Top Jaw Pole Tips

Y Dev.from Mean

Mean TOP = 4.9586   Regression Line Ang. (mrad) = -0.0008

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap = 9.809

Y Dev.from Mean

Mean BTM = -4.9562   Regression Line Ang. (mrad) = 0.0011

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

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

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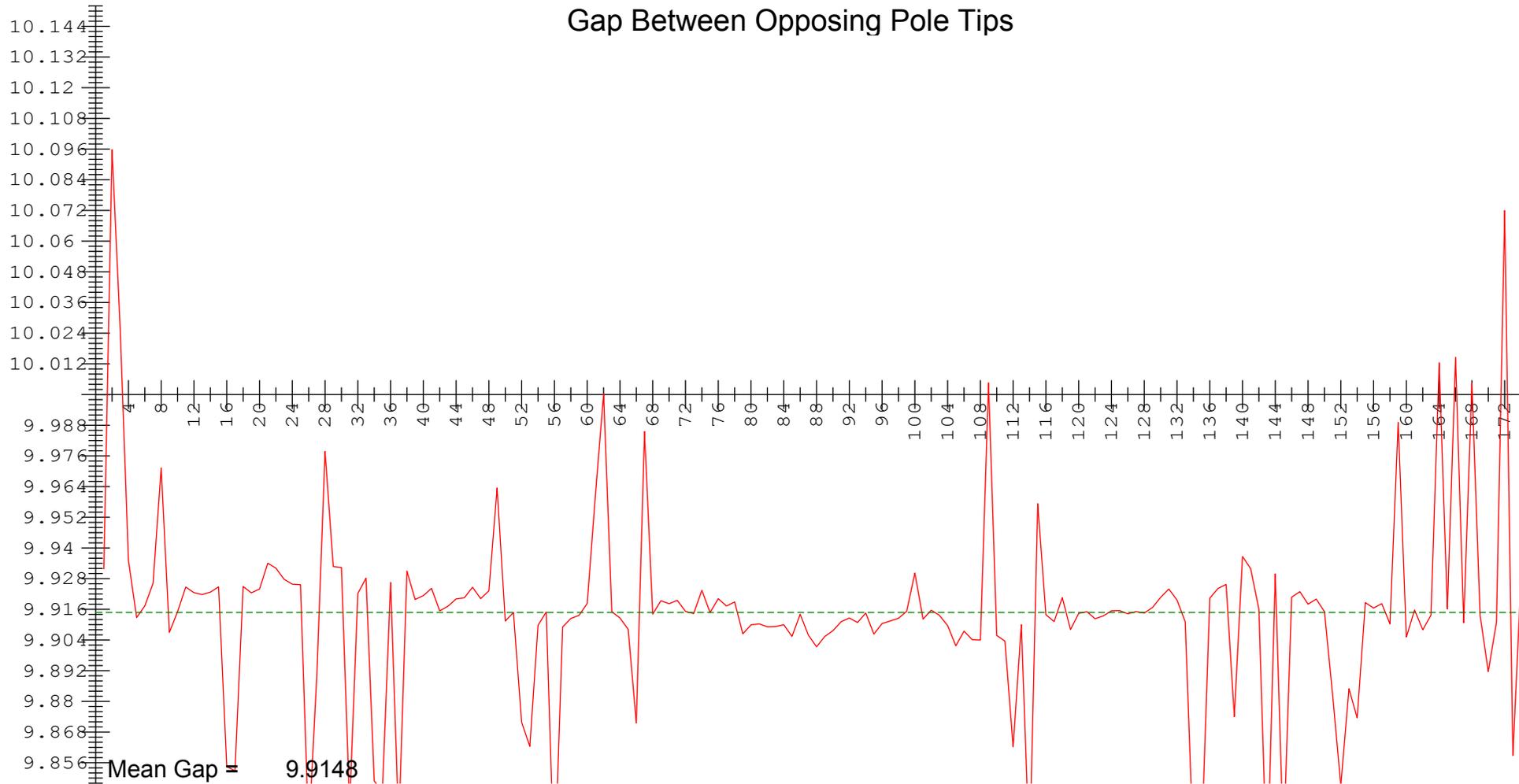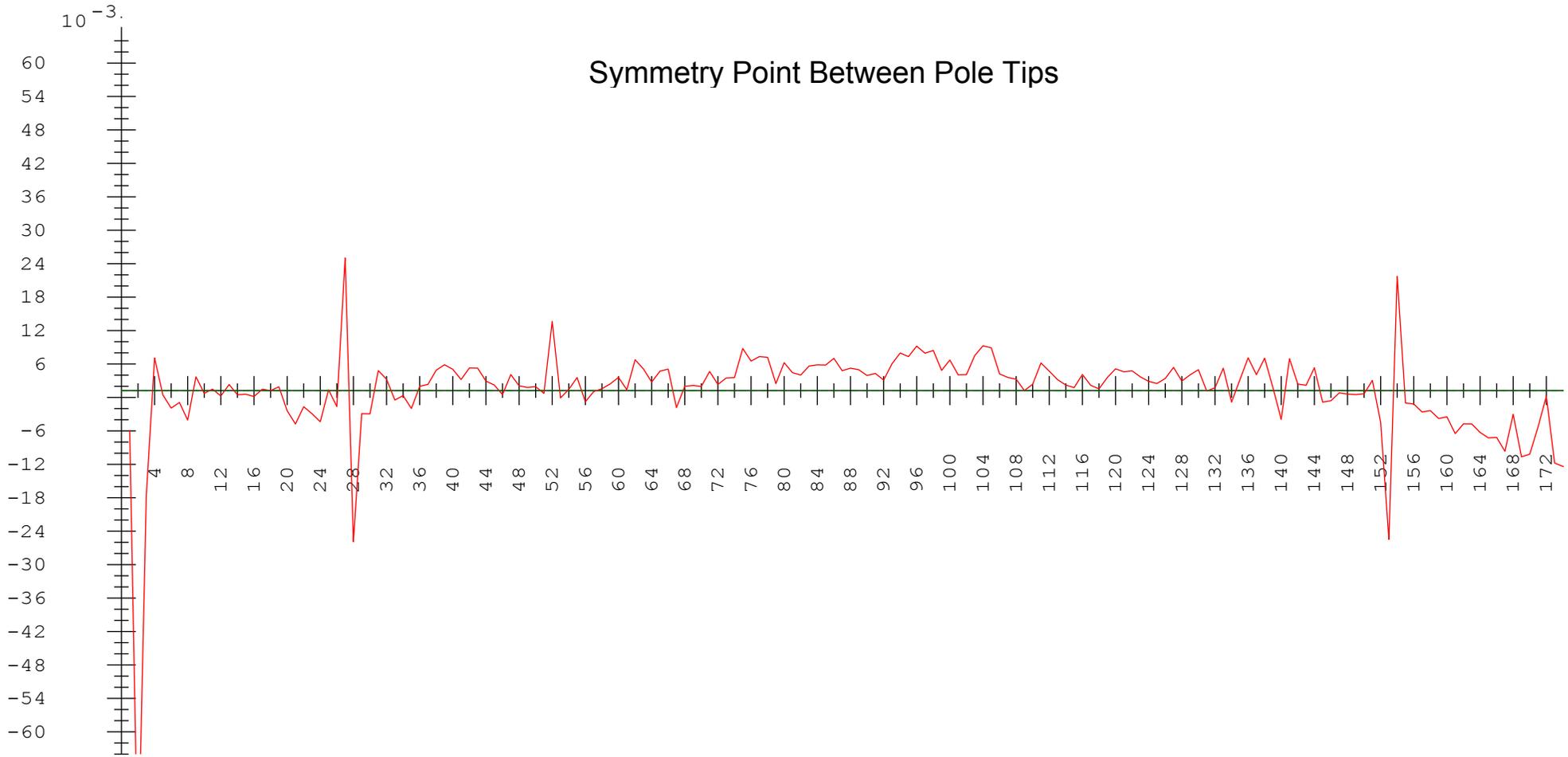**METROLOGY**

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 9.9998   US Encoder = 9.9998   DS Encoder = 9.9998

06-MAY-2019
S/N = 001
D/S= 0006
Run= 4

Gap Between Opposing Pole Tips

Mean Gap =   9.9148

Step Between Measured Pole Tips =   1

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.000

Gap Reading = 9.9998   US Encoder = 9.9998   DS Encoder = 9.9998

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METROLOGY

06-MAY-2019
S/N =   001
D/S=   0006
Run=   4

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0012

Step Between Measured Pole Tips =   1

Dimensions in mm

	LCLS II - SXR Undulator	06-MAY-2019

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 9.9998   US Encoder = 9.9998   DS Encoder = 9.9998

06-MAY-2019
S/N =   001
D/S=   0006
Run=   4

Top and Bottom Jaw
Regression Line Intersect Points

Jaw	First Pole (Pole 1)	US Actuator (Pole 39)	DS Actuator (Pole 135)	Last Pole (Pole 174)
Top	4.9599	4.9593	4.9579	4.9573
Bottom	-4.9580	-4.9572	-4.9551	-4.9543
Gap	9.9179			9.9117
Taper				-0.0062

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
4.9586	-4.9562	9.9148	0.0012

Additional Calculated Values

Bottom Pole #1 Z Value	980.047
Top Jaw Pitch (mrad)	-0.001
Bottom Jaw Pitch(mrad)	0.001
Minimum Effective Gap	9.809
Reference Block Gap	6.807

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 9.9998   US Encoder = 9.9998   DS Encoder = 9.9998

06-MAY-2019
S/N =   001
D/S=   0006
Run=   4