Top Jaw Pole Tips

Y Dev. from Mean

Mean TOP = 10.1336   Regression Line Ang. (mrad) = 0.0234

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap = 19.909

Y Dev. from Mean

Mean BTM = -9.8799   Regression Line Ang. (mrad) = 0.0245

Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips = 5
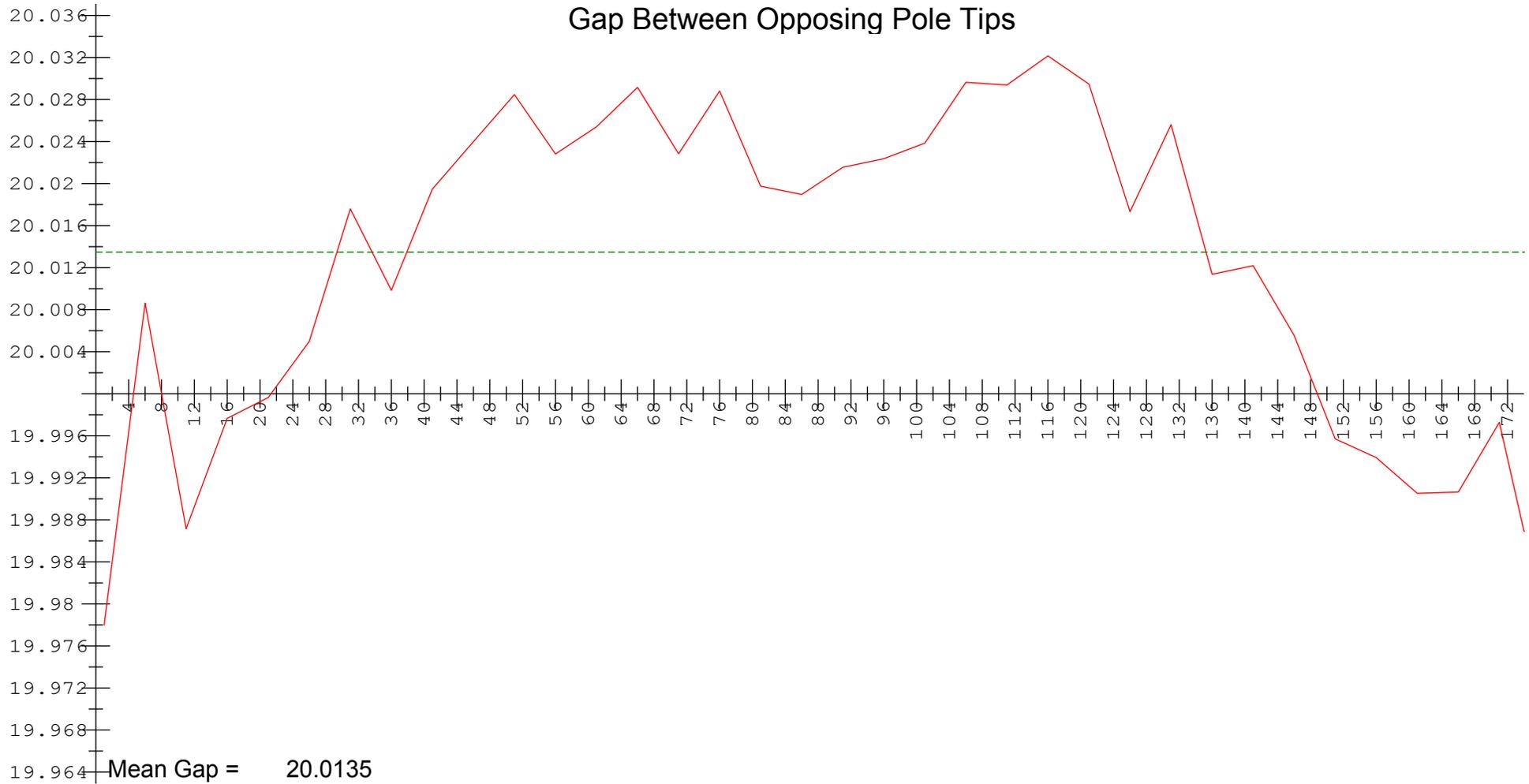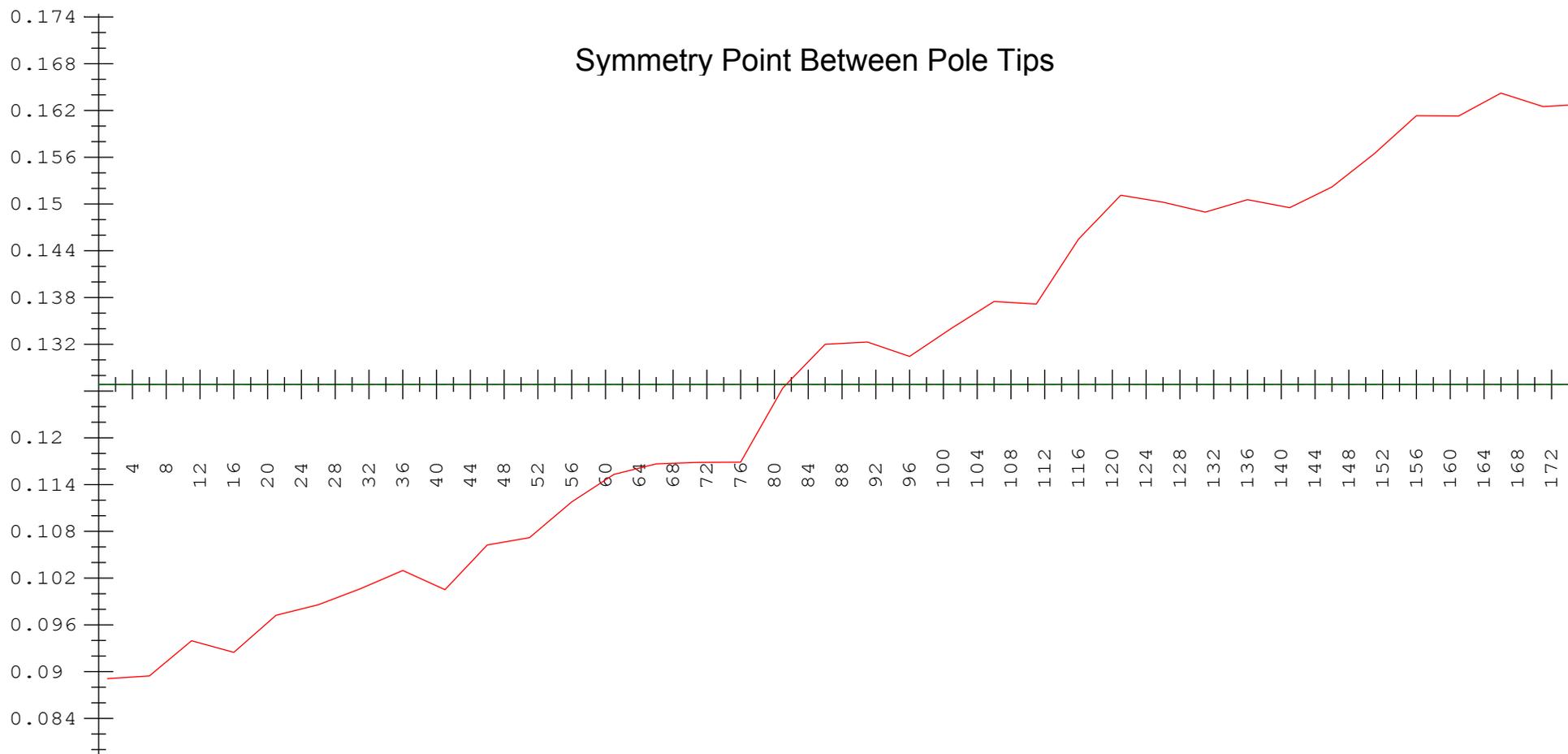
Regression Line Through Points =
Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 20   Nominal Taper = 0.000

Gap Reading = 20.0000   US Encoder = 20.0000   DS Encoder = 20.0000

SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

01-OCT-2018
S/N = 015
D/S = 0001
Run= 11

Gap Between Opposing Pole Tips

Mean Gap =   20.0135

Step Between Measured Pole Tips =   5   Dimensions in mm

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.1268

Step Between Measured Pole Tips =   5

Dimensions in mm

| SLAC NATIONAL ACCELERATOR LABORATORY METROLOGY | **LCLS II - SXR Undulator**
 Nominal Gap = 20   Nominal Taper = 0.000
 Gap Reading = 20.0000   US Encoder = 20.0000   DS Encoder = 20.0000 | 01-OCT-2018
 S/N =   015
 D/S=   0001
 Run=   11 |

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	10.0944	10.1117	10.1554	10.1732
Bottom	-9.9203	-9.9021	-9.8563	-9.8377
Gap	20.0147			20.0109
Taper				-0.0038

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
10.1336	-9.8799	20.0135	0.1268

Additional Calculated Values

Bottom Pole #1 Z Value	980.409
Top Jaw Pitch (mrad)	0.023
Bottom Jaw Pitch(mrad)	0.024
Minimum Effective Gap	19.909
Reference Block Gap	6.807

Dimensions in mm

SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 20   Nominal Taper = 0.000
Gap Reading = 20.0000   US Encoder = 20.0000   DS Encoder = 20.0000

01-OCT-2018
S/N = 015
D/S = 0001
Run = 11