Top Jaw Pole Tips

Y Dev.from Mean

Pole Tip Num. ---->

Mean TOP =   3.6139   Regression Line Ang. (mrad) =   -0.0015

Minimum Effective Gap =   7.353

Bottom Jaw Pole Tips

Y Dev.from Mean

Mean BTM =   -3.7781   Regression Line Ang. (mrad) =   0.0002

Y Value Scales Centered on Mean Values

Step Between Measured Pole Tips =   7

Regression Line Through Points =

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 7.4   Nominal Taper = 0.000

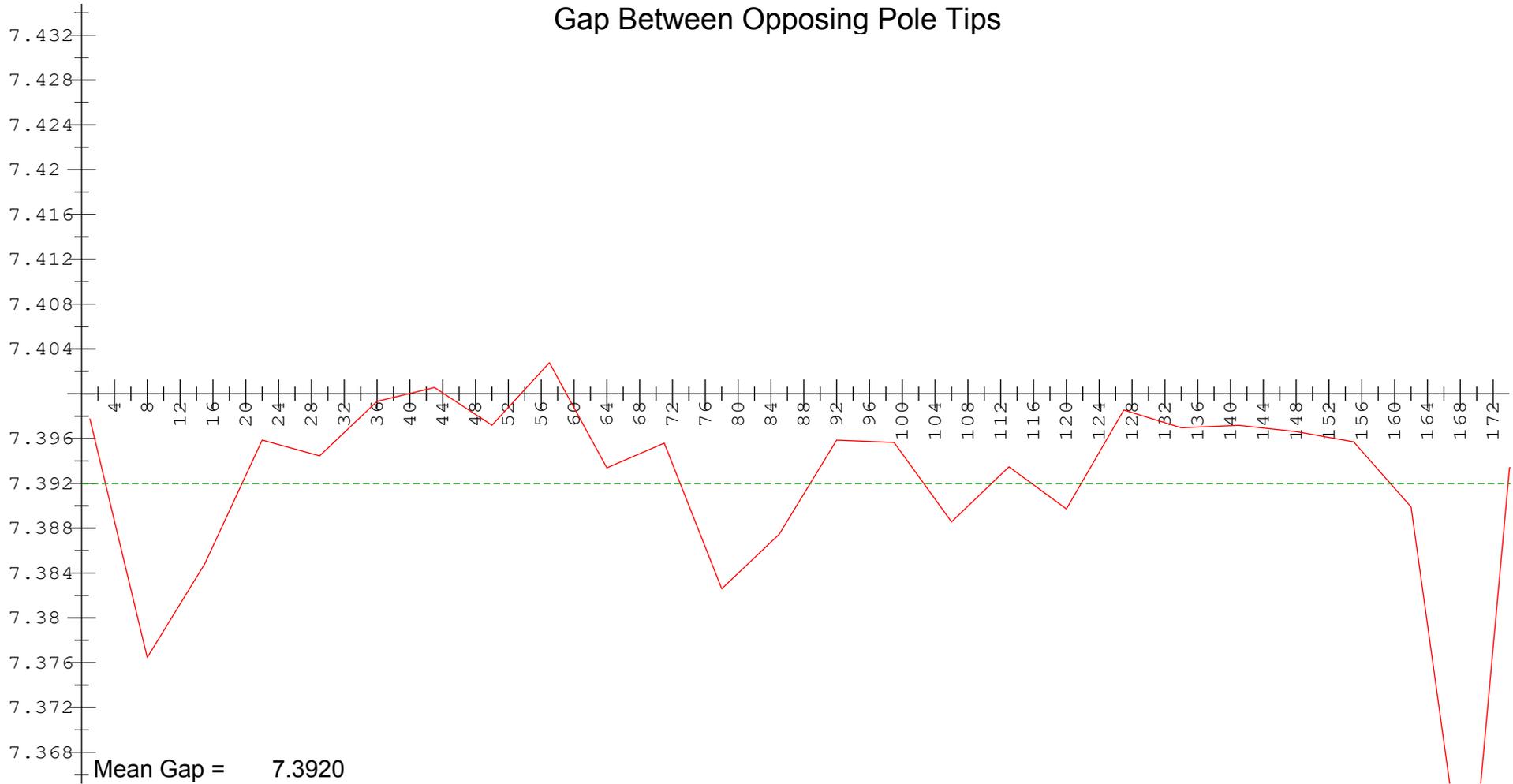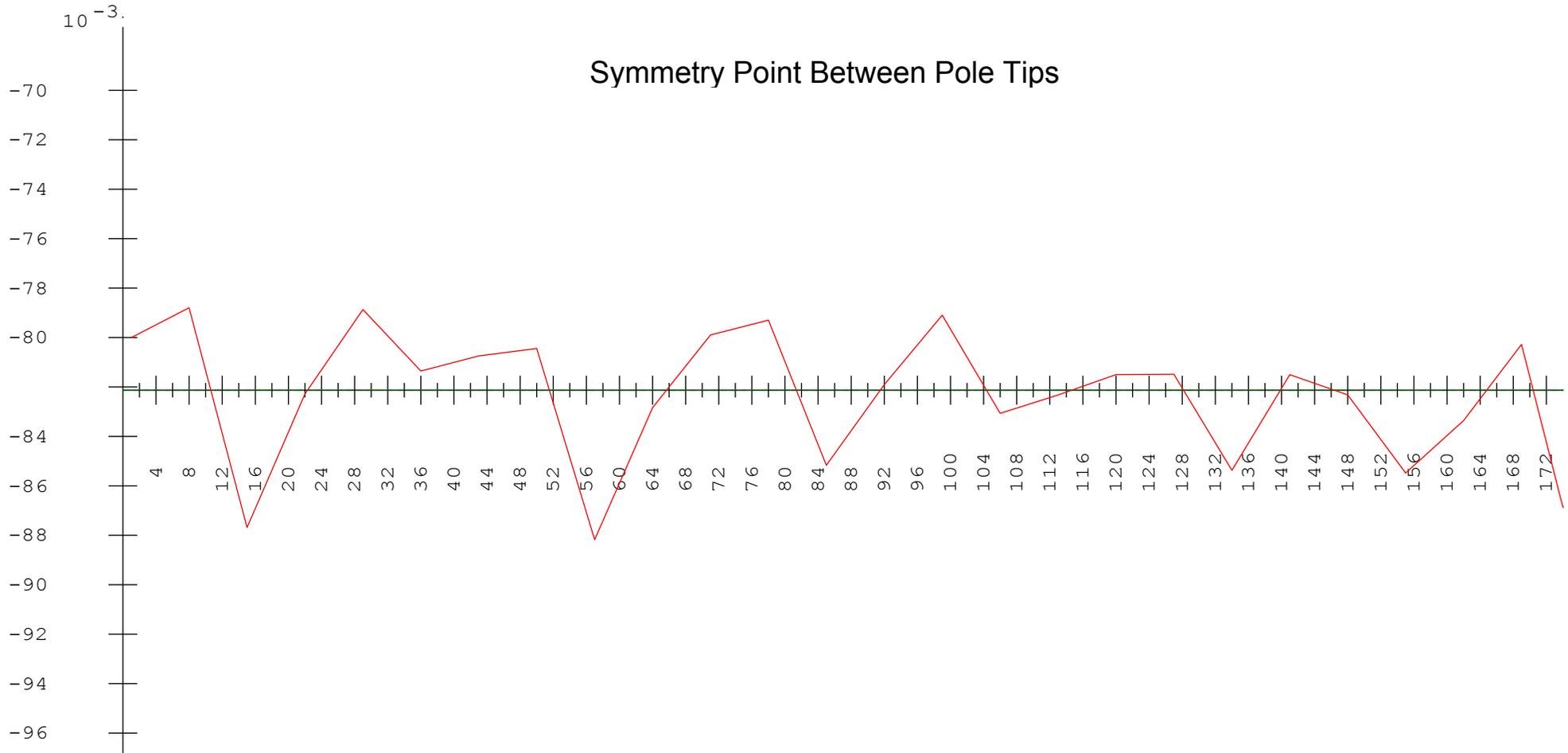Gap Reading = 7.4000   US Encoder = 7.4000   DS Encoder = 7.3999

19-JUL-2018
S/N =   013
D/S=   0001
Run=   5

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Gap Between Opposing Pole Tips

Mean Gap =   7.3920

Step Between Measured Pole Tips =   7

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 7.4   Nominal Taper = 0.000

Gap Reading = 7.4000   US Encoder = 7.4000   DS Encoder = 7.3999

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D/S=   0001
Run=   5

Symmetry Point Between Pole Tips

Mean Symmetry Value =   -0.0821

Step Between Measured Pole Tips =   7

Dimensions in mm

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LCLS II - SXR Undulator
Nominal Gap = 7.4   Nominal Taper = 0.000
Gap Reading = 7.4000   US Encoder = 7.4000   DS Encoder = 7.3999

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S/N =   013
D/S=   0001
Run=   5

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	3.6162	3.6151	3.6124	3.6112
Bottom	-3.7787	-3.7785	-3.7781	-3.7780
Gap	7.3949			7.3892
Taper				-0.0057

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
3.6139	-3.7781	7.3920	-0.0821

Additional Calculated Values

Bottom Pole #1 Z Value	979.775
Top Jaw Pitch (mrad)	-0.001
Bottom Jaw Pitch(mrad)	0.000
Minimum Effective Gap	7.353
Reference Block Gap	6.806

Dimensions in mm

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LCLS II - SXR Undulator
Nominal Gap = 7.4   Nominal Taper = 0.000
Gap Reading = 7.4000   US Encoder = 7.4000   DS Encoder = 7.3999

19-JUL-2018
S/N =   013
D/S=   0001
Run=   5