

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG060320\  
 Data File : BG045590.D  
 Acq On : 3 Jun 2020 21:01  
 Operator : CG/JU  
 Sample : L2837-01  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jun 04 02:50:51 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG051520.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 01 15:07:00 2020  
 Response via : Initial Calibration

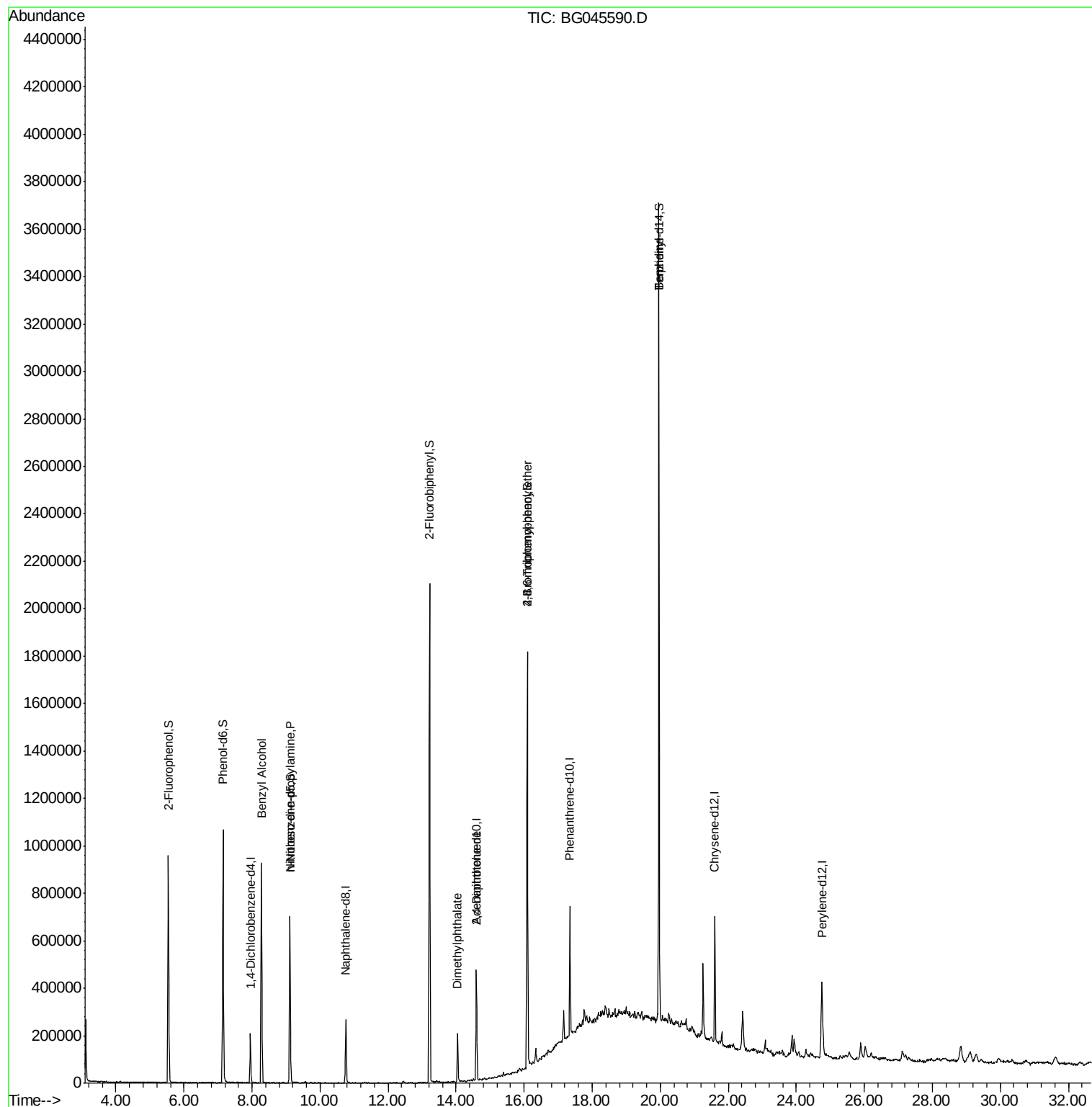
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.96  | 152  | 59668    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.76 | 136  | 244600   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.59 | 164  | 173715   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.34 | 188  | 355767   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.60 | 240  | 333547   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 24.76 | 264  | 370317   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.54  | 112  | 465734   | 152.54 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.15  | 99   | 708428   | 163.02 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.11  | 82   | 492110   | 109.71 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.09 | 330  | 365456   | 164.50 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.22 | 172  | 1163624  | 113.62 | ng    | 0.00     |
| 79) Terphenyl-d14              | 19.96 | 244  | 1615060  | 112.93 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 8.27  | 79   | 8512     | 2.371  | ng    | # 50     |
| 19) n-Nitroso-di-n-propylamine | 9.11  | 70   | 67550    | 22.479 | ng    | # 83     |
| 50) Dimethylphthalate          | 14.05 | 163  | 143213   | 12.018 | ng    | # 99     |
| 57) 2,4-Dinitrotoluene         | 14.59 | 165  | 24055    | 6.177  | ng    | # 23     |
| 67) 4-Bromophenyl-phenylether  | 16.09 | 248  | 24658    | 6.401  | ng    | # 1      |
| 77) Benzidine                  | 19.96 | 184  | 32025    | 3.419  | ng    | # 94     |

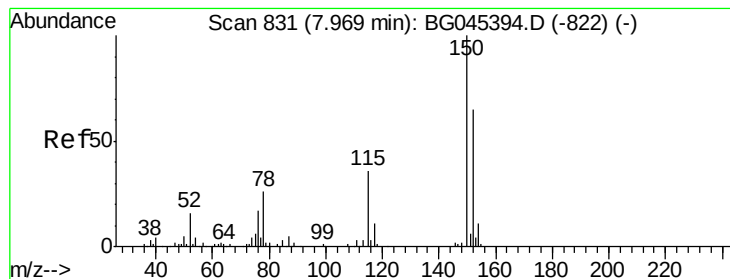
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG060320\  
Data File : BG045590.D  
Acq On : 3 Jun 2020 21:01  
Operator : CG/JU  
Sample : L2837-01  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Jun 04 02:50:51 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG051520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jun 01 15:07:00 2020  
Response via : Initial Calibration



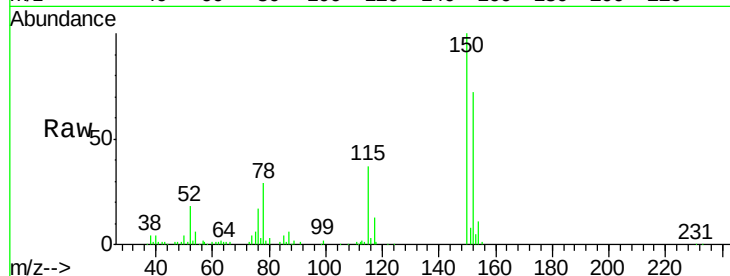


#1

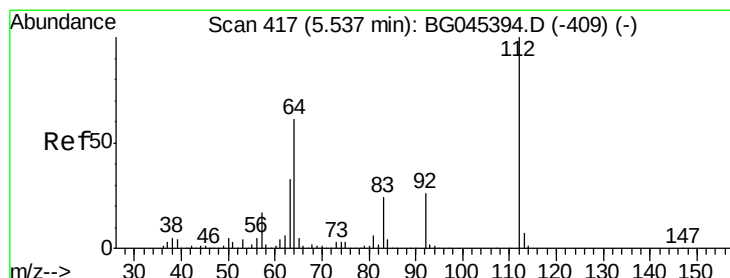
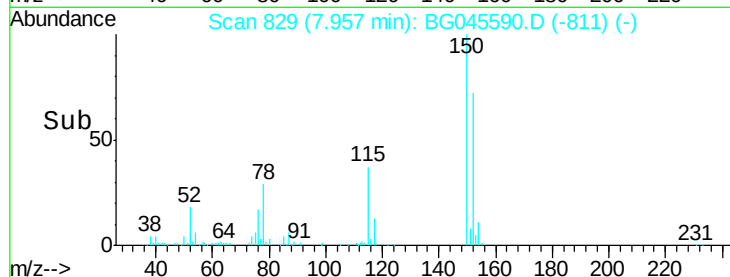
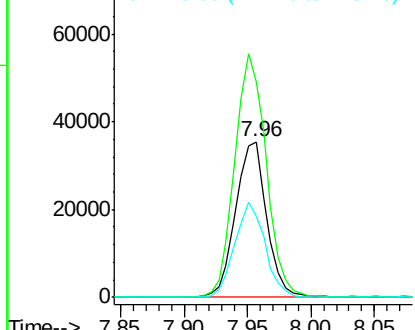
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.96 min Scan# 829  
Delta R.T. 0.01 min  
Lab File: BG045590.D  
Acq: 3 Jun 2020 21:01

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 139.0 | 122.4 | 183.6 |
| 115     | 51.8  | 44.2  | 66.4  |



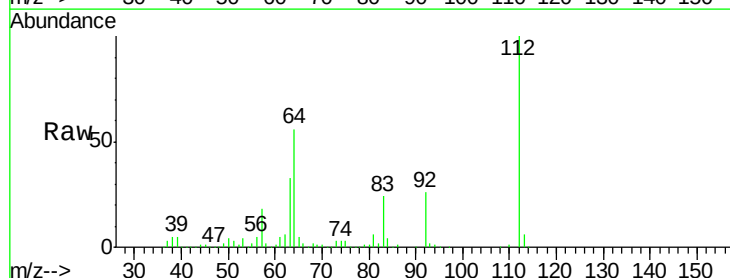
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



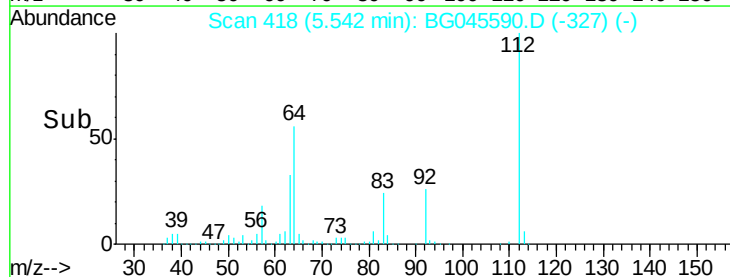
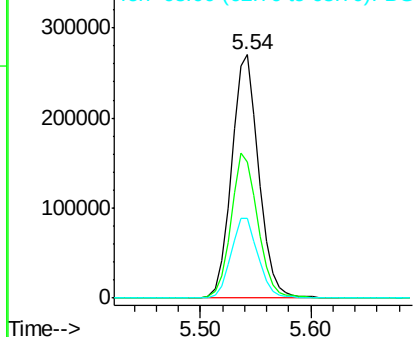
#5

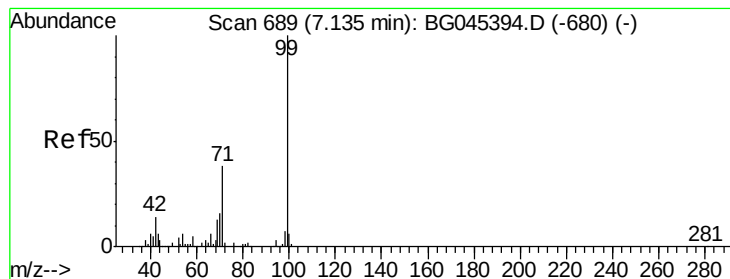
2-Fluorophenol  
Concen: 152.541 ng  
RT: 5.54 min Scan# 418  
Delta R.T. 0.01 min  
Lab File: BG045590.D  
Acq: 3 Jun 2020 21:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 55.8  | 48.6  | 72.8  |
| 63      | 32.5  | 26.5  | 39.7  |



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: 163.023 ng

RT: 7.15 min Scan# 691

Delta R.T. -0.00 min

Lab File: BG045590.D

Acq: 3 Jun 2020 21:01

Instrument :

BNA\_G

ClientSampleId :

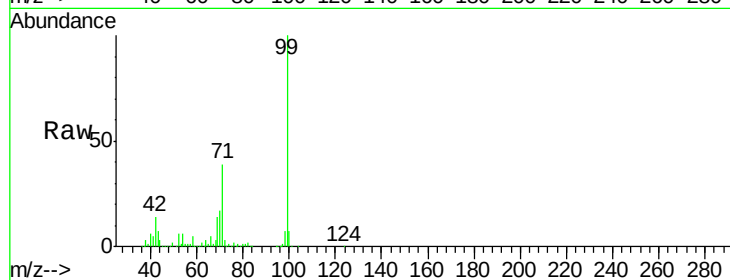
Tot Ion: 99 Resp: 708428

Ion Ratio Lower Upper

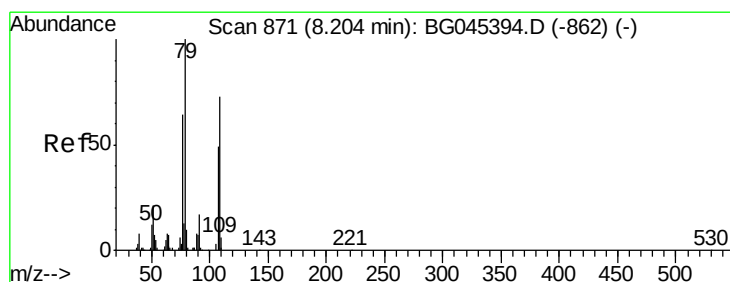
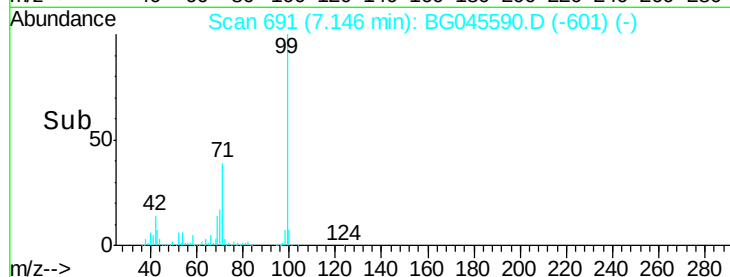
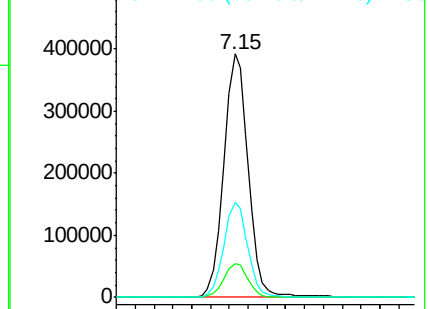
99 100

42 13.6 11.3 16.9

71 39.1 30.8 46.2



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



#15

Benzyl Alcohol

Concen: 2.371 ng

RT: 8.27 min Scan# 883

Delta R.T. 0.08 min

Lab File: BG045590.D

Acq: 3 Jun 2020 21:01

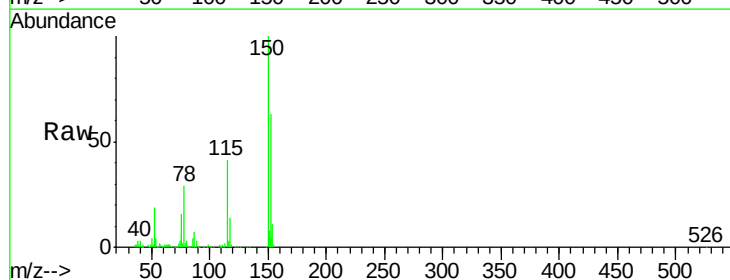
Tgt Ion: 79 Resp: 8512

Ion Ratio Lower Upper

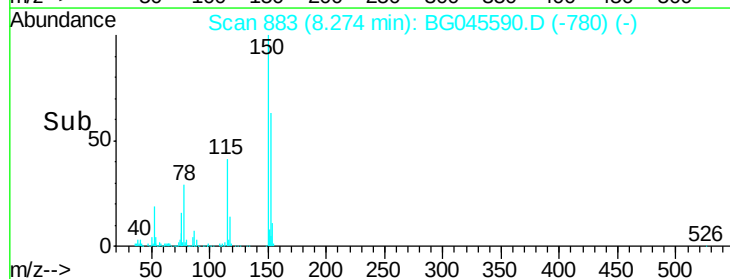
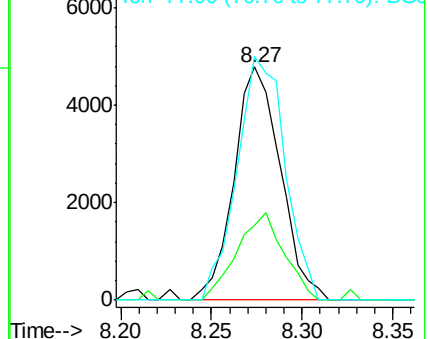
79 100

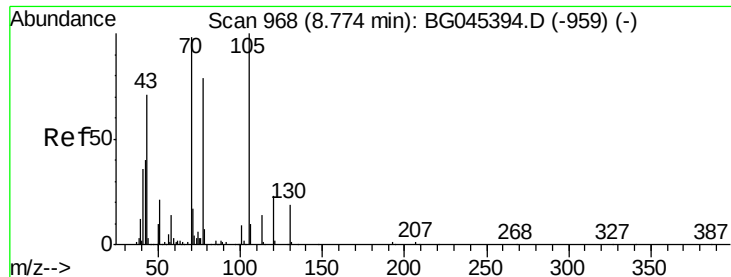
108 31.9 58.2 87.4#

77 104.5 51.0 76.4#



Abundance Ion 79.00 (78.70 to 79.70): BGC  
Ion 108.00 (107.70 to 108.70): BGC  
Ion 77.00 (76.70 to 77.70): BGC

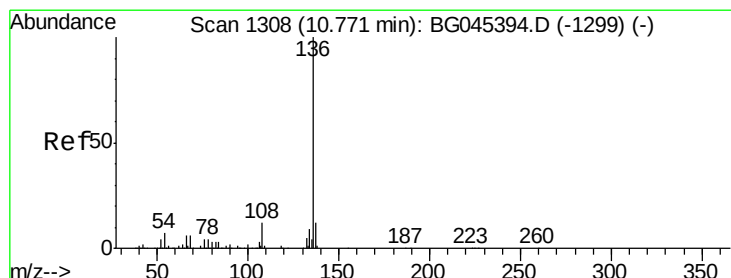
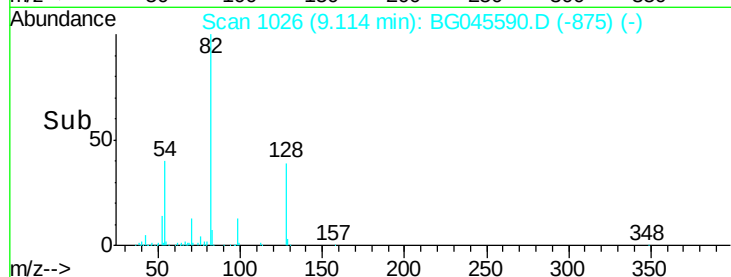
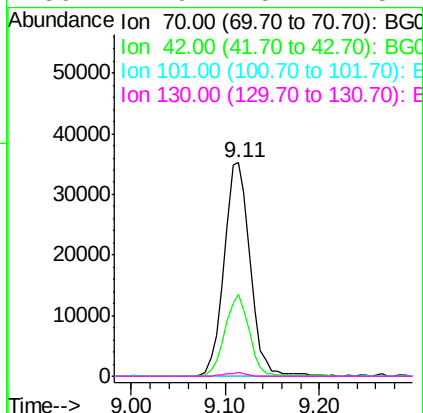
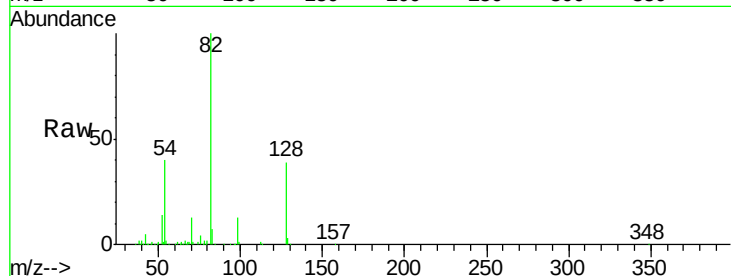




#19  
n-Nitroso-di-n-propylamine  
Concen: 22.479 ng  
RT: 9.11 min Scan# 1026  
Delta R.T. 0.36 min  
Lab File: BG045590.D  
Acq: 3 Jun 2020 21:01

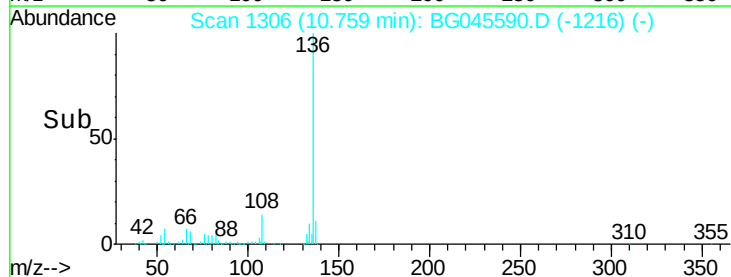
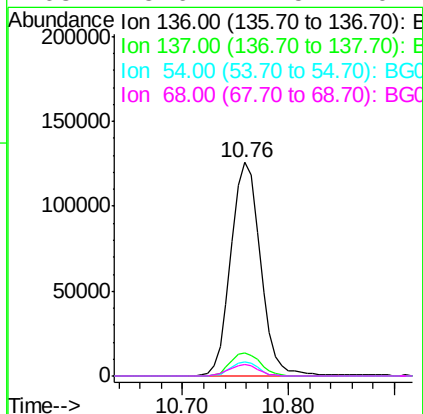
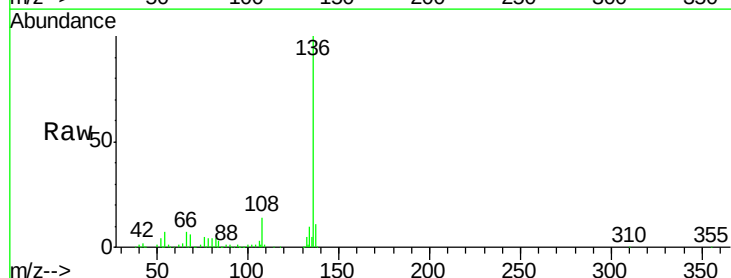
Instrument :  
BNA\_G  
ClientSampleId :

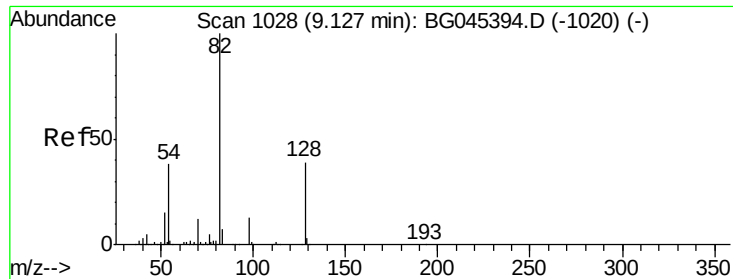
Tot Ion: 70 Resp: 67550  
Ion Ratio Lower Upper  
70 100  
42 38.6 33.2 49.8  
101 0.0 7.8 11.6#  
130 1.9 15.4 23.2#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.76 min Scan# 1306  
Delta R.T. -0.00 min  
Lab File: BG045590.D  
Acq: 3 Jun 2020 21:01

Tgt Ion:136 Resp: 244600  
Ion Ratio Lower Upper  
136 100  
137 10.8 9.4 14.2  
54 6.8 5.8 8.6  
68 5.6 4.5 6.7

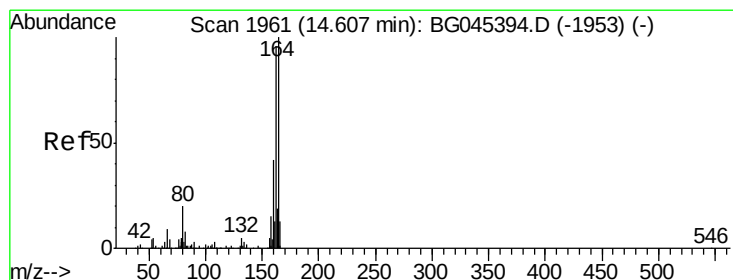
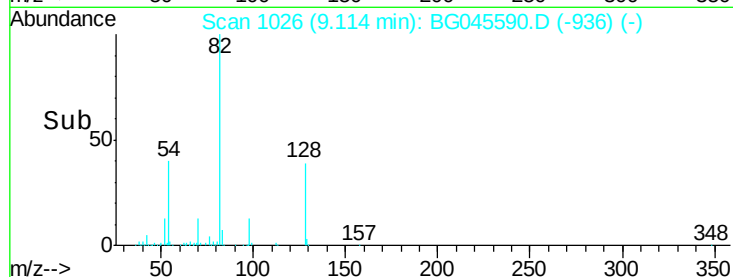
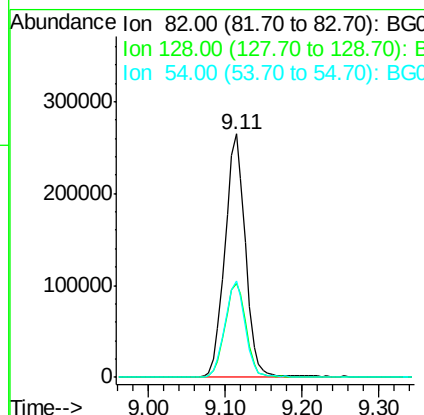
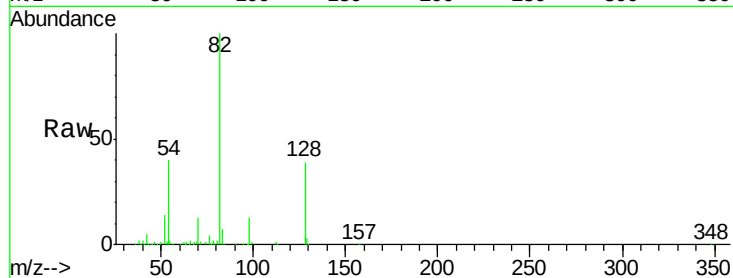




#23  
 Nitrobenzene-d5  
 Concen: 109.712 ng  
 RT: 9.11 min Scan# 1026  
 Delta R.T. -0.00 min  
 Lab File: BG045590.D  
 Acq: 3 Jun 2020 21:01

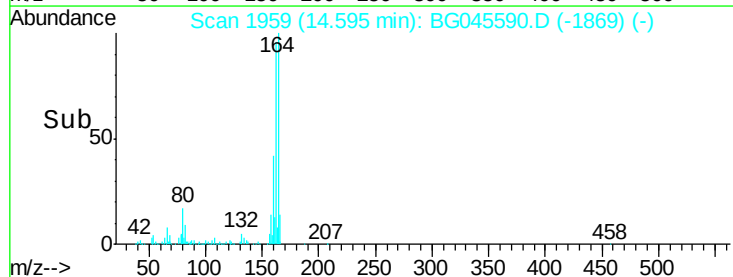
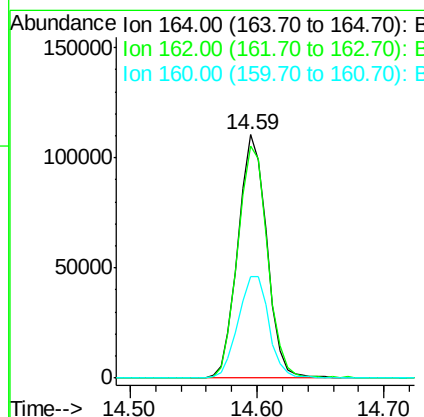
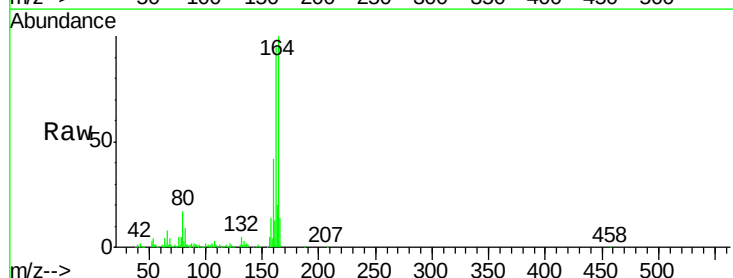
Instrument :  
 BNA\_G  
 ClientSampleId :

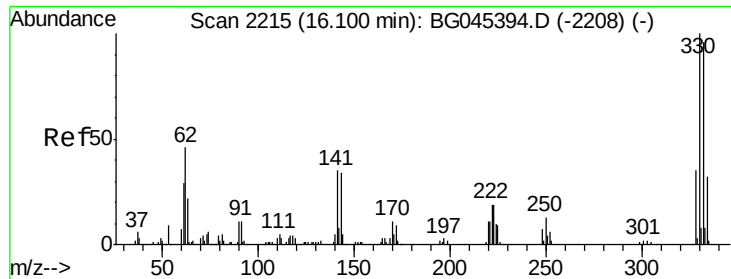
| Tot Ion | 82    | Resp  | 492110 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 82      | 100   |       |        |
| 128     | 38.5  | 30.9  | 46.3   |
| 54      | 39.6  | 30.3  | 45.5   |



#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.59 min Scan# 1959  
 Delta R.T. -0.00 min  
 Lab File: BG045590.D  
 Acq: 3 Jun 2020 21:01

| Tgt Ion | 164   | Resp  | 173715 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 164     | 100   |       |        |
| 162     | 95.1  | 76.9  | 115.3  |
| 160     | 41.7  | 33.8  | 50.8   |

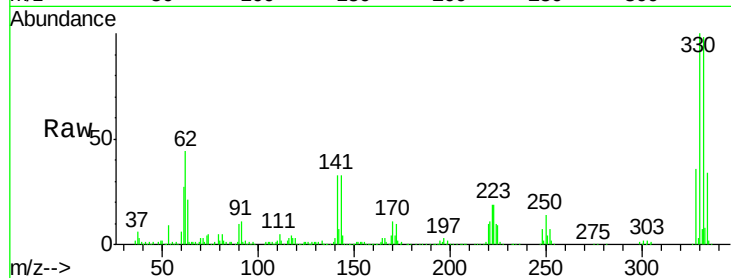




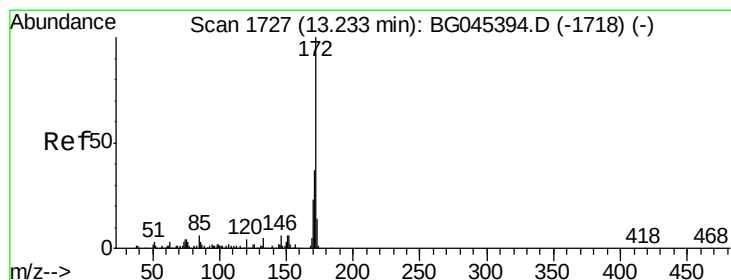
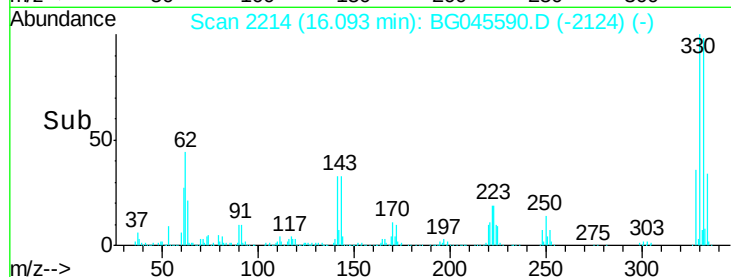
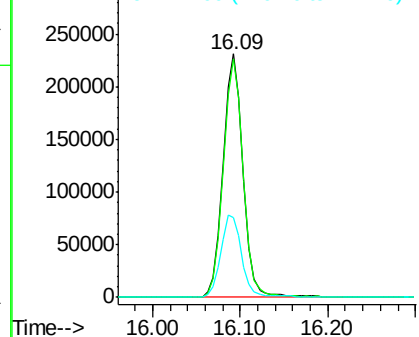
#42  
 2,4,6-Tribromophenol  
 Concen: 164.500 ng  
 RT: 16.09 min Scan# 2214  
 Delta R.T. -0.00 min  
 Lab File: BG045590.D  
 Acq: 3 Jun 2020 21:01

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:330 Resp: 365456  
 Ion Ratio Lower Upper  
 330 100  
 332 97.3 78.2 117.4  
 141 35.1 28.2 42.4

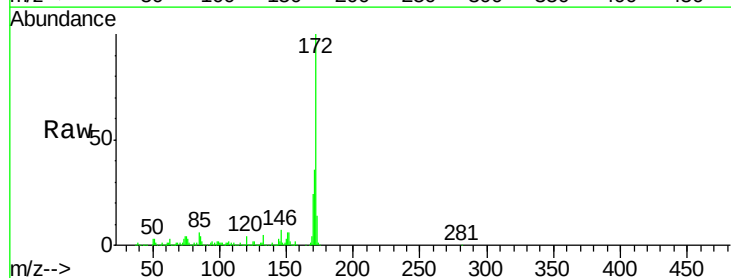


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

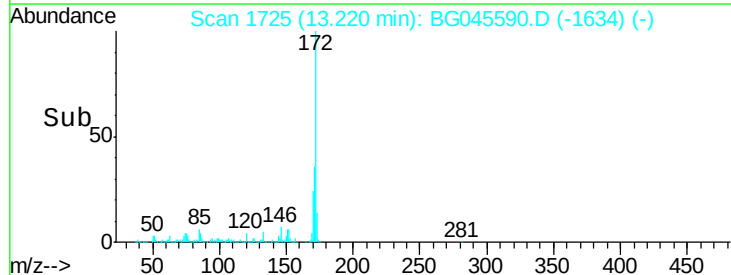
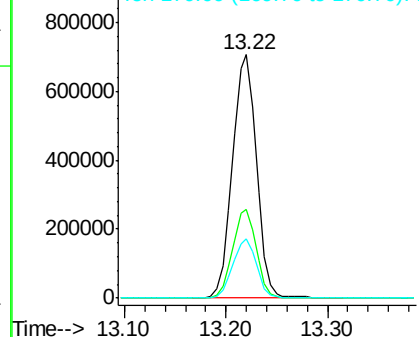


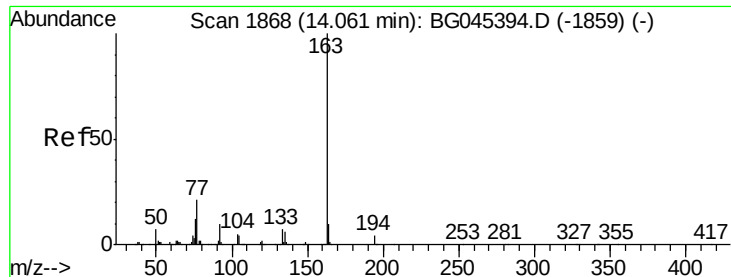
#45  
 2-Fluorobiphenyl  
 Concen: 113.620 ng  
 RT: 13.22 min Scan# 1725  
 Delta R.T. 0.01 min  
 Lab File: BG045590.D  
 Acq: 3 Jun 2020 21:01

Tgt Ion:172 Resp: 1163624  
 Ion Ratio Lower Upper  
 172 100  
 171 36.4 29.5 44.3  
 170 24.3 18.5 27.7



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





#50

Dimethylphthalate

Concen: 12.018 ng

RT: 14.05 min Scan# 1866

Delta R.T. -0.01 min

Lab File: BG045590.D

Acq: 3 Jun 2020 21:01

Instrument :

BNA\_G

ClientSampleId :

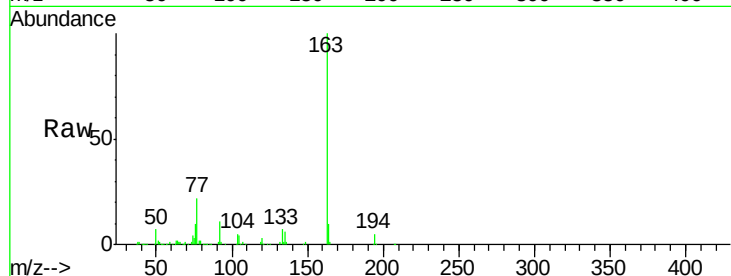
Tot Ion:163 Resp: 143213

Ion Ratio Lower Upper

163 100

194 4.6 3.2 4.8

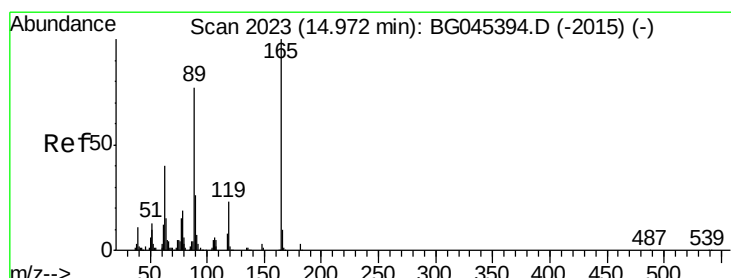
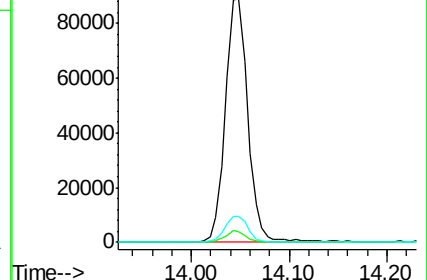
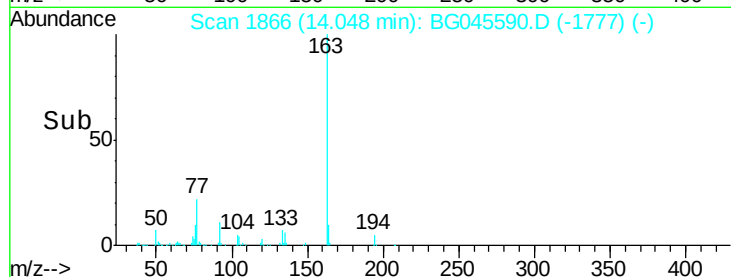
164 10.5 8.3 12.5



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#57

2,4-Dinitrotoluene

Concen: 6.177 ng

RT: 14.59 min Scan# 1959

Delta R.T. -0.36 min

Lab File: BG045590.D

Acq: 3 Jun 2020 21:01

Tgt Ion:165 Resp: 24055

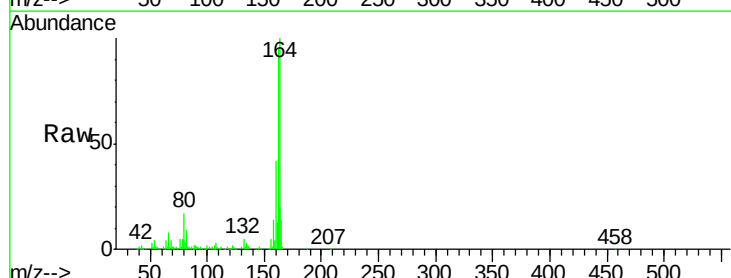
Ion Ratio Lower Upper

165 100

63 2.2 32.5 48.7#

89 1.9 61.8 92.6#

182 0.0 2.3 3.5#

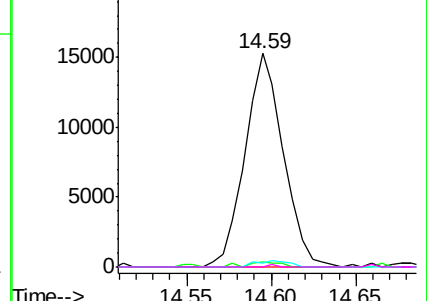
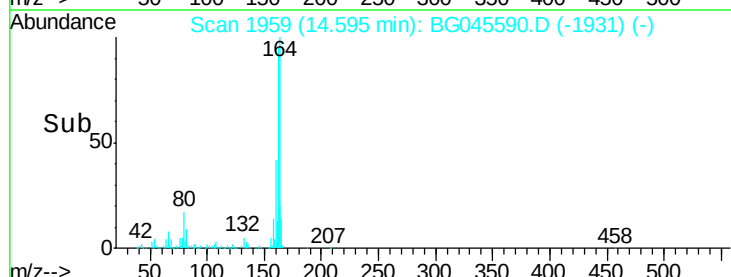


Abundance Ion 165.00 (164.70 to 165.70): E

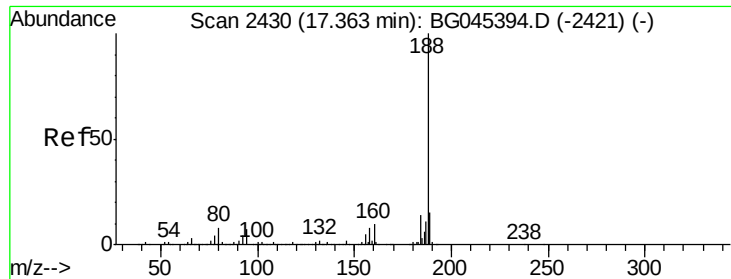
Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



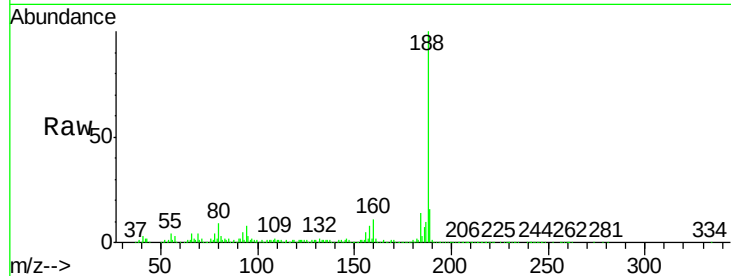




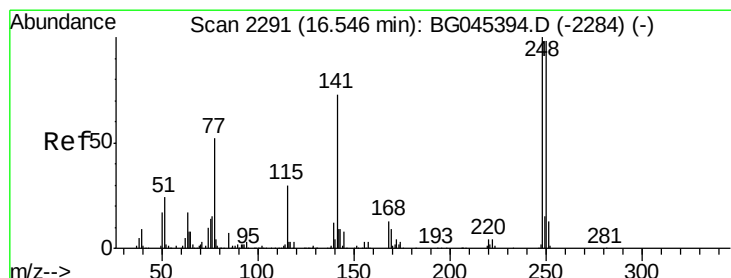
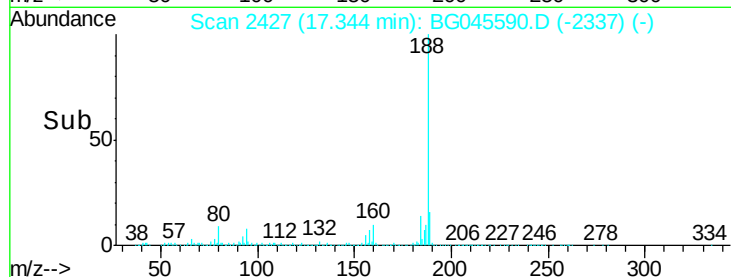
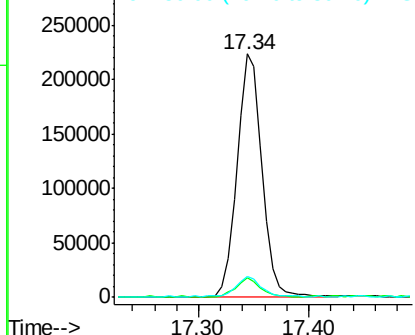
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.34 min Scan# 2427  
 Delta R.T. -0.00 min  
 Lab File: BG045590.D  
 Acq: 3 Jun 2020 21:01

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:188 Resp: 355767  
 Ion Ratio Lower Upper  
 188 100  
 94 7.9 5.5 8.3  
 80 8.8 6.6 10.0

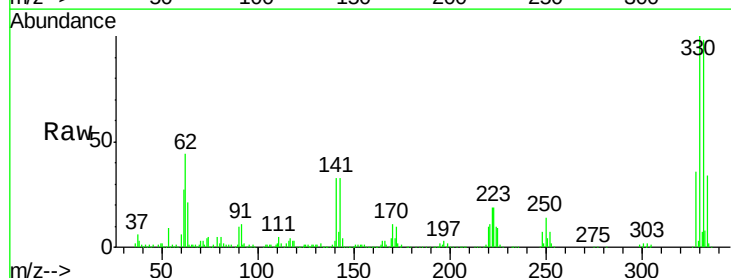


Abundance Ion 188.00 (187.70 to 188.70): E  
 Ion 94.00 (93.70 to 94.70): BGC  
 Ion 80.00 (79.70 to 80.70): BGC

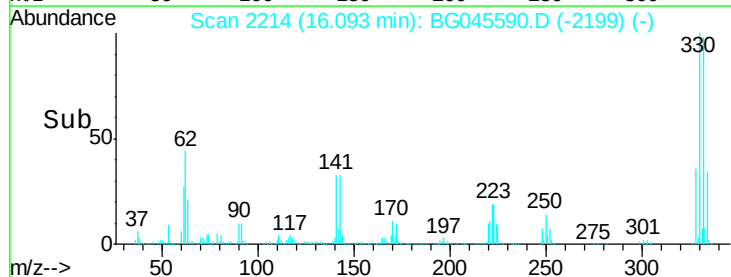
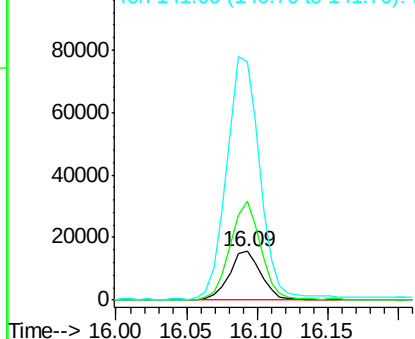


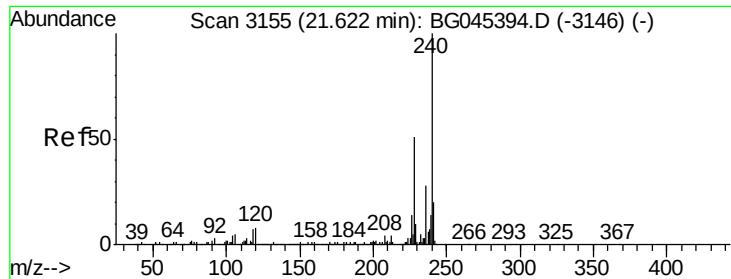
#67  
 4-Bromophenyl-phenylether  
 Concen: 6.401 ng  
 RT: 16.09 min Scan# 2214  
 Delta R.T. -0.44 min  
 Lab File: BG045590.D  
 Acq: 3 Jun 2020 21:01

Tgt Ion:248 Resp: 24658  
 Ion Ratio Lower Upper  
 248 100  
 250 203.7 78.6 117.8#  
 141 491.1 58.2 87.2#



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

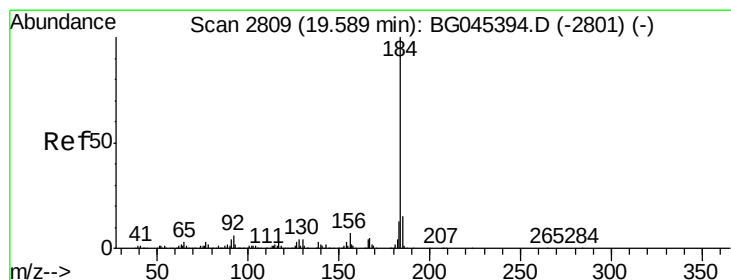
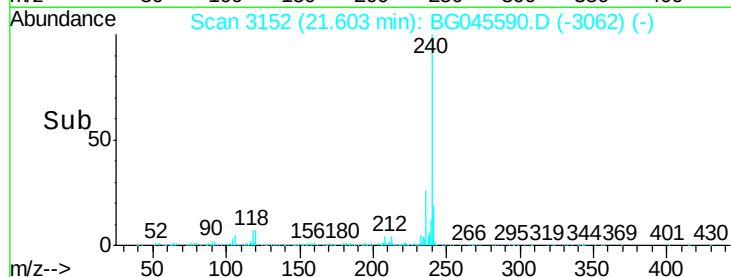
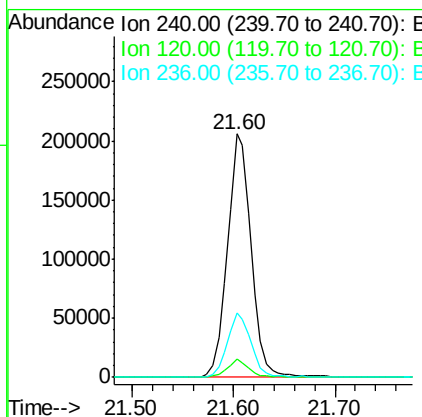
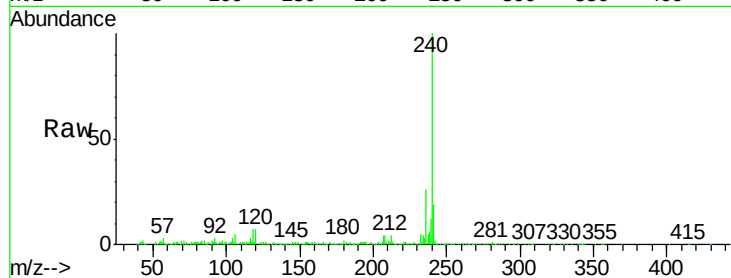




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.60 min Scan# 3152  
Delta R.T. -0.00 min  
Lab File: BG045590.D  
Acq: 3 Jun 2020 21:01

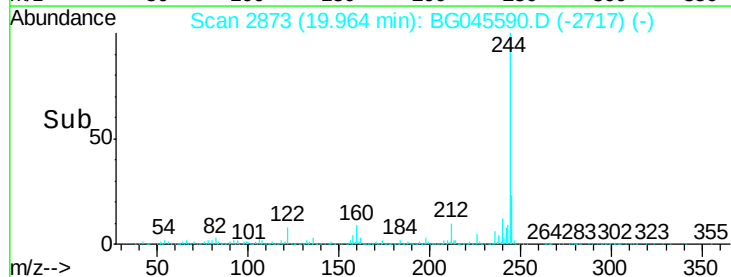
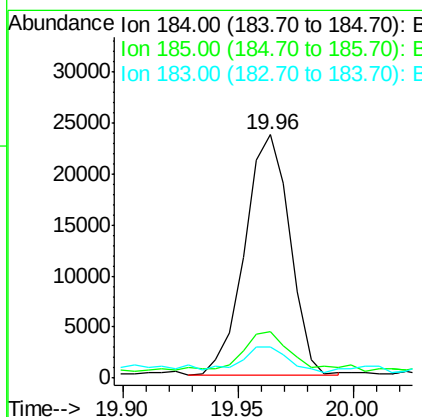
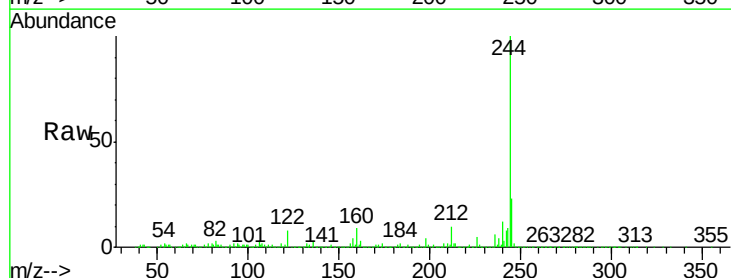
Instrument :  
BNA\_G  
ClientSampled :

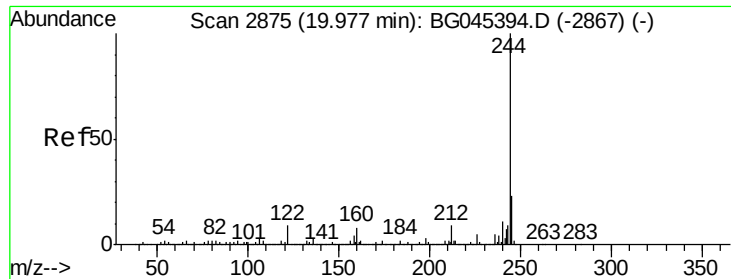
Tot Ion:240 Resp: 333547  
Ion Ratio Lower Upper  
240 100  
120 7.3 6.1 9.1  
236 26.2 22.3 33.5



#77  
Benzidine  
Concen: 3.419 ng  
RT: 19.96 min Scan# 2873  
Delta R.T. 0.39 min  
Lab File: BG045590.D  
Acq: 3 Jun 2020 21:01

Tgt Ion:184 Resp: 32025  
Ion Ratio Lower Upper  
184 100  
185 19.0 11.7 17.5#  
183 13.0 10.2 15.4





#79

Terphenyl-d14

Concen: 112.932 ng

RT: 19.96 min Scan# 2873

Delta R.T. 0.01 min

Lab File: BG045590.D

Acq: 3 Jun 2020 21:01

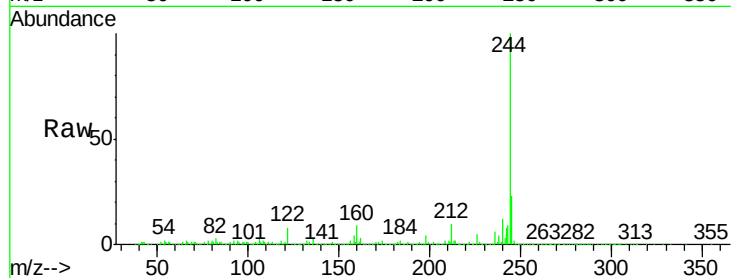
Instrument :

BNA\_G

ClientSampleId :

Tot Ion:244 Resp: 1615060

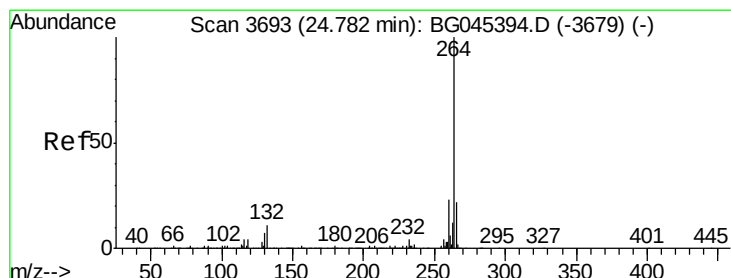
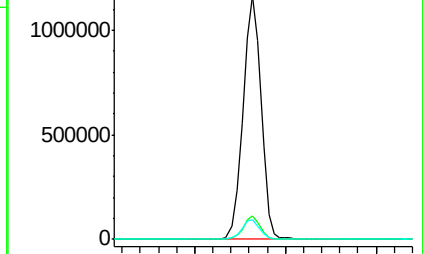
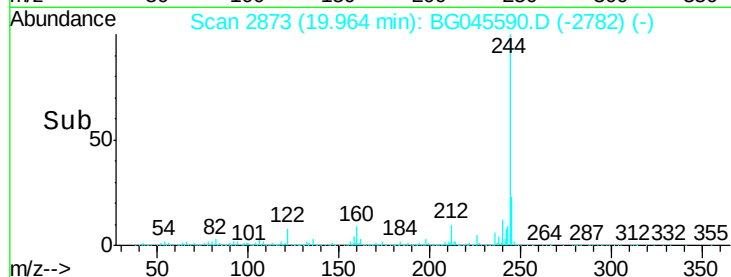
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 9.5   | 7.4   | 11.0  |
| 122 | 8.2   | 6.8   | 10.2  |



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: 24.76 min Scan# 3689

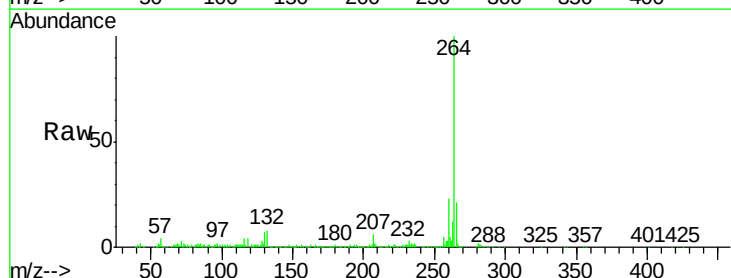
Delta R.T. 0.01 min

Lab File: BG045590.D

Acq: 3 Jun 2020 21:01

Tgt Ion:264 Resp: 370317

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 22.6  | 18.2  | 27.4  |
| 265 | 21.3  | 17.6  | 26.4  |



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

