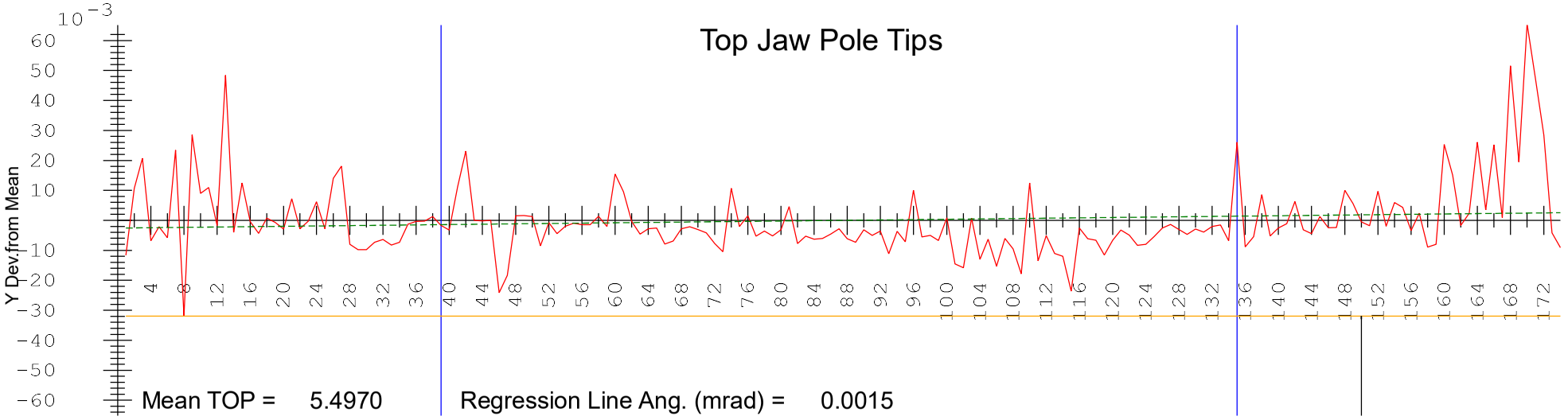
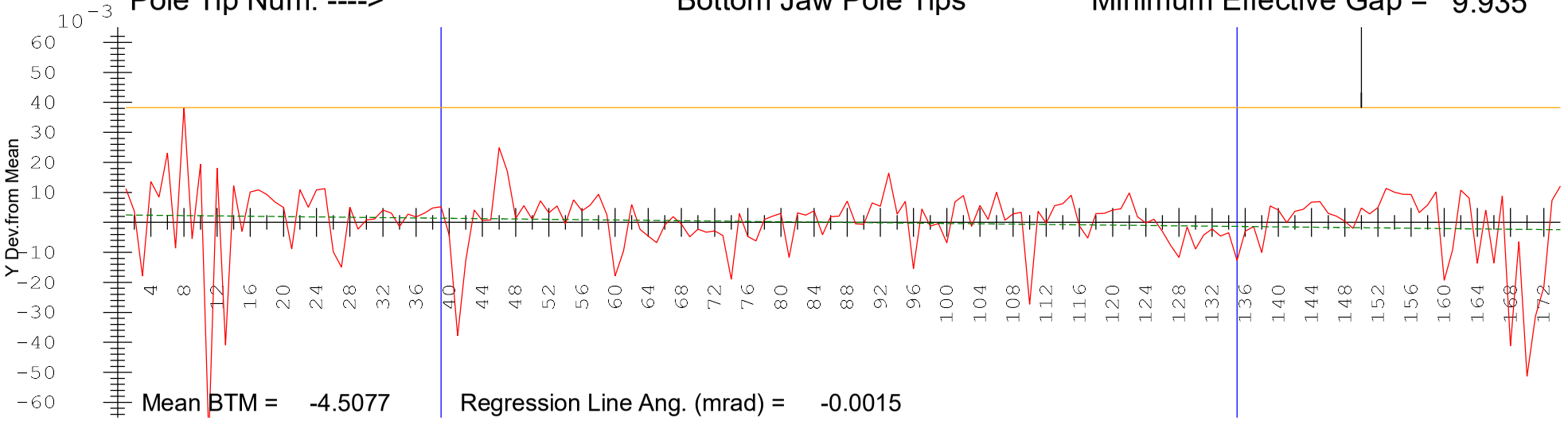


Pole Tip Num. ----> Bottom Jaw Pole Tips Minimum Effective Gap = 9.935



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 = 0.000

Gap Reading = 9.9996 US Encoder = 9.9997 DS Encoder = 9.9994

10-MAY-2021
S/N = 021
D/S= 0002
Run= 6

Step Between Measured Pole Tips = 1

Dimensions in mm

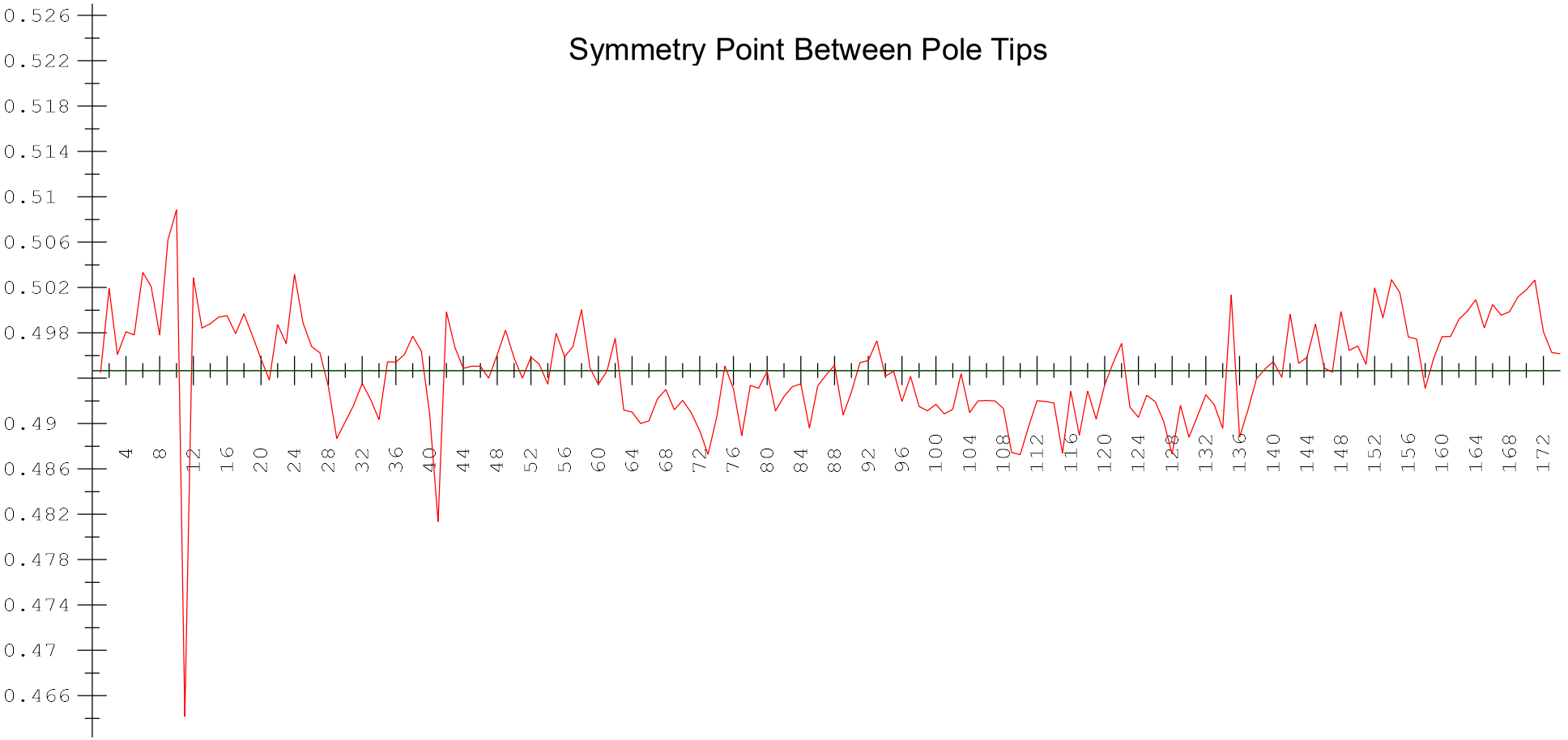
METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000

Gap Reading = 9.9996 US Encoder = 9.9997 DS Encoder = 9.9994

10-MAY-2021
S/N = 021
D/S= 0002
Run= 6



Mean Symmetry Value = 0.4947

Step Between Measured Pole Tips = 1

Dimensions in mm

METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000

Gap Reading = 9.9996 US Encoder = 9.9997 DS Encoder = 9.9994

10-MAY-2021
S/N = 021
D/S= 0002
Run= 6

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	5.4945	5.4956	5.4985	5.4996
Bottom	-4.5052	-4.5063	-4.5091	-4.5102
Gap	9.9997			10.0098
Taper				0.0101

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.4970	-4.5077	10.0048	0.4947

Additional Calculated Values

Bottom Pole #1 Z Value	980.211
Top Jaw Pitch (mrad)	0.002
Bottom Jaw Pitch(mrad)	-0.001
Minimum Effective Gap	9.935
Reference Block Gap	6.800

Dimensions in mm

METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000

Gap Reading = 9.9996 US Encoder = 9.9997 DS Encoder = 9.9994

10-MAY-2021
S/N = 021
D/S= 0002
Run= 6