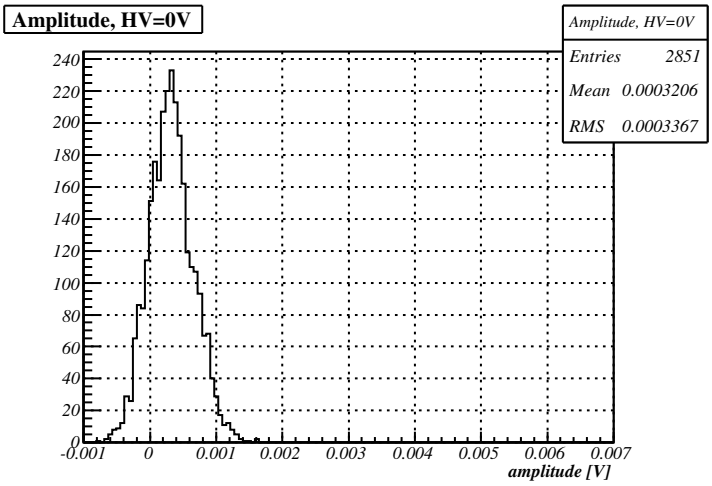
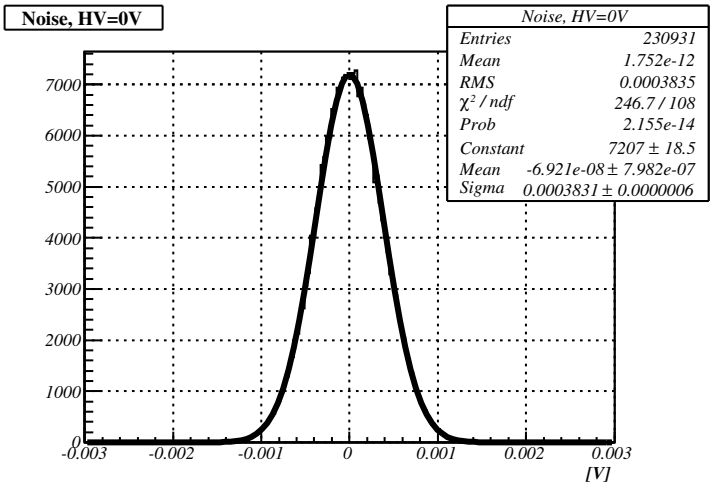
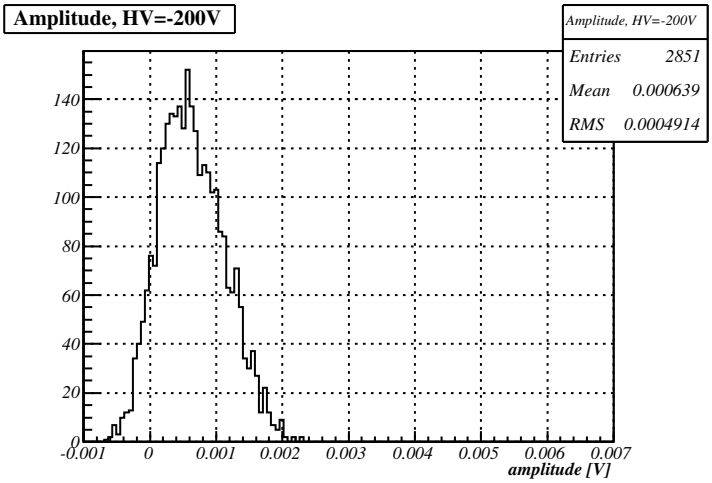
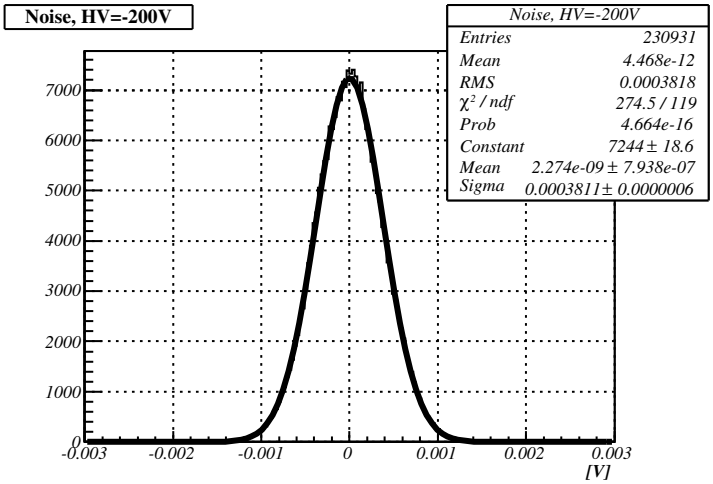
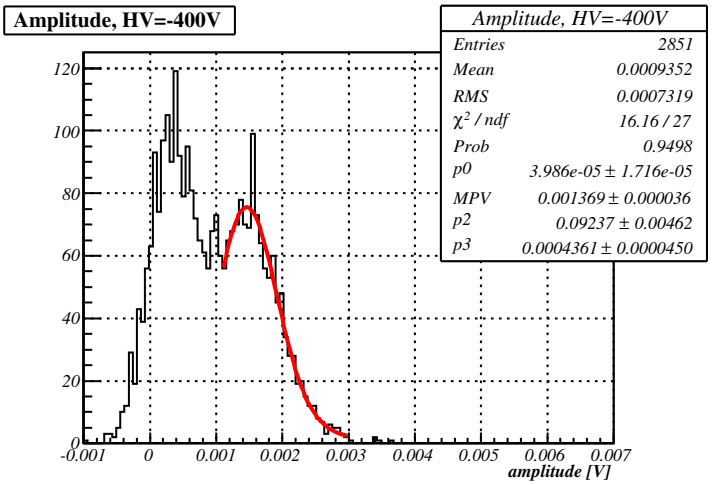
Fotec Box 404, (A230-9 and A422-6), Measurement 3 (BWL 200MHz)

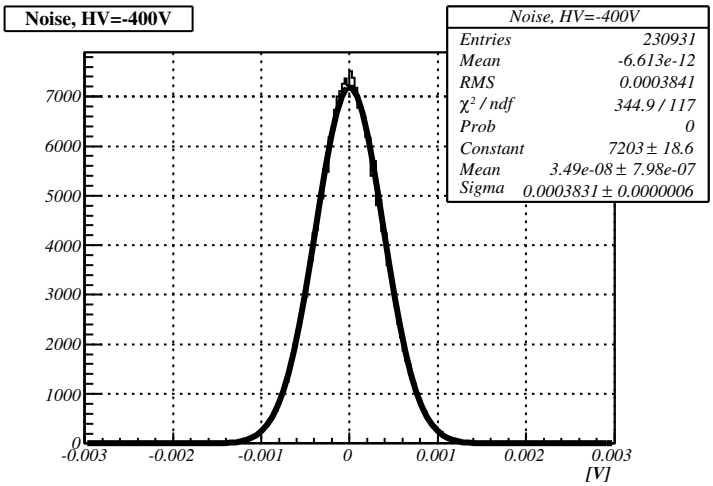


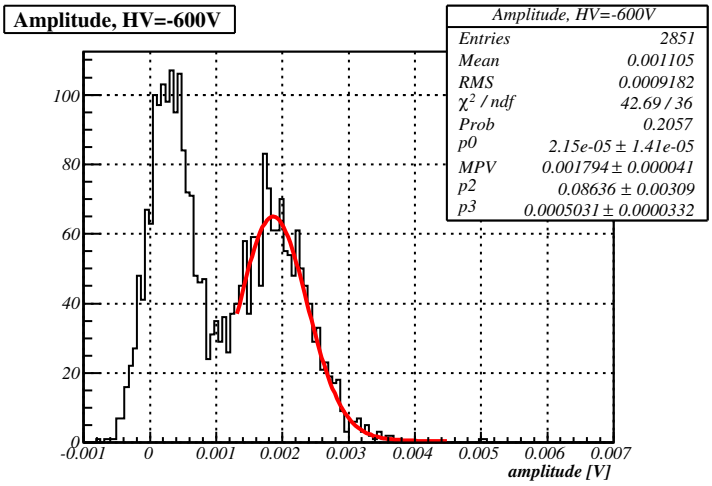


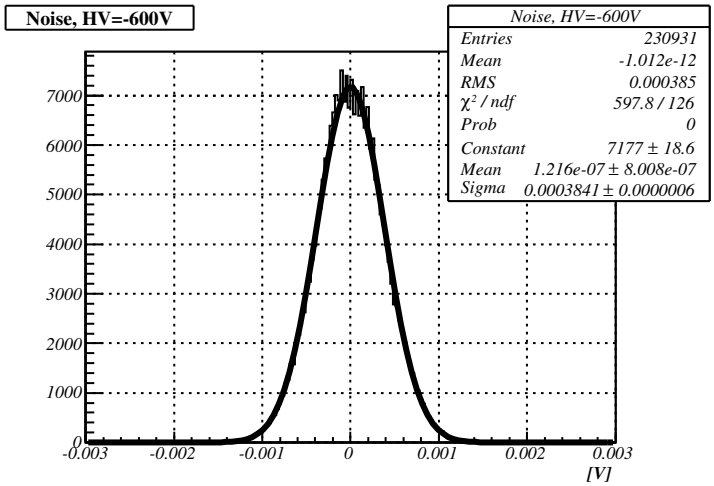


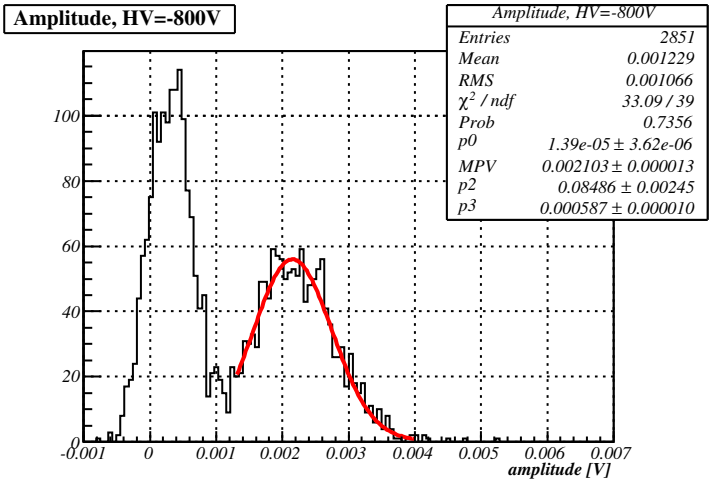


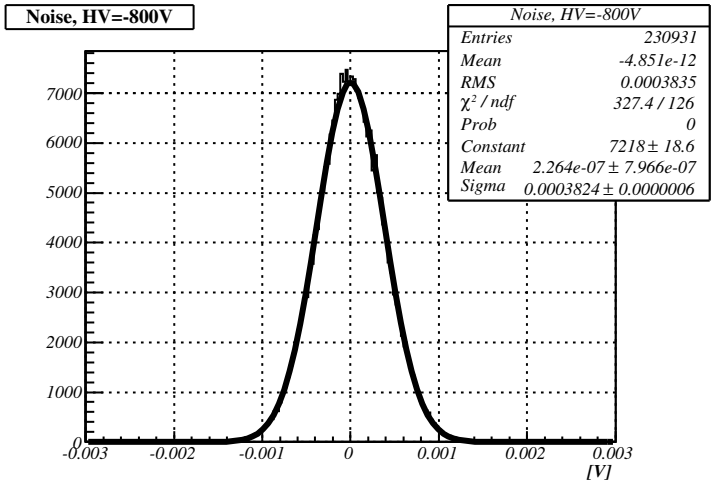


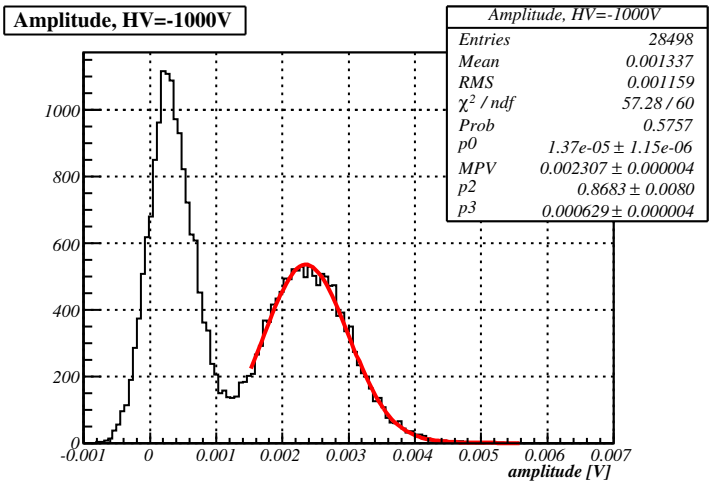


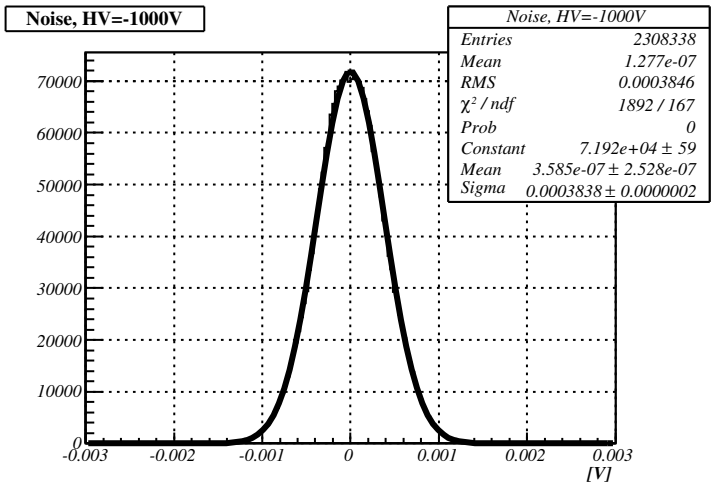

Amplitude, HV=-600V
Amplitude, HV=-600V
Entries 2851
Mean 0.001105
RMS 0.0009182
χ² / ndf 42.69 / 36
Prob 0.2057
p0 2.15e-05 ± 1.41e-05
MPV 0.001794 ± 0.000041
p2 0.08636 ± 0.00309
p3 0.0005031 ± 0.0000332
amplitude [V]


Noise, HV=-600V
Noise, HV=-600V
Entries 230931
Mean -1.012e-12
RMS 0.000385
χ² / ndf 597.8 / 126
Prob 0
Constant 7177 ± 18.6
Mean 1.216e-07 ± 8.008e-07
Sigma 0.0003841 ± 0.0000006
[V]

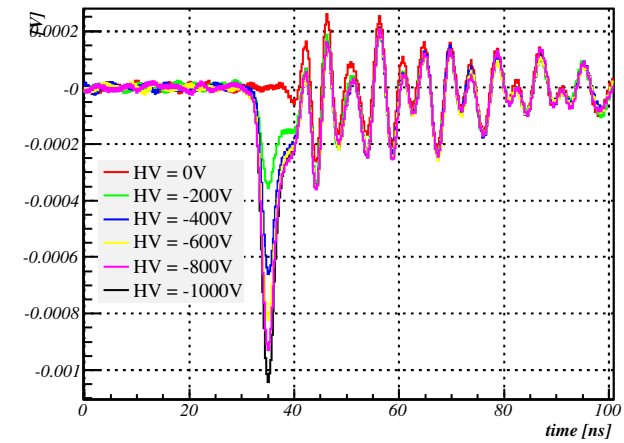

Amplitude, HV=-800V
Amplitude, HV=-800V
Entries 2851
Mean 0.001229
RMS 0.001066
χ² / ndf 33.09 / 39
Prob 0.7356
p0 1.39e-05 ± 3.62e-06
MPV 0.002103 ± 0.000013
p2 0.08486 ± 0.00245
p3 0.000587 ± 0.000010
amplitude [V]

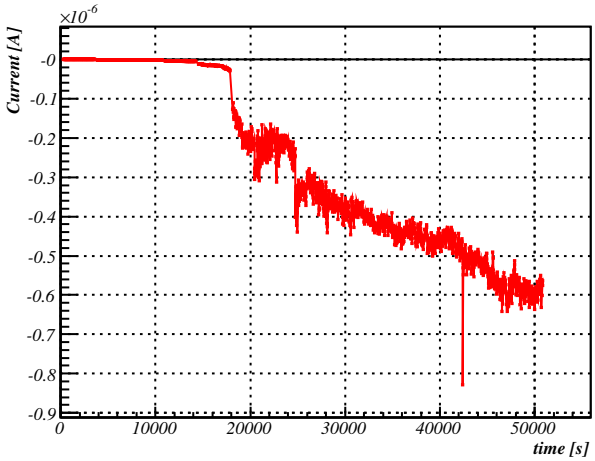

Noise, HV=-800V
Noise, HV=-800V
Entries 230931
Mean -4.851e-12
RMS 0.0003835
χ² / ndf 327.4 / 126
Prob 0
Constant 7218 ± 18.6
Mean 2.264e-07 ± 7.966e-07
Sigma 0.0003824 ± 0.0000006
[V]


Amplitude, HV=-1000V
Amplitude, HV=-1000V
Entries 28498
Mean 0.001337
RMS 0.001159
χ² / ndf 57.28 / 60
Prob 0.5757
p0 1.37e-05 ± 1.15e-06
MPV 0.002307 ± 0.000004
p2 0.8683 ± 0.0080
p3 0.000629 ± 0.000004
amplitude [V]

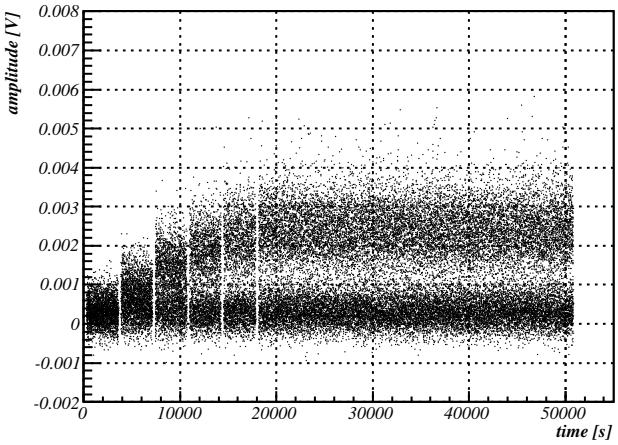

Noise, HV=-1000V
Noise, HV=-1000V
Entries 2308338
Mean 1.277e-07
RMS 0.0003846
χ² / ndf 1892 / 167
Prob 0
Constant 7.192e+04 ± 59
Mean 3.585e-07 ± 2.528e-07
Sigma 0.0003838 ± 0.0000002
[V]

Average event

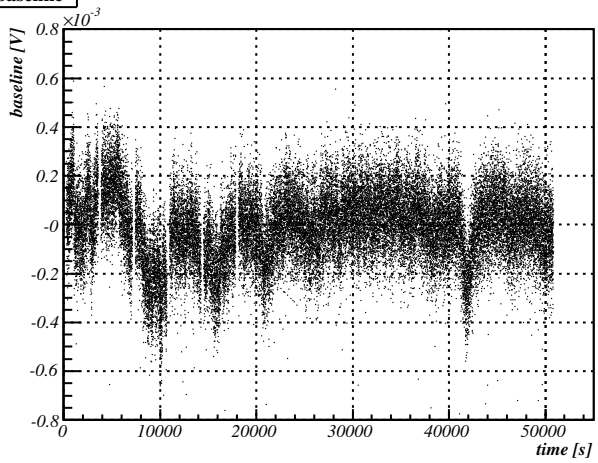




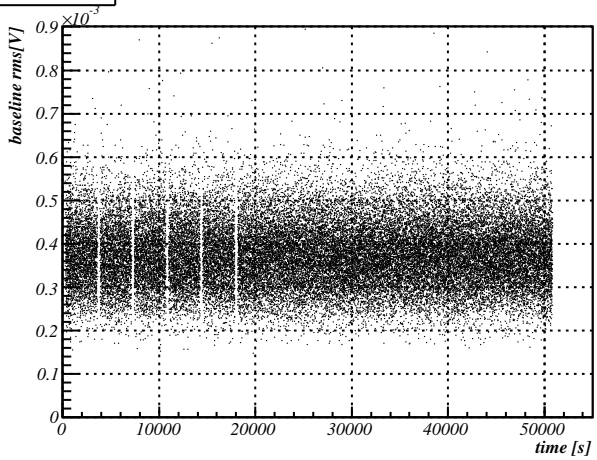
amplitudes



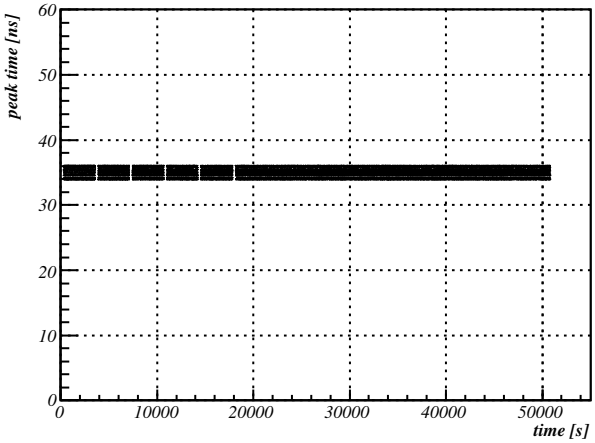
baseline



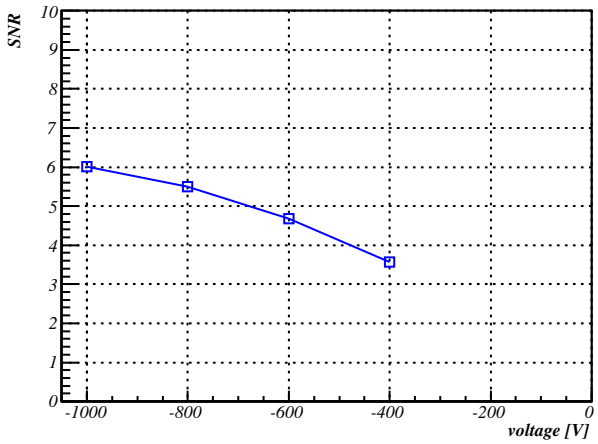
baseline rms



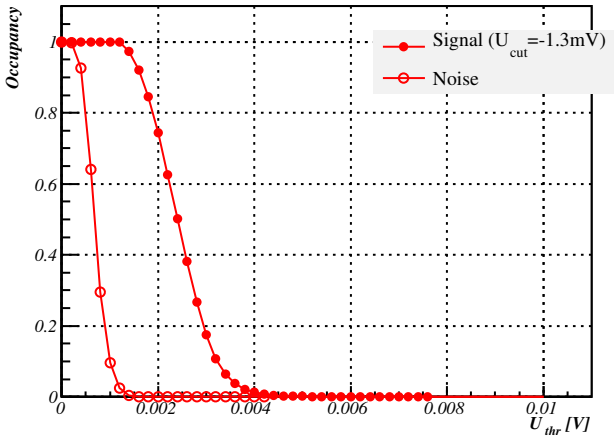
peak time



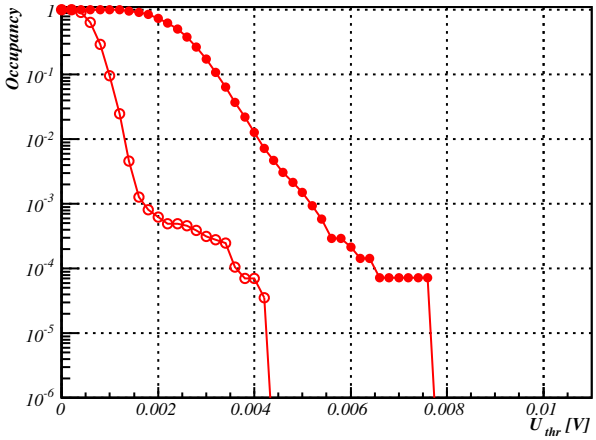
Signal to noise



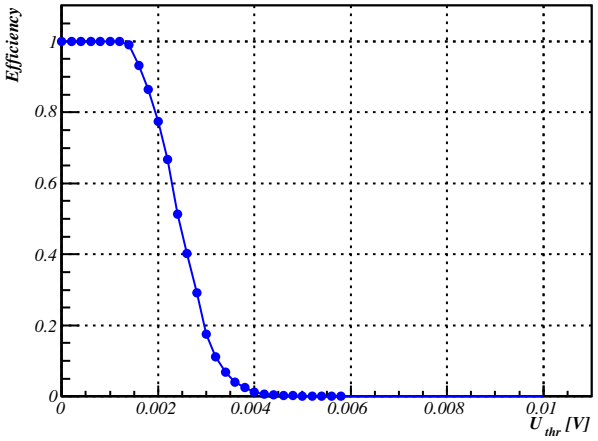
Occupancy vs Threshold, HV=-1000V



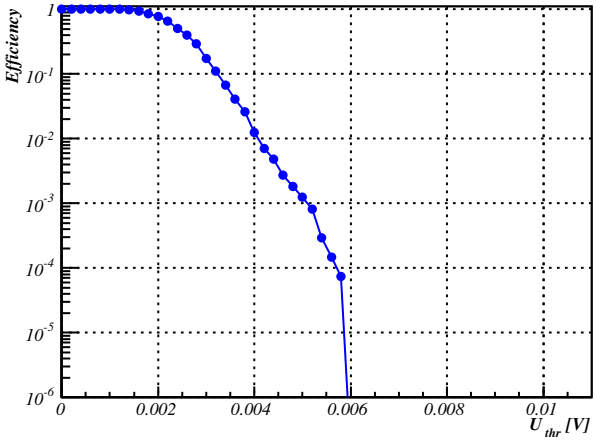
Occupancy vs Threshold, HV=-1000V



Efficiency vs Threshold, HV=1000V, U_{cut}=-1.3mV



Efficiency vs Threshold, HV=1000V, U_{cut}=-1.3mV



Data File = SP_060531123332_Fotec404_A230-9_A422-6_measurement3.xls
Upper Diamond = A230-9
Lower Diamond = A422-6
Maček ceramic Ass. #9
New HV/LV cable. But one pin (orange cable) maybe disconnected.