

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG021720\  
 Data File : BG044455.D  
 Acq On : 17 Feb 2020 20:18  
 Operator : CG/JU  
 Sample : L1547-03  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Feb 18 06:06:28 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

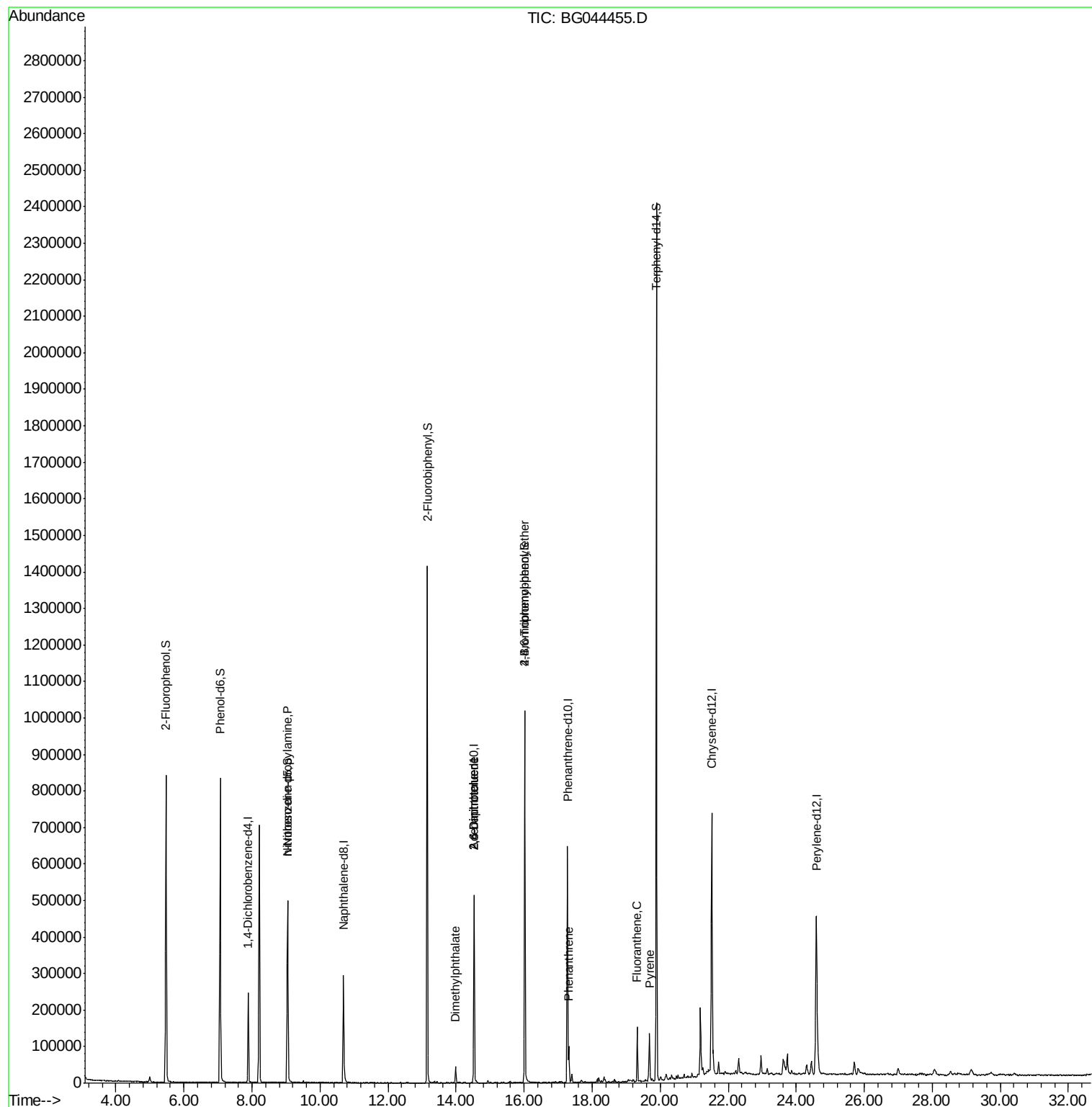
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.89  | 152  | 74647    | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 10.69 | 136  | 293563   | 20.00  | ng    | -0.01    |
| 39) Acenaphthene-d10           | 14.53 | 164  | 187718   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10           | 17.27 | 188  | 418333   | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12               | 21.51 | 240  | 418524   | 20.00  | ng    | -0.02    |
| 87) Perylene-d12               | 24.59 | 264  | 450080   | 20.00  | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.47  | 112  | 429211   | 101.48 | ng    | -0.01    |
| 7) Phenol-d6                   | 7.07  | 99   | 557001   | 98.07  | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 9.05  | 82   | 331346   | 63.72  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 16.02 | 330  | 216722   | 98.34  | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 13.15 | 172  | 795090   | 70.93  | ng    | -0.01    |
| 79) Terphenyl-d14              | 19.89 | 244  | 1255557  | 61.71  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.05  | 70   | 41663    | 11.006 | ng    | # 74     |
| 50) Dimethylphthalate          | 13.99 | 163  | 40002    | 2.964  | ng    | # 98     |
| 51) 2,6-Dinitrotoluene         | 14.53 | 165  | 23984    | 7.972  | ng    | # 29     |
| 57) 2,4-Dinitrotoluene         | 14.53 | 165  | 23984    | 5.688  | ng    | # 27     |
| 67) 4-Bromophenyl-phenylether  | 16.02 | 248  | 14384    | 3.156  | ng    | # 1      |
| 71) Phenanthrene               | 17.31 | 178  | 65774    | 3.247  | ng    | 93       |
| 75) Fluoranthene               | 19.33 | 202  | 96318    | 4.110  | ng    | 94       |
| 78) Pyrene                     | 19.69 | 202  | 87048    | 3.239  | ng    | 94       |

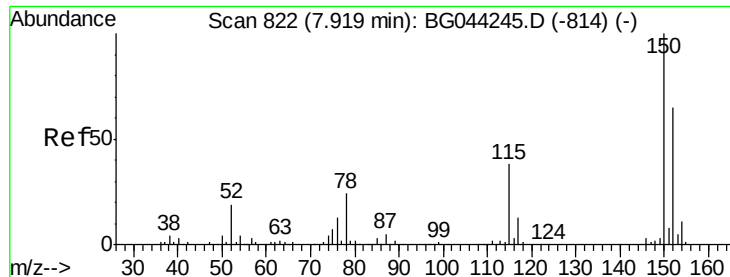
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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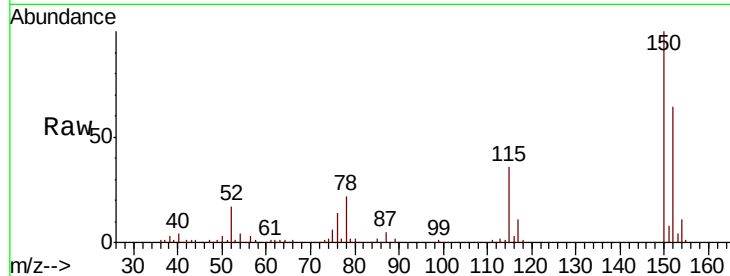


#1

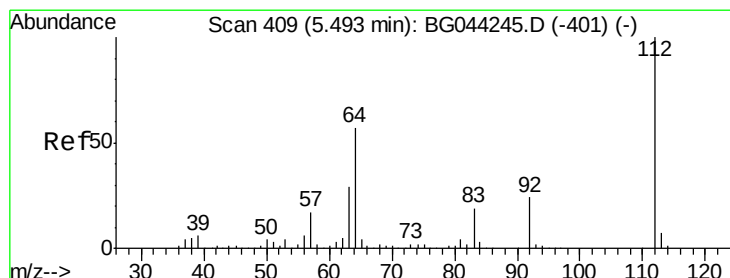
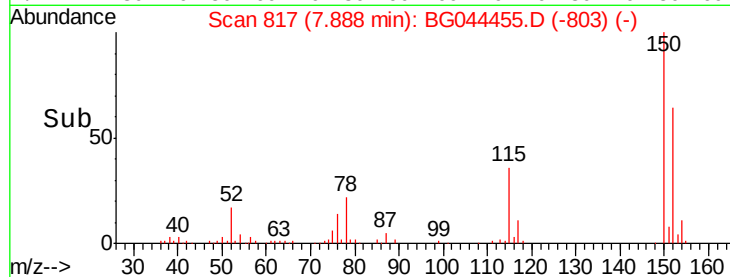
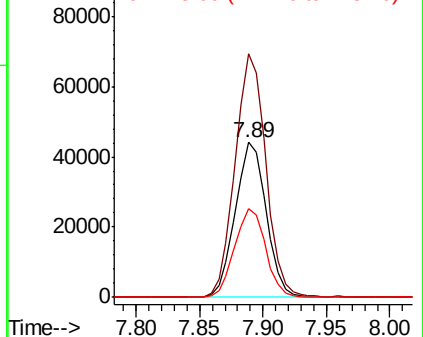
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 7.89 min Scan# 817  
 Delta R.T. -0.02 min  
 Lab File: BG044455.D  
 Acq: 17 Feb 2020 20:18

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.2 | 122.6 | 183.8 |
| 115     | 57.2  | 46.0  | 69.0  |



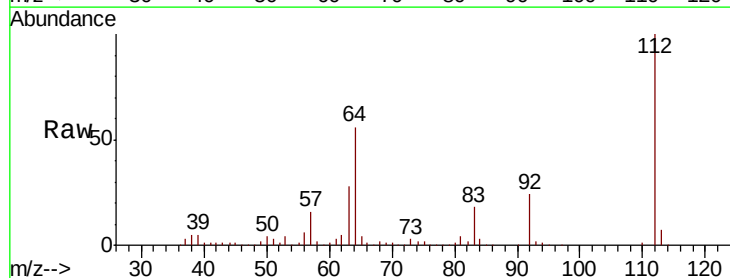
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



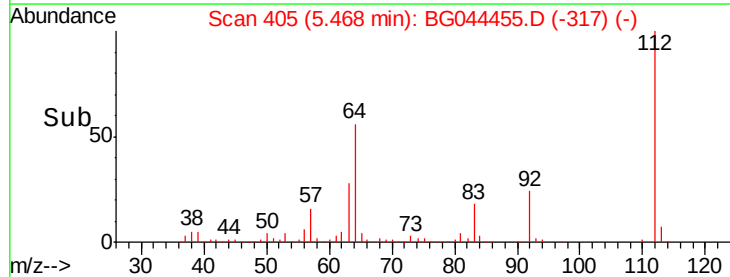
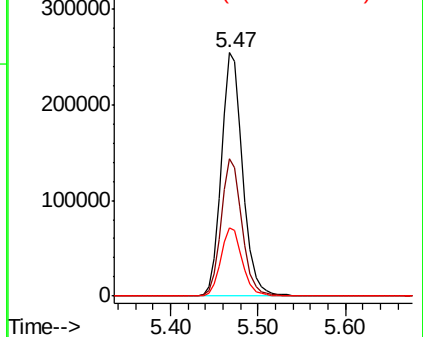
#5

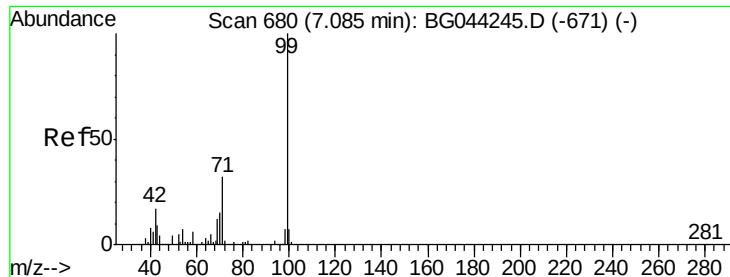
2-Fluorophenol  
 Concen: 101.476 ng  
 RT: 5.47 min Scan# 405  
 Delta R.T. -0.01 min  
 Lab File: BG044455.D  
 Acq: 17 Feb 2020 20:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.3  | 45.4  | 68.2  |
| 63      | 28.2  | 22.9  | 34.3  |



Abundance Ion 112.00 (111.70 to 112.70): E  
 Ion 64.00 (63.70 to 64.70): BG0  
 Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 98.067 ng

RT: 7.07 min Scan# 677

Delta R.T. -0.01 min

Lab File: BG044455.D

Acq: 17 Feb 2020 20:18

Instrument :

BNA\_G

ClientSampleId :

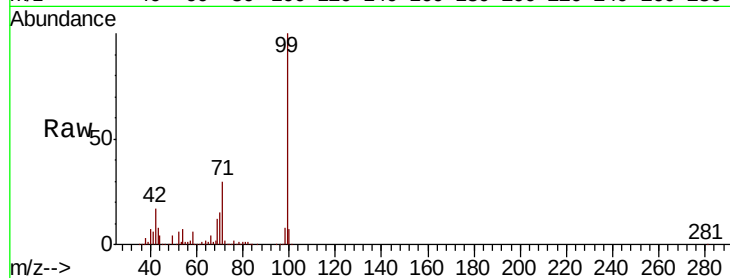
Tot Ion: 99 Resp: 557001

Ion Ratio Lower Upper

99 100

42 16.8 13.8 20.6

71 30.3 25.5 38.3

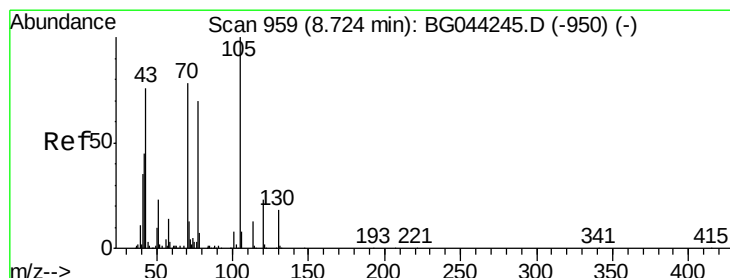
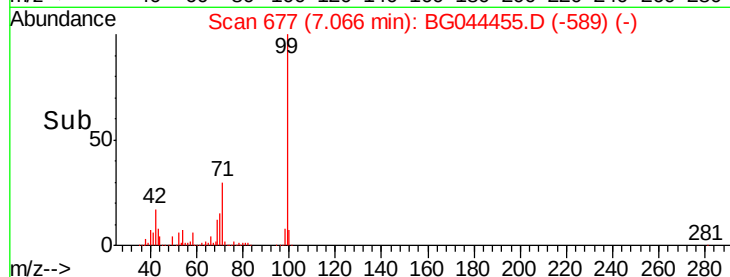
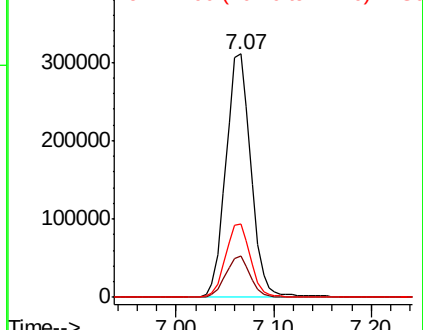


Abundance

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: 11.006 ng

RT: 9.05 min Scan# 1014

Delta R.T. 0.34 min

Lab File: BG044455.D

Acq: 17 Feb 2020 20:18

Tgt Ion: 70 Resp: 41663

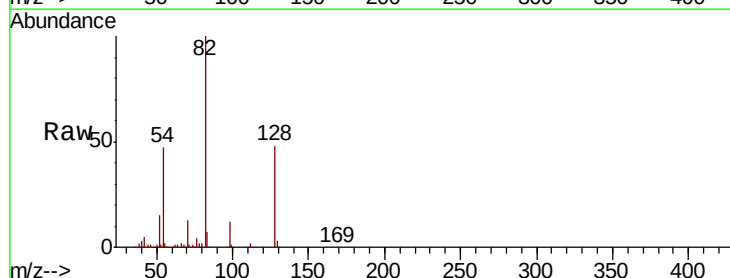
Ion Ratio Lower Upper

70 100

42 42.7 46.2 69.2#

101 0.0 8.4 12.6#

130 2.6 17.8 26.8#



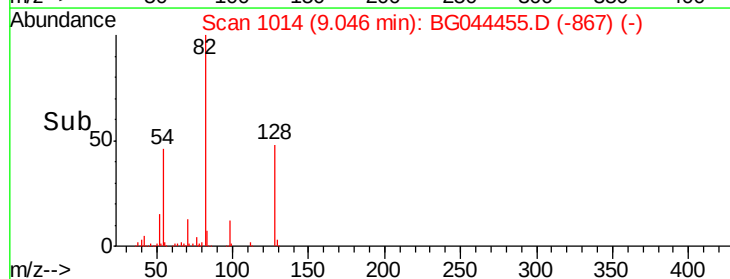
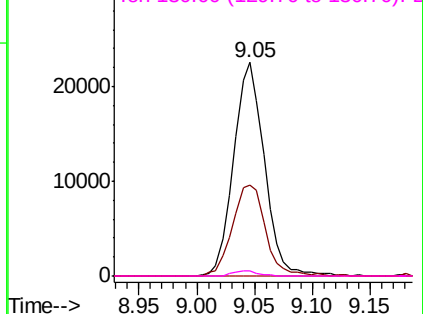
Abundance

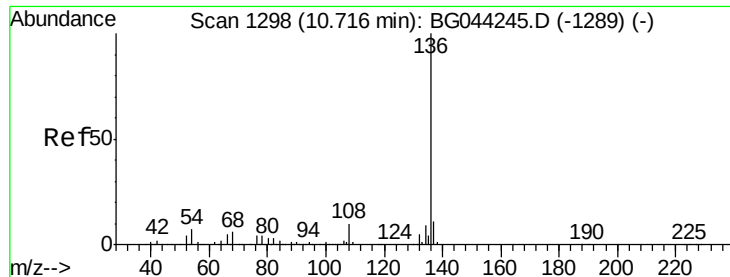
Ion 70.00 (69.70 to 70.70): BGC

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

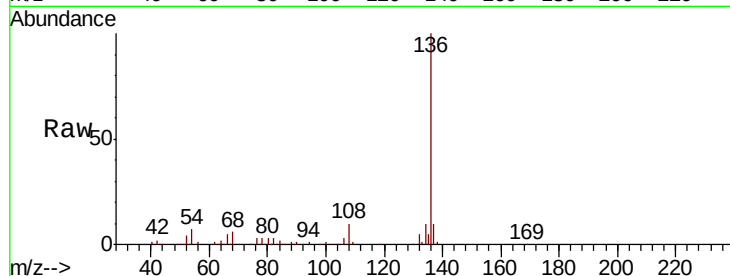




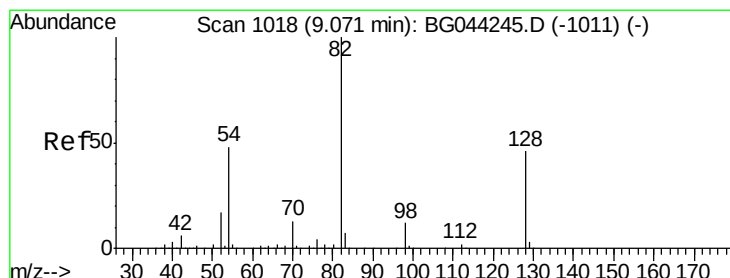
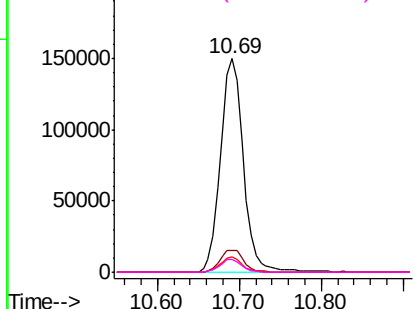
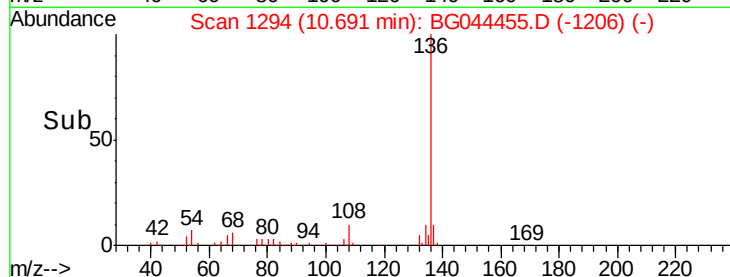
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.69 min Scan# 1294  
Delta R.T. -0.01 min  
Lab File: BG044455.D  
Acq: 17 Feb 2020 20:18

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 293563      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 10.4  | 8.8 13.2    |
| 54          | 7.4   | 5.8 8.8     |
| 68          | 5.9   | 4.6 6.8     |

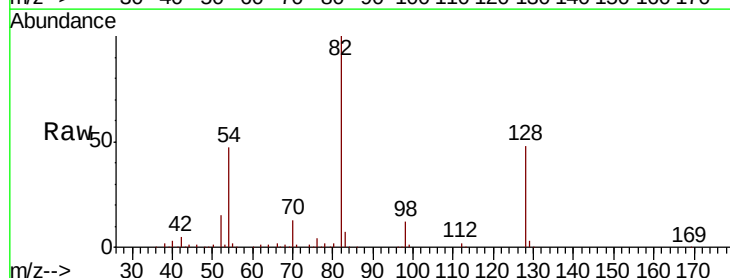


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

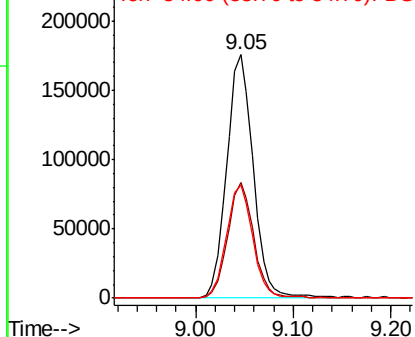
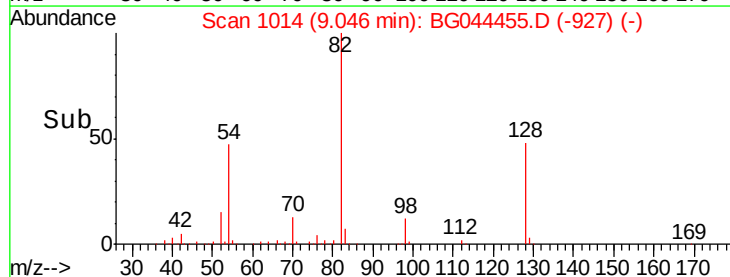


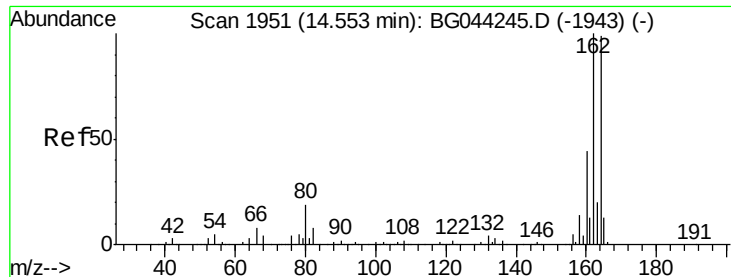
#23  
Nitrobenzene-d5  
Concen: 63.723 ng  
RT: 9.05 min Scan# 1014  
Delta R.T. -0.02 min  
Lab File: BG044455.D  
Acq: 17 Feb 2020 20:18

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 331346      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 47.7  | 36.5 54.7   |
| 54          | 46.6  | 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: 14.53 min Scan# 1947

Delta R.T. -0.02 min

Lab File: BG044455.D

Acq: 17 Feb 2020 20:18

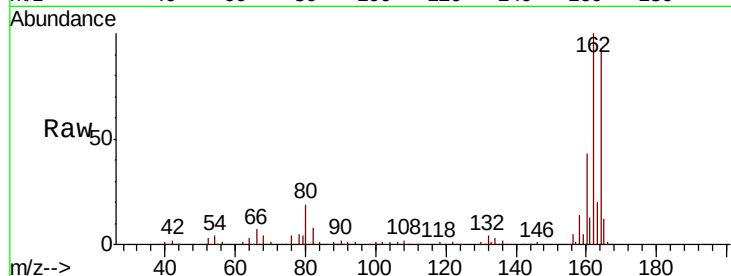
Instrument :

BNA\_G

ClientSampleId :

Tot Ion:164 Resp: 187718

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 107.8 | 80.7  | 121.1 |
| 160 | 46.5  | 35.3  | 52.9  |

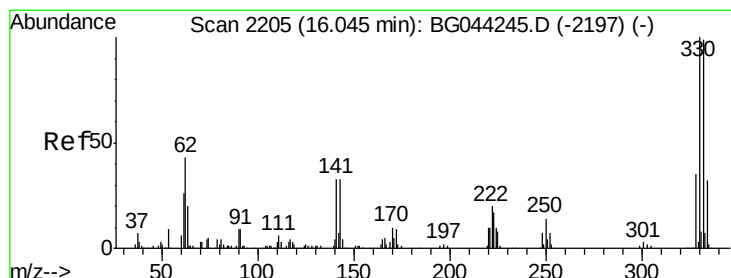
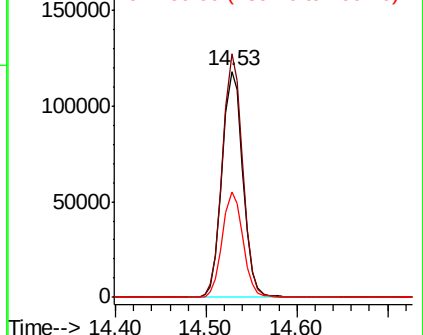
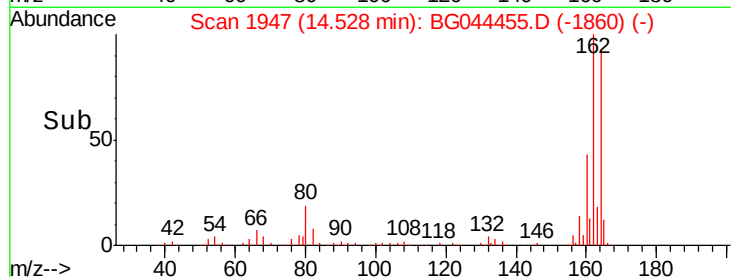


Abundance

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: 98.345 ng

RT: 16.02 min Scan# 2201

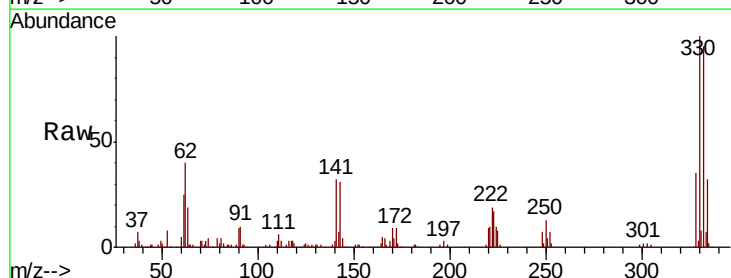
Delta R.T. -0.01 min

Lab File: BG044455.D

Acq: 17 Feb 2020 20:18

Tgt Ion:330 Resp: 216722

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 330 | 100   |       |       |
| 332 | 95.1  | 77.2  | 115.8 |
| 141 | 34.2  | 28.3  | 42.5  |

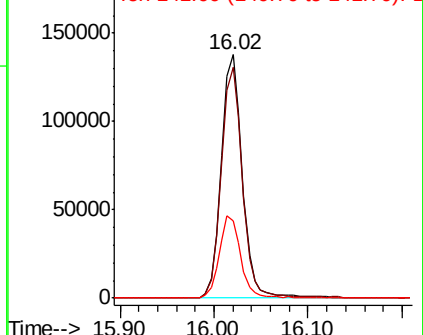
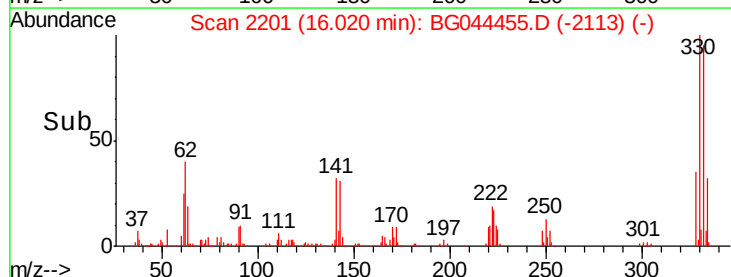


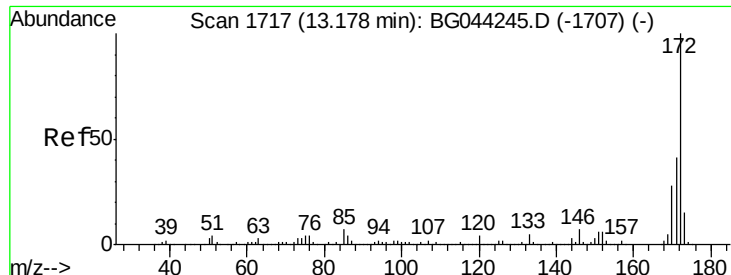
Abundance

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

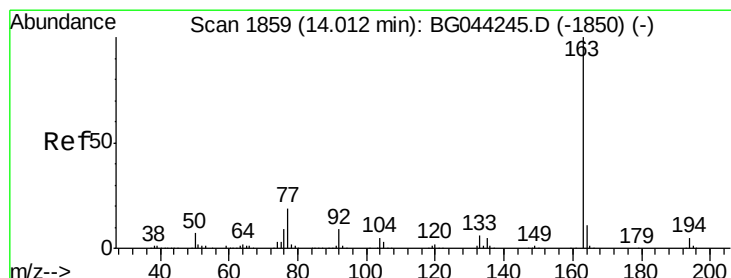
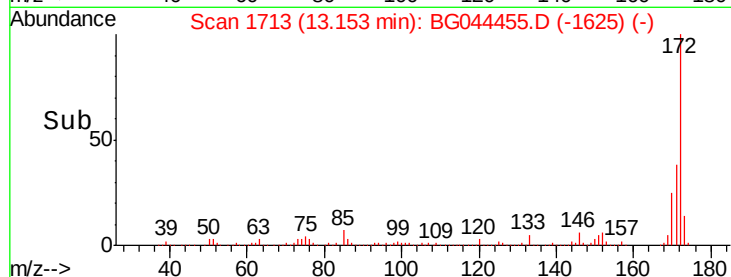
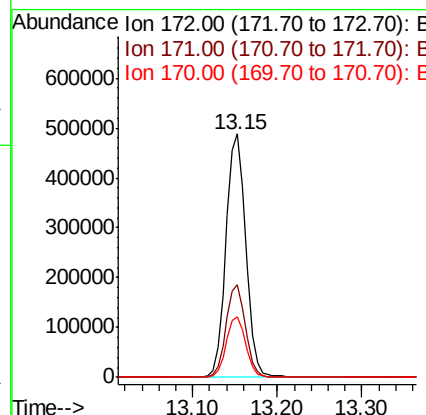
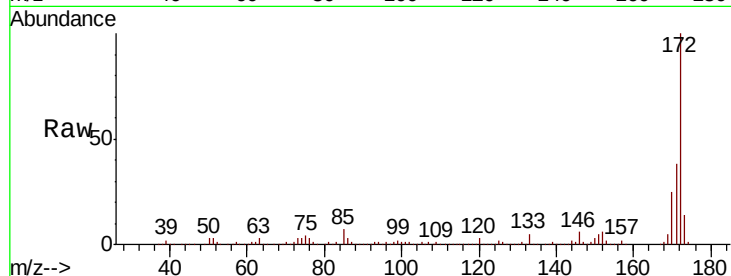




#45  
2-Fluorobiphenyl  
Concen: 70.927 ng  
RT: 13.15 min Scan# 1713  
Delta R.T. -0.01 min  
Lab File: BG044455.D  
Acq: 17 Feb 2020 20:18

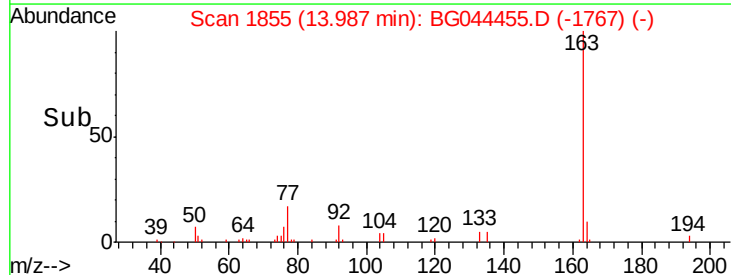
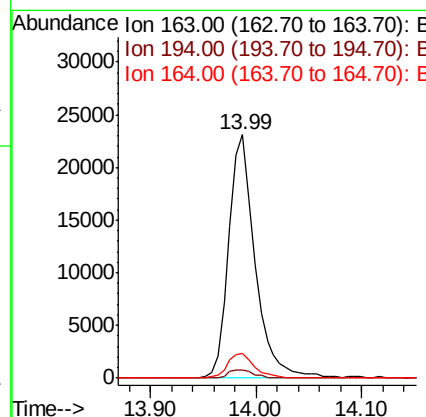
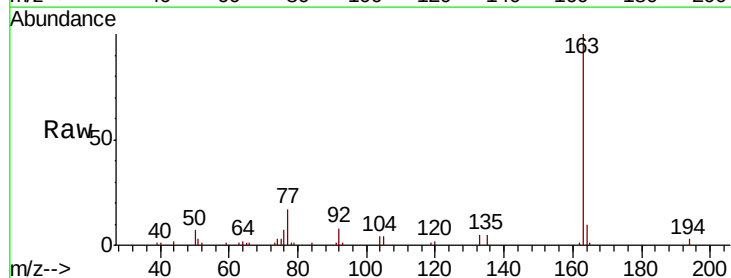
Instrument :  
BNA\_G  
ClientSampleId :

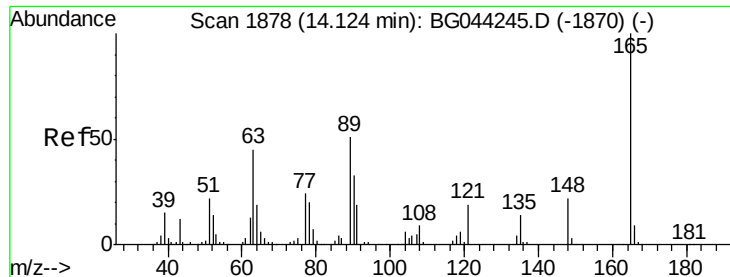
Tot Ion:172 Resp: 795090  
Ion Ratio Lower Upper  
172 100  
171 38.1 32.9 49.3  
170 24.8 22.0 33.0



#50  
Dimethylphthalate  
Concen: 2.964 ng  
RT: 13.99 min Scan# 1855  
Delta R.T. -0.01 min  
Lab File: BG044455.D  
Acq: 17 Feb 2020 20:18

Tgt Ion:163 Resp: 40002  
Ion Ratio Lower Upper  
163 100  
194 3.3 3.6 5.4#  
164 10.3 8.7 13.1





#51

2,6-Dinitrotoluene

Concen: 7.972 ng

RT: 14.53 min Scan# 1947

Delta R.T. 0.41 min

Lab File: BG044455.D

Acq: 17 Feb 2020 20:18

Instrument :

BNA\_G

ClientSampleId :

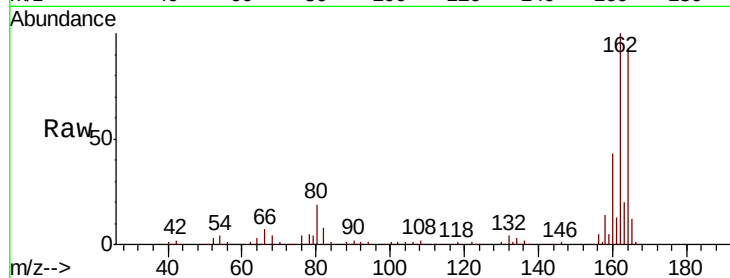
Tot Ion:165 Resp: 23984

Ion Ratio Lower Upper

165 100

63 0.0 38.7 58.1#

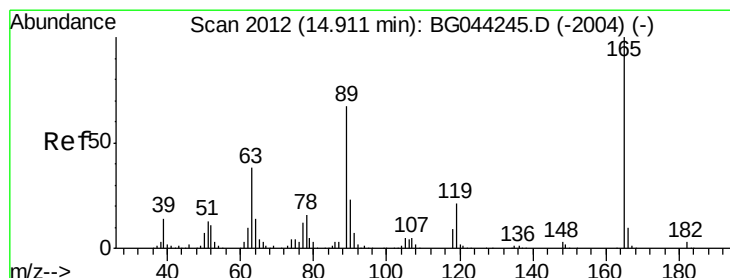
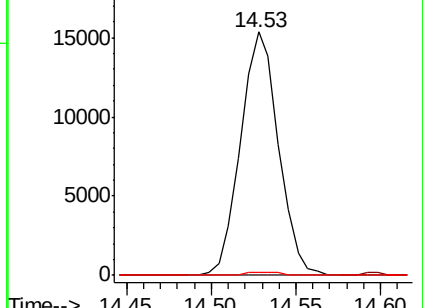
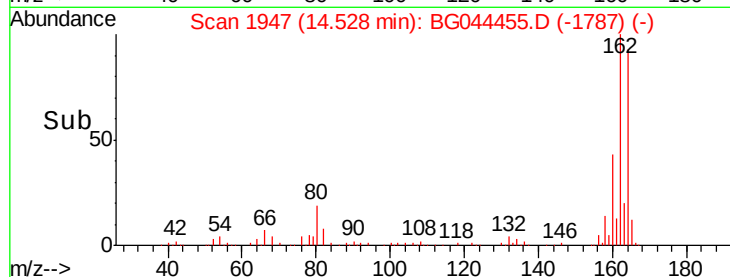
89 1.4 40.4 60.6#



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



#57

2,4-Dinitrotoluene

Concen: 5.688 ng

RT: 14.53 min Scan# 1947

Delta R.T. -0.38 min

Lab File: BG044455.D

Acq: 17 Feb 2020 20:18

Tgt Ion:165 Resp: 23984

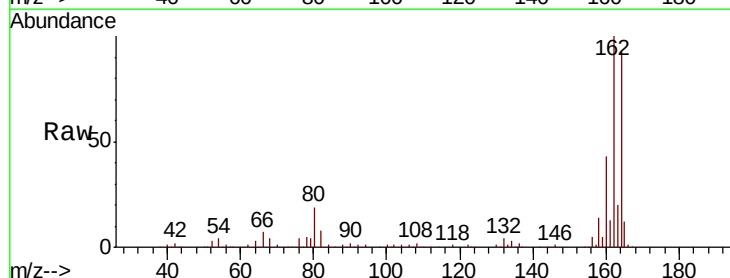
Ion Ratio Lower Upper

165 100

63 0.0 30.3 45.5#

89 1.4 53.4 80.2#

182 0.0 2.1 3.1#

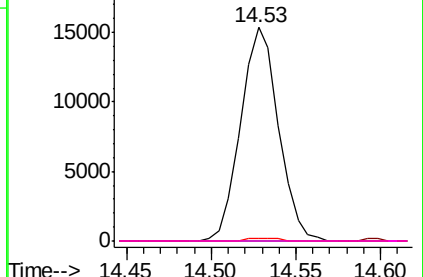
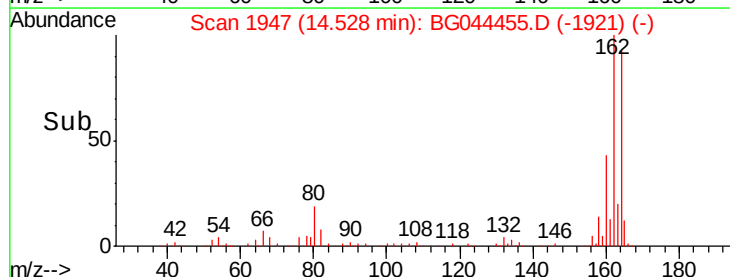


Abundance Ion 165.00 (164.70 to 165.70): E

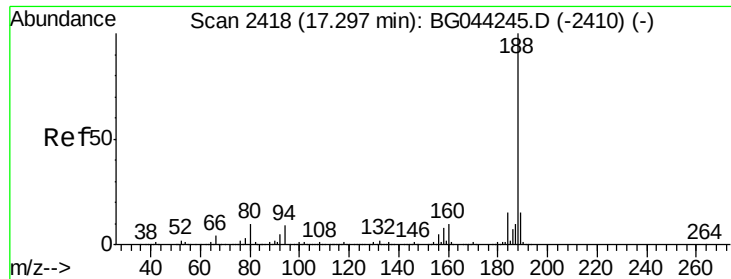
Ion 63.00 (62.70 to 63.70): BGC

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: 17.27 min Scan# 2414

Delta R.T. -0.02 min

Lab File: BG044455.D

Acq: 17 Feb 2020 20:18

Instrument :

BNA\_G

ClientSampleId :

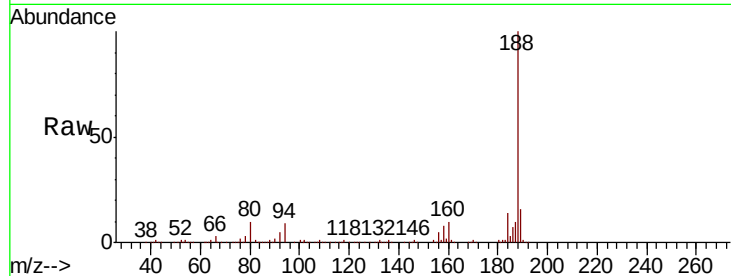
Tot Ion:188 Resp: 418333

Ion Ratio Lower Upper

188 100

94 9.1 7.4 11.2

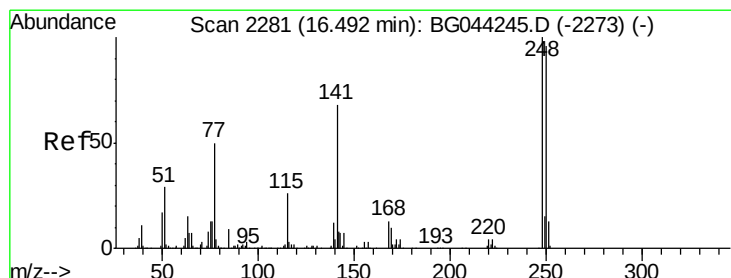
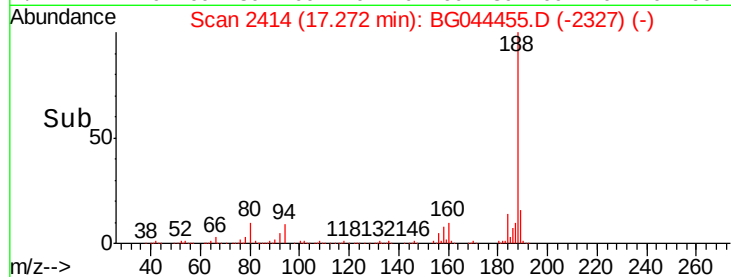
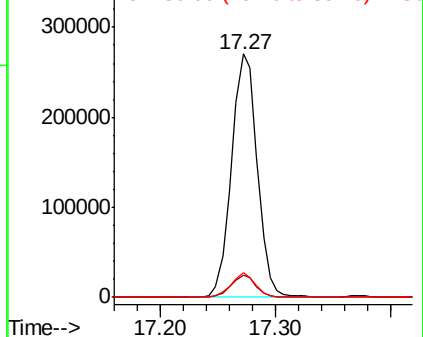
80 10.0 7.7 11.5



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG

Ion 80.00 (79.70 to 80.70): BG



#67

4-Bromophenyl-phenylether

Concen: 3.156 ng

RT: 16.02 min Scan# 2201

Delta R.T. -0.46 min

Lab File: BG044455.D

Acq: 17 Feb 2020 20:18

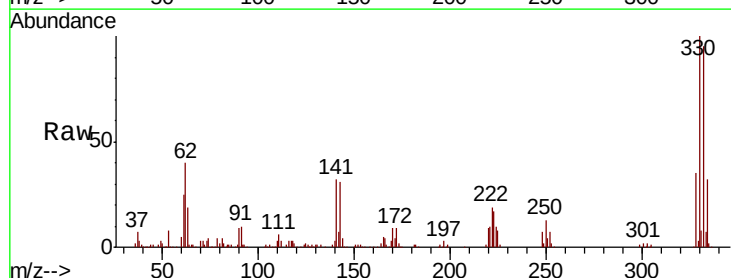
Tgt Ion:248 Resp: 14384

Ion Ratio Lower Upper

248 100

250 195.2 76.6 114.8#

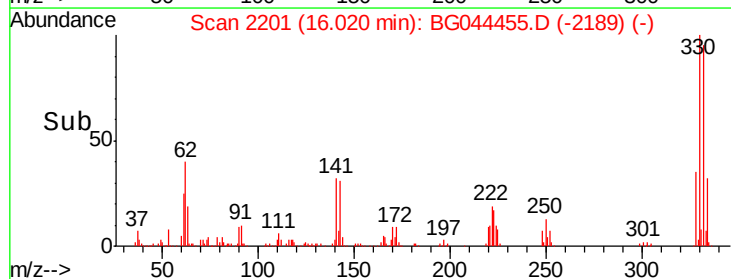
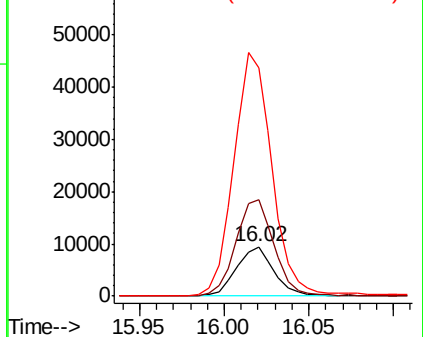
141 461.1 54.7 82.1#

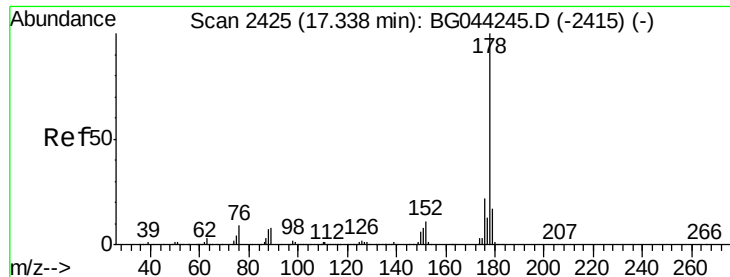


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

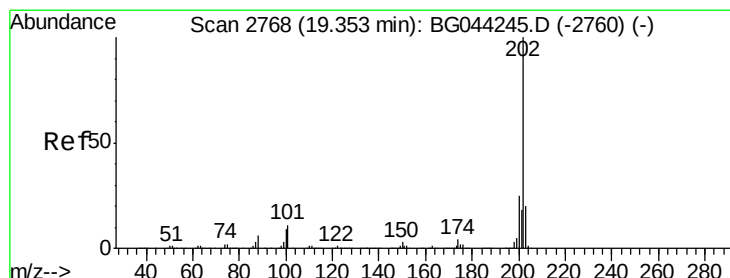
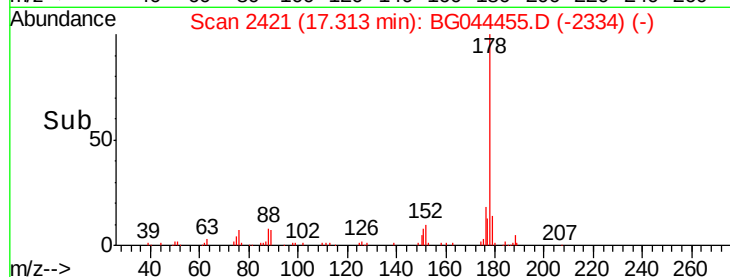
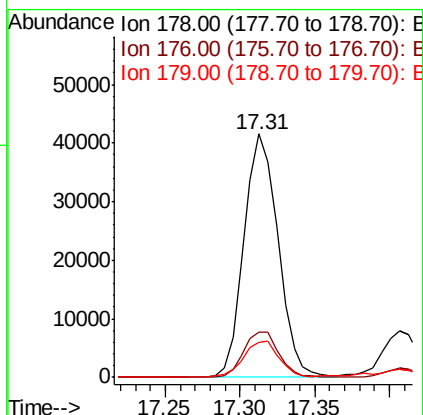
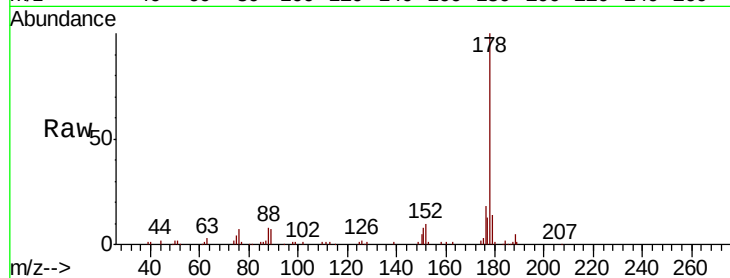




#71  
Phenanthrene  
Concen: 3.247 ng  
RT: 17.31 min Scan# 2421  
Delta R.T. -0.02 min  
Lab File: BG044455.D  
Acq: 17 Feb 2020 20:18

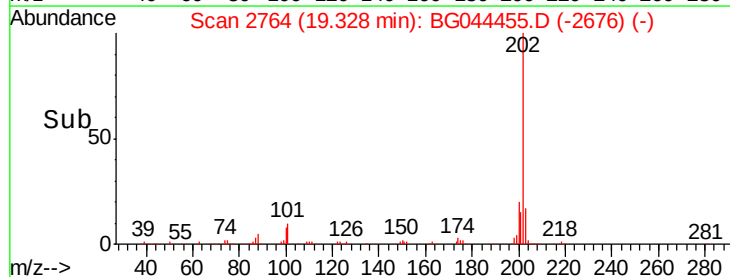
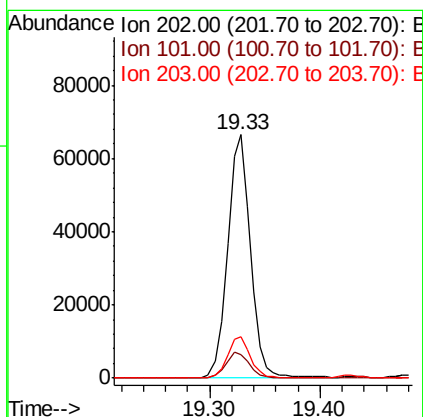
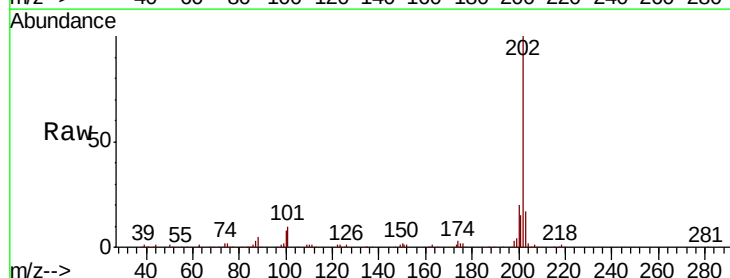
Instrument :  
BNA\_G  
ClientSampled :

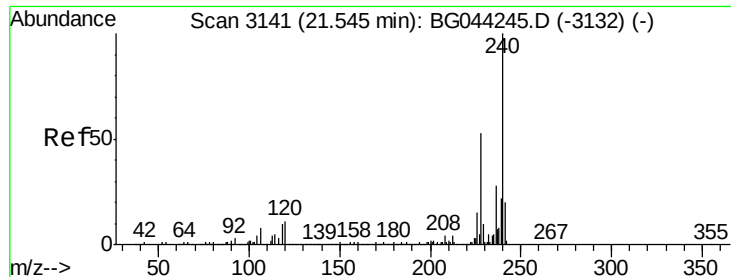
Tot Ion:178 Resp: 65774  
Ion Ratio Lower Upper  
178 100  
176 18.4 17.7 26.5  
179 14.5 13.7 20.5



#75  
Fluoranthene  
Concen: 4.110 ng  
RT: 19.33 min Scan# 2764  
Delta R.T. -0.01 min  
Lab File: BG044455.D  
Acq: 17 Feb 2020 20:18

Tgt Ion:202 Resp: 96318  
Ion Ratio Lower Upper  
202 100  
101 9.5 0.0 31.3  
203 16.8 0.0 39.9

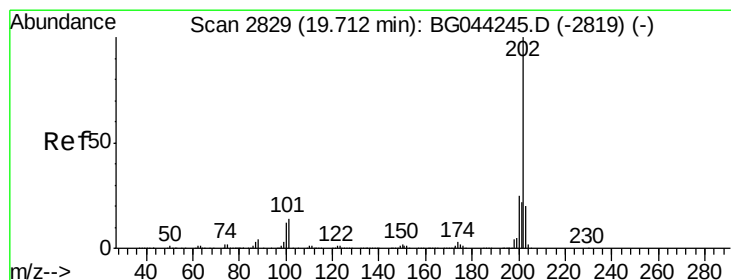
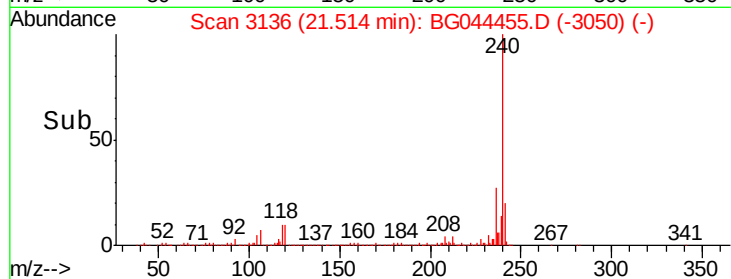
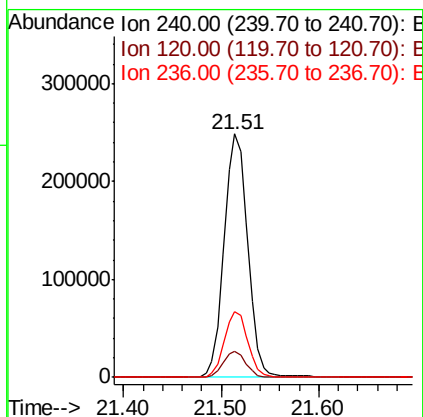
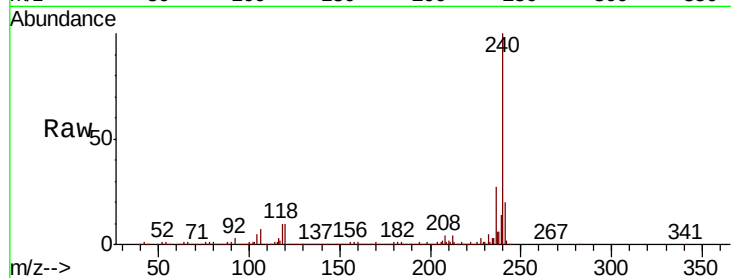




#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.51 min Scan# 3136  
 Delta R.T. -0.02 min  
 Lab File: BG044455.D  
 Acq: 17 Feb 2020 20:18

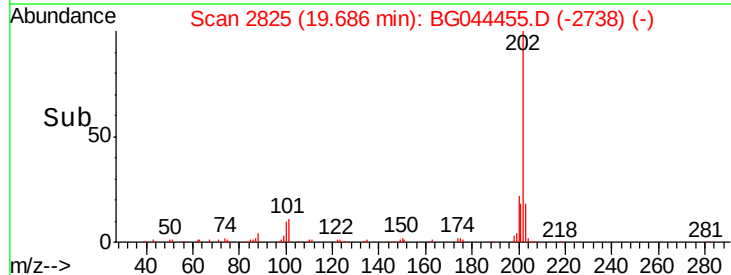
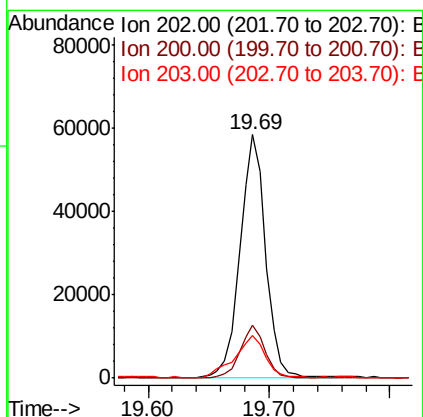
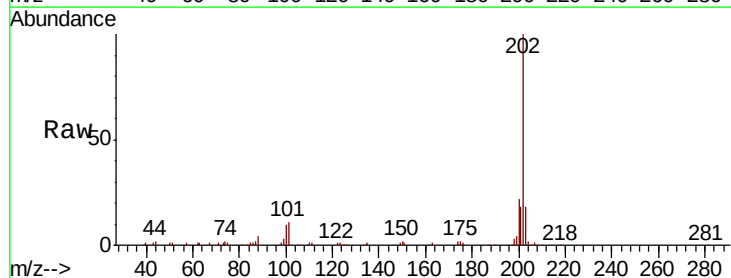
Instrument :  
 BNA\_G  
 ClientSampleId :

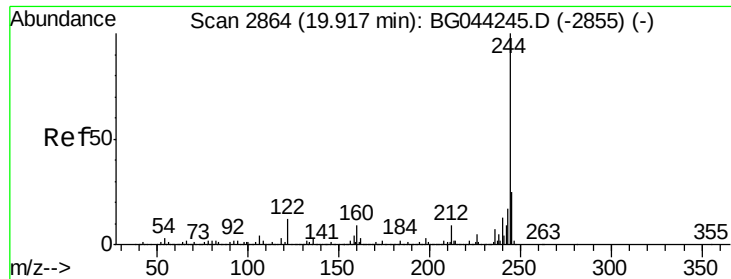
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 10.4  | 8.4   | 12.6  |
| 236     | 27.0  | 22.1  | 33.1  |



#78  
 Pyrene  
 Concen: 3.239 ng  
 RT: 19.69 min Scan# 2825  
 Delta R.T. -0.02 min  
 Lab File: BG044455.D  
 Acq: 17 Feb 2020 20:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 22.0  | 20.0  | 30.0  |
| 203     | 17.6  | 16.2  | 24.2  |





#79

Terphenyl-d14

Concen: 61.705 ng

RT: 19.89 min Scan# 2859

Delta R.T. -0.02 min

Lab File: BG044455.D

Acq: 17 Feb 2020 20:18

Instrument :

BNA\_G

ClientSampled :

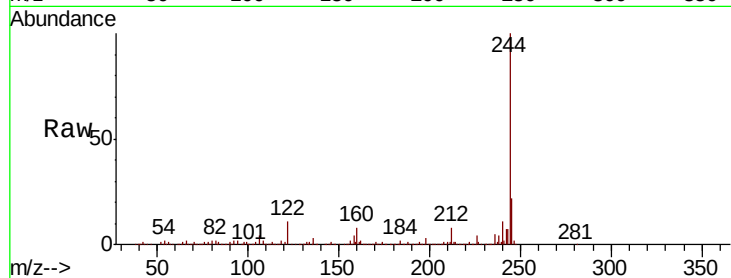
Tot Ion:244 Resp: 1255557

Ion Ratio Lower Upper

244 100

212 8.0 7.4 11.2

122 11.2 9.8 14.6

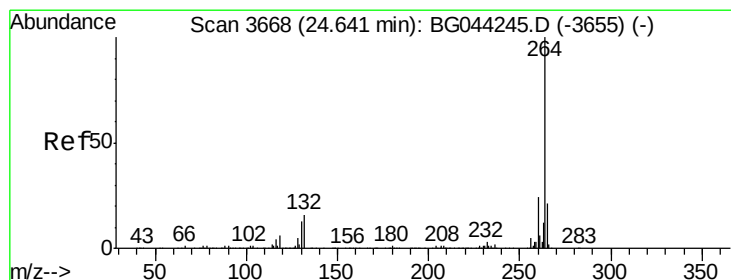
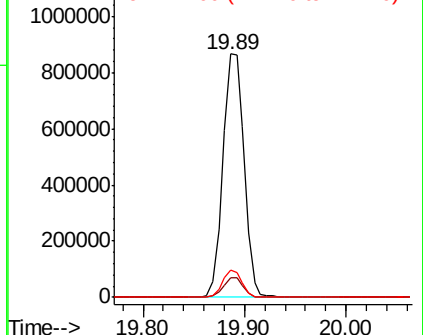
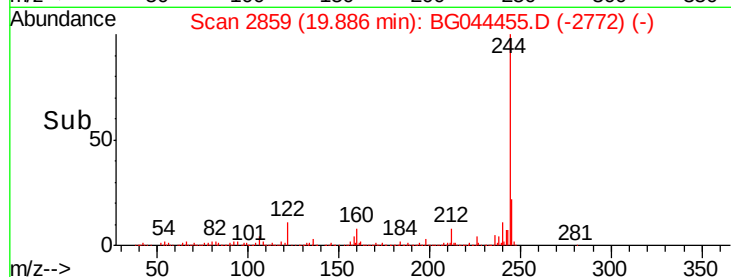


Abundance

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: 24.59 min Scan# 3660

Delta R.T. -0.03 min

Lab File: BG044455.D

Acq: 17 Feb 2020 20:18

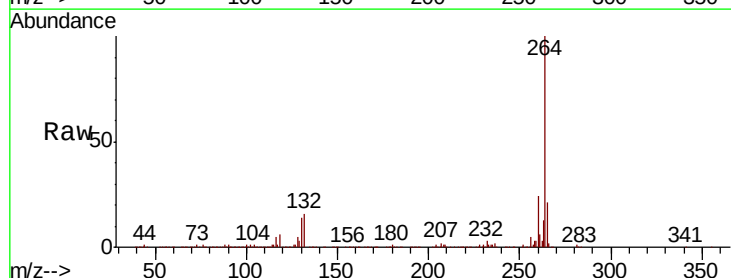
Tgt Ion:264 Resp: 450080

Ion Ratio Lower Upper

264 100

260 23.9 19.4 29.2

265 21.1 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

