LCLS II - SXR Undulator

Top Jaw Pole Tips

Y Dev.from Mean

10^{-3}

Mean TOP = 5.4143   Regression Line Ang. (mrad) = 0.0049

Bottom Jaw Pole Tips

Y Dev.from Mean

10^{-3}

Pole Tip Num. --->

Minimum Effective Gap = 9.934

Y Dev.from Mean

10^{-3}

Mean BTM = -4.5915   Regression Line Ang. (mrad) = 0.0013
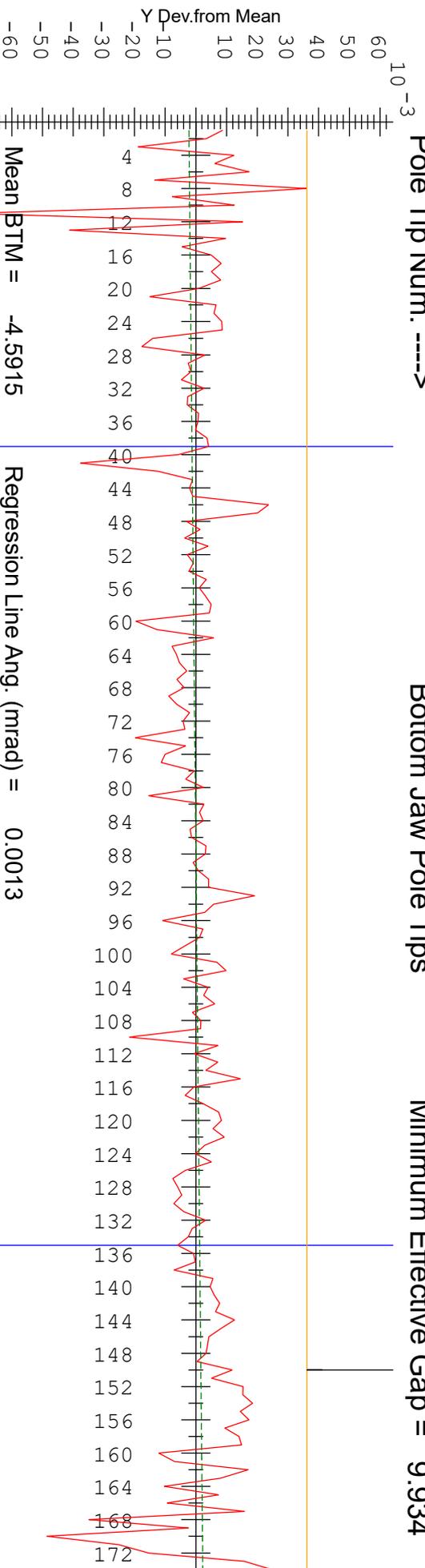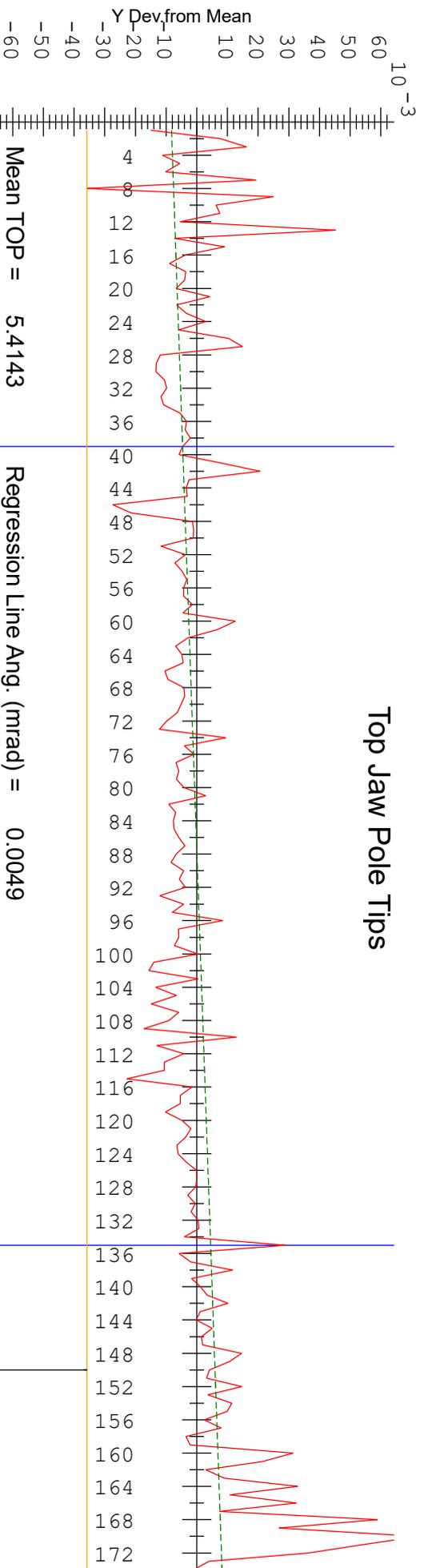
Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips = 1
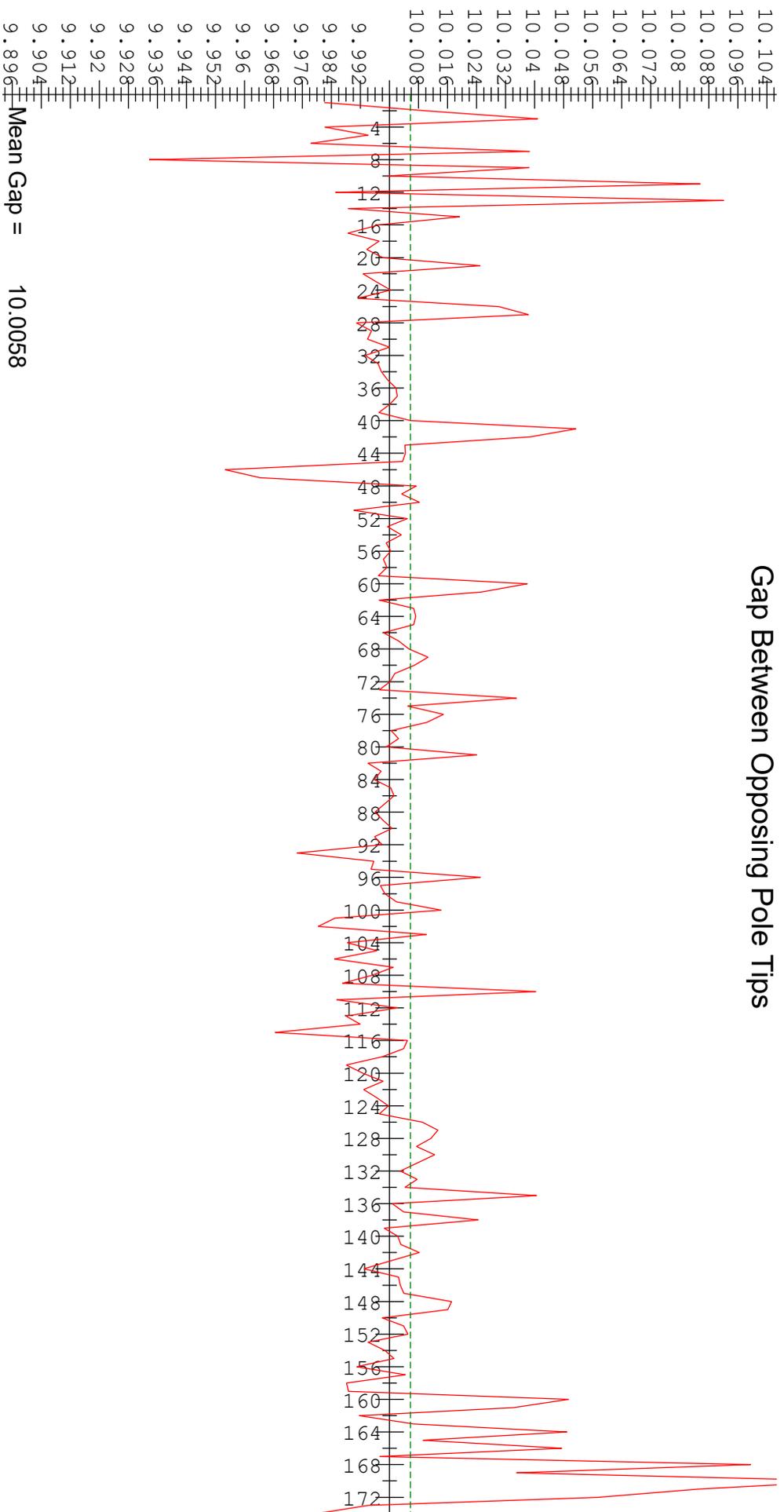
Regression Line Through Points = - - - - -
Dimensions in mm

METROLOGY

Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 9.9999

19-JUL-2021
S/N = 021
D/S = 0002
Run= 9

Gap Between Opposing Pole Tips

Step Between Measured Pole Tips = 1

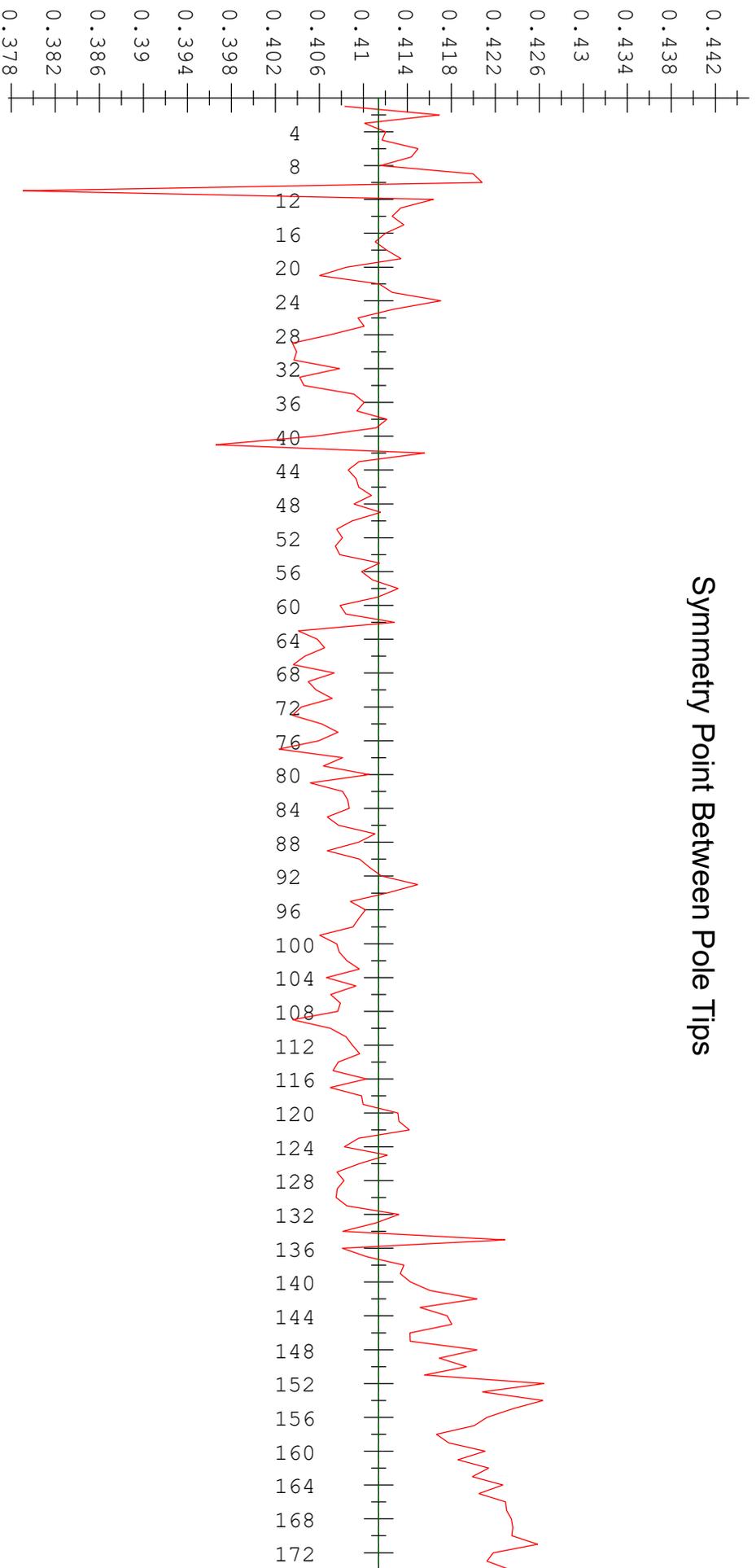Mean Gap = 10.0058

METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 10	Nominal Taper = 0.000	19-JUL-2021
Gap Reading = 10.0000	US Encoder = 10.0000	S/N = 021
		D/S= 0002
	DS Encoder = 9.9999	Run= 9

Dimensions in mm

Symmetry Point Between Pole Tips

Mean Symmetry Value = 0.4114

Step Between Measured Pole Tips = 1

METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.000

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

Dimensions in mm

19-JUL-2021
S/N = 021
D/S = 0002
Run= 9

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	5.4060	5.4096	5.4188	5.4225
Bottom	-4.5937	-4.5928	-4.5903	-4.5892
Gap	9.9998		10.0118	
Taper				0.0120

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.4143	-4.5915	10.0058	0.4114

Additional Calculated Values

Bottom Pole #1 Z Value	980.192
Top Jaw Pitch (mrad)	0.005
Bottom Jaw Pitch(mrad)	0.001
Minimum Effective Gap	9.934
Reference Block Gap	6.797

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.000

Nominal Gap = 10.0000

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

19-JUL-2021
S/N = 021
D/S = 0002
Run = 9

Dimensions in mm