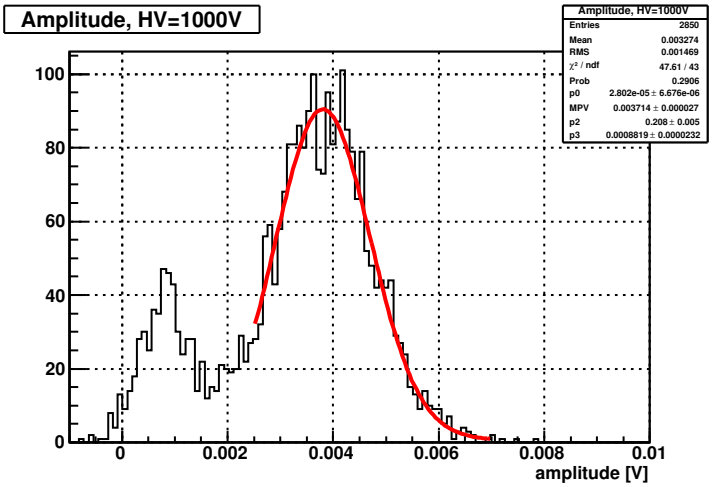
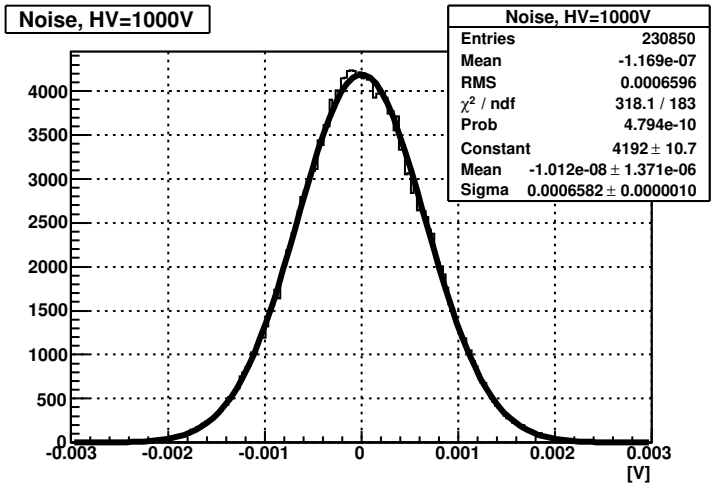
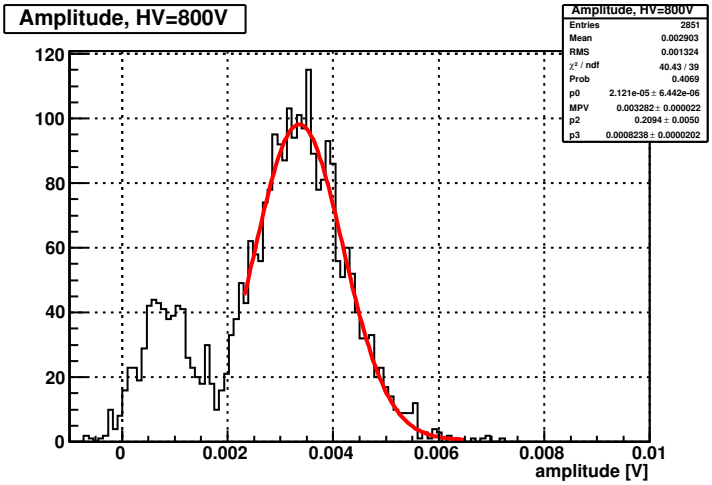
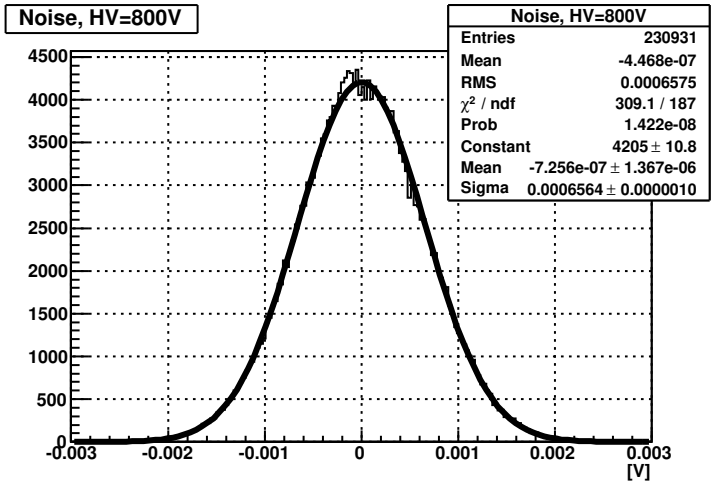
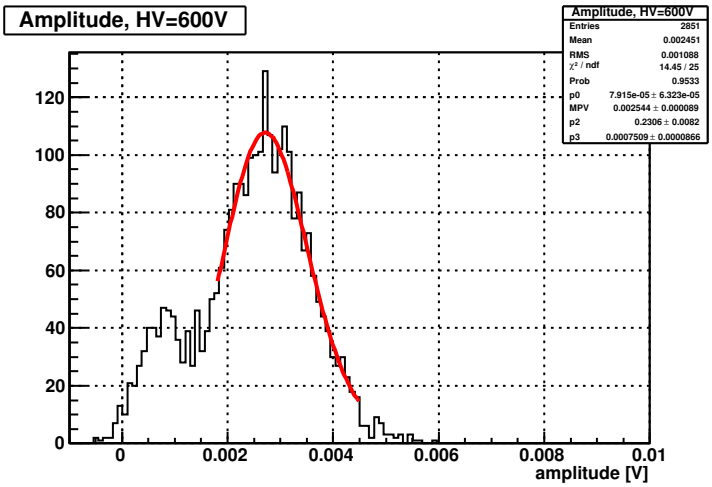
Fotec Box 401 (CDS163, 46TO-4), Measurement 2

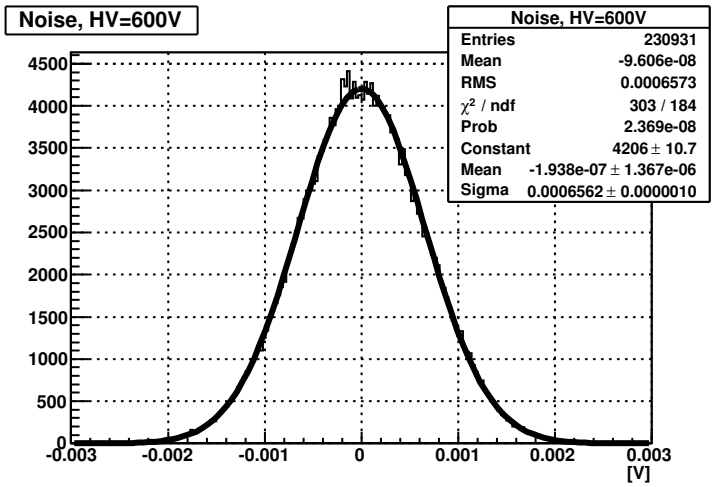


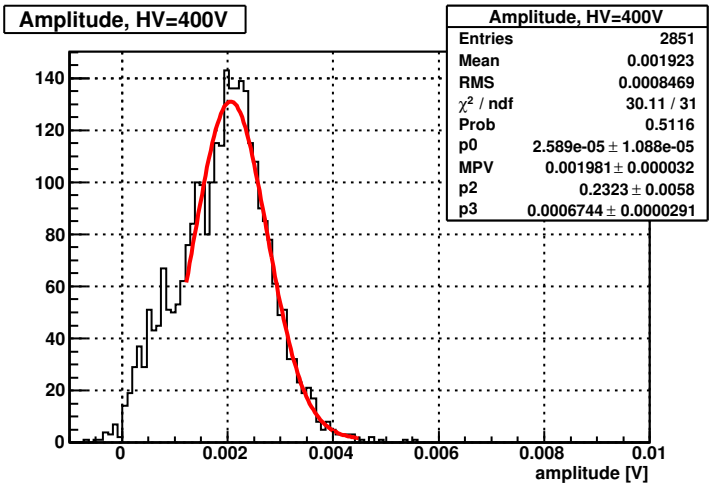


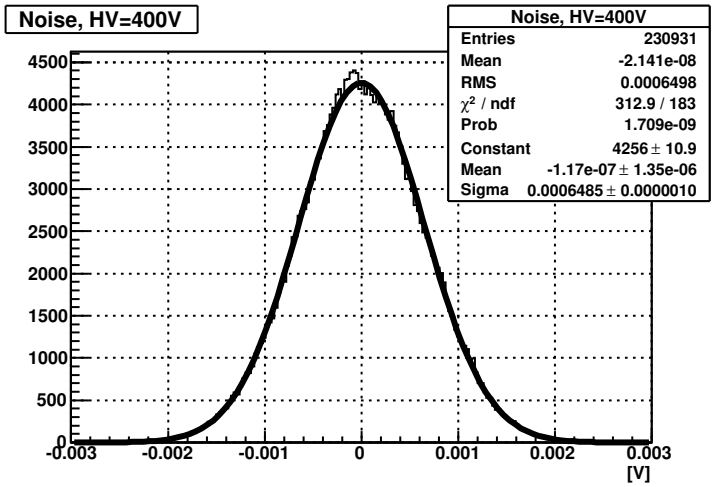


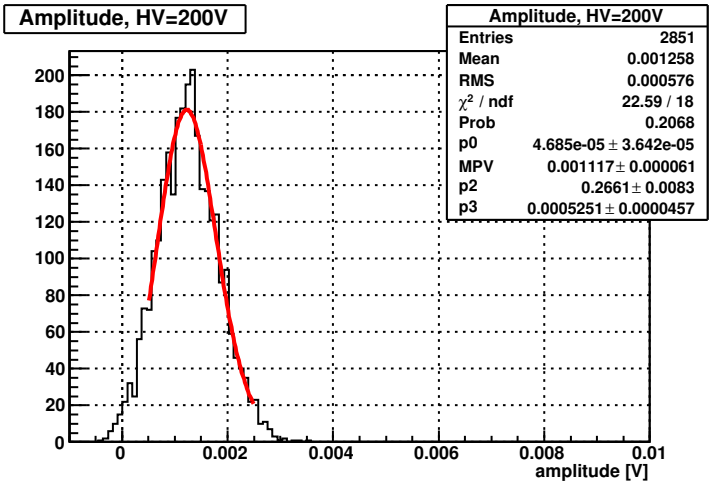


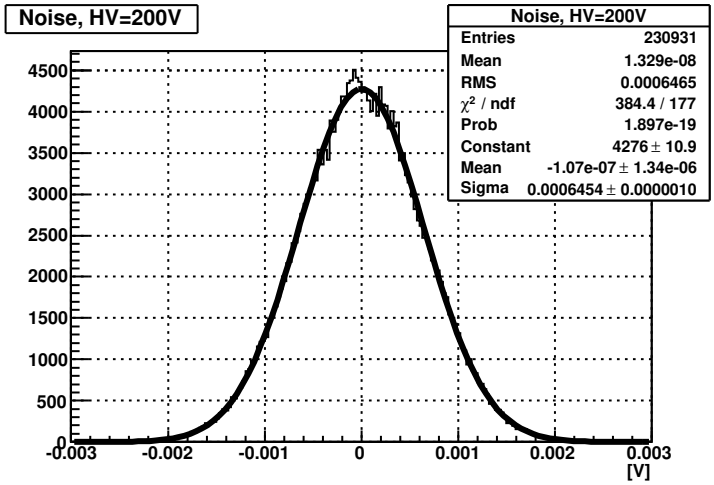


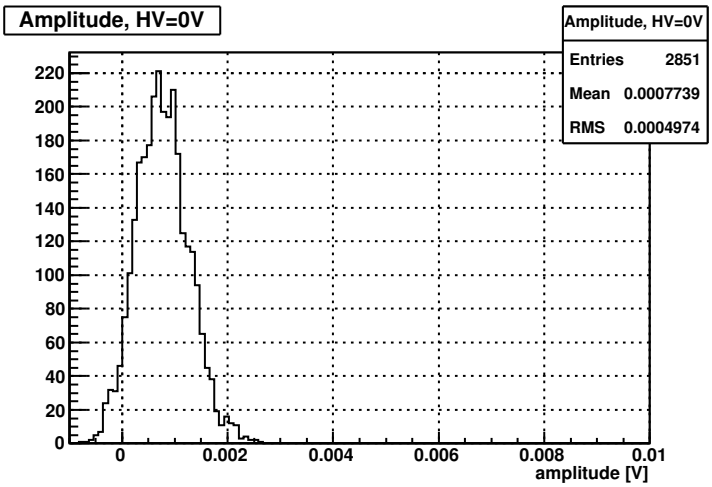


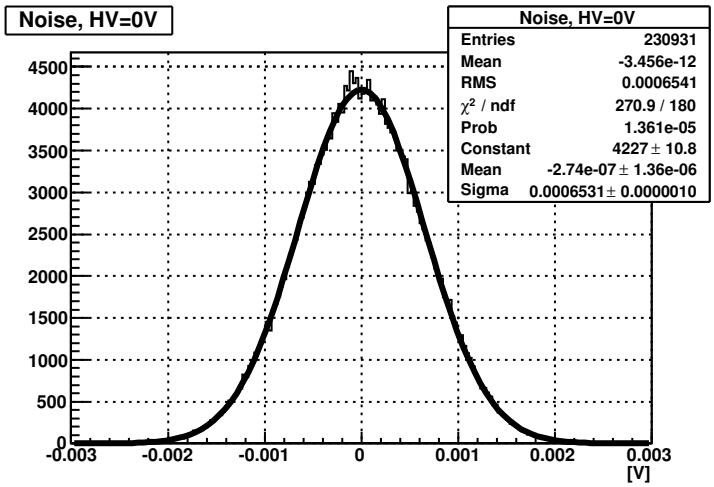

Amplitude, HV=400V
Amplitude, HV=400V
Entries 2851
Mean 0.001923
RMS 0.0008469
χ² / ndf 30.11 / 31
Prob 0.5116
p0 2.589e-05 ± 1.088e-05
MPV 0.001981 ± 0.000032
p2 0.2323 ± 0.0058
p3 0.0006744 ± 0.0000291
amplitude [V]


Noise, HV=400V
Noise, HV=400V
Entries 230931
Mean -2.141e-08
RMS 0.0006498
χ² / ndf 312.9 / 183
Prob 1.709e-09
Constant 4256 ± 10.9
Mean -1.17e-07 ± 1.35e-06
Sigma 0.0006485 ± 0.0000010
[V]

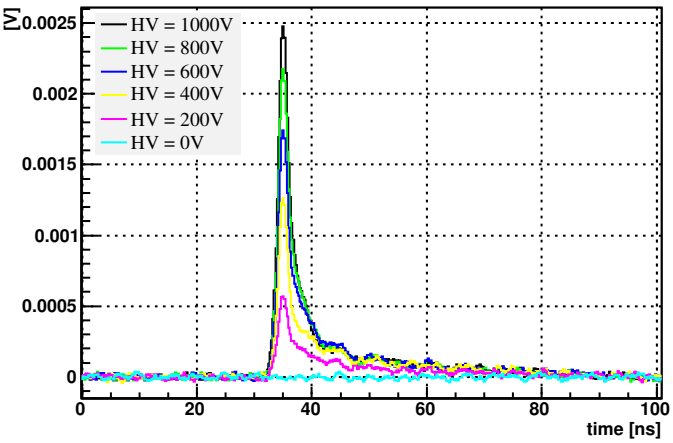

Amplitude, HV=200V
Amplitude, HV=200V
Entries 2851
Mean 0.001258
RMS 0.000576
χ² / ndf 22.59 / 18
Prob 0.2068
p0 4.685e-05 ± 3.642e-05
MPV 0.001117 ± 0.000061
p2 0.2661 ± 0.0083
p3 0.0005251 ± 0.0000457
amplitude [V]

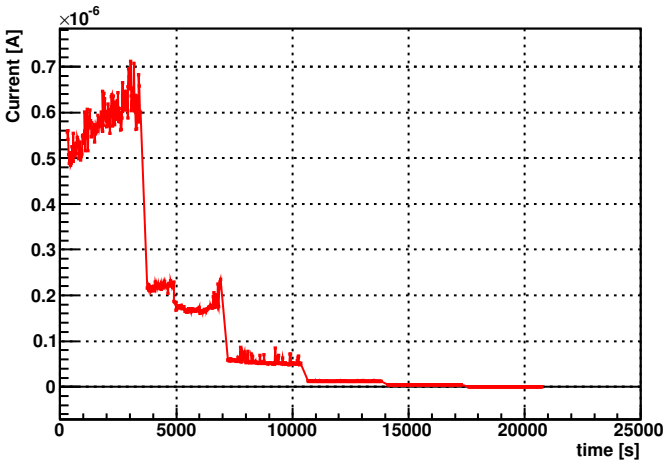

Noise, HV=200V
Noise, HV=200V
Entries 230931
Mean 1.329e-08
RMS 0.0006465
χ² / ndf 384.4 / 177
Prob 1.897e-19
Constant 4276 ± 10.9
Mean -1.07e-07 ± 1.34e-06
Sigma 0.0006454 ± 0.0000010
[V]


Amplitude, HV=0V
Amplitude, HV=0V
Entries 2851
Mean 0.0007739
RMS 0.0004974
amplitude [V]

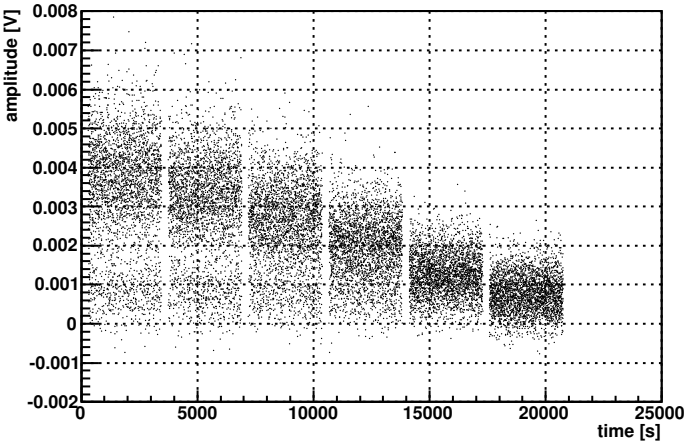

Noise, HV=0V
Noise, HV=0V
Entries 230931
Mean -3.456e-12
RMS 0.0006541
χ² / ndf 270.9 / 180
Prob 1.361e-05
Constant 4227 ± 10.8
Mean -2.74e-07 ± 1.36e-06
Sigma 0.0006531 ± 0.0000010
[V]

Average event

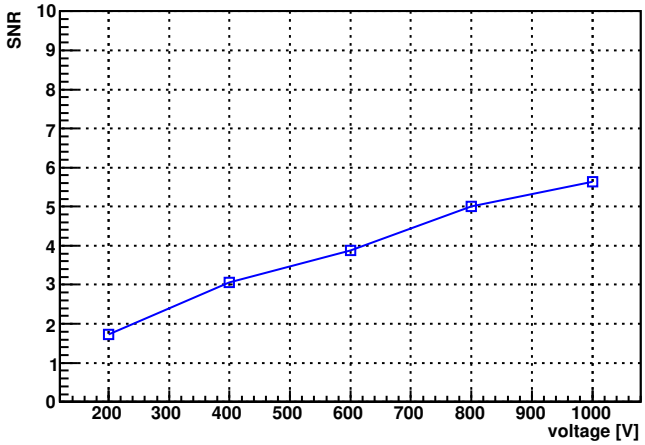




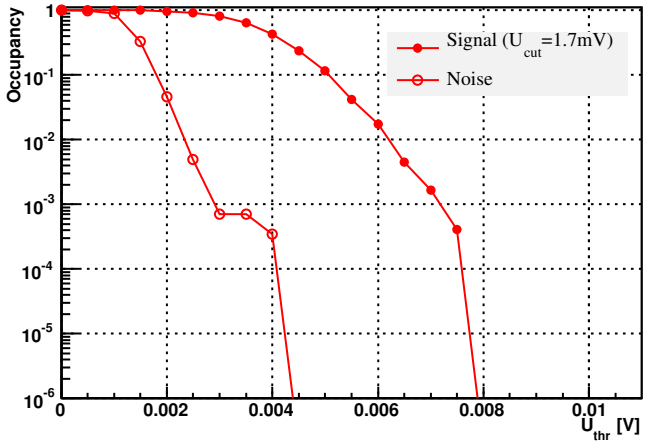
amplitudes

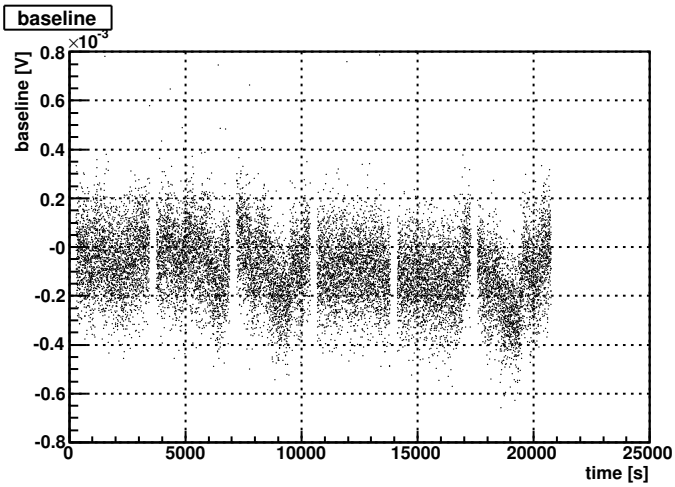


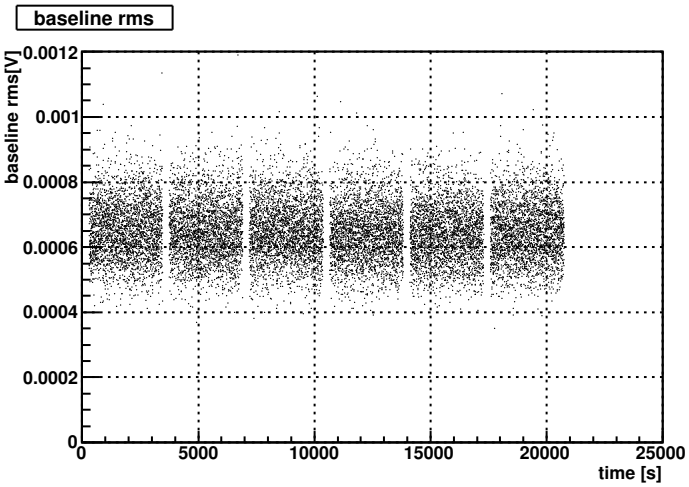
Signal to noise

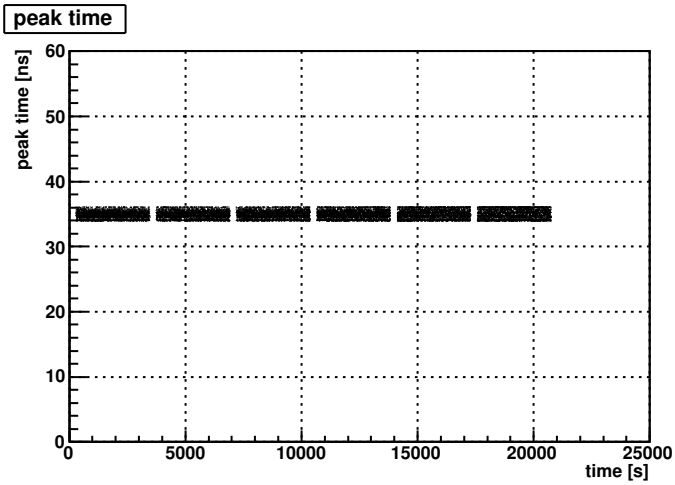


Occupancy vs Threshold, HV=1000V




baseline
×10⁻³
baseline [V]
time [s]


baseline rms
baseline rms[V]
time [s]


peak time
peak time [ns]
time [s]

Data File = SP_050907095855_Fotec401-cds163-46to-4-measurement2.xls
Upper Diamond = CDS-163, $\sim 500 \mu m$ thick, Al metailzation
Lower Diamond = 46TO-4, $\sim 500 \mu m$ thick, Al metailzation