Top Jaw Pole Tips

Mean TOP =   5.0816   Regression Line Ang. (mrad) =   0.0446

Pole Tip Num. ---->   Bottom Jaw Pole Tips   Minimum Effective Gap =   9.954

Mean BTM =   -5.0836   Regression Line Ang. (mrad) =   -0.0479

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

LCLS II - SXR Undulator
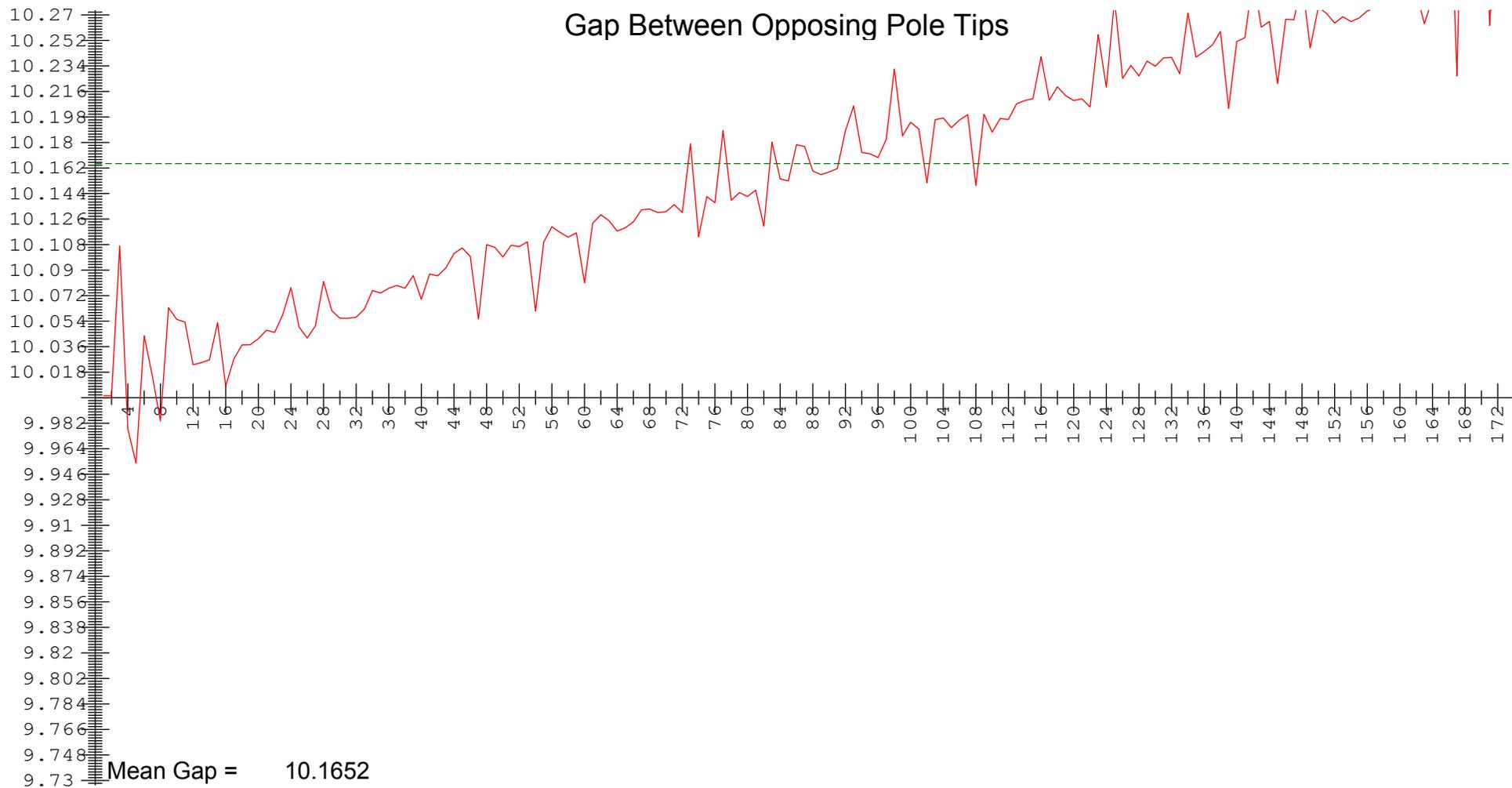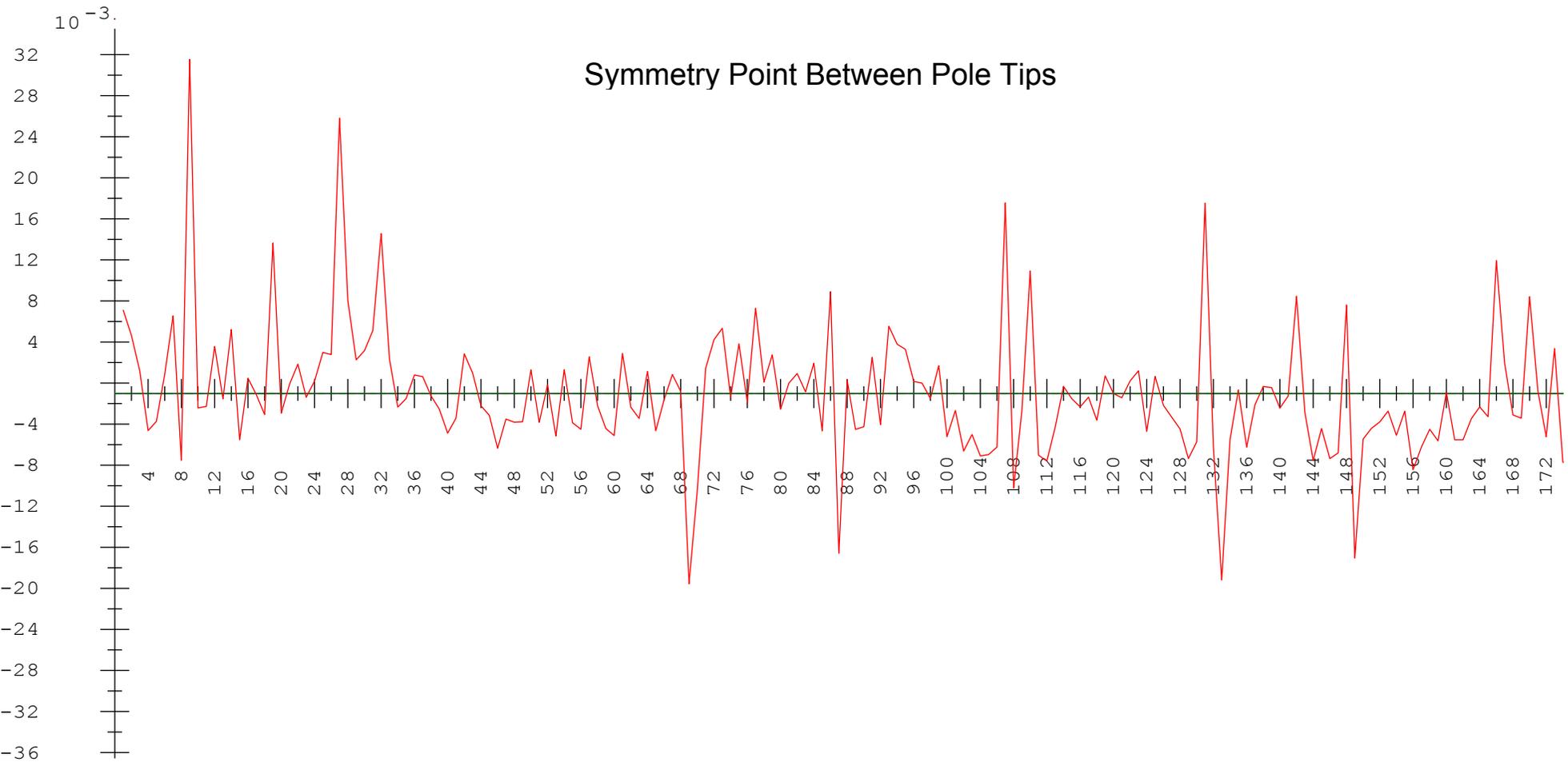Nominal Gap = 10   Nominal Taper = 0.300
Gap Reading = 10.1500   US Encoder = 10.0000   DS Encoder = 10.3000

02-AUG-2018
S/N =   013
D/S=   0001
Run=   20

Gap Between Opposing Pole Tips

Mean Gap =   10.1652

Step Between Measured Pole Tips =   1

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.300

Gap Reading = 10.1500   US Encoder = 10.0000   DS Encoder = 10.3000

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02-AUG-2018
S/N =   013
D/S=   0001
Run=   20

Symmetry Point Between Pole Tips

Mean Symmetry Value =   -0.0010

Step Between Measured Pole Tips =   1

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.300
Gap Reading = 10.1500   US Encoder = 10.0000   DS Encoder = 10.3000

02-AUG-2018
S/N =   013
D/S=   0001
Run=   20

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	5.0063	5.0394	5.1229	5.1568
Bottom	-5.0028	-5.0383	-5.1280	-5.1644
Gap	10.0091			10.3212
Taper				0.3121

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0816	-5.0836	10.1652	-0.0010

Additional Calculated Values

Bottom Pole #1 Z Value	979.747
Top Jaw Pitch (mrad)	0.045
Bottom Jaw Pitch(mrad)	-0.048
Minimum Effective Gap	9.954
Reference Block Gap	6.804

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.300
Gap Reading = 10.1500   US Encoder = 10.0000   DS Encoder = 10.3000

02-AUG-2018
S/N =   013
D/S=   0001
Run=   20