

DAC offset vs  $\Phi_{bias}$

$V_{outputNuller}$  vs Frequency

$V_{outputNuller}$  vs Feedback

$V_{outputNuller}$  vs Crosstalk Measurements

$V_{outputCarrier}$  vs Frequency

Heater Voltage Set vs Heater Voltage Read

# DAC Offset as a Function of $\Phi_{bias}$





# Nuller Through the Amplification Chain's $V_{output}$ as a Function of Frequency







# Nuller Through the Feedback Loop's $V_{output}$ as a Function of Feedback





# Crosstalk Measurements with a Nuller going through the amplification chain





# Carrier Through the Amplification Chain's $V_{output}$ as a Function of Frequency







# Heater Voltage Read as a Function of Heater Voltage Set



