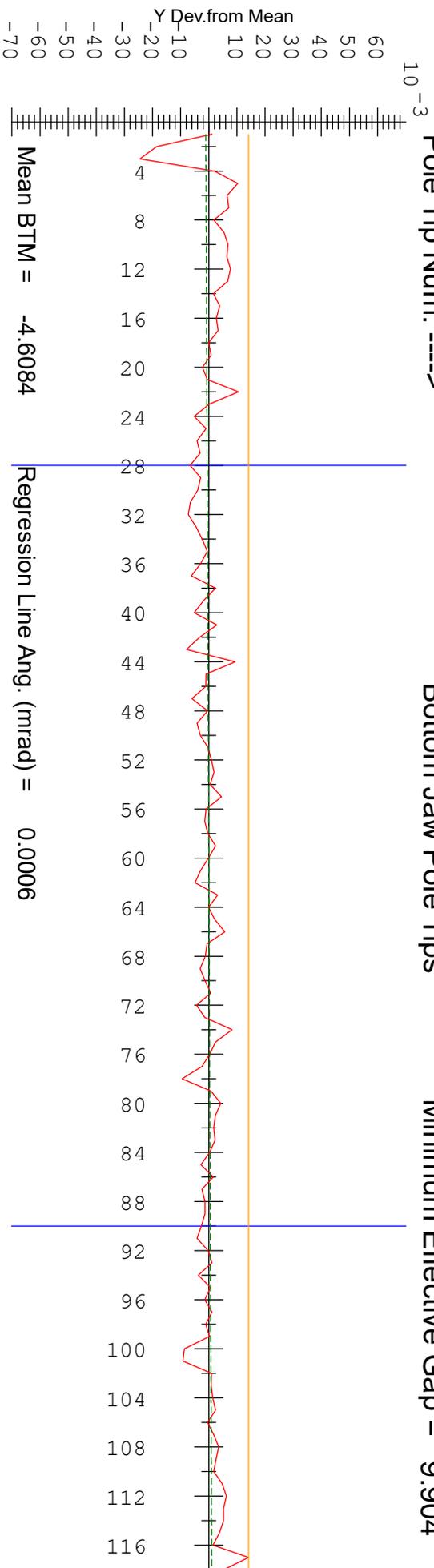
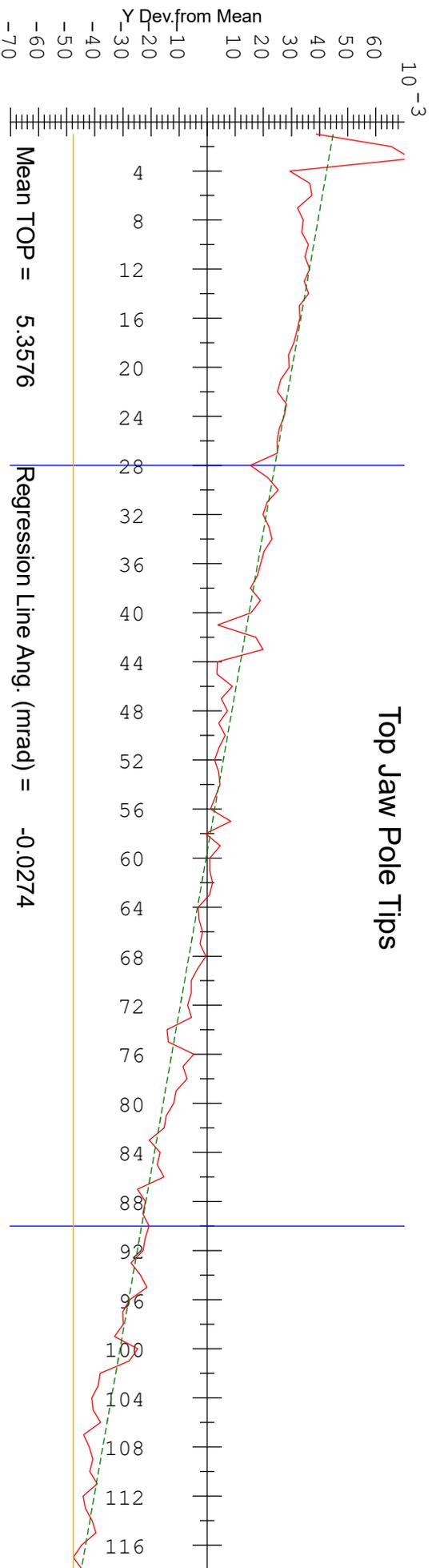


Top Jaw Pole Tips



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

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



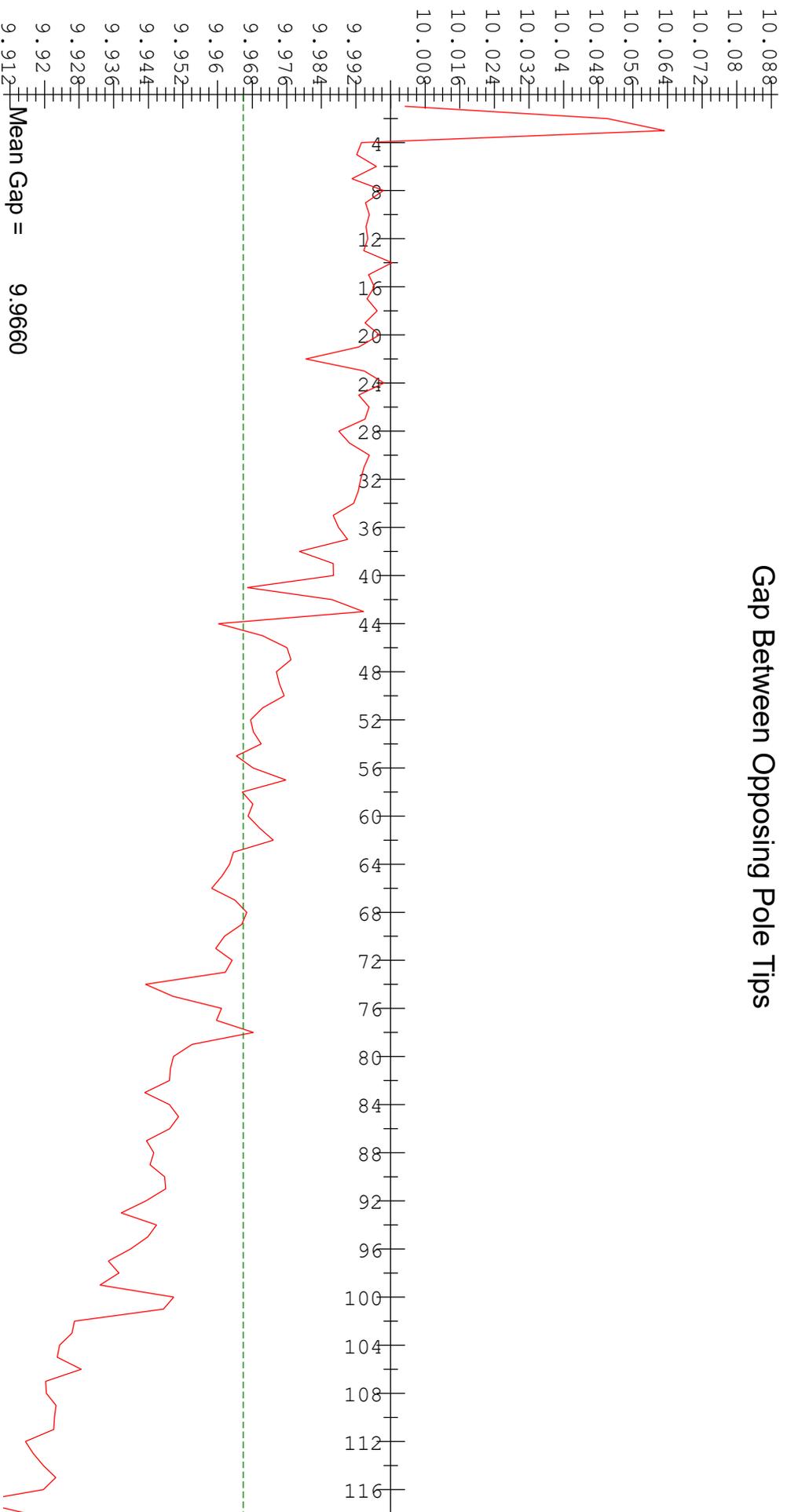
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = -0.100
Gap Reading = 9.9500 US Encoder = 10.0000 DS Encoder = 9.9000

03-APR-2025
S/N = 030
D/S = 0001
Run = 5

Gap Between Opposing Pole Tips



Step Between Measured Pole Tips = 1

Dimensions in mm



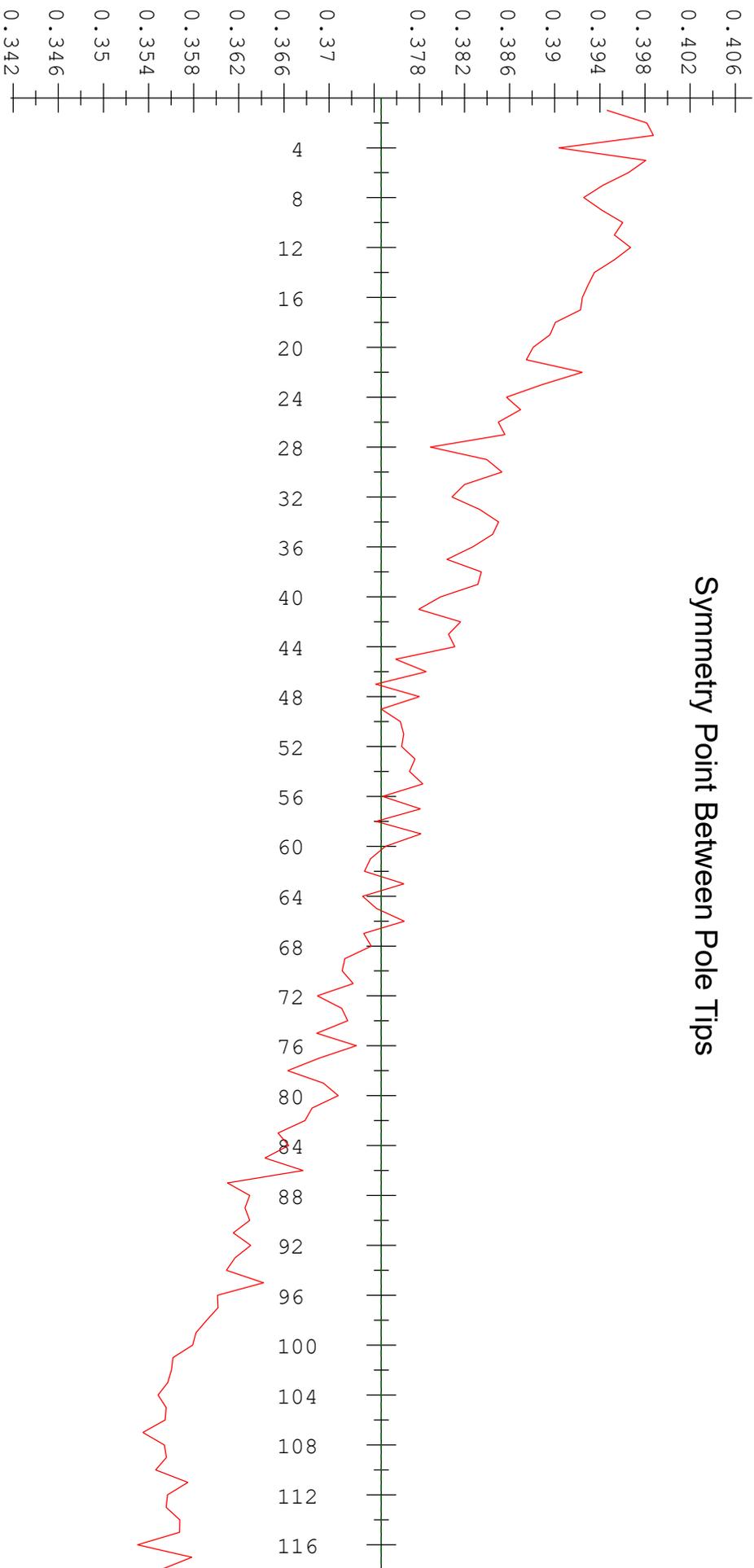
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = -0.100
Gap Reading = 9.9500 US Encoder = 10.0000 DS Encoder = 9.9000

03-APR-2025
S/N = 030
D/S = 0001
Run = 5

Symmetry Point Between Pole Tips



Mean Symmetry Value = 0.3746

Step Between Measured Pole Tips = 1

Dimensions in mm



METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = -0.100
Gap Reading = 9.9500 US Encoder = 10.0000 DS Encoder = 9.9000

03-APR-2025
S/N = 030
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	5.4024	5.3817	5.3342	5.3128
Bottom	-4.6094	-4.6089	-4.6078	-4.6073
Gap	10.0118			9.9201
Taper				-0.0917

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.3576	-4.6084	9.9660	0.3746

Additional Calculated Values

Bottom Pole #1 Z Value	978.582
Top Jaw Pitch (mrad)	-0.027
Bottom Jaw Pitch(mrad)	0.001
Minimum Effective Gap	9.904
Reference Block Gap	6.796

Dimensions in mm



METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = -0.100
 Gap Reading = 9.9500 US Encoder = 10.0000 DS Encoder = 9.9000

03-APR-2025
 S/N = 030
 D/S = 0001
 Run = 5