LCLS II - SXR Undulator

METROLOGY

Nominal Gap = 15 **Nominal Taper = 0.000**

Gap Reading = 15.0000 US Encoder = 15.0000

Nominal Gap = 15.0000 DS Encoder = 15.0000

11-AUG-2021
S/N = 021
D/S = 0002
Run= 23

Top Jaw Pole Tips

Y Dev.from Mean

Mean TOP = 7.9007

Regression Line Ang. (mrad) = 0.0010

Bottom Jaw Pole Tips

Y Dev.from Mean

Pole Tip Num. --->

Minimum Effective Gap = 14.970

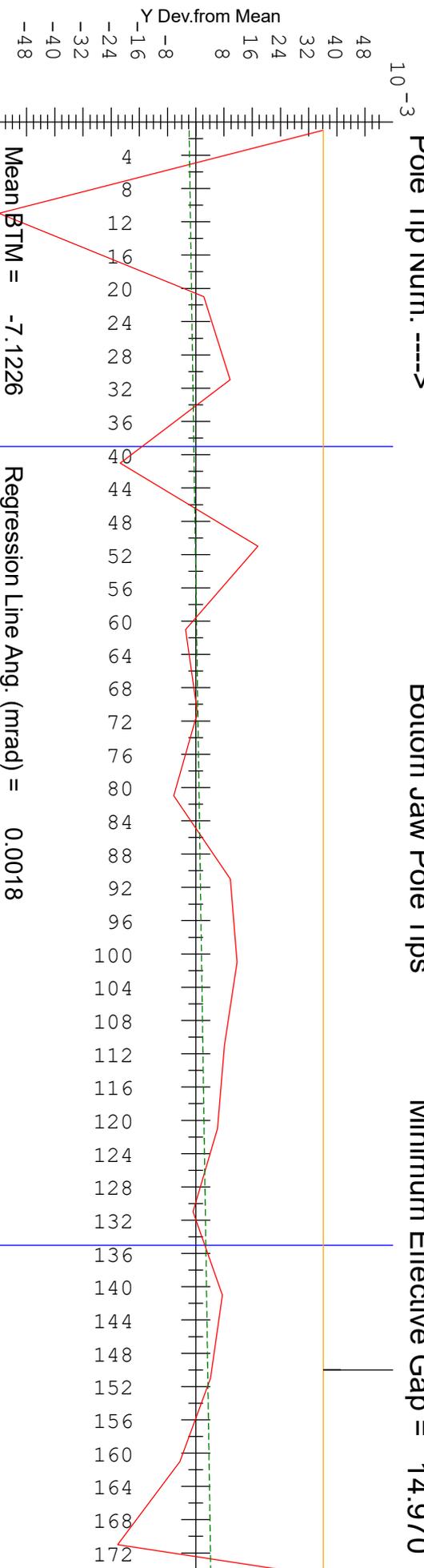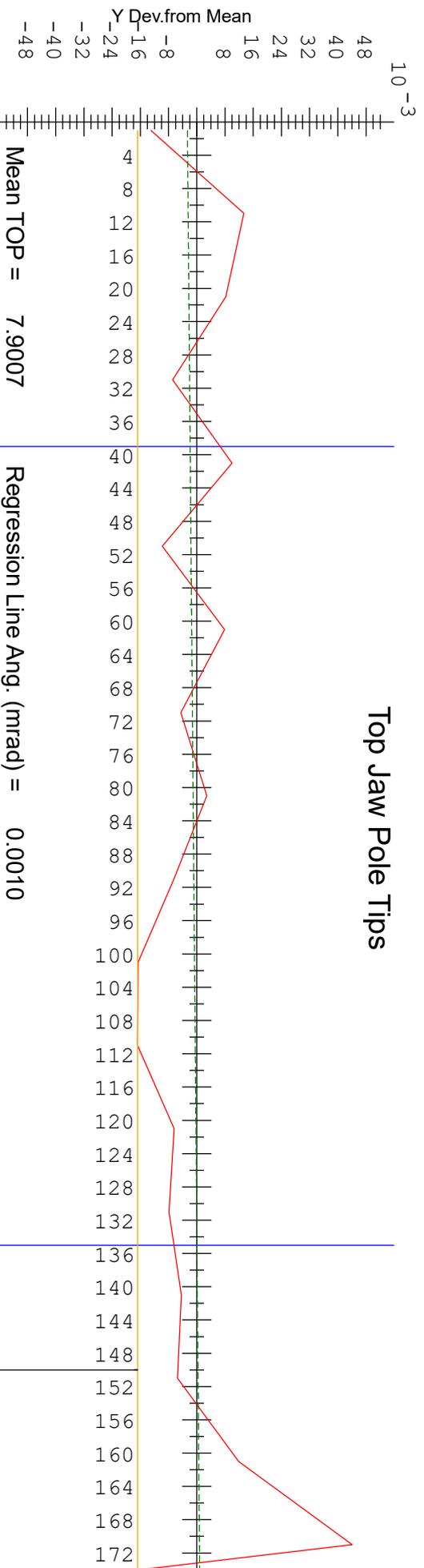
Y Dev. from Mean

Mean BTM = -7.1226

Regression Line Ang. (mrad) = 0.0018

Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips = 10

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

LCLS II - SXR Undulator

Gap Between Opposing Pole Tips

Dimensions in mm

Step Between Measured Pole Tips = **10**

Mean Gap = 15.0233

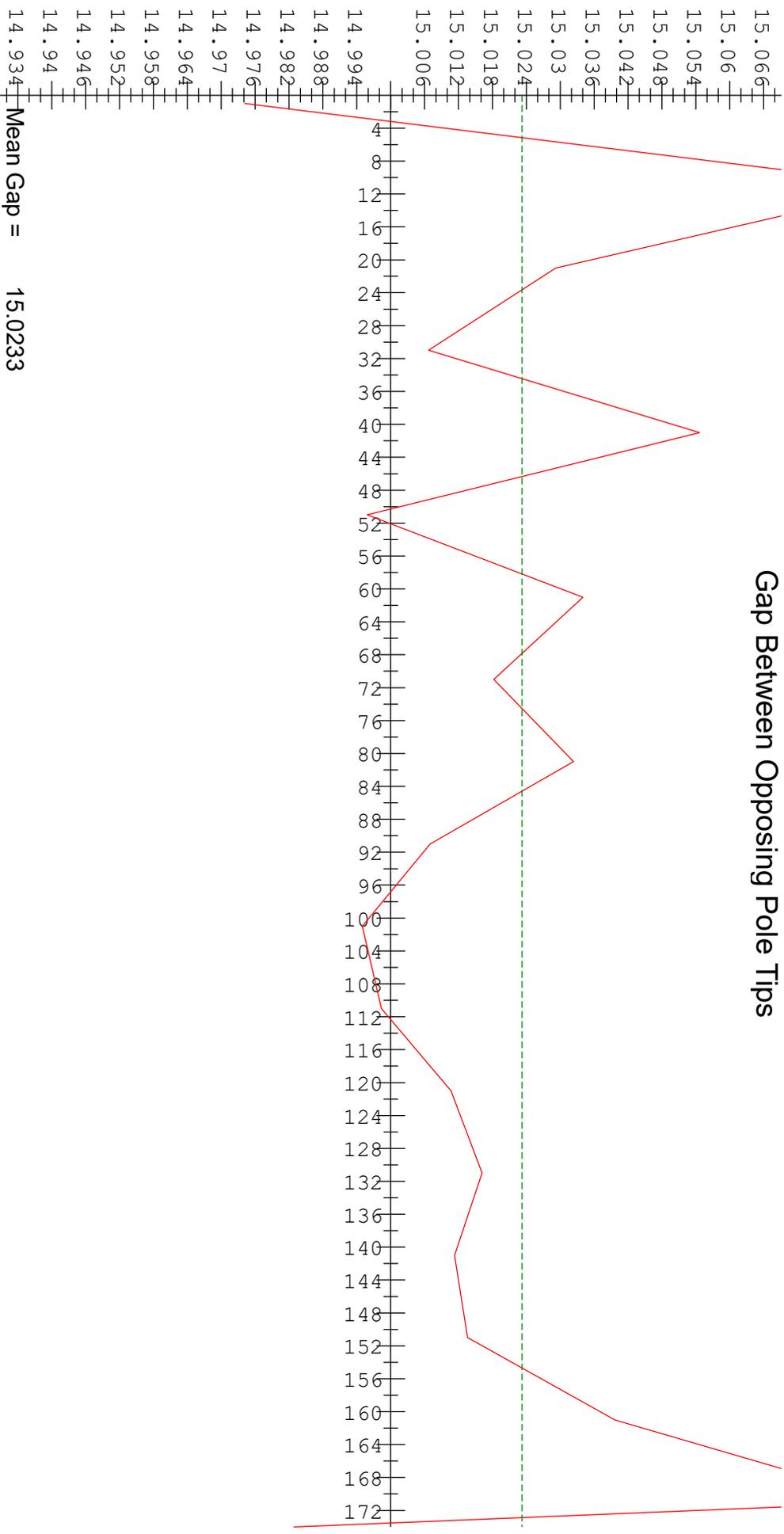| Nominal Gap = 15 | Nominal Taper = 0.000 | 11-AUG-2021 |
Gap Reading = 15.0000	US Encoder = 15.0000	S/N = 021
	DS Encoder = 15.0000	D/S= 0002
		Run= 23

METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 15   Nominal Taper = 0.000

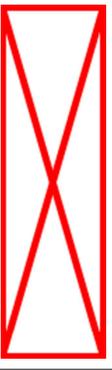Gap Reading = 15.0000   US Encoder = 15.0000   DS Encoder = 15.0000

METROLOGY

Step Between Measured Pole Tips =   10

Mean Symmetry Value =   0.3890

Symmetry Point Between Pole Tips

Dimensions in mm

11-AUG-2021
S/N =   021
D/S=   0002
Run=   23

Top and Bottom Jaw
Regression Line Intersect Points

Jaw	First Pole (Pole 1)	US Actuator (Pole 39)	DS Actuator (Pole 135)	Last Pole (Pole 174)
Top	7.8980	7.8988	7.9007	7.9015
Bottom	-7.1245	-7.1231	-7.1197	-7.1184
Gap	15.0225		15.0199	
Taper				-0.0027

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
7.9007	-7.1226	15.0233	0.3890

Additional Calculated Values

Bottom Pole #1 Z Value	980.195
Top Jaw Pitch (mrad)	0.001
Bottom Jaw Pitch(mrad)	0.002
Minimum Effective Gap	14.970
Reference Block Gap	6.800

LCLS II - SXR Undulator

Nominal Gap = 15 **Nominal Taper = 0.000**
Gap Reading = 15.0000   US Encoder = 15.0000   DS Encoder = 15.0000

Nominal Gap = 15.0000

METROLOGY

Dimensions in mm

11-AUG-2021
S/N = 021
D/S= 0002
Run= 23