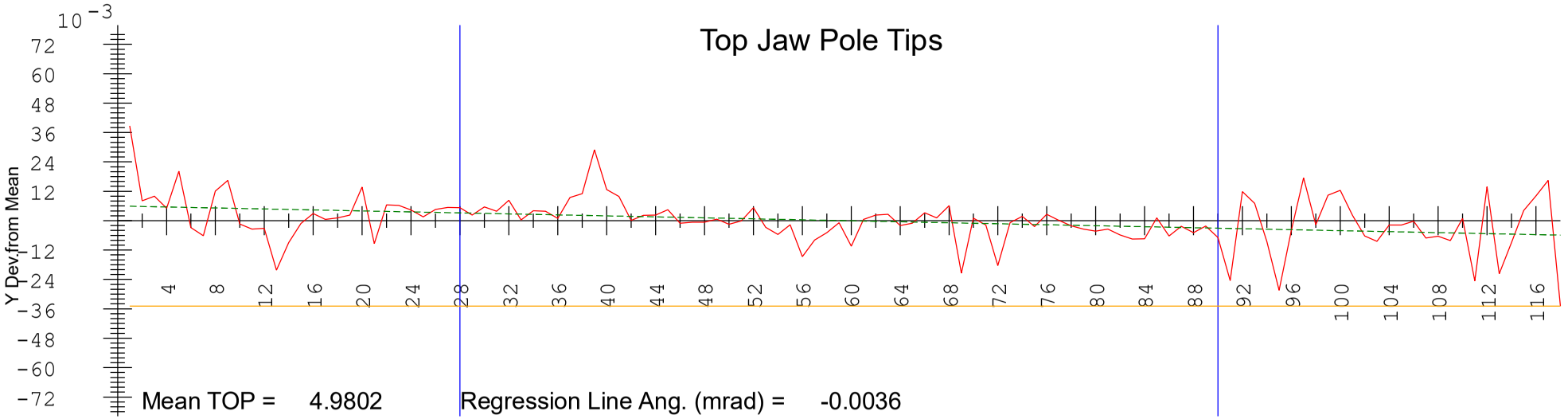
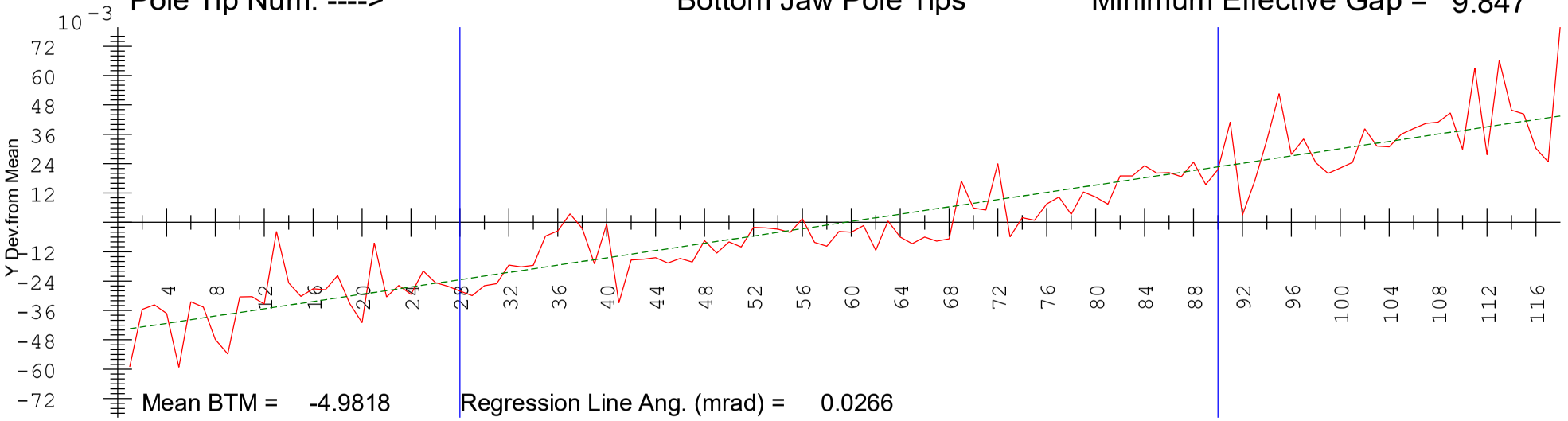


Pole Tip Num. ----> Bottom Jaw Pole Tips Minimum Effective Gap = 9.847



Y Value Scales Centered on Mean Values

Step Between Measured Pole Tips = 1

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

Dimensions in mm

METROLOGY

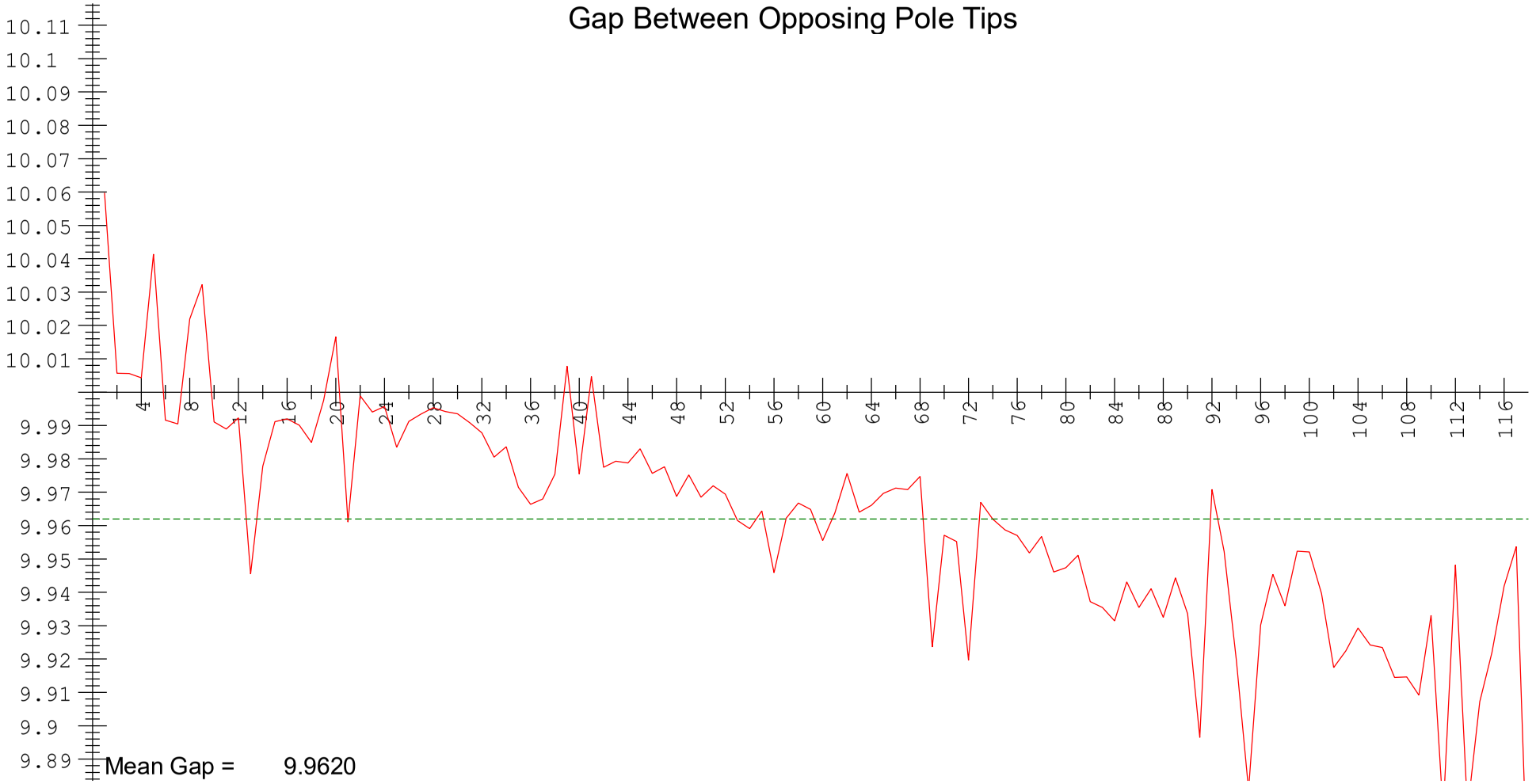
LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = -0.100

Gap Reading = 9.9500 US Encoder = 10.0000 DS Encoder = 9.9000

13-OCT-2022
S/N = 000
D/S= 0001
Run= 12

Gap Between Opposing Pole Tips



Step Between Measured Pole Tips = 1

Dimensions in mm

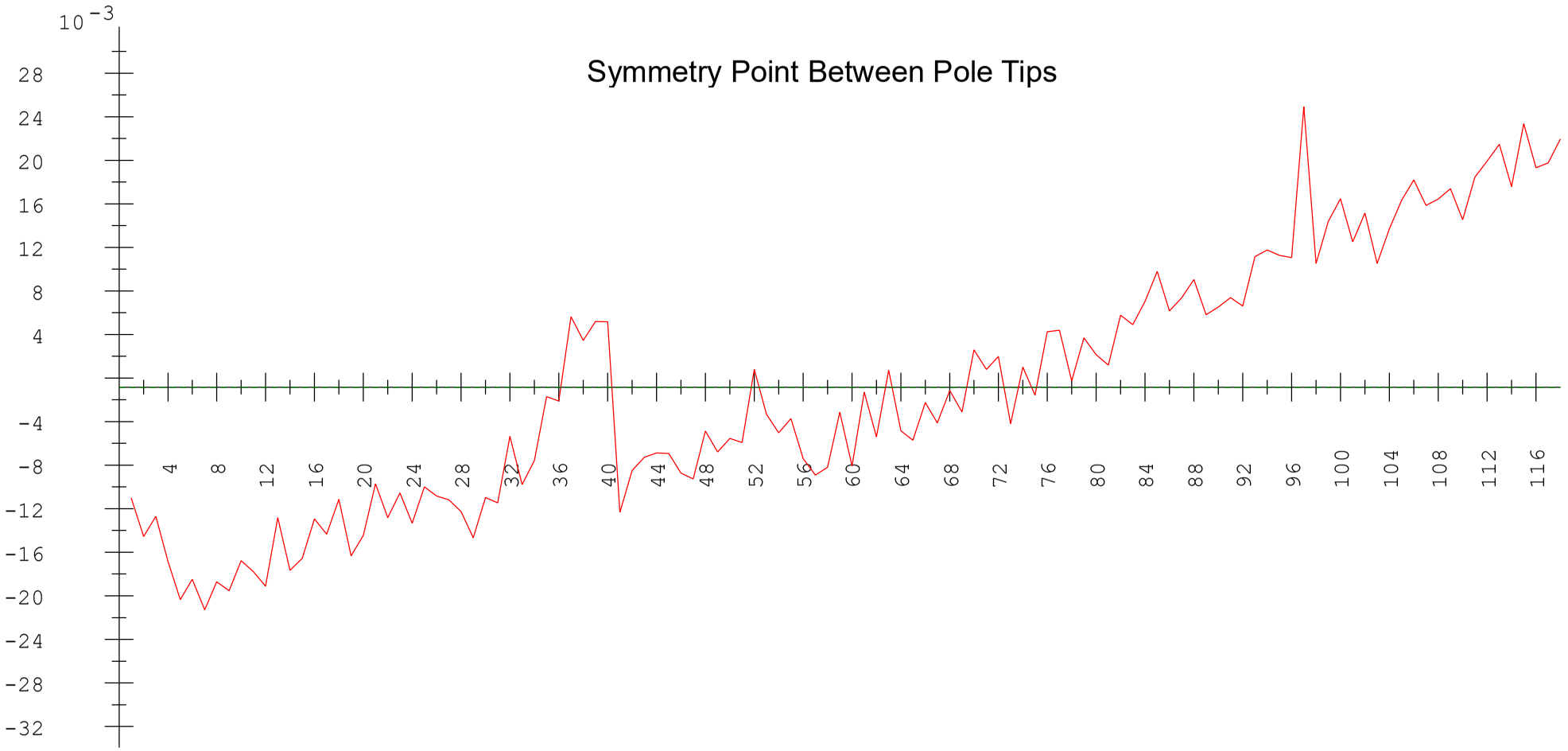
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = -0.100

Gap Reading = 9.9500 US Encoder = 10.0000 DS Encoder = 9.9000

13-OCT-2022
S/N = 000
D/S= 0001
Run= 12



Mean Symmetry Value = -0.0008

Step Between Measured Pole Tips = 1

Dimensions in mm

METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = -0.100

Gap Reading = 9.9500 US Encoder = 10.0000 DS Encoder = 9.9000

13-OCT-2022
S/N = 000
D/S= 0001
Run= 12

Top and Bottom Jaw
Regression Line Intersect Points

Jaw	First Pole (Pole 1)	US Actuator (Pole 28)	DS Actuator (Pole 90)	Last Pole (Pole 118)
Top	4.9861	4.9833	4.9771	4.9743
Bottom	-5.0253	-5.0053	-4.9592	-4.9383
Gap	10.0114			9.9126
Taper				-0.0988

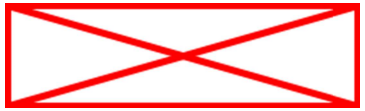
Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
4.9802	-4.9818	9.9620	-0.0008

Additional Calculated Values

Bottom Pole #1 Z Value	974.772
Top Jaw Pitch (mrad)	-0.004
Bottom Jaw Pitch(mrad)	0.027
Minimum Effective Gap	9.847
Reference Block Gap	6.792

Dimensions in mm



METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = -0.100

Gap Reading = 9.9500 US Encoder = 10.0000 DS Encoder = 9.9000

13-OCT-2022
S/N = 000
D/S= 0001
Run= 12