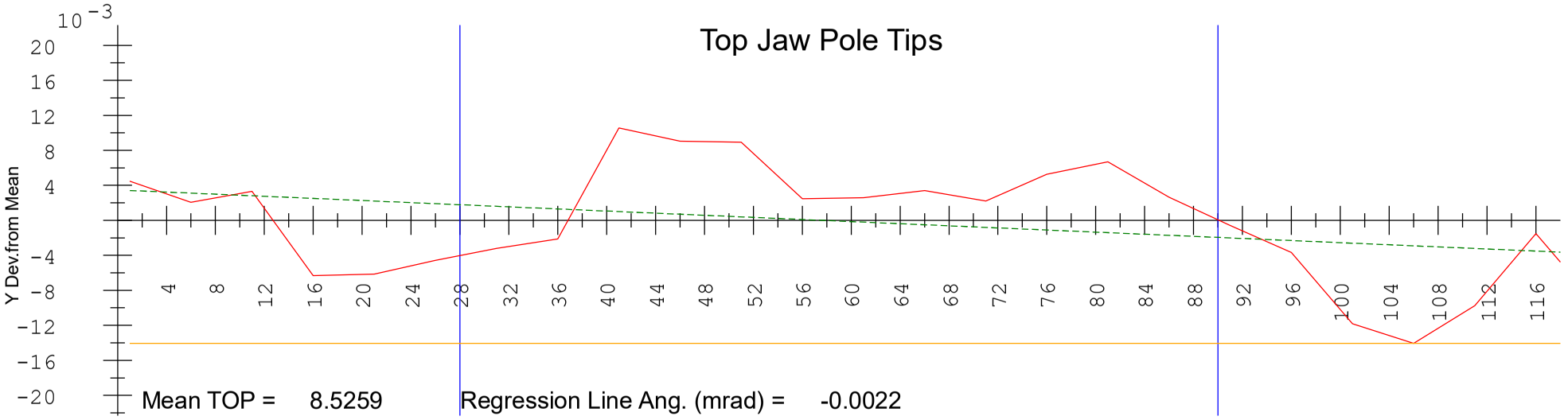
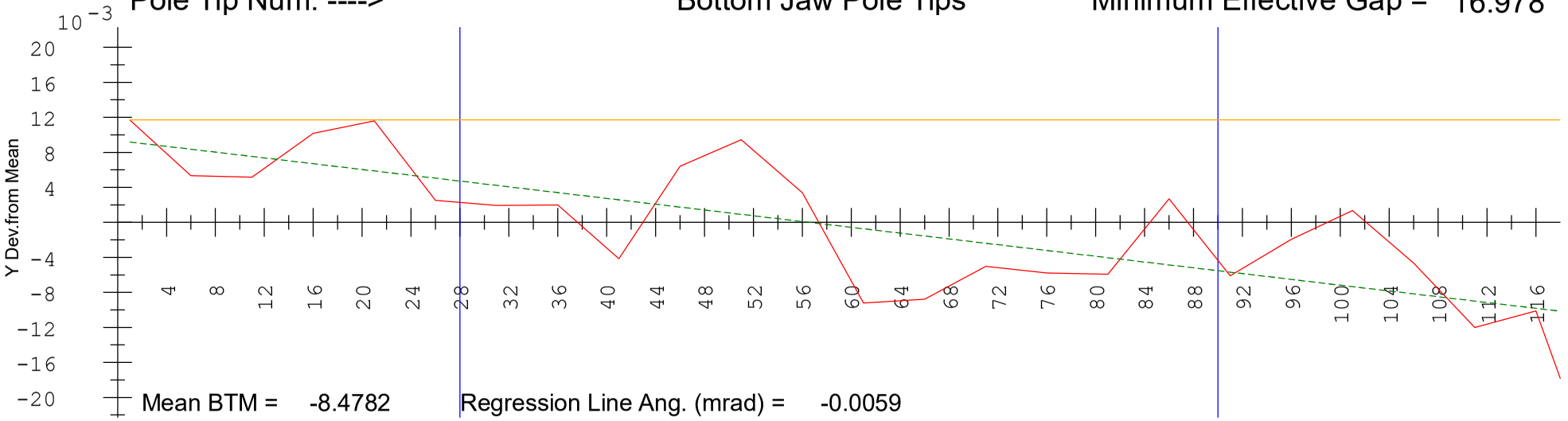


Pole Tip Num. ----> Bottom Jaw Pole Tips Minimum Effective Gap = 16.978



Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips = 5

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

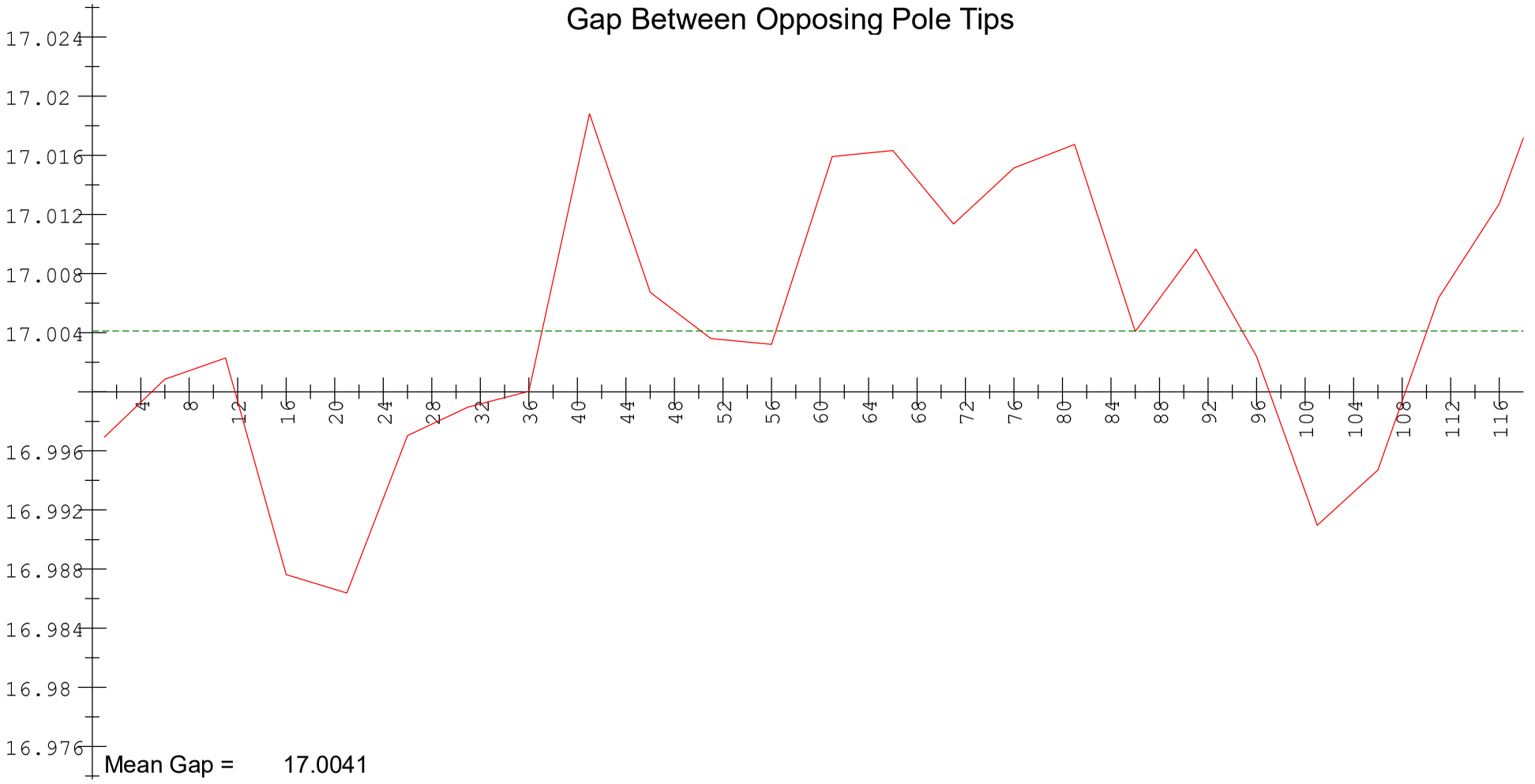
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 17 Nominal Taper = 0.000

Gap Reading = 17.0000 US Encoder = 17.0000 DS Encoder = 17.0001

23-MAY-2024
S/N = 023
D/S= 0001
Run= 13



Step Between Measured Pole Tips = 5

Dimensions in mm

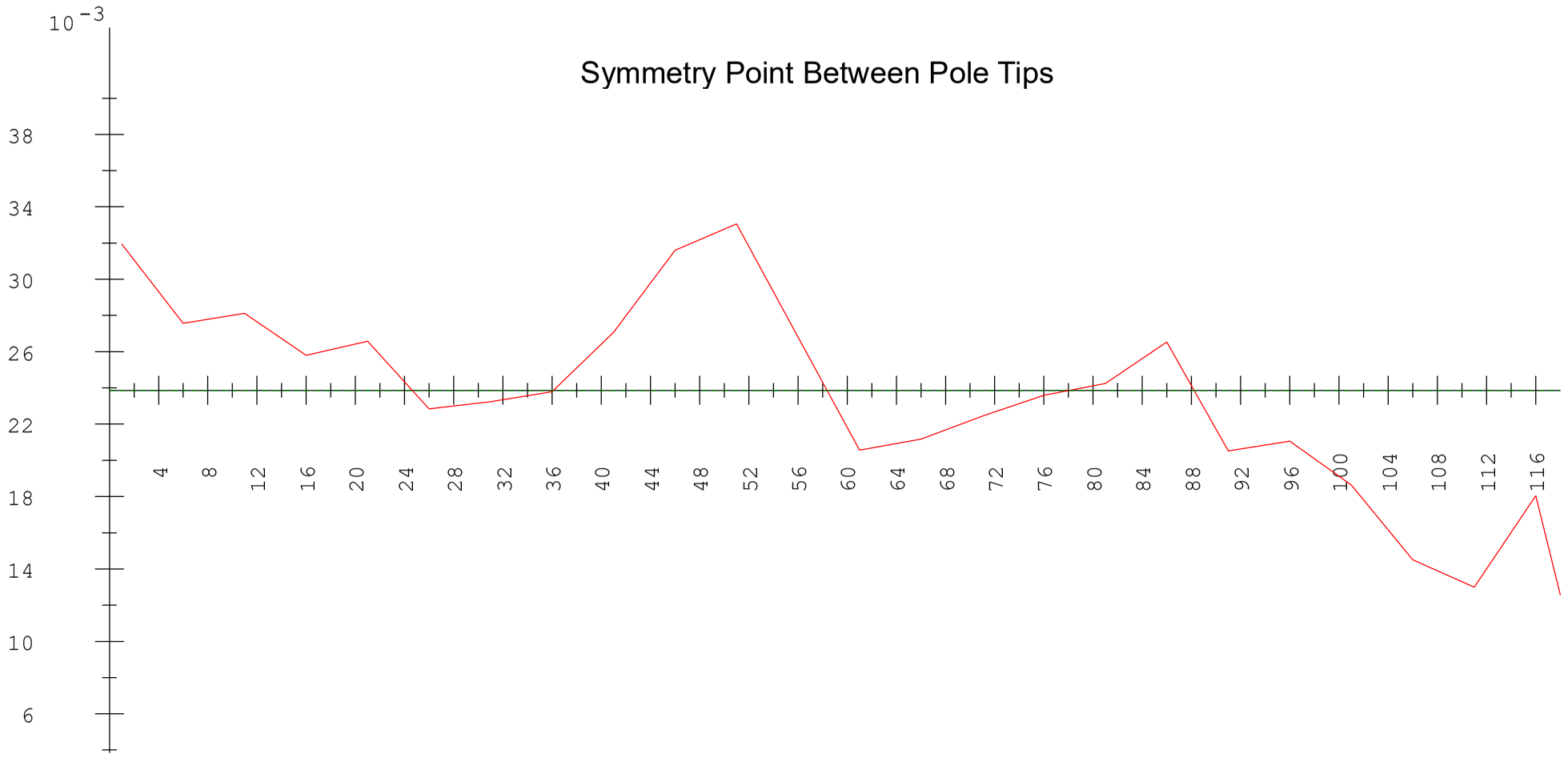
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 17 Nominal Taper = 0.000

Gap Reading = 17.0000 US Encoder = 17.0000 DS Encoder = 17.0001

23-MAY-2024
S/N = 023
D/S= 0001
Run= 13



Mean Symmetry Value = 0.0239

Step Between Measured Pole Tips = 5

Dimensions in mm

METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 17 Nominal Taper = 0.000

Gap Reading = 17.0000 US Encoder = 17.0000 DS Encoder = 17.0001

23-MAY-2024
S/N = 023
D/S= 0001
Run= 13

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	8.5293	8.5277	8.5240	8.5223
Bottom	-8.4690	-8.4735	-8.4837	-8.4883
Gap	16.9984			17.0106
Taper				0.0123

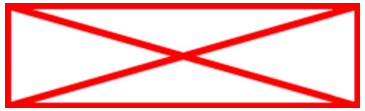
Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
8.5259	-8.4782	17.0041	0.0239

Additional Calculated Values

Bottom Pole #1 Z Value	979.438
Top Jaw Pitch (mrad)	-0.002
Bottom Jaw Pitch(mrad)	-0.006
Minimum Effective Gap	16.978
Reference Block Gap	6.799

Dimensions in mm



METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 17 Nominal Taper = 0.000

Gap Reading = 17.0000 US Encoder = 17.0000 DS Encoder = 17.0001

23-MAY-2024
S/N = 023
D/S= 0001
Run= 13