Top Jaw Pole Tips

Y Dev.from Mean

10^{-3}

Mean TOP = 12.5507   Regression Line Ang. (mrad) = 0.0010

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap = 24.942

Y Dev.from Mean

10^{-3}

Mean BTM = -12.4435   Regression Line Ang. (mrad) = 0.0002

Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips = 7

Regression Line Through Points =
Dimensions in mm

SLAC
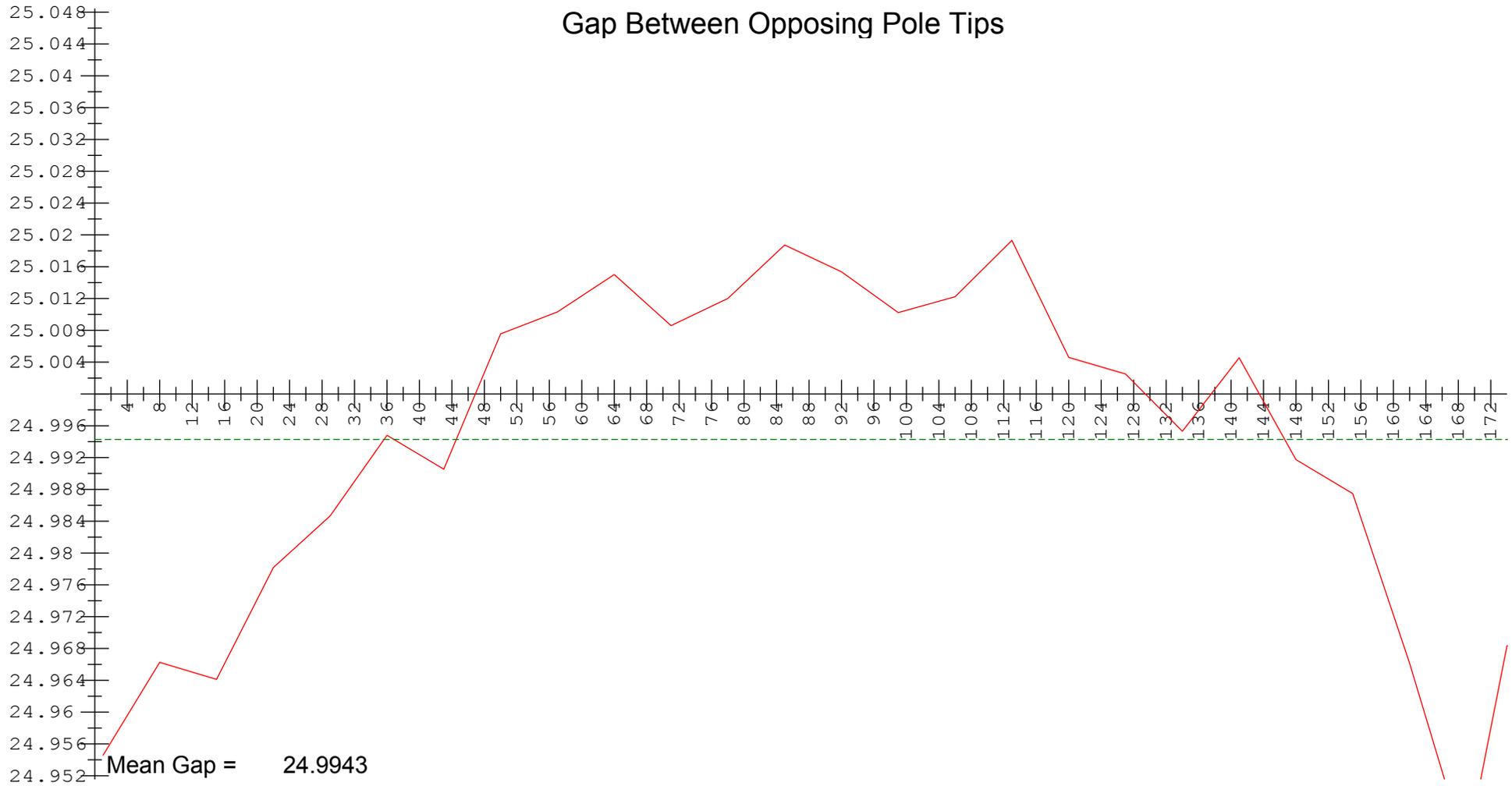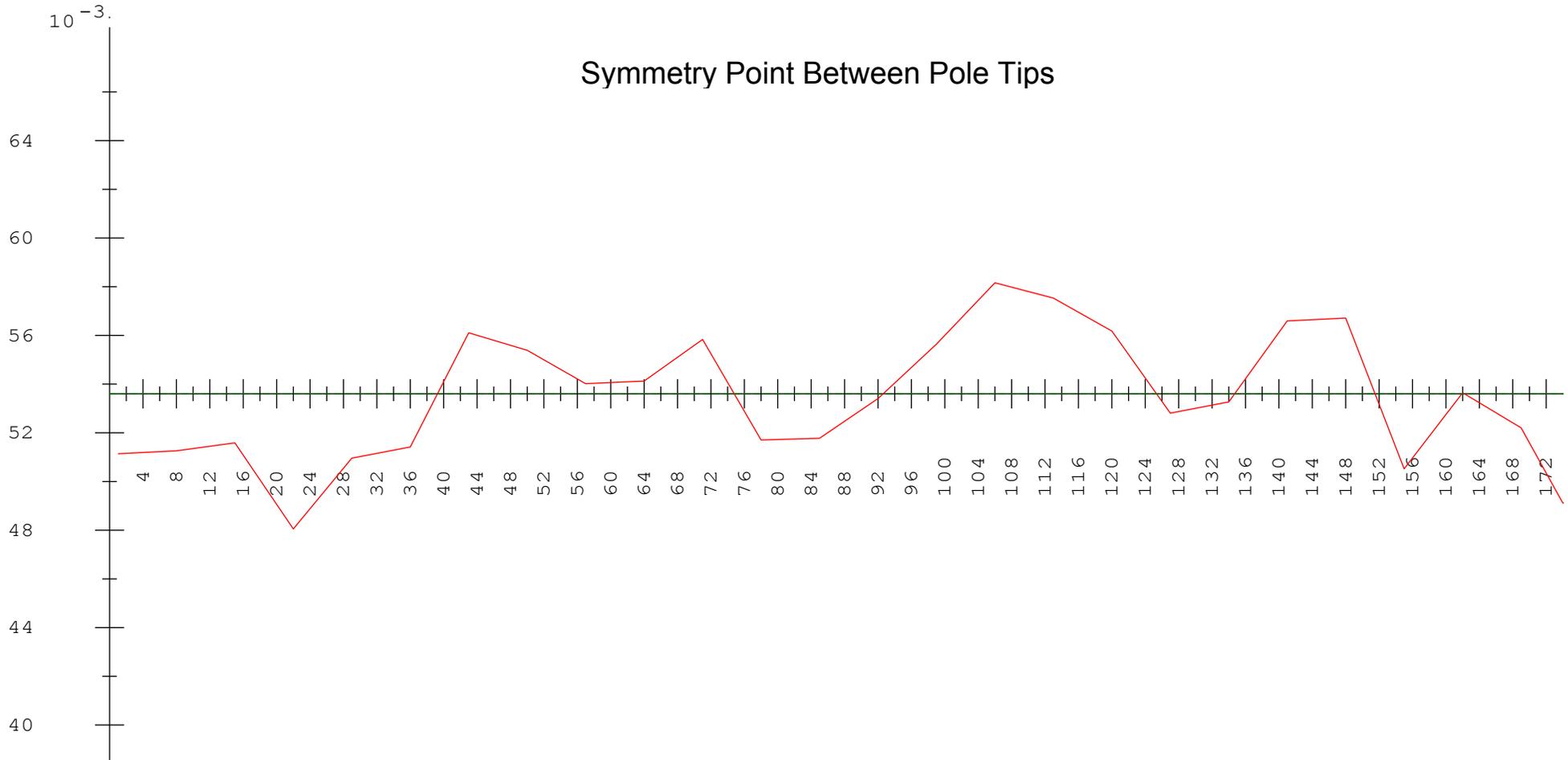NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 25   Nominal Taper = 0.000
Gap Reading = 25.0000   US Encoder = 25.0000   DS Encoder = 25.0000

11-FEB-2019
S/N = 020
D/S= 0001
Run= 12

Gap Between Opposing Pole Tips

Mean Gap =   24.9943

Step Between Measured Pole Tips =   7   Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 25   Nominal Taper = 0.000

Gap Reading = 25.0000   US Encoder = 25.0000   DS Encoder = 25.0000

SLAC

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METROLOGY

11-FEB-2019
S/N =   020
D/S=   0001
Run=   12

10^{-3}.

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0536

Step Between Measured Pole Tips =   7

Dimensions in mm

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	12.5484	12.5491	12.5510	12.5517
Bottom	-12.4436	-12.4435	-12.4430	-12.4428
Gap	24.9920			24.9945
Taper				0.0025

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
12.5507	-12.4435	24.9943	0.0536

Additional Calculated Values

Bottom Pole #1 Z Value	980.504
Top Jaw Pitch (mrad)	0.001
Bottom Jaw Pitch(mrad)	0.000
Minimum Effective Gap	24.942
Reference Block Gap	6.811

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 25   Nominal Taper = 0.000
Gap Reading = 25.0000   US Encoder = 25.0000   DS Encoder = 25.0000

11-FEB-2019
S/N = 020
D/S= 0001
Run= 12