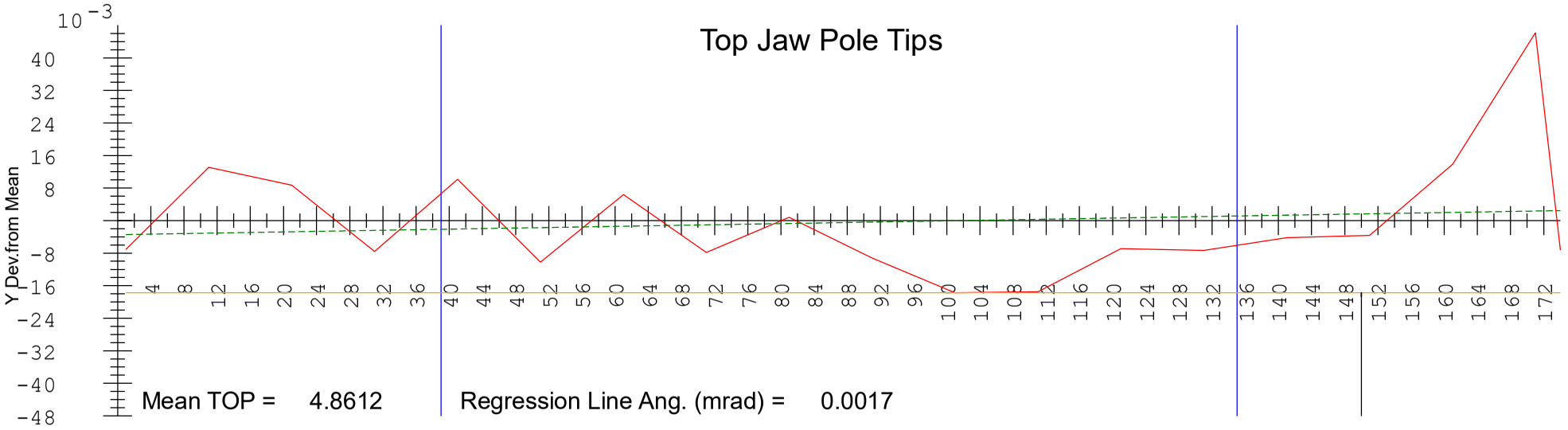
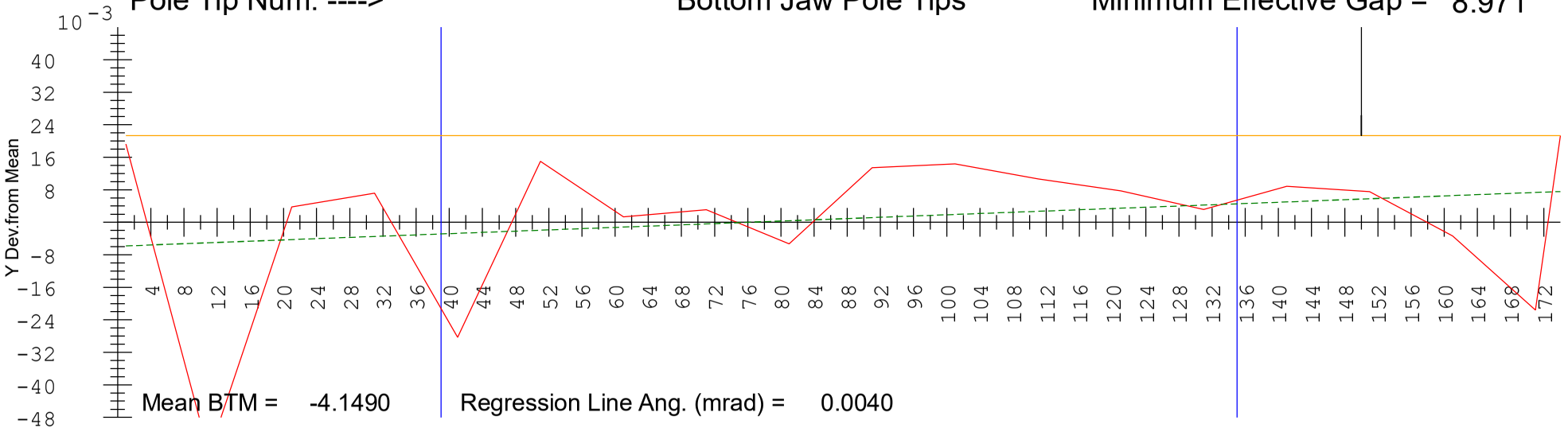


Pole Tip Num. ----> Minimum Effective Gap = 8.971



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

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

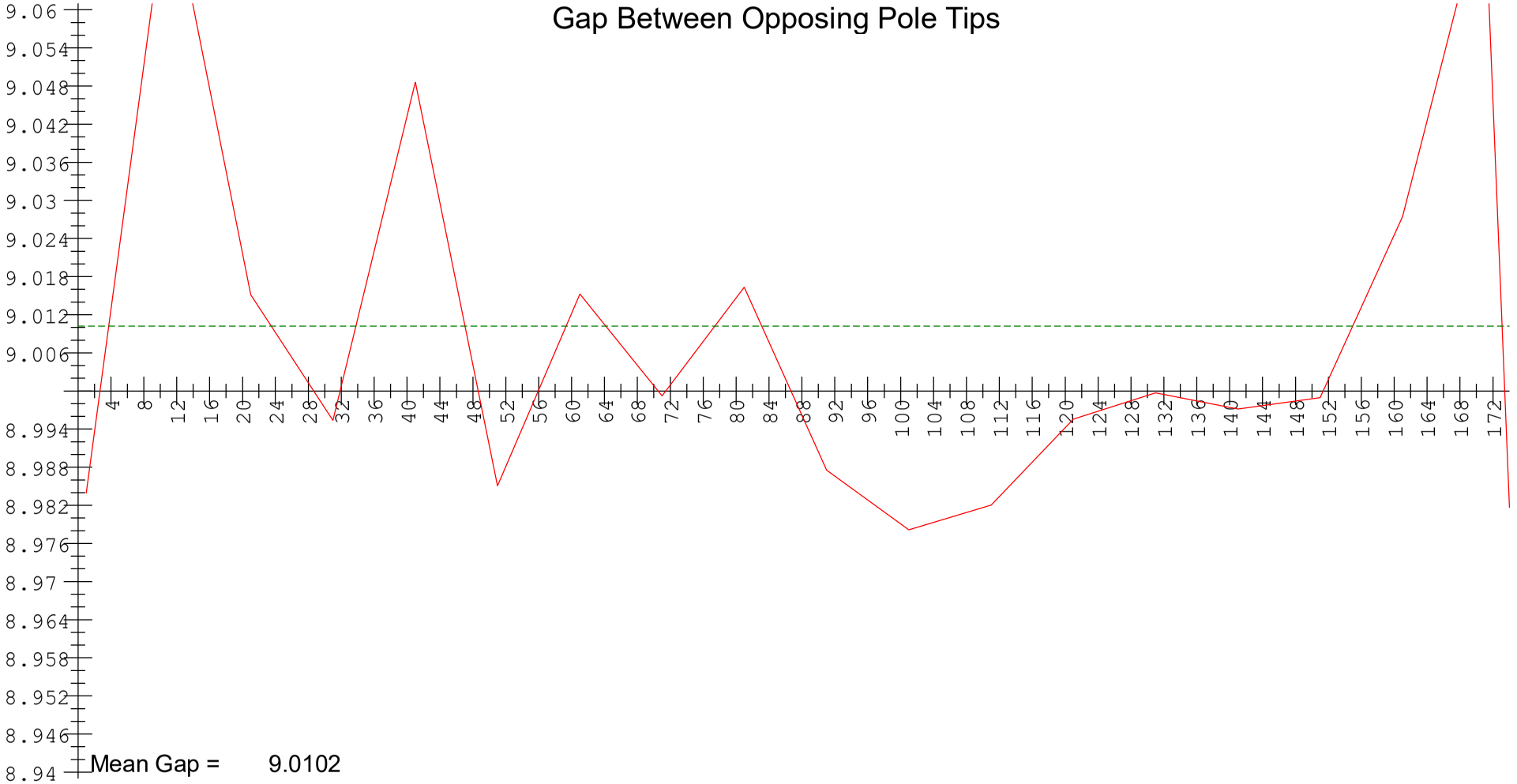
METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 9 Nominal Taper = 0.000

Gap Reading = 9.0000 US Encoder = 9.0000 DS Encoder = 9.0000

11-AUG-2021
S/N = 021
D/S= 0002
Run= 16



Step Between Measured Pole Tips = 10

Dimensions in mm

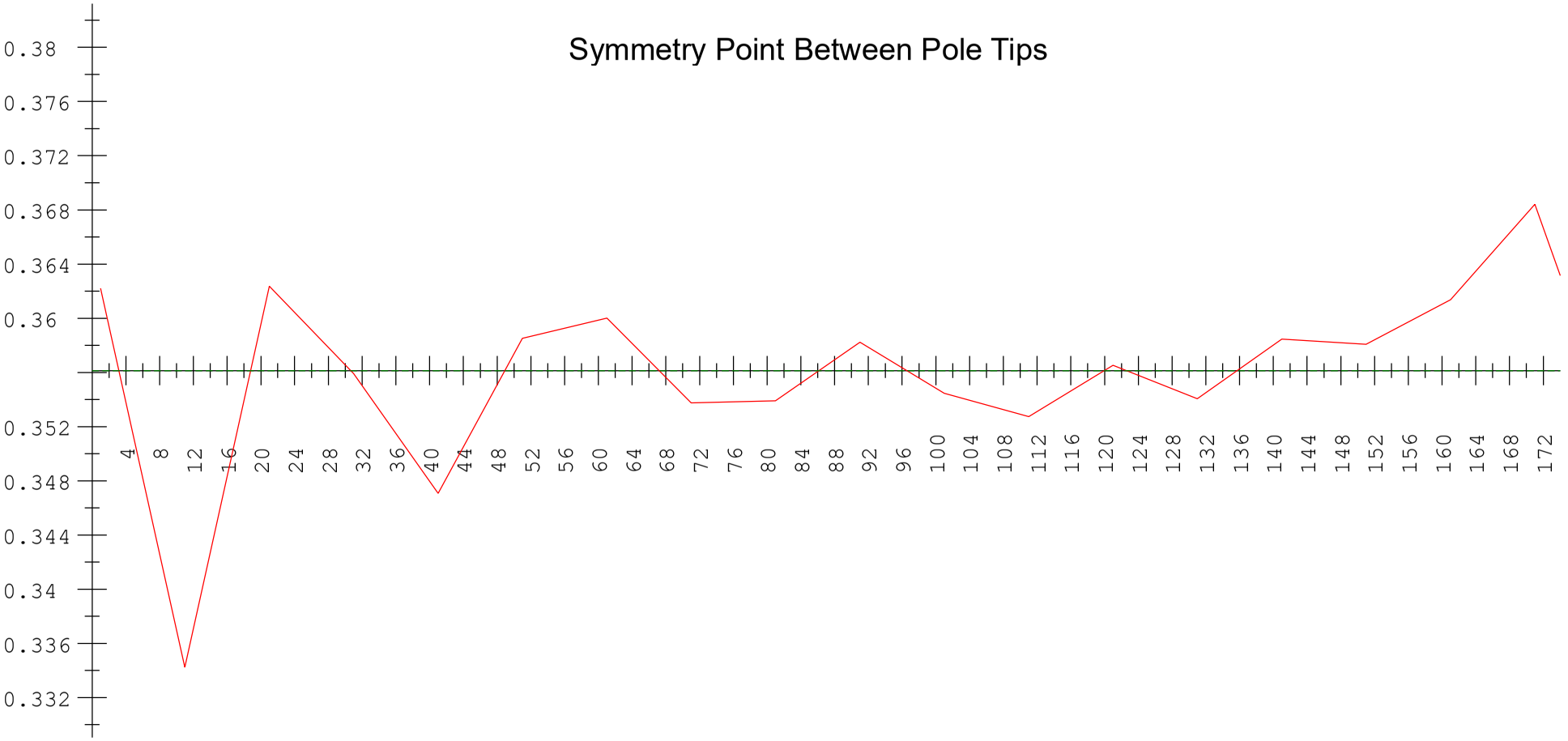
METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 9 Nominal Taper = 0.000

Gap Reading = 9.0000 US Encoder = 9.0000 DS Encoder = 9.0000

11-AUG-2021
S/N = 021
D/S= 0002
Run= 16



Mean Symmetry Value = 0.3561

Step Between Measured Pole Tips = 10

Dimensions in mm

METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 9 Nominal Taper = 0.000

Gap Reading = 9.0000 US Encoder = 9.0000 DS Encoder = 9.0000

11-AUG-2021
S/N = 021
D/S= 0002
Run= 16

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	4.8578	4.8591	4.8624	4.8637
Bottom	-4.1548	-4.1518	-4.1444	-4.1414
Gap	9.0126			9.0051
Taper				-0.0075

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
4.8612	-4.1490	9.0102	0.3561

Additional Calculated Values

Bottom Pole #1 Z Value	980.195
Top Jaw Pitch (mrad)	0.002
Bottom Jaw Pitch(mrad)	0.004
Minimum Effective Gap	8.971
Reference Block Gap	6.800

Dimensions in mm

METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 9 Nominal Taper = 0.000

Gap Reading = 9.0000 US Encoder = 9.0000 DS Encoder = 9.0000

11-AUG-2021
S/N = 021
D/S= 0002
Run= 16