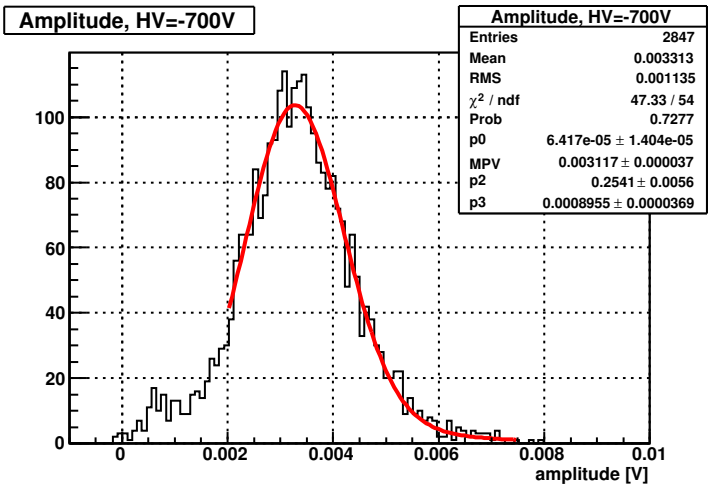
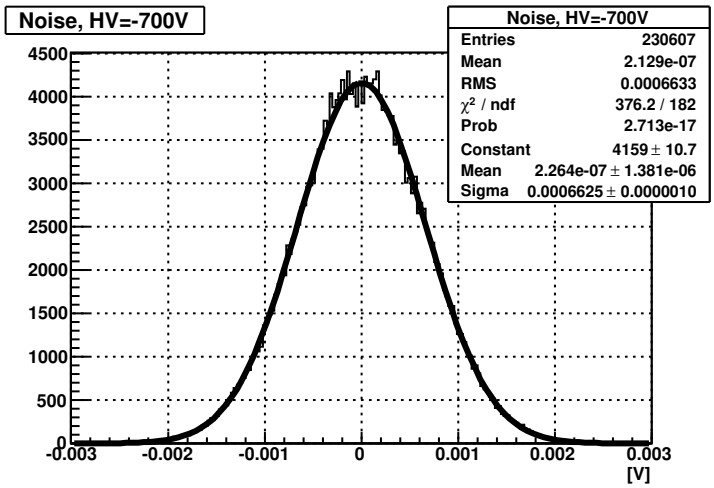
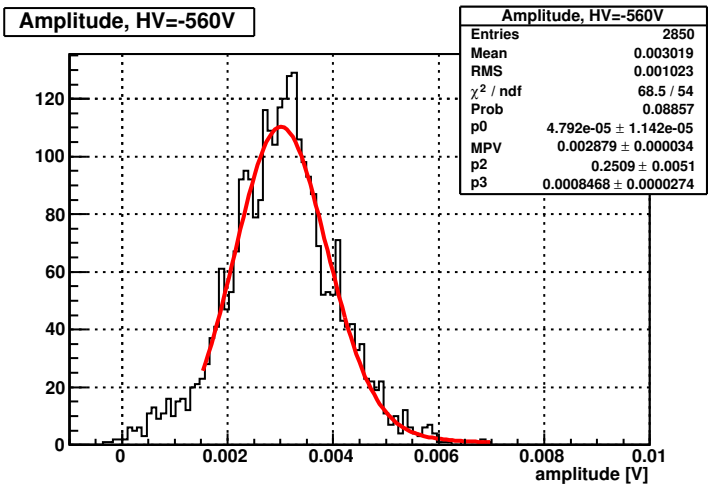
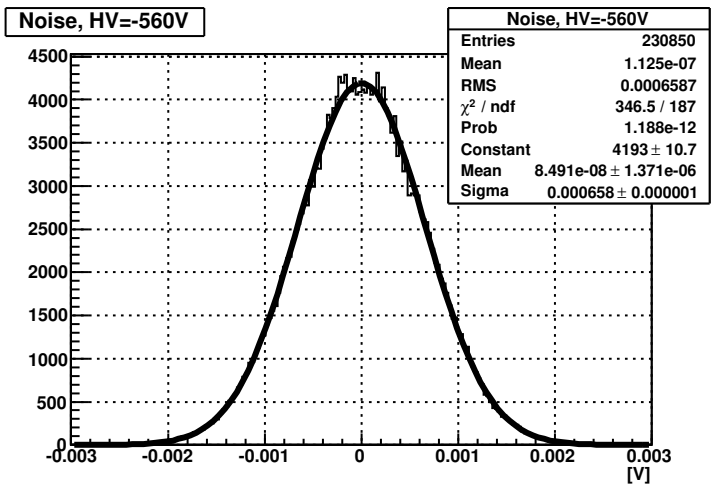
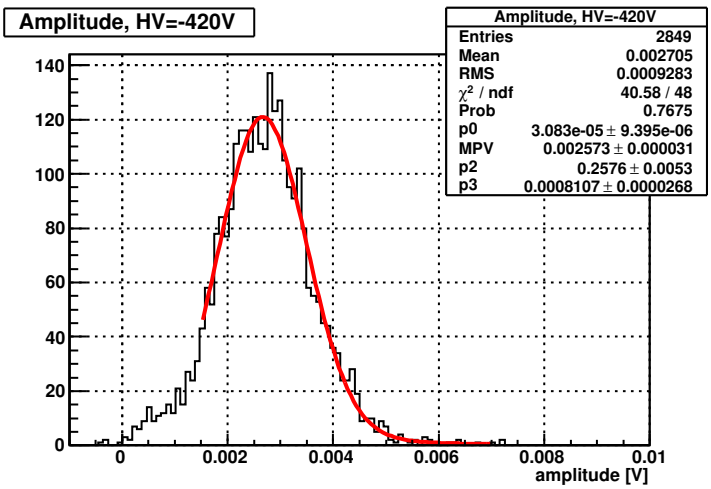
Fotec Box 403 (ASC-D-0230-7 and ASC-D-0230-5), Measurement 4

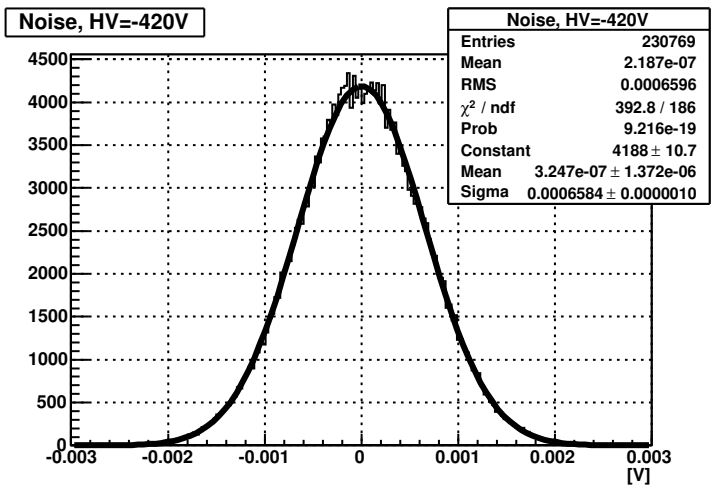


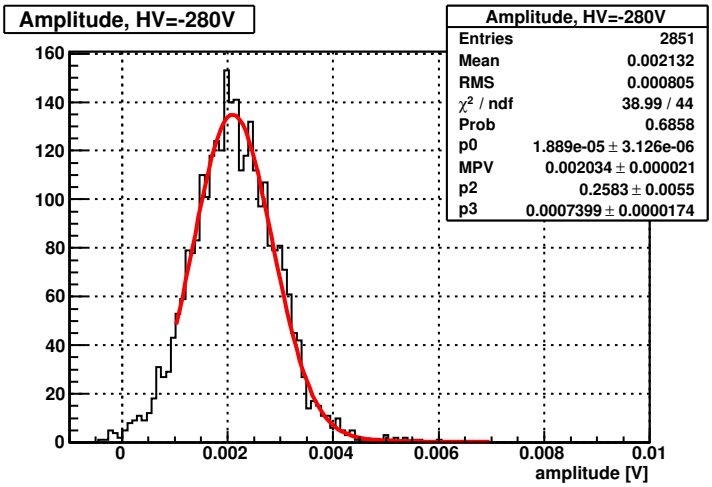


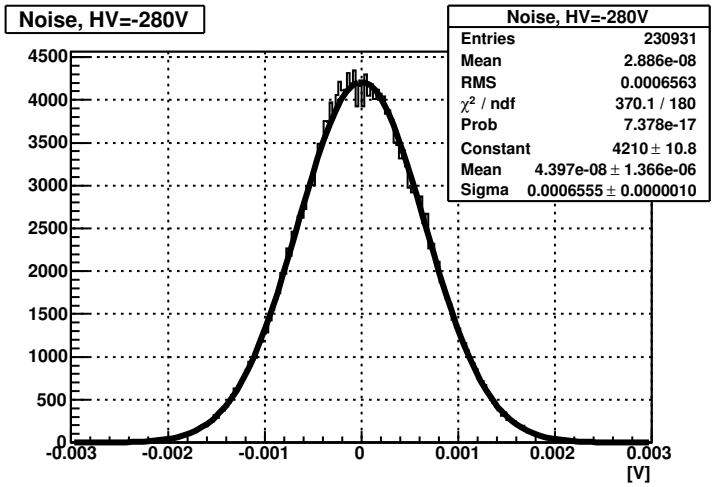


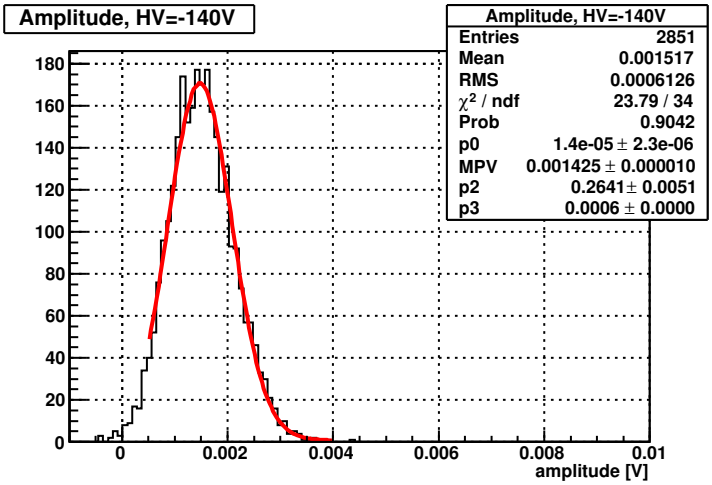


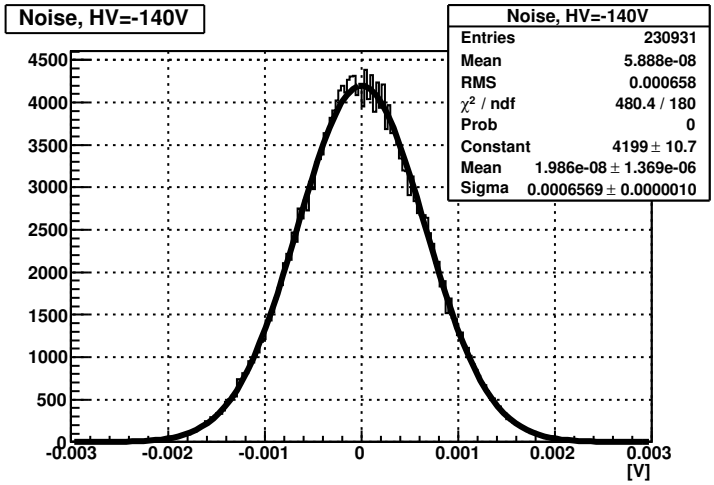


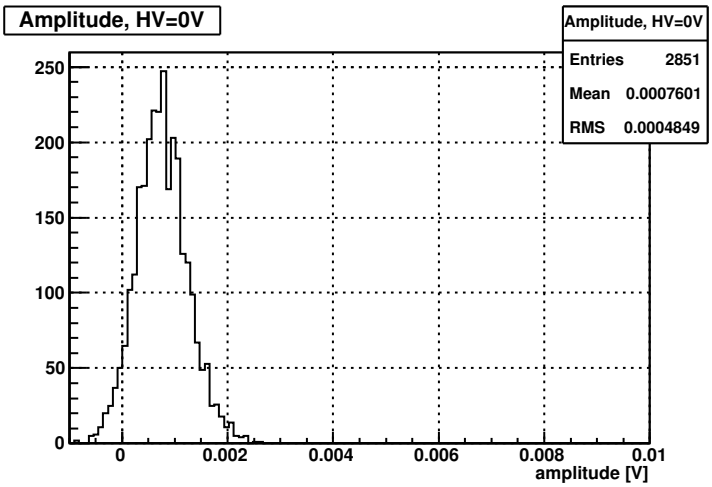


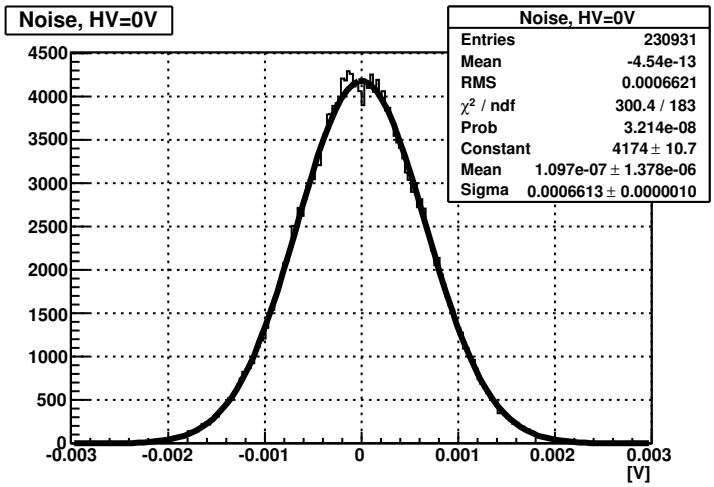

Amplitude, HV=-280V
Amplitude, HV=-280V
Entries 2851
Mean 0.002132
RMS 0.000805
χ² / ndf 38.99 / 44
Prob 0.6858
p0 1.889e-05 ± 3.126e-06
MPV 0.002034 ± 0.000021
p2 0.2583 ± 0.0055
p3 0.0007399 ± 0.0000174
amplitude [V]


Noise, HV=-280V
Noise, HV=-280V
Entries 230931
Mean 2.886e-08
RMS 0.0006563
χ² / ndf 370.1 / 180
Prob 7.378e-17
Constant 4210 ± 10.8
Mean 4.397e-08 ± 1.366e-06
Sigma 0.0006555 ± 0.0000010
[V]

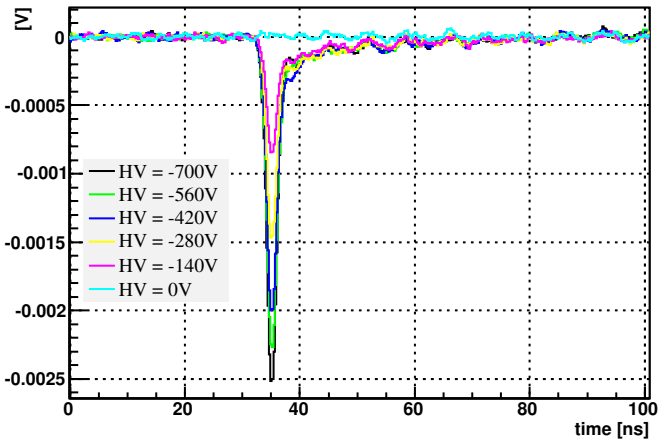

Amplitude, HV=-140V
Amplitude, HV=-140V
Entries 2851
Mean 0.001517
RMS 0.0006126
χ² / ndf 23.79 / 34
Prob 0.9042
p0 1.4e-05 ± 2.3e-06
MPV 0.001425 ± 0.000010
p2 0.2641 ± 0.0051
p3 0.0006 ± 0.0000
amplitude [V]

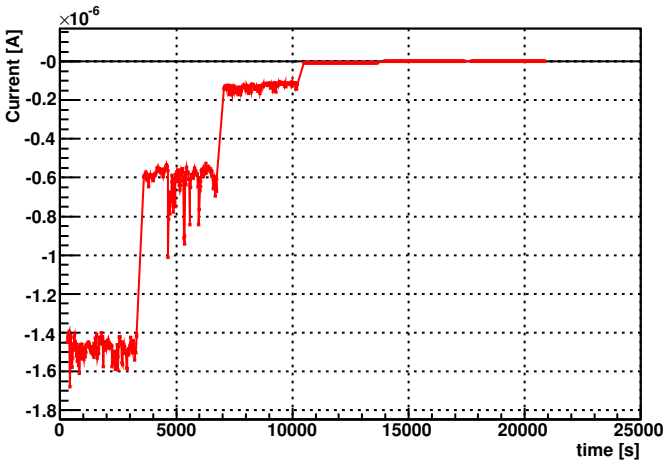

Noise, HV=-140V
Noise, HV=-140V
Entries 230931
Mean 5.888e-08
RMS 0.000658
χ² / ndf 480.4 / 180
Prob 0
Constant 4199 ± 10.7
Mean 1.986e-08 ± 1.369e-06
Sigma 0.0006569 ± 0.0000010
[V]


Amplitude, HV=0V
Amplitude, HV=0V
Entries 2851
Mean 0.0007601
RMS 0.0004849
amplitude [V]

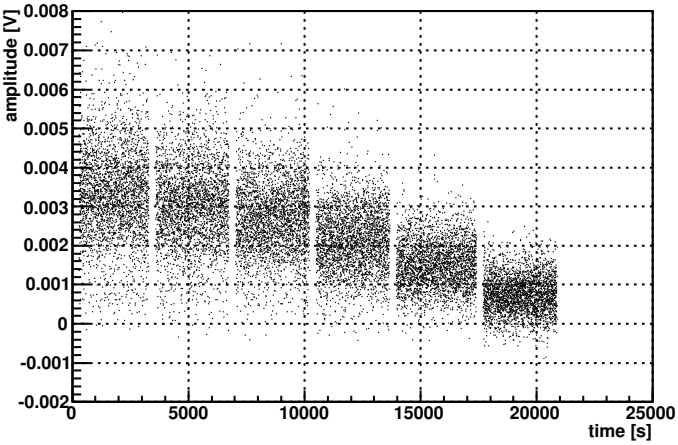

Noise, HV=0V
Noise, HV=0V
Entries 230931
Mean -4.54e-13
RMS 0.0006621
χ² / ndf 300.4 / 183
Prob 3.214e-08
Constant 4174 ± 10.7
Mean 1.097e-07 ± 1.378e-06
Sigma 0.0006613 ± 0.0000010
[V]

Average event

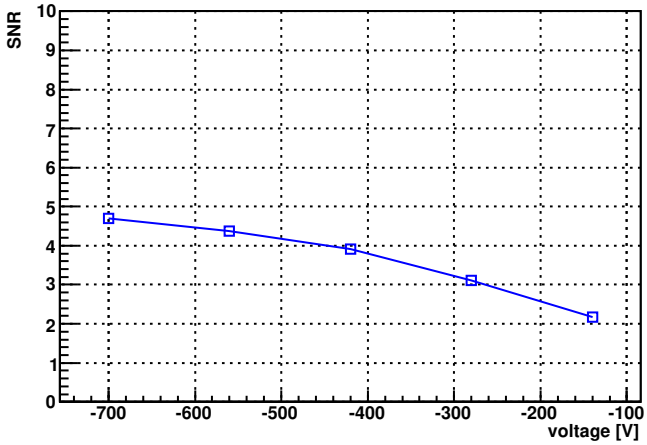




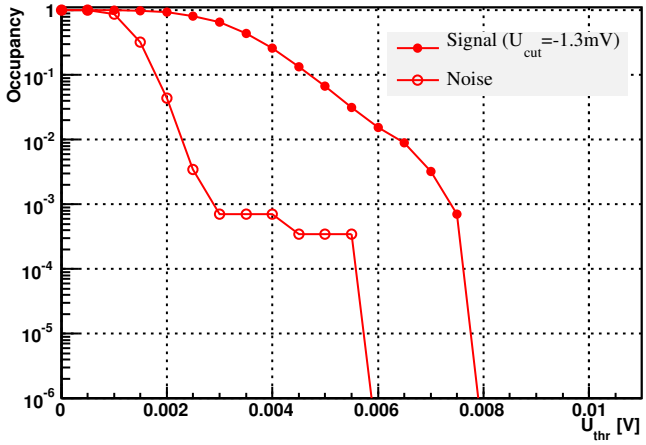
amplitudes



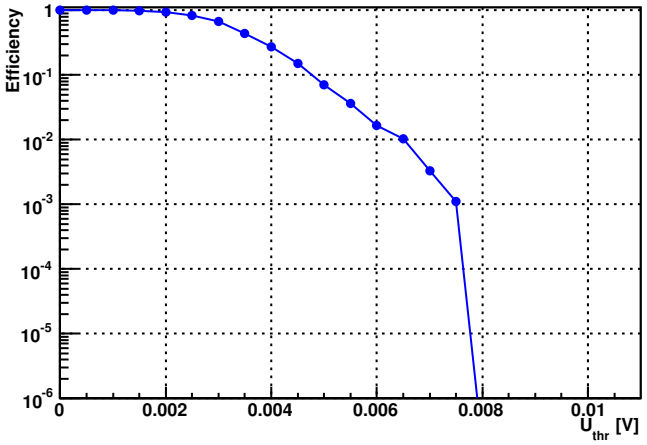
Signal to noise

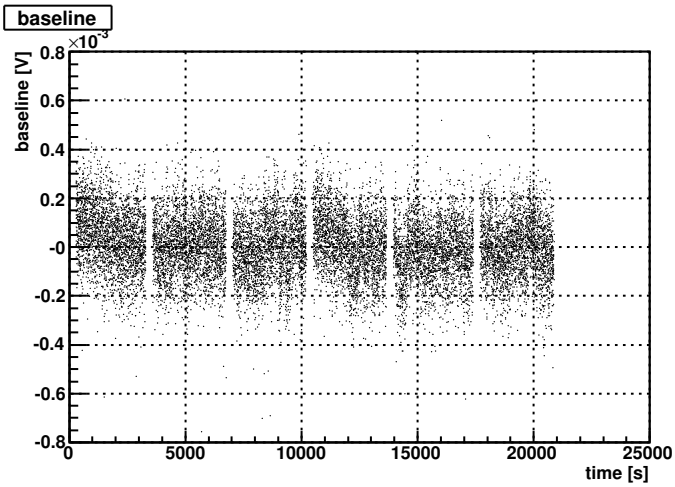


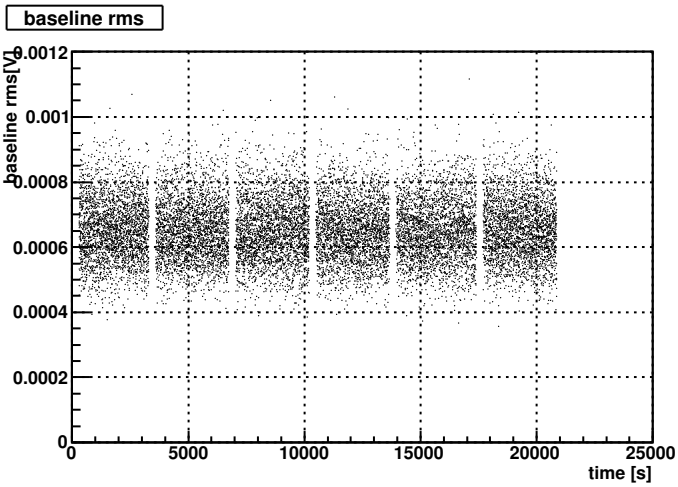
Occupancy vs Threshold, HV=700V

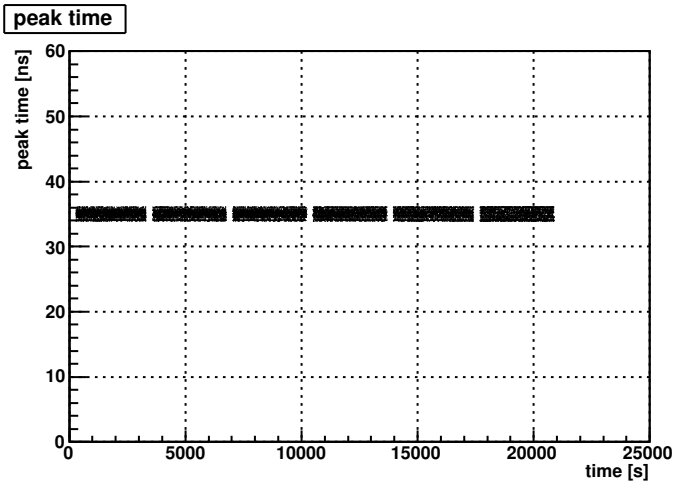


Efficiency vs Threshold, HV=700V




baseline
×10⁻³
baseline [V]
time [s]


baseline rms
baseline rms[V]
time [s]


peak time
peak time [ns]
time [s]

Data File = SP_050925112417_Fotec403-ASC-D-0230-7_ASC-D-0230-5-measurement4.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