 90.178 ng  
RT: 9.06 min Scan# 1016  
Delta R.T. -0.00 min  
Lab File: BG044389.D  
Acq: 11 Feb 2020 15:07

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 82 | Resp: | 520905 |
| Ion | Ratio   | Lower | Upper  |
| 82  | 100     |       |        |
| 128 | 46.6    | 36.5  | 54.7   |
| 54  | 47.1    | 38.6  | 58.0   |

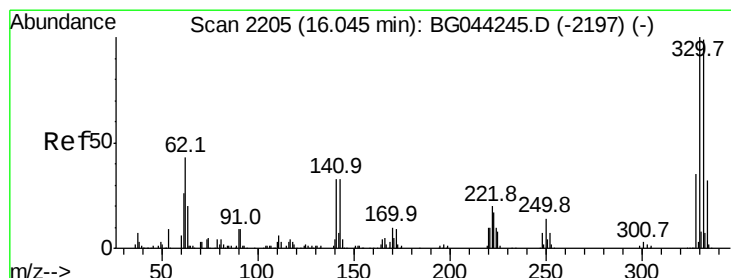
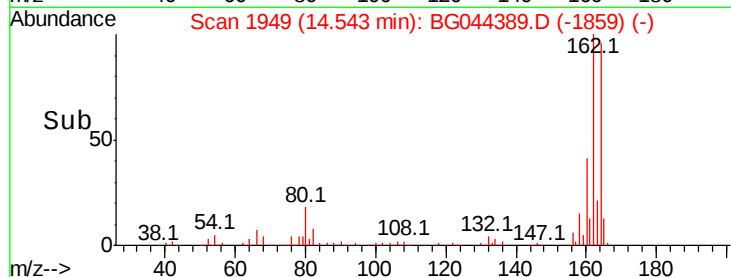
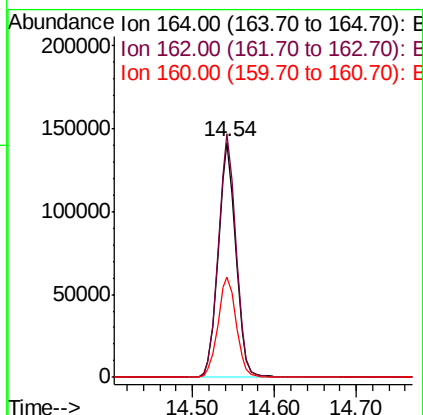
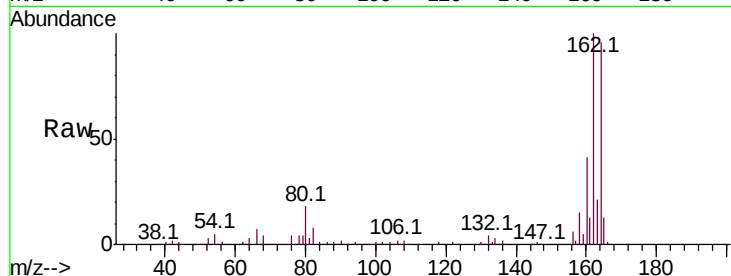




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.54 min Scan# 1949  
Delta R.T. -0.00 min  
Lab File: BG044389.D  
Acq: 11 Feb 2020 15:07

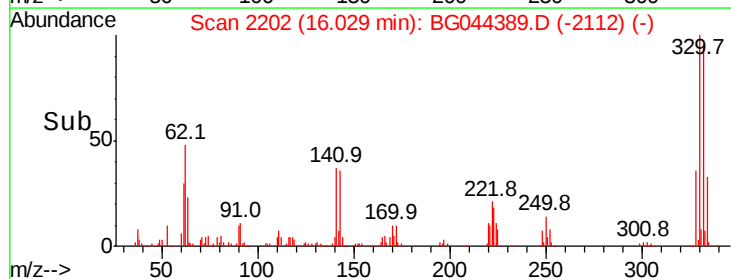
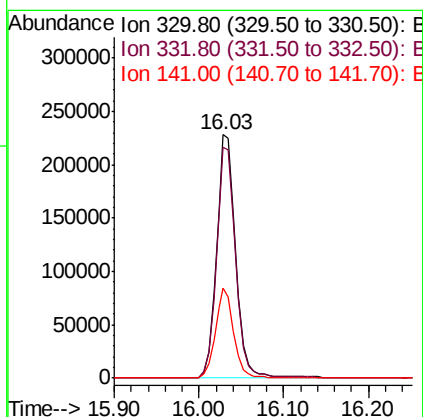
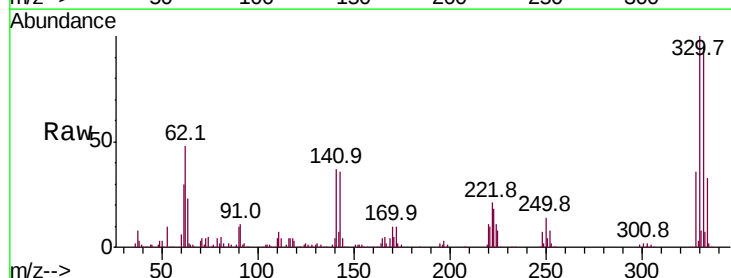
Instrument :  
BNA\_G  
ClientSampleId :  
PB126698BL

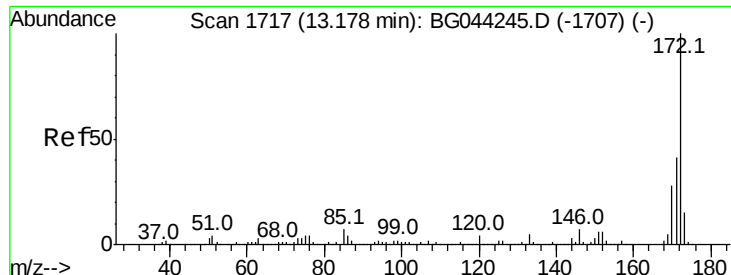
Tot Ion:164 Resp: 211241  
Ion Ratio Lower Upper  
164 100  
162 103.7 80.7 121.1  
160 42.9 35.3 52.9



#42  
2,4,6-Tribromophenol  
Concen: 145.899 ng  
RT: 16.03 min Scan# 2202  
Delta R.T. -0.00 min  
Lab File: BG044389.D  
Acq: 11 Feb 2020 15:07

Tgt Ion:330 Resp: 361808  
Ion Ratio Lower Upper  
330 100  
332 95.7 77.2 115.8  
141 35.4 28.3 42.5



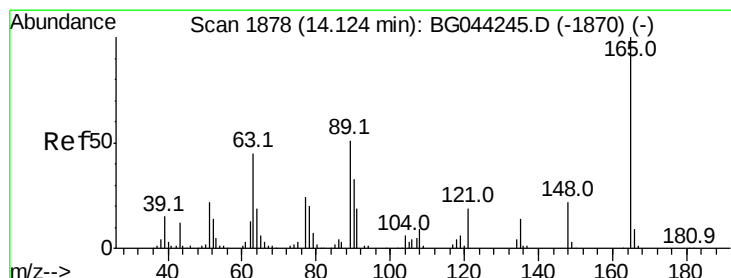
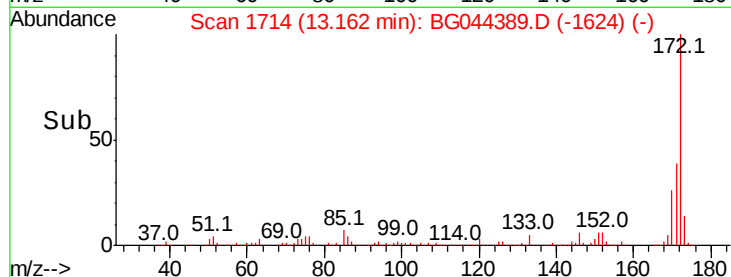
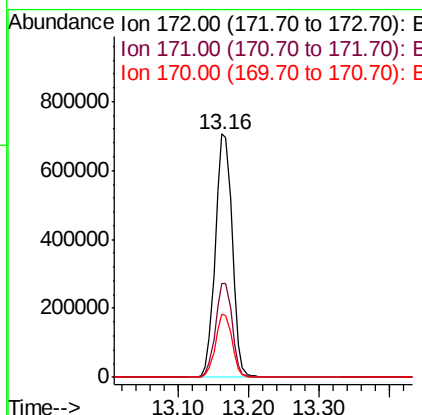
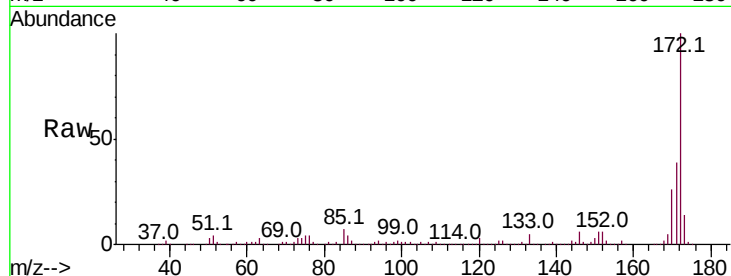


#45  
 2-Fluorobiphenyl  
 Concen: 93.437 ng  
 RT: 13.16 min Scan# 1714  
 Delta R.T. -0.00 min  
 Lab File: BG044389.D  
 Acq: 11 Feb 2020 15:07

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB126698BL

Tot Ion:172 Resp: 1178685  

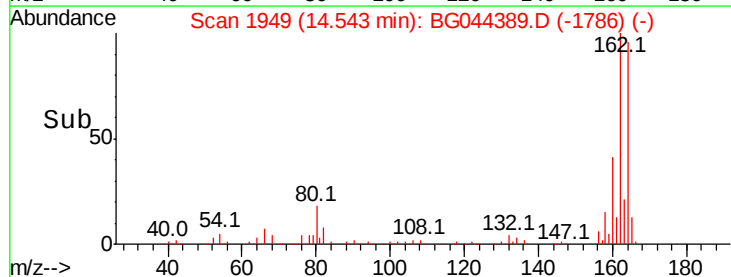
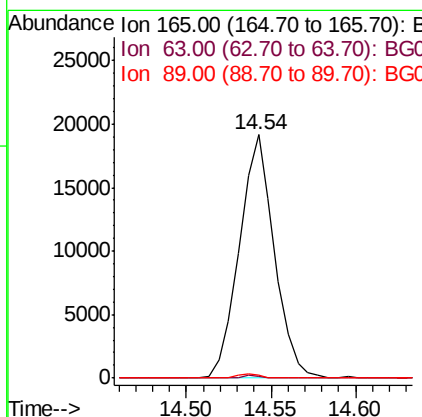
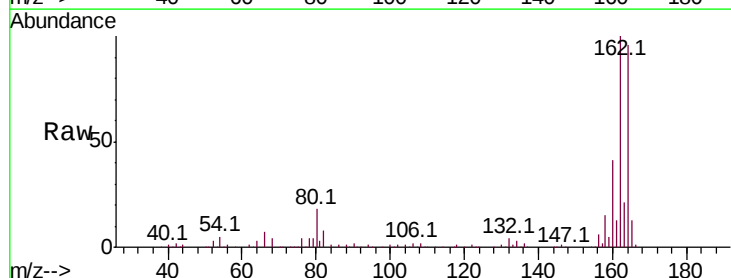
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 38.6  | 32.9  | 49.3  |
| 170 | 26.1  | 22.0  | 33.0  |

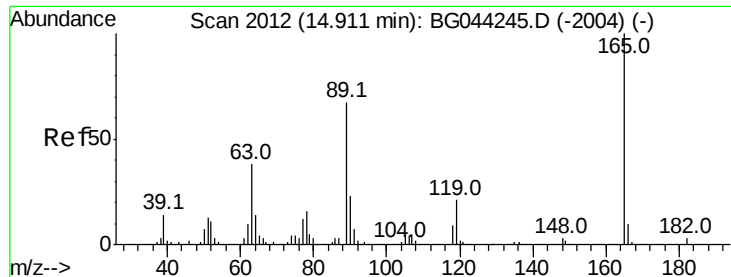


#51  
 2,6-Dinitrotoluene  
 Concen: 8.128 ng  
 RT: 14.54 min Scan# 1949  
 Delta R.T. 0.43 min  
 Lab File: BG044389.D  
 Acq: 11 Feb 2020 15:07

Tgt Ion:165 Resp: 27519  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 165 | 100   |       |       |
| 63  | 0.8   | 38.7  | 58.1# |
| 89  | 1.4   | 40.4  | 60.6# |

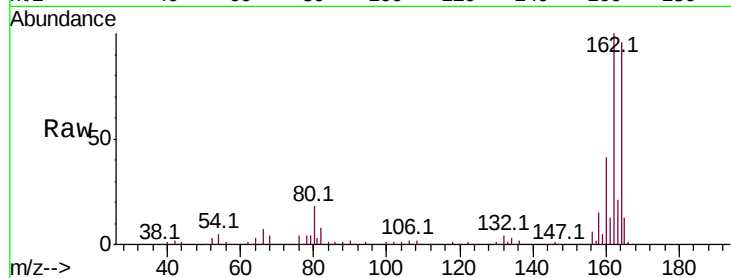




#57  
 2,4-Dinitrotoluene  
 Concen: 5.799 ng  
 RT: 14.54 min Scan# 1949  
 Delta R.T. -0.36 min  
 Lab File: BG044389.D  
 Acq: 11 Feb 2020 15:07

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB126698BL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.8   | 30.3  | 45.5# |
| 89      | 1.4   | 53.4  | 80.2# |
| 182     | 0.0   | 2.1   | 3.1#  |



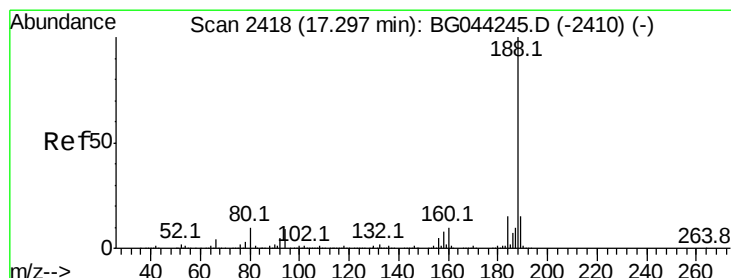
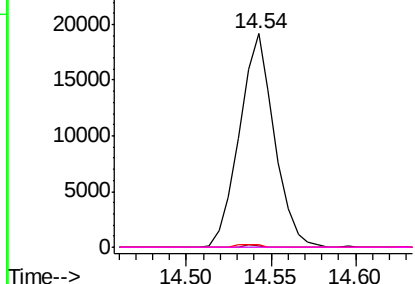
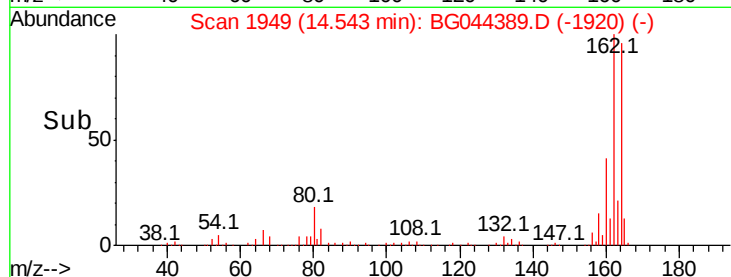
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

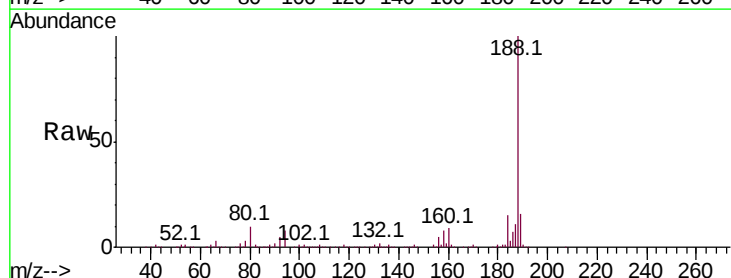
Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.29 min Scan# 2416  
 Delta R.T. -0.00 min  
 Lab File: BG044389.D  
 Acq: 11 Feb 2020 15:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.5   | 7.4   | 11.2  |
| 80      | 9.6   | 7.7   | 11.5  |

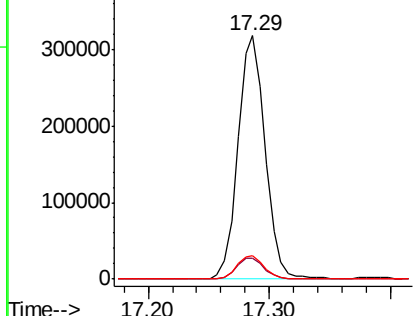
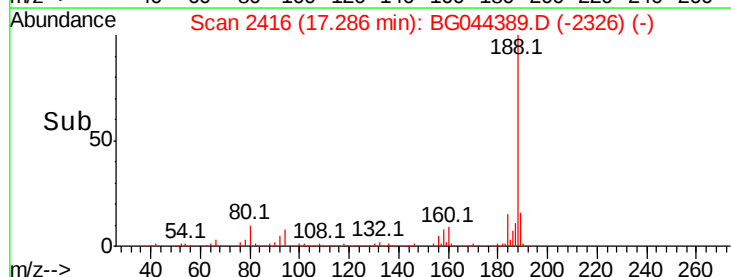


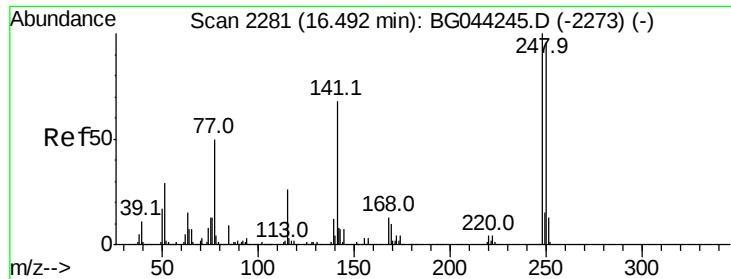
Abundance

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

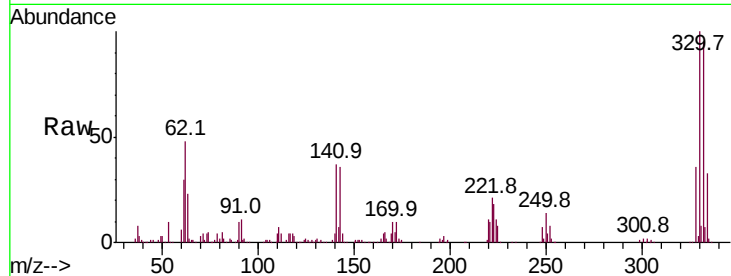




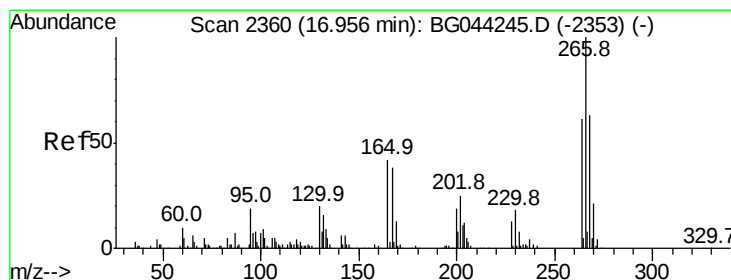
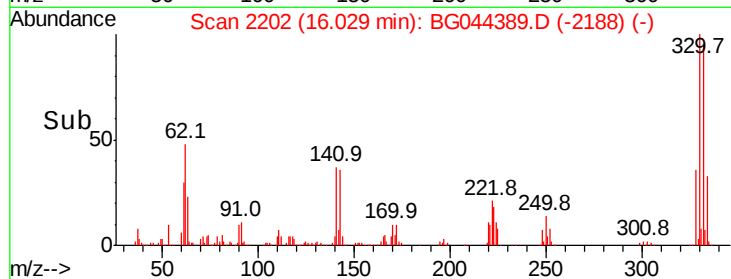
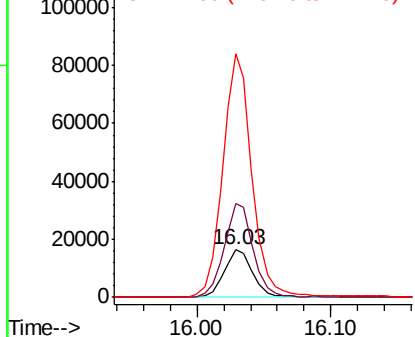
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.534 ng  
 RT: 16.03 min Scan# 2202  
 Delta R.T. -0.45 min  
 Lab File: BG044389.D  
 Acq: 11 Feb 2020 15:07

Instrument :  
 BNA\_G  
 ClientSampled :  
 PB126698BL

Tot Ion:248 Resp: 24627  
 Ion Ratio Lower Upper  
 248 100  
 250 199.3 76.6 114.8#  
 141 515.8 54.7 82.1#

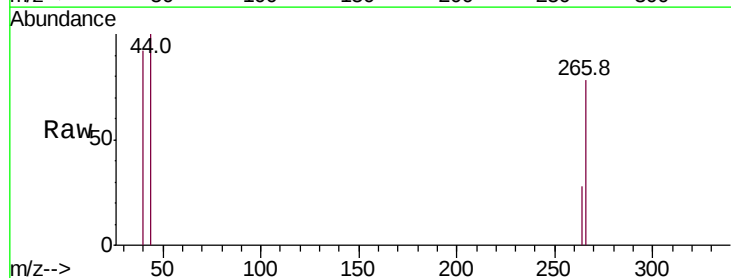


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

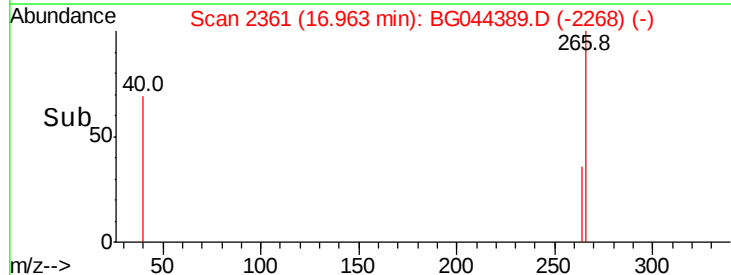
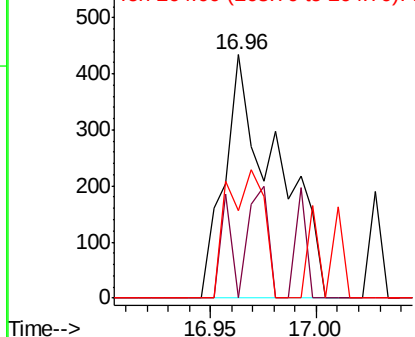


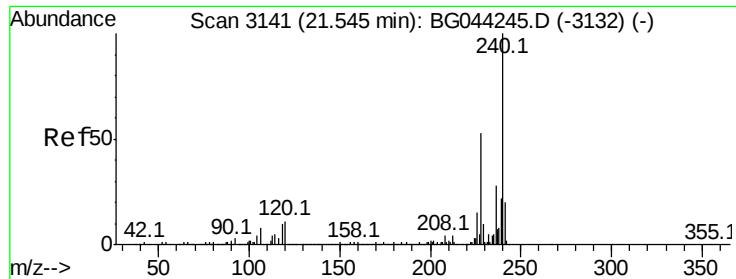
#70  
 Pentachlorophenol  
 Concen: 3.376 ng  
 RT: 16.96 min Scan# 2361  
 Delta R.T. 0.02 min  
 Lab File: BG044389.D  
 Acq: 11 Feb 2020 15:07

Tgt Ion:266 Resp: 748  
 Ion Ratio Lower Upper  
 266 100  
 268 0.0 50.6 75.8#  
 264 36.2 48.7 73.1#



Abundance Ion 265.70 (265.40 to 266.40): E  
 Ion 268.00 (267.70 to 268.70): E  
 Ion 264.00 (263.70 to 264.70): E





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.53 min Scan# 3138

Delta R.T. -0.01 min

Lab File: BG044389.D

Acq: 11 Feb 2020 15:07

Instrument :

BNA\_G

ClientSampleId :

PB126698BL

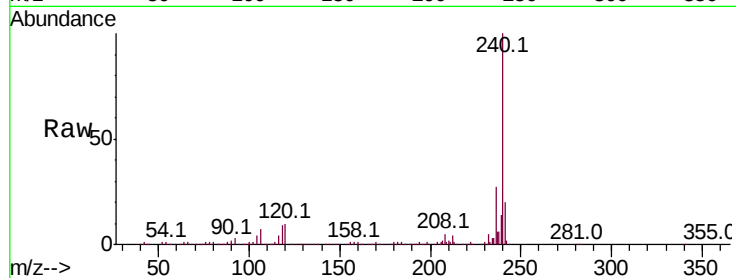
Tot Ion:240 Resp: 502708

Ion Ratio Lower Upper

240 100

120 10.2 8.4 12.6

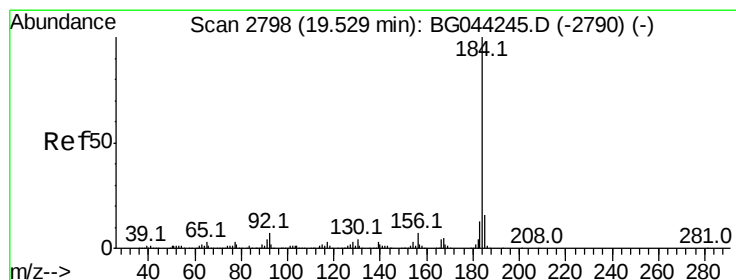
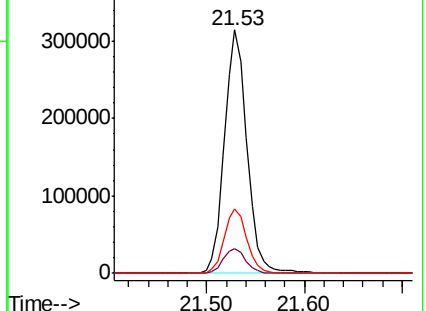
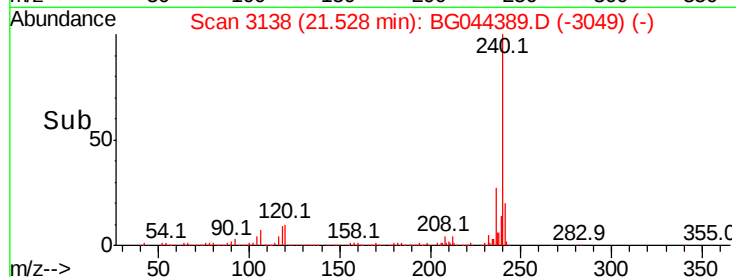
236 26.6 22.1 33.1



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: 2.375 ng

RT: 19.90 min Scan# 2861

Delta R.T. 0.38 min

Lab File: BG044389.D

Acq: 11 Feb 2020 15:07

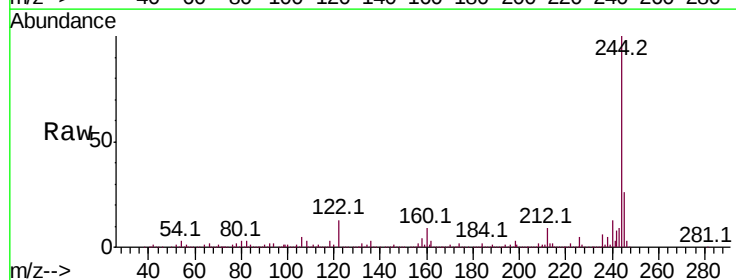
Tgt Ion:184 Resp: 33117

Ion Ratio Lower Upper

184 100

185 15.2 12.9 19.3

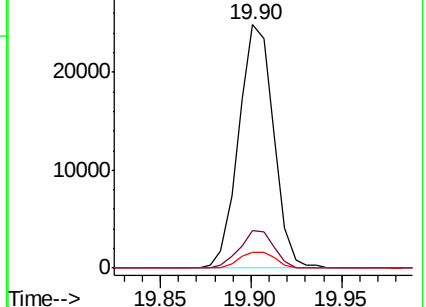
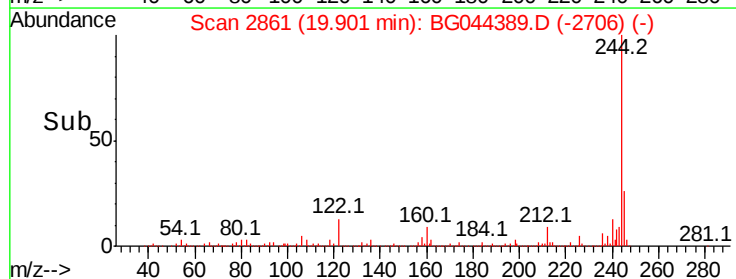
183 6.7 10.8 16.2#

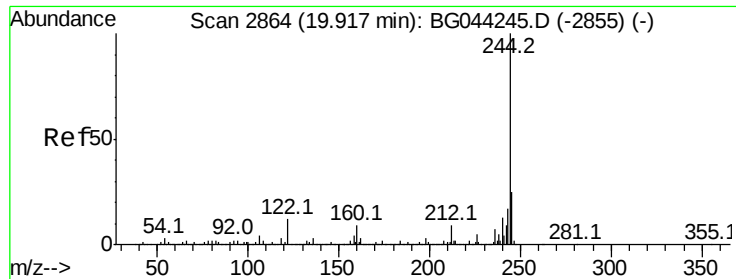


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

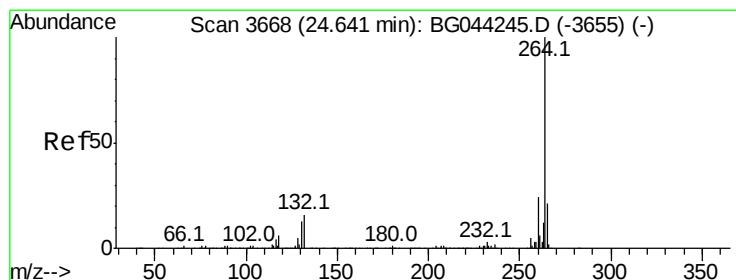
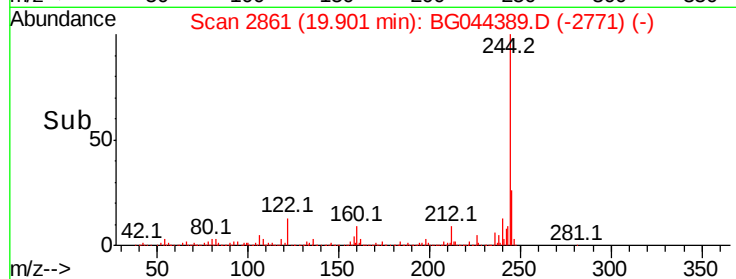
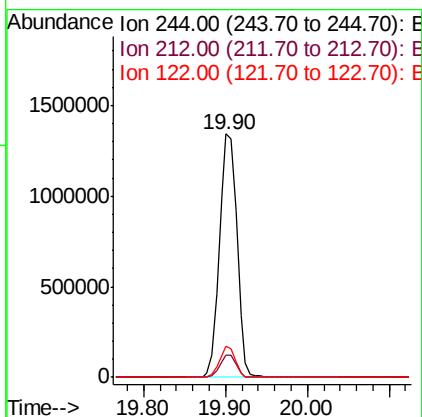
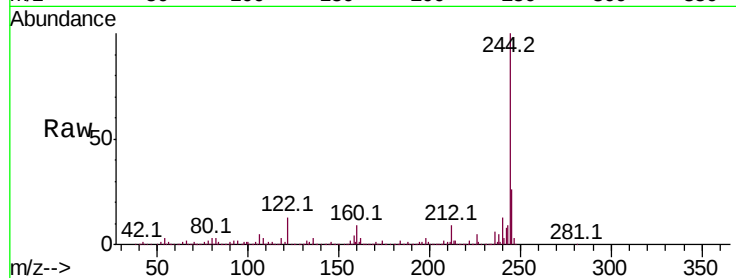




#79  
 Terphenyl-d14  
 Concen: 82.161 ng  
 RT: 19.90 min Scan# 2861  
 Delta R.T. -0.00 min  
 Lab File: BG044389.D  
 Acq: 11 Feb 2020 15:07

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB126698BL

Tot Ion:244 Resp: 2008052  
 Ion Ratio Lower Upper  
 244 100  
 212 9.3 7.4 11.2  
 122 12.8 9.8 14.6



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 24.62 min Scan# 3664  
 Delta R.T. -0.00 min  
 Lab File: BG044389.D  
 Acq: 11 Feb 2020 15:07

Tgt Ion:264 Resp: 518751  
 Ion Ratio Lower Upper  
 264 100  
 260 24.8 19.4 29.2  
 265 21.9 16.7 25.1

