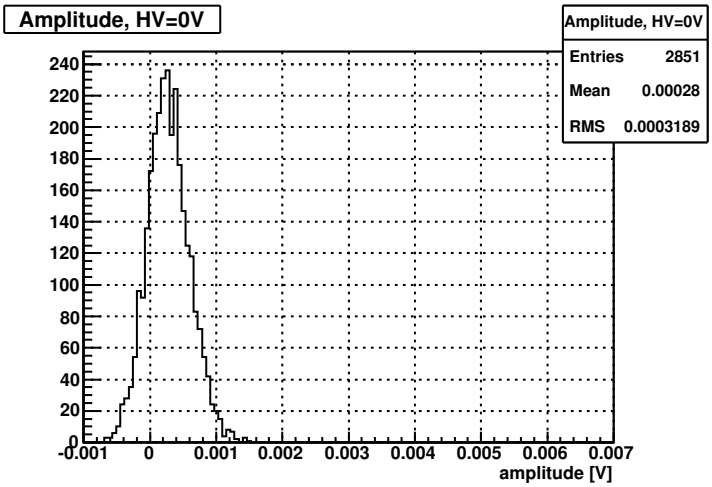
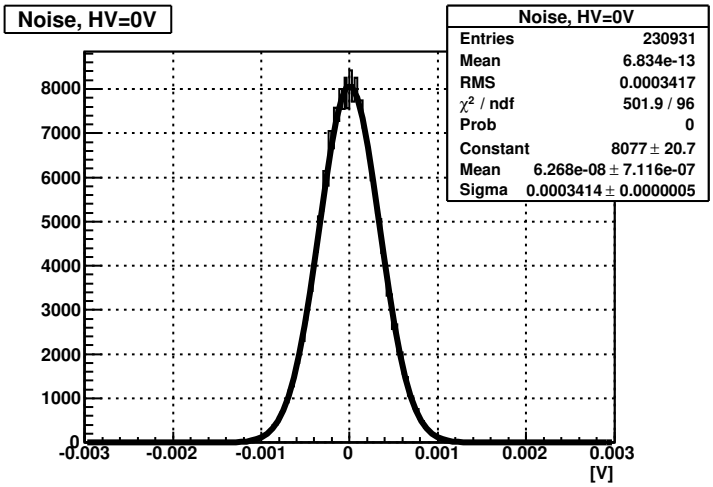
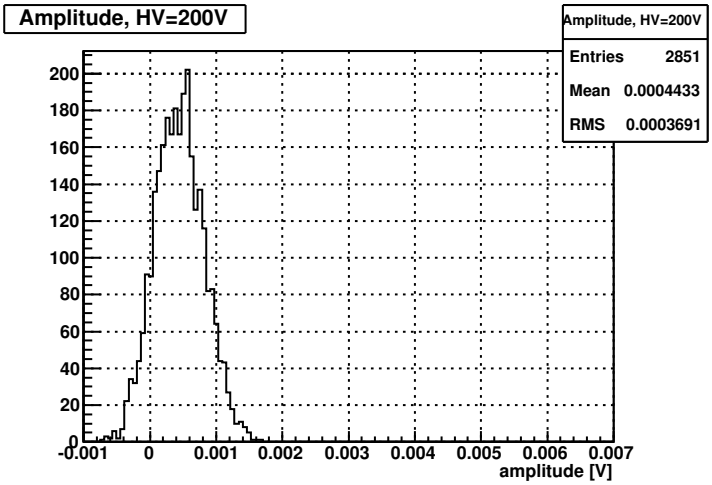
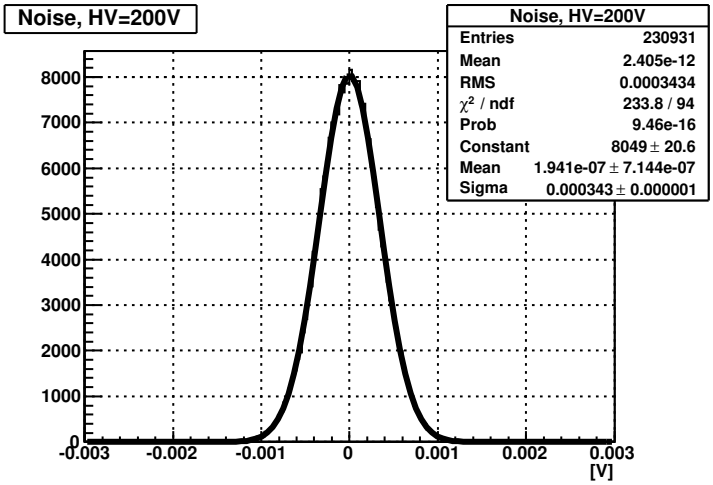
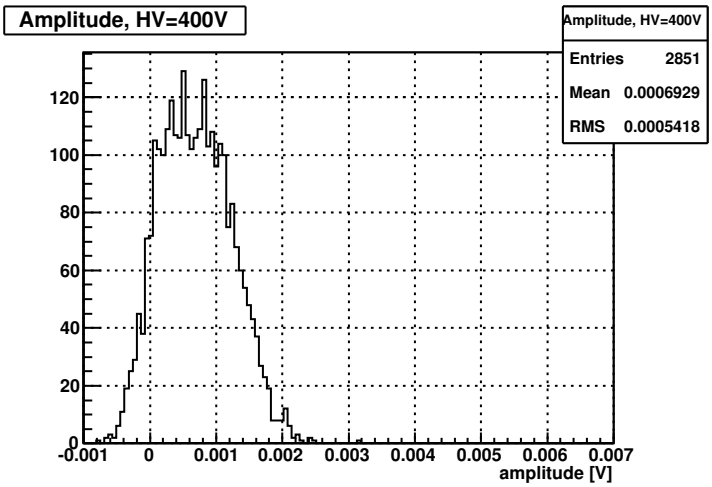
Fotec Box 407, (A382-15 and A382-12), Measurement 1 (BWL 200MHz)

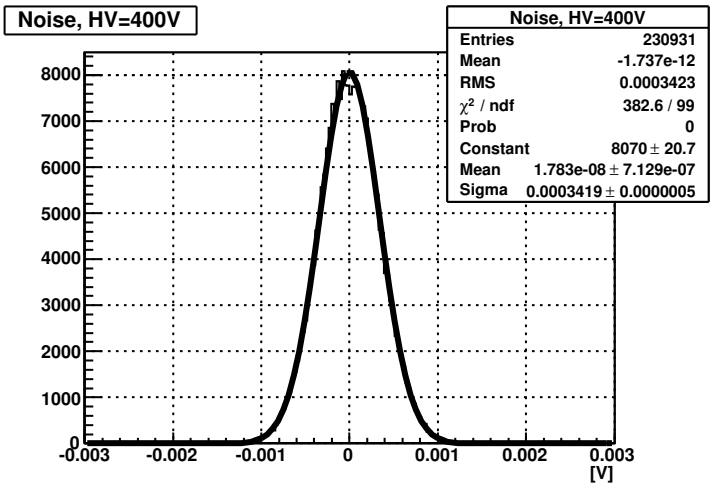


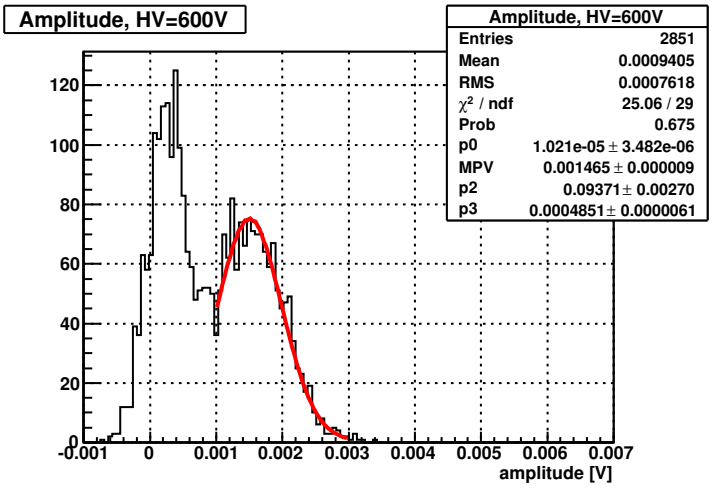


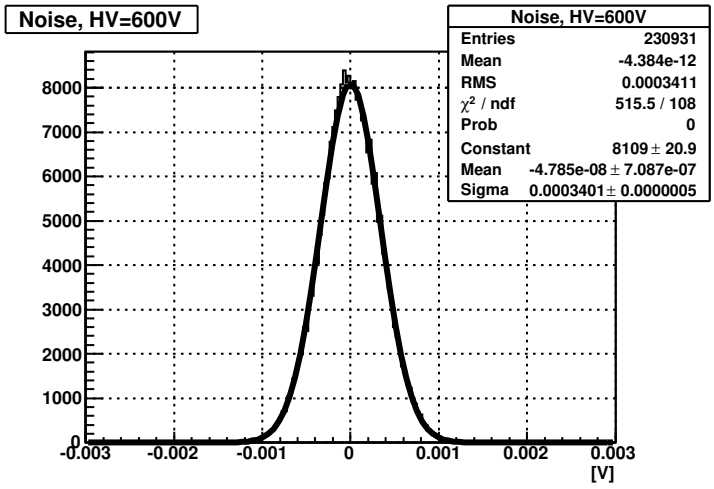


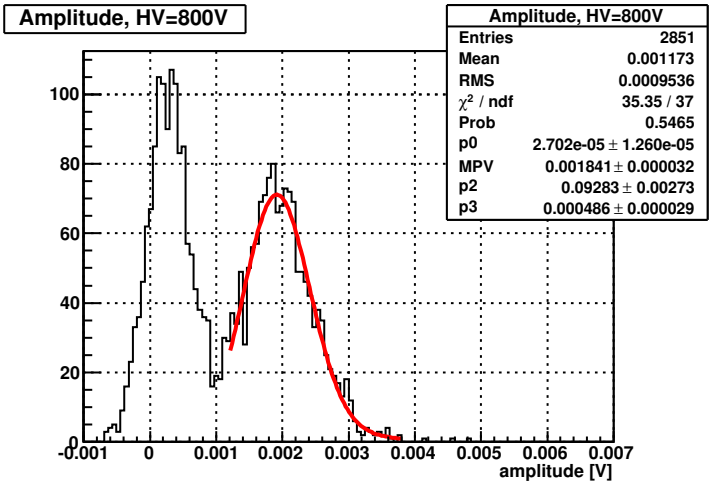


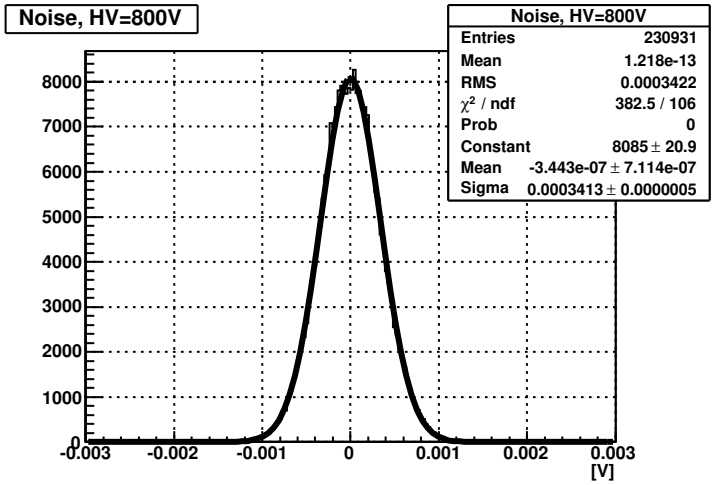


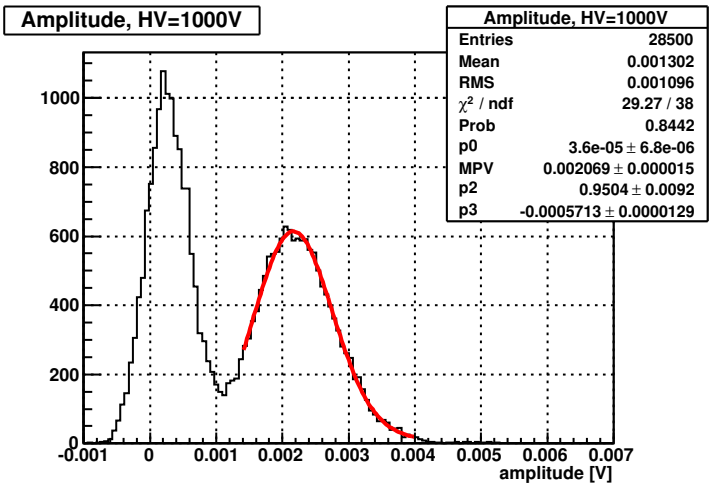


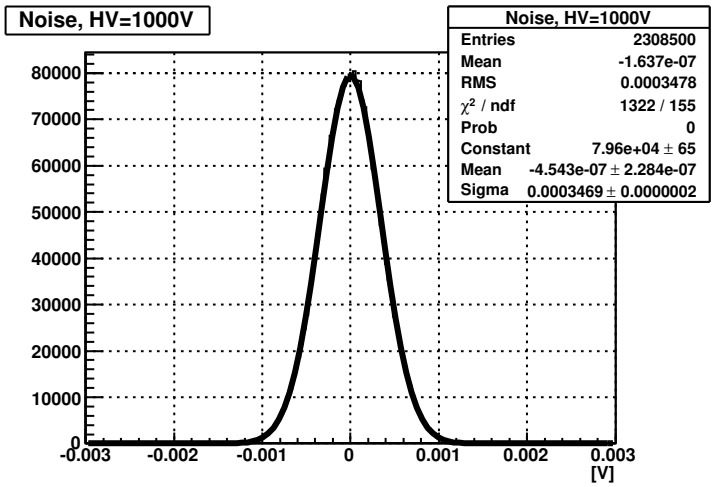

Amplitude, HV=600V
Amplitude, HV=600V
Entries 2851
Mean 0.0009405
RMS 0.0007618
χ² / ndf 25.06 / 29
Prob 0.675
p0 1.021e-05 ± 3.482e-06
MPV 0.001465 ± 0.000009
p2 0.09371 ± 0.00270
p3 0.0004851 ± 0.0000061
amplitude [V]


Noise, HV=600V
Noise, HV=600V
Entries 230931
Mean -4.384e-12
RMS 0.0003411
χ² / ndf 515.5 / 108
Prob 0
Constant 8109 ± 20.9
Mean -4.785e-08 ± 7.087e-07
Sigma 0.0003401 ± 0.0000005
[V]

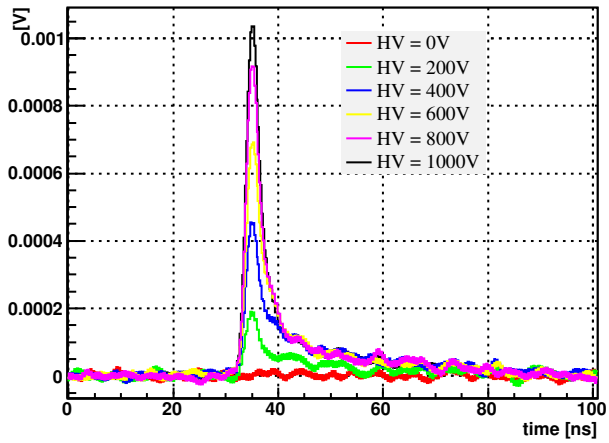

Amplitude, HV=800V
Amplitude, HV=800V
Entries 2851
Mean 0.001173
RMS 0.0009536
χ² / ndf 35.35 / 37
Prob 0.5465
p0 2.702e-05 ± 1.260e-05
MPV 0.001841 ± 0.000032
p2 0.09283 ± 0.00273
p3 0.000486 ± 0.000029
amplitude [V]

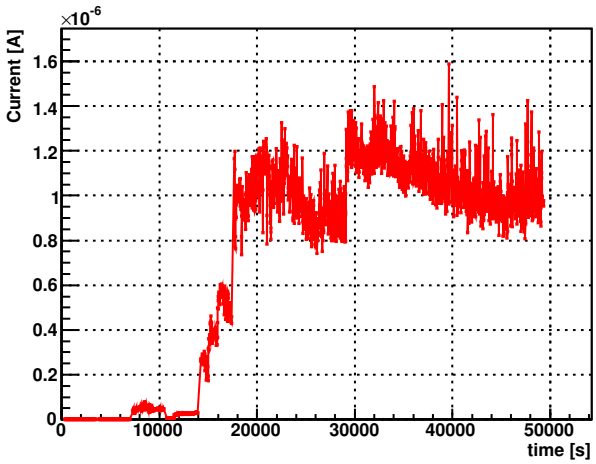

Noise, HV=800V
Noise, HV=800V
Entries 230931
Mean 1.218e-13
RMS 0.0003422
χ² / ndf 382.5 / 106
Prob 0
Constant 8085 ± 20.9
Mean -3.443e-07 ± 7.114e-07
Sigma 0.0003413 ± 0.0000005
[V]


Amplitude, HV=1000V
Amplitude, HV=1000V
Entries 28500
Mean 0.001302
RMS 0.001096
χ² / ndf 29.27 / 38
Prob 0.8442
p0 3.6e-05 ± 6.8e-06
MPV 0.002069 ± 0.000015
p2 0.9504 ± 0.0092
p3 -0.0005713 ± 0.0000129
amplitude [V]

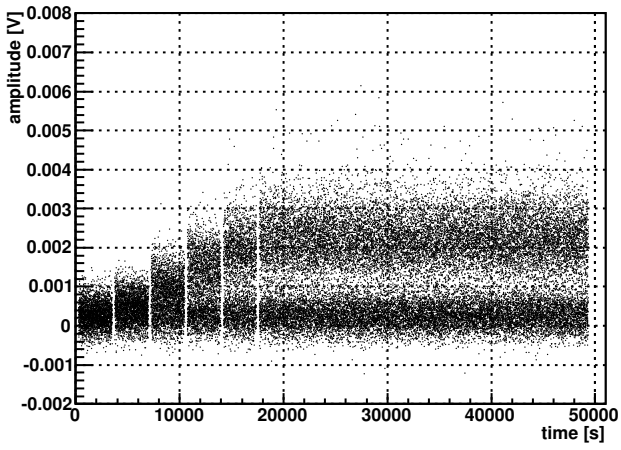

Noise, HV=1000V
Noise, HV=1000V
Entries 2308500
Mean -1.637e-07
RMS 0.0003478
χ² / ndf 1322 / 155
Prob 0
Constant 7.96e+04 ± 65
Mean -4.543e-07 ± 2.284e-07
Sigma 0.0003469 ± 0.0000002
[V]

Average event

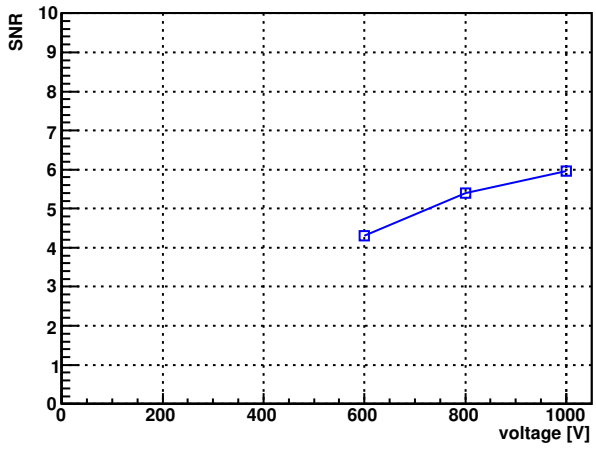




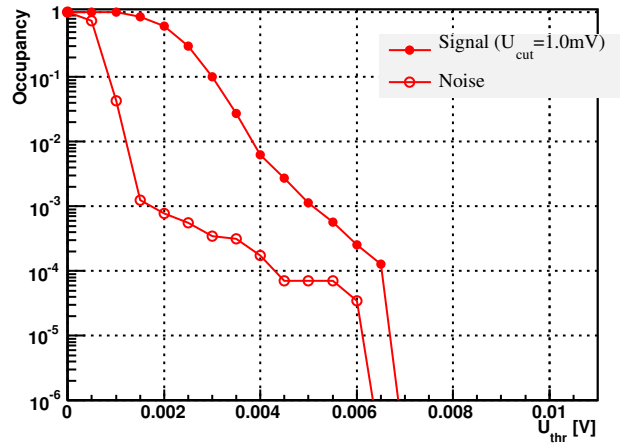
amplitudes



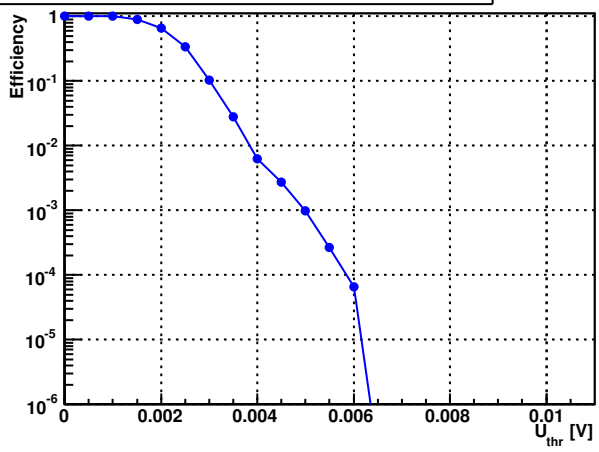
Signal to noise

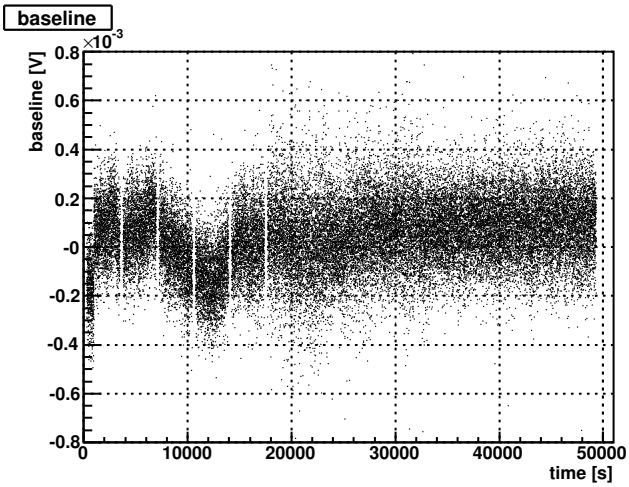


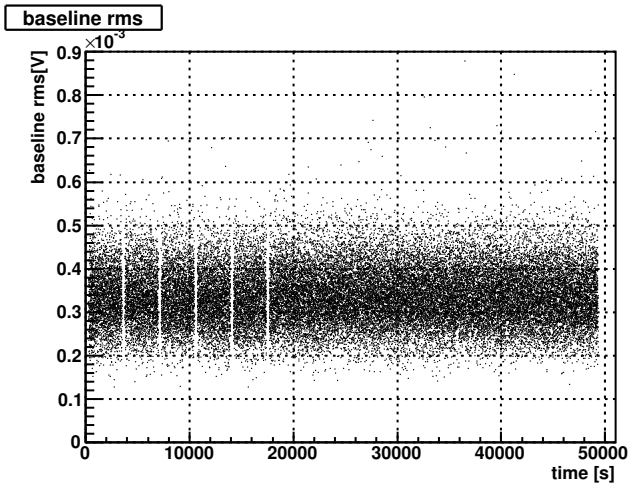
Occupancy vs Threshold, HV=1000V

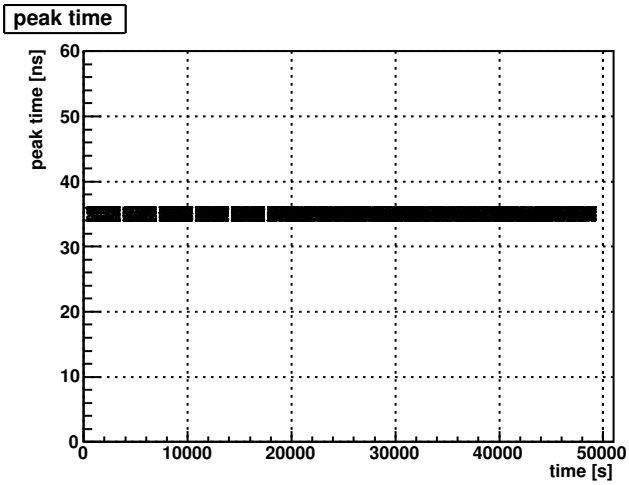


Efficiency vs Threshold, HV=1000V, U_{cut}=1.0mV




baseline
×10⁻³
baseline [V]
time [s]


baseline rms
×10⁻³
baseline rms[V]
time [s]


peak time
peak time [ns]
time [s]

Data File = SP_060320112114_Fotec407_A382-15_A382-12_Measurement1.xls
Upper Diamond = A382-15
Lower Diamond = A382-12
Maček ceramic Ass. #2