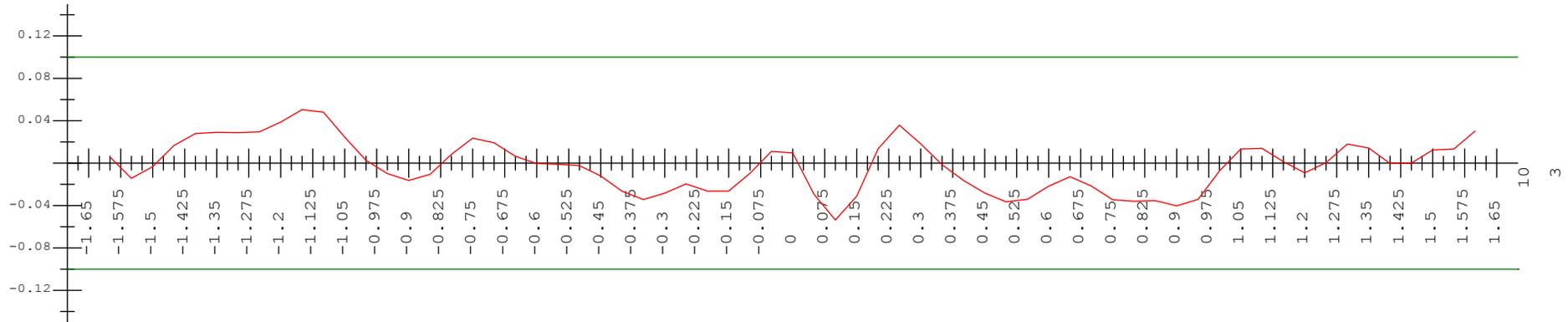


Vacuum Chamber Centerline Profile to Magnetic Axis X Centerline, Green line = +/- .100 Tol.

Red = Actual Chamber Centerline



Quadrupole

Value	Nominal	Actual	Deviation
X Center	0.000	-0.013	-0.013
Y Center	0.000	0.024	0.024
Z Center	1830.000	1829.956	-0.044
Roll	0.000	0.038	0.038
Pitch	0.000	0.082	0.082
Yaw	0.000	0.078	0.078

BPM

Value	Nominal	Actual	Deviation
US X	0.000	-0.034	-0.034
US Y	0.000	-0.027	-0.027
DS X	0.000	0.029	0.029
DS Y	0.000	-0.012	-0.012
Roll	0.000	0.623	0.623
BPM-QUAD	128.120	127.538	-0.582

Phase Shifter Chamber

Value	Nominal	Actual	Deviation
US X	0.000	0.150	0.150
US Y	0.000	0.007	0.007
DS X	0.000	0.130	0.130
DS Y	0.000	0.003	0.003

Dimensions in MM, Angles in Milliradians



**HGVPU - Chamber Profile and Interspace Components**

**Installed Quad S/N: 0713**

**S/N : HXU\_020**  
**Date : 15-NOV-2019**  
**Data Set : 0001**  
**Run : 1**  
**Cam Pos. : B**