Top Jaw Pole Tips

Y Dev. from Mean

Mean TOP =   5.2362   Regression Line Ang. (mrad) =   0.0032

Pole Tip Num. ---->   Bottom Jaw Pole Tips   Minimum Effective Gap =   9.931

Y Dev. from Mean

Mean BTM =   -4.7484   Regression Line Ang. (mrad) =   -0.0096

Y Value Scales Centered on Mean Values   Regression Line Through Points = ———————
Step Between Measured Pole Tips =   1   Dimensions in mm

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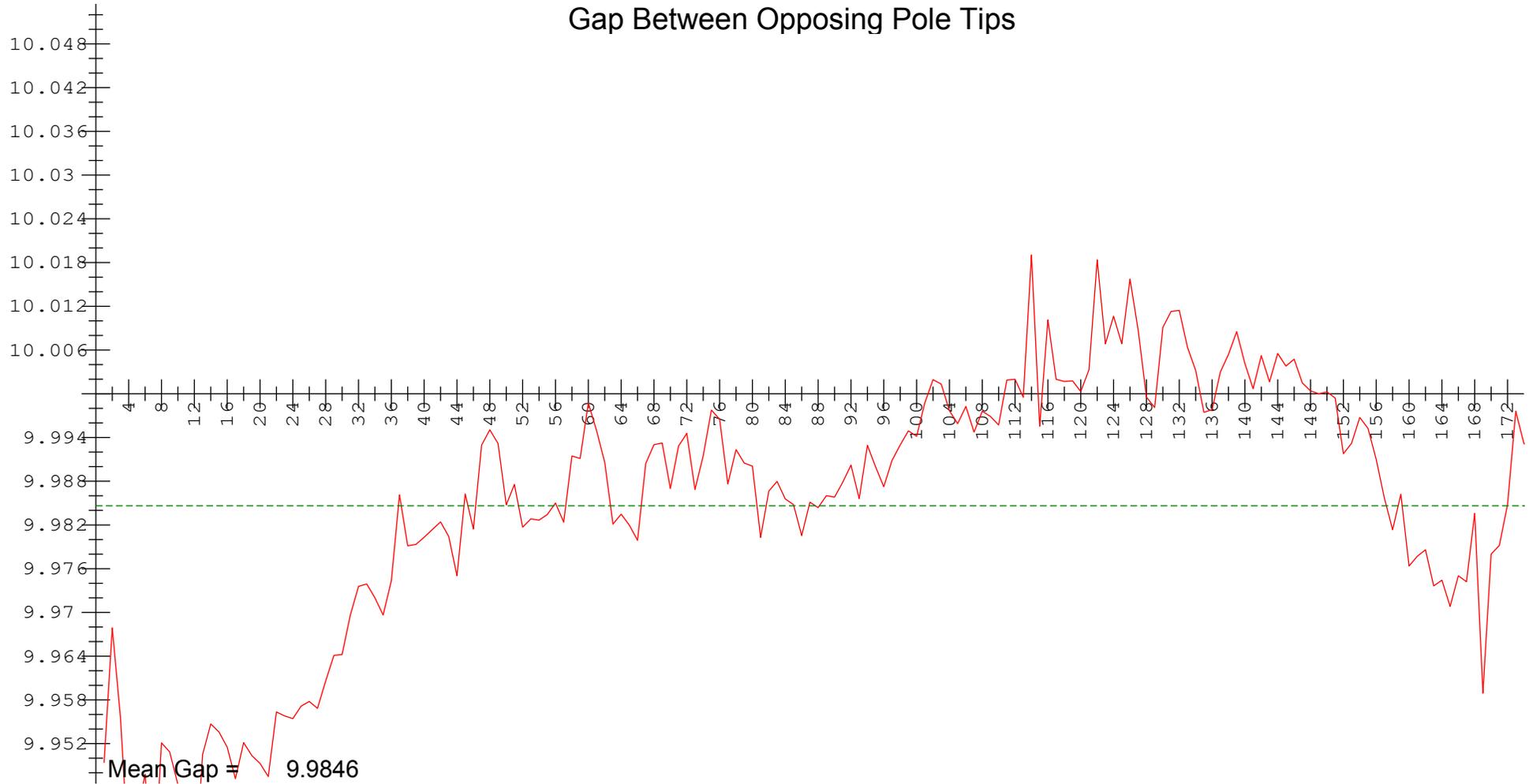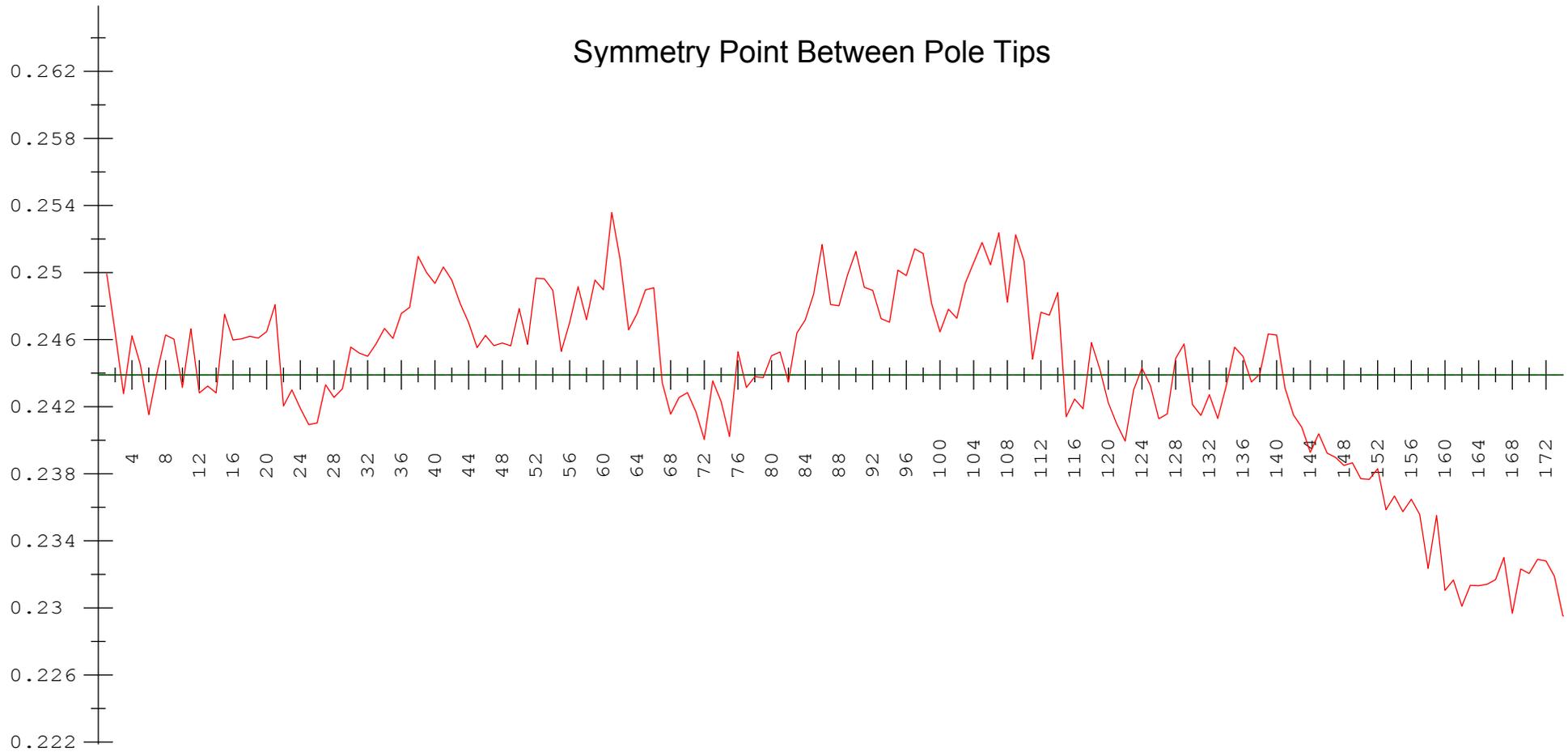**METROLOGY**

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 10.0000   US Encoder = 9.9999   DS Encoder = 10.0001

18-DEC-2018
S/N =   018
D/S=   0001
Run=   1

Gap Between Opposing Pole Tips

Mean Gap =   9.9846

Step Between Measured Pole Tips =   1

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.000

Gap Reading = 10.0000   US Encoder = 9.9999   DS Encoder = 10.0001

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METROLOGY

18-DEC-2018
S/N =   018
D/S=   0001
Run=   1

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.2439

Step Between Measured Pole Tips =   1

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.000

Gap Reading = 10.0000   US Encoder = 9.9999   DS Encoder = 10.0001

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18-DEC-2018
S/N =   018
D/S=   0001
Run=   1

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	5.2309	5.2332	5.2392	5.2416
Bottom	-4.7323	-4.7394	-4.7573	-4.7646
Gap	9.9632			10.0061
Taper				0.0430

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.2362	-4.7484	9.9846	0.2439

Additional Calculated Values

Bottom Pole #1 Z Value	980.178
Top Jaw Pitch (mrad)	0.003
Bottom Jaw Pitch(mrad)	-0.010
Minimum Effective Gap	9.931
Reference Block Gap	6.806

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 10.0000   US Encoder = 9.9999   DS Encoder = 10.0001

18-DEC-2018
S/N = 018
D/S = 0001
Run = 1