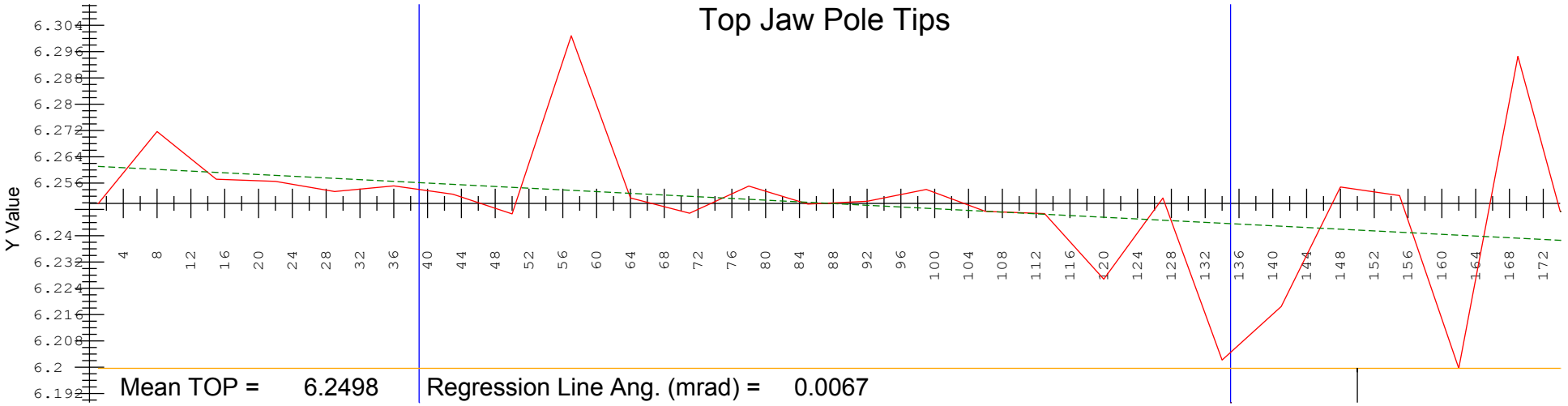
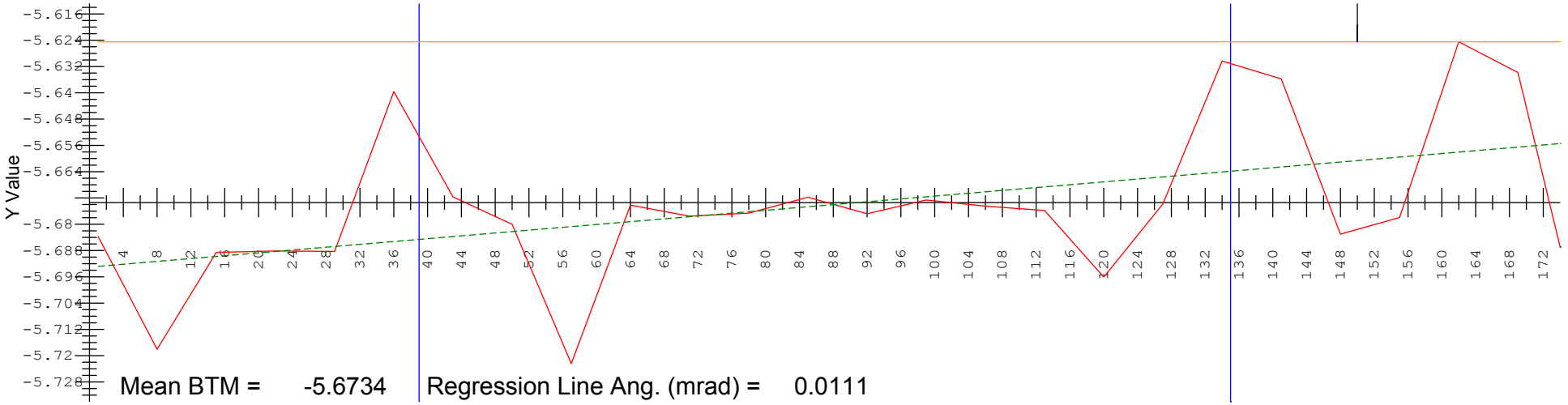


Mean TOP = 6.2498 Regression Line Ang. (mrad) = 0.0067

Pole Tip Num. ----> Bottom Jaw Pole Tips Minimum Effective Gap = 11.824



Mean BTM = -5.6734 Regression Line Ang. (mrad) = 0.0111

Y Value Scales Centered on Mean Values

Step Between Measured Pole Tips = 7

Regression Line Through Points = ----------

Dimensions in mm

SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

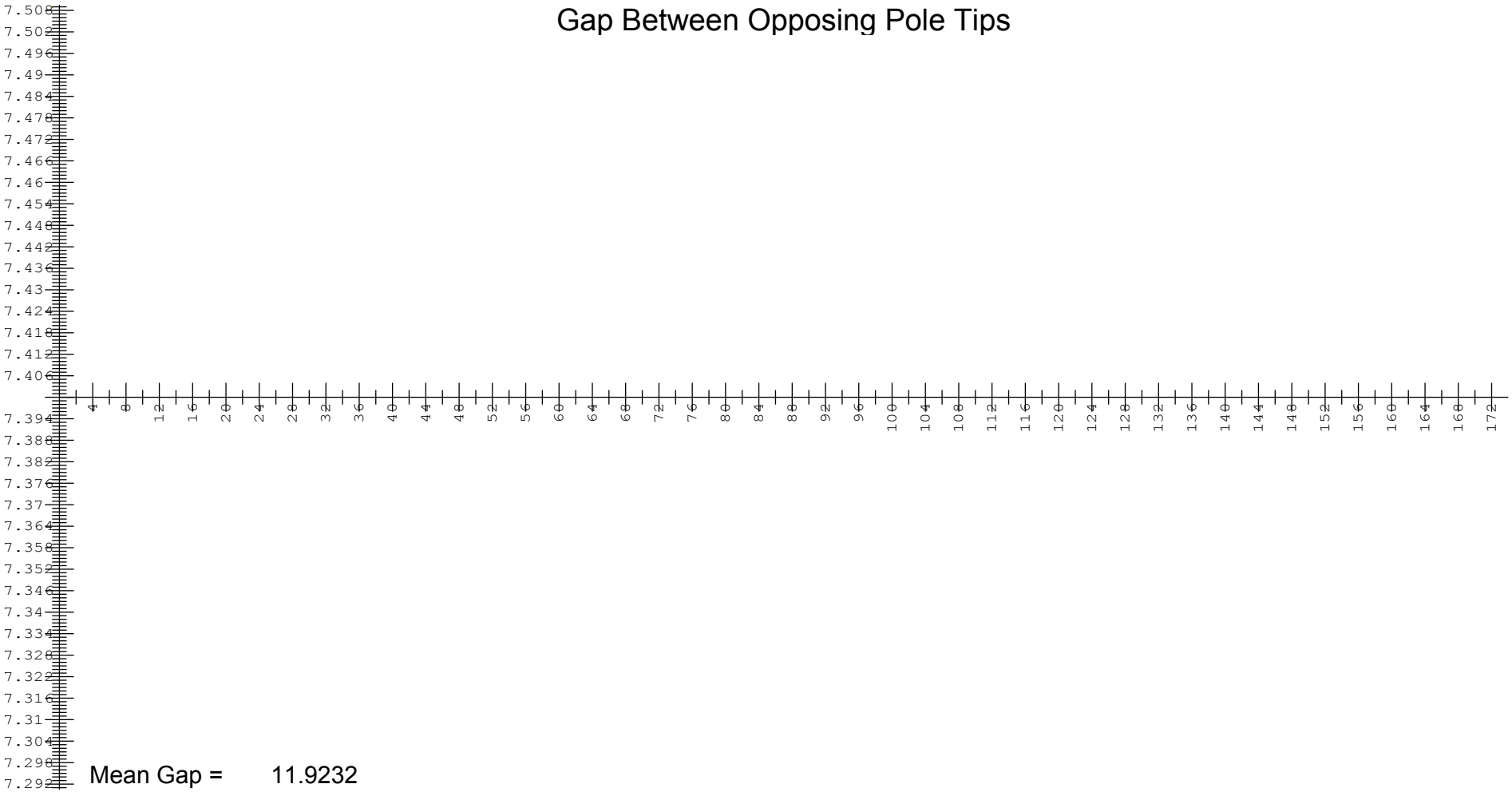
LCLS II - SXR Undulator

Nominal Gap = 7.4

Gap Reading = 10.0000 US Encoder = 10.0000 DS Encoder = 10.0000

26-FEB-2018
S/N = 001
D/S= 0002
Run= 4

Gap Between Opposing Pole Tips



Mean Gap = 11.9232

Step Between Measured Pole Tips = 7

Dimensions in mm

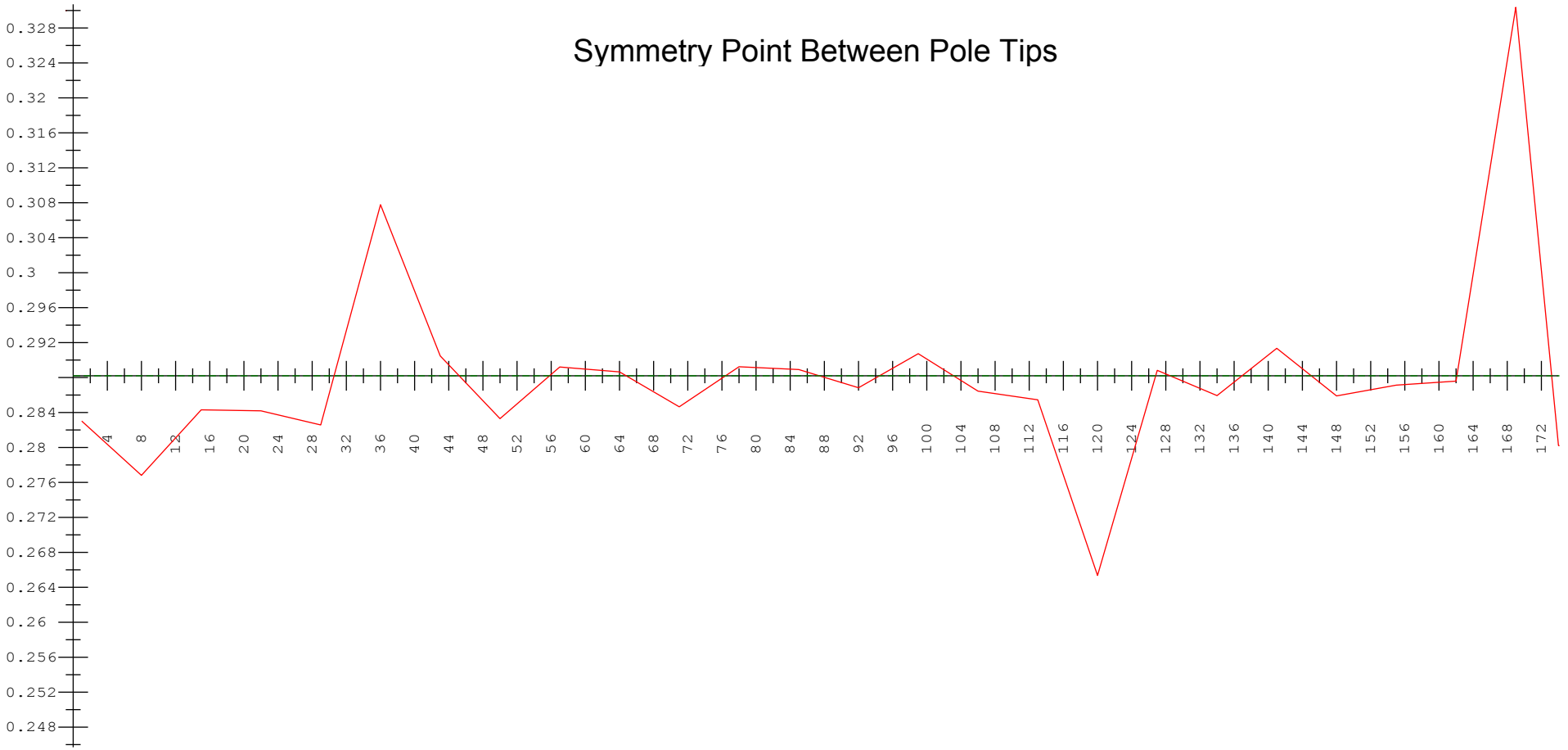
SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 7.4

Gap Reading = 10.0000 US Encoder = 10.0000 DS Encoder = 10.0000

26-FEB-2018
S/N = 001
D/S= 0002
Run= 4



Mean Symmetry Value = 0.2882

Step Between Measured Pole Tips = 7

Dimensions in mm

SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 7.4

Gap Reading = 10.0000 US Encoder = 10.0000 DS Encoder = 10.0000

26-FEB-2018
S/N = 001
D/S= 0002
Run= 4

Top and Bottom Jaw Regression Line Intersect Points

Jaw	First Pole (Pole 1)	US Actuator (Pole 39)	DS Actuator (Pole 135)	Last Pole (Pole 174)
Top	6.2611	6.2561	6.2437	6.2386
Bottom	-5.6928	-5.6846	-5.6639	-5.6555
Gap	11.9539			11.8941
Taper				-0.0598

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
6.2498	-5.6734	11.9232	0.2882

Additional Calculated Values

Bottom Pole #1 Z Value	979.273
Top Jaw Pitch (mrad)	0.007
Bottom Jaw Pitch(mrad)	0.011
Minimum Effective Gap	11.824
Reference Block Gap	6.810

Dimensions in mm

SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 7.4

Gap Reading = 10.0000 US Encoder = 10.0000 DS Encoder = 10.0000

26-FEB-2018
S/N = 001
D/S= 0002
Run= 4