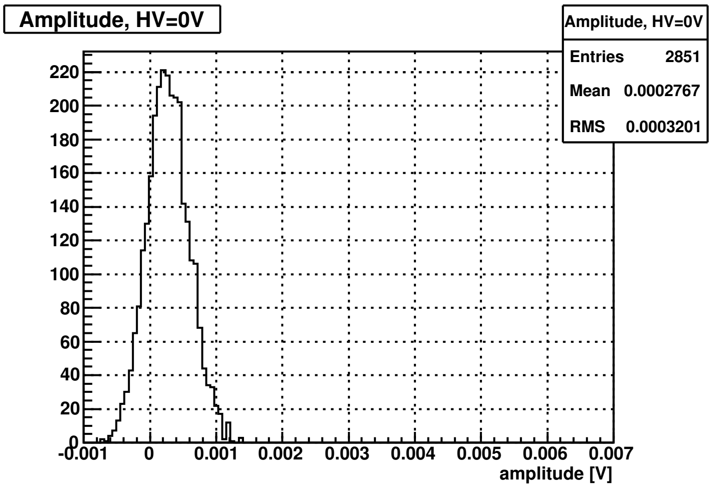
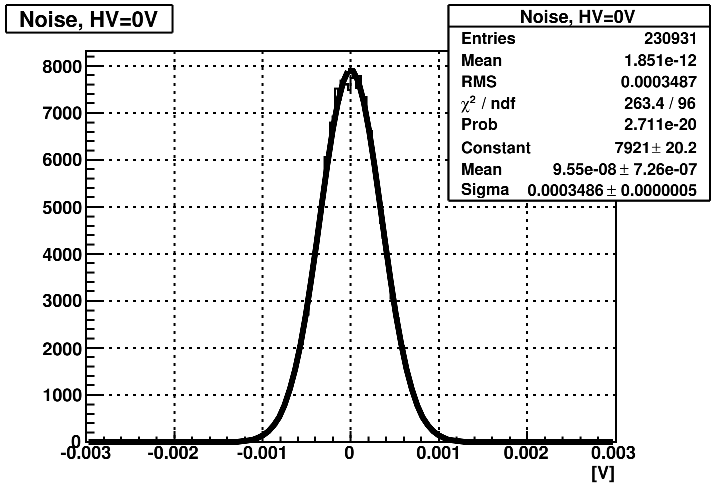
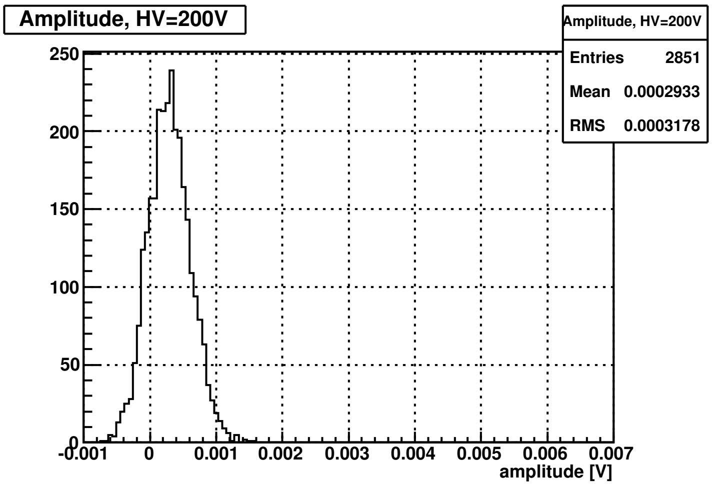
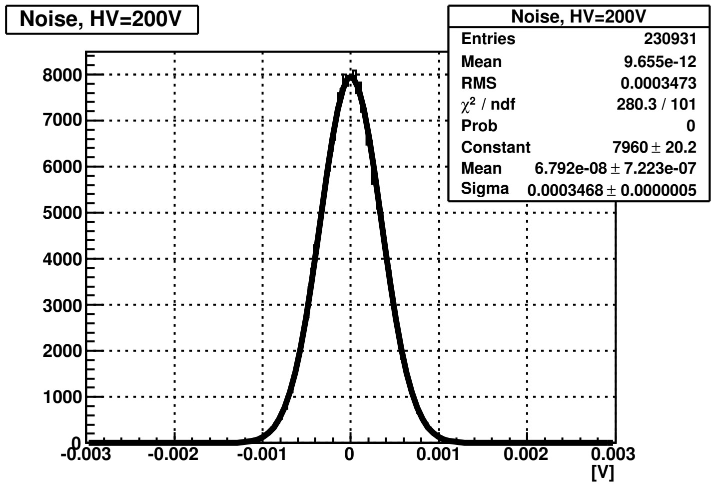
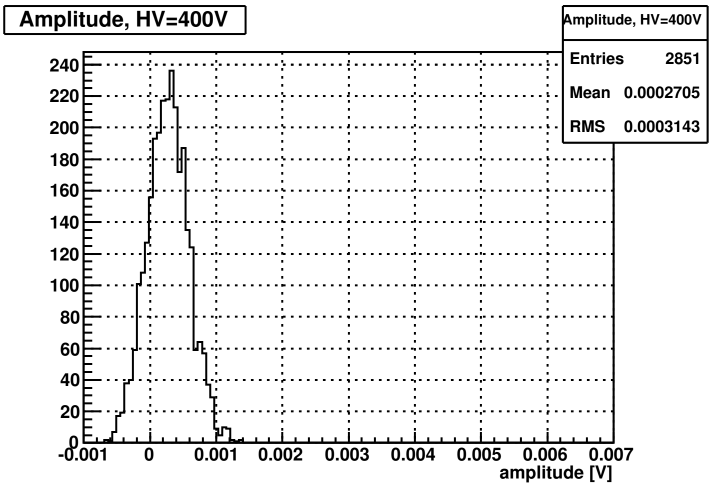
Fotec Box 408, (A382-11 and A382-8), Measurement 1 (BWL 200MHz), Random Trigger

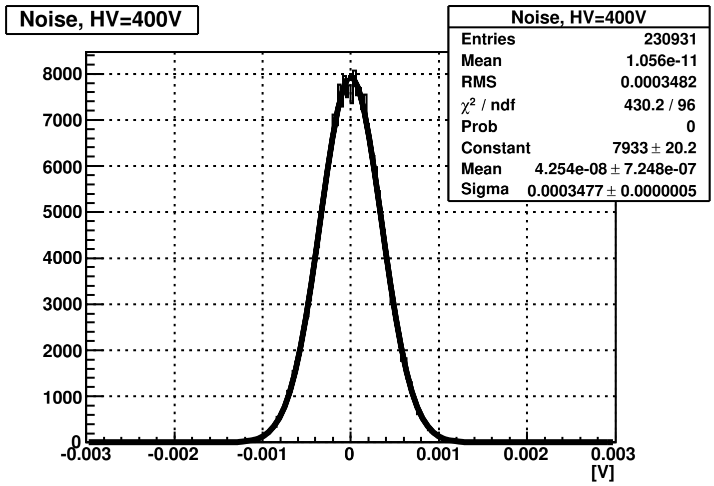


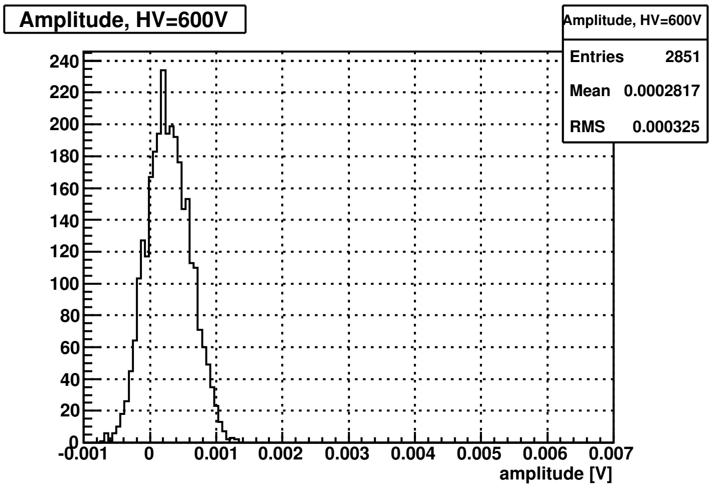


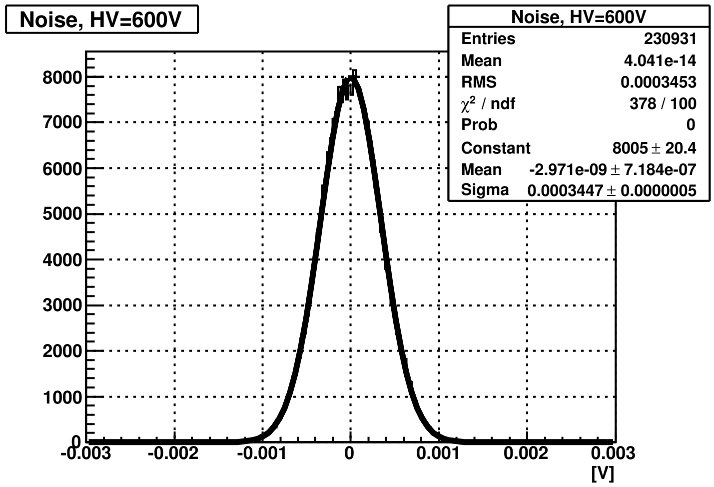


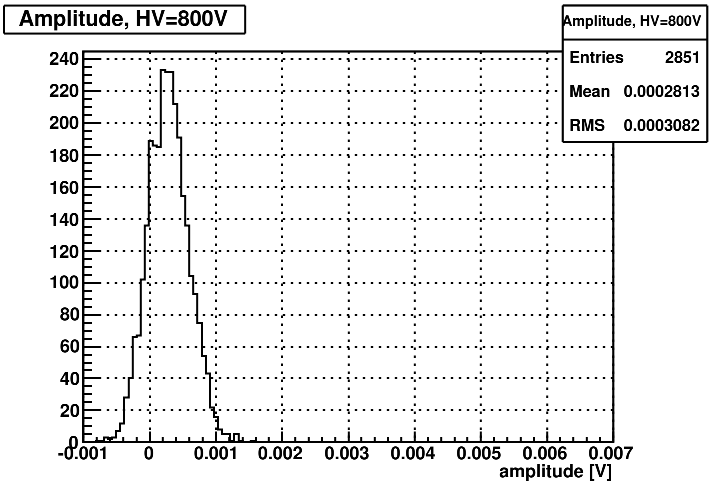


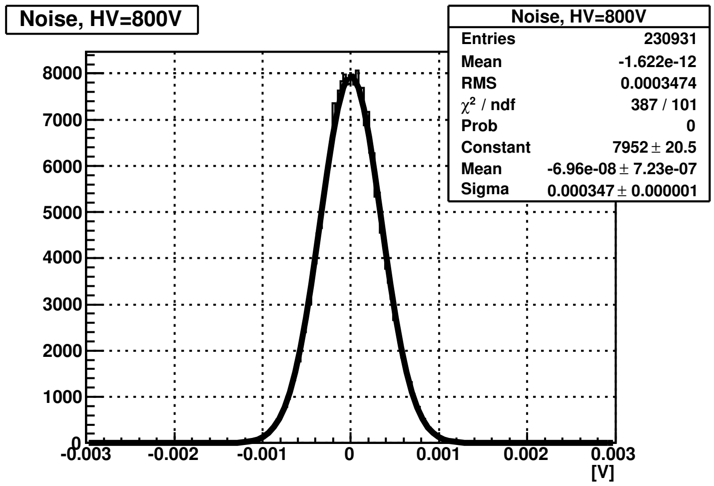


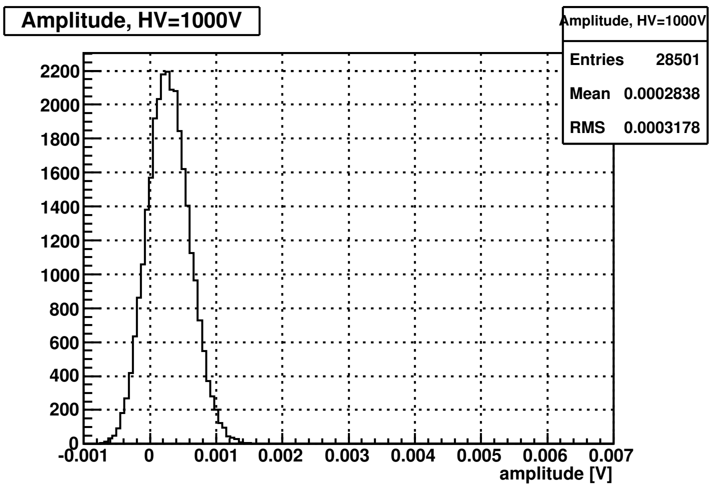


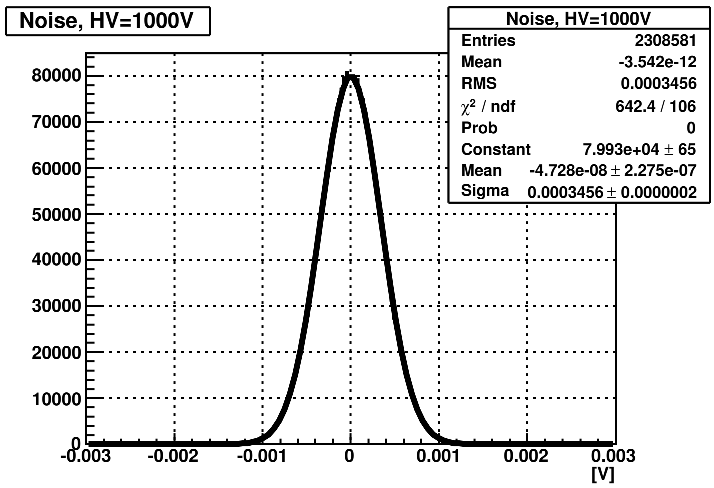

Amplitude, HV=600V
Amplitude, HV=600V
Entries 2851
Mean 0.0002817
RMS 0.000325
amplitude [V]

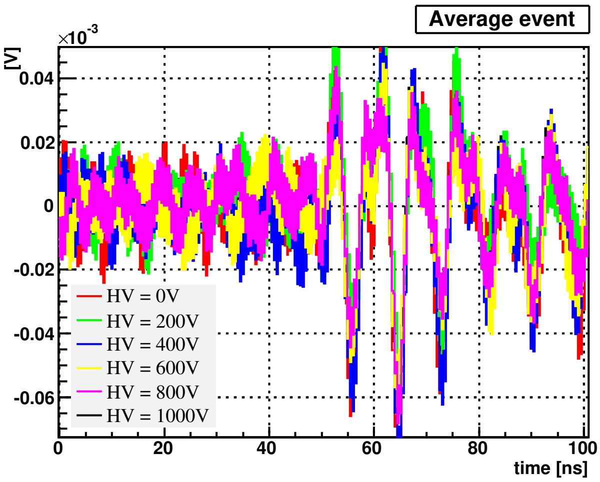

Noise, HV=600V
Noise, HV=600V
Entries 230931
Mean 4.041e-14
RMS 0.0003453
χ^2 / ndf 378 / 100
Prob 0
Constant 8005 ± 20.4
Mean -2.971e-09 ± 7.184e-07
Sigma 0.0003447 ± 0.0000005
[V]

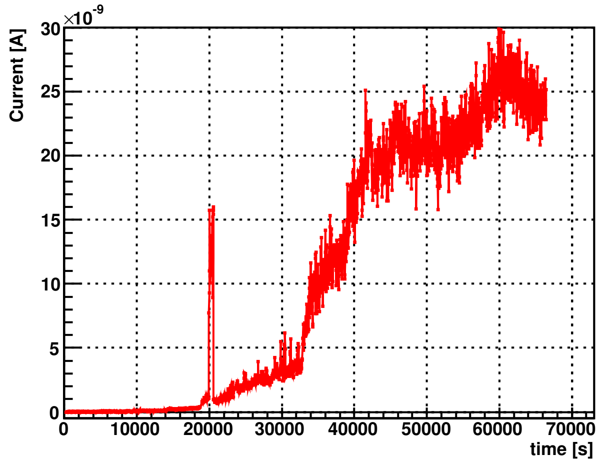

Amplitude, HV=800V
Amplitude, HV=800V
Entries 2851
Mean 0.0002813
RMS 0.0003082
amplitude [V]

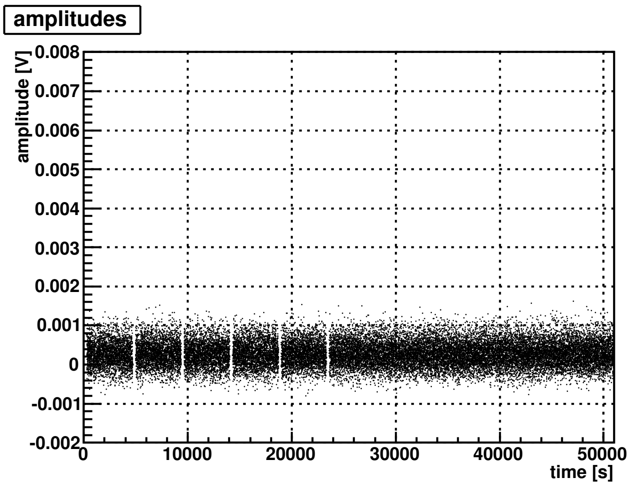

Noise, HV=800V
Noise, HV=800V
Entries 230931
Mean -1.622e-12
RMS 0.0003474
χ^2 / ndf 387 / 101
Prob 0
Constant 7952 ± 20.5
Mean -6.96e-08 ± 7.23e-07
Sigma 0.000347 ± 0.000001
[V]

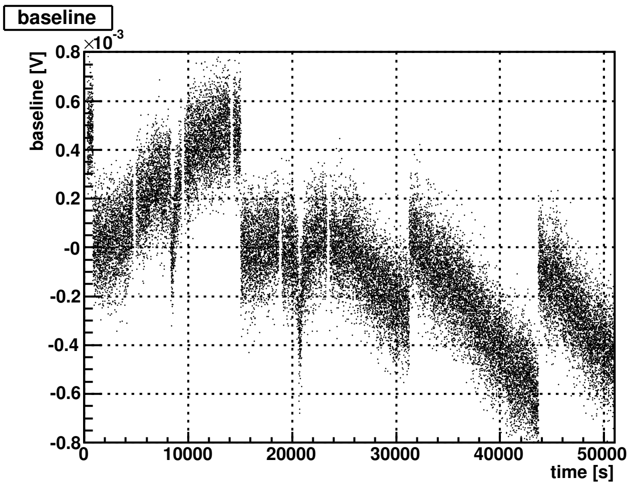

Amplitude, HV=1000V
Amplitude, HV=1000V
Entries 28501
Mean 0.0002838
RMS 0.0003178
amplitude [V]

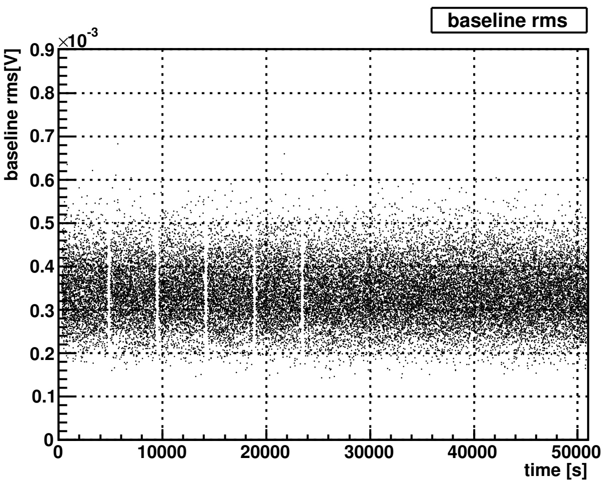

Noise, HV=1000V
Noise, HV=1000V
Entries 2308581
Mean -3.542e-12
RMS 0.0003456
χ^2 / ndf 642.4 / 106
Prob 0
Constant 7.993e+04 ± 65
Mean -4.728e-08 ± 2.275e-07
Sigma 0.0003456 ± 0.0000002
[V]

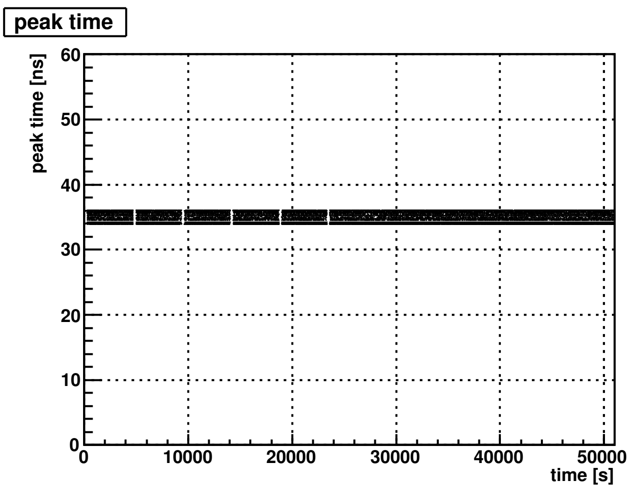

Average event
[V]
×10^-3
HV = 0V
HV = 200V
HV = 400V
HV = 600V
HV = 800V
HV = 1000V
time [ns]


Current [A]
×10^-9
time [s]


amplitudes
amplitude [V]
time [s]


baseline
baseline [V]
×10^-3
time [s]


baseline rms
baseline rms[V]
×10^-3
time [s]


peak time
peak time [ns]
time [s]

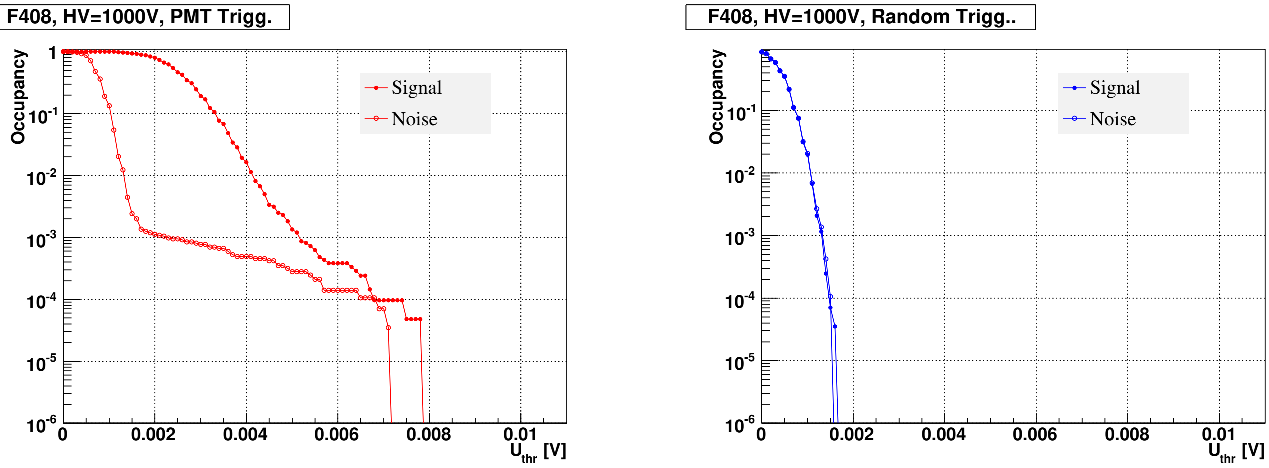


Figure 1: Occupancy versus threshold voltage. Left for measuremnt **m1 r2 F408**, right for this measuremnt. Legende: *signal* labels the plot where the time window was around the signal while for *noise* graphs the time window was set at the begining of the waveform.

Data File = SP_060403121914_Fotec408-A382-11-A382-8_measurement1_RandomTrigg.xls
Upper Diamond = A382-11
Lower Diamond = A382-8
Maček ceramic Ass. #1
Resistor still 130Ω.
Setup the same as with normal HV scans, only fotec box was placed away from the source (^{90}Sr).