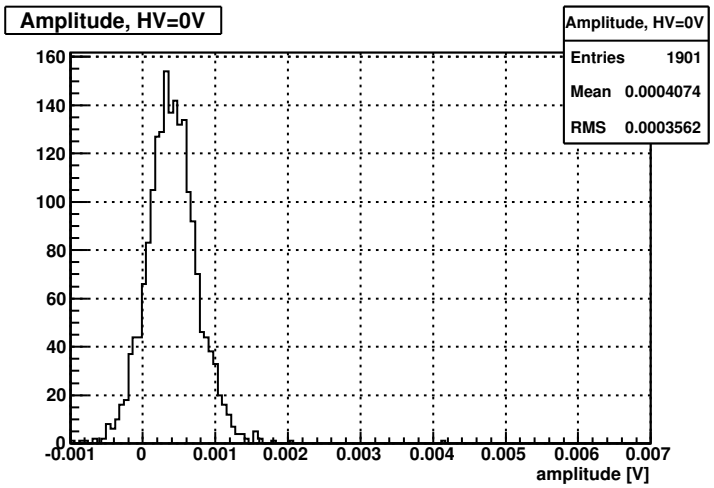
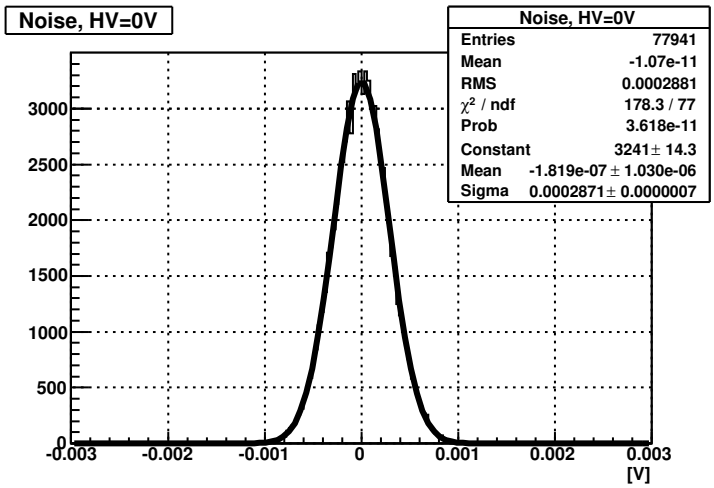
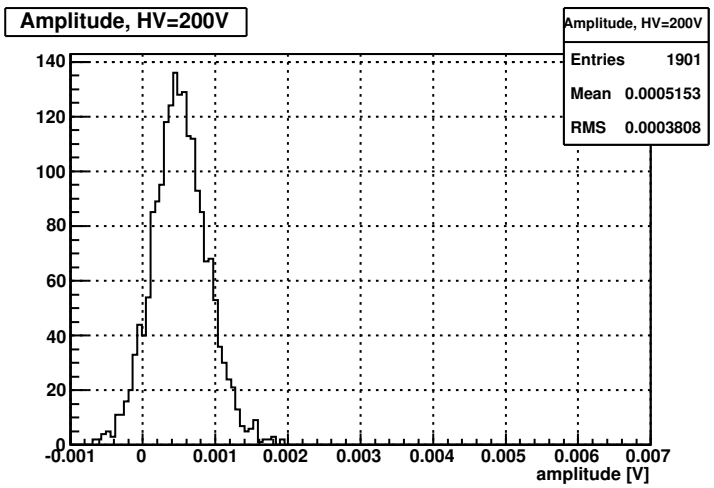
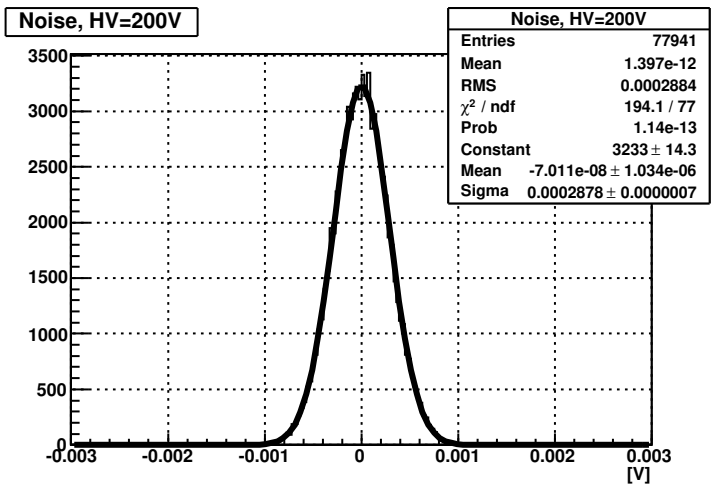
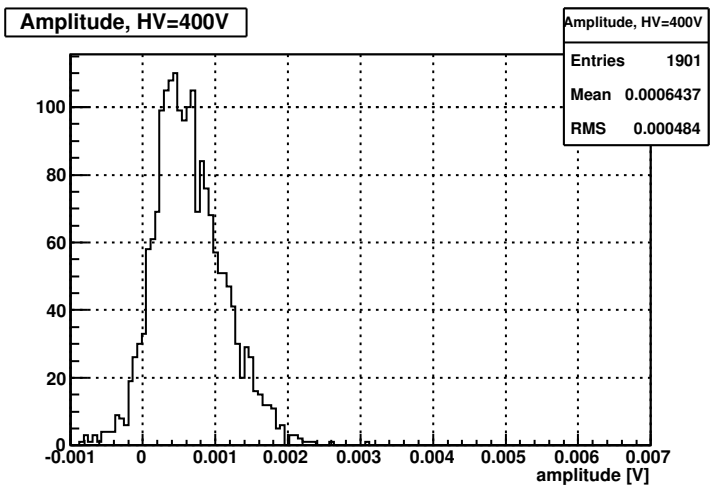
Fotec Box 408, (A382-11 and A382-8), Measurement 1 (BWL 200MHz)

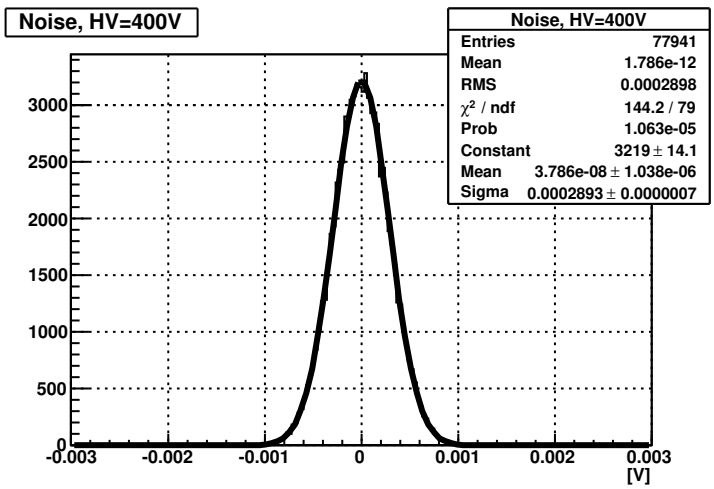


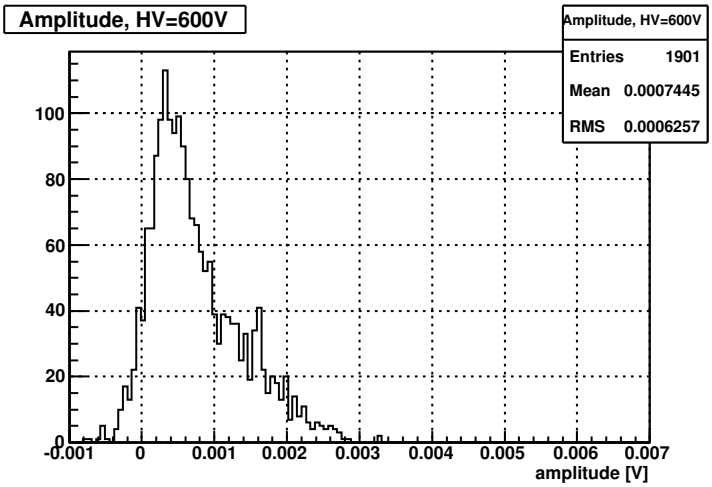


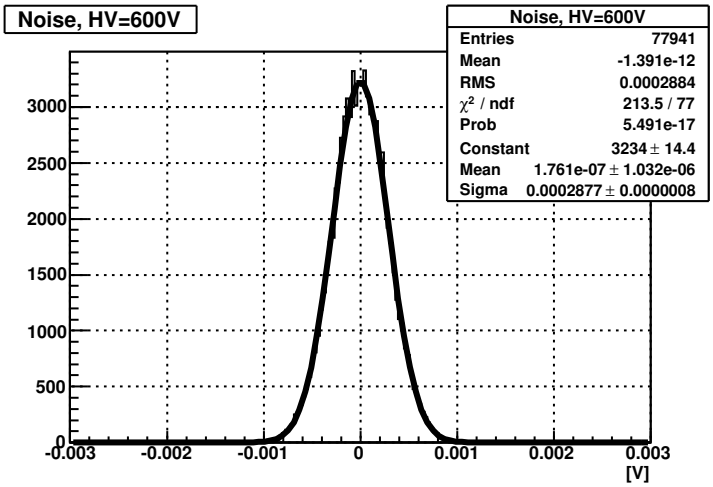


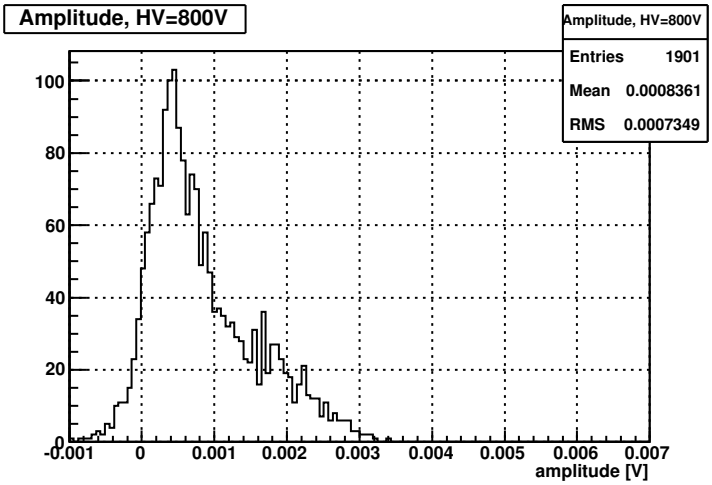


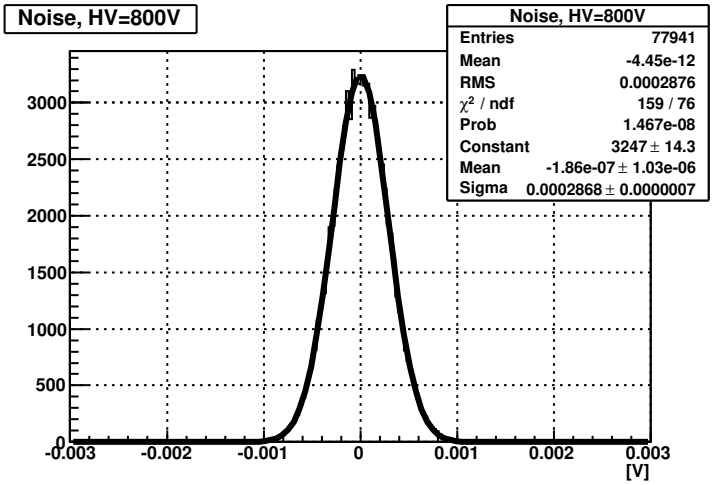


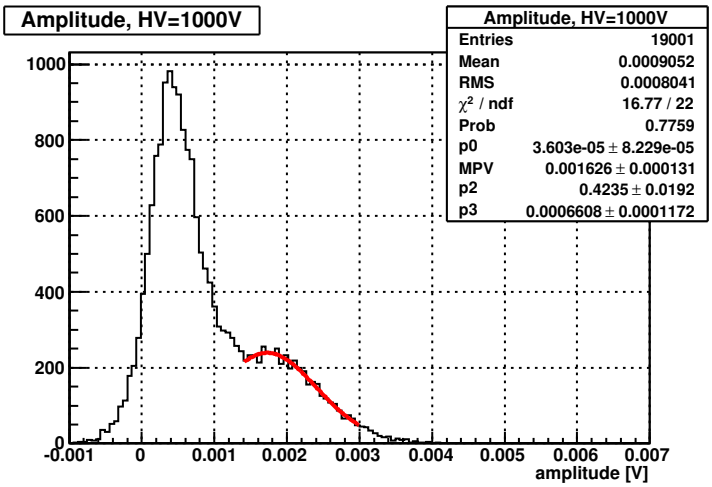


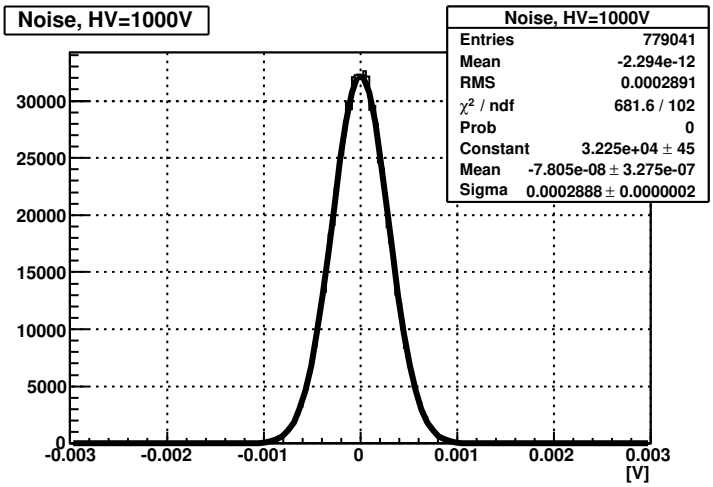

Amplitude, HV=600V
Amplitude, HV=600V
Entries 1901
Mean 0.0007445
RMS 0.0006257
amplitude [V]

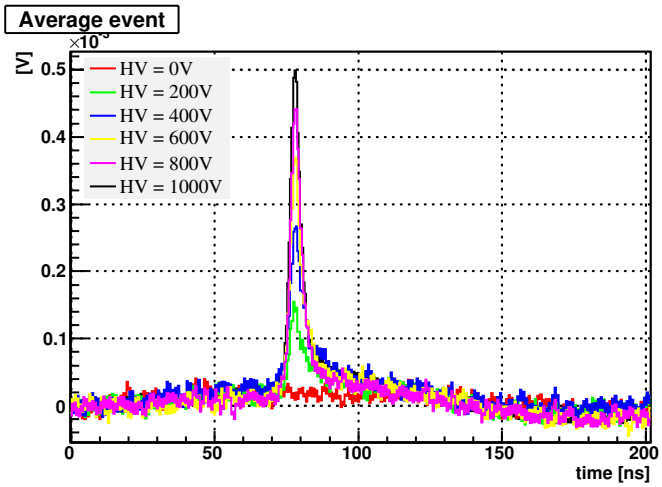

Noise, HV=600V
Noise, HV=600V
Entries 77941
Mean -1.391e-12
RMS 0.0002884
χ² / ndf 213.5 / 77
Prob 5.491e-17
Constant 3234 ± 14.4
Mean 1.761e-07 ± 1.032e-06
Sigma 0.0002877 ± 0.0000008
[V]

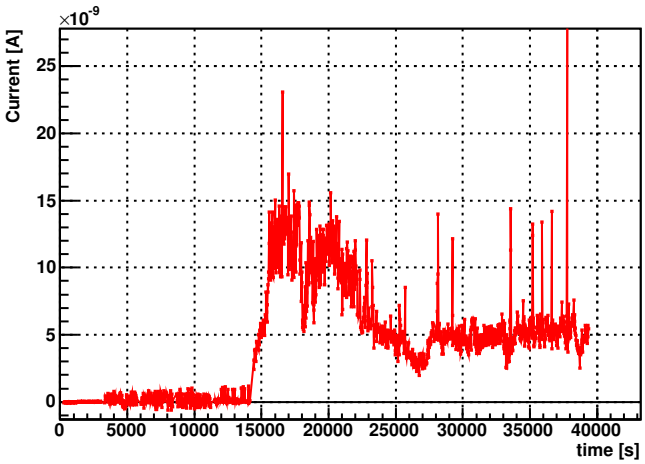

Amplitude, HV=800V
Amplitude, HV=800V
Entries 1901
Mean 0.0008361
RMS 0.0007349
amplitude [V]

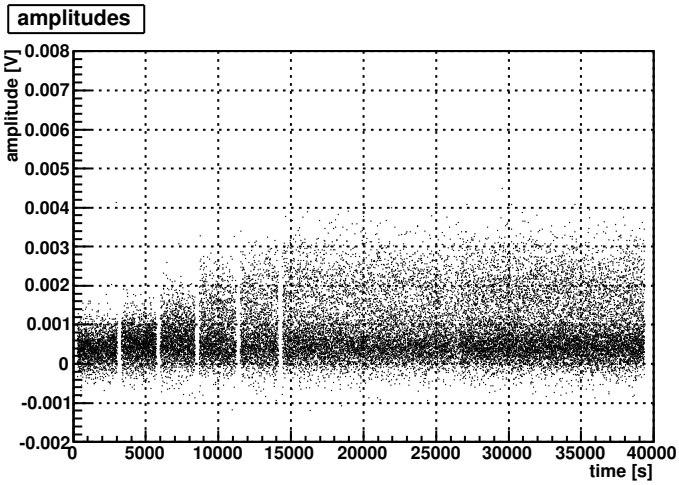

Noise, HV=800V
Noise, HV=800V
Entries 77941
Mean -4.45e-12
RMS 0.0002876
χ² / ndf 159 / 76
Prob 1.467e-08
Constant 3247 ± 14.3
Mean -1.86e-07 ± 1.03e-06
Sigma 0.0002868 ± 0.0000007
[V]

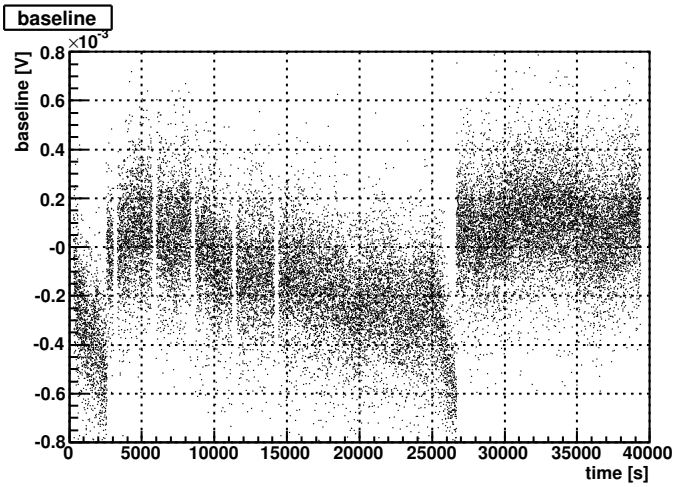

Amplitude, HV=1000V
Amplitude, HV=1000V
Entries 19001
Mean 0.0009052
RMS 0.0008041
χ² / ndf 16.77 / 22
Prob 0.7759
p0 3.603e-05 ± 8.229e-05
MPV 0.001626 ± 0.000131
p2 0.4235 ± 0.0192
p3 0.0006608 ± 0.0001172
amplitude [V]

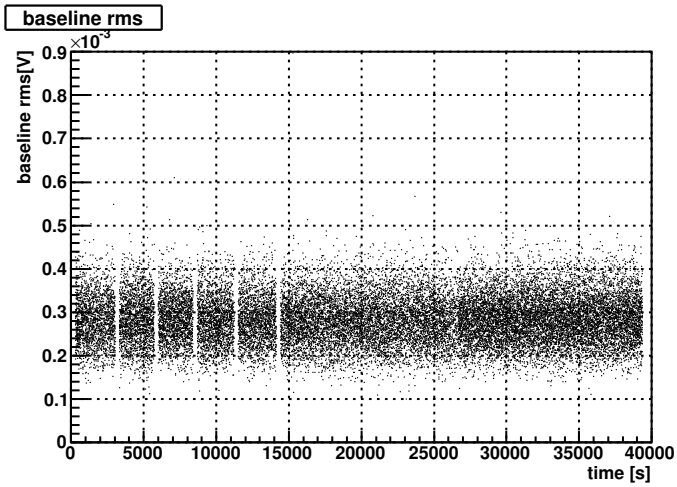

Noise, HV=1000V
Noise, HV=1000V
Entries 779041
Mean -2.294e-12
RMS 0.0002891
χ² / ndf 681.6 / 102
Prob 0
Constant 3.225e+04 ± 45
Mean -7.805e-08 ± 3.275e-07
Sigma 0.0002888 ± 0.0000002
[V]

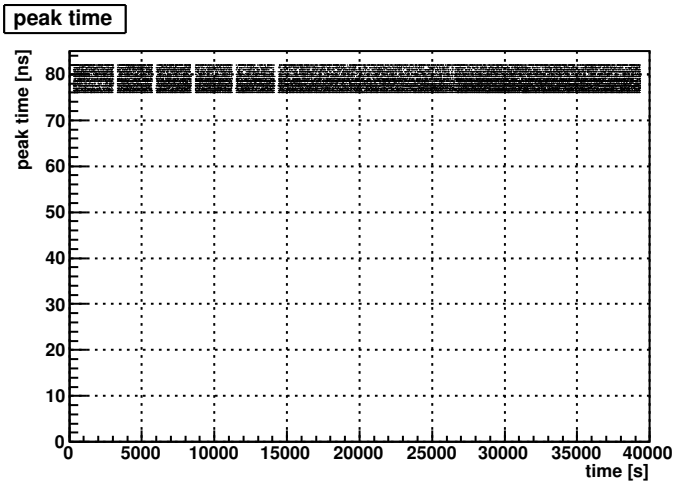

Average event
×10⁻³
[V]
HV = 0V
HV = 200V
HV = 400V
HV = 600V
HV = 800V
HV = 1000V
time [ns]


×10⁻⁹
Current [A]
time [s]


amplitudes
amplitude [V]
time [s]


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_060328175027_Fotec408_A382-11_A382-8_Magnet-vertical.xls
Upper Diamond = A382-11
Lower Diamond = A382-8
Maček ceramic Ass. #1
Box is in a magnetic field (CERN T11, $B = 1.64T$) during the measurement. Magnetic field paralel to drift. Trigger is Fotec box 410 with Si Diode.