

# 1 Beam Current vs X and Y Position

This test will test the dependence on beam position with relation to beam current. The test is carried out by supplying an output signal from an RF signal generator and slowly ramping up the power while recording both the beam current, and both the X and Y positions measured from the BPM device itself. The frequency is fixed for the test, and the output power will linearly step up from RF signal generator from the start and end power values supplied to the test, the number of steps it takes to get there will be the number of samples asked for + 1.

**The devices used for this test are:**

Rigol Technologies,DSG3030,DSG3B174500308,00.01.06  
Libera BPM with the Epics ID "TS-DI-EBPM-04:"

**The parameters used in this test are:**

Frequency: 499.681 768 20MHz  
Initial Output Power: -100.00DBM  
Final Output Power: 0.00DBM  
Samples: 100  
Settling time between each measurement: 2 seconds

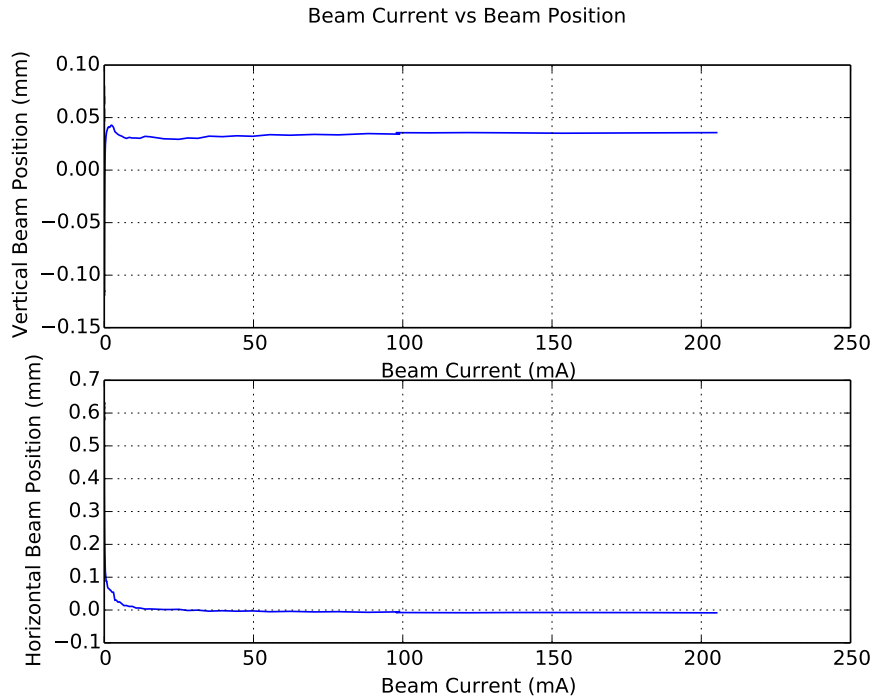


Figure 1: Beam Current vs X and Y Position