

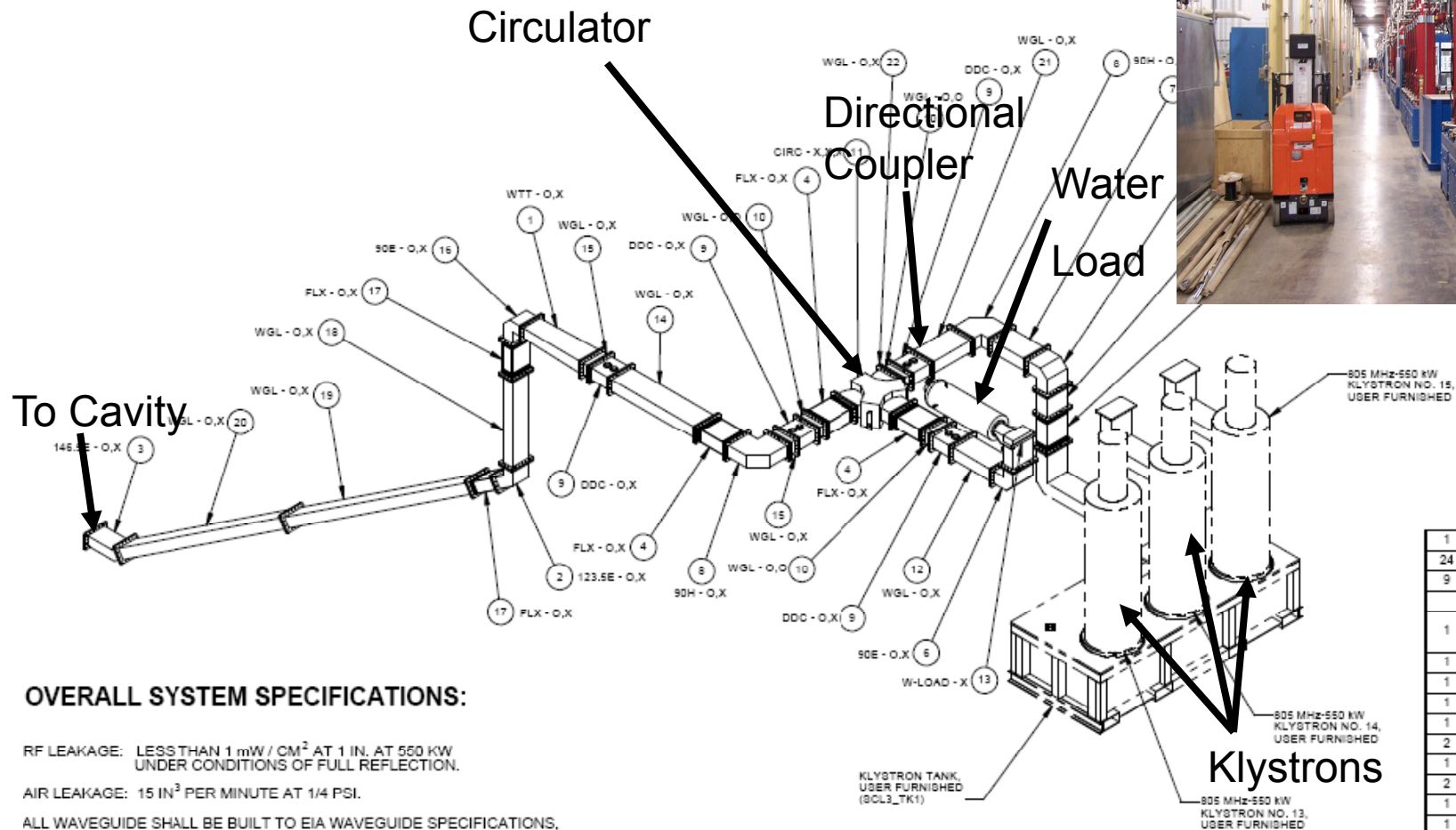
SNS Klystron Output Distortion



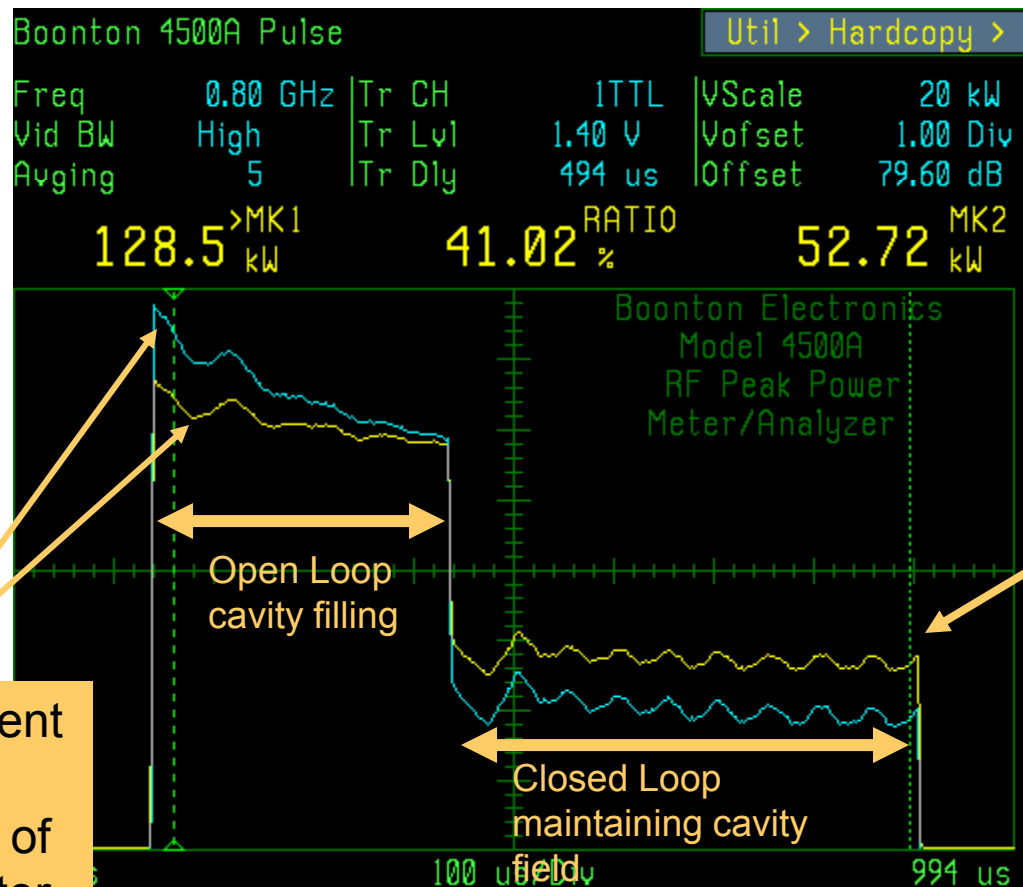
THP099

M. McCarthy, M. Crofford, S. Kim

SNS SCL RF Architecture



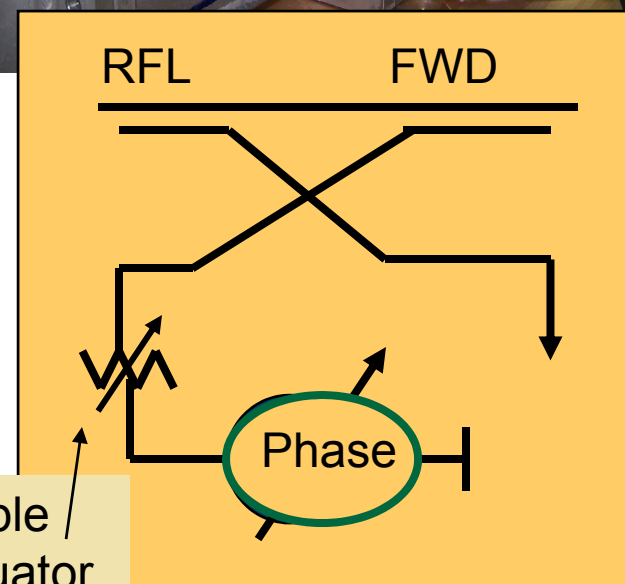
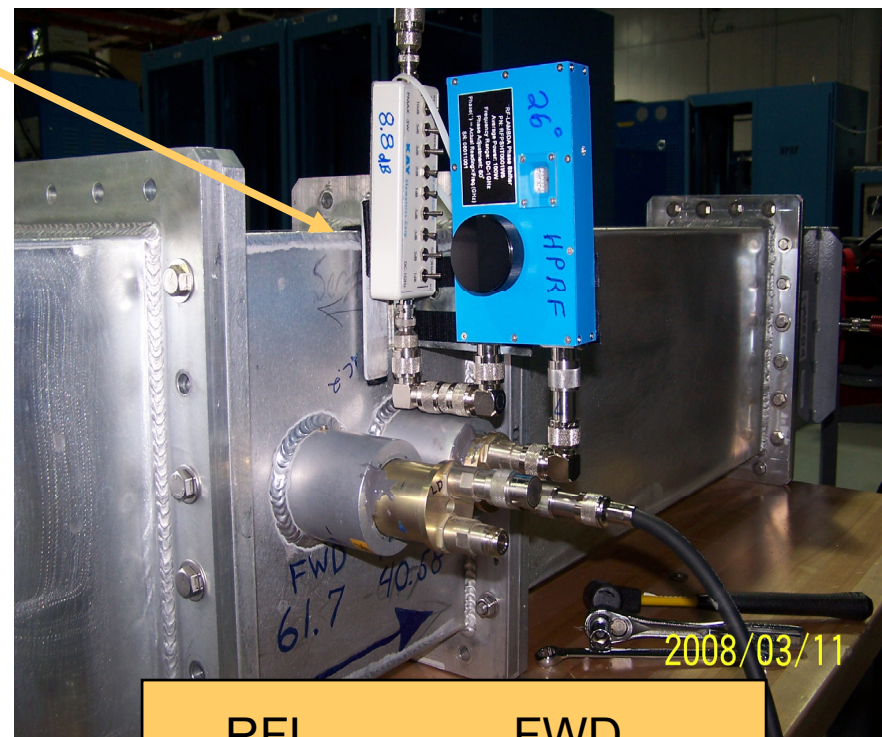
Initial Klystron Fwd and Cavity Fwd Waveforms



Power Measured ~
10us from end of
pulse

Note different
slopes on
either side of
the circulator

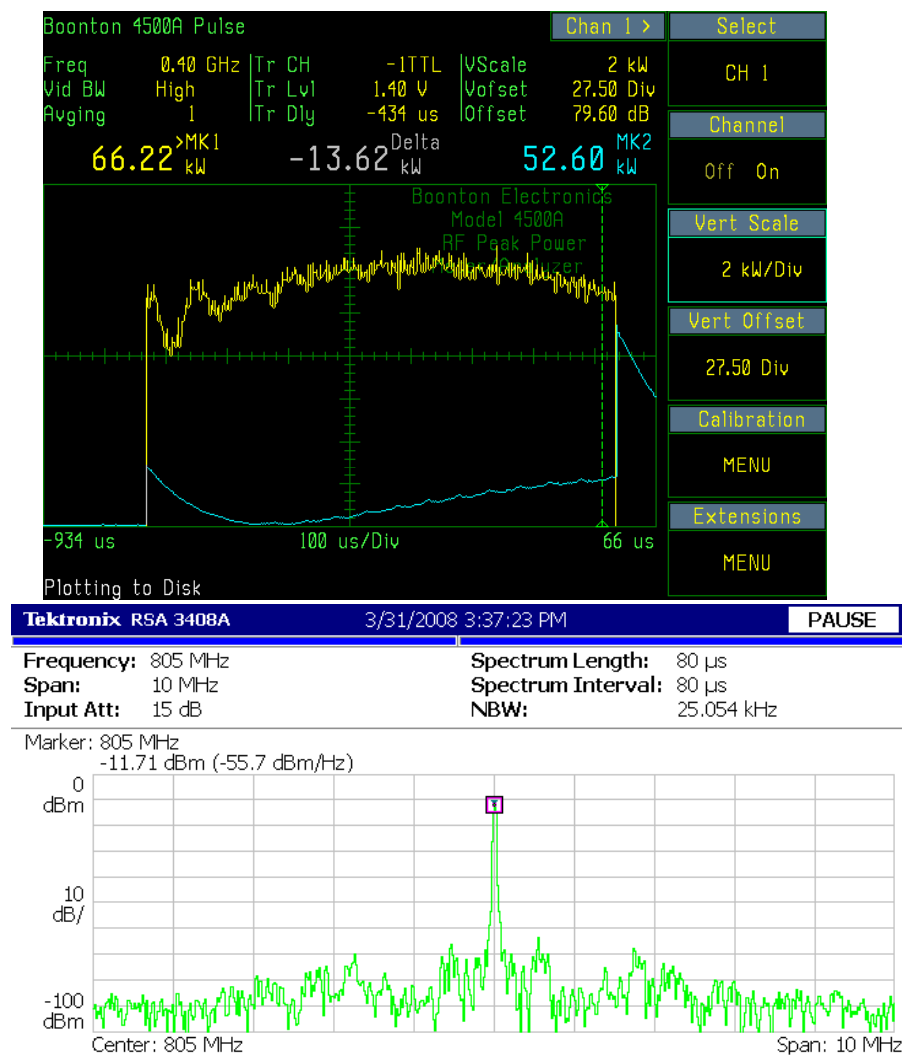
Waveguide Circulator and Modified Directional Coupler



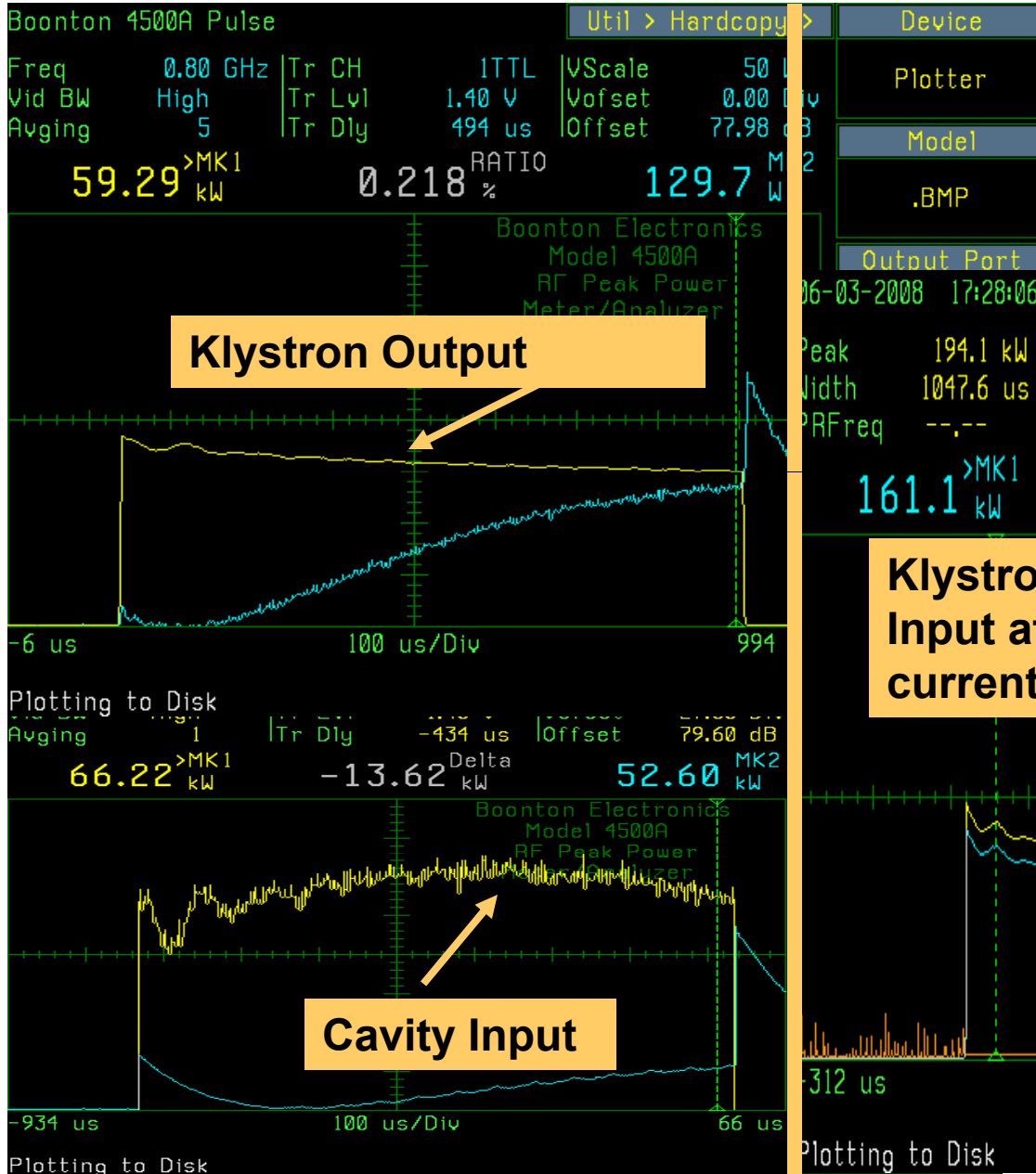
RF Pulse Spectrum: Normal & Parabolic



23b Cavity input full power
normal bias



23b Cavity input full power
parabolic shape



TCU bias adjustment using slope matching program

