Top Jaw Pole Tips

Y Dev. from Mean

Mean TOP = 10.1145   Regression Line Ang. (mrad) = -0.0004

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap = 19.991

Y Dev. from Mean

Mean BTM = -9.9085   Regression Line Ang. (mrad) = -0.0005

Y Value Scales Centered on Mean Values

Regression Line Through Points =

Step Between Measured Pole Tips = 7
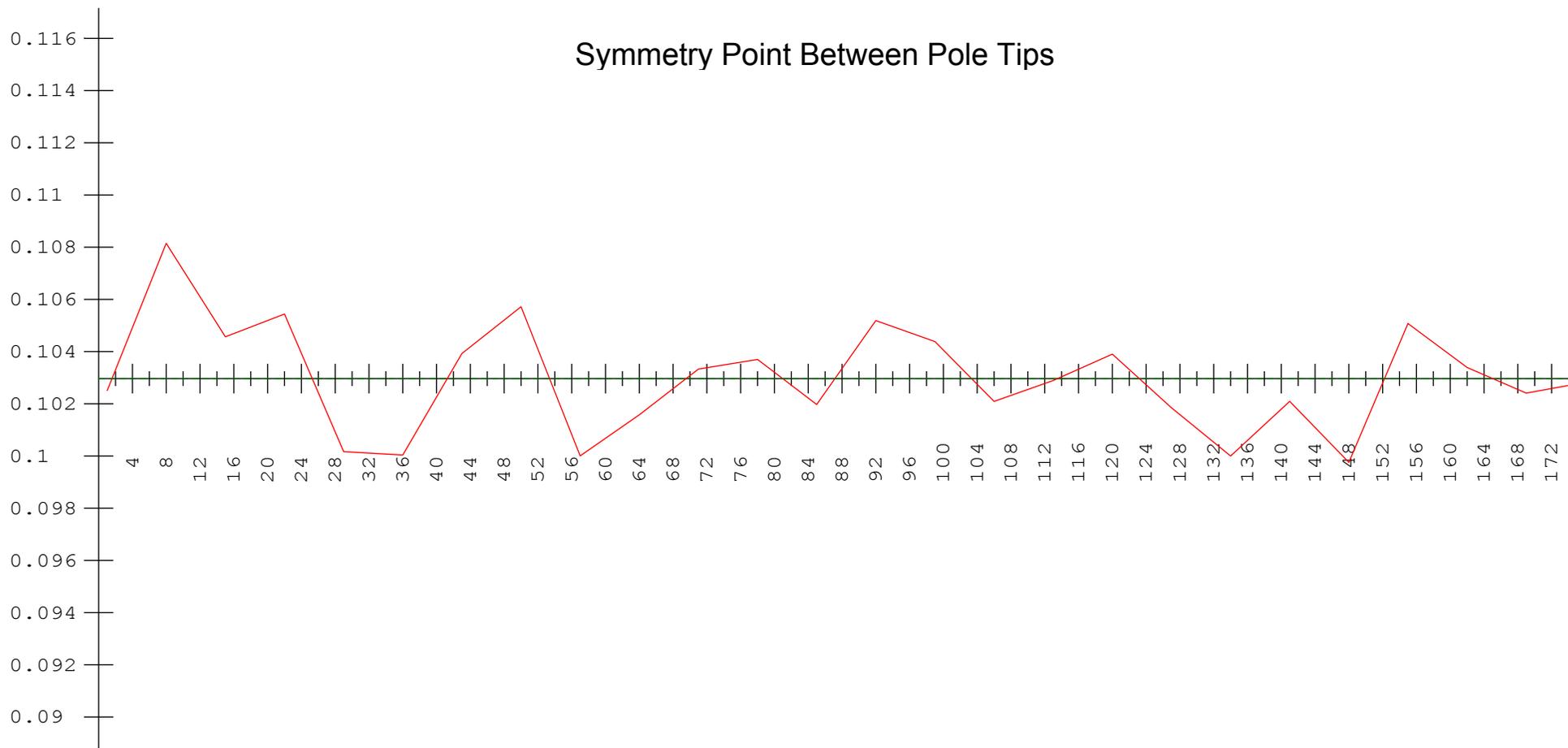
Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 20   Nominal Taper = 0.000

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

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22-JUN-2018
S/N = 012
D/S = 0001
Run = 14

Gap Between Opposing Pole Tips

20.024
20.02
20.016
20.012
20.008
20.004
19.996
19.992
19.988
19.984
19.98
19.976

4 8 12 16 20 24 28 32 36 40 44 48 52 56 60 64 68 72 76 80 84 88 92 96 100 104 108 112 116 120 124 128 132 136 140 144 148 152 156 160 164 168 172

Mean Gap =   20.0230

Step Between Measured Pole Tips =   7

Dimensions in mm

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METROLOGY

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

22-JUN-2018
S/N =   012
D/S=   0001
Run=   14

Symmetry Point Between Pole Tips
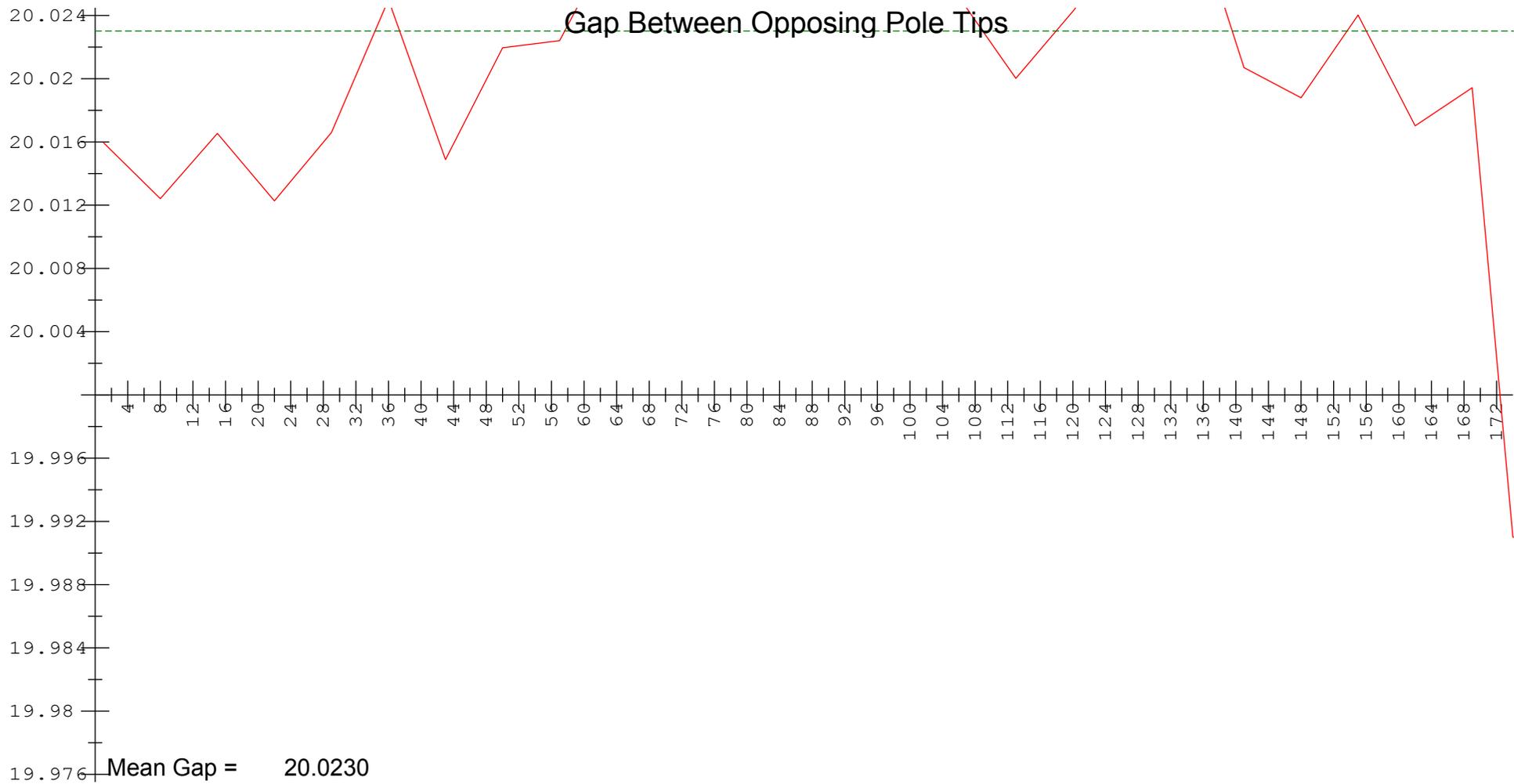
Mean Symmetry Value =   0.1030

Step Between Measured Pole Tips =   7

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

22-JUN-2018
S/N =   012
D/S=   0001
Run=   14

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	10.1146	10.1143	10.1135	10.1132
Bottom	-9.9071	-9.9074	-9.9084	-9.9088
Gap	20.0216			20.0219
Taper				0.0003

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
10.1145	-9.9085	20.0230	0.1030

Additional Calculated Values

Bottom Pole #1 Z Value	979.792
Top Jaw Pitch (mrad)	0.000
Bottom Jaw Pitch(mrad)	-0.001
Minimum Effective Gap	19.991
Reference Block Gap	6.808

Dimensions in mm

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

22-JUN-2018
S/N = 012
D/S = 0001
Run = 14