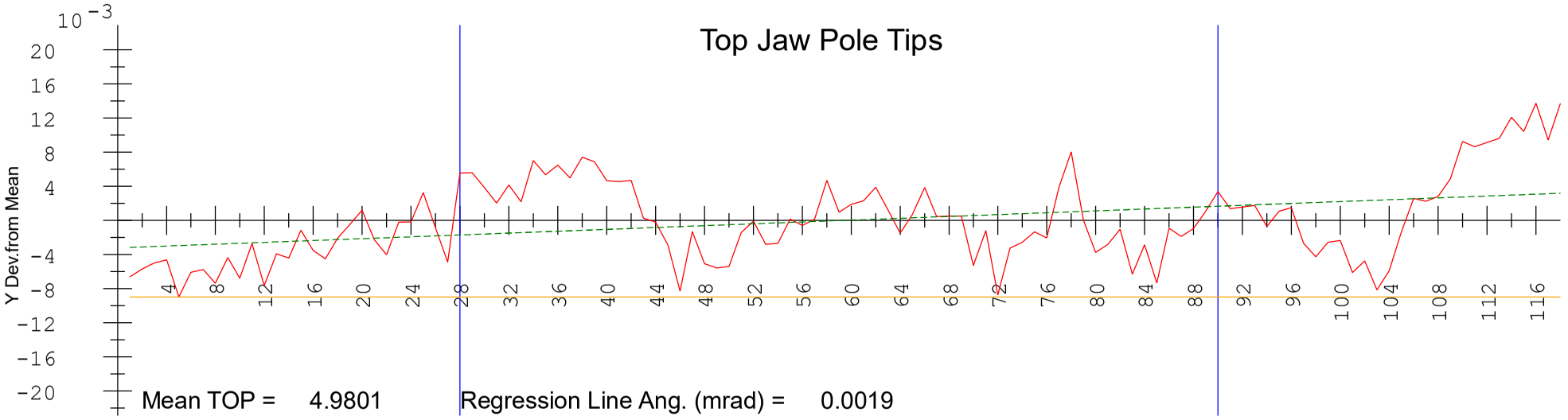
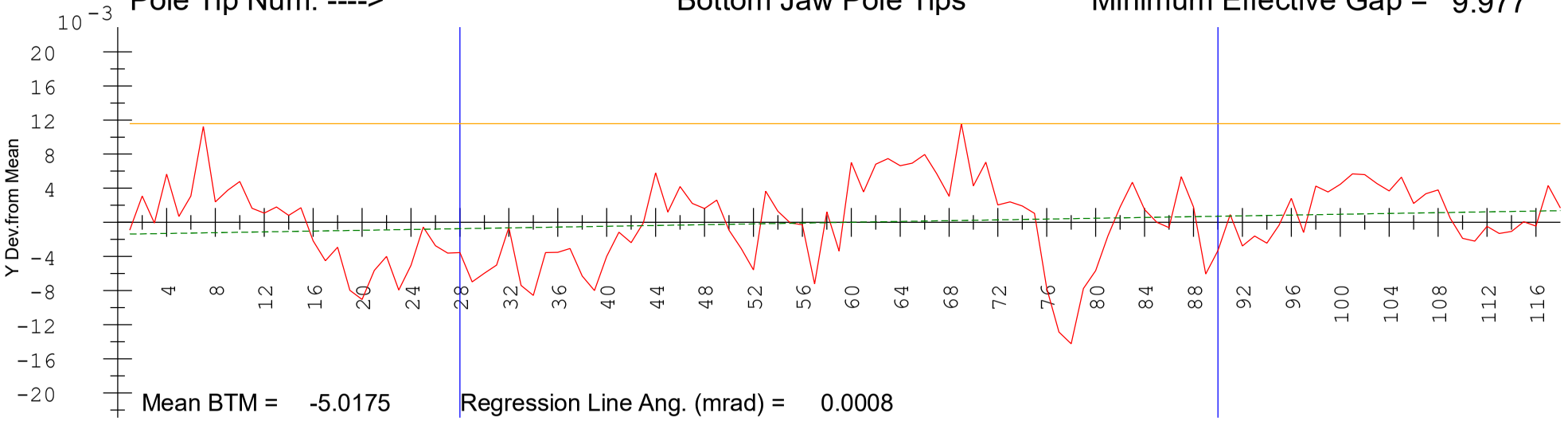


Pole Tip Num. ----> Bottom Jaw Pole Tips Minimum Effective Gap = 9.977



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

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

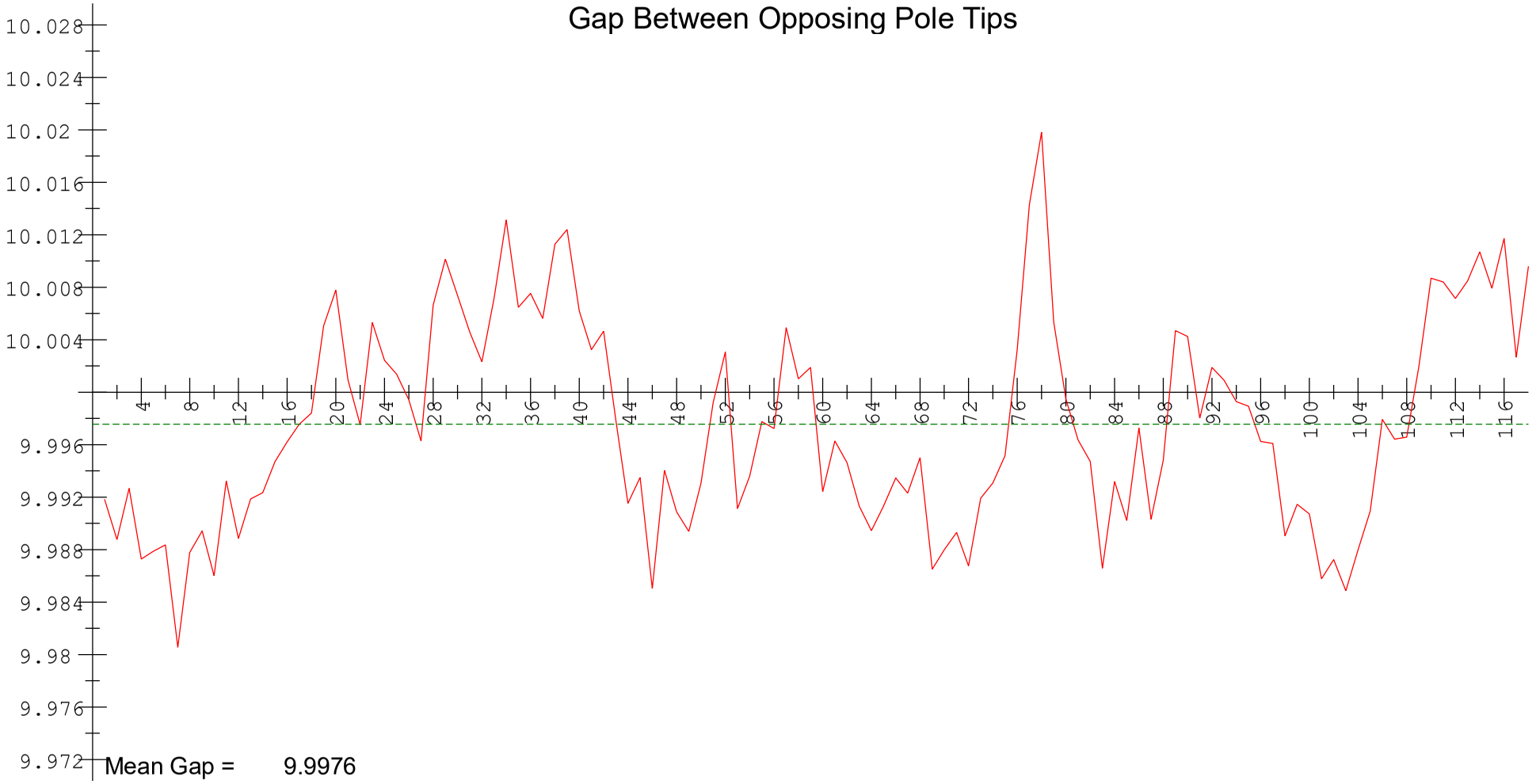
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000

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

15-OCT-2024
S/N = 027
D/S= 0001
Run= 3



Step Between Measured Pole Tips = 1

Dimensions in mm

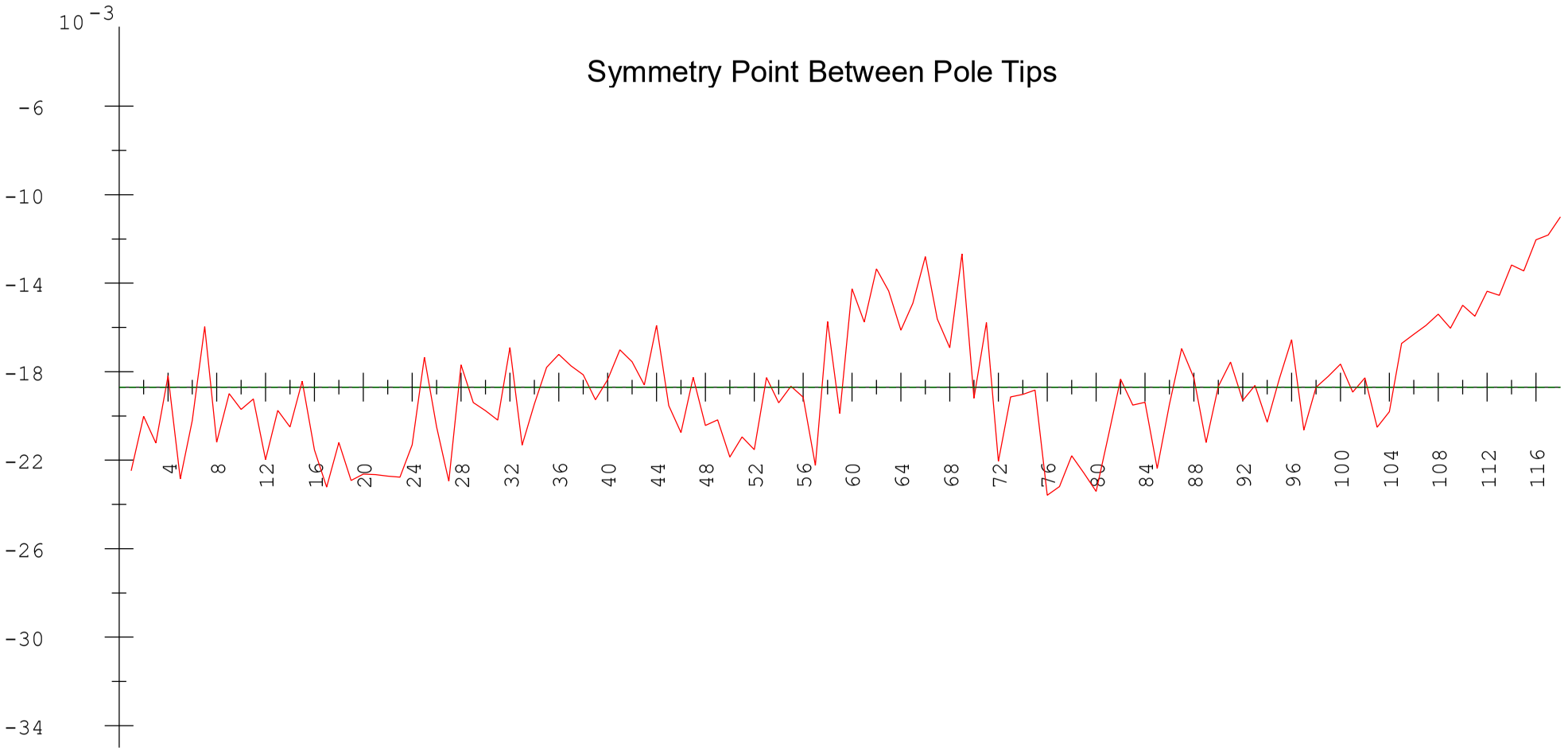
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000

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

15-OCT-2024
S/N = 027
D/S= 0001
Run= 3



Mean Symmetry Value = -0.0187

Step Between Measured Pole Tips = 1

Dimensions in mm

METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000

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

15-OCT-2024
S/N = 027
D/S= 0001
Run= 3

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	4.9769	4.9784	4.9817	4.9833
Bottom	-5.0189	-5.0182	-5.0168	-5.0161
Gap	9.9958			9.9994
Taper				0.0036

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
4.9801	-5.0175	9.9976	-0.0187

Additional Calculated Values

Bottom Pole #1 Z Value	978.897
Top Jaw Pitch (mrad)	0.002
Bottom Jaw Pitch(mrad)	0.001
Minimum Effective Gap	9.977
Reference Block Gap	6.801

Dimensions in mm

METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000

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

15-OCT-2024
S/N = 027
D/S= 0001
Run= 3