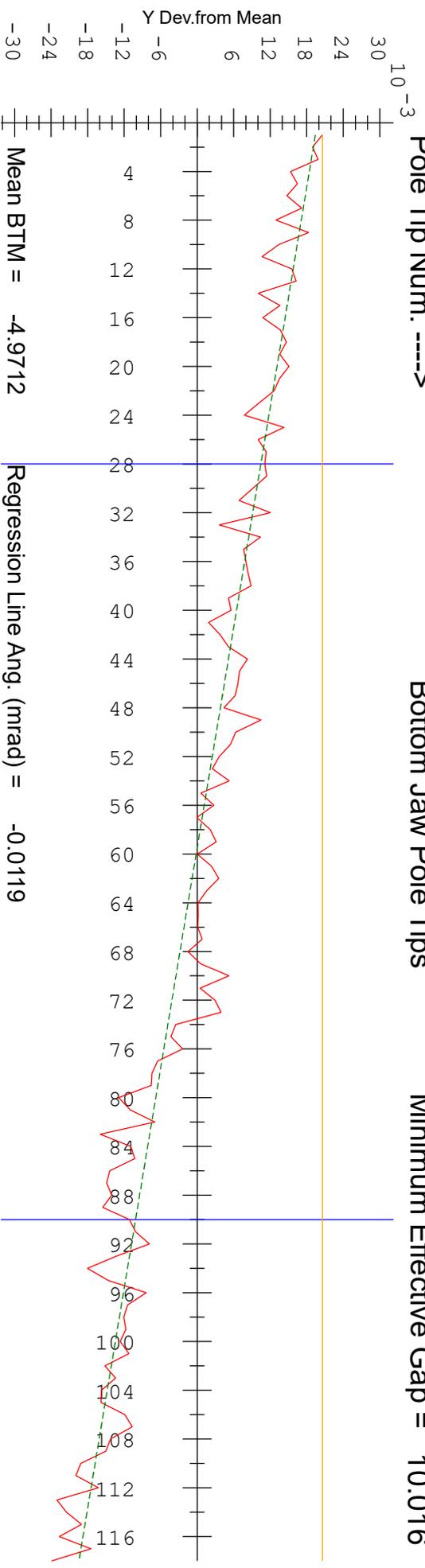
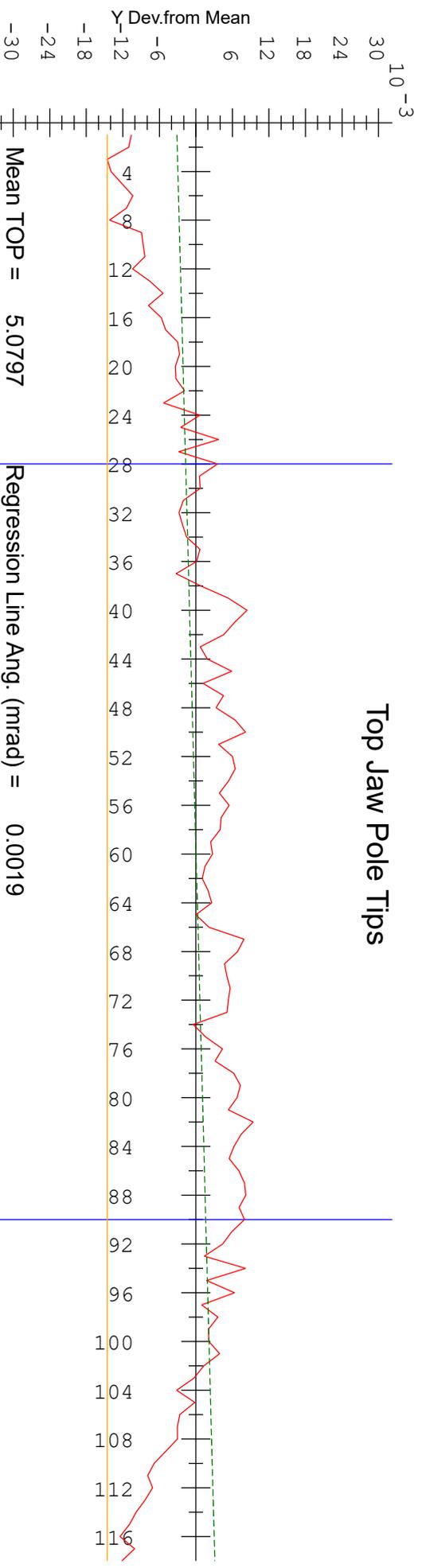


### Top Jaw Pole Tips



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

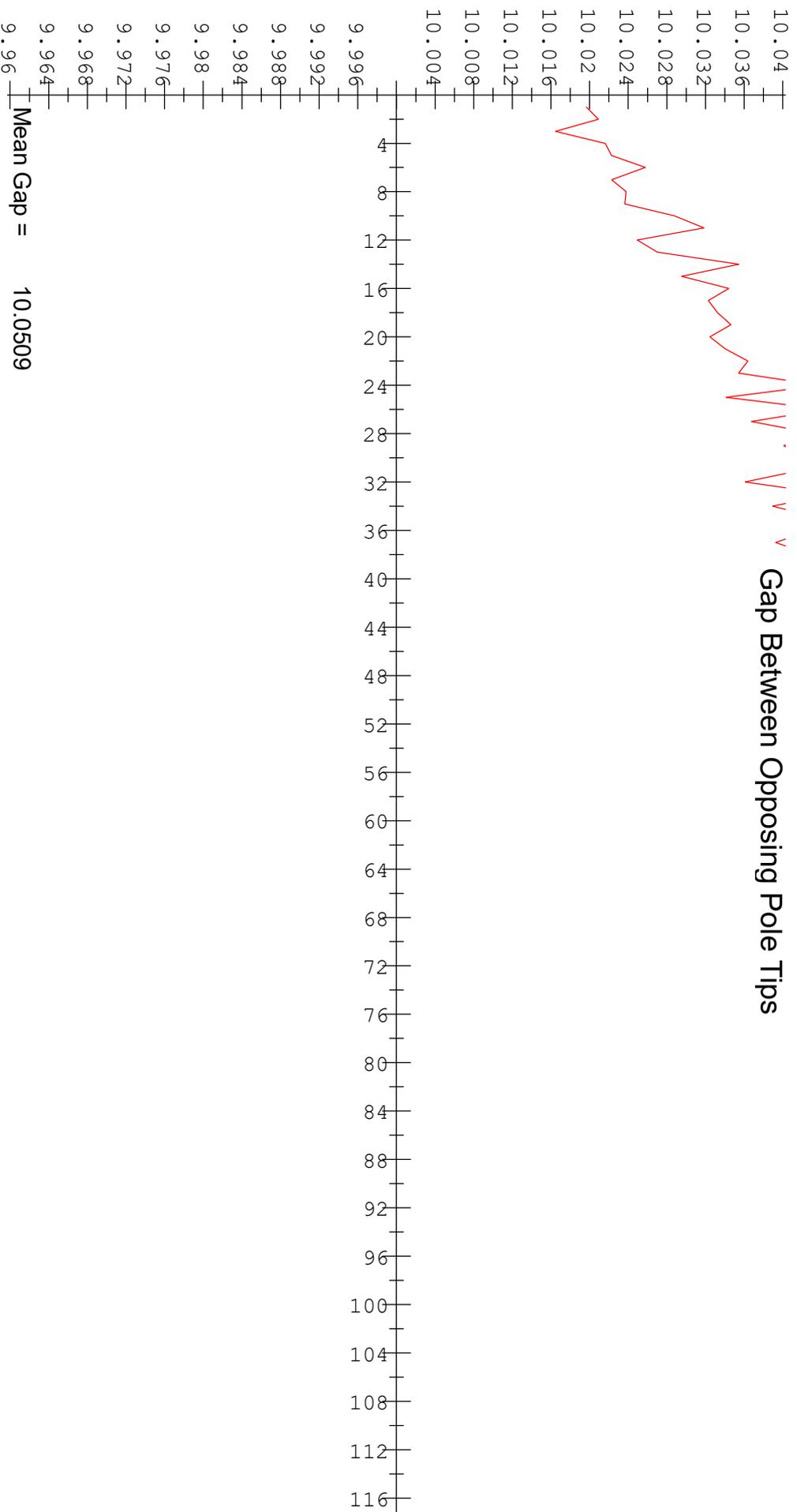
## LCLS II-HE - SXR Undulator

Nominal Gap = 10      Nominal Taper = 0.000  
Gap Reading = 10.0000      US Encoder = 9.9999      DS Encoder = 10.0001

03-MAR-2025  
S/N = 031  
D/S = 0001  
Run = 2



METROLOGY



Step Between Measured Pole Tips = 1

Dimensions in mm

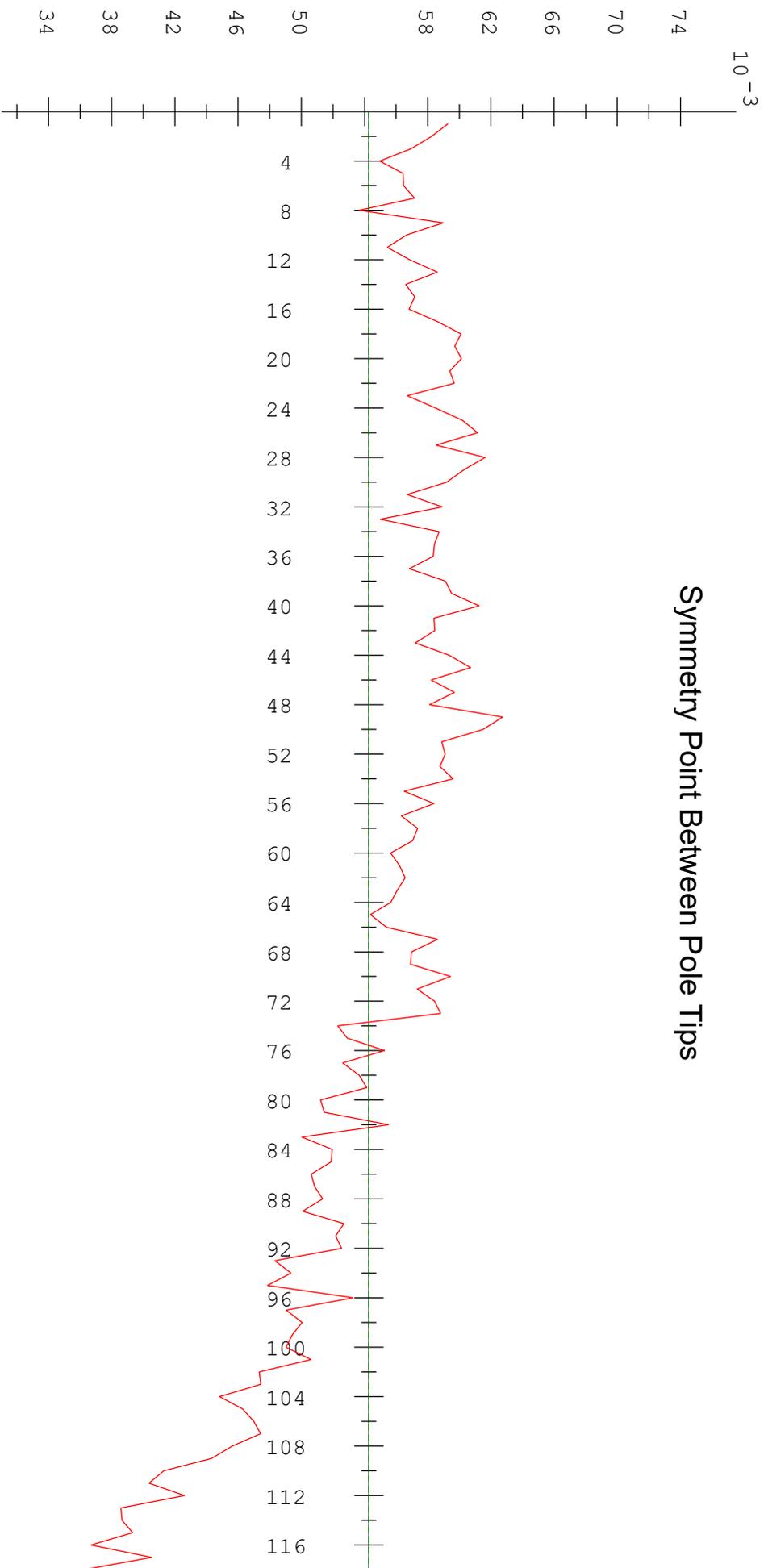


METROLOGY

# LCLS II-HE - SXR Undulator

Nominal Gap = 10      Nominal Taper = 0.000  
 Gap Reading = 10.0000      US Encoder = 9.9999      DS Encoder = 10.0001

03-MAR-2025  
 S/N = 031  
 D/S = 0001  
 Run = 2



Symmetry Point Between Pole Tips

Mean Symmetry Value = 0.0543

Step Between Measured Pole Tips = 1

Dimensions in mm



METROLOGY

### LCLS II-HE - SXR Undulator

Nominal Gap = 10      Nominal Taper = 0.000  
 Gap Reading = 10.0000      US Encoder = 9.9999      DS Encoder = 10.0001

03-MAR-2025  
 S/N = 031  
 D/S = 0001  
 Run = 2

## 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>
<b>Top</b>	5.0766	5.0780	5.0813	5.0828
<b>Bottom</b>	-4.9517	-4.9607	-4.9813	-4.9906
<b>Gap</b>	10.0283			10.0734
<b>Taper</b>				0.0451

### Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0797	-4.9712	10.0509	0.0543

### Additional Calculated Values

<b>Bottom Pole #1 Z Value</b>	978.458
<b>Top Jaw Pitch (mrad)</b>	0.002
<b>Bottom Jaw Pitch(mrad)</b>	-0.012
<b>Minimum Effective Gap</b>	10.016
<b>Reference Block Gap</b>	6.801

Dimensions in mm



METROLOGY

## LCLS II-HE - SXR Undulator

Nominal Gap = 10      Nominal Taper = 0.000  
 Gap Reading = 10.0000      US Encoder = 9.9999      DS Encoder = 10.0001

03-MAR-2025  
 S/N = 031  
 D/S = 0001  
 Run = 2