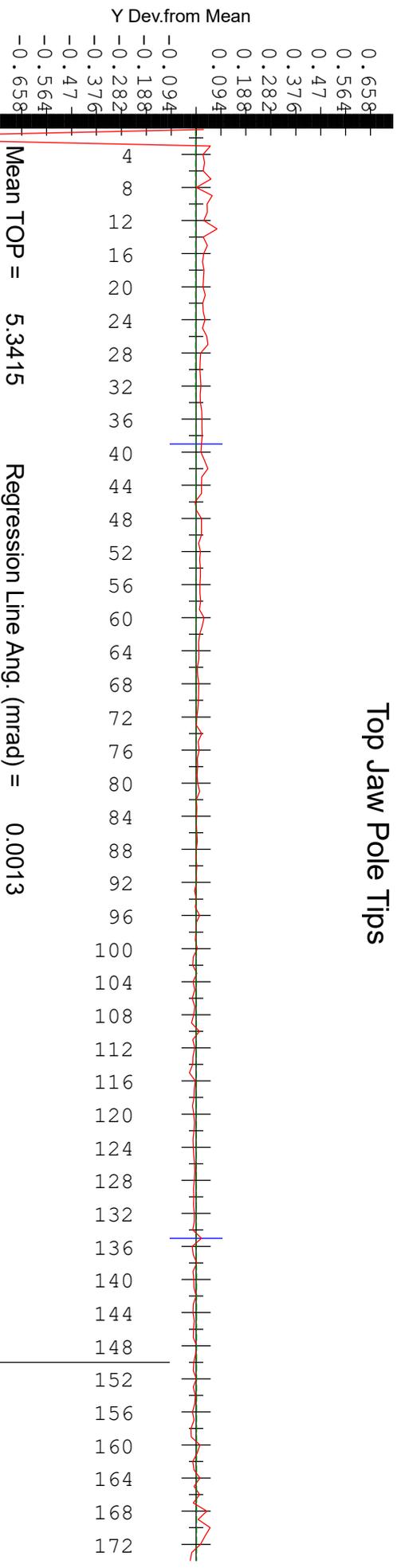


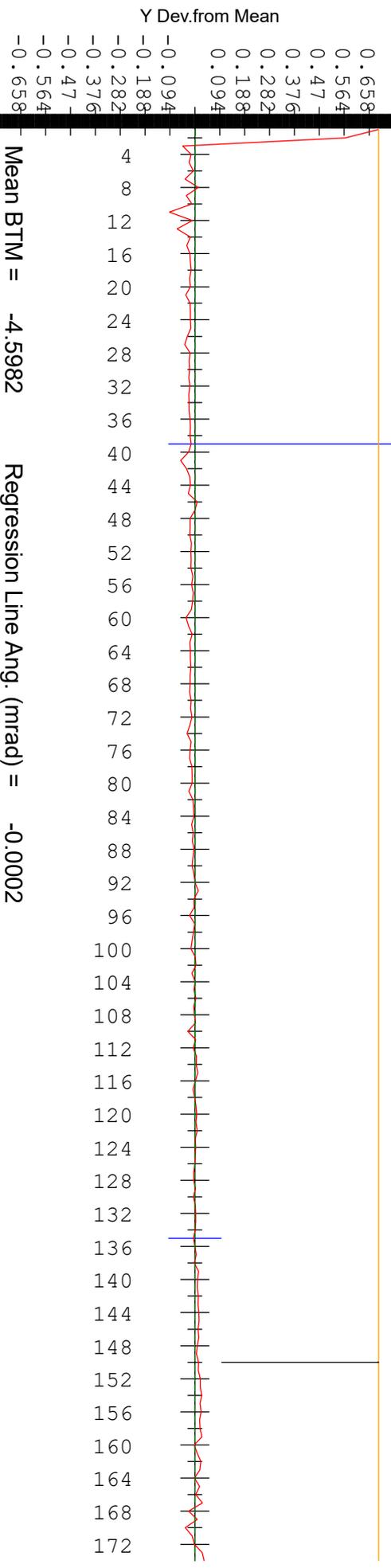
### Top Jaw Pole Tips



Pole Tip Num. ---->

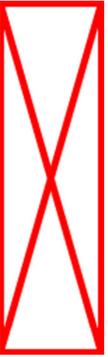
Bottom Jaw Pole Tips

Minimum Effective Gap = 7.860



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

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



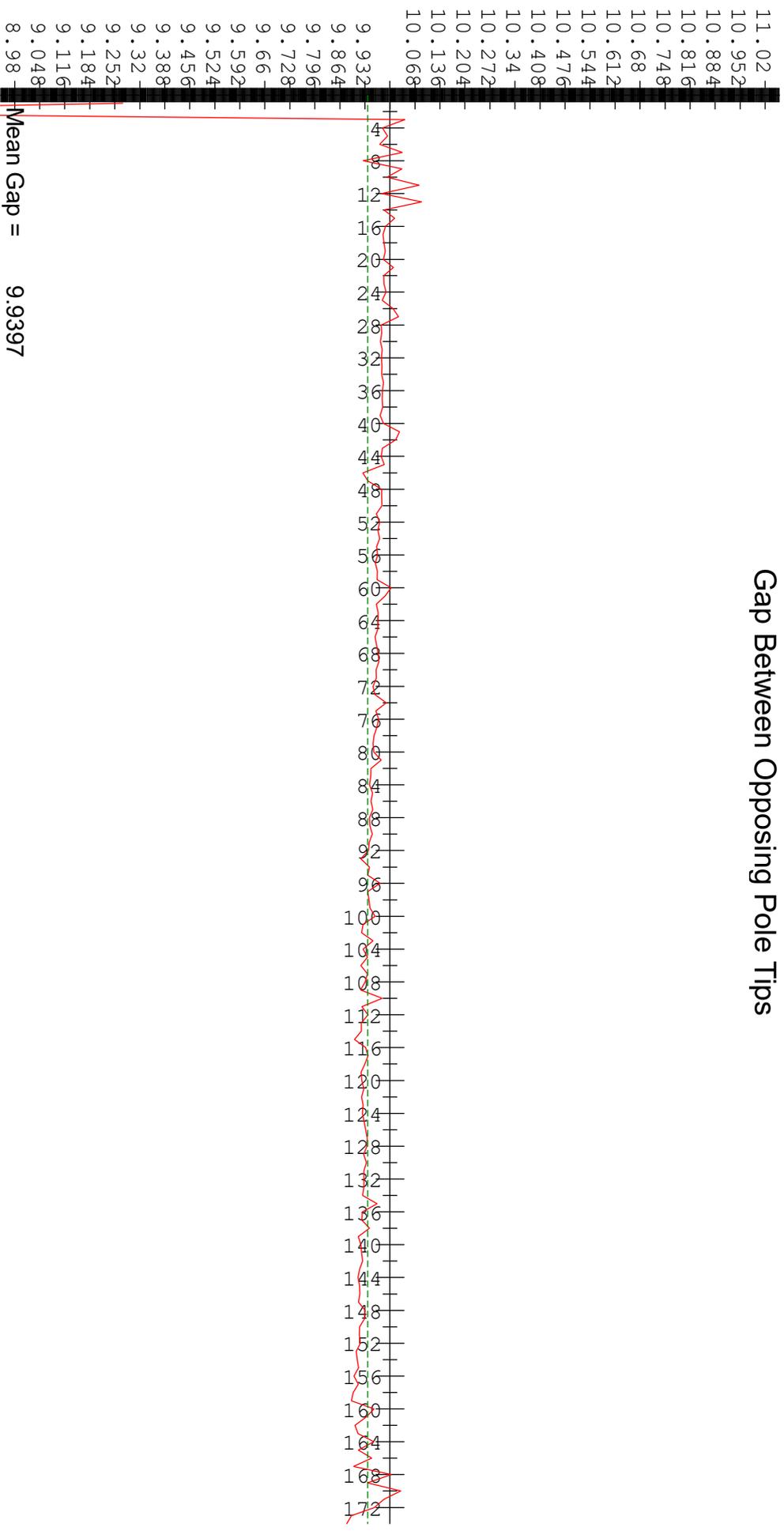
METROLOGY

## LCLS II - SXR Undulator

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

10-AUG-2021  
S/N = 021  
D/S = 0002  
Run = 11

## Gap Between Opposing Pole Tips



Step Between Measured Pole Tips = 1

Dimensions in mm



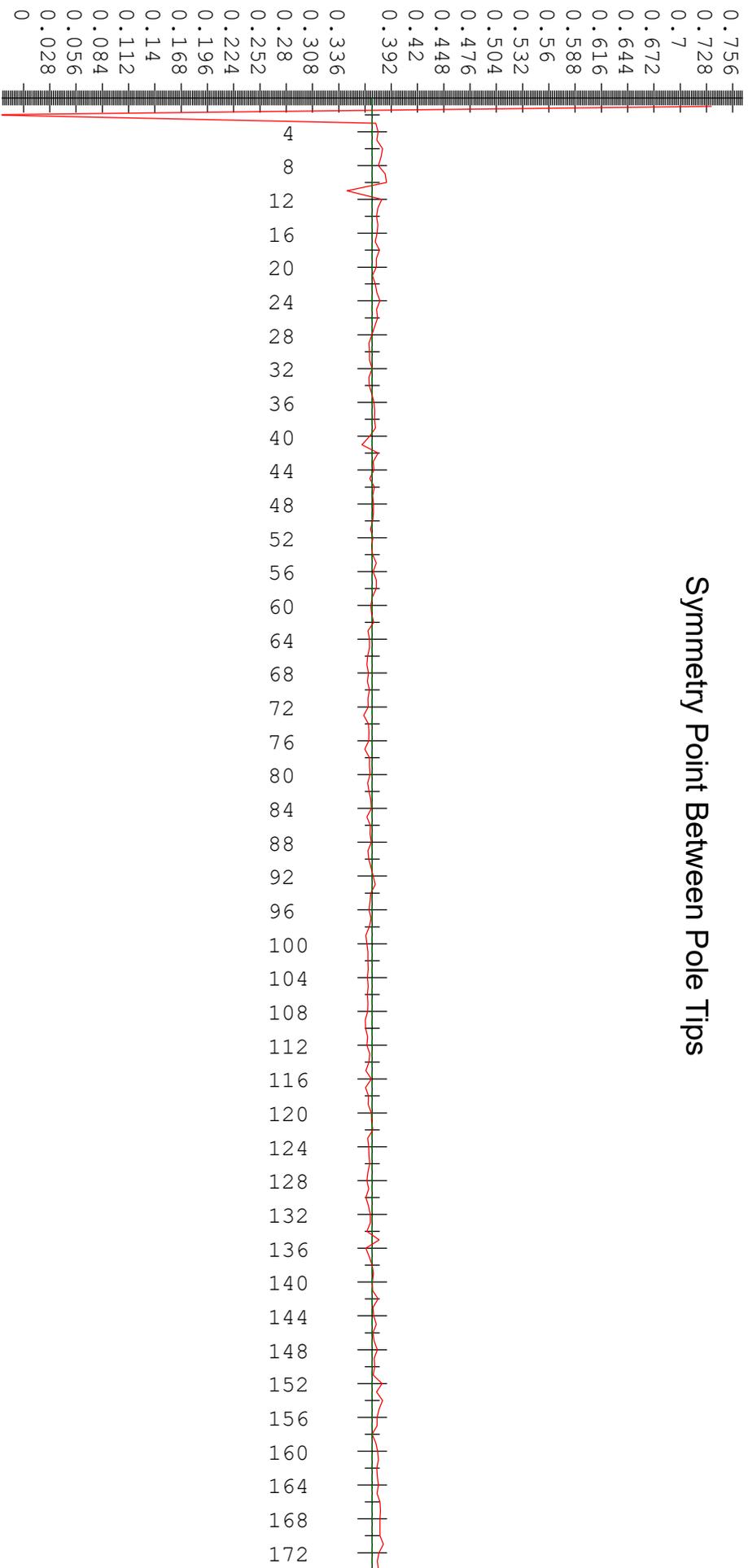
METROLOGY

### LCLS II - SXR Undulator

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

10-AUG-2021  
 S/N = 021  
 D/S = 0002  
 Run = 11

### Symmetry Point Between Pole Tips



Mean Symmetry Value = 0.3716

Step Between Measured Pole Tips = 1

Dimensions in mm



METROLOGY

## LCLS II - SXR Undulator

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

10-AUG-2021  
S/N = 021  
D/S = 0002  
Run = 11

## Top and Bottom Jaw Regression Line Intersect Points

Jaw	First Pole <i>(Pole -1)</i>	US Actuator <i>(Pole 39)</i>	DS Actuator <i>(Pole 135)</i>	Last Pole <i>(Pole 174)</i>
<b>Top</b>	5.3392	5.3402	5.3427	5.3438
<b>Bottom</b>	-4.5978	-4.5980	-4.5984	-4.5986
<b>Gap</b>	9.9371			9.9423
<b>Taper</b>				0.0053

### Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.3415	-4.5982	9.9397	0.3716

### Additional Calculated Values

<b>Bottom Pole #1 Z Value</b>	<b>980.195</b>
<b>Top Jaw Pitch (mrad)</b>	<b>0.001</b>
<b>Bottom Jaw Pitch(mrad)</b>	<b>0.000</b>
<b>Minimum Effective Gap</b>	<b>7.860</b>
<b>Reference Block Gap</b>	<b>6.800</b>

Dimensions in mm



METROLOGY

## LCLS II - SXR Undulator

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

10-AUG-2021  
 S/N = 021  
 D/S = 0002  
 Run = 11