

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG050720\  
 Data File : BG045282.D  
 Acq On : 7 May 2020 23:19  
 Operator : CG/JU  
 Sample : L2530-02  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: May 08 03:45:59 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG041520.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu May 07 12:51:10 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.98  | 152  | 55650    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.79 | 136  | 214305   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.62 | 164  | 157054   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.37 | 188  | 387679   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.64 | 240  | 398511   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 24.81 | 264  | 427034   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.55  | 112 | 409817  | 121.58 | ng | 0.00 |
| 7) Phenol-d6             | 7.14  | 99  | 504662  | 100.77 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 9.14  | 82  | 451910  | 96.22  | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 16.11 | 330 | 358822  | 147.89 | ng | 0.00 |
| 45) 2-Fluorobiphenyl     | 13.25 | 172 | 1053716 | 98.38  | ng | 0.00 |
| 79) Terphenyl-d14        | 19.98 | 244 | 1964280 | 107.43 | ng | 0.00 |

## Target Compounds

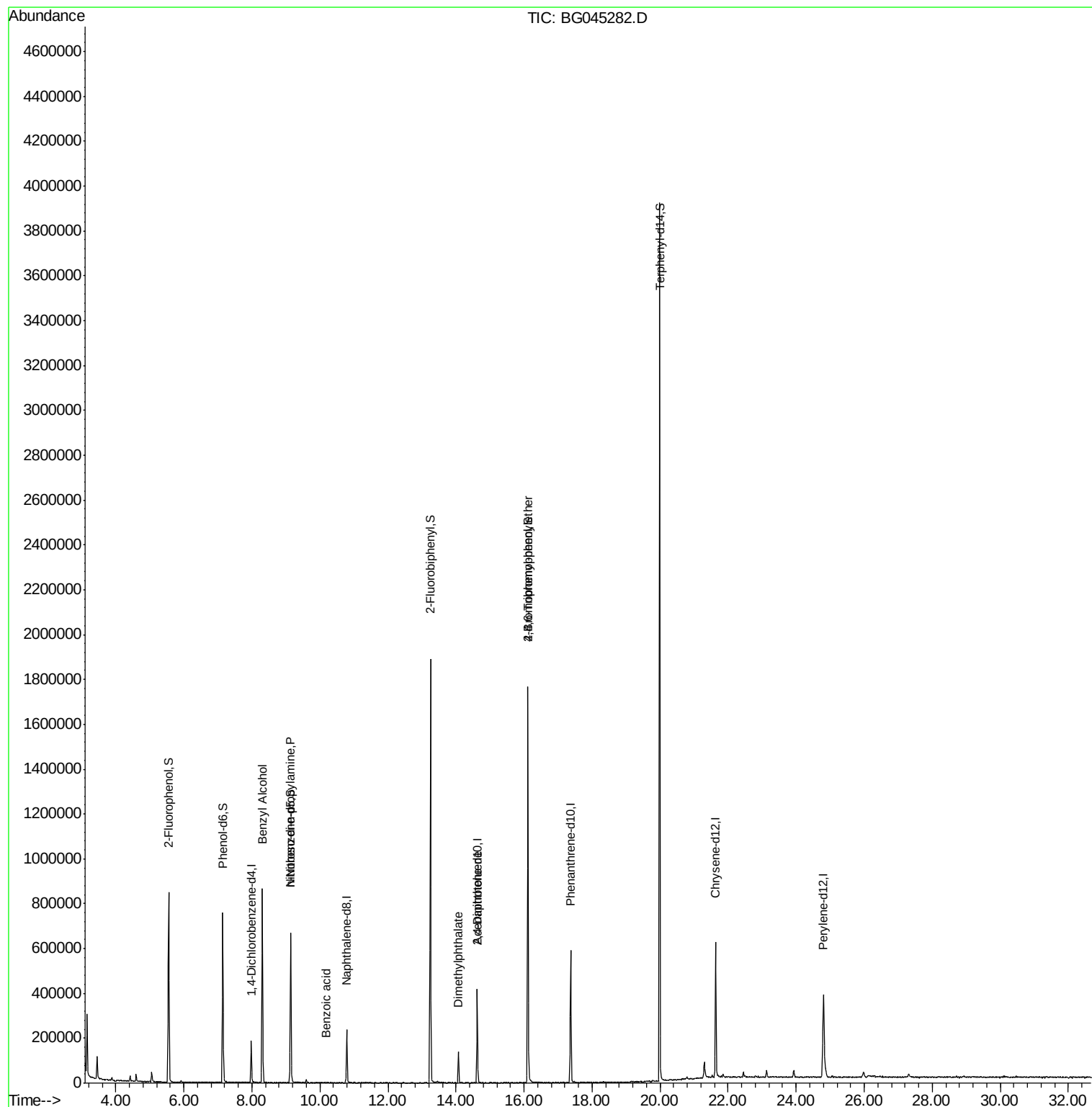
|                                |       |     |        |           |   | Qvalue |
|--------------------------------|-------|-----|--------|-----------|---|--------|
| 9) Benzaldehyde                | 7.16  | 77  | 943    | Below Cal | # | 4      |
| 15) Benzyl Alcohol             | 8.30  | 79  | 8542   | 2.034 ng  | # | 67     |
| 19) n-Nitroso-di-n-propylamine | 9.14  | 70  | 61747  | 17.434 ng | # | 79     |
| 32) Benzoic acid               | 10.20 | 122 | 59     | 6.393 ng  | # | 1      |
| 50) Dimethylphthalate          | 14.07 | 163 | 100611 | 7.868 ng  | # | 98     |
| 57) 2,4-Dinitrotoluene         | 14.62 | 165 | 21147  | 5.059 ng  | # | 22     |
| 67) 4-Bromophenyl-phenylether  | 16.11 | 248 | 24579  | 4.914 ng  | # | 1      |
| 74) Di-n-butylphthalate        | 18.34 | 149 | 2316   | Below Cal | # | 82     |
| 75) Fluoranthene               | 19.36 | 202 | 63     | Below Cal | # | 62     |
| 77) Benzidine                  | 19.62 | 184 | 2029   | Below Cal | # | 78     |

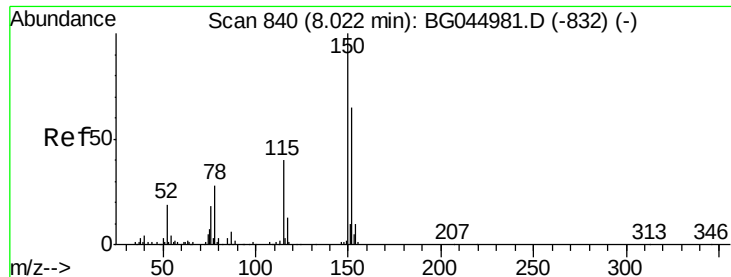
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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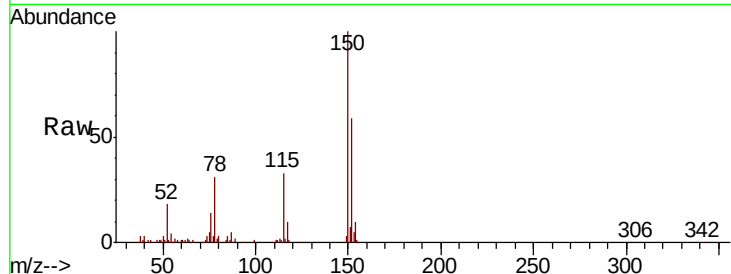


#1

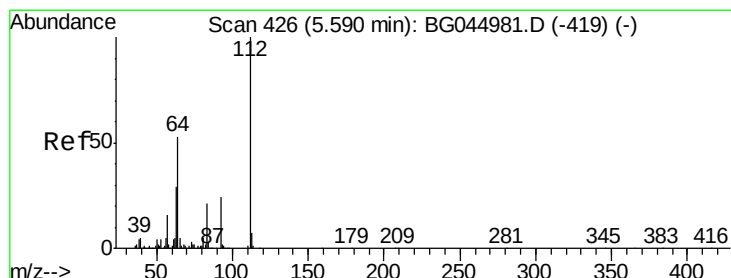
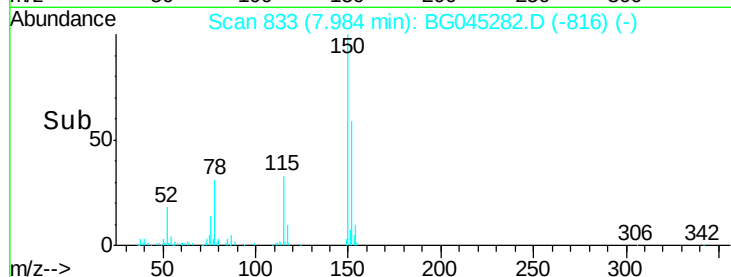
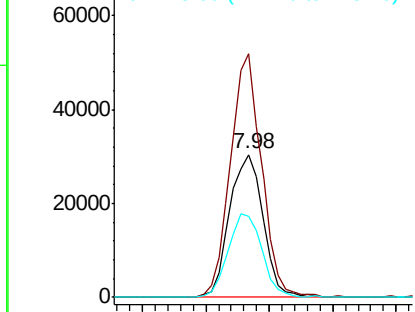
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.98 min Scan# 833  
Delta R.T. 0.00 min  
Lab File: BG045282.D  
Acq: 7 May 2020 23:19

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 170.1 | 123.6 | 185.4 |
| 115     | 56.7  | 49.1  | 73.7  |



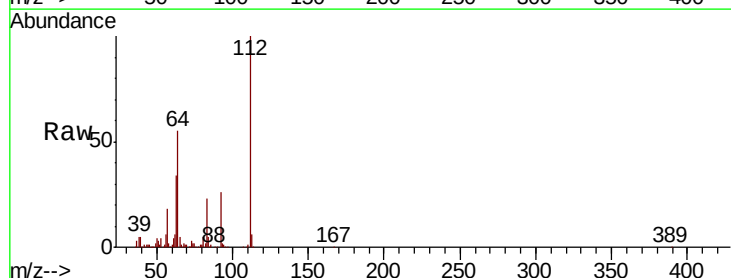
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



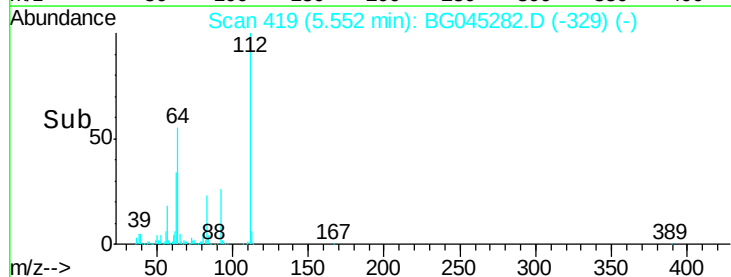
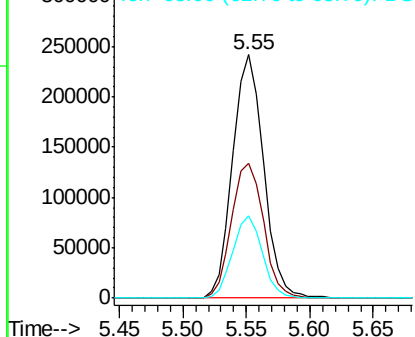
#5

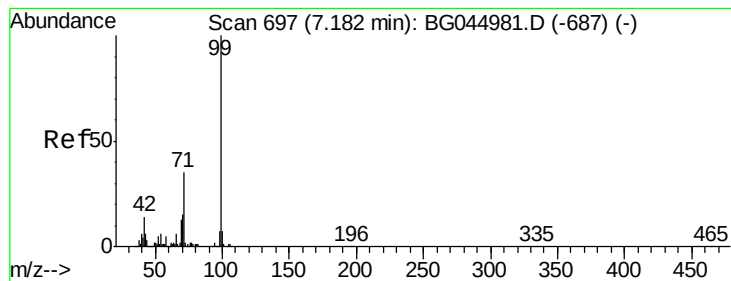
2-Fluorophenol  
Concen: 121.579 ng  
RT: 5.55 min Scan# 419  
Delta R.T. 0.00 min  
Lab File: BG045282.D  
Acq: 7 May 2020 23:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 55.3  | 42.4  | 63.6  |
| 63      | 34.0  | 23.1  | 34.7  |



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: 100.768 ng

RT: 7.14 min Scan# 690

Delta R.T. -0.01 min

Lab File: BG045282.D

Acq: 7 May 2020 23:19

Instrument :

BNA\_G

ClientSampled :

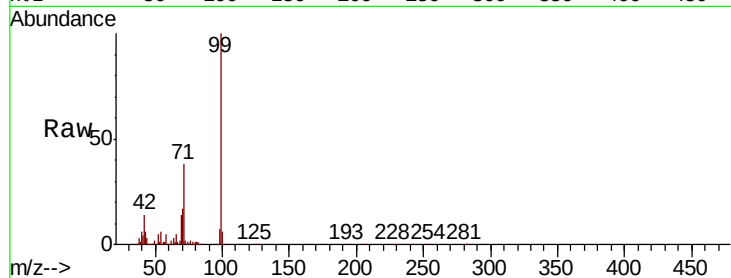
Tot Ion: 99 Resp: 504662

Ion Ratio Lower Upper

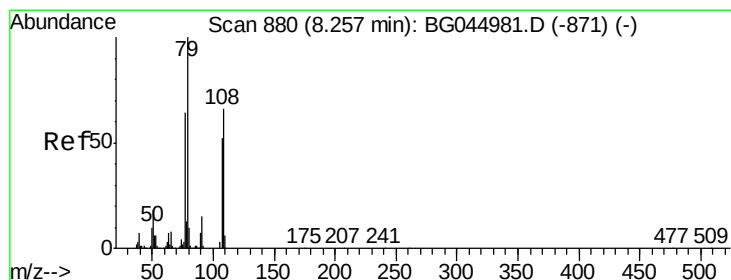
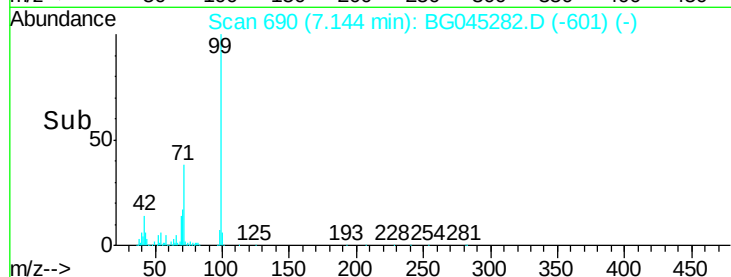
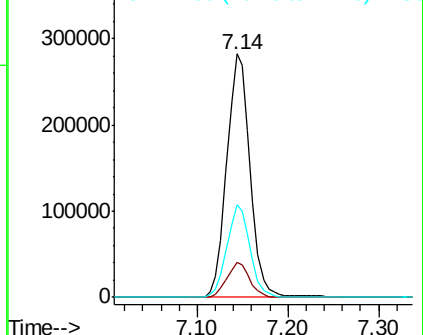
99 100

42 14.5 11.3 16.9

71 37.8 28.3 42.5



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: 2.034 ng

RT: 8.30 min Scan# 887

Delta R.T. 0.08 min

Lab File: BG045282.D

Acq: 7 May 2020 23:19

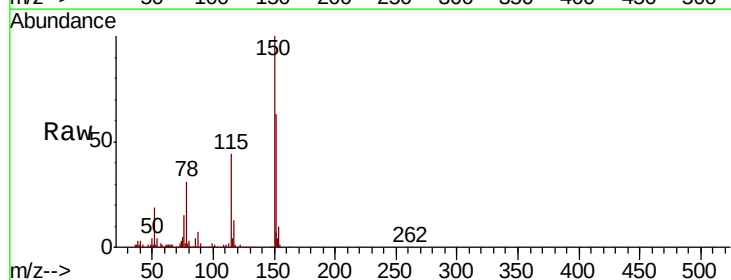
Tgt Ion: 79 Resp: 8542

Ion Ratio Lower Upper

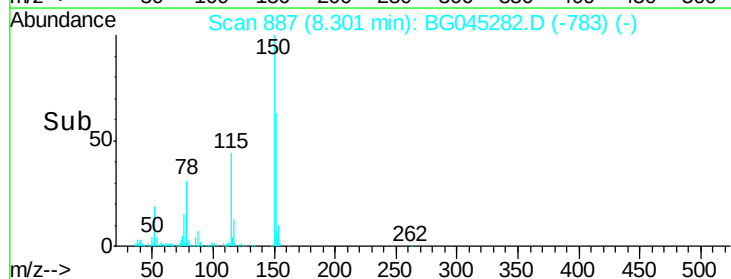
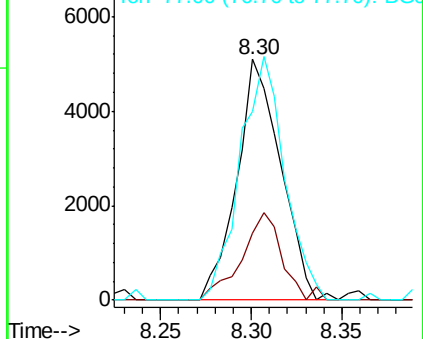
79 100

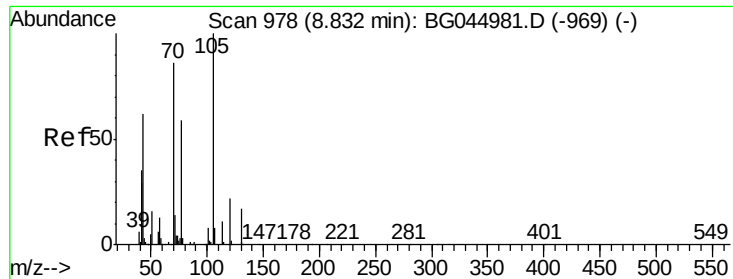
108 27.6 52.7 79.1#

77 78.2 51.3 76.9#



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

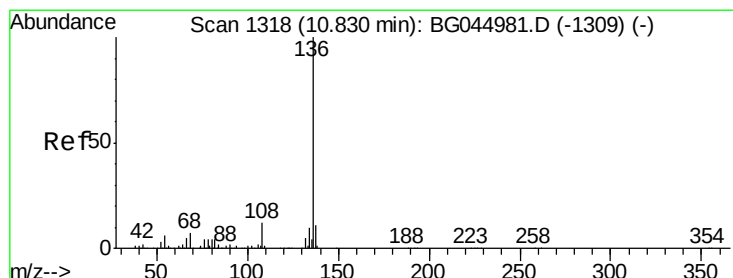
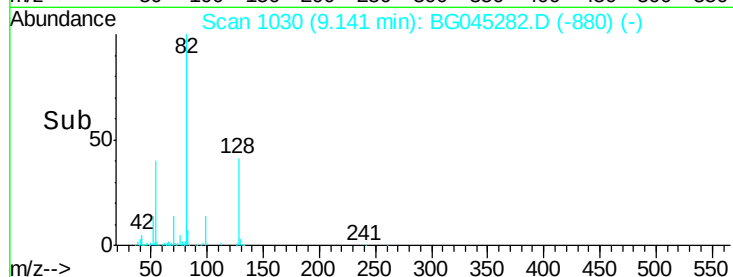
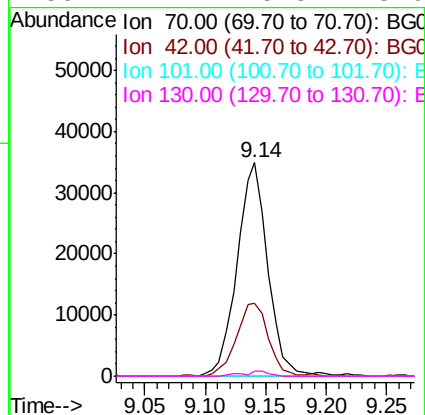
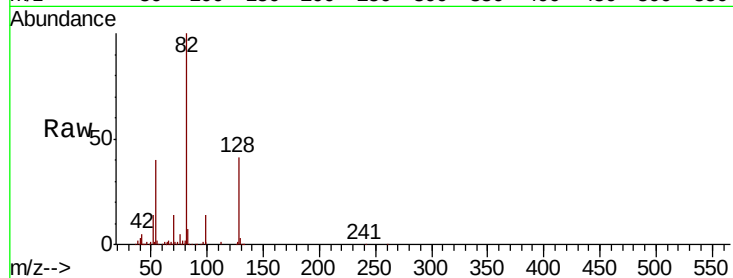




#19  
n-Nitroso-di-n-propylamine  
Concen: 17.434 ng  
RT: 9.14 min Scan# 1030  
Delta R.T. 0.35 min  
Lab File: BG045282.D  
Acq: 7 May 2020 23:19

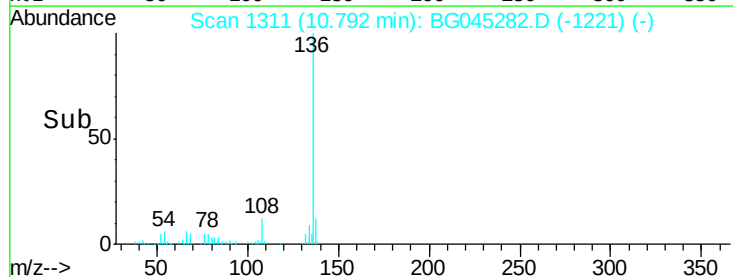
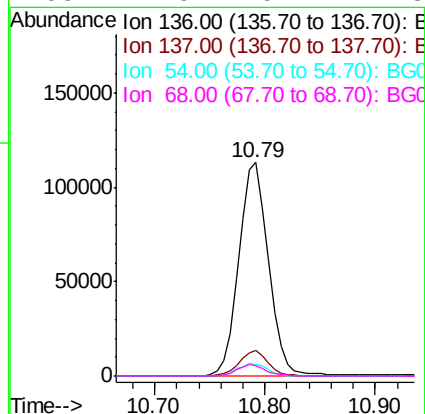
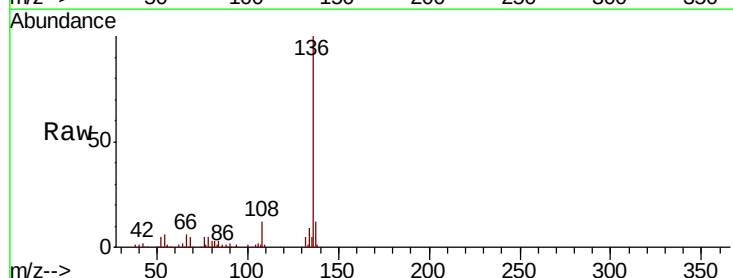
Instrument :  
BNA\_G  
ClientSampleId :

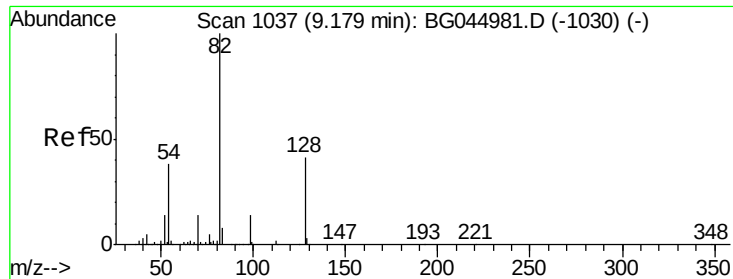
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 70    | Resp: | 61747 |
| Ion      | Ratio | Lower | Upper |
| 70       | 100   |       |       |
| 42       | 34.4  | 33.3  | 49.9  |
| 101      | 0.0   | 7.8   | 11.8# |
| 130      | 2.4   | 15.8  | 23.6# |



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.79 min Scan# 1311  
Delta R.T. 0.00 min  
Lab File: BG045282.D  
Acq: 7 May 2020 23:19

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 214305 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 12.1  | 8.6   | 13.0   |
| 54       | 5.7   | 4.8   | 7.2    |
| 68       | 4.9   | 5.2   | 7.8#   |

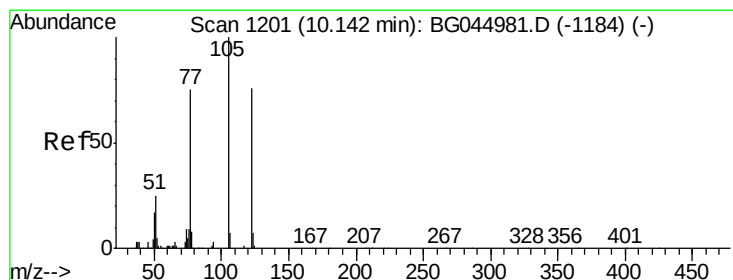
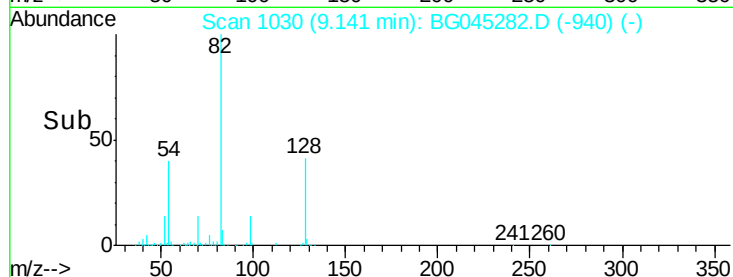
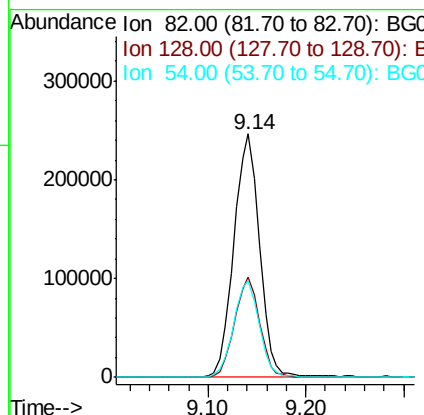
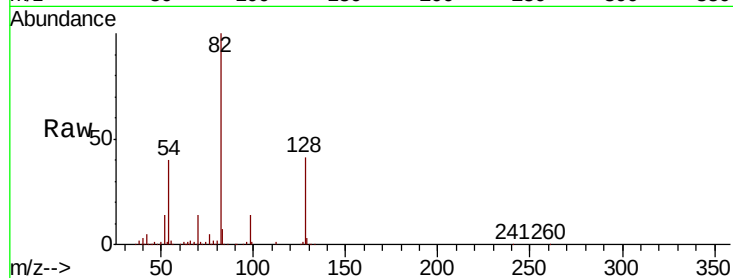




#23  
Nitrobenzene-d5  
Concen: 96.219 ng  
RT: 9.14 min Scan# 1030  
Delta R.T. 0.00 min  
Lab File: BG045282.D  
Acq: 7 May 2020 23:19

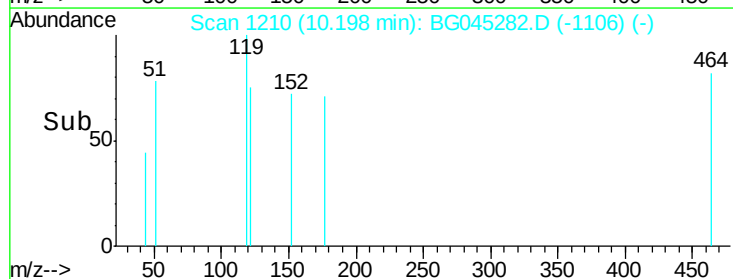
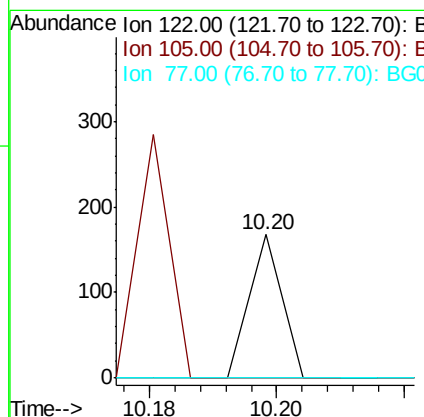
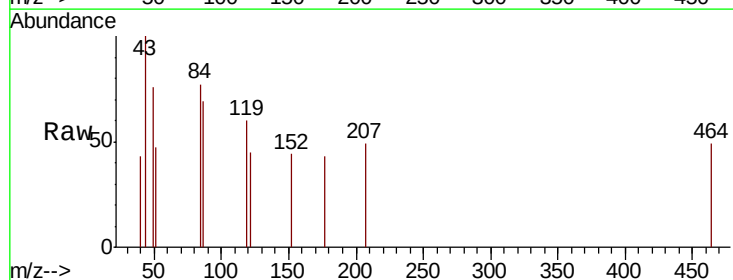
Instrument :  
BNA\_G  
ClientSampleId :

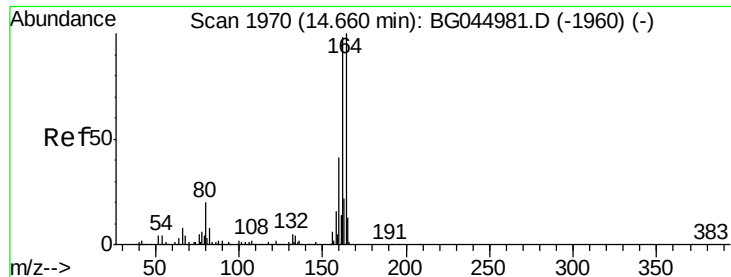
| Tot Ion   | 82.00 | Resp  | 451910 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 41.1  | 33.0  | 49.4   |
| 54        | 39.8  | 30.4  | 45.6   |



#32  
Benzoic acid  
Concen: 6.393 ng  
RT: 10.20 min Scan# 1210  
Delta R.T. 0.08 min  
Lab File: BG045282.D  
Acq: 7 May 2020 23:19

| Tgt Ion   | 122   | Resp  | 59     |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 122       | 100   |       |        |
| 105       | 0.0   | 108.4 | 148.4# |
| 77        | 0.0   | 78.8  | 118.8# |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.62 min Scan# 1963

Delta R.T. -0.01 min

Lab File: BG045282.D

Acq: 7 May 2020 23:19

Instrument :

BNA\_G

ClientSampleId :

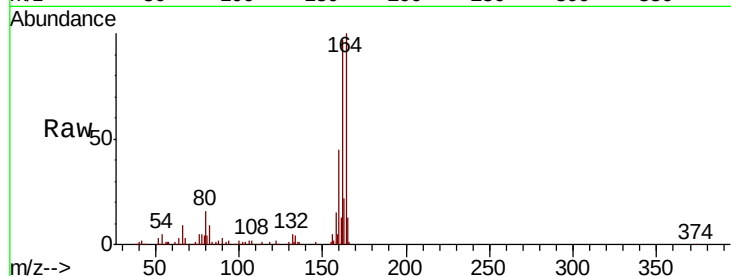
Tot Ion:164 Resp: 157054

Ion Ratio Lower Upper

164 100

162 96.6 78.7 118.1

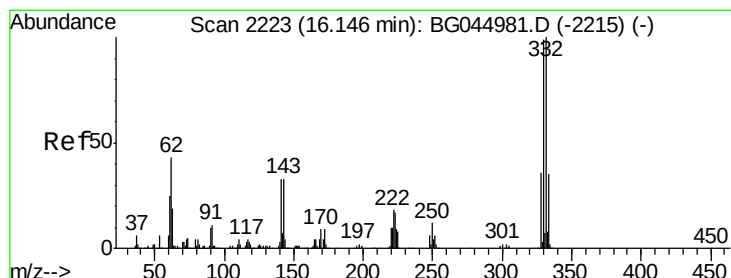
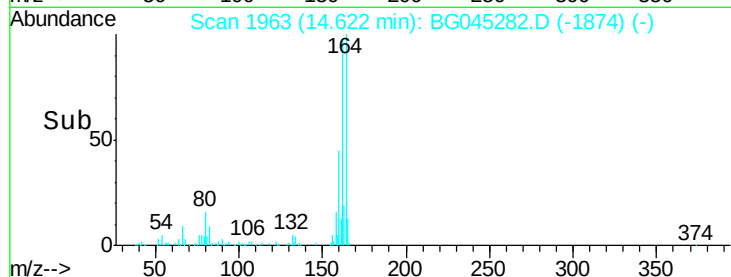
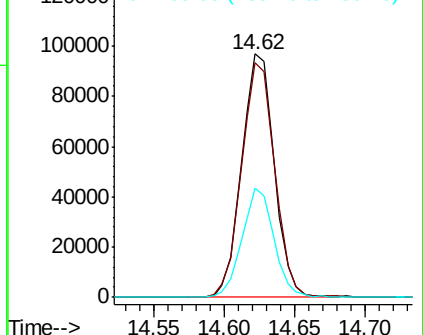
160 44.8 32.8 49.2



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: 147.890 ng

RT: 16.11 min Scan# 2217

Delta R.T. -0.01 min

Lab File: BG045282.D

Acq: 7 May 2020 23:19

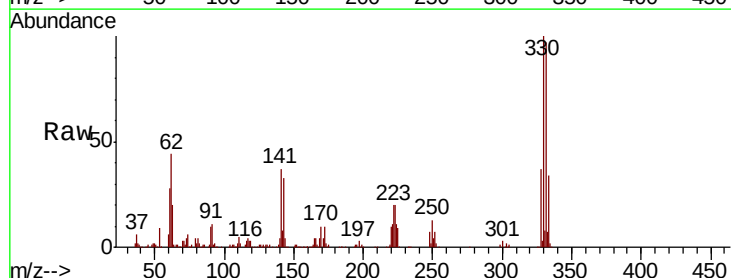
Tgt Ion:330 Resp: 358822

Ion Ratio Lower Upper

330 100

332 98.1 79.1 118.7

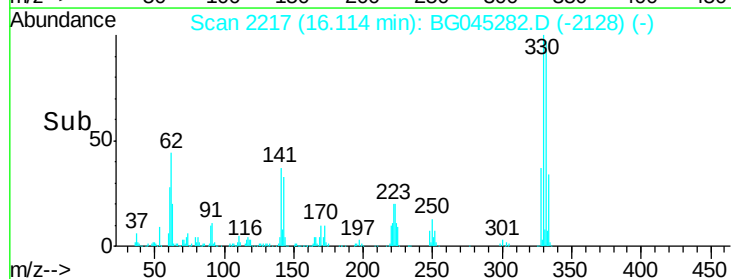
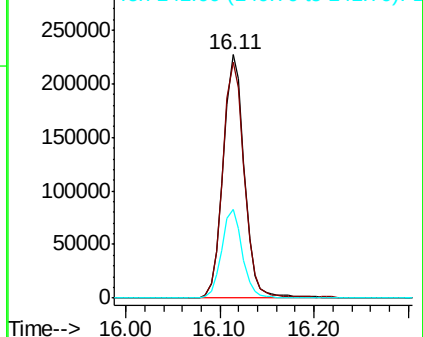
141 35.8 27.1 40.7

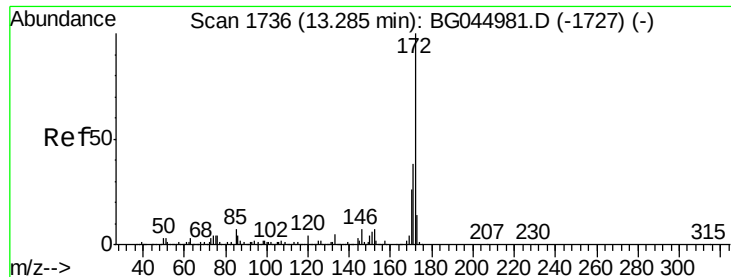


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

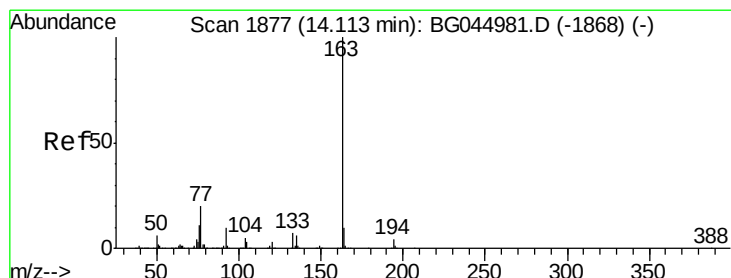
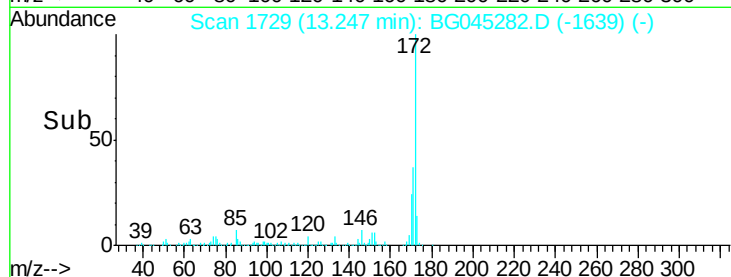
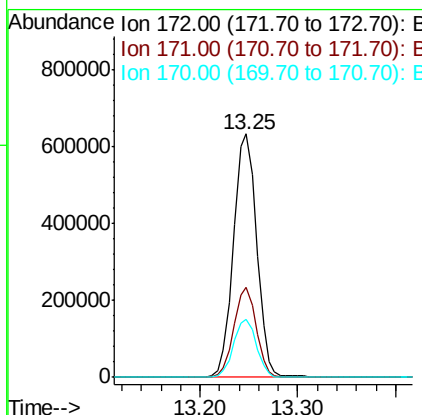
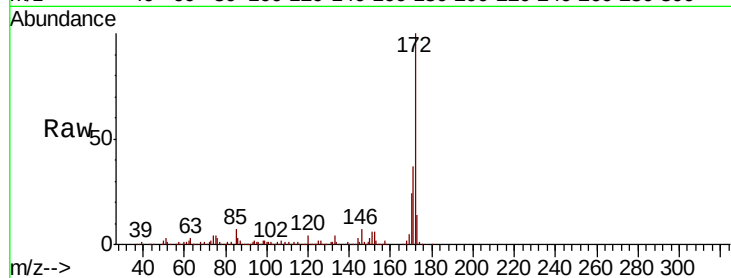




#45  
2-Fluorobiphenyl  
Concen: 98.379 ng  
RT: 13.25 min Scan# 1729  
Delta R.T. 0.00 min  
Lab File: BG045282.D  
Acq: 7 May 2020 23:19

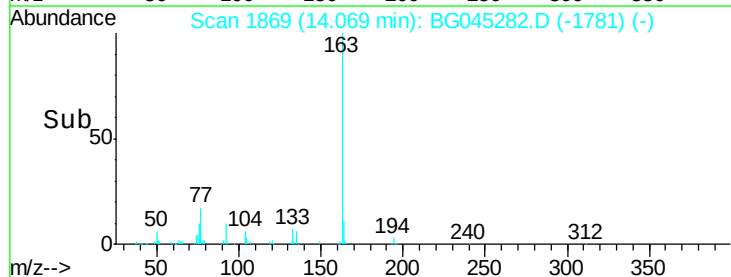
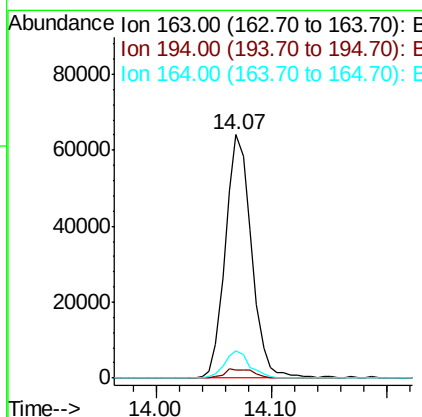
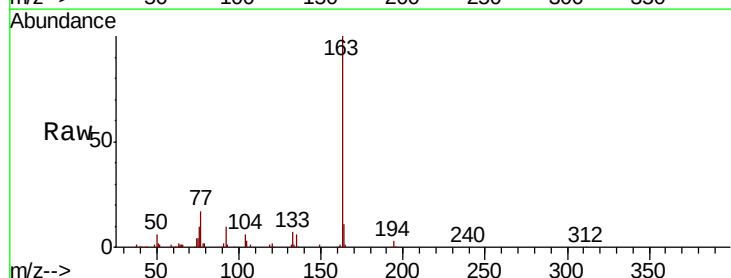
Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:172 Resp: 1053716  
Ion Ratio Lower Upper  
172 100  
171 36.9 30.6 46.0  
170 23.6 20.5 30.7

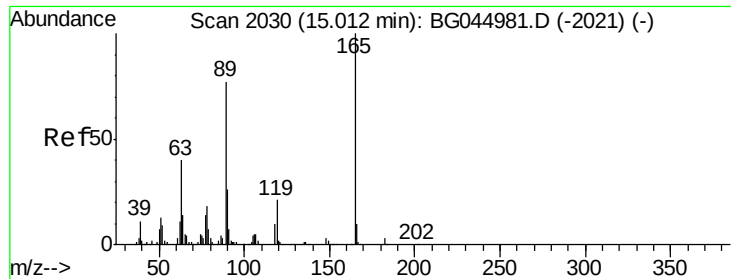


#50  
Dimethylphthalate  
Concen: 7.868 ng  
RT: 14.07 min Scan# 1869  
Delta R.T. -0.01 min  
Lab File: BG045282.D  
Acq: 7 May 2020 23:19

Tgt Ion:163 Resp: 100611  
Ion Ratio Lower Upper  
163 100  
194 3.3 3.5 5.3#  
164 11.0 8.2 12.4







#57

2,4-Dinitrotoluene

Concen: 5.059 ng

RT: 14.62 min Scan# 1963

Delta R.T. -0.36 min

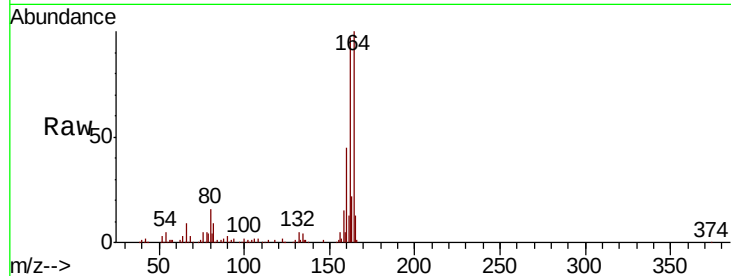
Lab File: BG045282.D

Acq: 7 May 2020 23:19

Instrument :

BNA\_G

ClientSampleId :



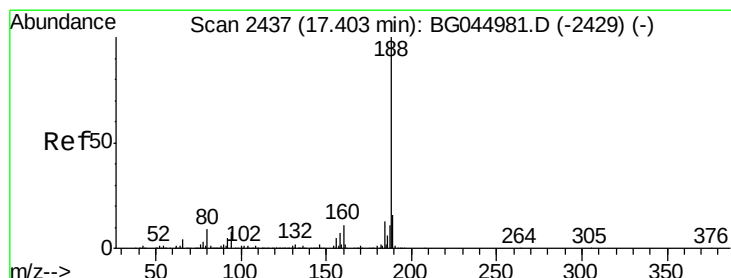
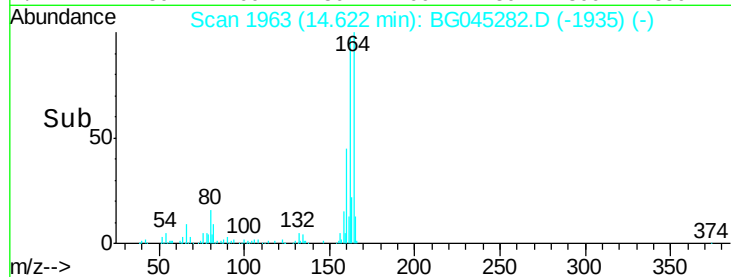
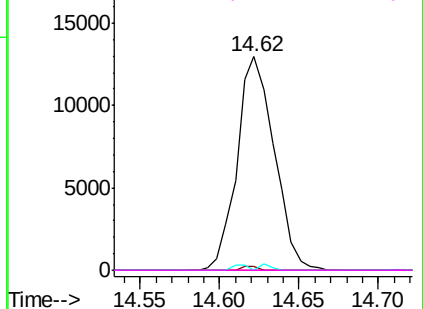
|             |       |            |
|-------------|-------|------------|
| Tot Ion:165 | Resp: | 21147      |
| Ion Ratio   | Lower | Upper      |
| 165         | 100   |            |
| 63          | 1.8   | 32.2 48.2# |
| 89          | 0.0   | 61.7 92.5# |
| 182         | 0.0   | 2.0 3.0#   |

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: 17.37 min Scan# 2431

Delta R.T. -0.01 min

Lab File: BG045282.D

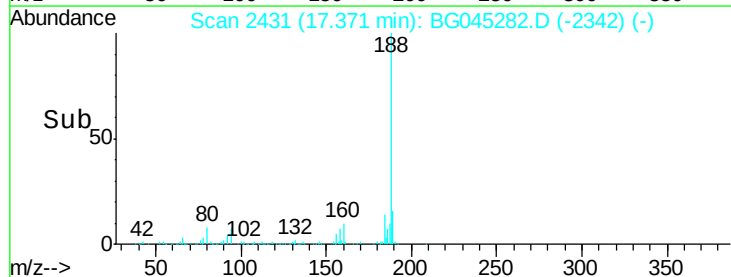
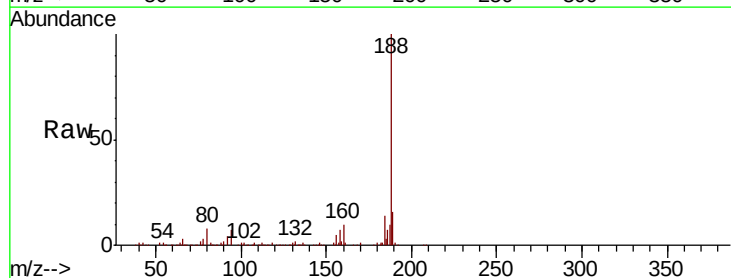
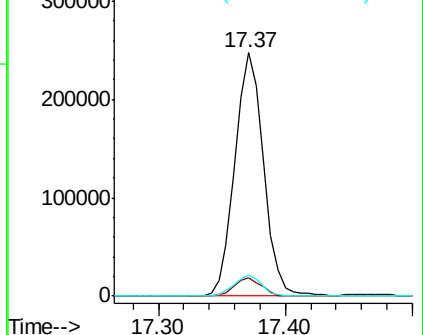
Acq: 7 May 2020 23:19

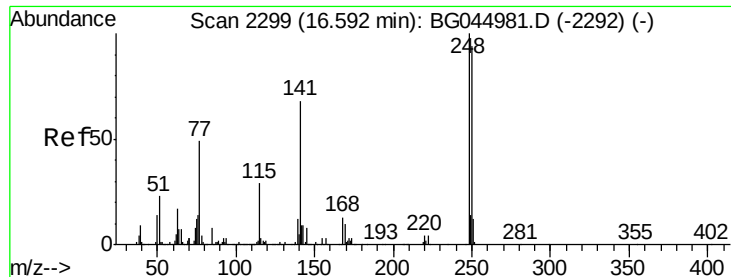
|             |       |          |
|-------------|-------|----------|
| Tgt Ion:188 | Resp: | 387679   |
| Ion Ratio   | Lower | Upper    |
| 188         | 100   |          |
| 94          | 7.4   | 6.2 9.4  |
| 80          | 8.3   | 7.0 10.6 |

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

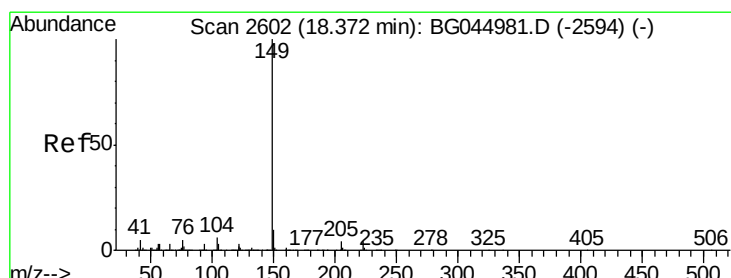
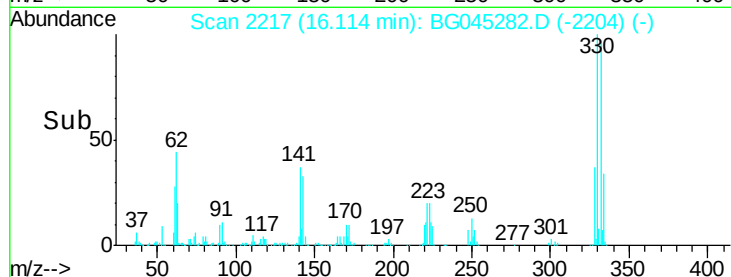
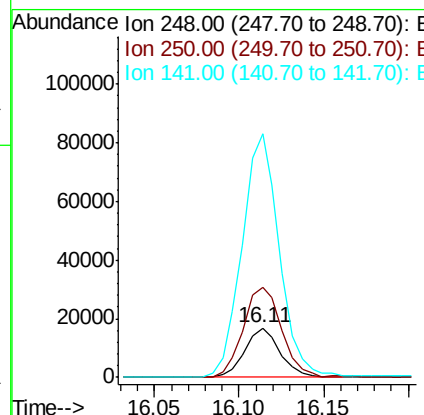
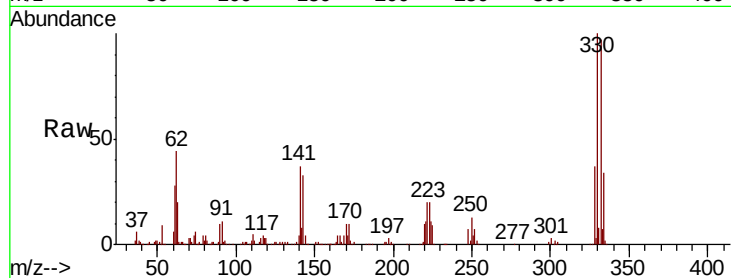




#67  
 4-Bromophenyl-phenylether  
 Concen: 4.914 ng  
 RT: 16.11 min Scan# 2217  
 Delta R.T. -0.45 min  
 Lab File: BG045282.D  
 Acq: 7 May 2020 23:19

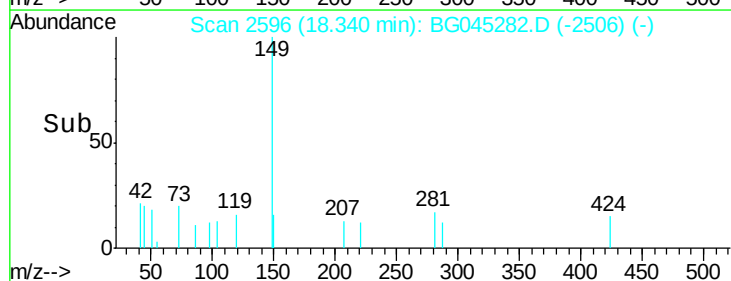
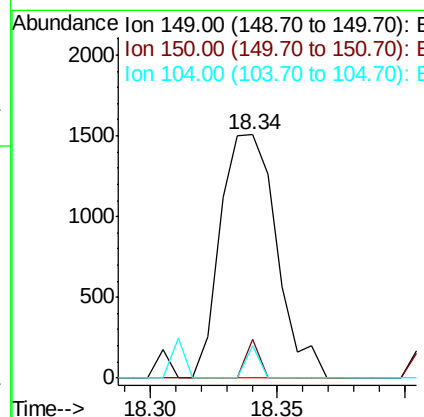
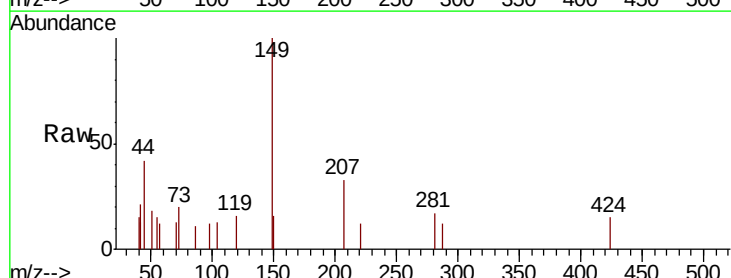
Instrument :  
 BNA\_G  
 ClientSampleId :

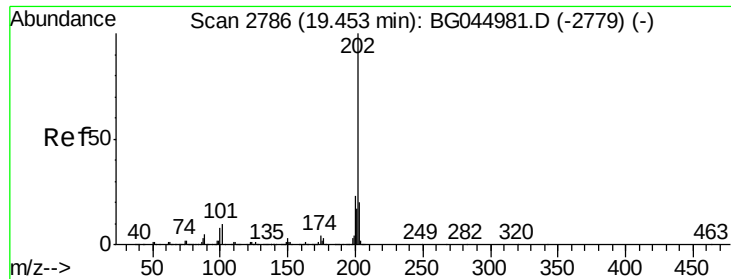
Tot Ion:248 Resp: 24579  
 Ion Ratio Lower Upper  
 248 100  
 250 180.7 75.4 113.2#  
 141 490.4 54.4 81.6#



#74  
 Di-n-butylphthalate  
 Concen: Below Cal  
 RT: 18.34 min Scan# 2596  
 Delta R.T. 0.00 min  
 Lab File: BG045282.D  
 Acq: 7 May 2020 23:19

Tgt Ion:149 Resp: 2316  
 Ion Ratio Lower Upper  
 149 100  
 150 16.1 8.2 12.2#  
 104 13.1 4.8 7.2#

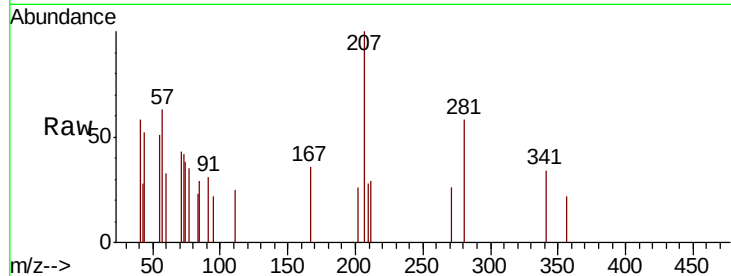




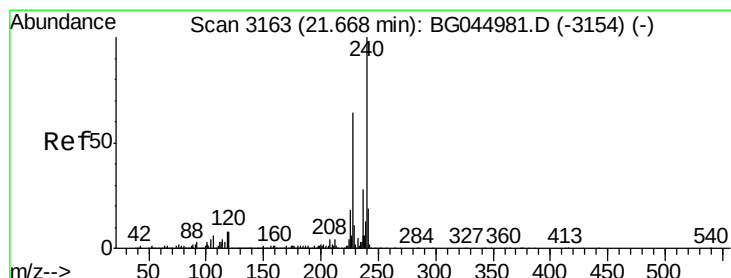
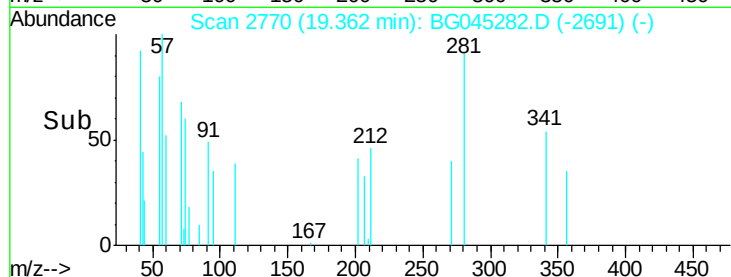
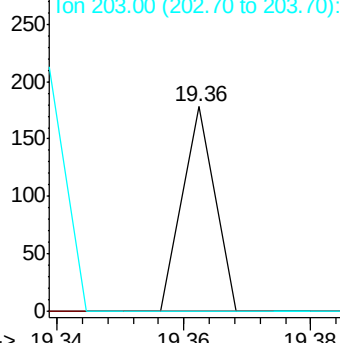
#75  
Fluoranthene  
Concen: Below Cal  
RT: 19.36 min Scan# 2770  
Delta R.T. -0.06 min  
Lab File: BG045282.D  
Acq: 7 May 2020 23:19

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 0.0   | 0.0   | 29.6  |
| 203     | 0.0   | 0.0   | 39.7  |

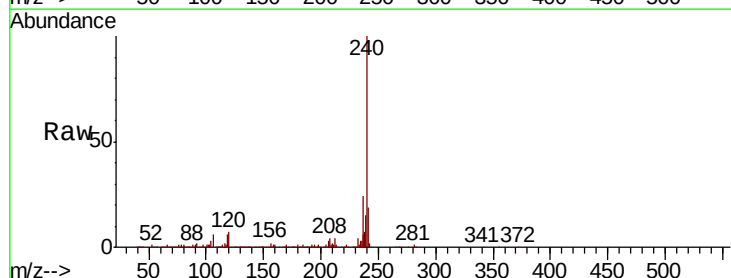


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E

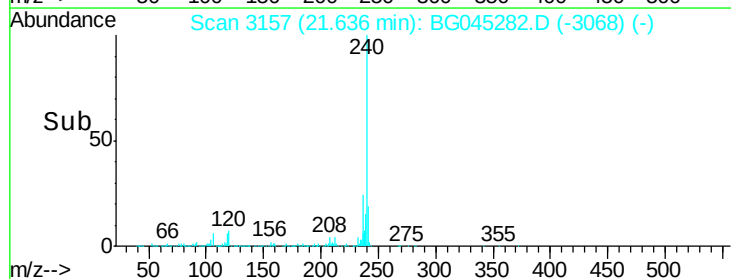
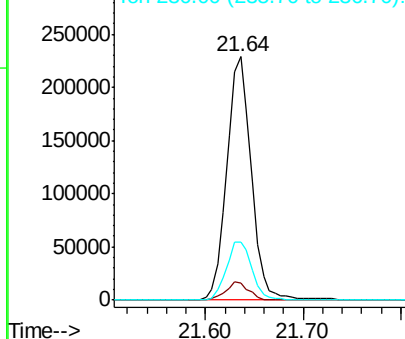


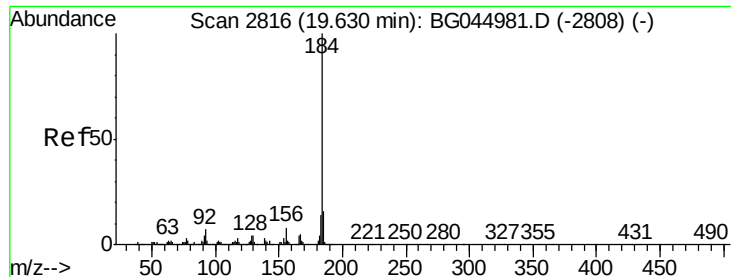
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.64 min Scan# 3157  
Delta R.T. -0.01 min  
Lab File: BG045282.D  
Acq: 7 May 2020 23:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 7.2   | 6.6   | 10.0  |
| 236     | 23.9  | 22.2  | 33.2  |



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





#77

Benzidine

Concen: Below Cal

RT: 19.62 min Scan# 2814

Delta R.T. 0.02 min

Lab File: BG045282.D

Acq: 7 May 2020 23:19

Instrument :

BNA\_G

ClientSampled :

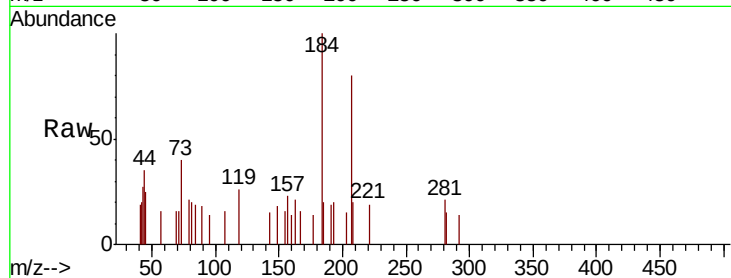
Tot Ion:184 Resp: 2029

Ion Ratio Lower Upper

184 100

185 20.1 12.6 19.0#

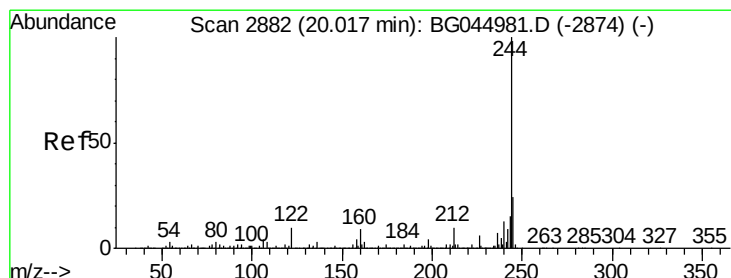
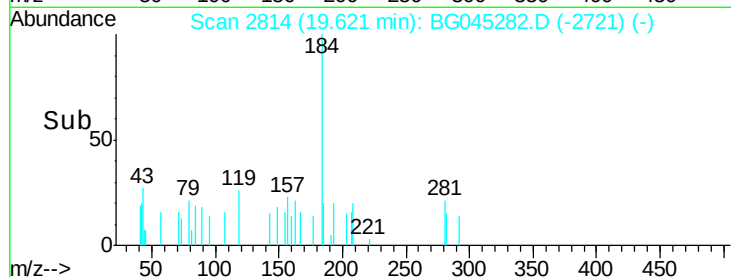
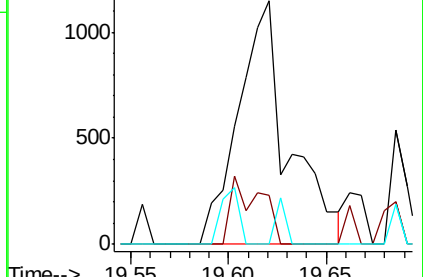
183 0.0 11.3 16.9#



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: 107.432 ng

RT: 19.98 min Scan# 2876

Delta R.T. -0.01 min

Lab File: BG045282.D

Acq: 7 May 2020 23:19

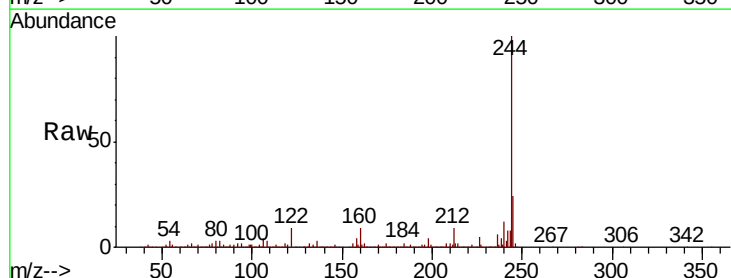
Tgt Ion:244 Resp: 1964280

Ion Ratio Lower Upper

244 100

212 9.5 7.9 11.9

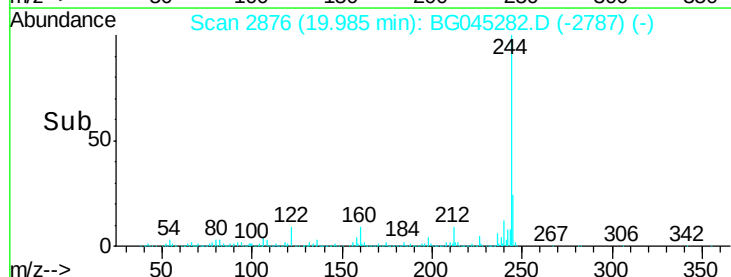
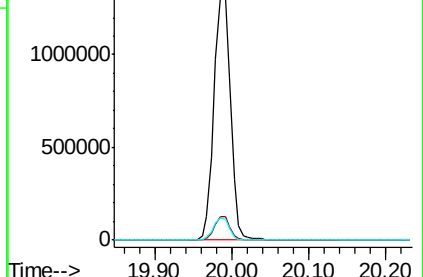
122 9.3 7.7 11.5

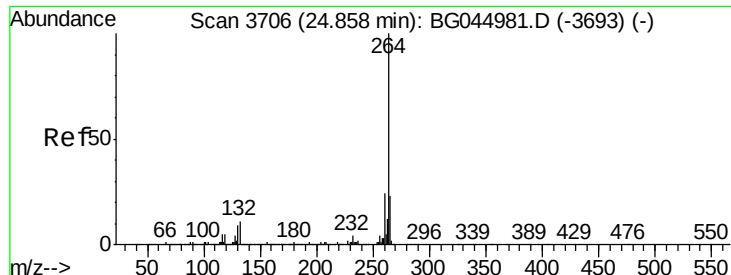


Abundance Ion 244.00 (243.70 to 244.70): E

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: 24.81 min Scan# 3697  
Delta R.T. -0.01 min  
Lab File: BG045282.D  
Acq: 7 May 2020 23:19

Instrument :  
BNA\_G  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 264   | Resp: | 427034 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 22.3  | 19.2  | 28.8   |
| 265      | 21.6  | 19.0  | 28.4   |

