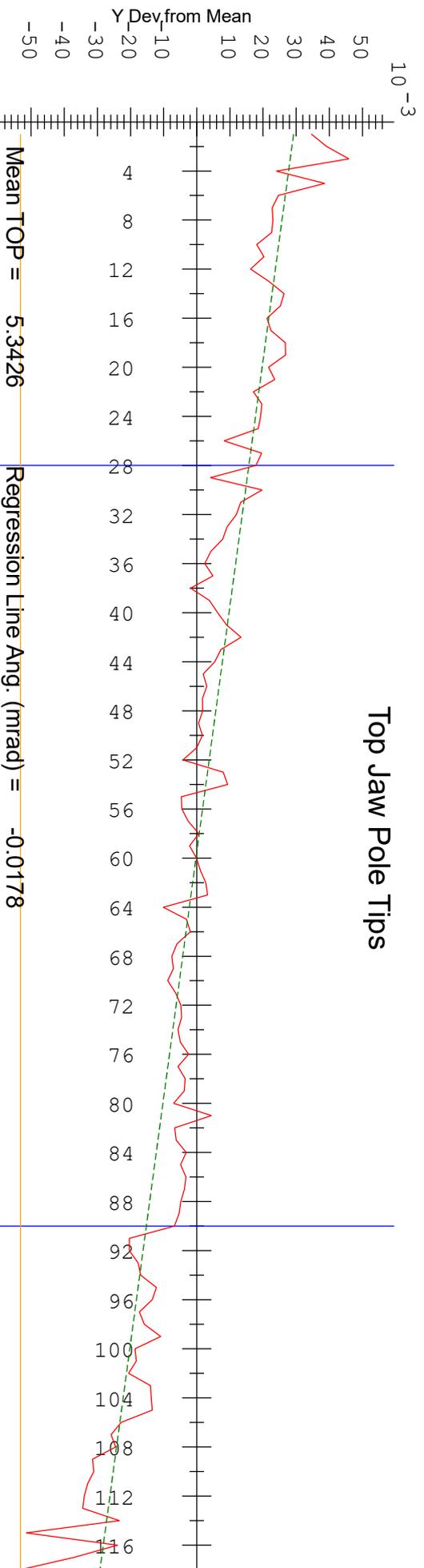
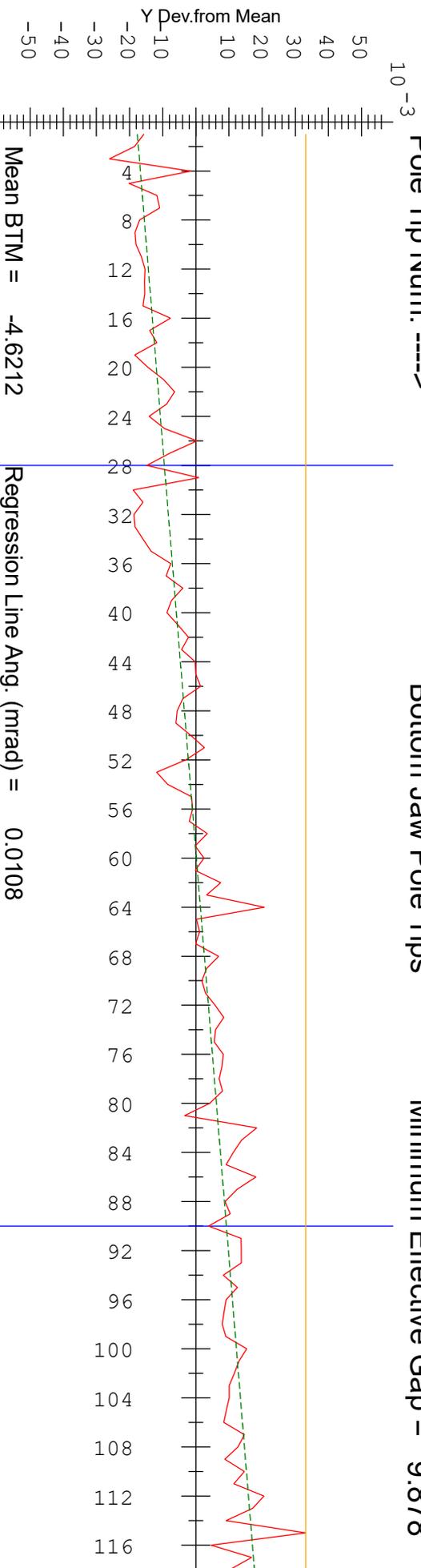


Top Jaw Pole Tips



Pole Tip Num. ---->



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

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



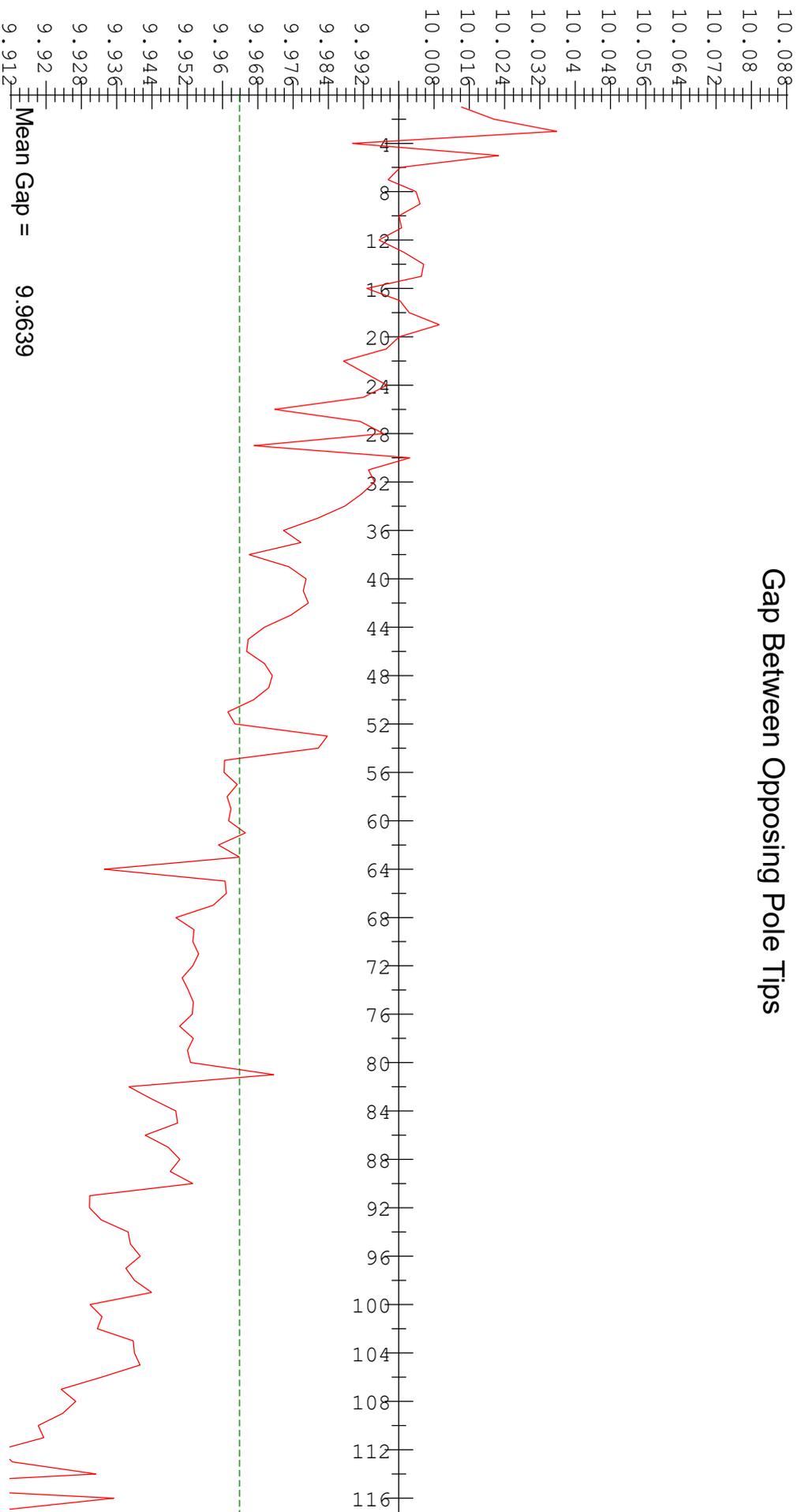
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = -0.100
Gap Reading = 10.1509 US Encoder = 10.0014 DS Encoder = 10.3004

29-MAY-2025
S/N = 021
D/S = 0001
Run = 5

Gap Between Opposing Pole Tips



Step Between Measured Pole Tips = 1

Dimensions in mm



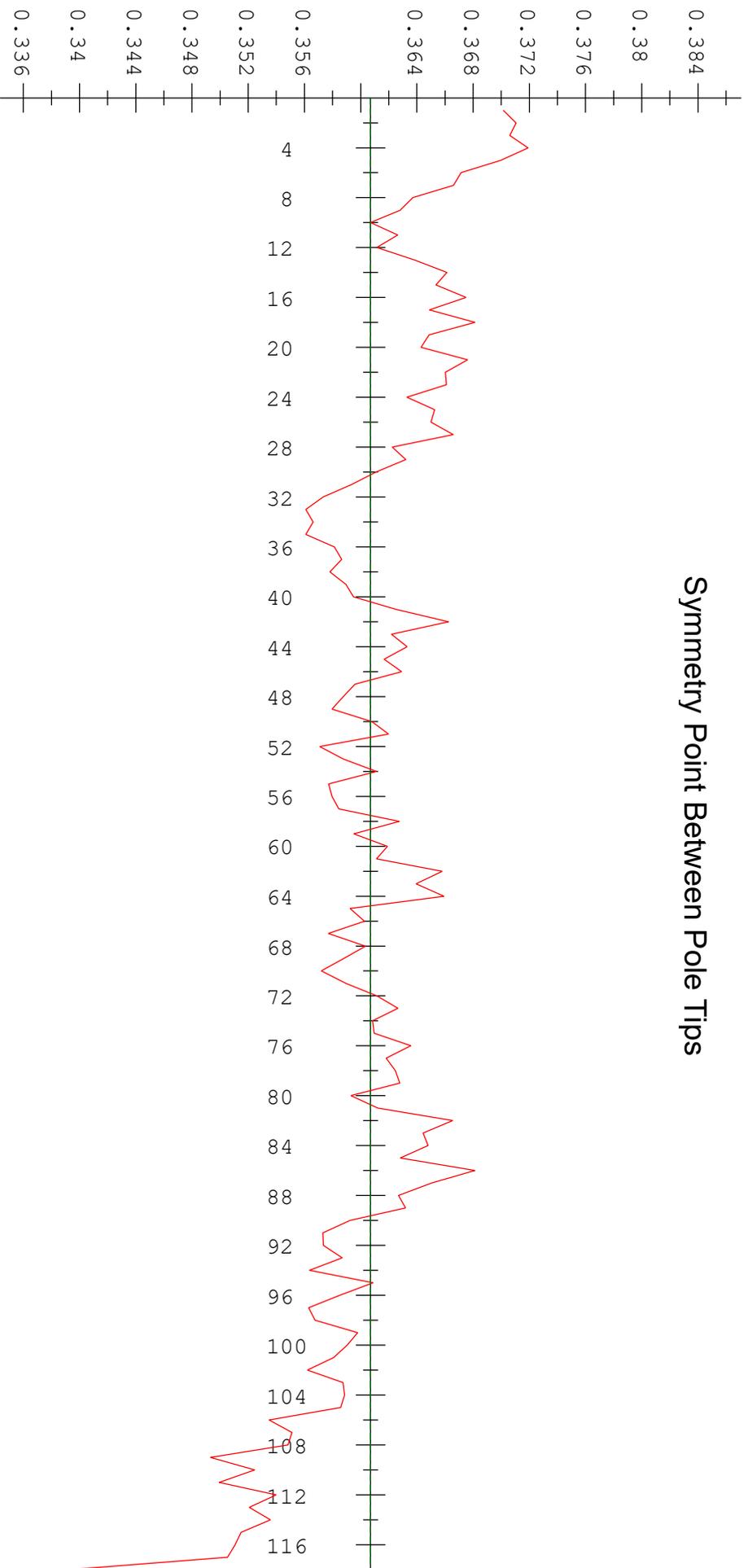
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = -0.100
Gap Reading = 10.1509 US Encoder = 10.0014 DS Encoder = 10.3004

29-MAY-2025
S/N = 021
D/S = 0001
Run = 5

Symmetry Point Between Pole Tips



Mean Symmetry Value = 0.3607

Step Between Measured Pole Tips = 1

Dimensions in mm



METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = -0.100
Gap Reading = 10.1509 US Encoder = 10.0014 DS Encoder = 10.3004

29-MAY-2025
S/N = 021
D/S = 0001
Run = 5

Top and Bottom Jaw Regression Line Intersect Points

Jaw	First Pole <i>(Pole -1)</i>	US Actuator <i>(Pole 28)</i>	DS Actuator <i>(Pole 90)</i>	Last Pole <i>(Pole 118)</i>
Top	5.3719	5.3584	5.3274	5.3134
Bottom	-4.6389	-4.6308	-4.6120	-4.6036
Gap	10.0108			9.9170
Taper				-0.0938

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.3426	-4.6212	9.9639	0.3607

Additional Calculated Values

Bottom Pole #1 Z Value	978.747
Top Jaw Pitch (mrad)	-0.018
Bottom Jaw Pitch(mrad)	0.011
Minimum Effective Gap	9.878
Reference Block Gap	6.792

Dimensions in mm



METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = -0.100
 Gap Reading = 10.1509 US Encoder = 10.0014 DS Encoder = 10.3004

29-MAY-2025
 S/N = 021
 D/S = 0001
 Run = 5