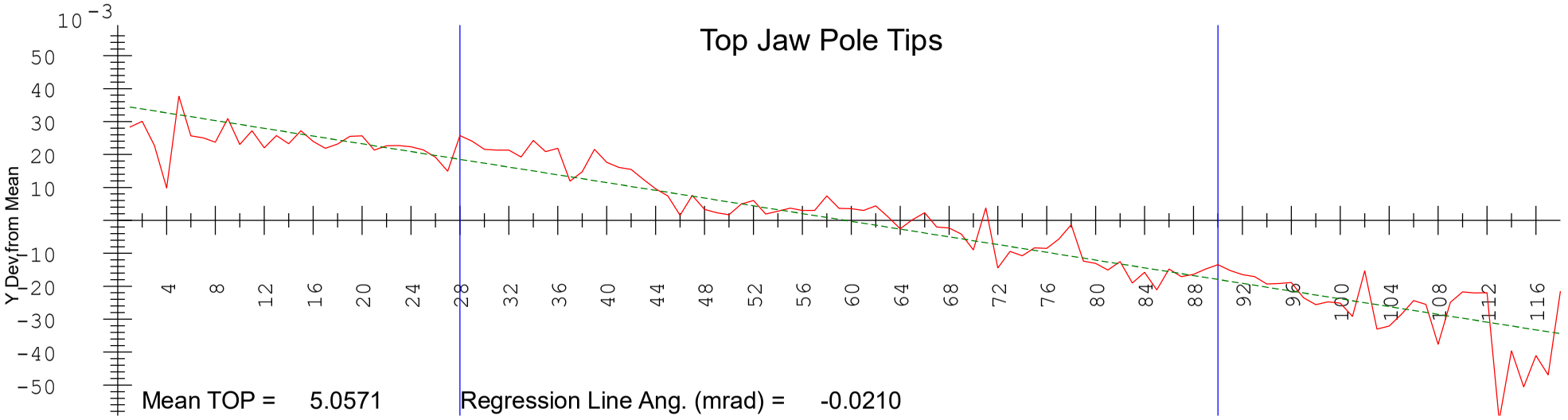
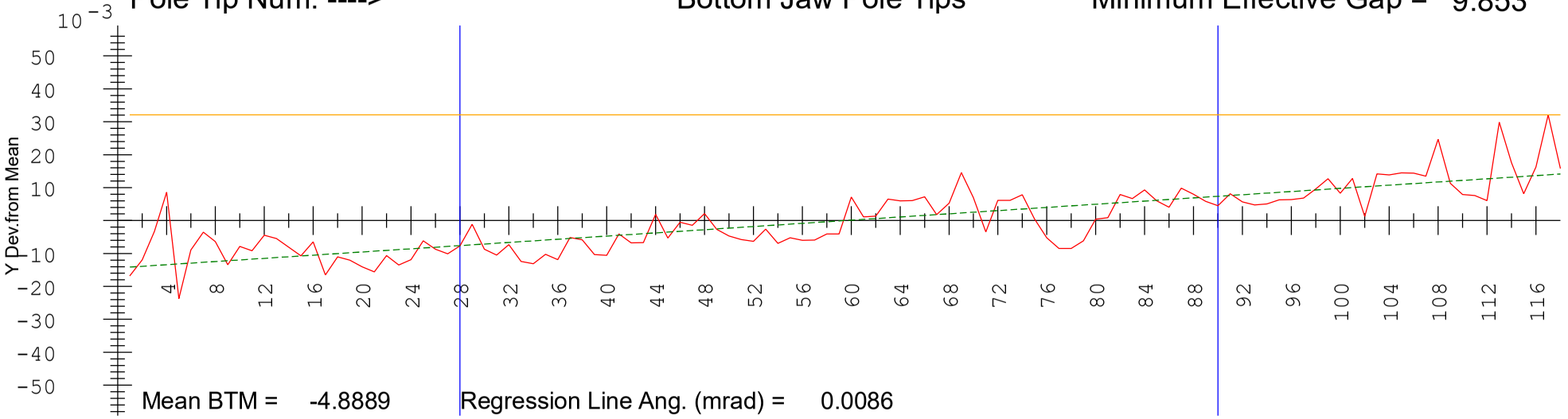


Pole Tip Num. ----> Bottom Jaw Pole Tips Minimum Effective Gap = 9.853



Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips = 1

Regression Line Through Points =----------
Dimensions in mm

METROLOGY

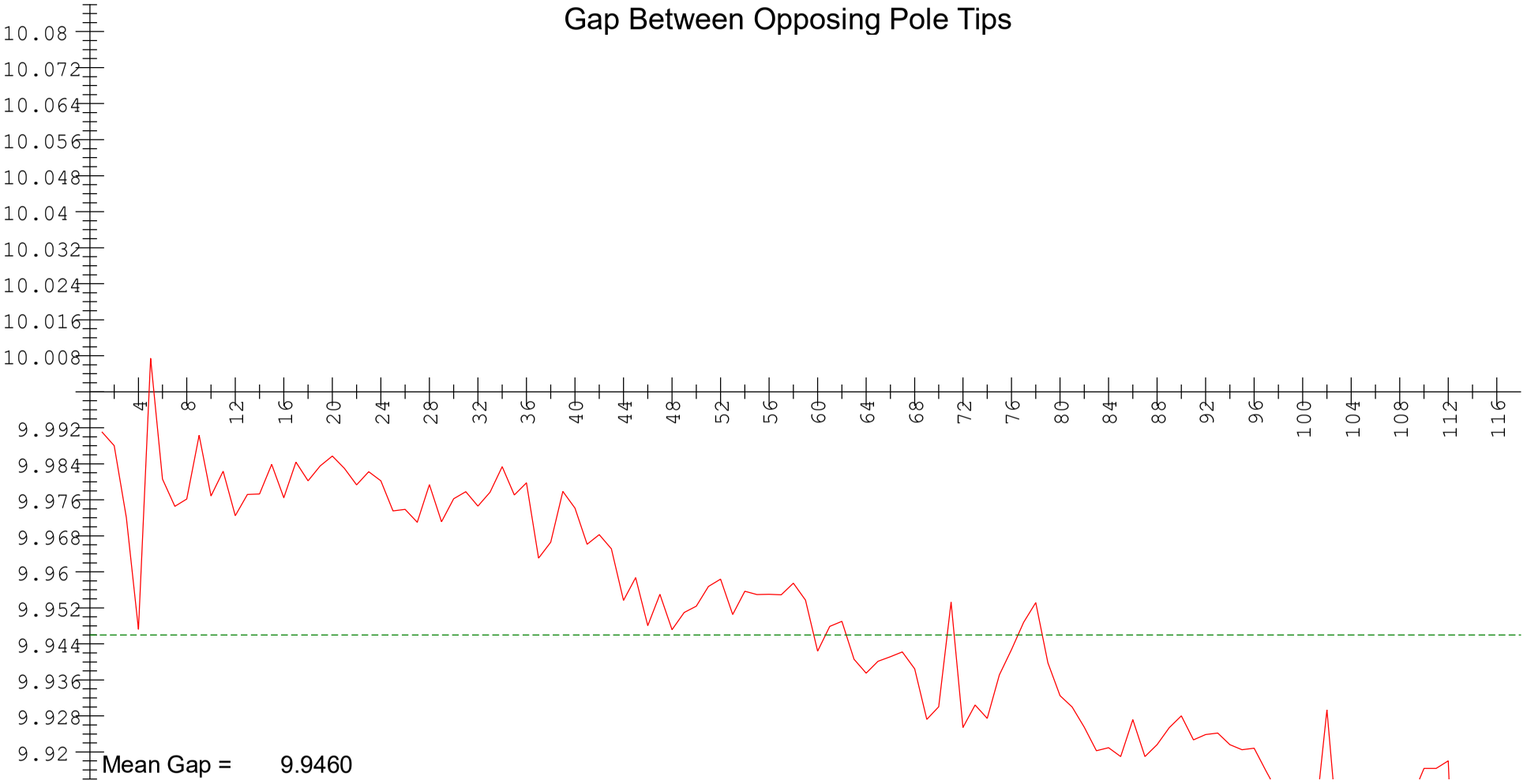
LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = -0.100

Gap Reading = 9.9499 US Encoder = 10.0000 DS Encoder = 9.9000

28-OCT-2024
S/N = 024
D/S= 0001
Run= 14

Gap Between Opposing Pole Tips



Step Between Measured Pole Tips = 1

Dimensions in mm

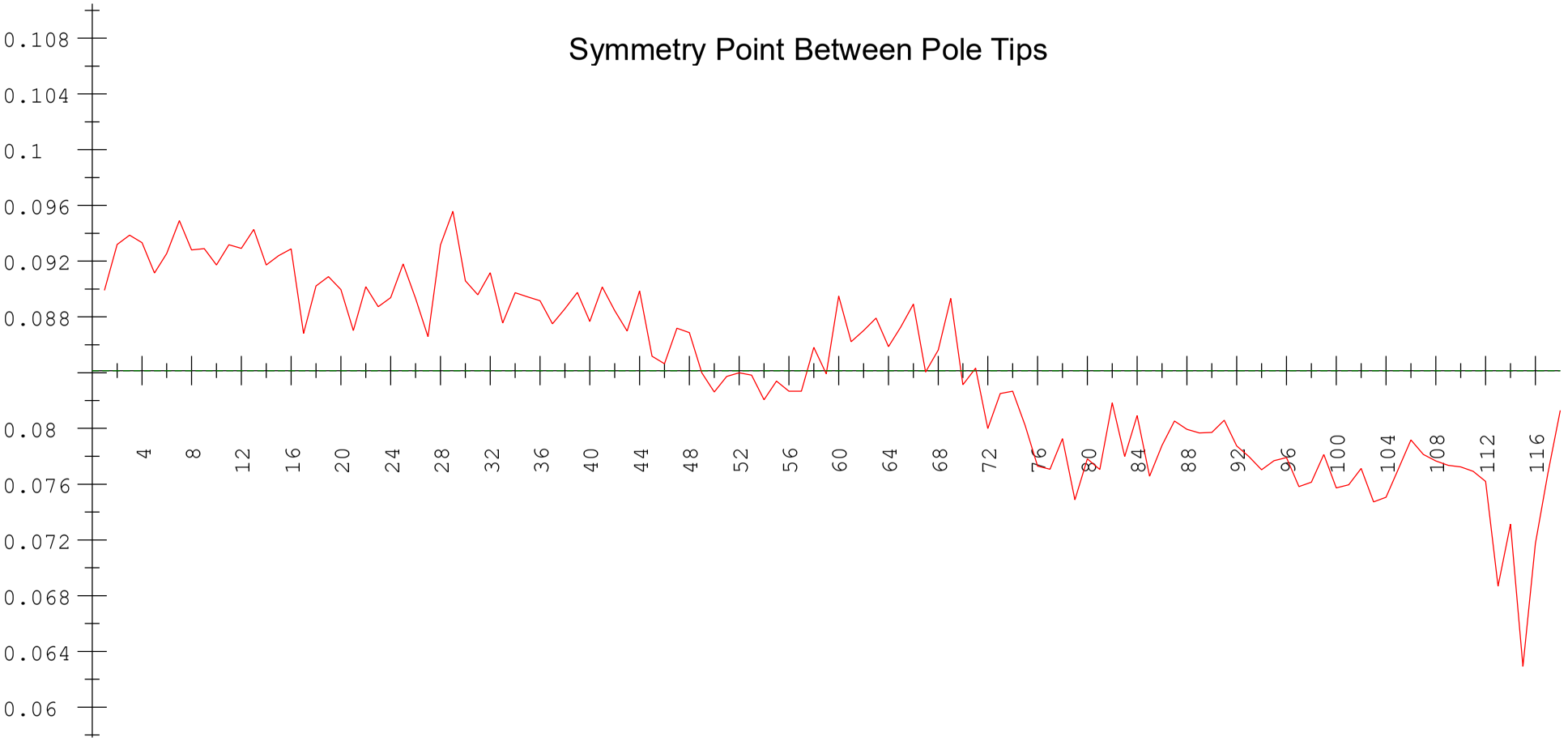
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = -0.100

Gap Reading = 9.9499 US Encoder = 10.0000 DS Encoder = 9.9000

28-OCT-2024
S/N = 024
D/S= 0001
Run= 14



Mean Symmetry Value = 0.0841

Step Between Measured Pole Tips = 1

Dimensions in mm

METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = -0.100

Gap Reading = 9.9499 US Encoder = 10.0000 DS Encoder = 9.9000

28-OCT-2024
S/N = 024
D/S= 0001
Run= 14

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	5.0916	5.0757	5.0392	5.0227
Bottom	-4.9030	-4.8965	-4.8815	-4.8747
Gap	9.9945			9.8974
Taper				-0.0971

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0571	-4.8889	9.9460	0.0841

Additional Calculated Values

Bottom Pole #1 Z Value	978.888
Top Jaw Pitch (mrad)	-0.021
Bottom Jaw Pitch(mrad)	0.009
Minimum Effective Gap	9.853
Reference Block Gap	6.803

Dimensions in mm

METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = -0.100

Gap Reading = 9.9499 US Encoder = 10.0000 DS Encoder = 9.9000

28-OCT-2024
S/N = 024
D/S= 0001
Run= 14