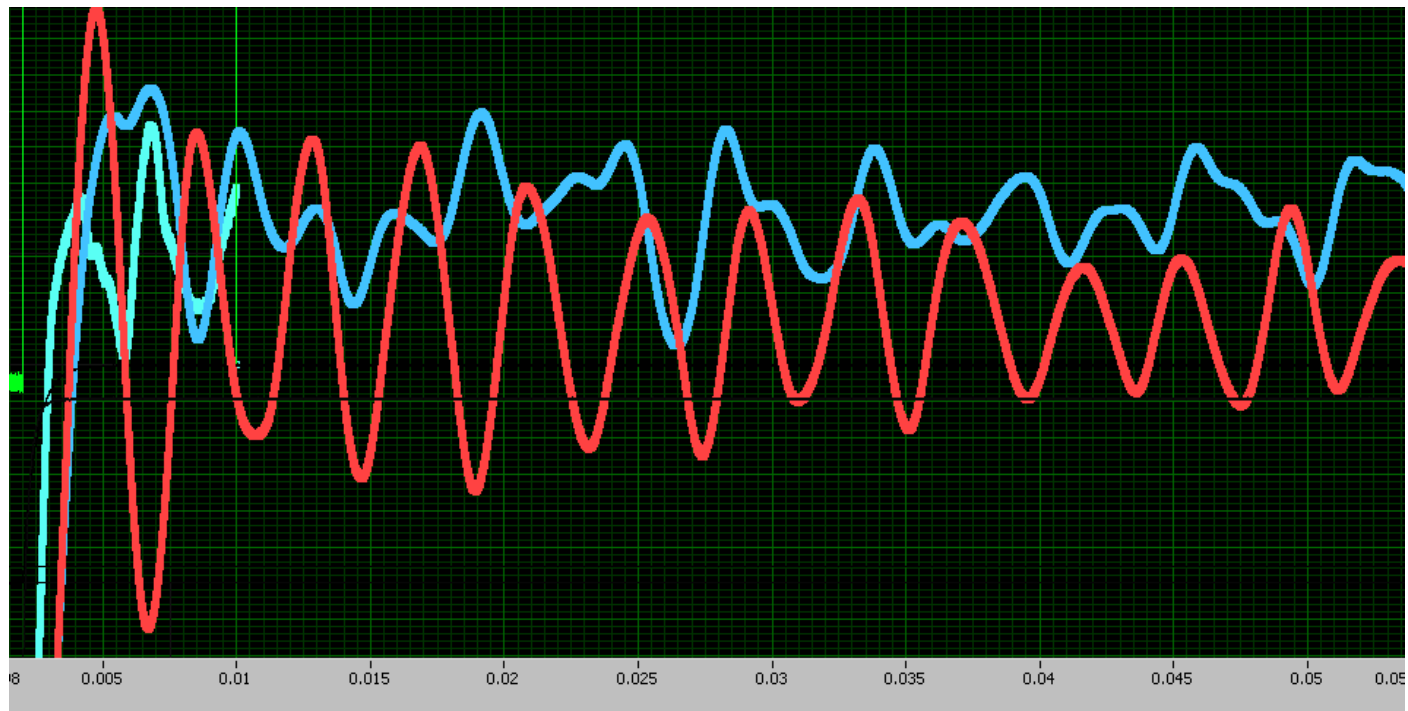
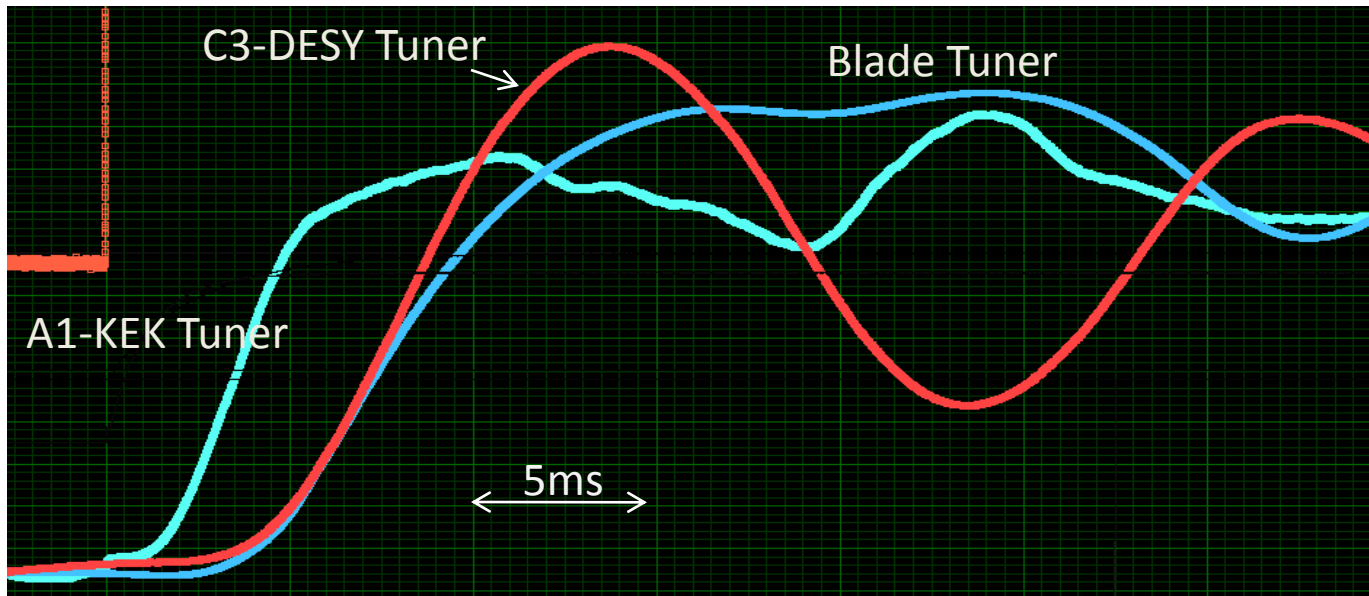


S1 Global
First (Preliminary) Results of Cavities/Tuner
Transient Studies

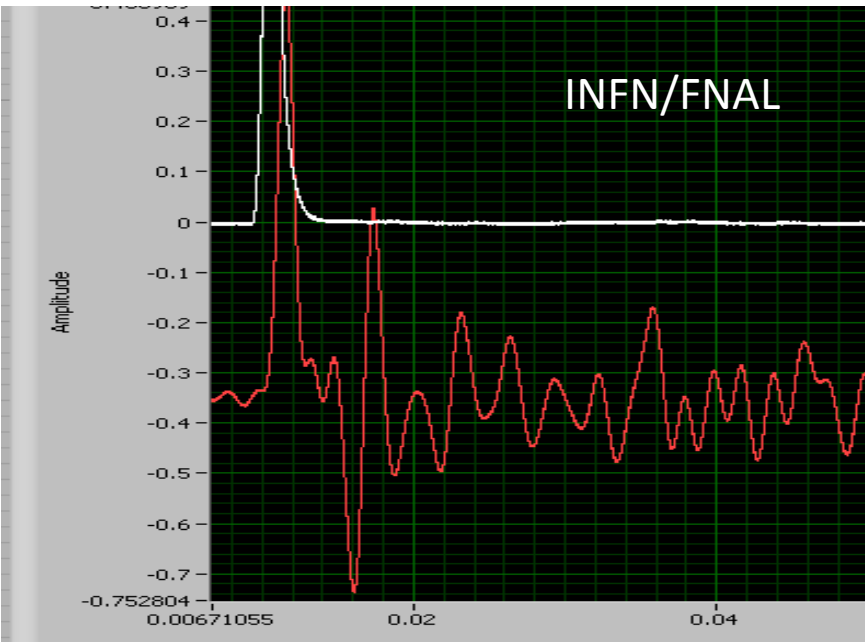
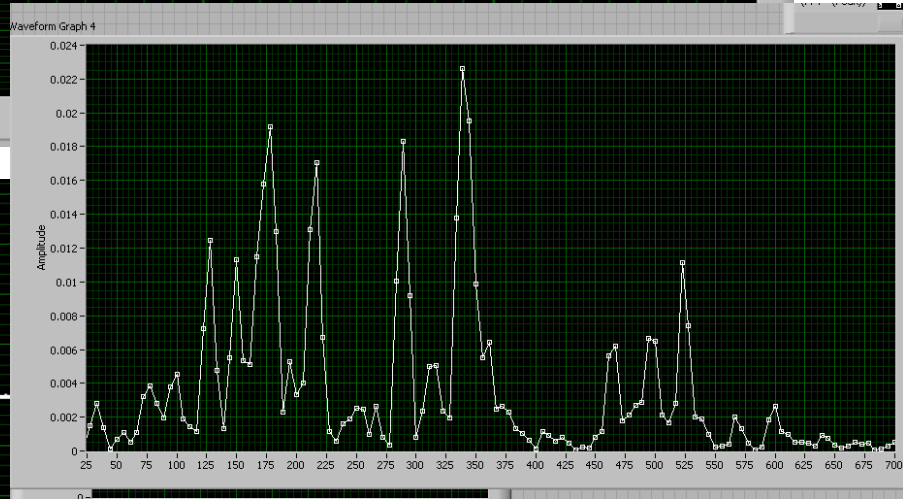
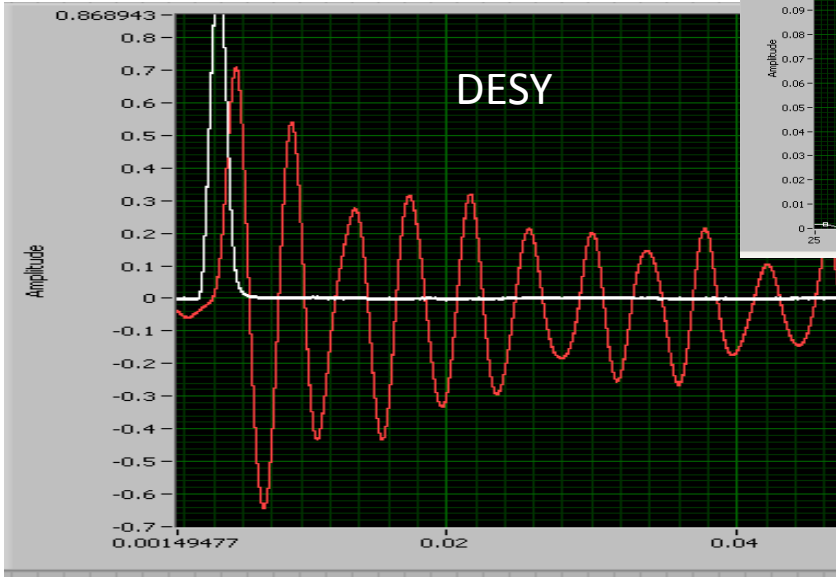
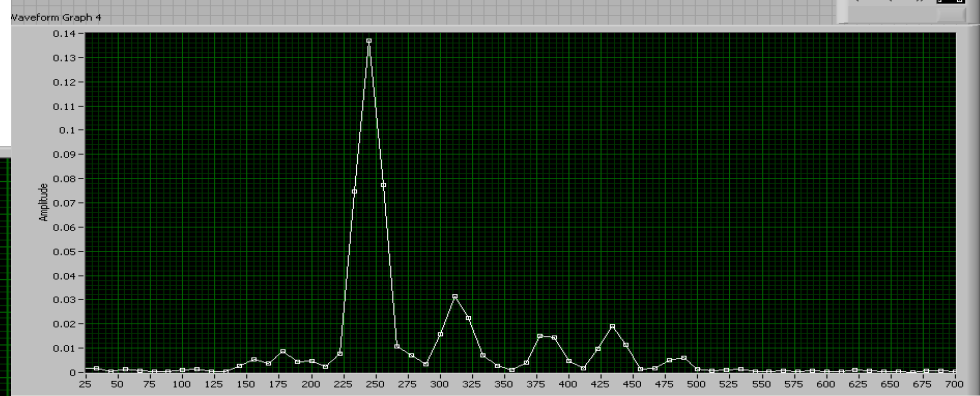
June 5-9, 2010

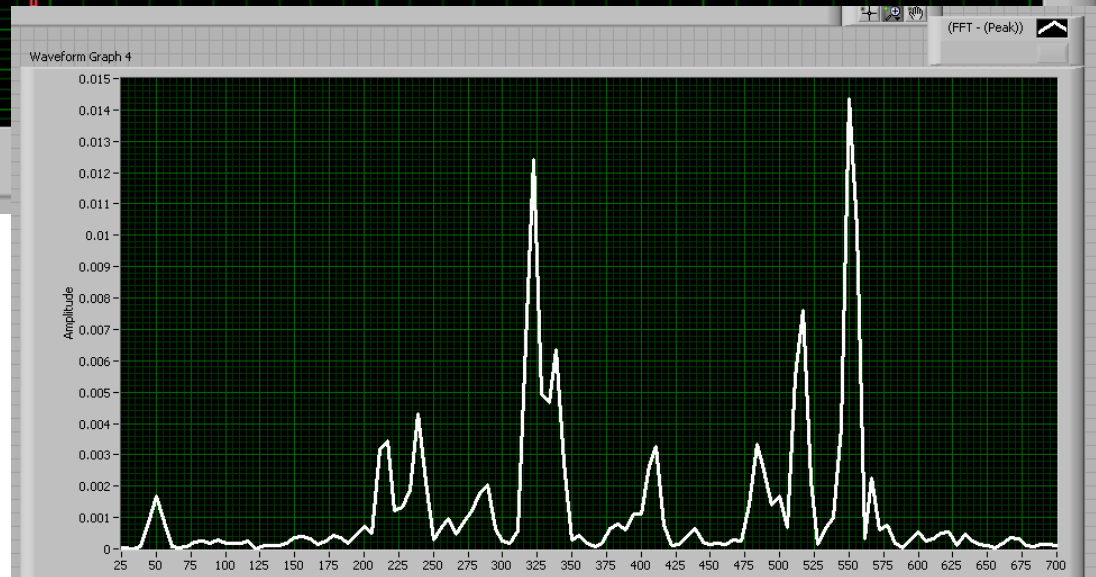
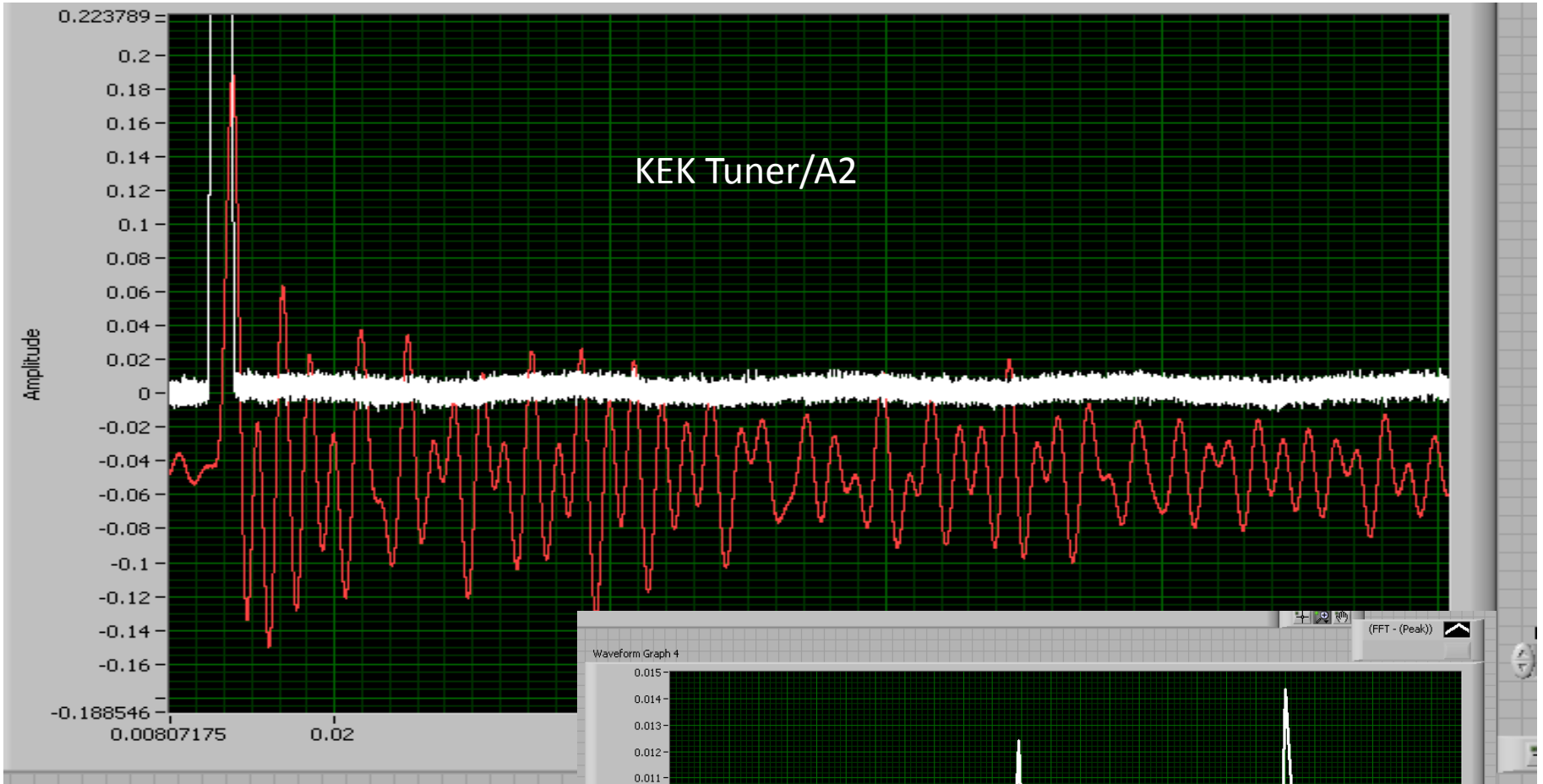
KEK/INFN/FNAL joint team

- Response of Cavity/Tuner system on “Step” function stimulus pulse on Piezo
 - Capacitance of Piezoactuator for different Tuner system
 - $C_{kek}=0.2\text{mF}$
 - $C_{desy}=2\text{mF}$
 - $C_{Blade}=4\text{mF}$

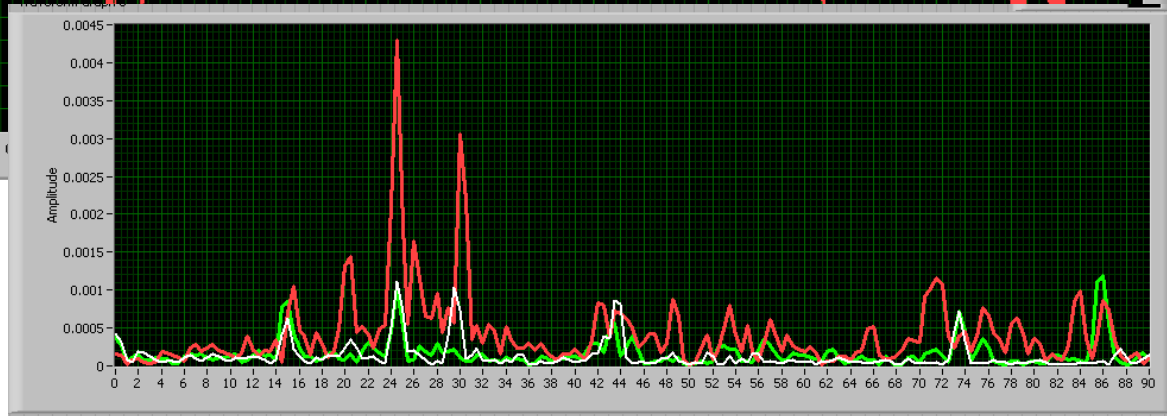
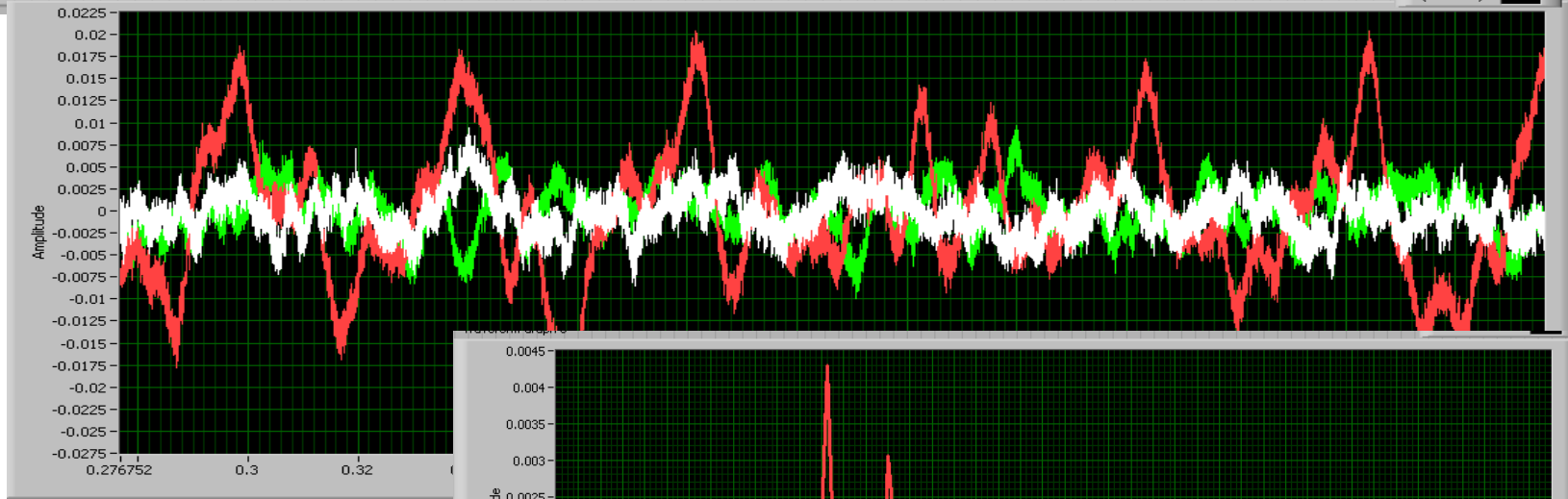
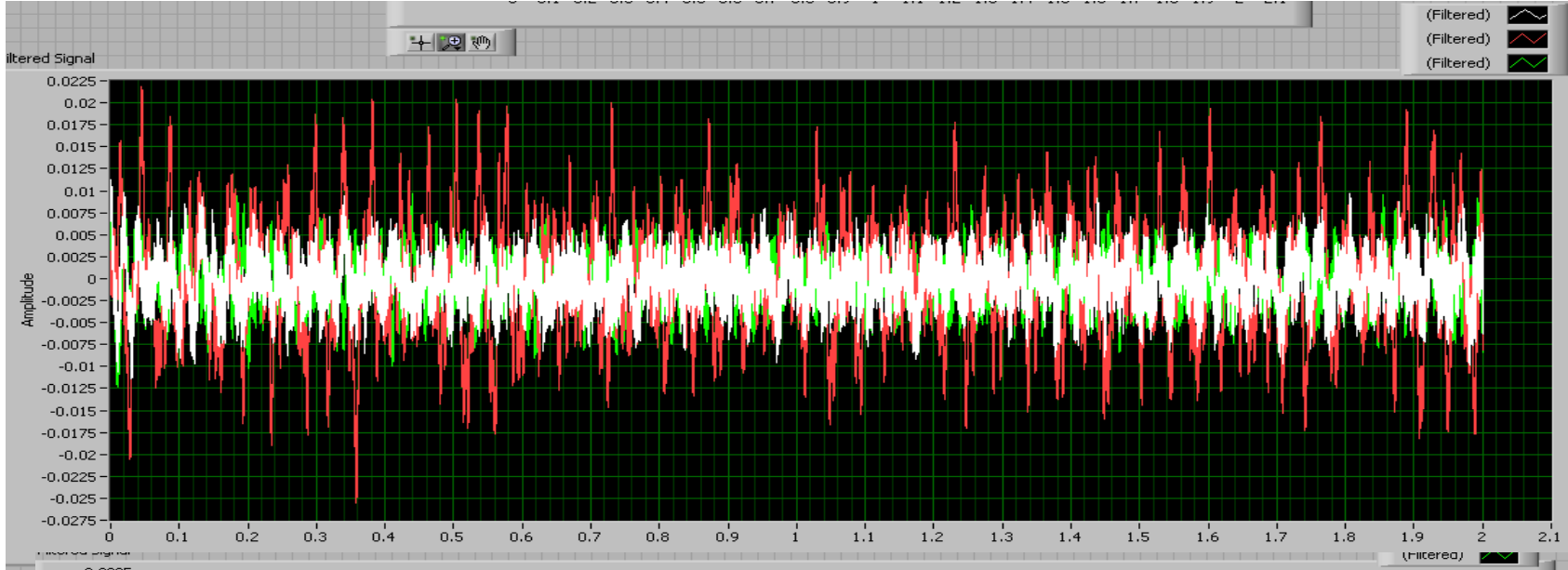


- Response on large amplitude SINEwave stimulus pulse
 - (FTT of cavity response)





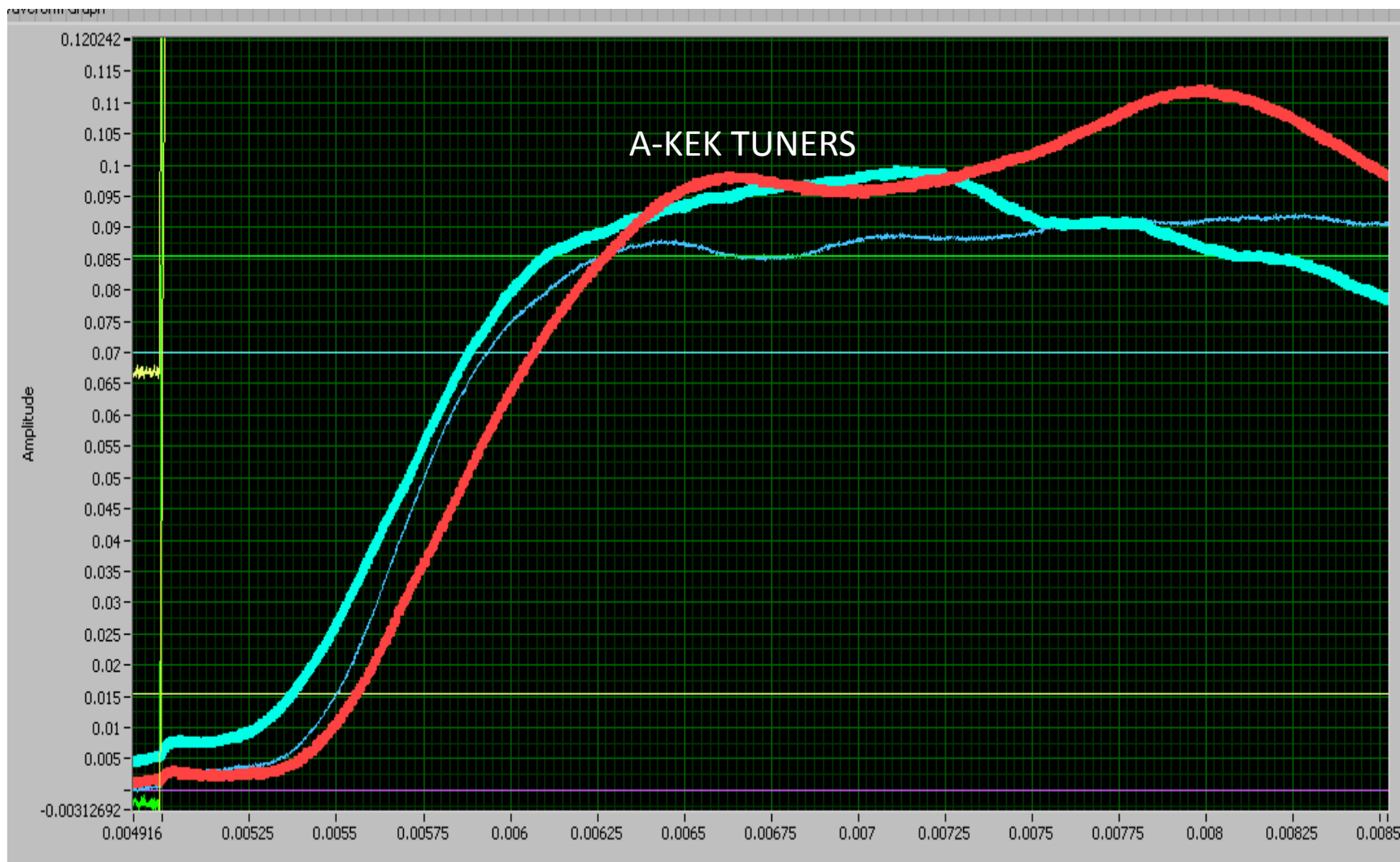
- Microphonics for each type of TUNER



Microphonics Study
 Red-Blade
 White-DESY
 Green-KEK

- KEK Slide-Jack tuner

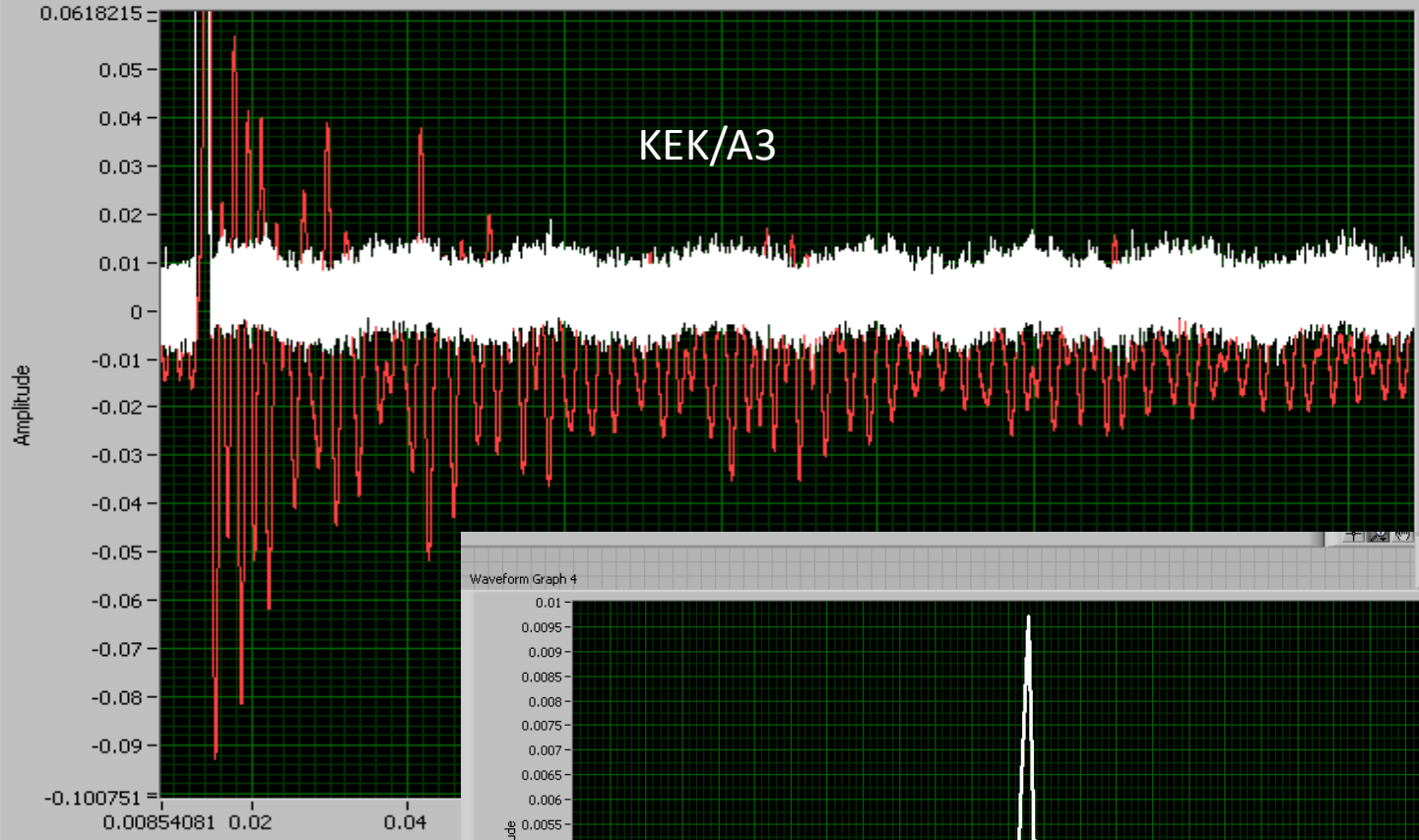
KEK Tuners-Response on 50V pulse



Signals

Plot 0

KEK/A3



Waveform Graph 4

(FFT - (Peak))

