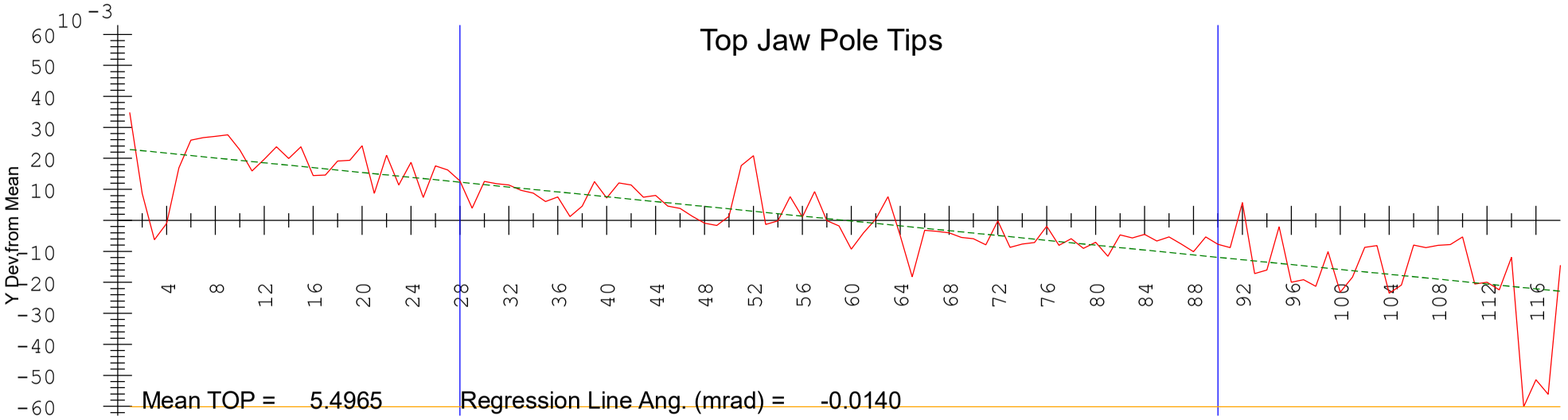
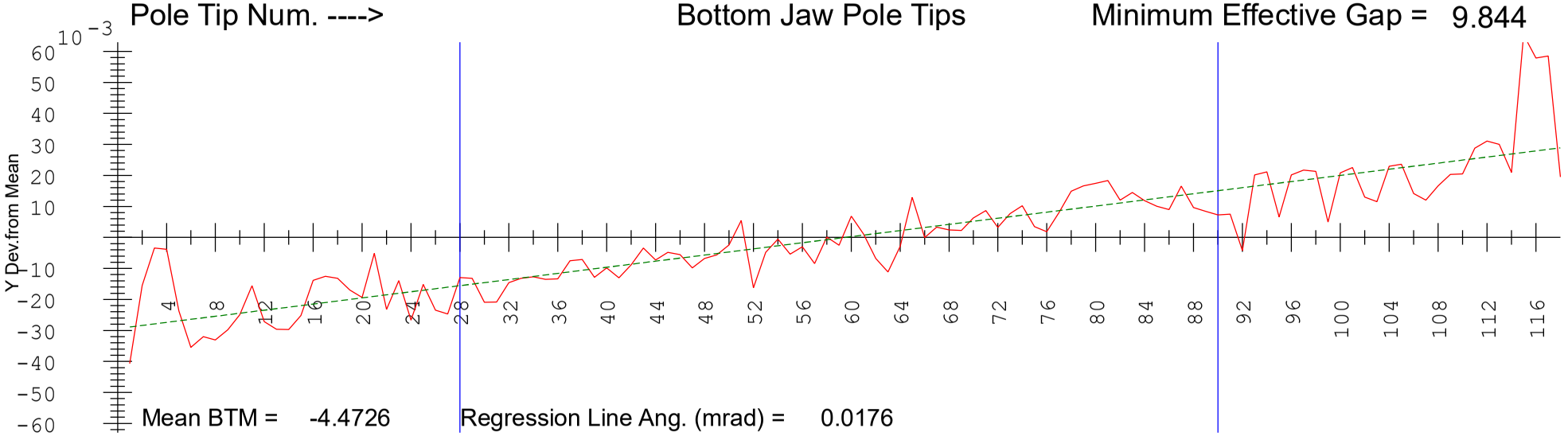




Y Value Scales Centered on Mean Values

Step Between Measured Pole Tips = 1

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

Dimensions in mm

METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = -0.100

Gap Reading = 9.9500 US Encoder = 10.0000 DS Encoder = 9.9000

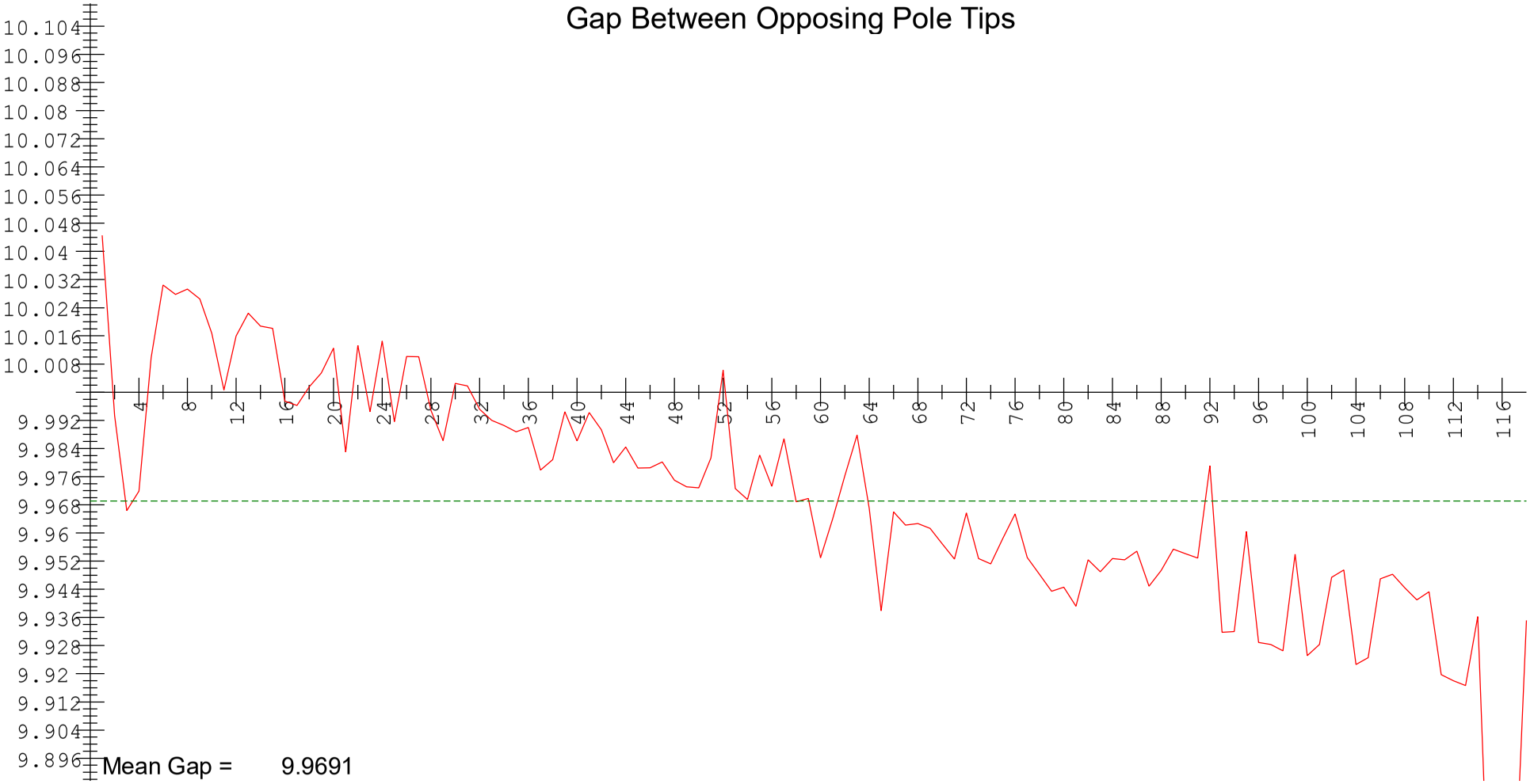
29-JAN-2026

S/N = 003

D/S= 0001

Run= 3

Gap Between Opposing Pole Tips



Mean Gap = 9.9691

Step Between Measured Pole Tips = 1

Dimensions in mm

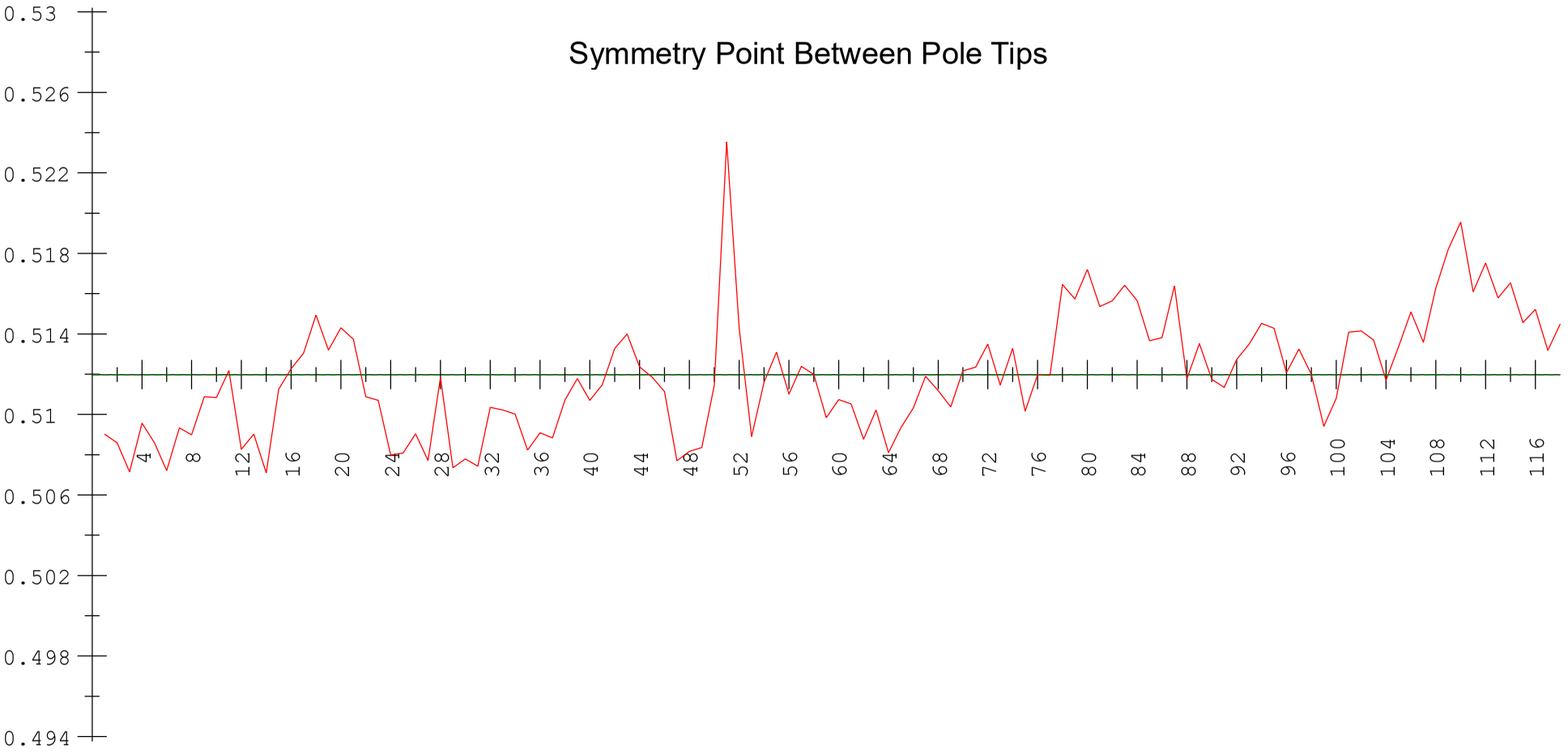
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = -0.100

Gap Reading = 9.9500 US Encoder = 10.0000 DS Encoder = 9.9000

29-JAN-2026
S/N = 003
D/S= 0001
Run= 3



Mean Symmetry Value = 0.5120

Step Between Measured Pole Tips = 1

Dimensions in mm

METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = -0.100

Gap Reading = 9.9500 US Encoder = 10.0000 DS Encoder = 9.9000

29-JAN-2026
S/N = 003
D/S= 0001
Run= 3

Top and Bottom Jaw
Regression Line Intersect Points

Jaw	First Pole (Pole 1)	US Actuator (Pole 28)	DS Actuator (Pole 90)	Last Pole (Pole 118)
Top	5.5194	5.5088	5.4846	5.4737
Bottom	-4.5015	-4.4881	-4.4575	-4.4437
Gap	10.0209			9.9173
Taper				-0.1035

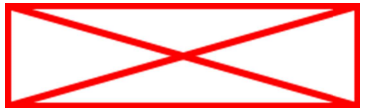
Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.4965	-4.4726	9.9691	0.5120

Additional Calculated Values

Bottom Pole #1 Z Value	978.729
Top Jaw Pitch (mrad)	-0.014
Bottom Jaw Pitch(mrad)	0.018
Minimum Effective Gap	9.844
Reference Block Gap	6.802

Dimensions in mm



METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = -0.100

Gap Reading = 9.9500 US Encoder = 10.0000 DS Encoder = 9.9000

29-JAN-2026
S/N = 003
D/S= 0001
Run= 3