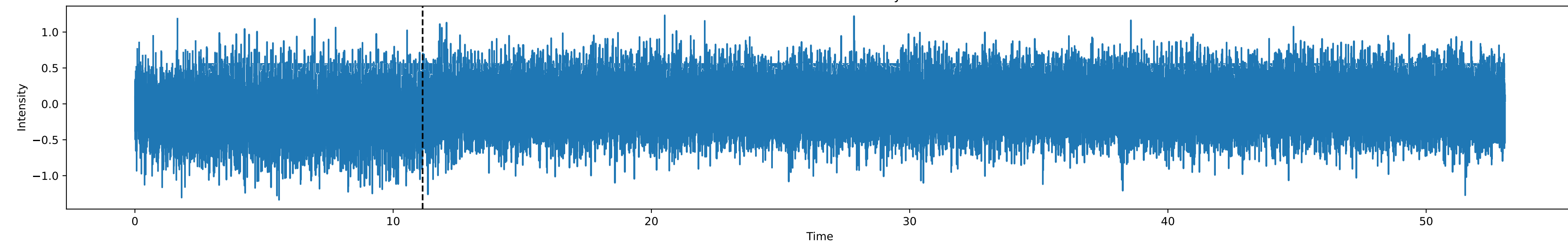
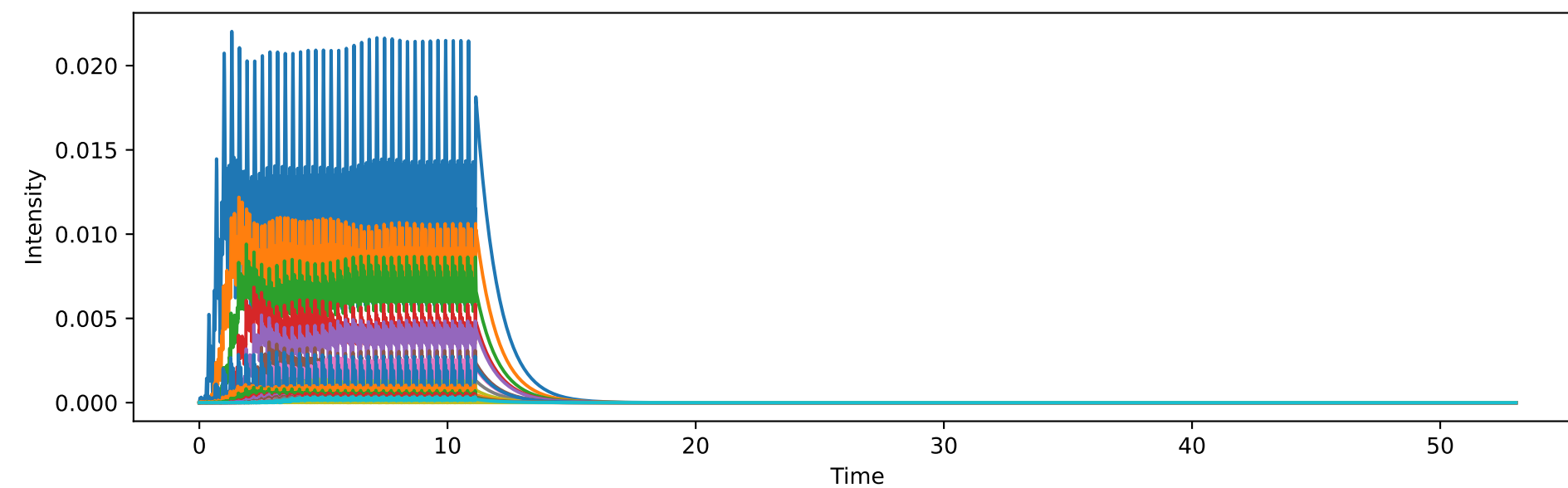


Calibration Phase One Demonstration with noise
 $N=10 * 2 + 2$ modes $g_0=0.3\Omega$, Noise Amp=0.3, $\eta=0.18\text{MHz}$, $\eta_{\text{hybrid}}=0.8999999999999999\text{MHz}$
 A simulation for the 11_07 data with parameters chosen as known, or estimated so that the result looks as similar as possible.
 At this level of drive and with these decay rates, the hybridized modes are hardly populated. The noise is (unphysical) random gaussian noise added to simulated photodiode voltage. Nothing can be said with certainty about the drive strength.

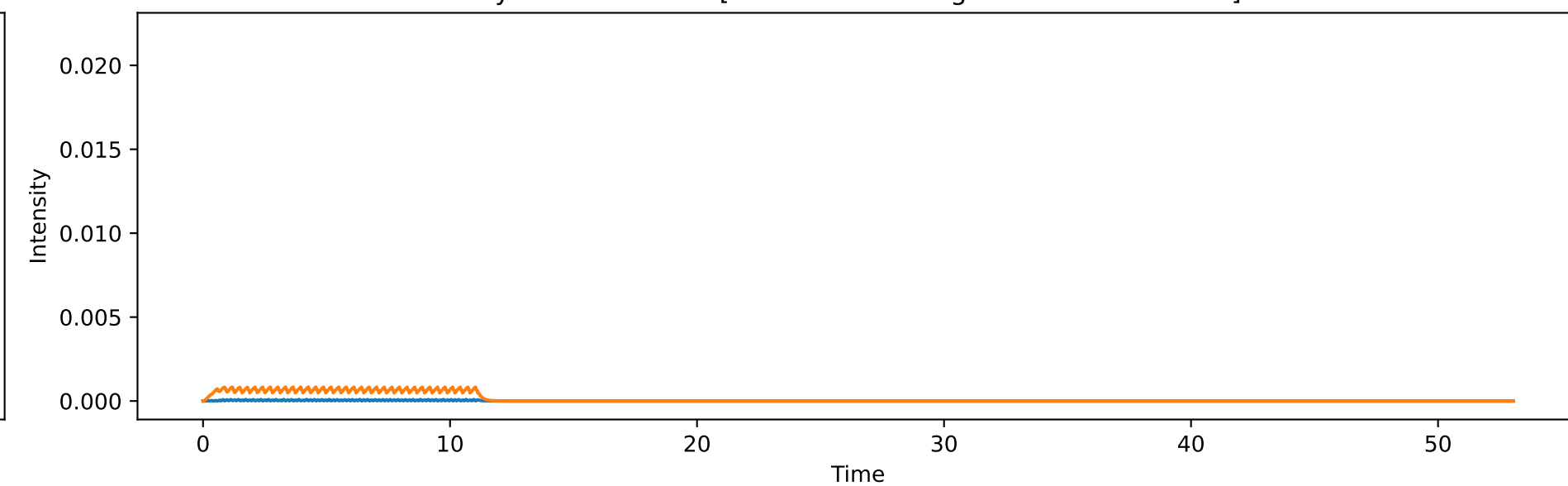
Photo-diode AC Intensity



Bath Modes



Hybridized Modes [corrected for magnitude visible in FFT]



FFT Spectrum

