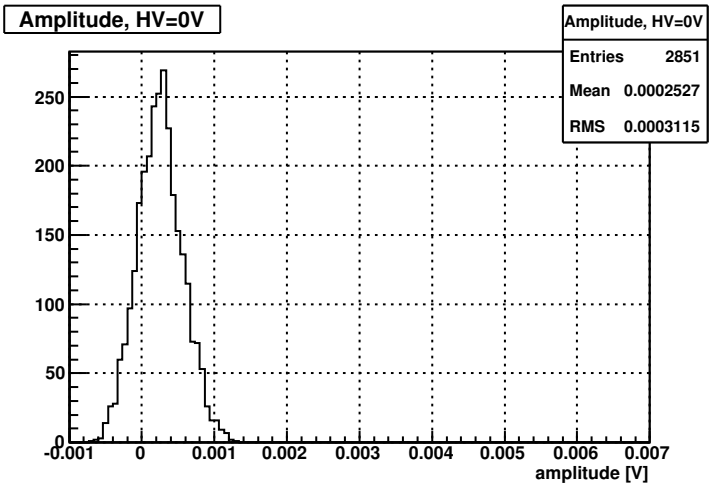
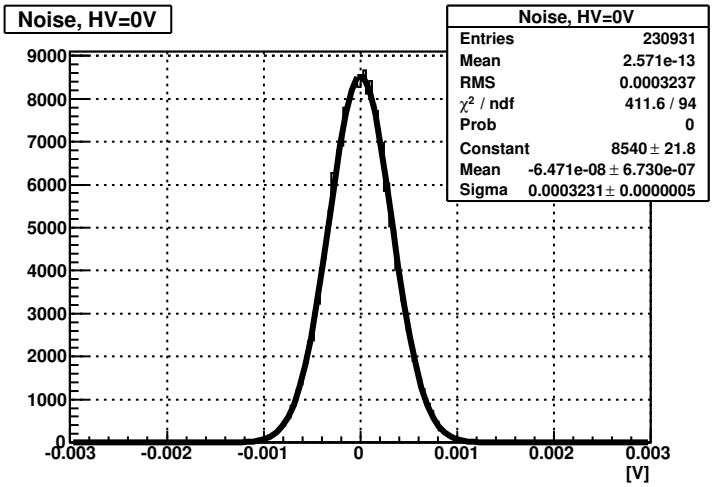
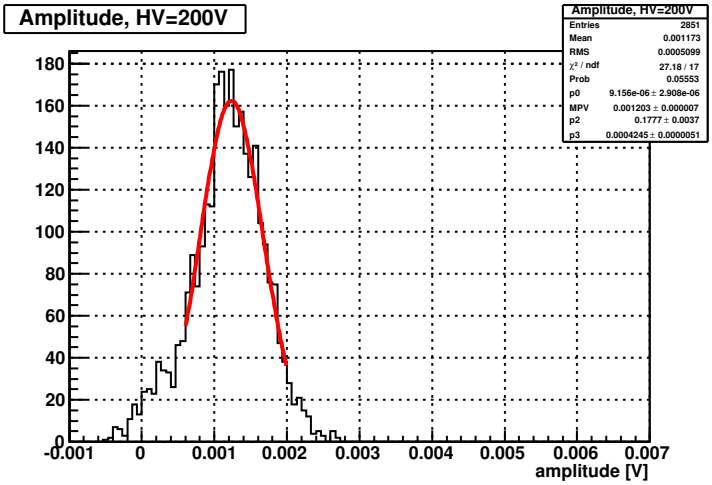
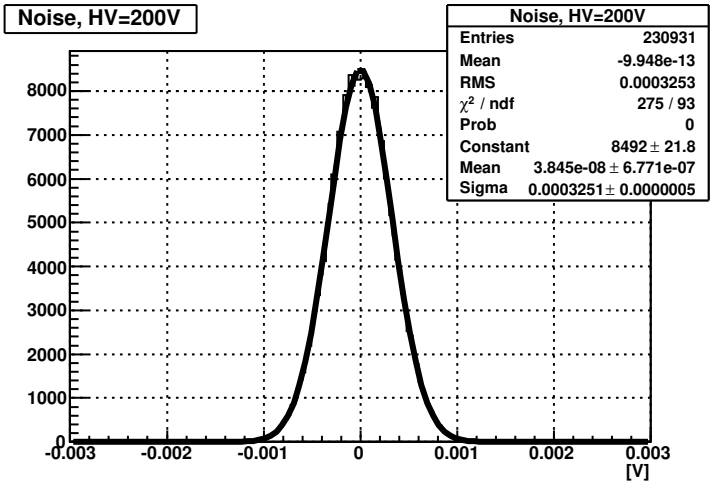
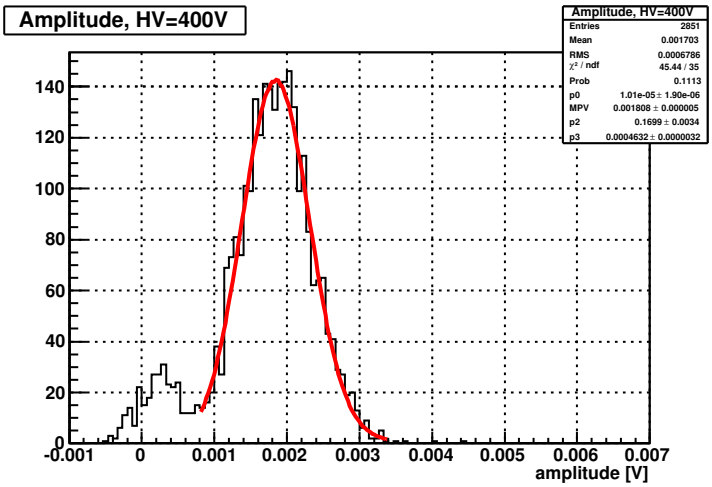
Fotec Box 402 (A230-10 and A230-08), Measurement 1 (BWL 200MHz)

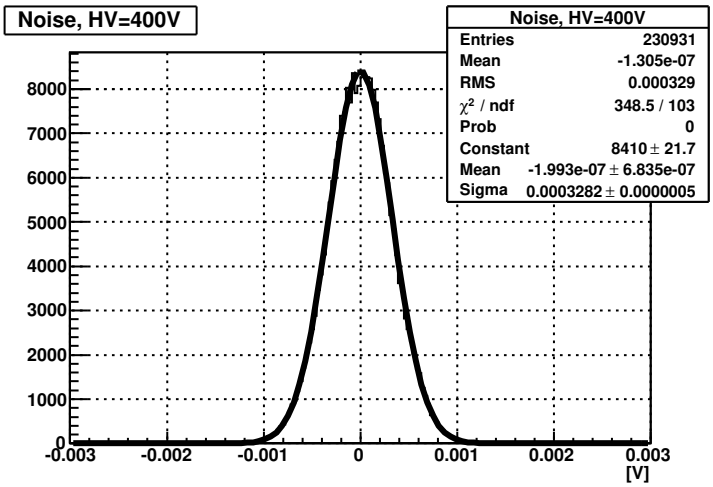


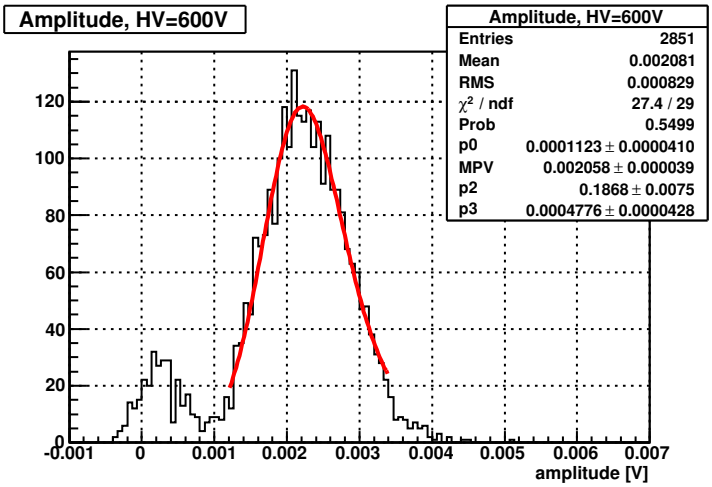


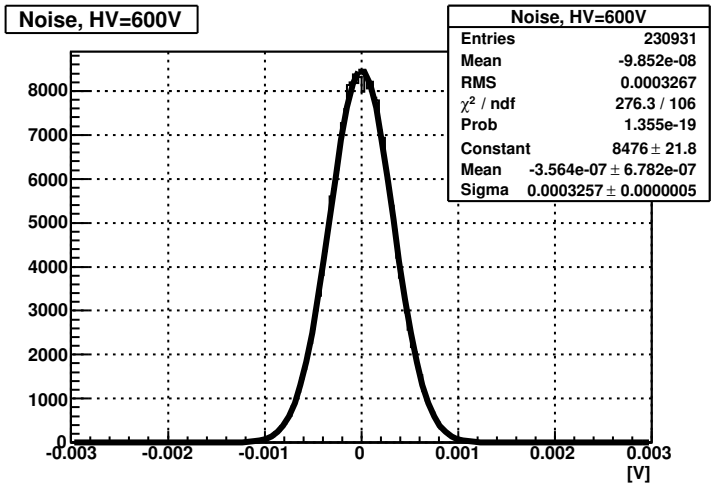


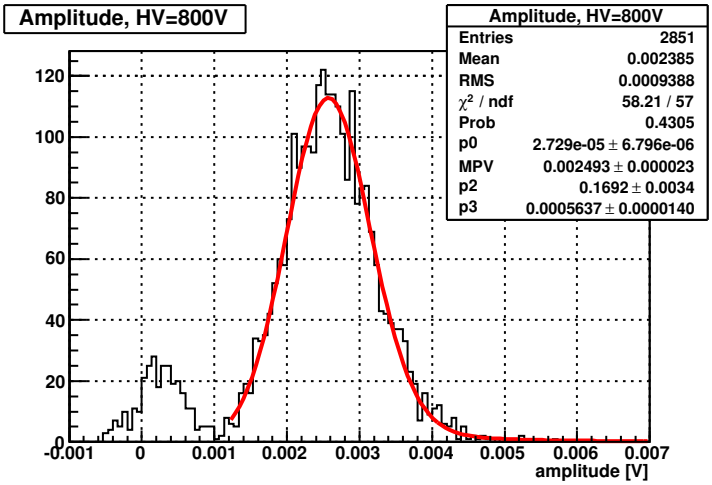


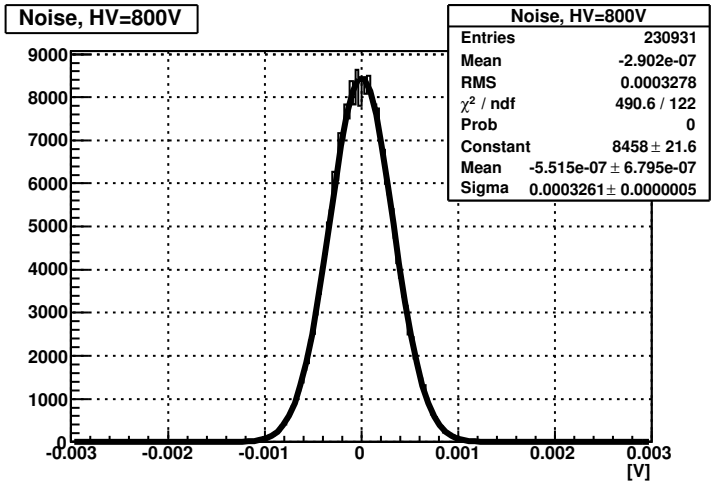


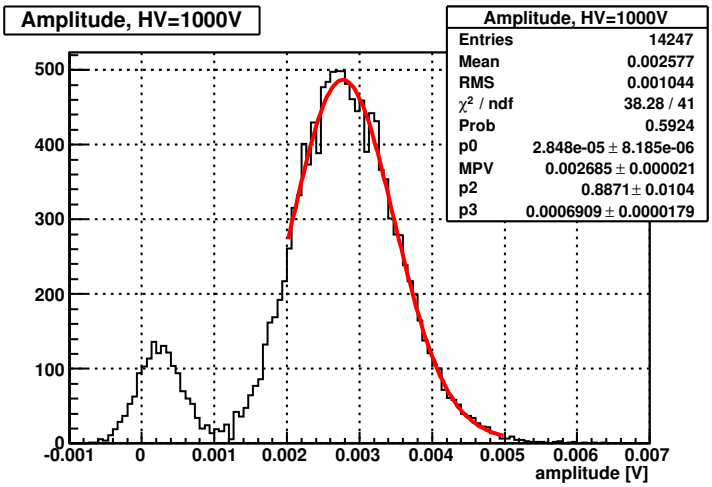


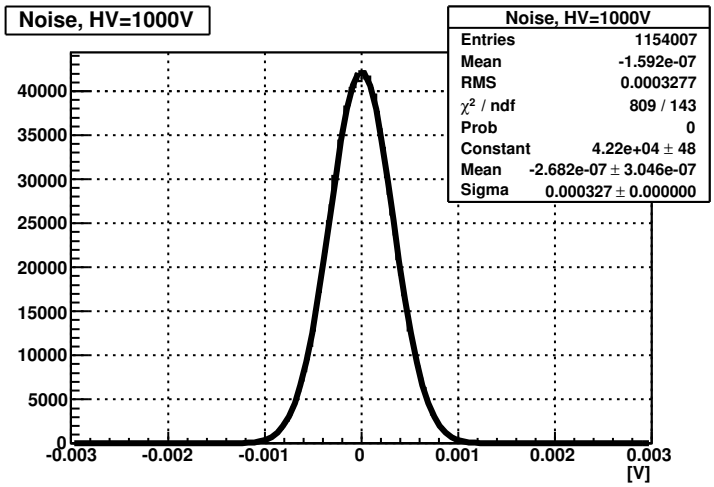

Amplitude, HV=600V
Amplitude, HV=600V
Entries 2851
Mean 0.002081
RMS 0.000829
χ² / ndf 27.4 / 29
Prob 0.5499
p0 0.0001123 ± 0.0000410
MPV 0.002058 ± 0.000039
p2 0.1868 ± 0.0075
p3 0.0004776 ± 0.0000428
amplitude [V]


Noise, HV=600V
Noise, HV=600V
Entries 230931
Mean -9.852e-08
RMS 0.0003267
χ² / ndf 276.3 / 106
Prob 1.355e-19
Constant 8476 ± 21.8
Mean -3.564e-07 ± 6.782e-07
Sigma 0.0003257 ± 0.0000005
[V]

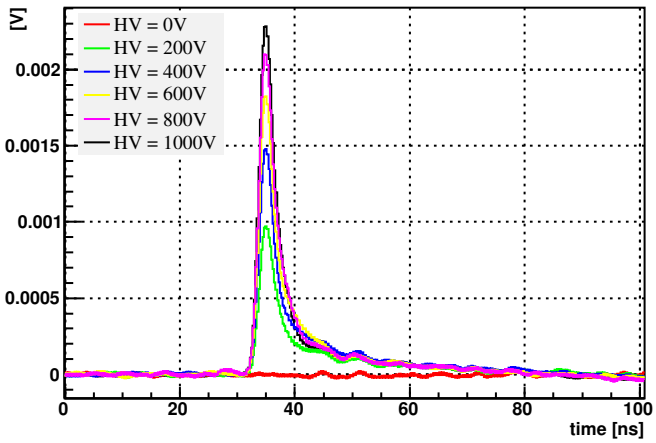

Amplitude, HV=800V
Amplitude, HV=800V
Entries 2851
Mean 0.002385
RMS 0.0009388
χ² / ndf 58.21 / 57
Prob 0.4305
p0 2.729e-05 ± 6.796e-06
MPV 0.002493 ± 0.000023
p2 0.1692 ± 0.0034
p3 0.0005637 ± 0.0000140
amplitude [V]

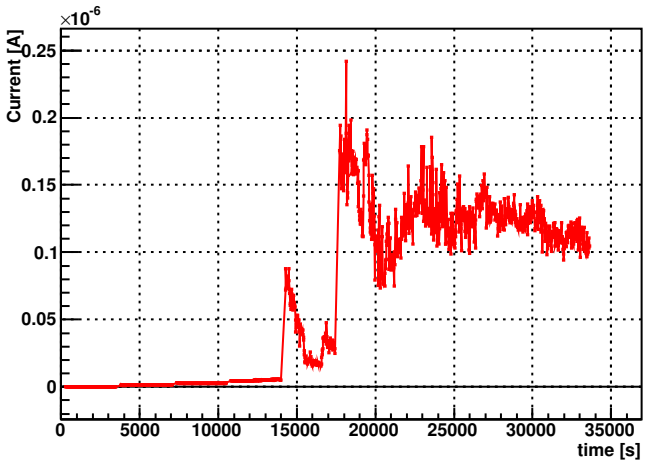

Noise, HV=800V
Noise, HV=800V
Entries 230931
Mean -2.902e-07
RMS 0.0003278
χ² / ndf 490.6 / 122
Prob 0
Constant 8458 ± 21.6
Mean -5.515e-07 ± 6.795e-07
Sigma 0.0003261 ± 0.0000005
[V]


Amplitude, HV=1000V
Amplitude, HV=1000V
Entries 14247
Mean 0.002577
RMS 0.001044
χ² / ndf 38.28 / 41
Prob 0.5924
p0 2.848e-05 ± 8.185e-06
MPV 0.002685 ± 0.000021
p2 0.8871 ± 0.0104
p3 0.0006909 ± 0.0000179
amplitude [V]

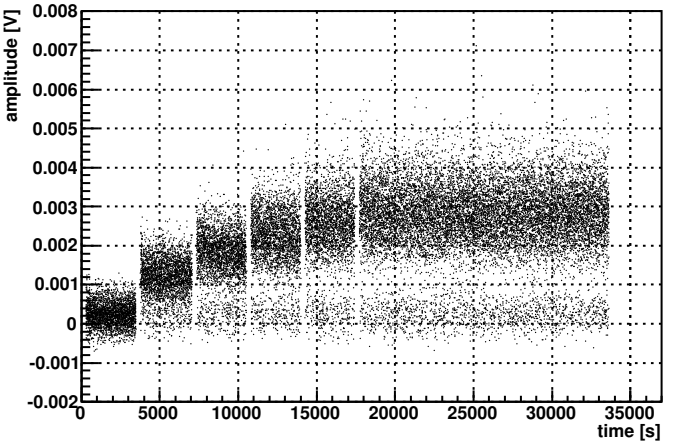

Noise, HV=1000V
Noise, HV=1000V
Entries 1154007
Mean -1.592e-07
RMS 0.0003277
χ² / ndf 809 / 143
Prob 0
Constant 4.22e+04 ± 48
Mean -2.682e-07 ± 3.046e-07
Sigma 0.000327 ± 0.000000
[V]

Average event

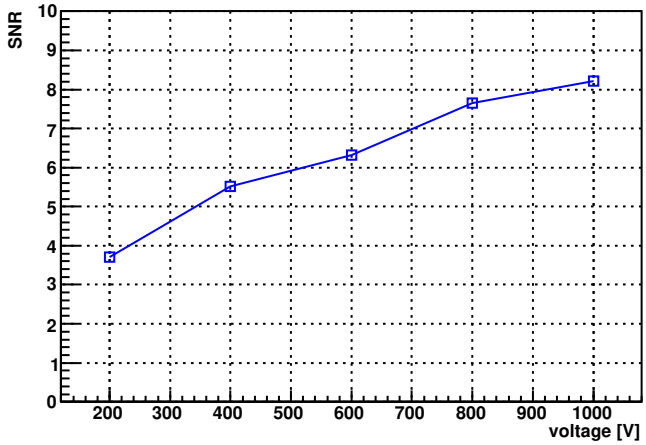




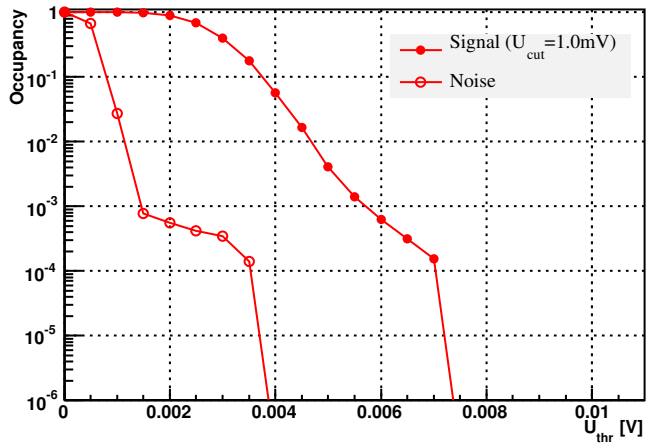
amplitudes



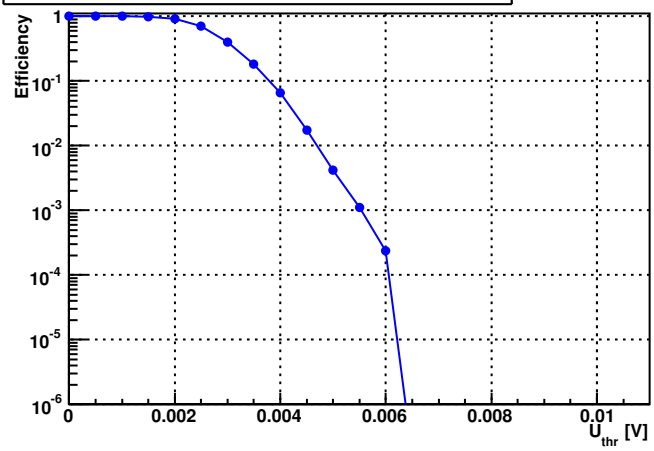
Signal to noise

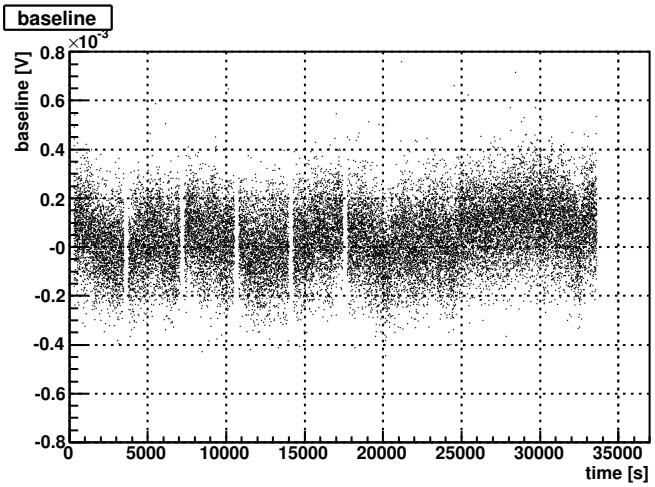


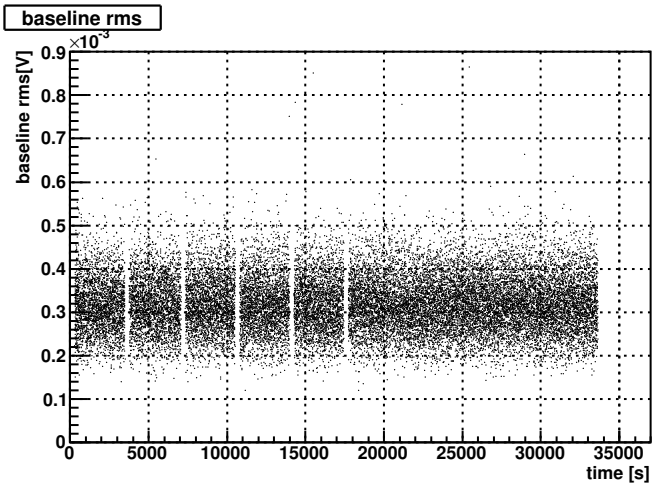
Occupancy vs Threshold, HV=1000V

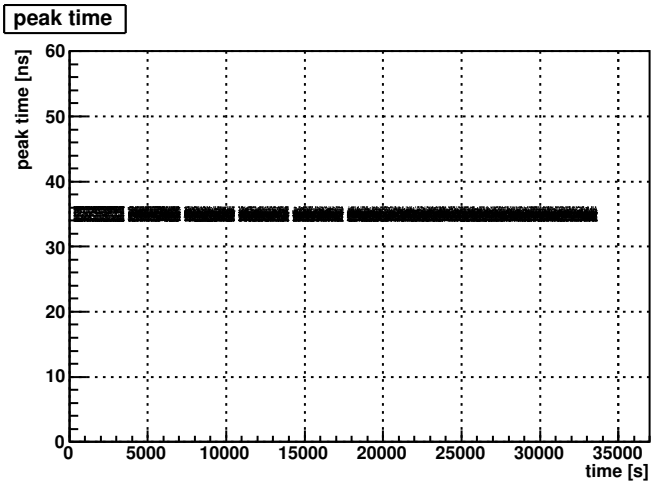


Efficiency vs Threshold, HV=1000V, U_{cut}=1.0mV




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_050909104943_Fotec402-A230-08_A230-10-measurement1.xls
Upper Diamond = A230-08, $\sim 500 \mu m$ thick, Au metailzation
Lower Diamond = A230-10, $\sim 500 \mu m$ thick, Au metailzation