LCLS II-HE - SXR Undulator

Top Jaw Pole Tips

Mean TOP = 5.0207   Regression Line Ang. (mrad) =   -0.0004

Bottom Jaw Pole Tips   **Minimum Effective Gap =   9.978**

Mean BTM =   -4.9838   Regression Line Ang. (mrad) =   0.0013

Pole Tip Num. ---->

Y Dev.from Mean

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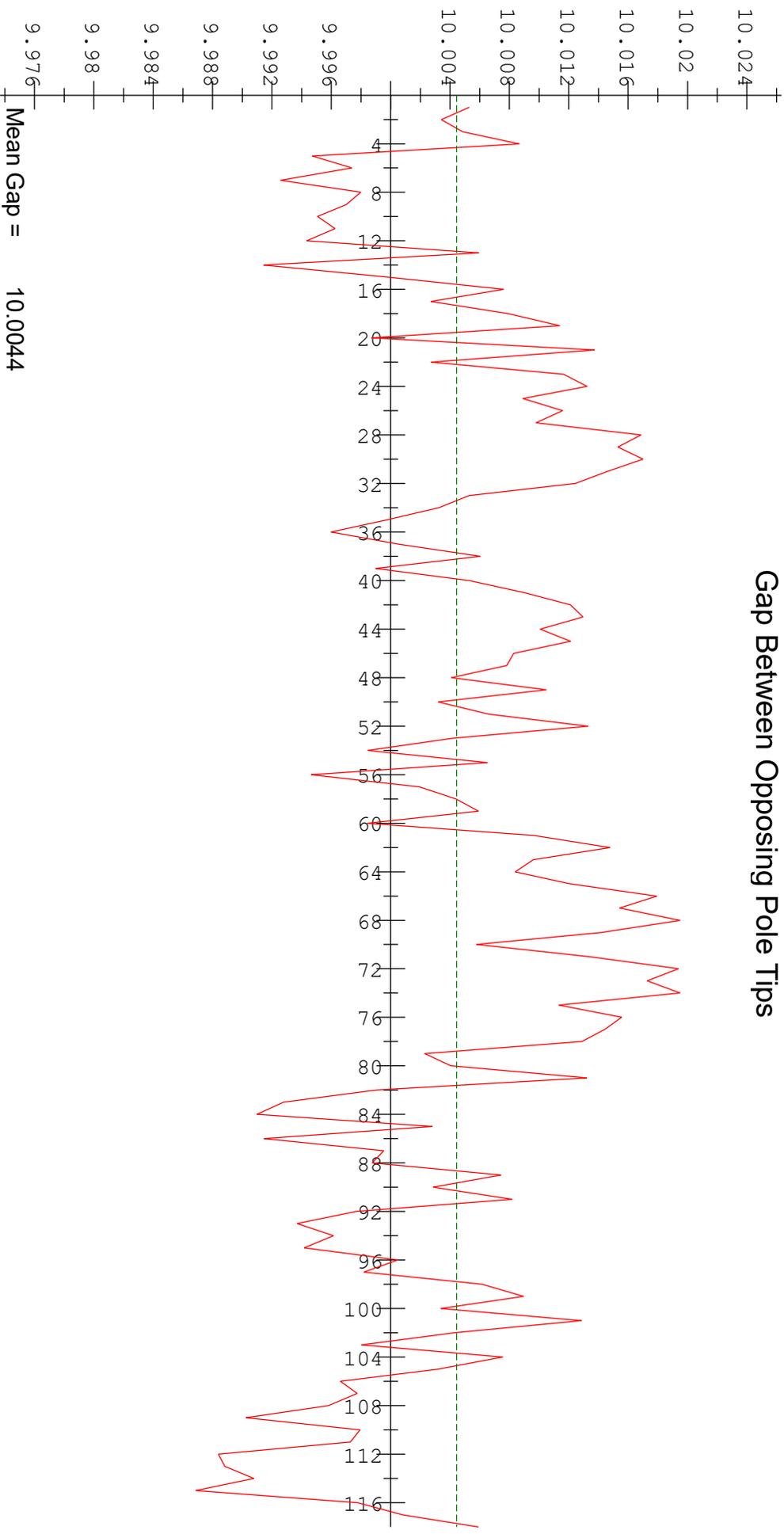
Regression Line Through Points =
Dimensions in mm

METROLOGY

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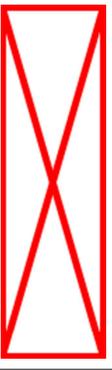Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0000

29-AUG-2022
S/N =   000
D/S=   0001
Run=   7

LCLS II-HE - SXR Undulator

Gap Between Opposing Pole Tips

METROLOGY

Step Between Measured Pole Tips =   1

Mean Gap =   10.0044

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

Dimensions in mm

29-AUG-2022
S/N =   000
D/S=   0001
Run=   7

Symmetry Point Between Pole Tips

10^{-3}

Mean Symmetry Value = 0.0184
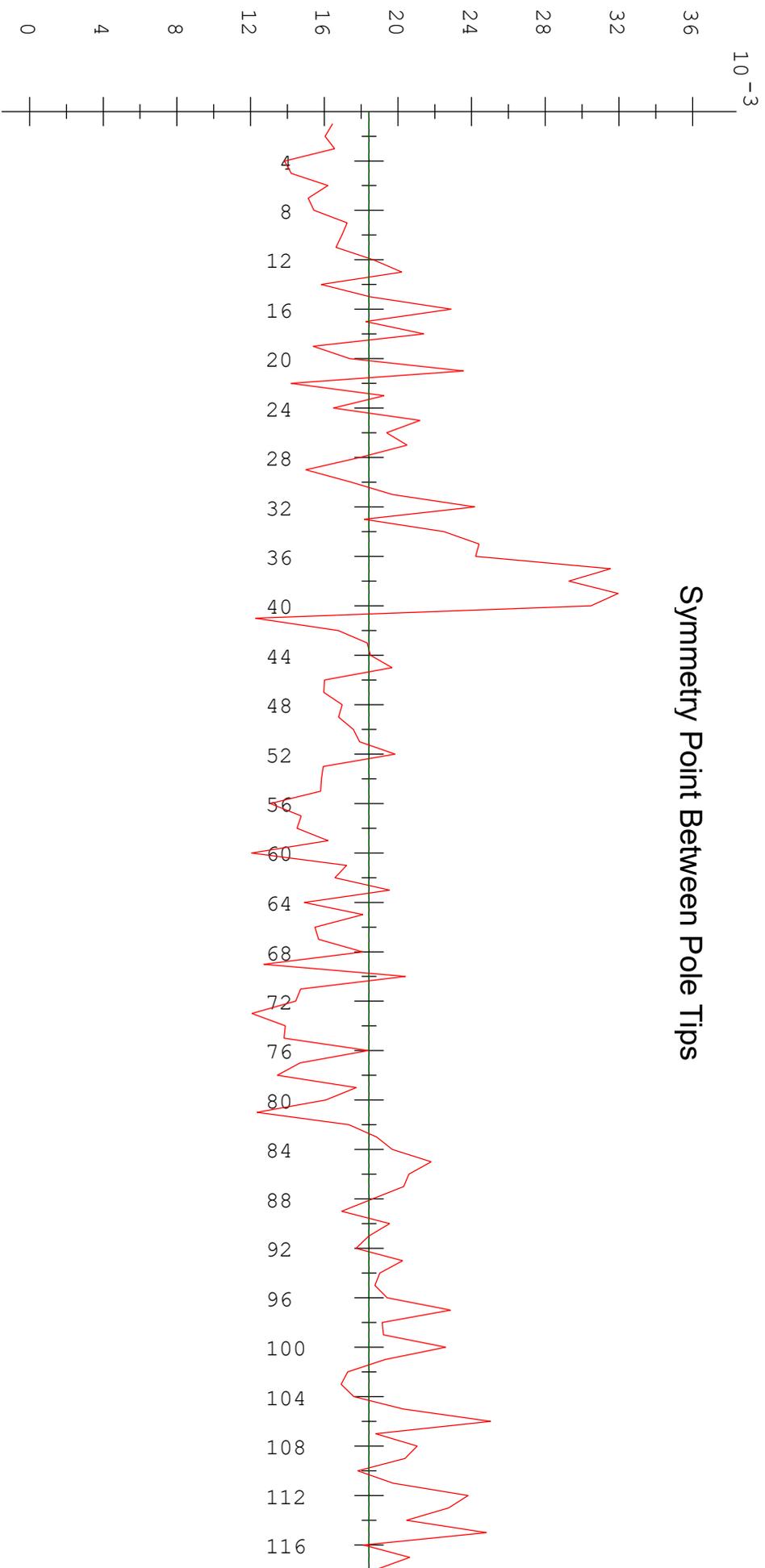
Step Between Measured Pole Tips = 1

METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.000

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

Dimensions in mm

29-AUG-2022
S/N = 000
D/S = 0001
Run = 7

Top and Bottom Jaw
Regression Line Intersect Points

Jaw	First Pole (Pole 1)	US Actuator (Pole 28)	DS Actuator (Pole 90)	Last Pole (Pole 118)
Top	5.0213	5.0210	5.0203	5.0200
Bottom	-4.9859	-4.9849	-4.9827	-4.9817
Gap	10.0072		10.0017	
Taper				-0.0055

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0207	-4.9838	10.0044	0.0184

Additional Calculated Values

Bottom Pole #1 Z Value	974.854
Top Jaw Pitch (mrad)	0.000
Bottom Jaw Pitch(mrad)	0.001
Minimum Effective Gap	9.978
Reference Block Gap	6.801

LCLS II-HE - SXR Undulator

Nominal Gap = 10   **Nominal Taper = 0.000**

Nominal Gap = 10.0000

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

METROLOGY

29-AUG-2022
S/N =   000
D/S=   0001
Run=   7

Dimensions in mm