Top Jaw Pole Tips

Pole Tip Num. ---->

Mean TOP =   5.1820   Regression Line Ang. (mrad) =   0.0417

Minimum Effective Gap =   9.991

Bottom Jaw Pole Tips

Mean BTM =   -5.0078   Regression Line Ang. (mrad) =   -0.0496

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

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

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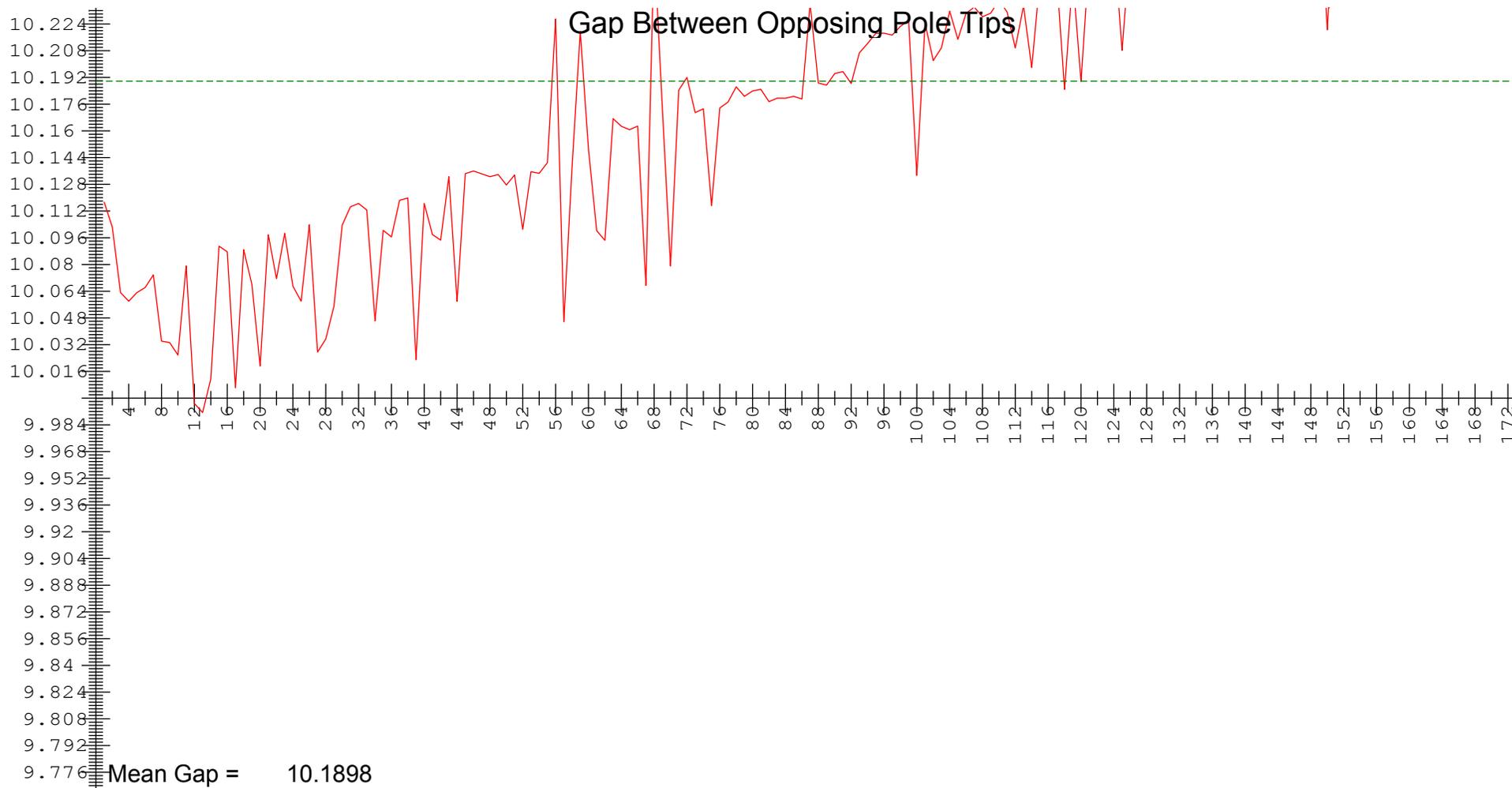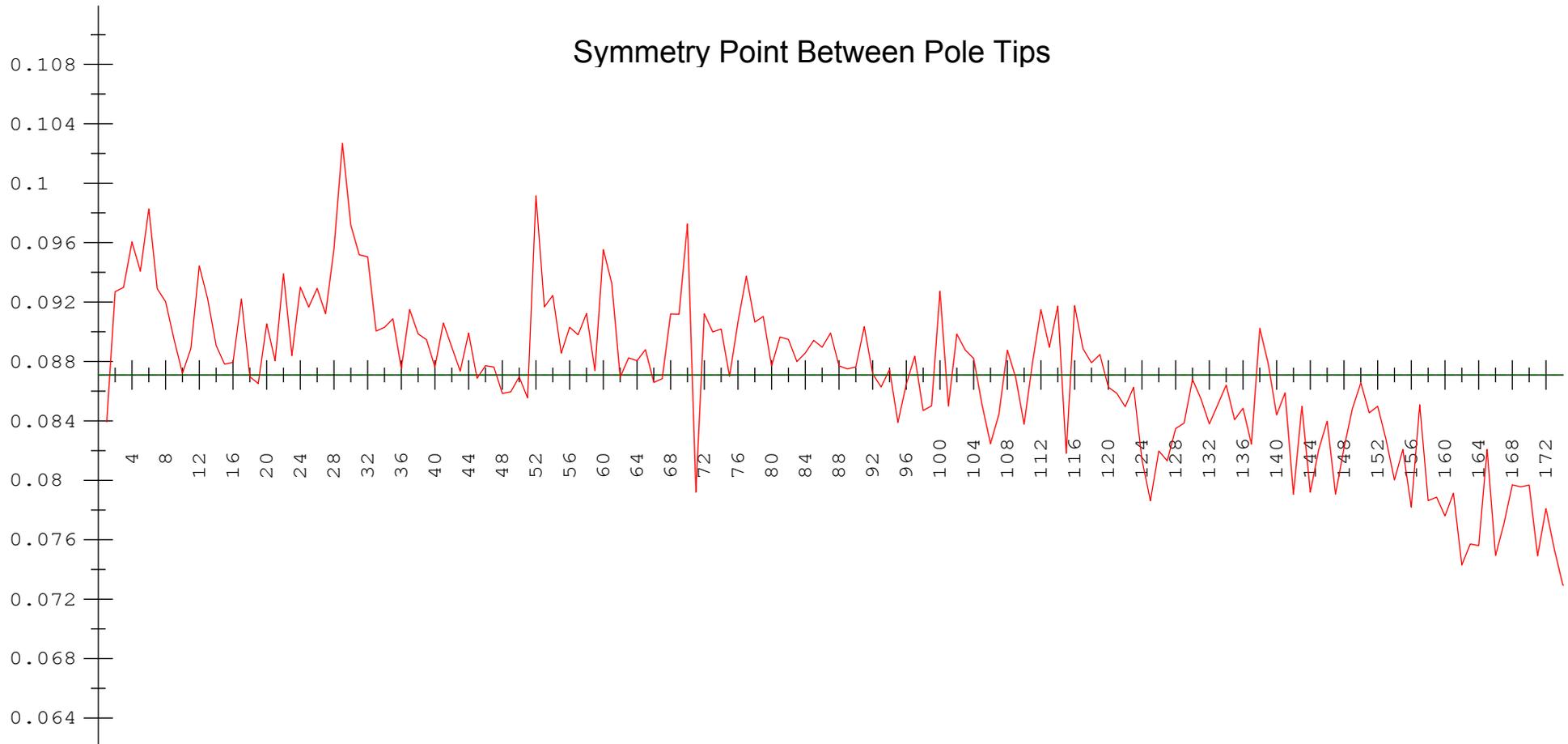
LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.3

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

12-APR-2018
S/N =   008
D/S=   0001
Run=   3

Gap Between Opposing Pole Tips

Mean Gap =   10.1898

Step Between Measured Pole Tips =   1

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.3

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

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METROLOGY

12-APR-2018
S/N =   008
D/S=   0001
Run=   3

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0871

Step Between Measured Pole Tips =   1

Dimensions in mm

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LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.3
Gap Reading = 10.1500   US Encoder = 10.0000   DS Encoder = 10.3000

12-APR-2018
S/N =   008
D/S=   0001
Run=   3

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	5.1116	5.1425	5.2207	5.2524
Bottom	-4.9241	-4.9609	-5.0538	-5.0915
Gap	10.0357			10.3439
Taper				0.3083

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.1820	-5.0078	10.1898	0.0871

Additional Calculated Values

Bottom Pole #1 Z Value	979.404
Top Jaw Pitch (mrad)	0.042
Bottom Jaw Pitch(mrad)	-0.050
Minimum Effective Gap	9.991
Reference Block Gap	6.807

Dimensions in mm

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LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.3
Gap Reading = 10.1500   US Encoder = 10.0000   DS Encoder = 10.3000

12-APR-2018
S/N =   008
D/S=   0001
Run=   3