Top Jaw Pole Tips

Mean TOP =   5.0798   Regression Line Ang. (mrad) =   0.0034

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap =   9.988

Mean BTM =   -4.9282   Regression Line Ang. (mrad) =   0.0022

Y Value Scales Centered on Mean Values

Regression Line Through Points = ——————

Step Between Measured Pole Tips =   5

Dimensions in mm

LCLS II - SXR Undulator

METROLOGY

NATIONAL ACCELERATOR LABORATORY

Nominal Gap = 10   Nominal Taper = 0.000

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

16-MAY-2018
S/N =   010
D/S=   0001
Run=   5

Gap Between Opposing Pole Tips

Mean Gap =   10.0080

Step Between Measured Pole Tips =   5

Dimensions in mm

SLAC
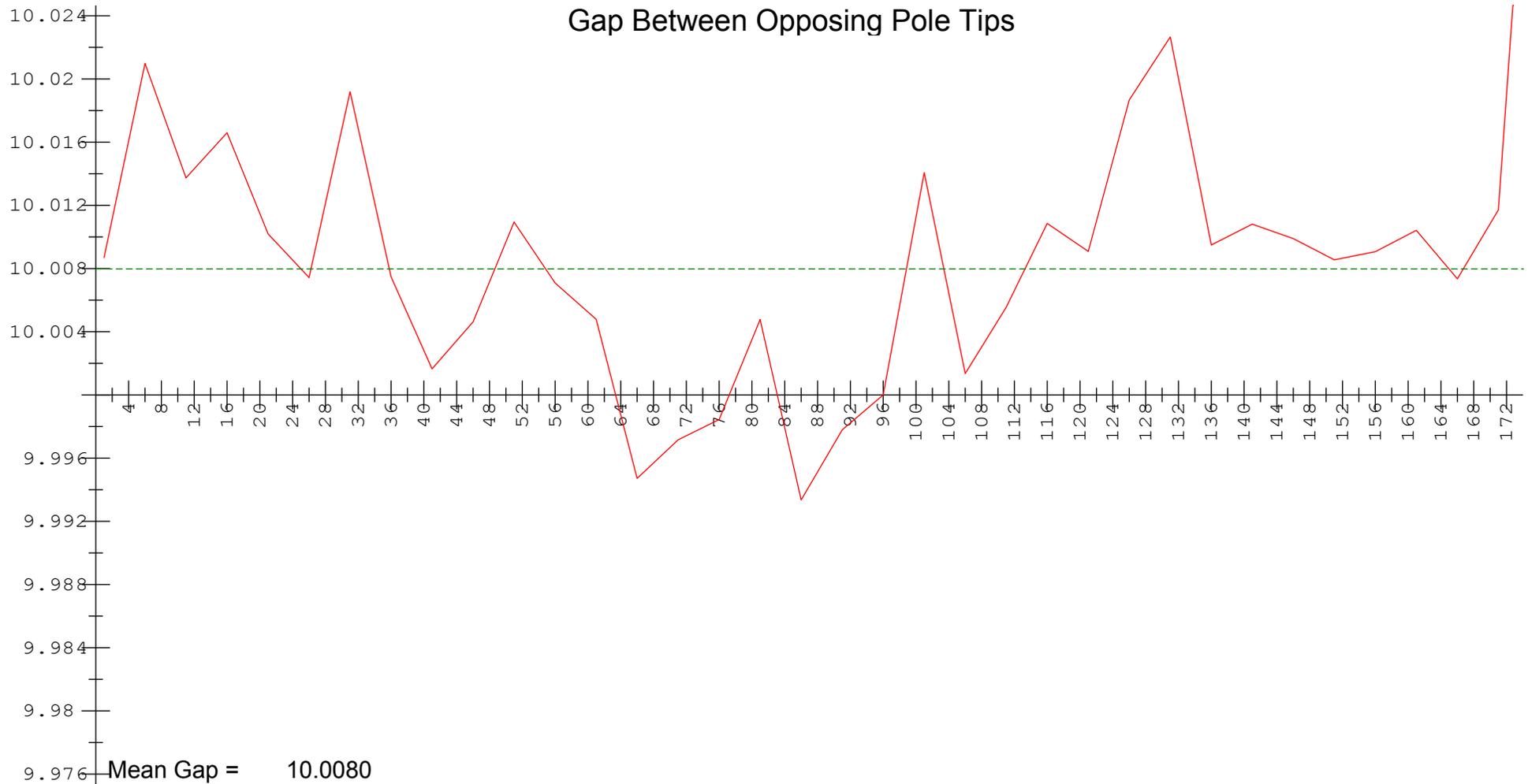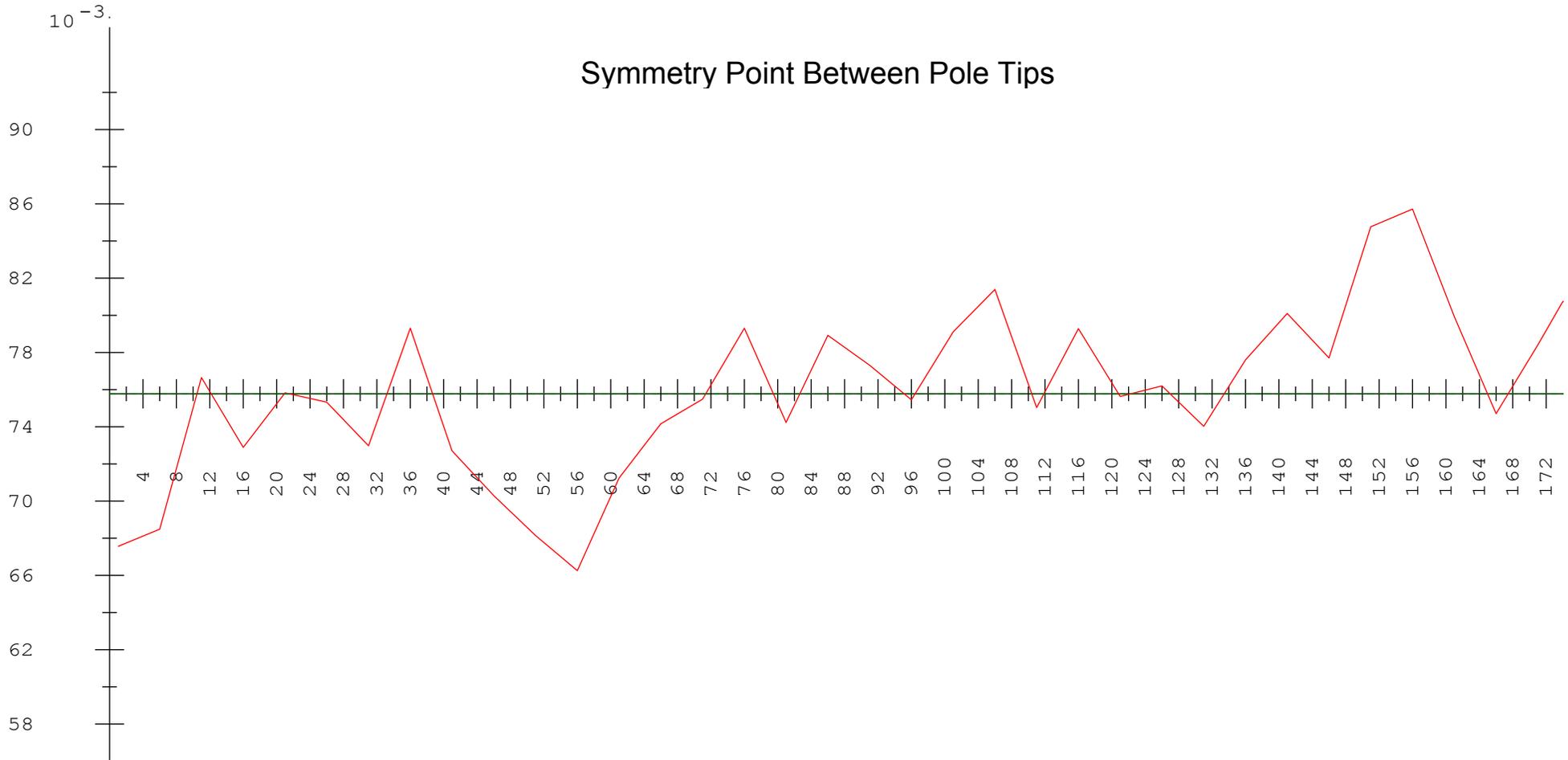NATIONAL ACCELERATOR LABORATORY
METROLOGY

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

16-MAY-2018
S/N =   010
D/S=   0001
Run=   5

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0758

Step Between Measured Pole Tips =   5

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.000

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

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METROLOGY

16-MAY-2018
S/N =   010
D/S=   0001
Run=   5

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	5.0745	5.0770	5.0833	5.0859
Bottom	-4.9322	-4.9305	-4.9264	-4.9248
Gap	10.0067			10.0106
Taper				0.0040

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0798	-4.9282	10.0080	0.0758

Additional Calculated Values

Bottom Pole #1 Z Value	979.704
Top Jaw Pitch (mrad)	0.003
Bottom Jaw Pitch(mrad)	0.002
Minimum Effective Gap	9.988
Reference Block Gap	6.802

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 = 10.0000   DS Encoder = 10.0001

16-MAY-2018
S/N = 010
D/S= 0001
Run= 5