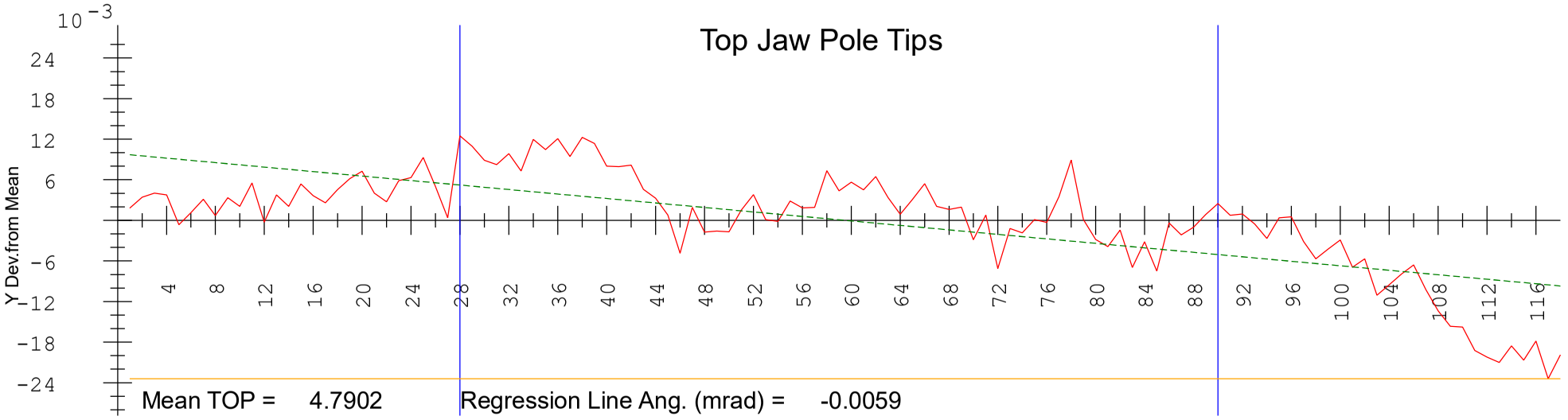
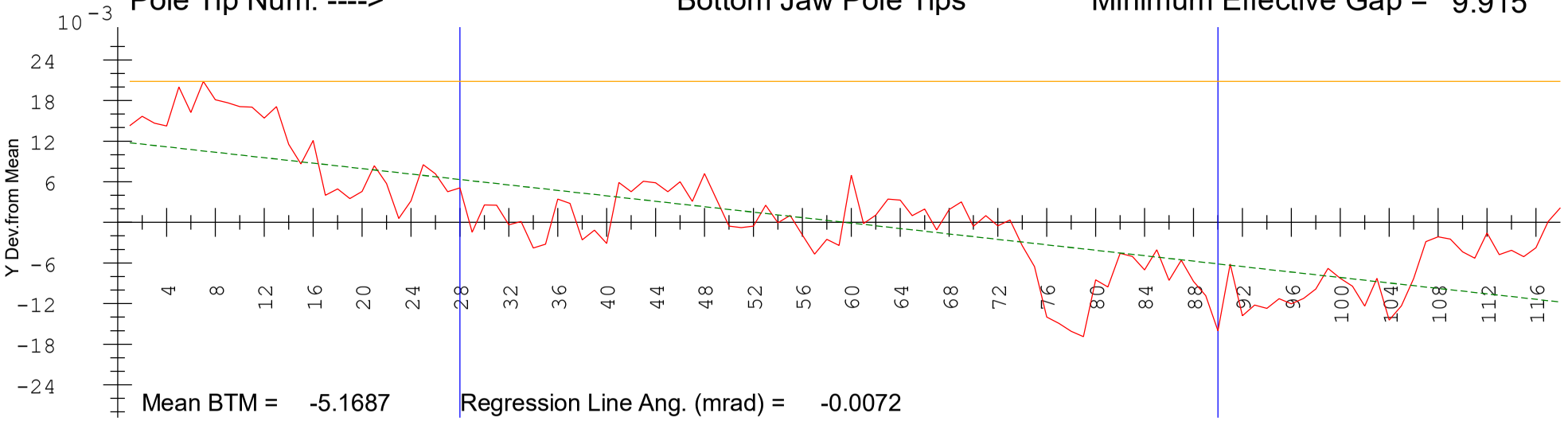


Pole Tip Num. ----> Bottom Jaw Pole Tips Minimum Effective Gap = 9.915



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

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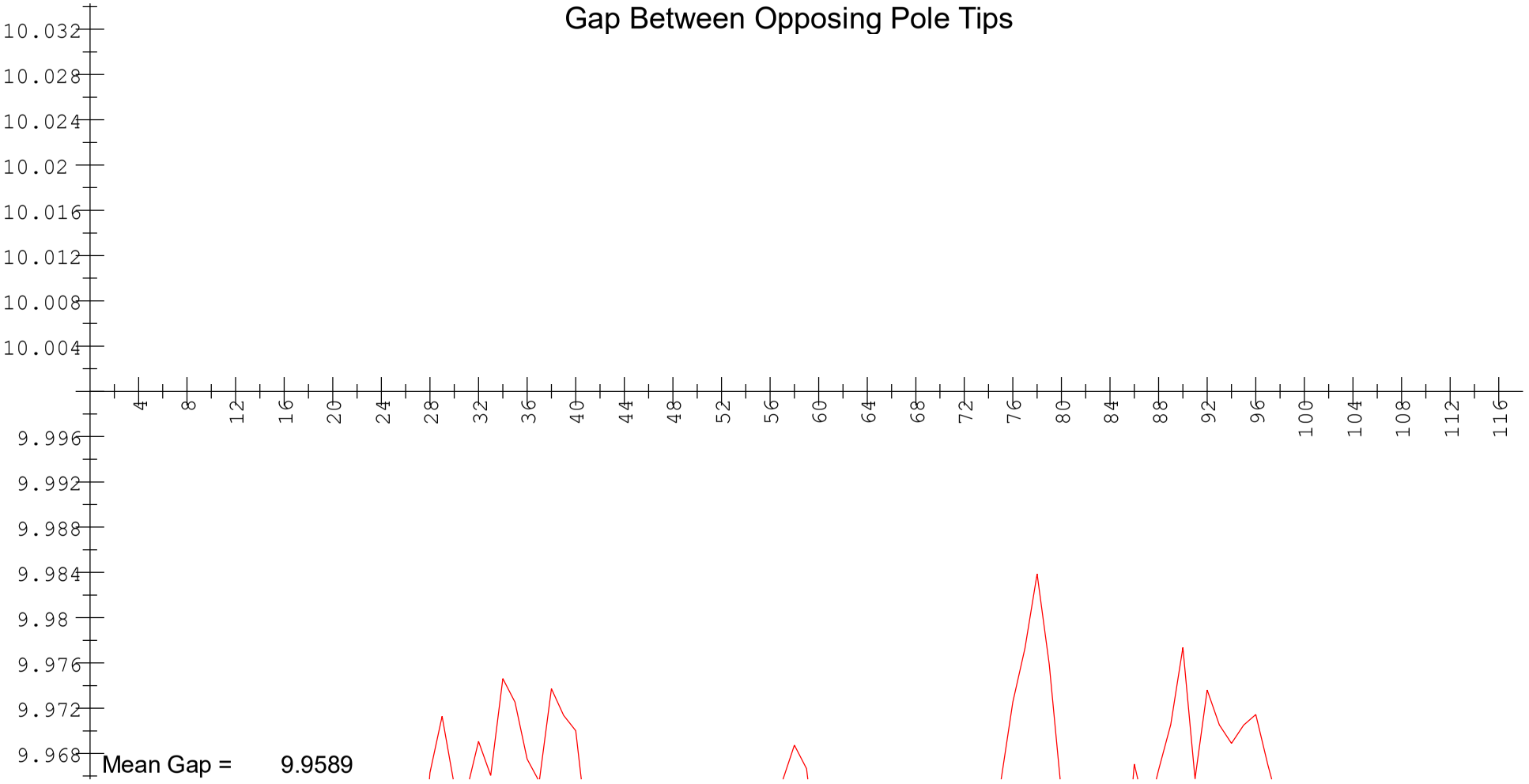
S/N = 027
D/S= 0001
Run= 1

Gap Between Opposing Pole Tips



Mean Gap = 9.9589

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

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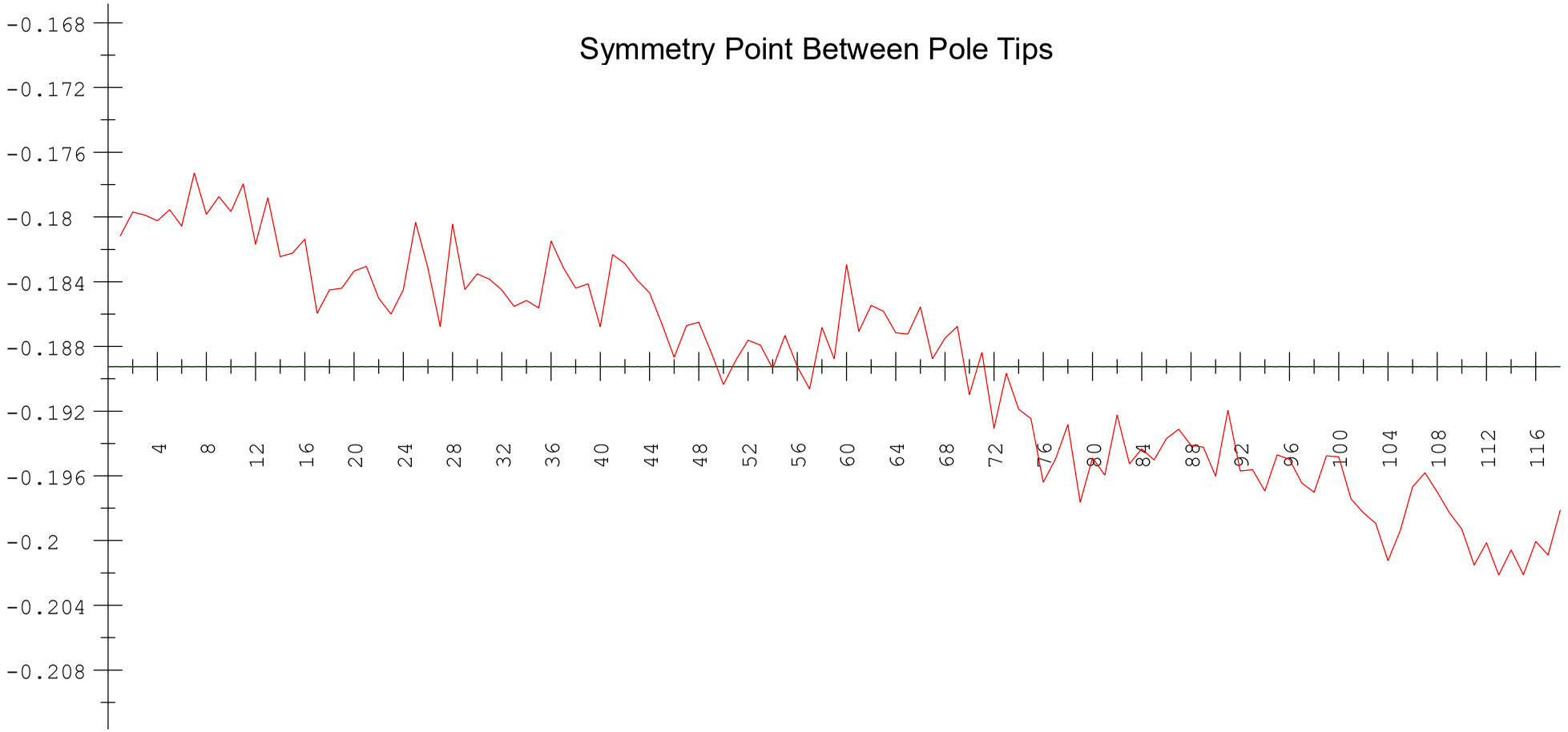
S/N = 027
D/S= 0001
Run= 1



Mean Symmetry Value = -0.1892

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

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S/N = 027
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	4.7999	4.7954	4.7851	4.7805
Bottom	-5.1569	-5.1623	-5.1748	-5.1804
Gap	9.9568			9.9609
Taper				0.0041

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
4.7902	-5.1687	9.9589	-0.1892

Additional Calculated Values

Bottom Pole #1 Z Value	978.897
Top Jaw Pitch (mrad)	-0.006
Bottom Jaw Pitch(mrad)	-0.007
Minimum Effective Gap	9.915
Reference Block Gap	6.799

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

14-OCT-2024
S/N = 027
D/S= 0001
Run= 1