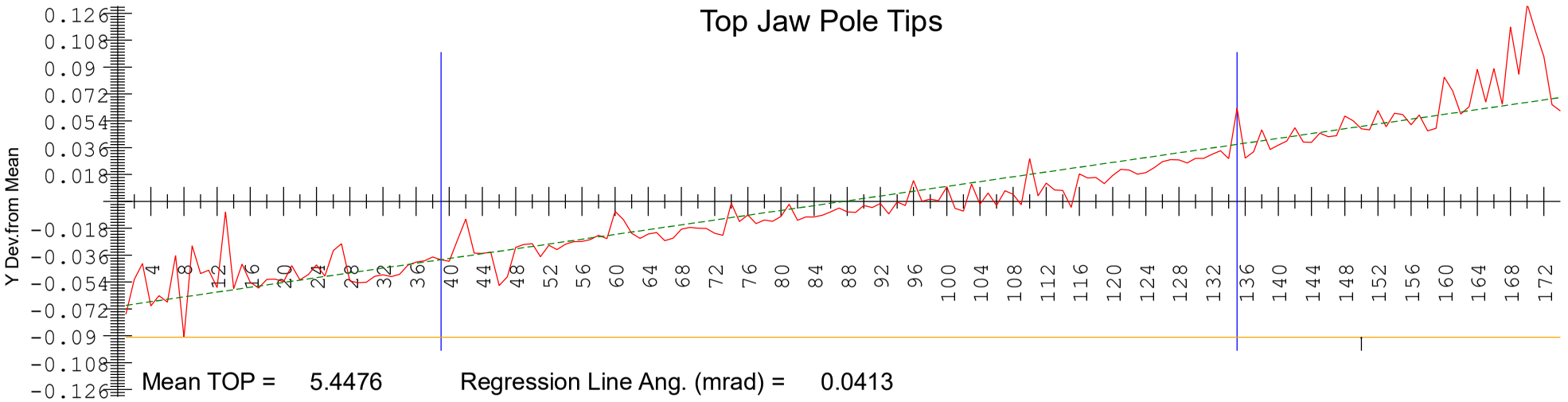
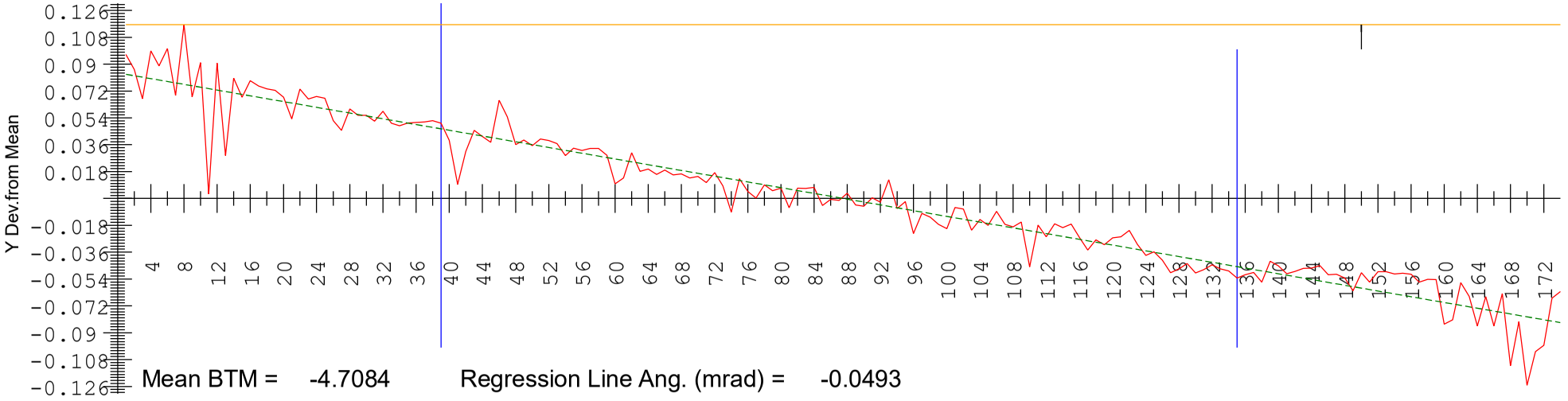


Mean TOP = 5.4476 Regression Line Ang. (mrad) = 0.0413

Pole Tip Num. ----> Bottom Jaw Pole Tips Minimum Effective Gap = 9.949



Mean BTM = -4.7084 Regression Line Ang. (mrad) = -0.0493

Y Value Scales Centered on Mean Values

Step Between Measured Pole Tips = 1

Regression Line Through Points =----------

Dimensions in mm

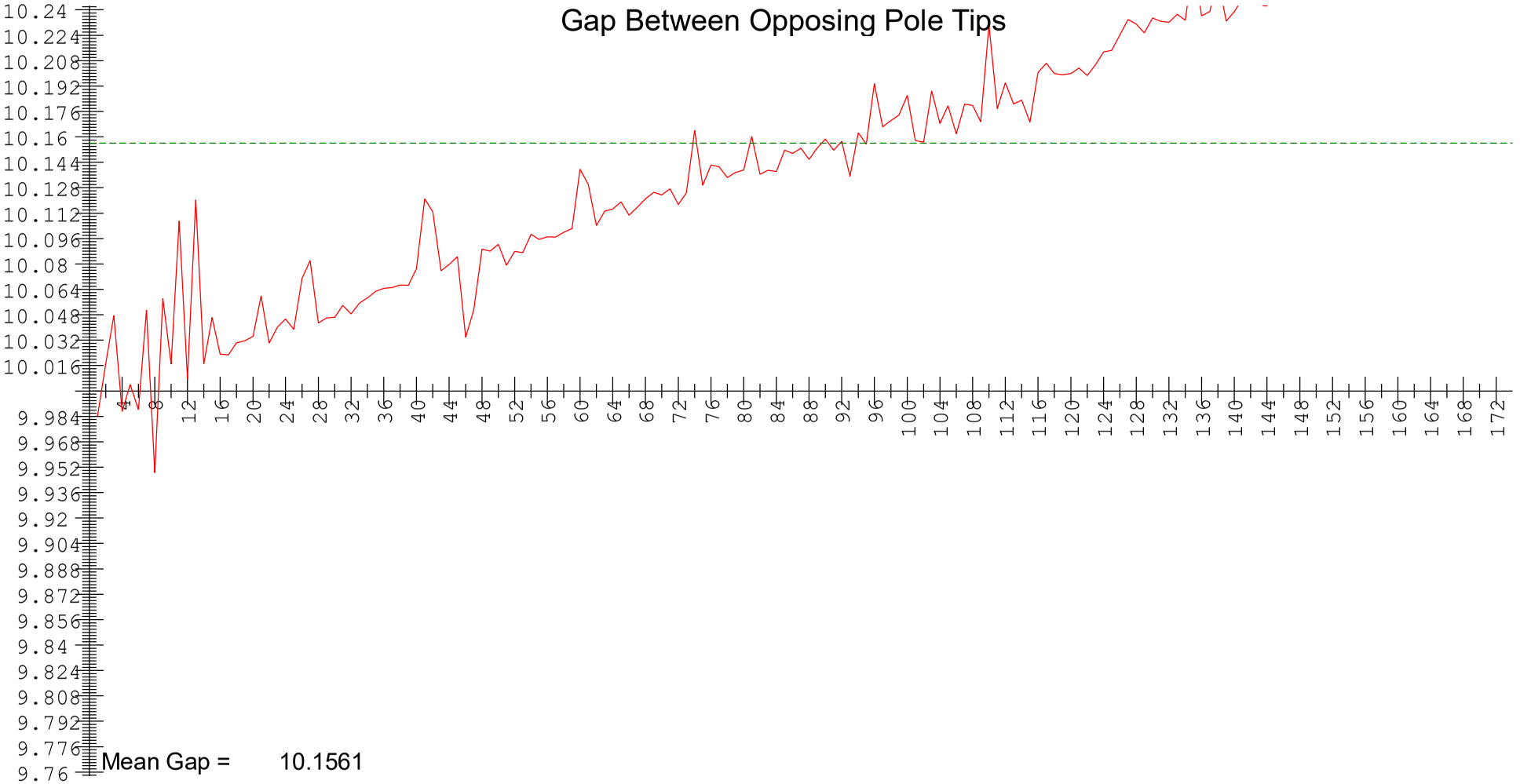
METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.300

Gap Reading = 10.1501 US Encoder = 10.0000 DS Encoder = 10.3001

10-AUG-2021
S/N = 021
D/S= 0002
Run= 13



Step Between Measured Pole Tips = 1

Dimensions in mm

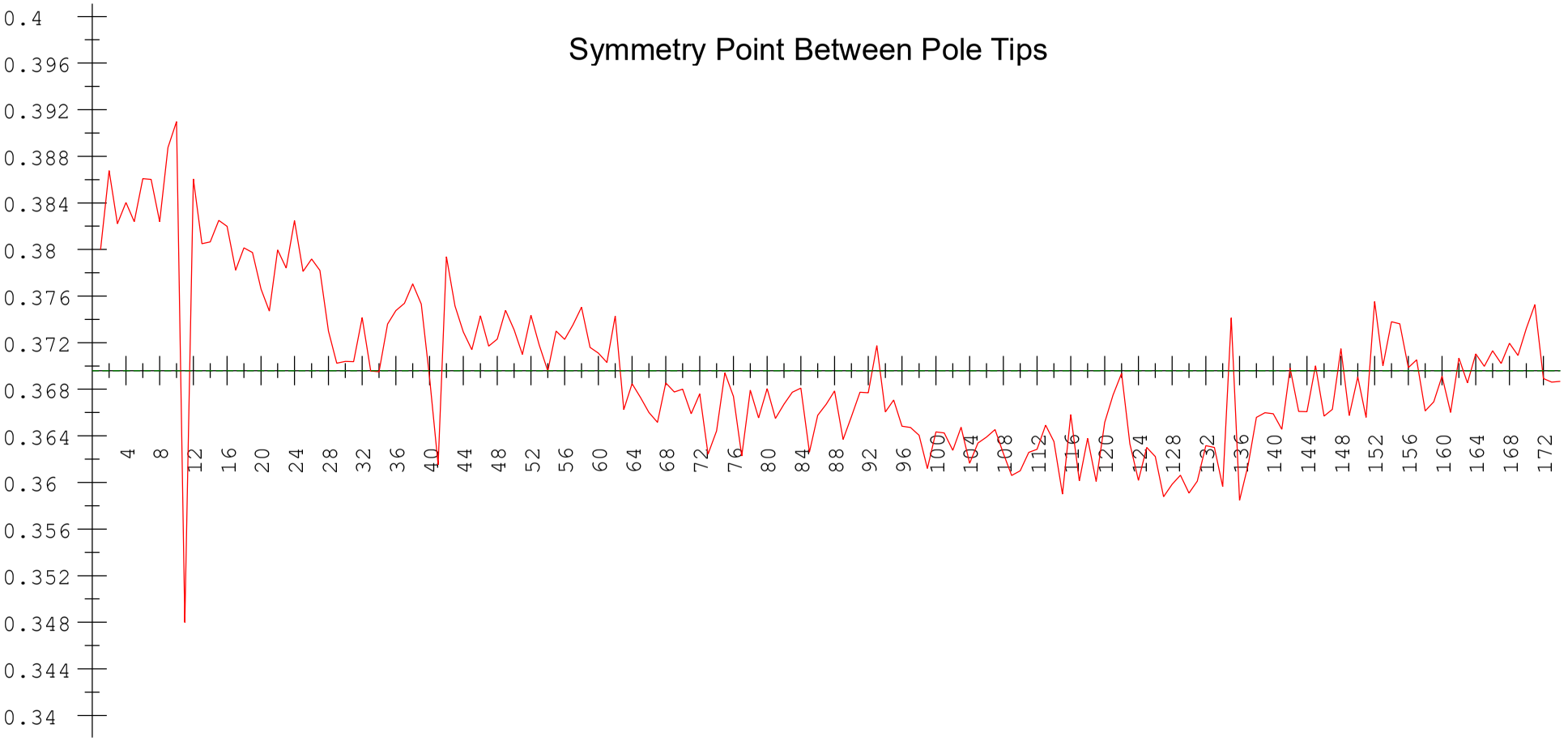
METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.300

Gap Reading = 10.1501 US Encoder = 10.0000 DS Encoder = 10.3001

10-AUG-2021
S/N = 021
D/S= 0002
Run= 13



Mean Symmetry Value = 0.3696

Step Between Measured Pole Tips = 1

Dimensions in mm

METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.300

Gap Reading = 10.1501 US Encoder = 10.0000 DS Encoder = 10.3001

10-AUG-2021
S/N = 021
D/S= 0002
Run= 13

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	5.3780	5.4086	5.4859	5.5172
Bottom	-4.6252	-4.6618	-4.7541	-4.7917
Gap	10.0033			10.3089
Taper				0.3056

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.4476	-4.7084	10.1561	0.3696

Additional Calculated Values

Bottom Pole #1 Z Value	980.195
Top Jaw Pitch (mrad)	0.041
Bottom Jaw Pitch(mrad)	-0.049
Minimum Effective Gap	9.949
Reference Block Gap	6.800

Dimensions in mm

METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.300

Gap Reading = 10.1501 US Encoder = 10.0000 DS Encoder = 10.3001

10-AUG-2021
S/N = 021
D/S= 0002
Run= 13