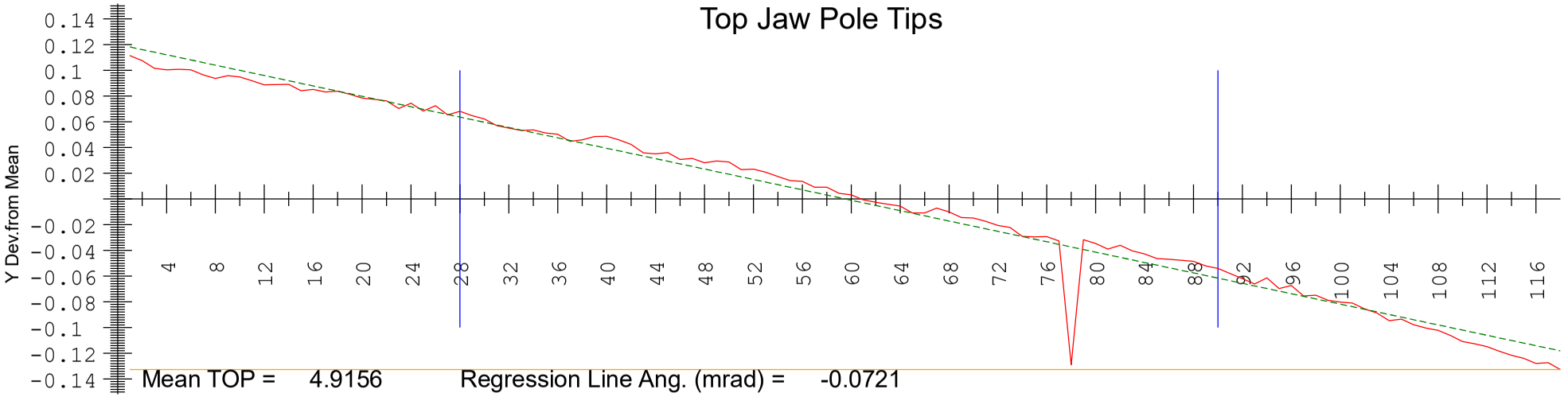
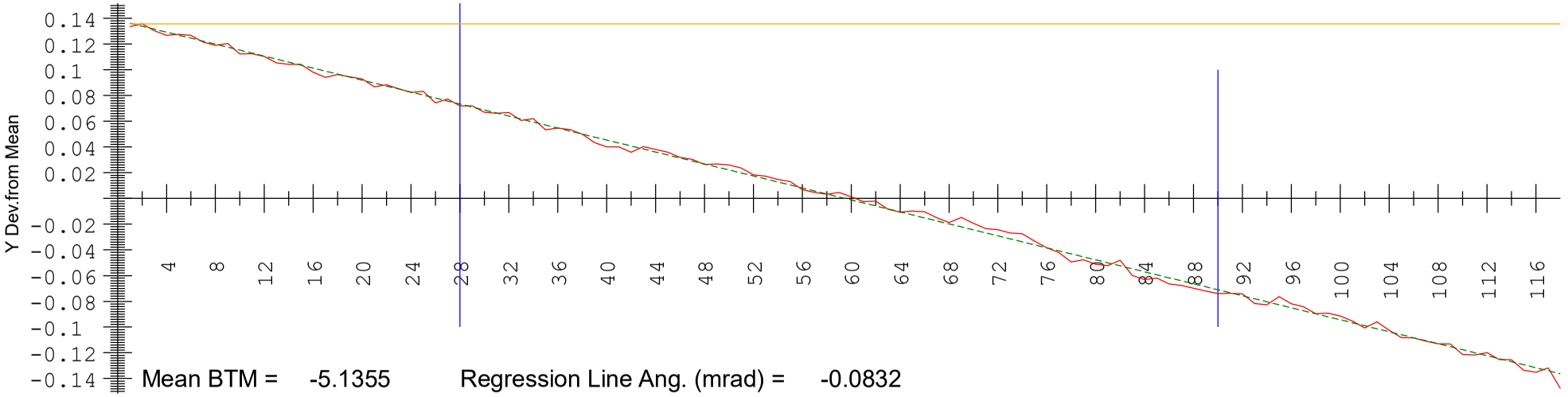


Pole Tip Num. ----> Minimum Effective Gap = 9.783



Y Value Scales Centered on Mean Values

Step Between Measured Pole Tips = 1

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

Dimensions in mm

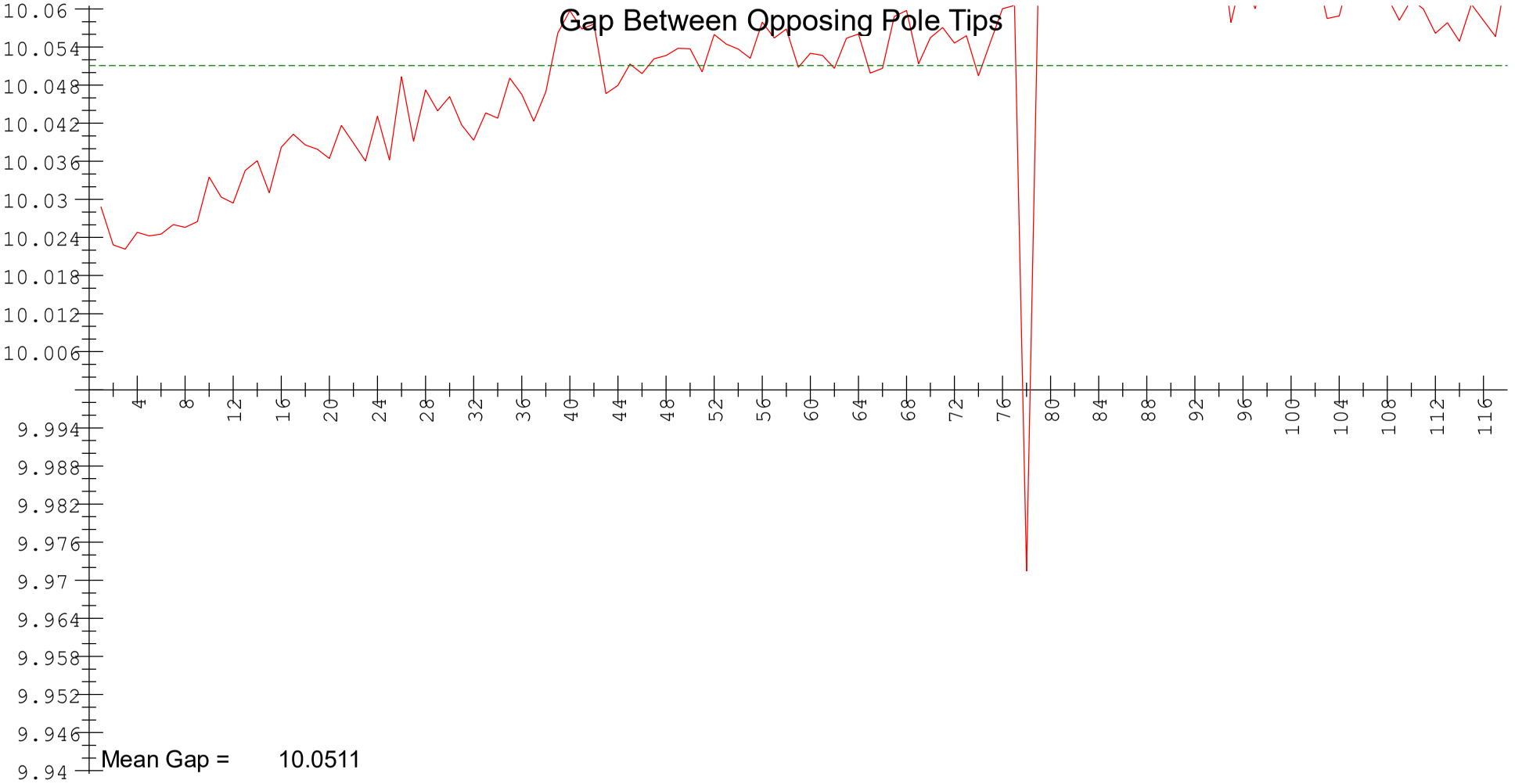
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000

Gap Reading = 10.0004 US Encoder = 10.0005 DS Encoder = 10.0004

03-MAR-2025
S/N = 031
D/S= 0001
Run= 1



Step Between Measured Pole Tips = 1

Dimensions in mm

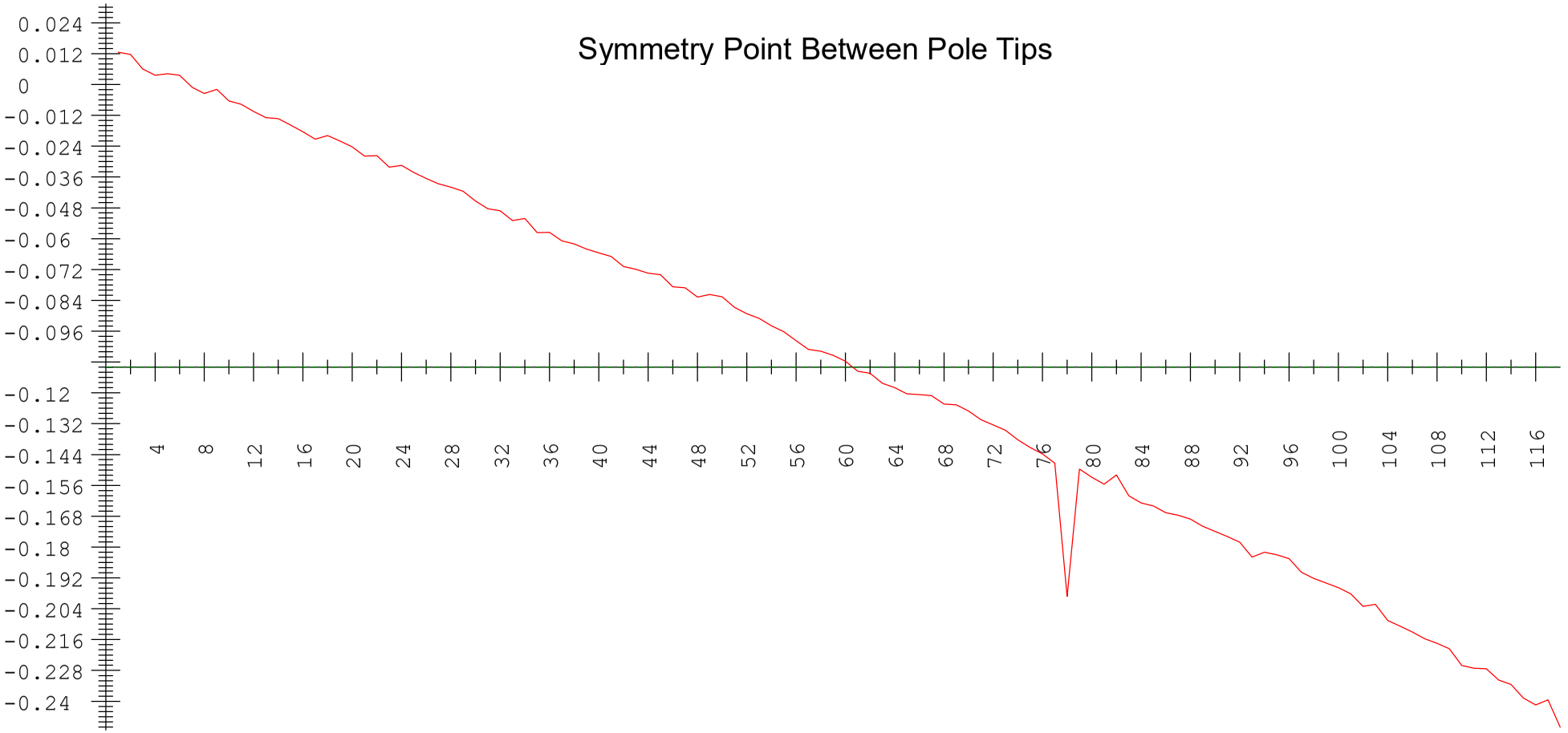
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000

Gap Reading = 10.0004 US Encoder = 10.0005 DS Encoder = 10.0004

03-MAR-2025
S/N = 031
D/S= 0001
Run= 1



Mean Symmetry Value = -0.1100

Step Between Measured Pole Tips = 1

Dimensions in mm

METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000

Gap Reading = 10.0004 US Encoder = 10.0005 DS Encoder = 10.0004

03-MAR-2025
S/N = 031
D/S= 0001
Run= 1

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	5.0337	4.9792	4.8540	4.7975
Bottom	-4.9993	-5.0622	-5.2065	-5.2717
Gap	10.0330			10.0692
Taper				0.0362

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
4.9156	-5.1355	10.0511	-0.1100

Additional Calculated Values

Bottom Pole #1 Z Value	978.458
Top Jaw Pitch (mrad)	-0.072
Bottom Jaw Pitch(mrad)	-0.083
Minimum Effective Gap	9.783
Reference Block Gap	6.801

Dimensions in mm

METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000

Gap Reading = 10.0004 US Encoder = 10.0005 DS Encoder = 10.0004

03-MAR-2025
S/N = 031
D/S= 0001
Run= 1