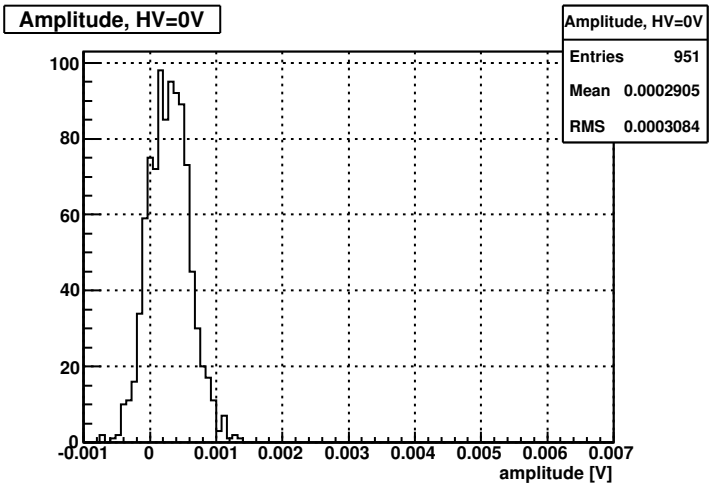
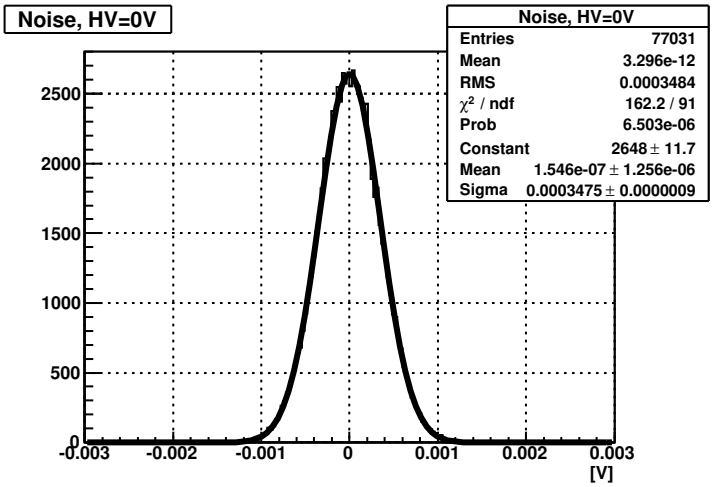
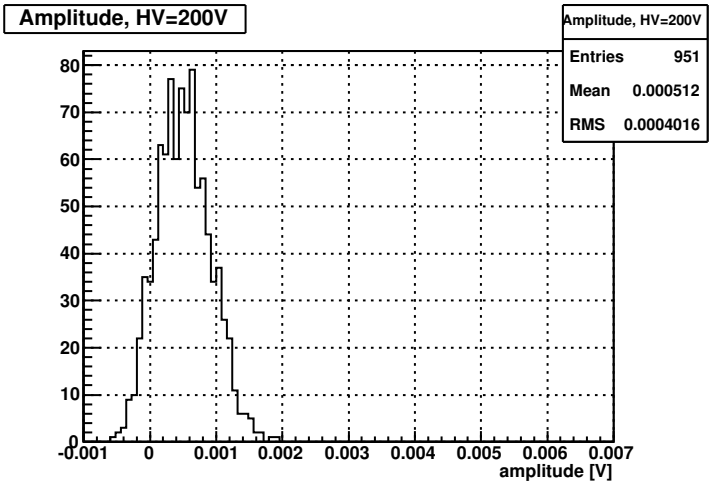
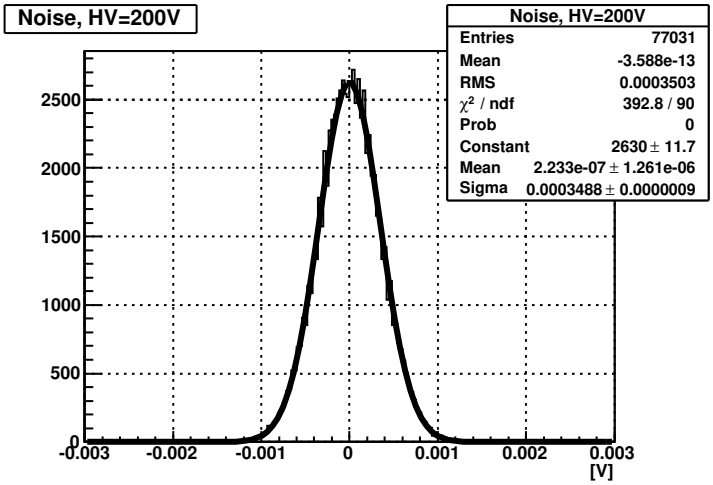
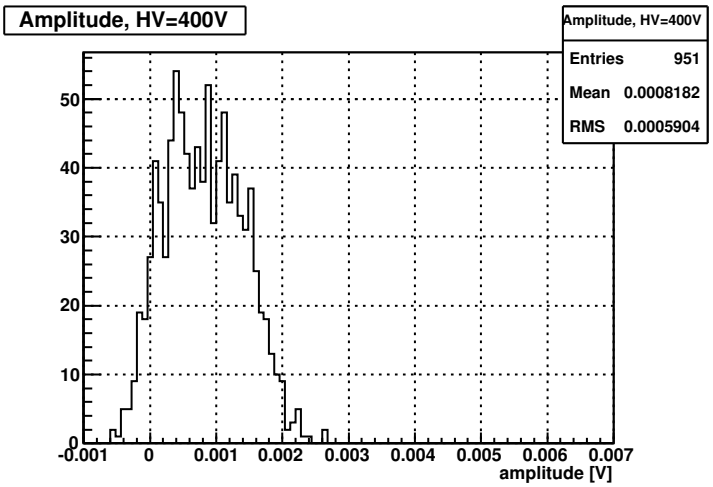
Fotec Box 408 (A382-11 and A382-8), Measurement 1 (BWL 200MHz)

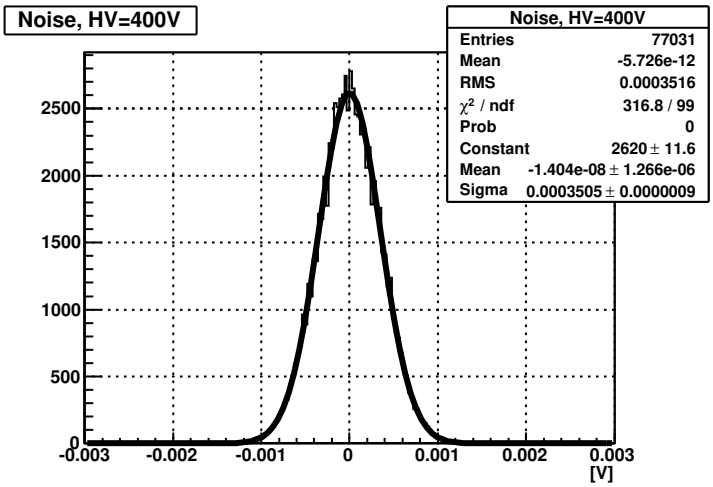


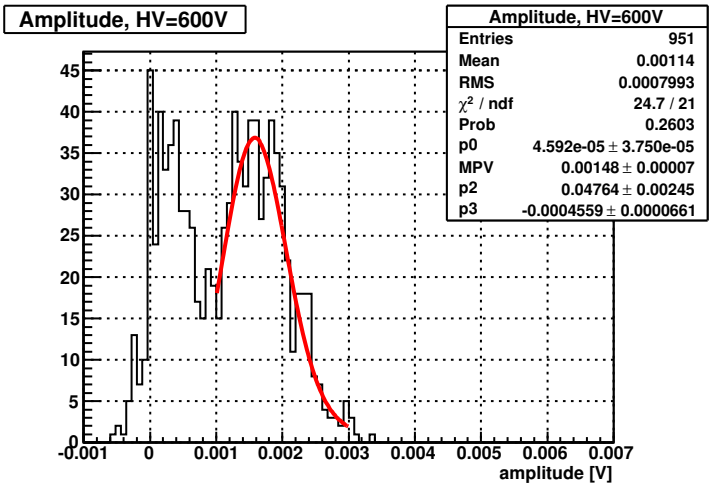


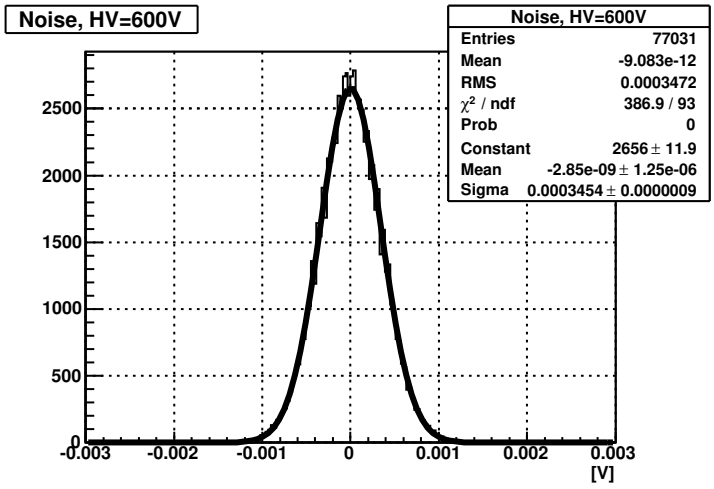


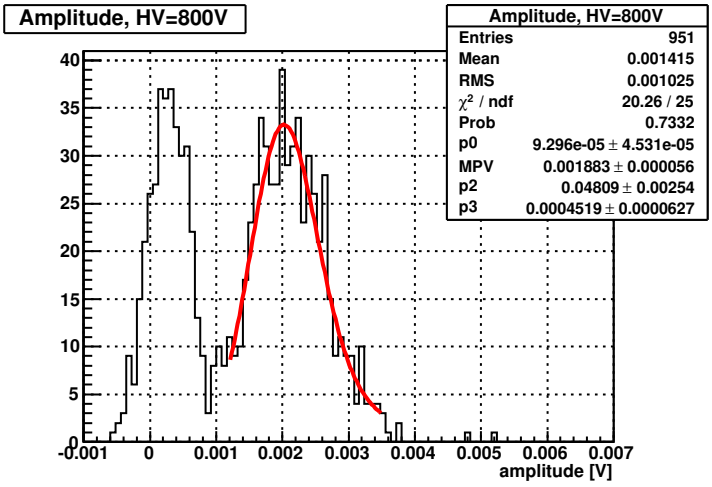


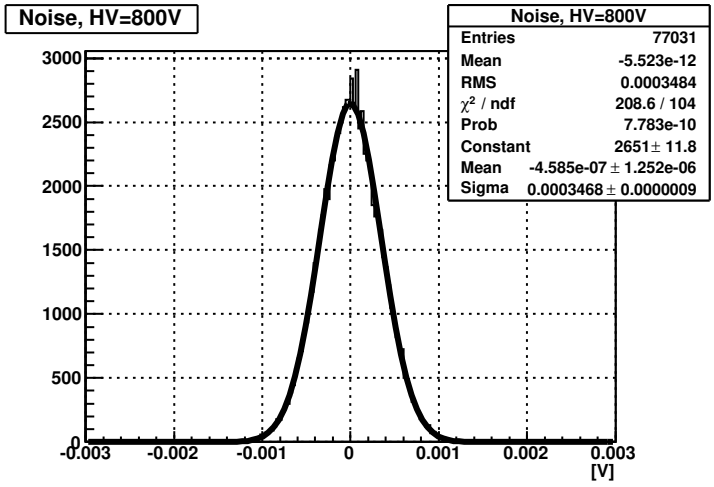


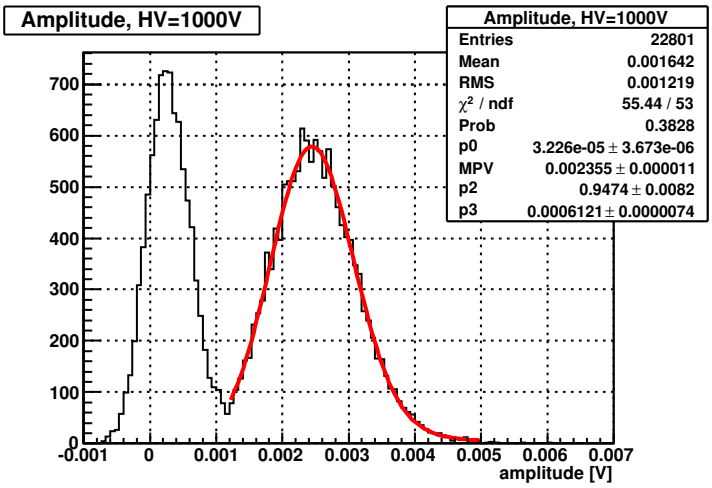


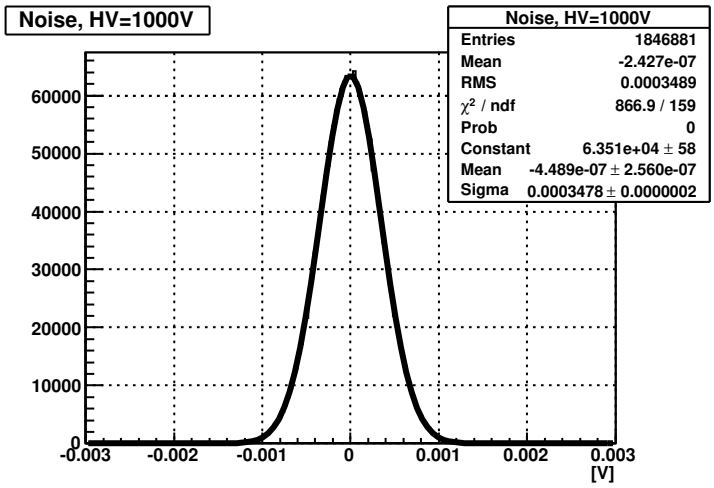

Amplitude, HV=600V
Amplitude, HV=600V
Entries 951
Mean 0.00114
RMS 0.0007993
χ² / ndf 24.7 / 21
Prob 0.2603
p0 4.592e-05 ± 3.750e-05
MPV 0.00148 ± 0.00007
p2 0.04764 ± 0.00245
p3 -0.0004559 ± 0.0000661
amplitude [V]


Noise, HV=600V
Noise, HV=600V
Entries 77031
Mean -9.083e-12
RMS 0.0003472
χ² / ndf 386.9 / 93
Prob 0
Constant 2656 ± 11.9
Mean -2.85e-09 ± 1.25e-06
Sigma 0.0003454 ± 0.0000009
[V]

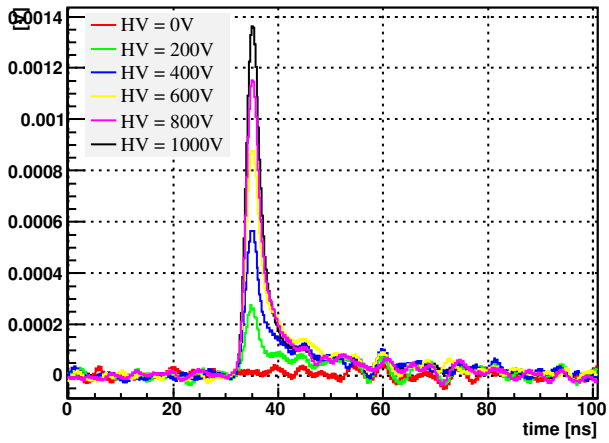

Amplitude, HV=800V
Amplitude, HV=800V
Entries 951
Mean 0.001415
RMS 0.001025
χ² / ndf 20.26 / 25
Prob 0.7332
p0 9.296e-05 ± 4.531e-05
MPV 0.001883 ± 0.000056
p2 0.04809 ± 0.00254
p3 0.0004519 ± 0.0000627
amplitude [V]

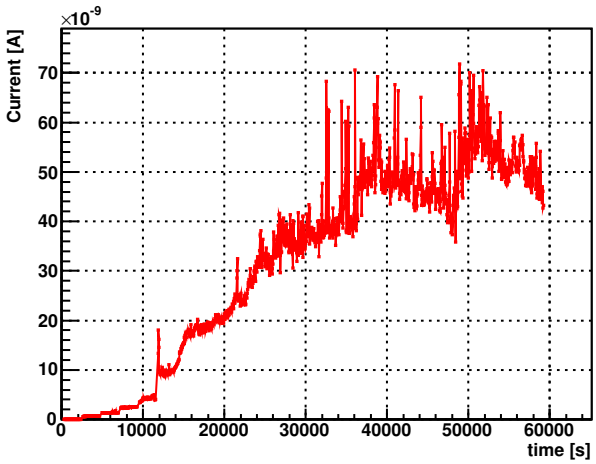

Noise, HV=800V
Noise, HV=800V
Entries 77031
Mean -5.523e-12
RMS 0.0003484
χ² / ndf 208.6 / 104
Prob 7.783e-10
Constant 2651 ± 11.8
Mean -4.585e-07 ± 1.252e-06
Sigma 0.0003468 ± 0.0000009
[V]


Amplitude, HV=1000V
Amplitude, HV=1000V
Entries 22801
Mean 0.001642
RMS 0.001219
χ² / ndf 55.44 / 53
Prob 0.3828
p0 3.226e-05 ± 3.673e-06
MPV 0.002355 ± 0.000011
p2 0.9474 ± 0.0082
p3 0.0006121 ± 0.0000074
amplitude [V]

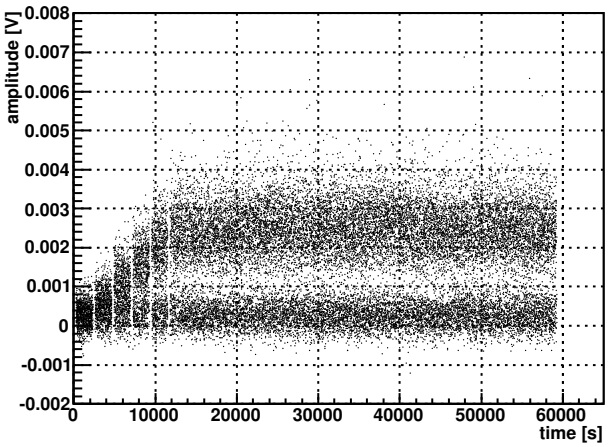

Noise, HV=1000V
Noise, HV=1000V
Entries 1846881
Mean -2.427e-07
RMS 0.0003489
χ² / ndf 866.9 / 159
Prob 0
Constant 6.351e+04 ± 58
Mean -4.489e-07 ± 2.560e-07
Sigma 0.0003478 ± 0.0000002
[V]

Average event

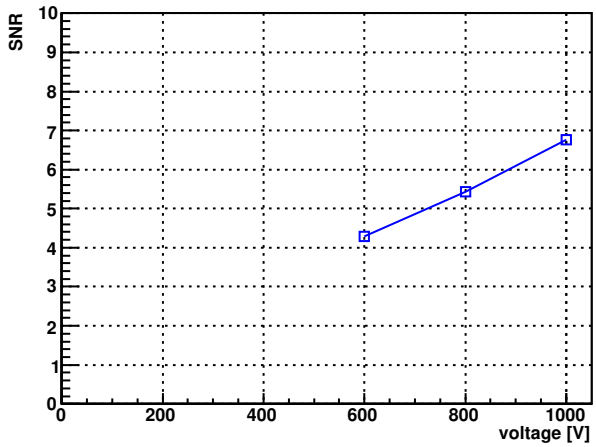




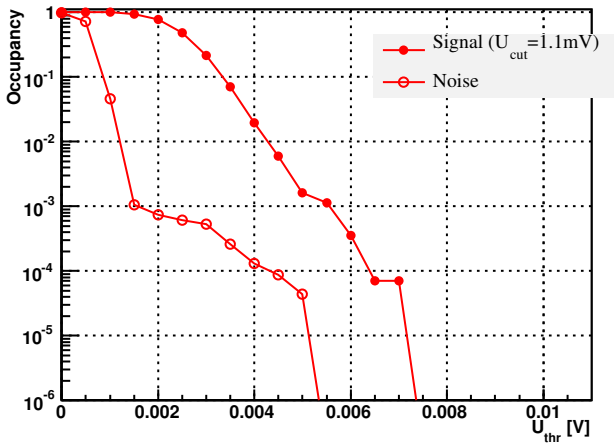
amplitudes



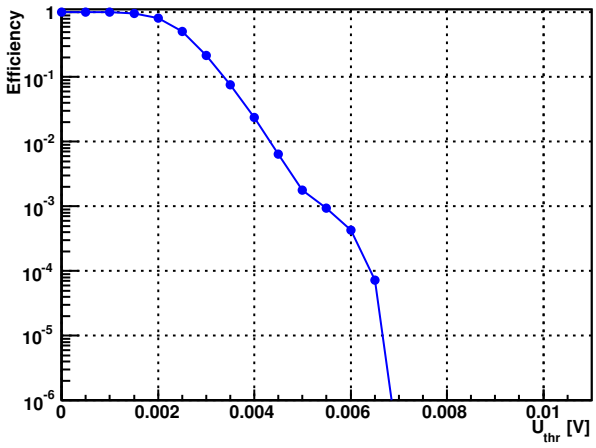
Signal to noise

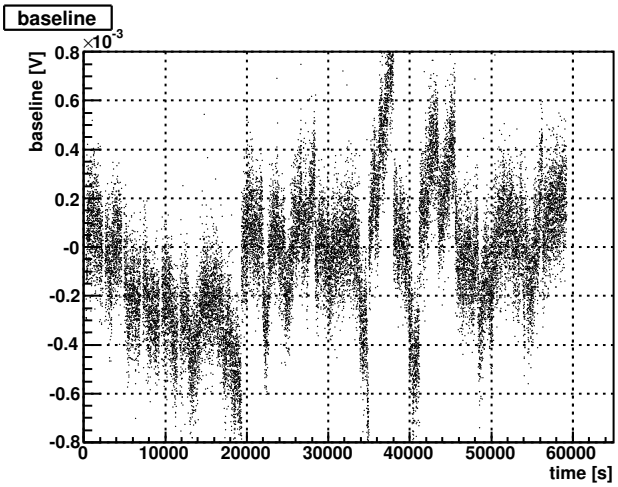


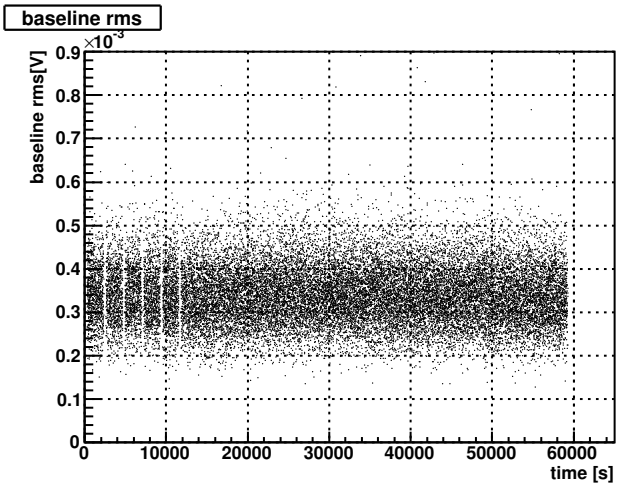
Occupancy vs Threshold, HV=1000V

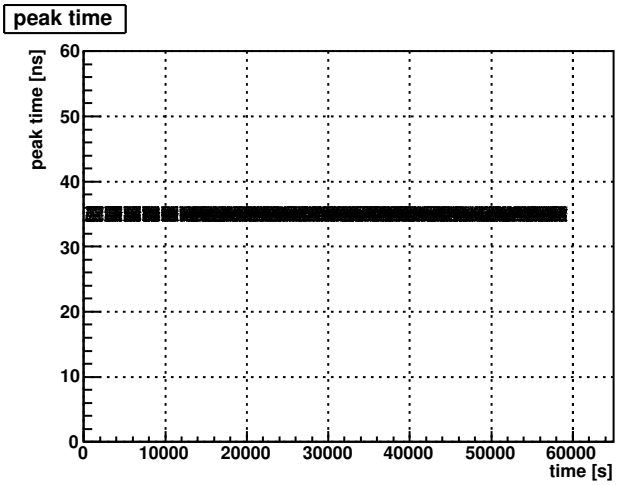


Efficiency vs Threshold, HV=1000V




baseline
baseline [V]
×10⁻³
0.8
0.6
0.4
0.2
-0
-0.2
-0.4
-0.6
-0.8
0
10000
20000
30000
40000
50000
60000
time [s]


baseline rms
baseline rms[V]
×10⁻³
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
10000
20000
30000
40000
50000
60000
time [s]


peak time
peak time [ns]
60
50
40
30
20
10
0
0
10000
20000
30000
40000
50000
60000
time [s]

Data File = SP_051121182521_Fotec404__A382-11__A382-8_measurement1.xls
Upper Diamond = A382-11
Lower Diamond = A382-8
Maček ceramic Ass. #1