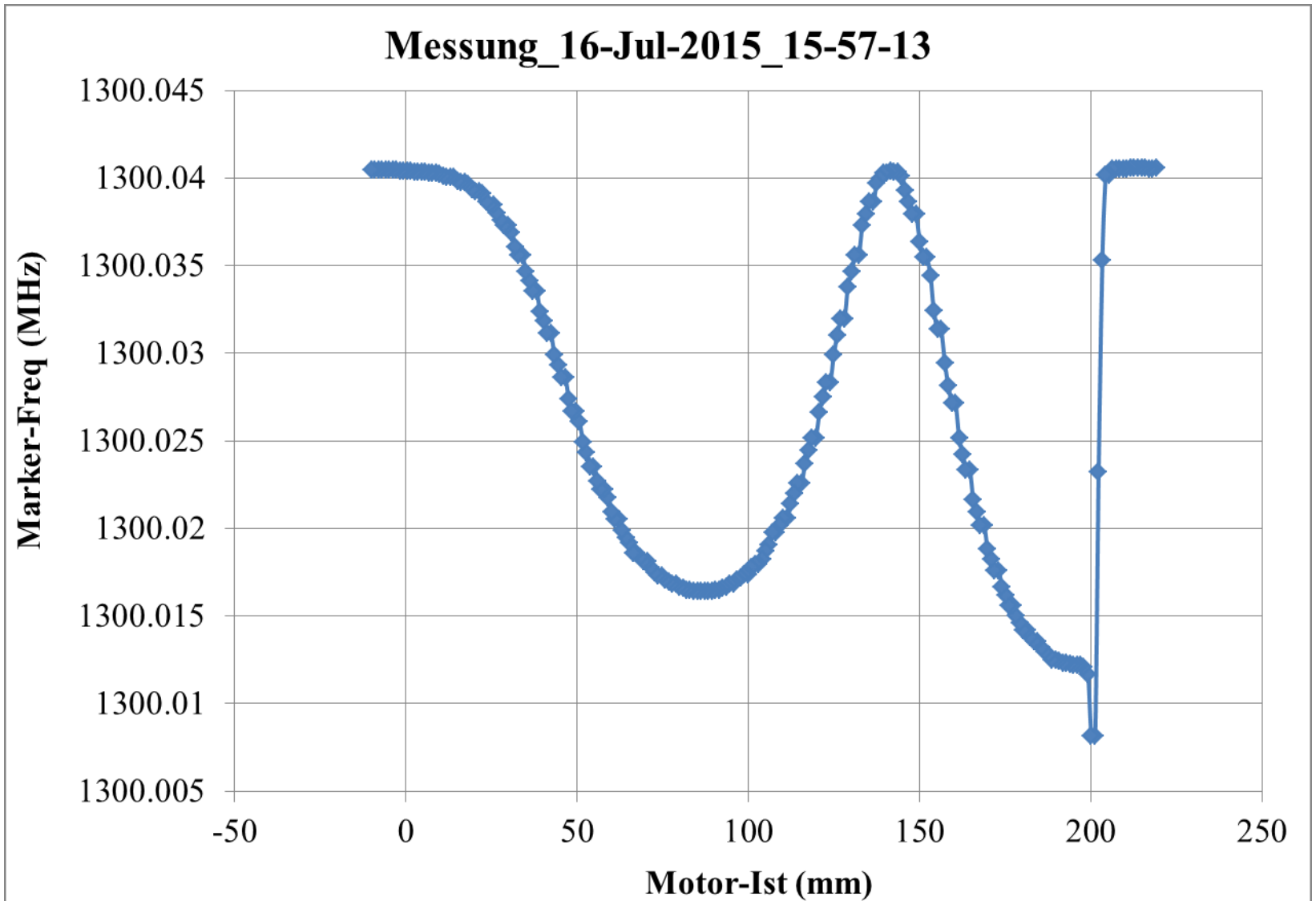


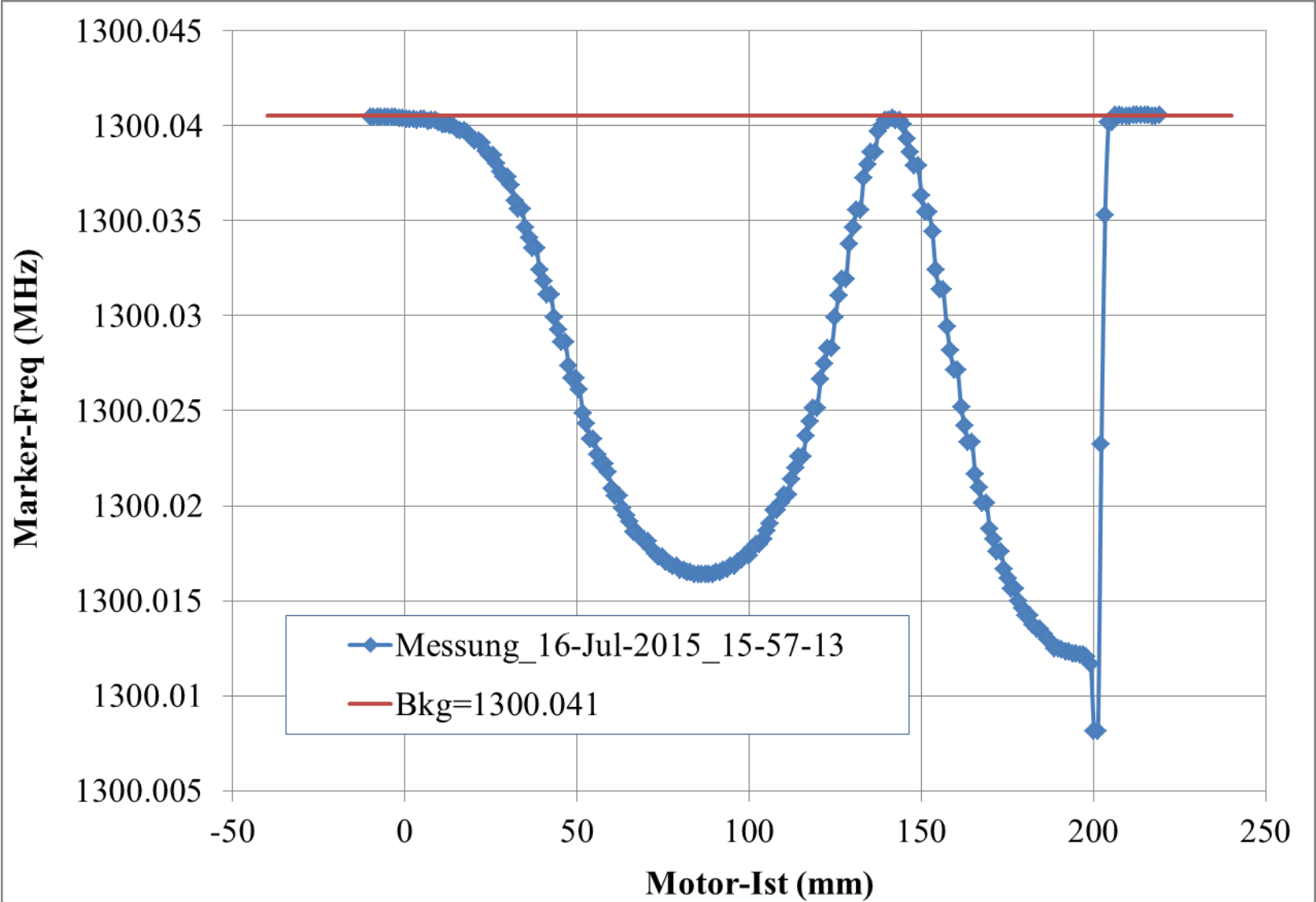
# Gun-4.6: field balance fit

M. Krasilnikov,  
PPS 16.06.2016

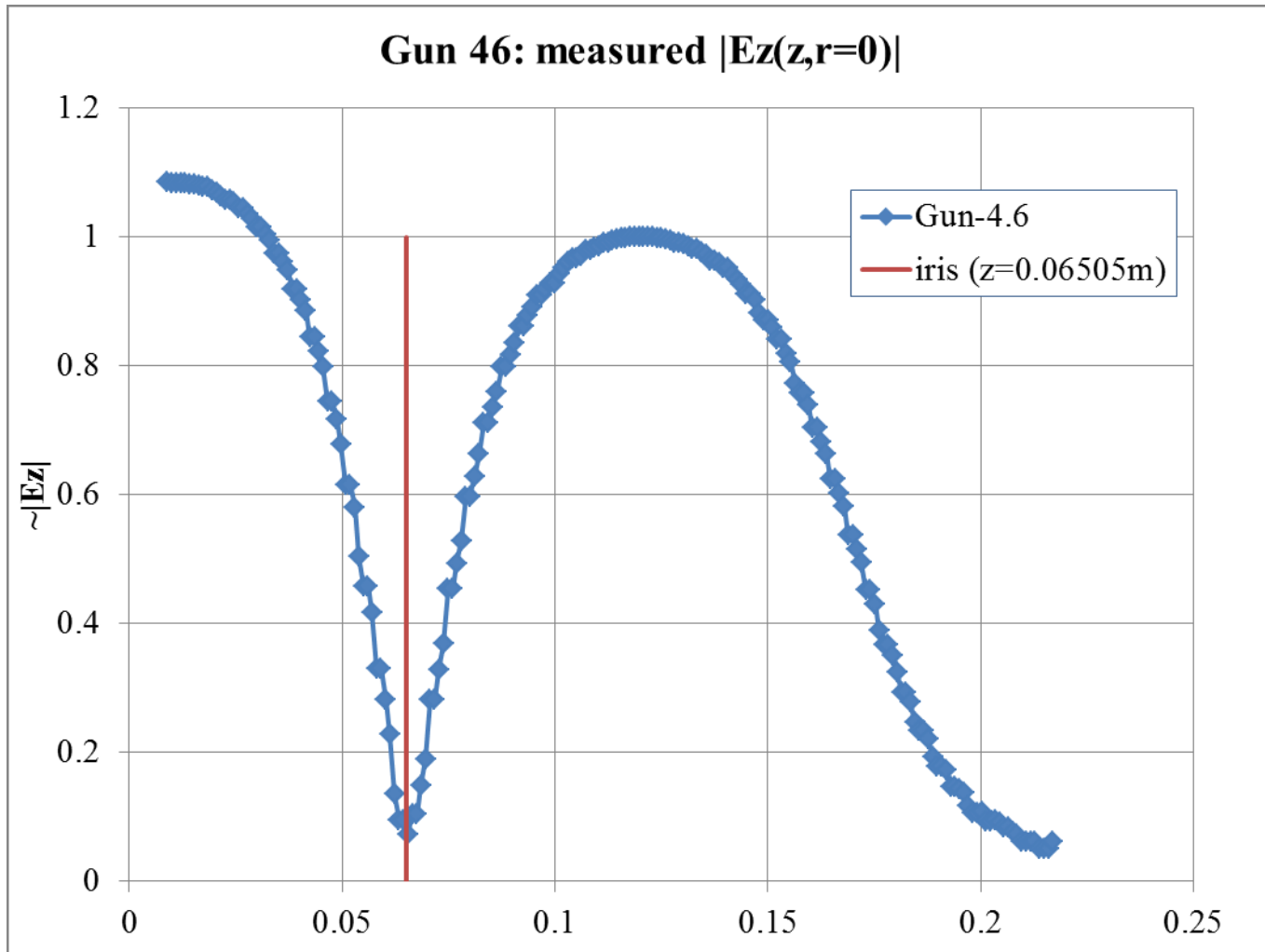
# Bead Pull Measurements



# Bead Pull Measurements: data treatment-1

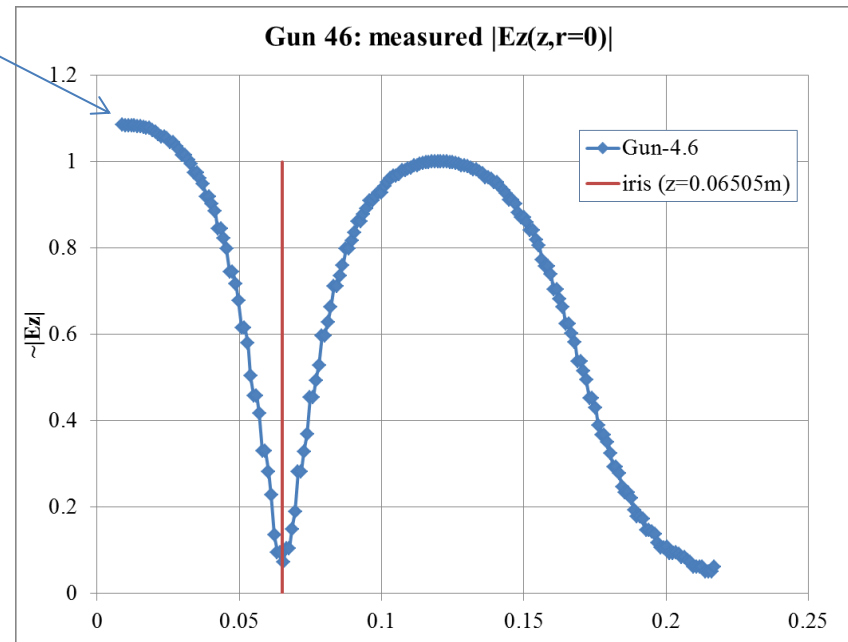
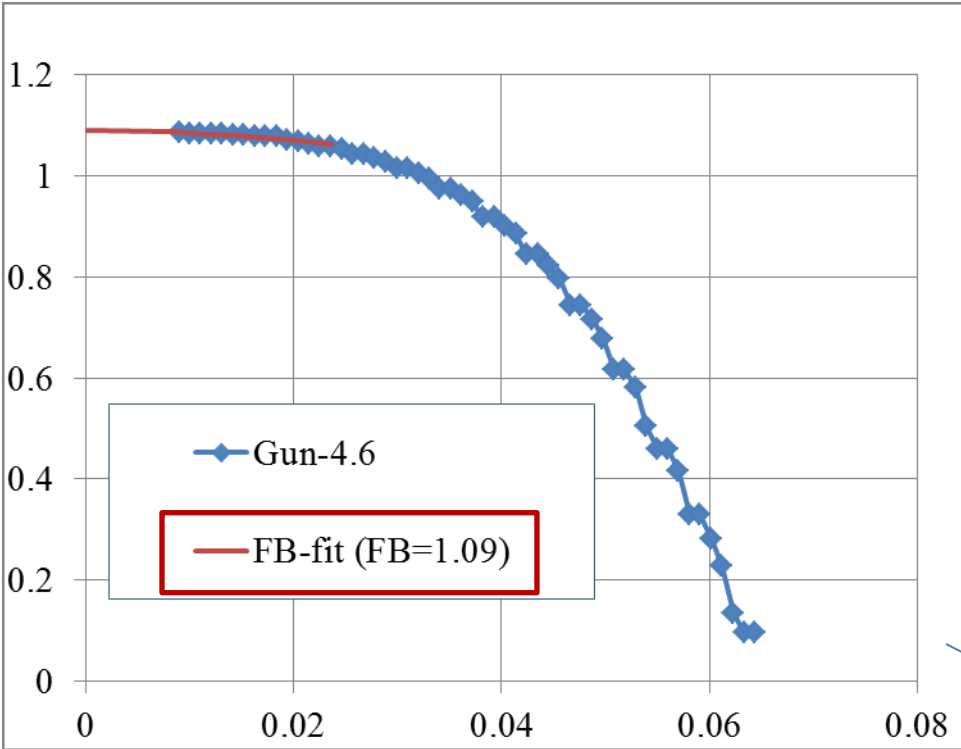


# Bead Pull Measurements: data treatment-2

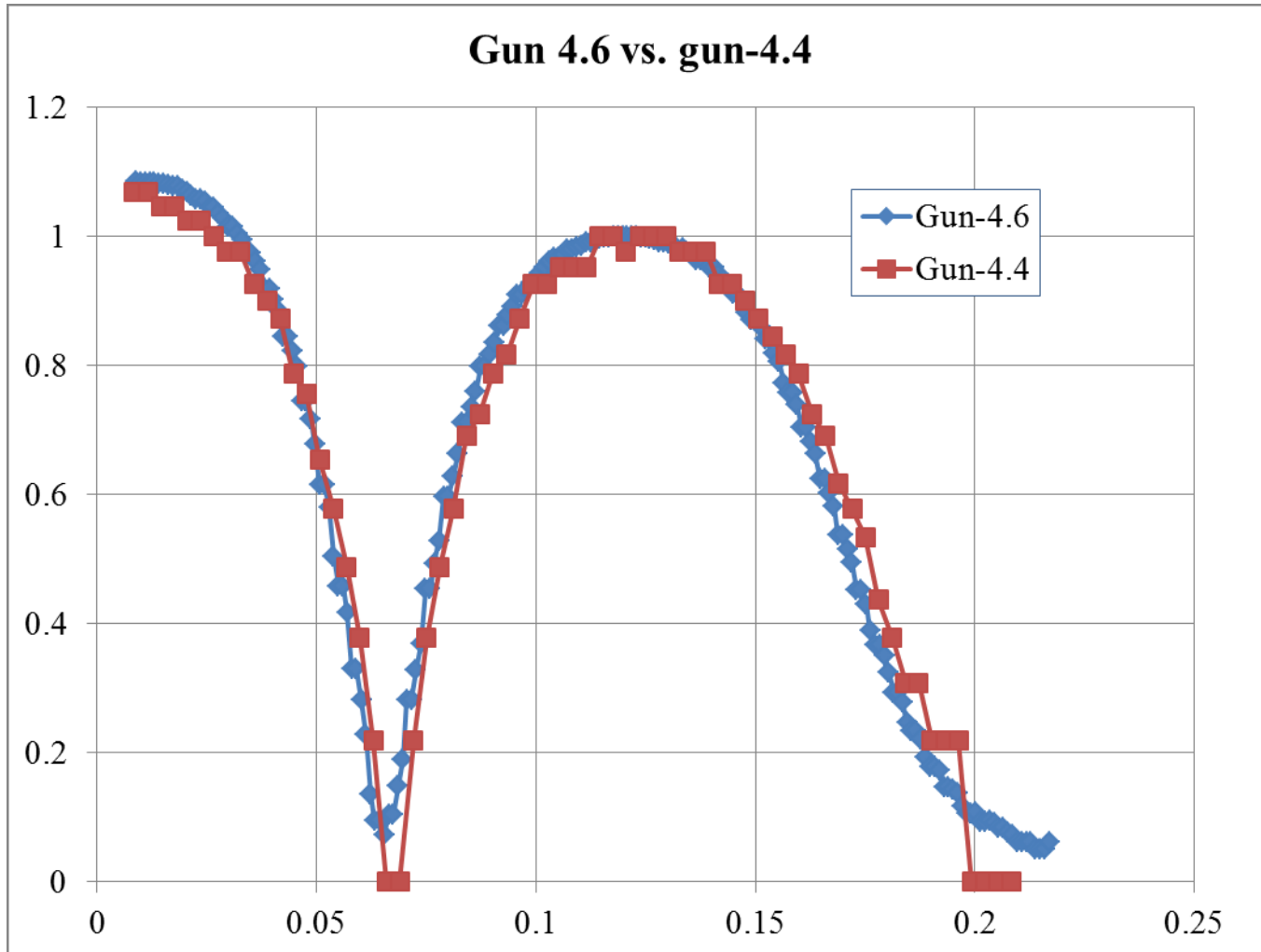


$$\frac{\Delta f(z)}{f} \frac{F_{bead}}{\omega} = \frac{|Ez(z)|^2}{\omega U}$$

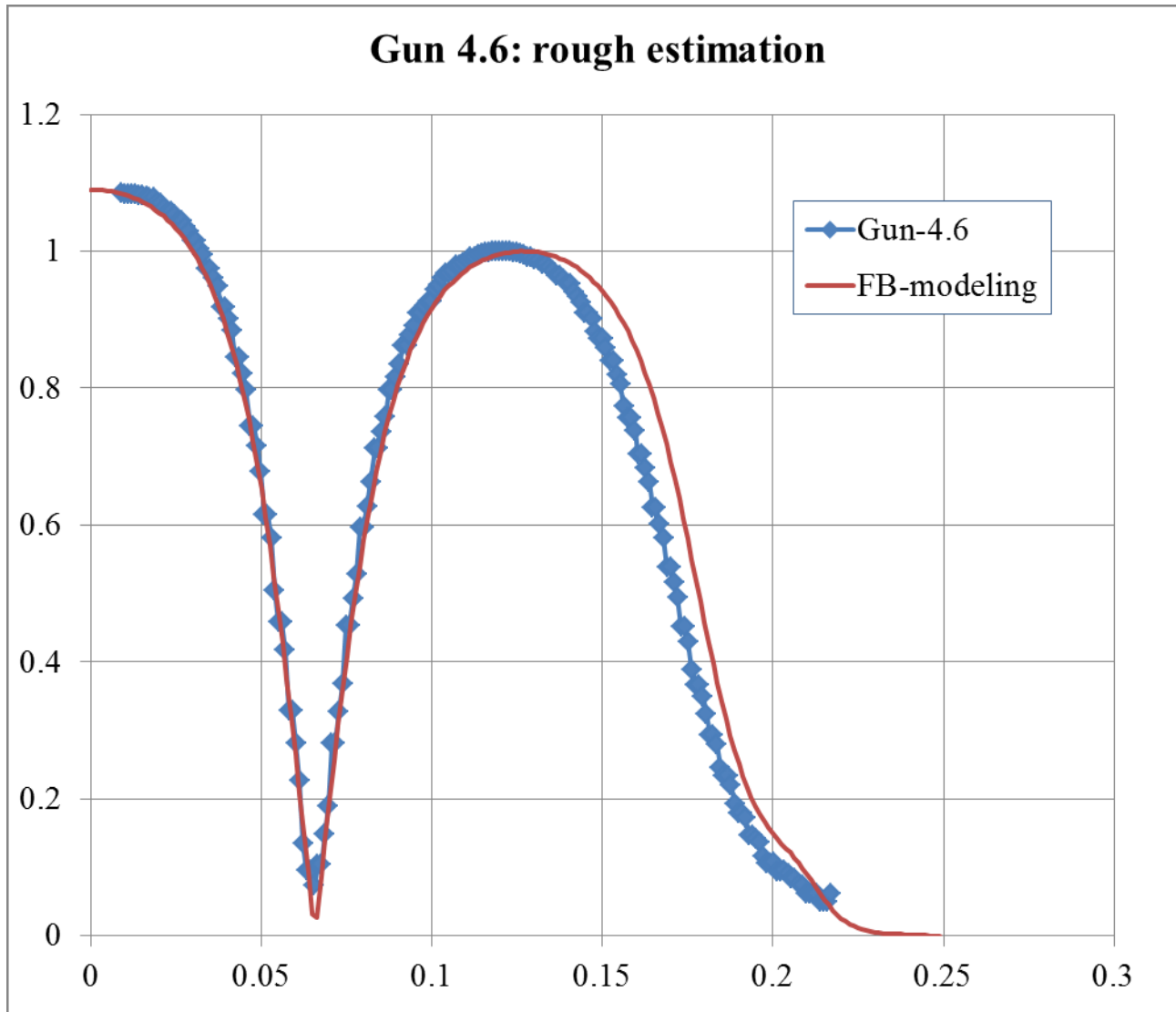
# Bead Pull Measurements: data treatment-3



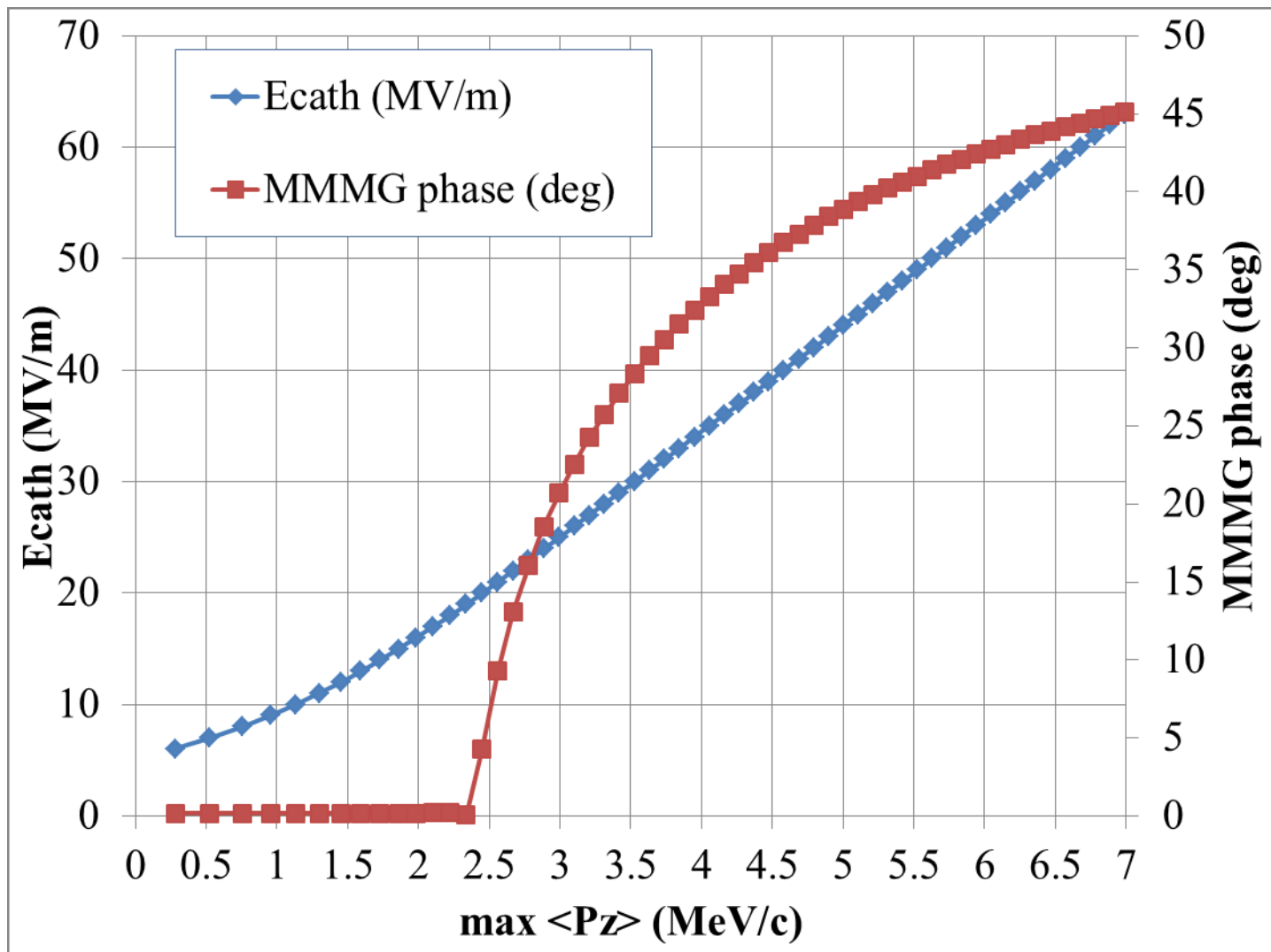
# w.r.t. Gun-4.4



# Field Balance rough modeling (FBgen)

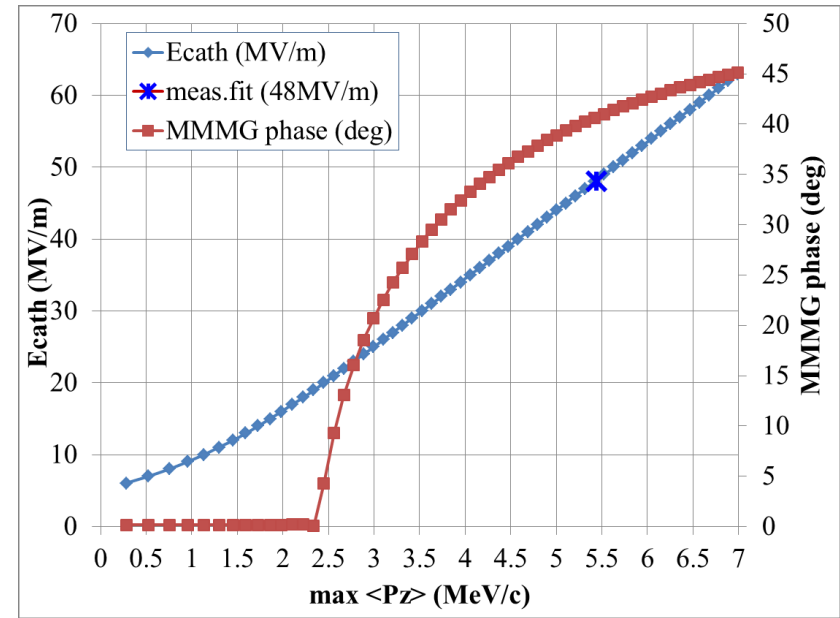
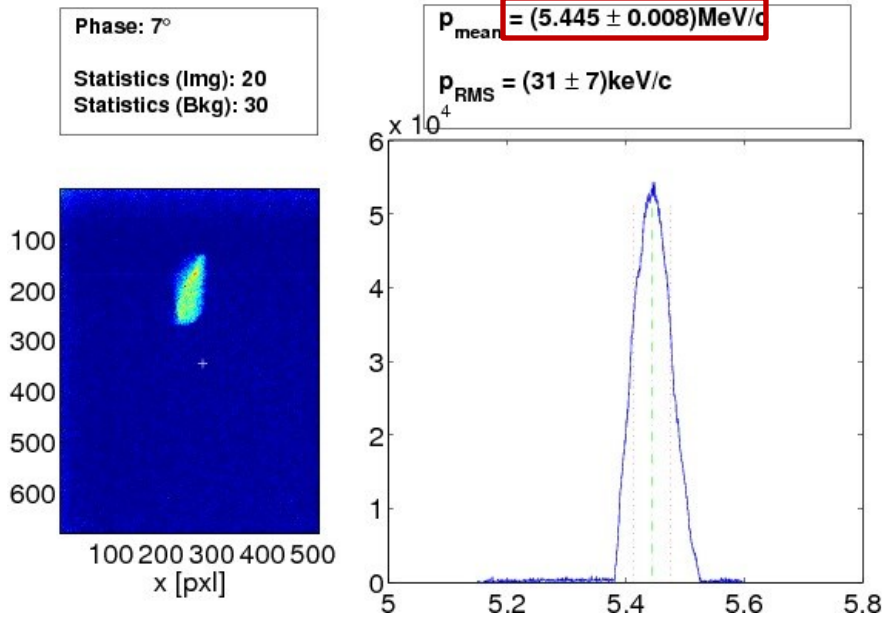


# MMMG tracking for FBgen





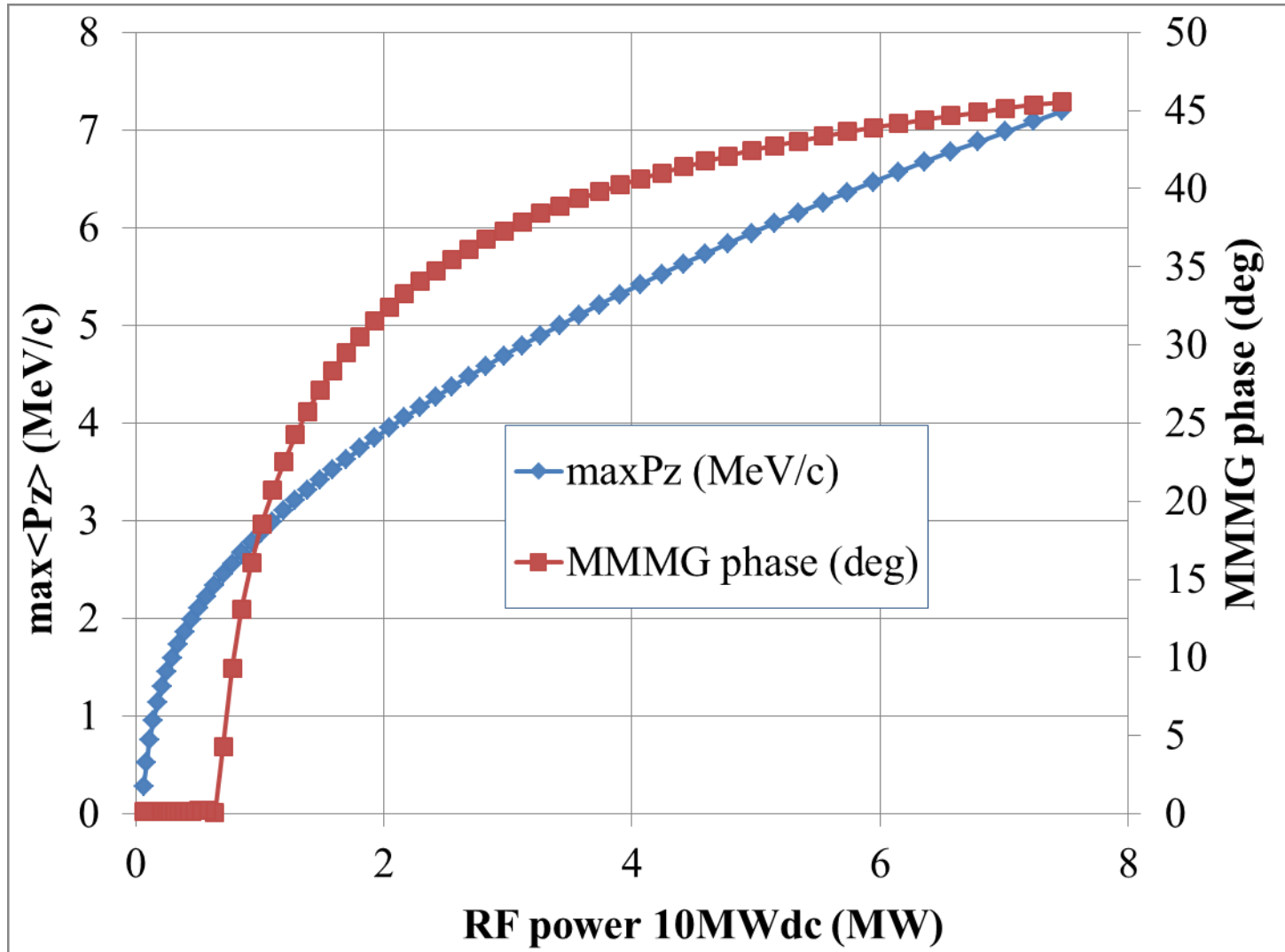
# Gun-4.6: First Pz measurements



GUN		code	0
		no pulse	
forward power	3.970 MW	gradient	44.311 MV/m
reflected power	0.442 MW	slope	6.869 dBm/ms
power	3.531 MW	reflection	109.923 %%
rf2c10mw_MC.xml PITZ.UTIL/RF2INFO/RF2/			
RF2C10MW		code	0
		no pulse	
forward power	4.248 MW	gradient	47.388 MV/m
reflected power	0.197 MW	slope	13.303 dBm/ms
power	4.070 MW	reflection	46.914 %%

# MMMG tracking for FBgen

$$P_{\text{gun}}(10\text{MWdc}) = 0.001766 * E_{\text{cath}}^2$$



# RF power in gun vs. Ecath

$$P_{\text{gun}}(10\text{MWdc}) = 0.001766 * E_{\text{cath}}^2$$

