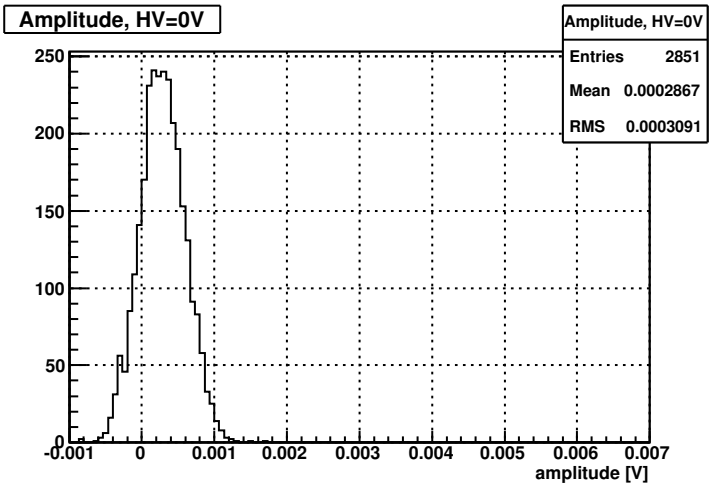
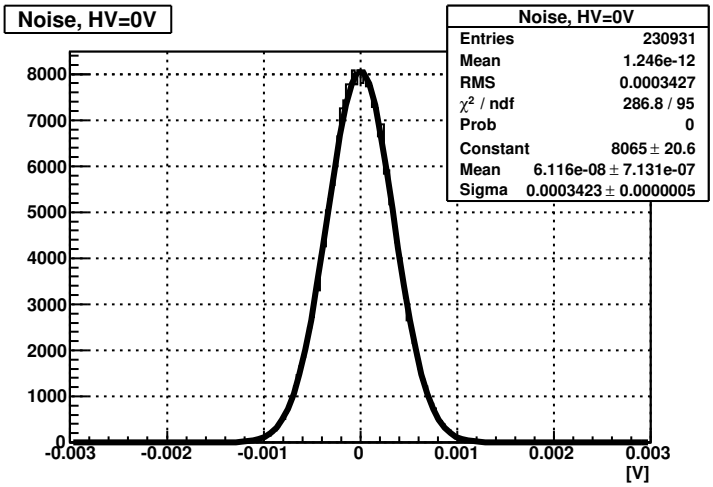
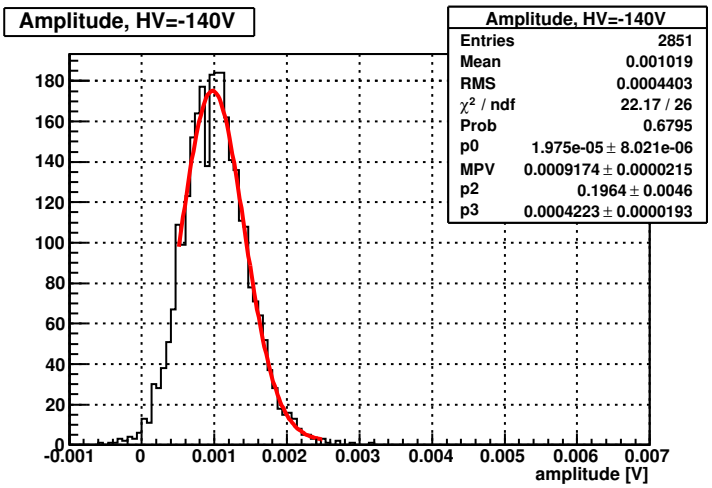
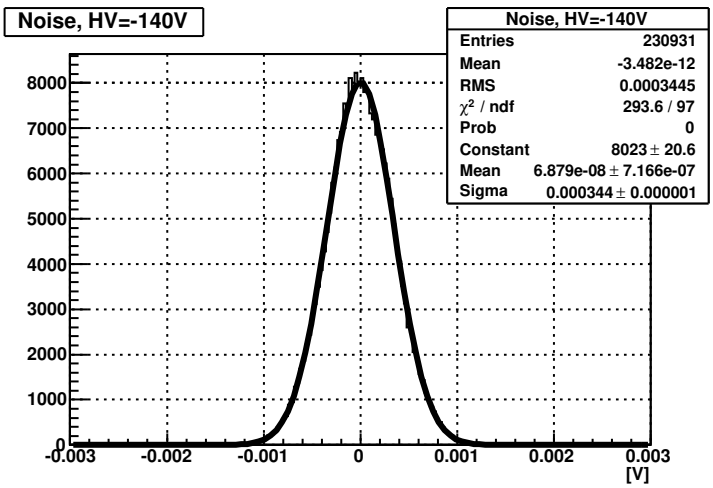
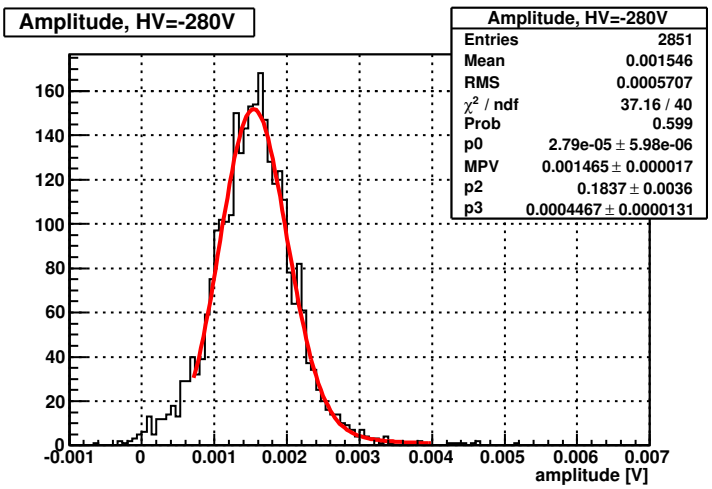
Fotec Box 403 (ASC-D-0230-7 and ASC-D-0230-5), Measurement 3 (200MHz BWL)

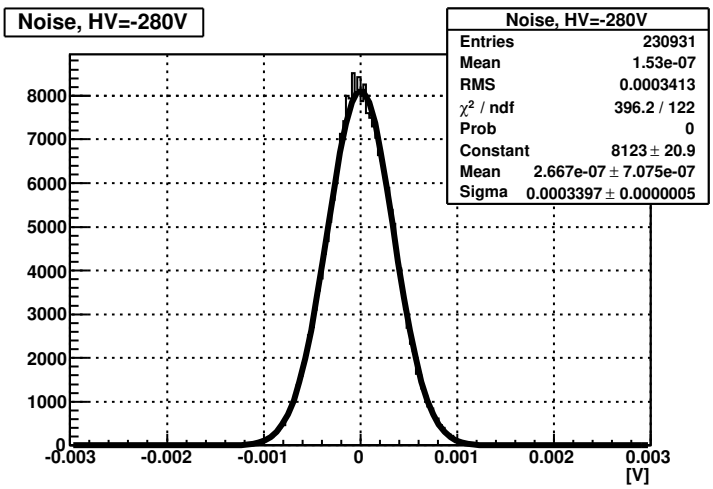


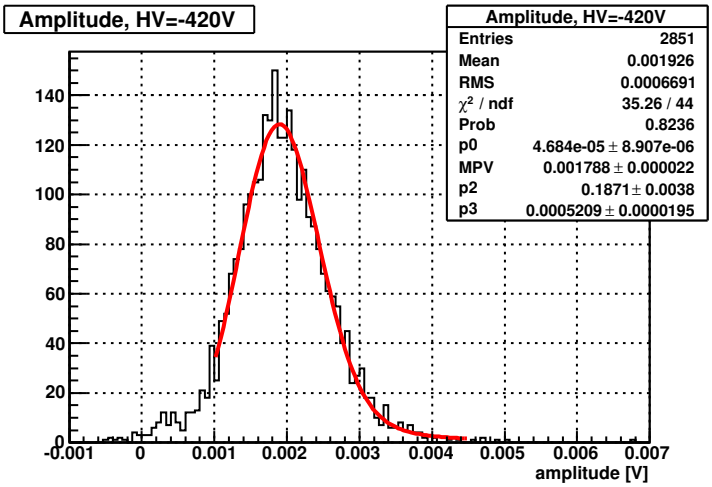


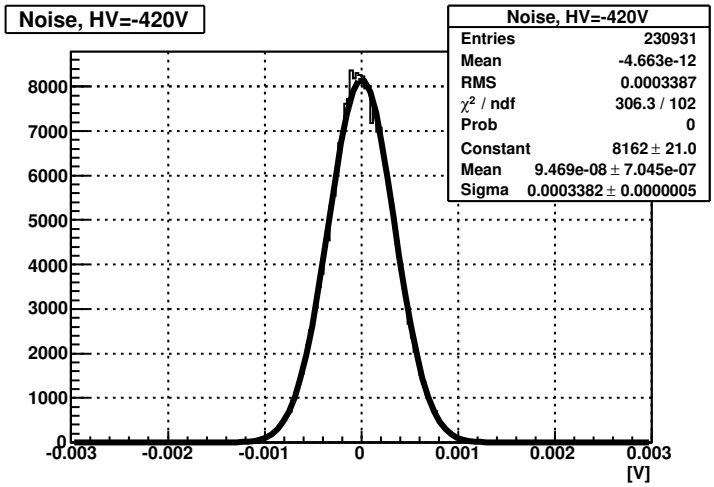


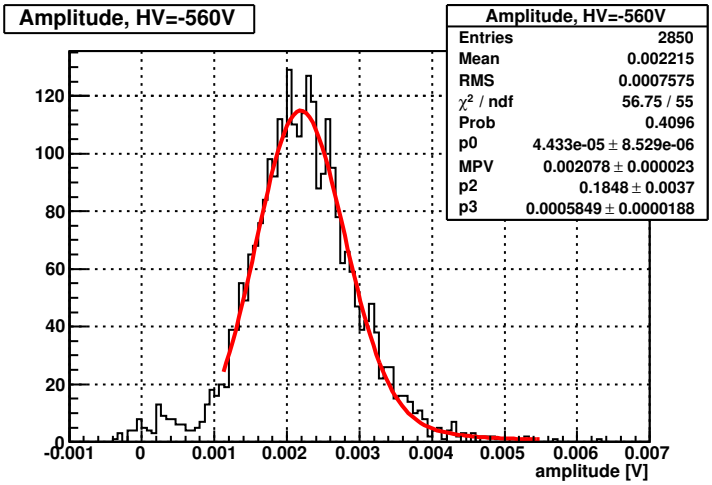


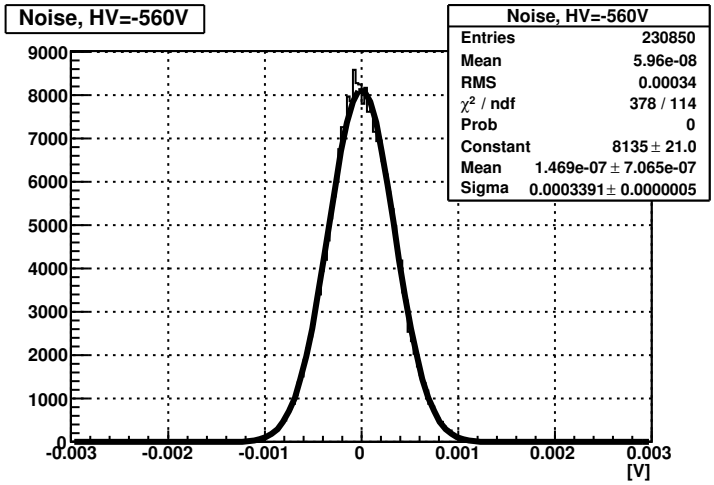


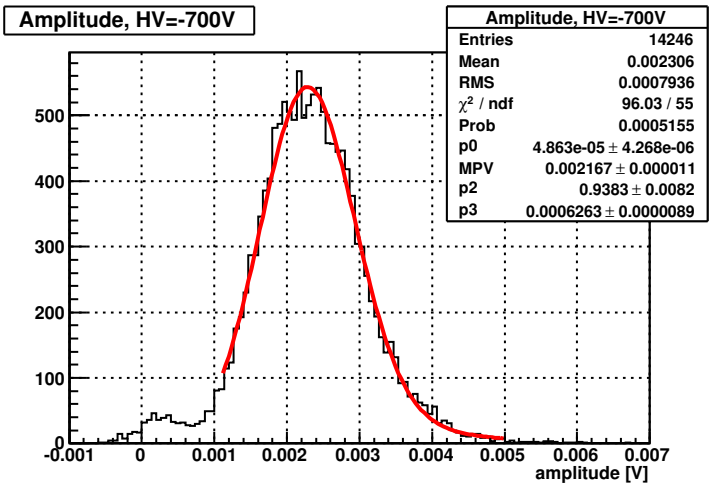


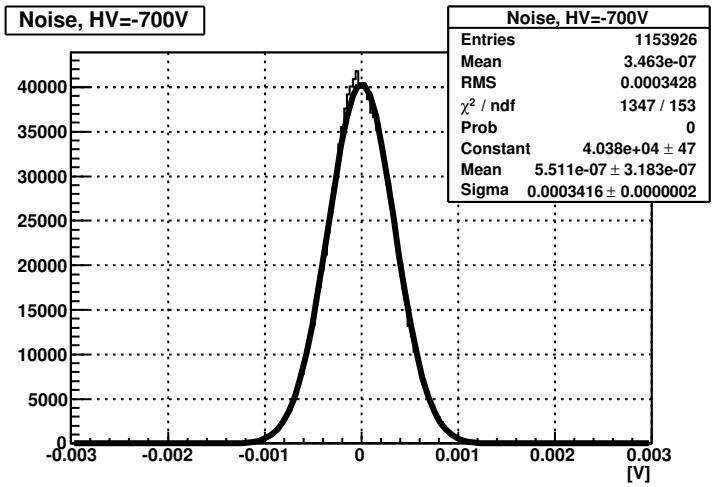

Amplitude, HV=-420V
Amplitude, HV=-420V
Entries 2851
Mean 0.001926
RMS 0.0006691
χ² / ndf 35.26 / 44
Prob 0.8236
p0 4.684e-05 ± 8.907e-06
MPV 0.001788 ± 0.000022
p2 0.1871 ± 0.0038
p3 0.0005209 ± 0.0000195
amplitude [V]


Noise, HV=-420V
Noise, HV=-420V
Entries 230931
Mean -4.663e-12
RMS 0.0003387
χ² / ndf 306.3 / 102
Prob 0
Constant 8162 ± 21.0
Mean 9.469e-08 ± 7.045e-07
Sigma 0.0003382 ± 0.0000005
[V]

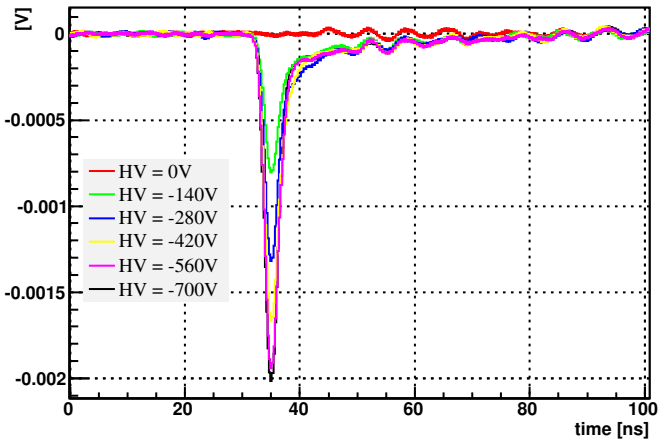

Amplitude, HV=-560V
Amplitude, HV=-560V
Entries 2850
Mean 0.002215
RMS 0.0007575
χ² / ndf 56.75 / 55
Prob 0.4096
p0 4.433e-05 ± 8.529e-06
MPV 0.002078 ± 0.000023
p2 0.1848 ± 0.0037
p3 0.0005849 ± 0.0000188
amplitude [V]

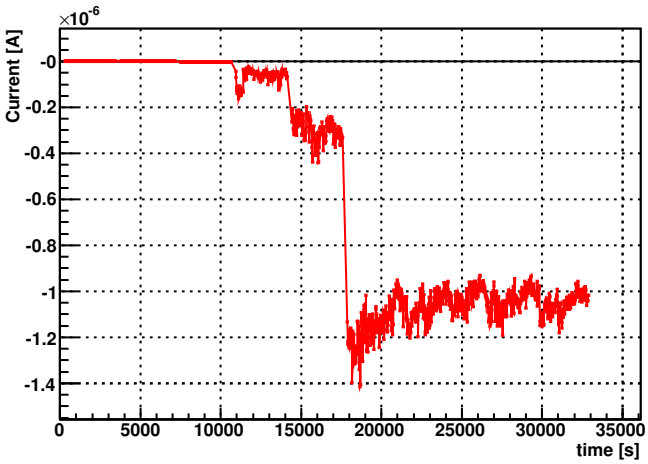

Noise, HV=-560V
Noise, HV=-560V
Entries 230850
Mean 5.96e-08
RMS 0.00034
χ² / ndf 378 / 114
Prob 0
Constant 8135 ± 21.0
Mean 1.469e-07 ± 7.065e-07
Sigma 0.0003391 ± 0.0000005
[V]


Amplitude, HV=-700V
Amplitude, HV=-700V
Entries 14246
Mean 0.002306
RMS 0.0007936
χ² / ndf 96.03 / 55
Prob 0.0005155
p0 4.863e-05 ± 4.268e-06
MPV 0.002167 ± 0.000011
p2 0.9383 ± 0.0082
p3 0.0006263 ± 0.0000089
amplitude [V]

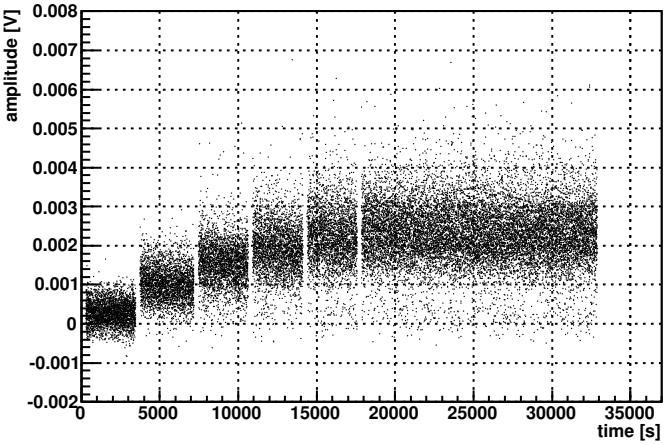

Noise, HV=-700V
Noise, HV=-700V
Entries 1153926
Mean 3.463e-07
RMS 0.0003428
χ² / ndf 1347 / 153
Prob 0
Constant 4.038e+04 ± 47
Mean 5.511e-07 ± 3.183e-07
Sigma 0.0003416 ± 0.0000002
[V]

Average event

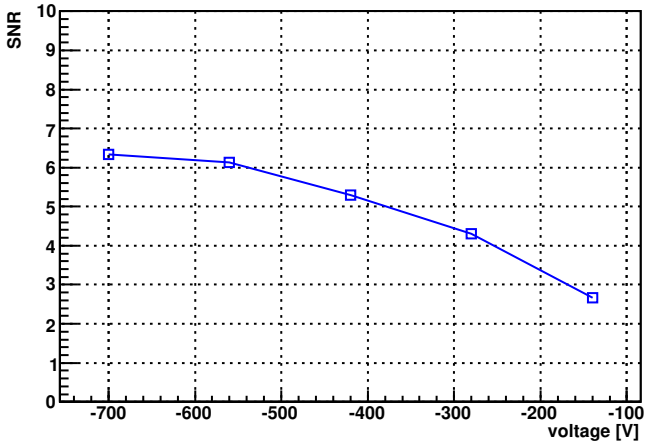




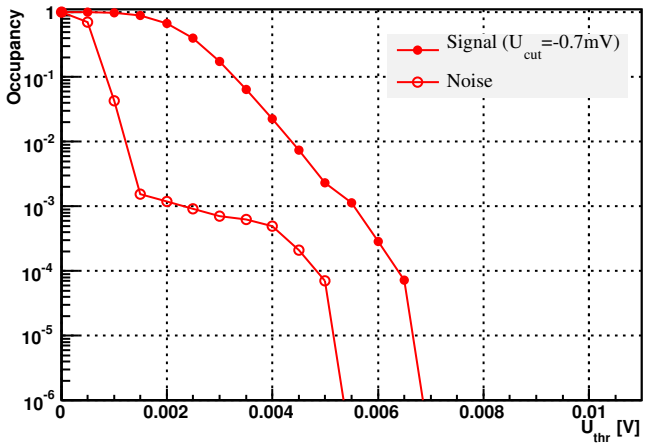
amplitudes



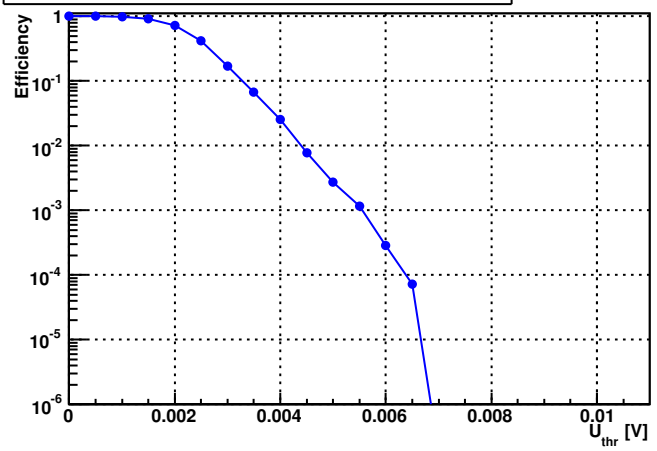
Signal to noise

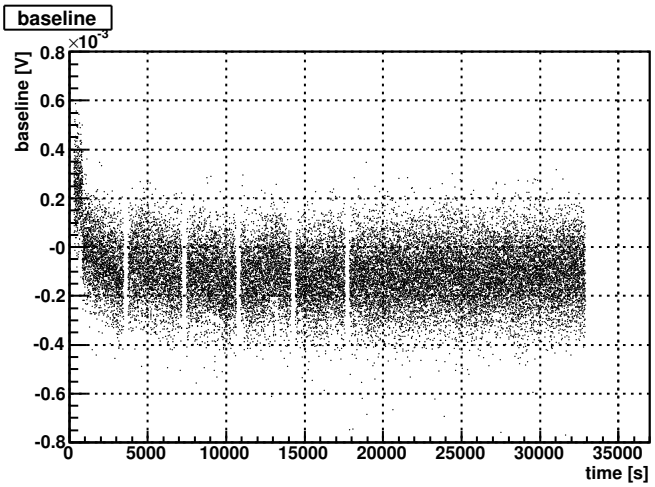


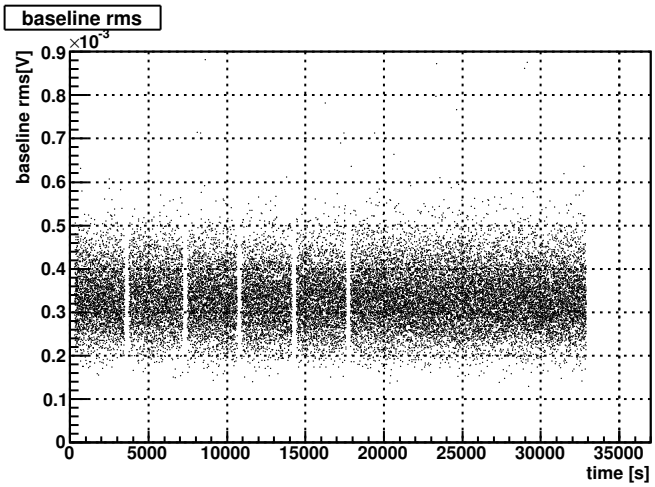
Occupancy vs Threshold, HV=-700V

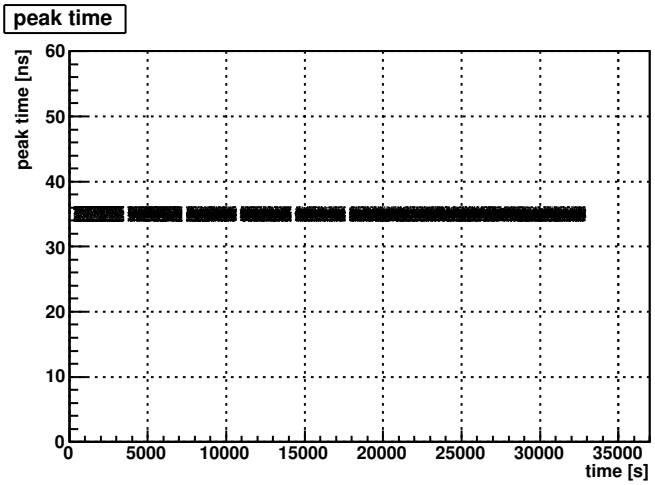


Efficiency vs Threshold, HV=1000V, U_{cut}=-0.7mV




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_050924173056_Fotec403-ASC-D-0230-7_ASC-D-0230-5-measurement3.xls
Upper Diamond = ASC-D-0230-7, $\sim 310 \mu m$ thick, Au metailzation
Lower Diamond = ASC-D-0230-5, $\sim 310 \mu m$ thick, Au metailzation