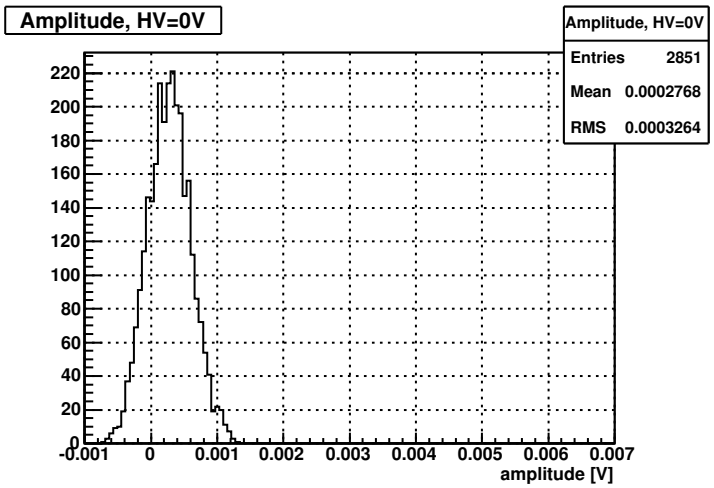
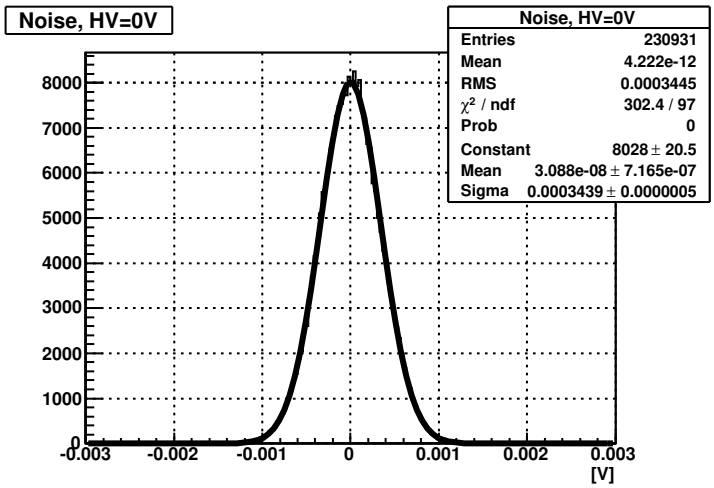
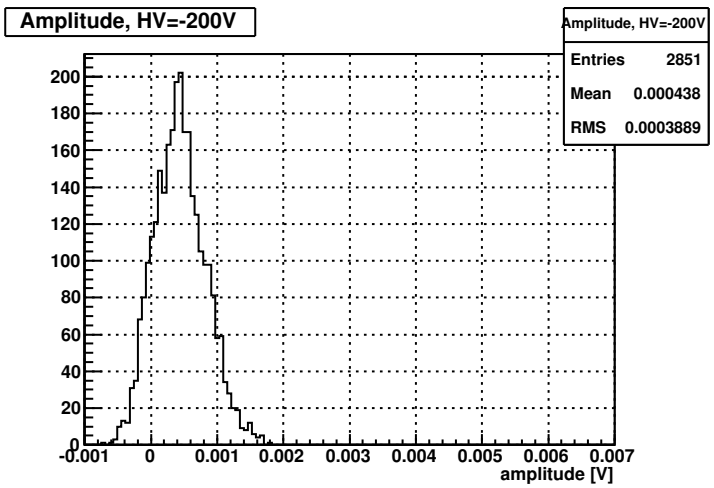
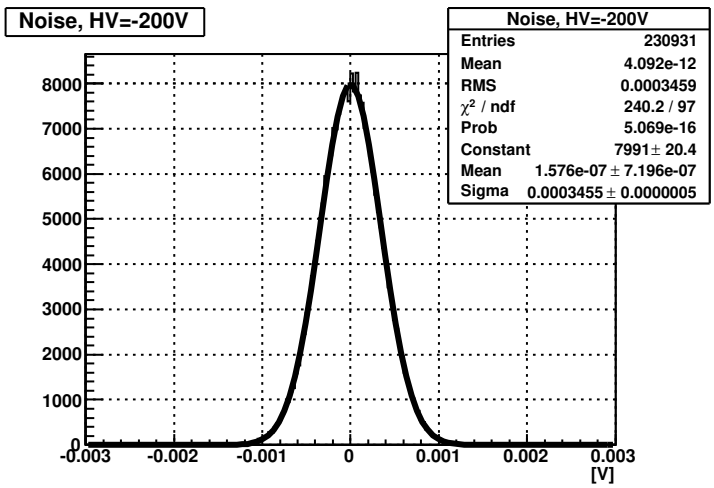
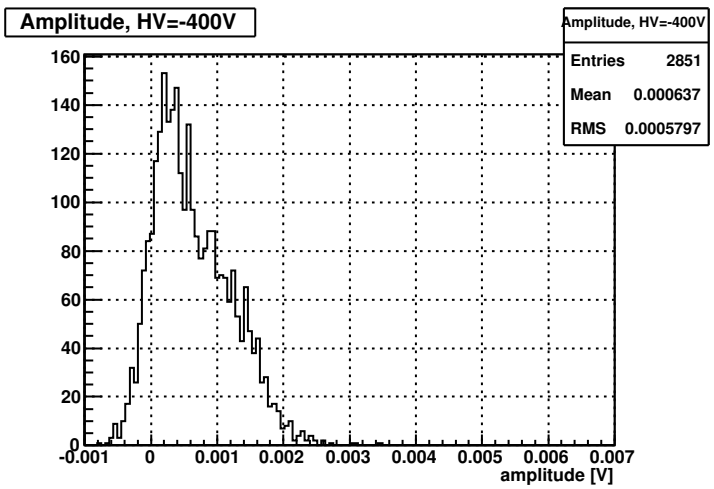
Fotec Box 408, (A382-11 and A382-8), Measurement 3 (BWL 200MHz)

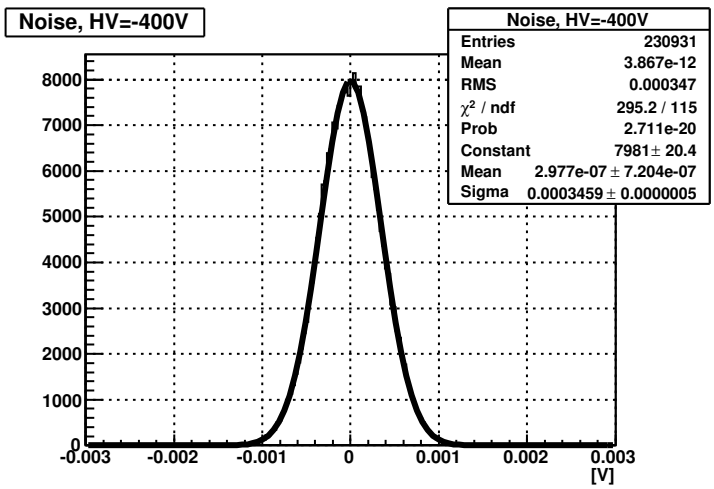


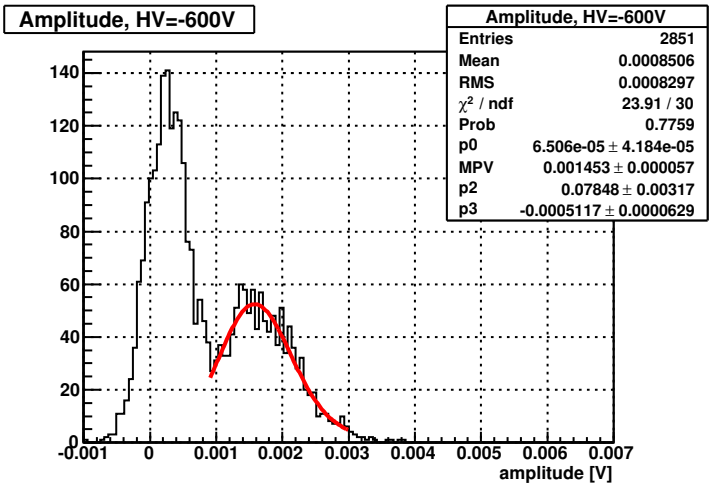


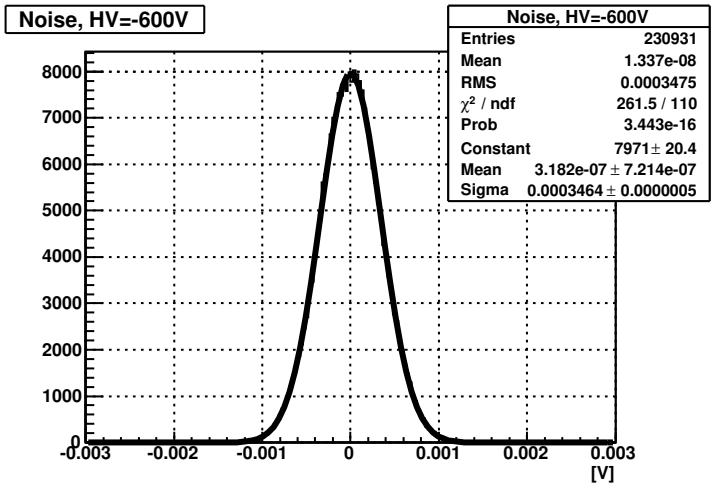


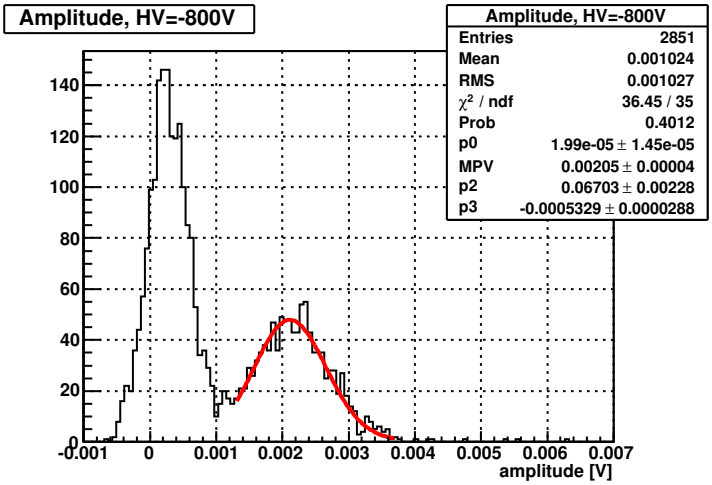


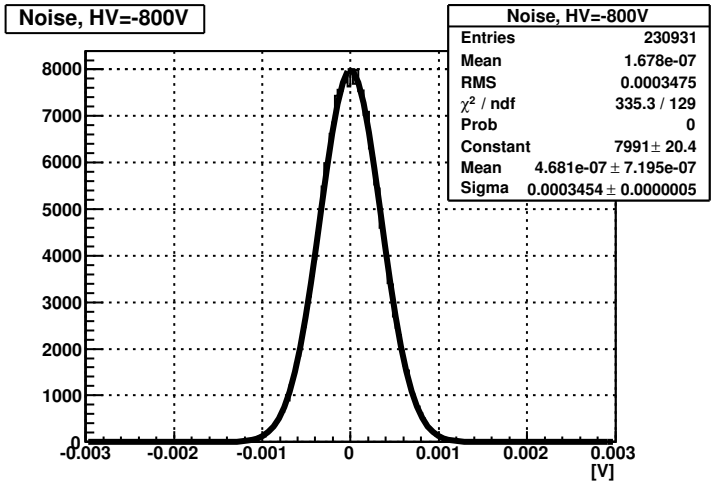


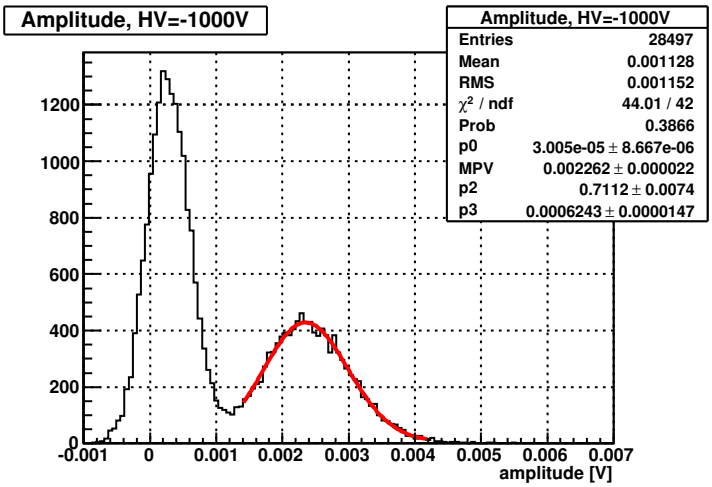


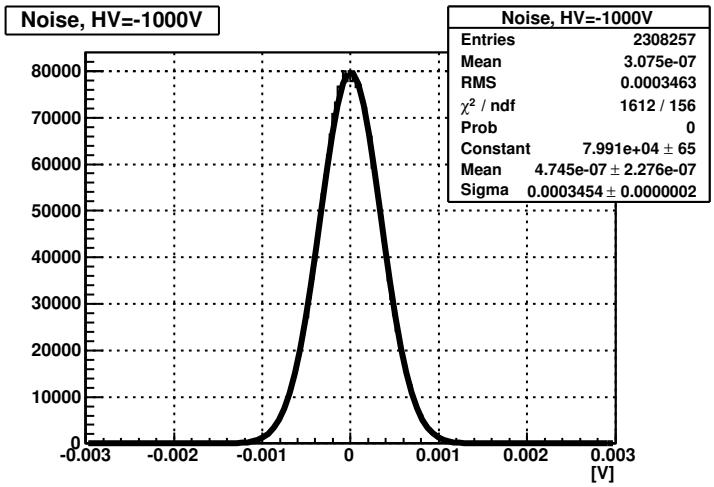

Amplitude, HV=-600V
Amplitude, HV=-600V
Entries 2851
Mean 0.0008506
RMS 0.0008297
χ² / ndf 23.91 / 30
Prob 0.7759
p0 6.506e-05 ± 4.184e-05
MPV 0.001453 ± 0.000057
p2 0.07848 ± 0.00317
p3 -0.0005117 ± 0.0000629
amplitude [V]

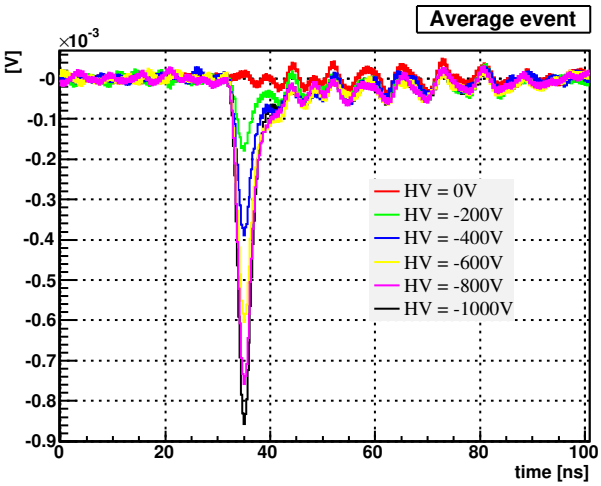

Noise, HV=-600V
Noise, HV=-600V
Entries 230931
Mean 1.337e-08
RMS 0.0003475
χ² / ndf 261.5 / 110
Prob 3.443e-16
Constant 7971 ± 20.4
Mean 3.182e-07 ± 7.214e-07
Sigma 0.0003464 ± 0.0000005
[V]

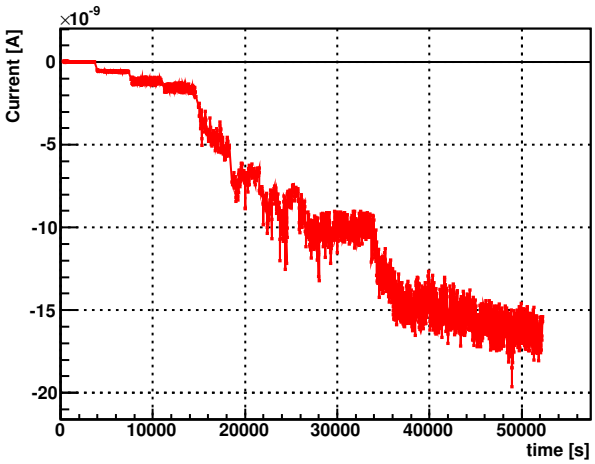

Amplitude, HV=-800V
Amplitude, HV=-800V
Entries 2851
Mean 0.001024
RMS 0.001027
χ² / ndf 36.45 / 35
Prob 0.4012
p0 1.99e-05 ± 1.45e-05
MPV 0.00205 ± 0.00004
p2 0.06703 ± 0.00228
p3 -0.0005329 ± 0.0000288
amplitude [V]

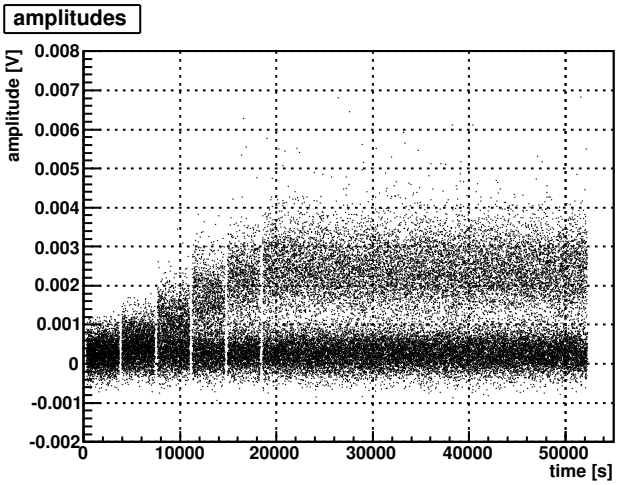

Noise, HV=-800V
Noise, HV=-800V
Entries 230931
Mean 1.678e-07
RMS 0.0003475
χ² / ndf 335.3 / 129
Prob 0
Constant 7991 ± 20.4
Mean 4.681e-07 ± 7.195e-07
Sigma 0.0003454 ± 0.0000005
[V]

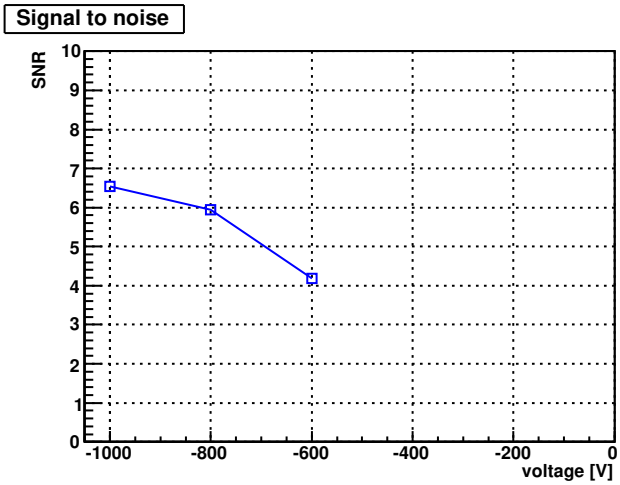

Amplitude, HV=-1000V
Amplitude, HV=-1000V
Entries 28497
Mean 0.001128
RMS 0.001152
χ² / ndf 44.01 / 42
Prob 0.3866
p0 3.005e-05 ± 8.667e-06
MPV 0.002262 ± 0.000022
p2 0.7112 ± 0.0074
p3 0.0006243 ± 0.0000147
amplitude [V]

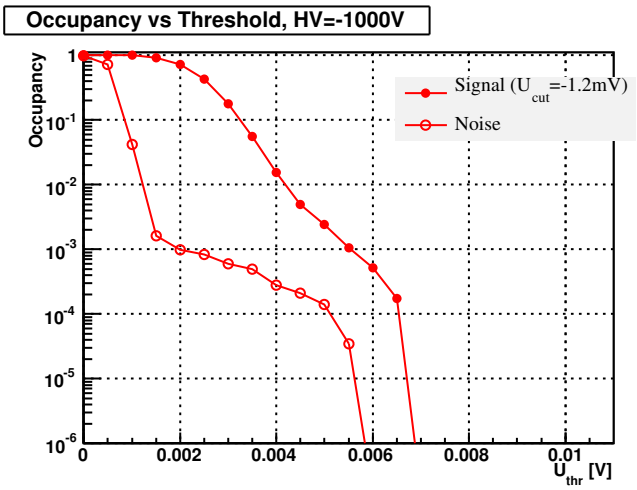

Noise, HV=-1000V
Noise, HV=-1000V
Entries 2308257
Mean 3.075e-07
RMS 0.0003463
χ² / ndf 1612 / 156
Prob 0
Constant 7.991e+04 ± 65
Mean 4.745e-07 ± 2.276e-07
Sigma 0.0003454 ± 0.0000002
[V]

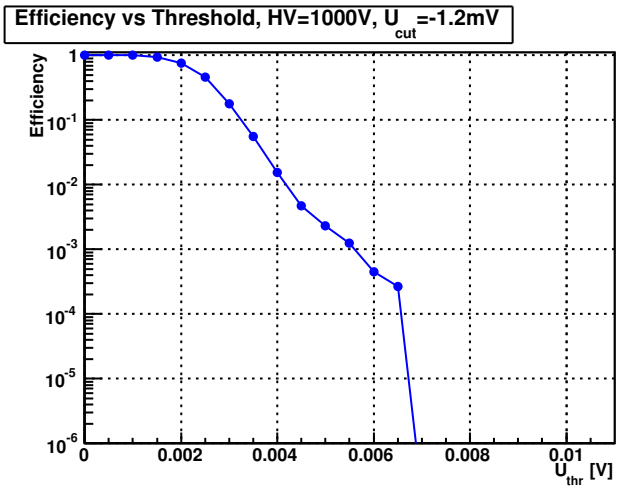

Average event
×10^-3
[V]
time [ns]
HV = 0V
HV = -200V
HV = -400V
HV = -600V
HV = -800V
HV = -1000V


×10^-9
Current [A]
time [s]

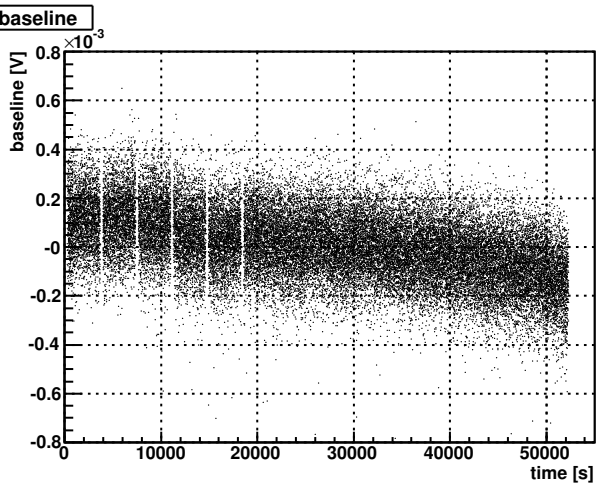

amplitudes
amplitude [V]
time [s]


Signal to noise
SNR
voltage [V]

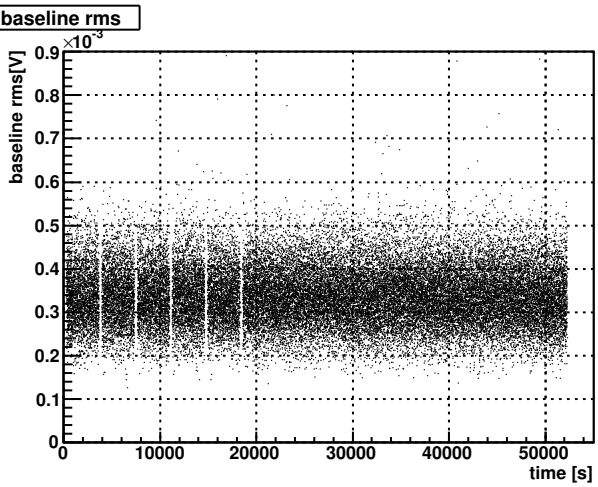

Occupancy vs Threshold, HV=-1000V
Occupancy
Signal (U_cut=-1.2mV)
Noise
U_thr [V]


Efficiency vs Threshold, HV=1000V, U_cut=-1.2mV
Efficiency
U_thr [V]

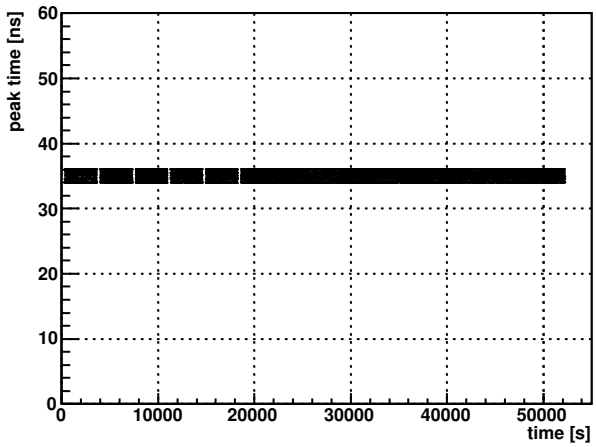
baseline



baseline rms



peak time



Data File = SP_060318160335_Fotec408_A382-11_A382-8_Measurement3.xls
Upper Diamond = A382-11
Lower Diamond = A382-8
Maček ceramic Ass. #1