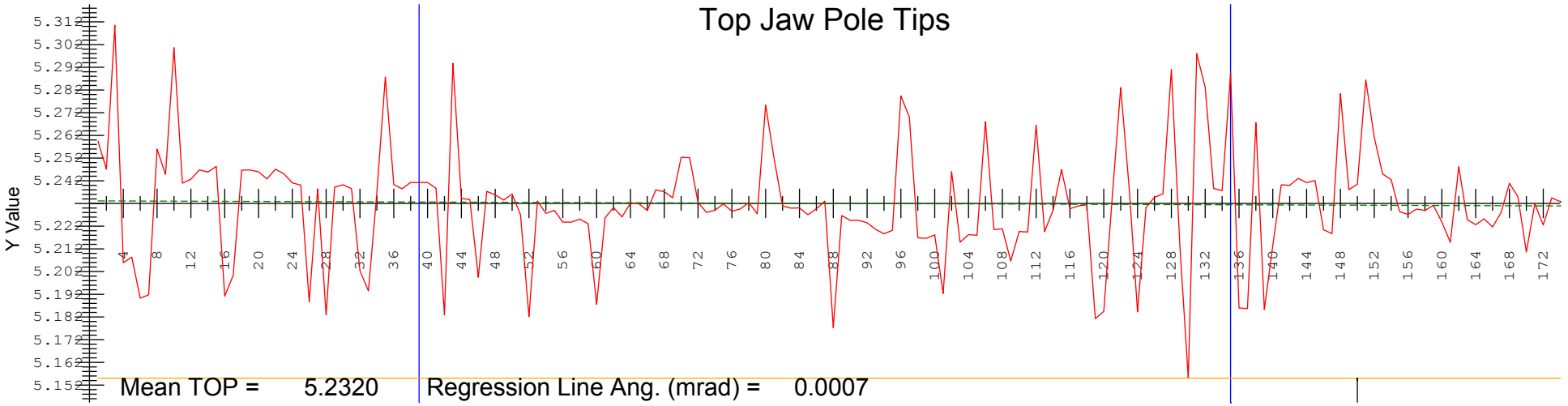
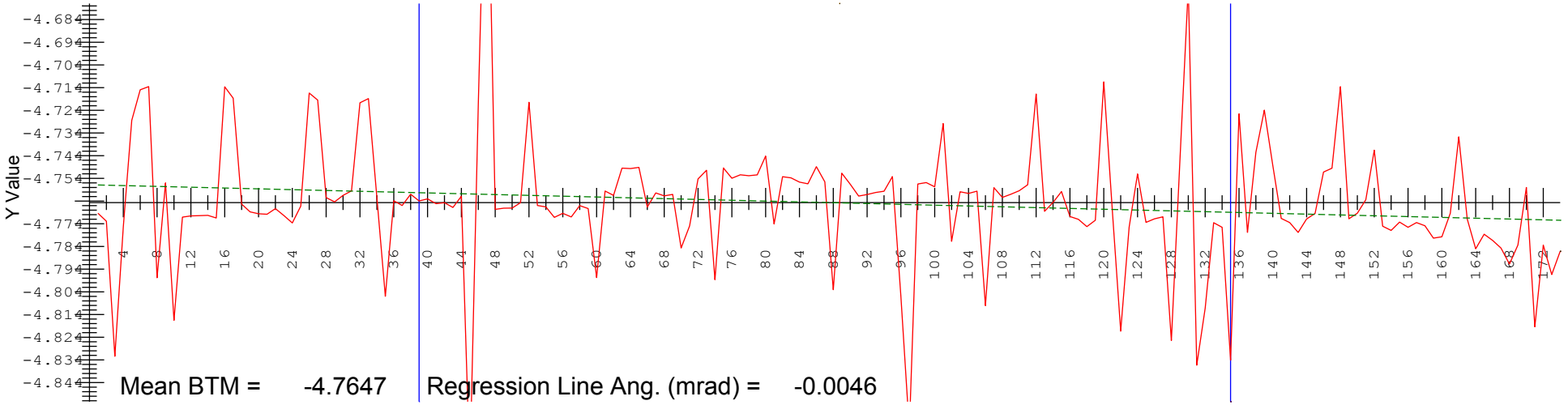



Pole Tip Num. ----> Bottom Jaw Pole Tips Minimum Effective Gap = 9.734




Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips = 1

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

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METROLOGY

# LCLS II - SXR Undulator

Nominal Gap = 10

Gap Reading = 9.9998 US Encoder = 10.0000 DS Encoder = 9.9996

20-FEB-2018
S/N = 005
D/S= 0001
Run= 09

## Gap Between Opposing Pole Tips


Mean Gap = 9.9967

Step Between Measured Pole Tips = 1

Dimensions in mm

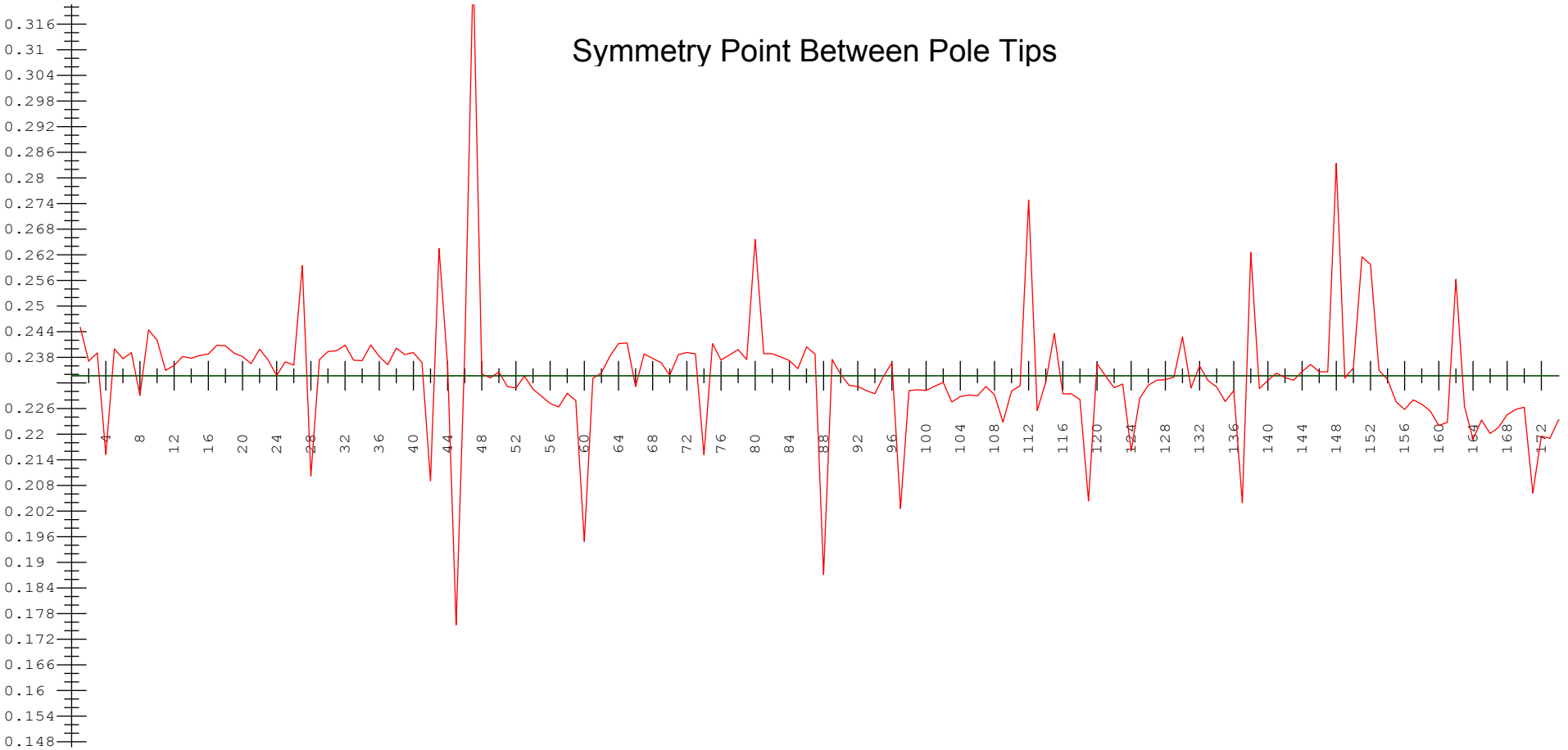
SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

# LCLS II - SXR Undulator

Nominal Gap = 10

Gap Reading = 9.9998 US Encoder = 10.0000 DS Encoder = 9.9996

20-FEB-2018
S/N = 005
D/S= 0001
Run= 09




Mean Symmetry Value = 0.2337

Step Between Measured Pole Tips = 1

Dimensions in mm

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METROLOGY

# LCLS II - SXR Undulator

Nominal Gap = 10

Gap Reading = 9.9998 US Encoder = 10.0000 DS Encoder = 9.9996

20-FEB-2018
S/N = 005
D/S= 0001
Run= 09

# 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 | 5.2331 | 5.2326 | 5.2314 | 5.2309 |
| Bottom | -4.7569 | -4.7603 | -4.7690 | -4.7725 |
| Gap | 9.9900 | | | 10.0034 |
| Taper | | | | 0.0134 |

# Summary of Mean Values

| Top Jaw Poles | Btm. Jaw Poles | Gap Values | Sym. Pt. Values |
|---|---|---|---|
| 5.2320 | -4.7647 | 9.9967 | 0.2337 |

# Additional Calculated Values

| | |
|---|---|
| Bottom Pole #1 Z Value | 979.292 |
| Top Jaw Pitch (mrad) | 0.001 |
| Bottom Jaw Pitch(mrad) | -0.005 |
| Minimum Effective Gap | 9.734 |
| Reference Block Gap | 6.807 |

Dimensions in mm

SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

## LCLS II - SXR Undulator

Nominal Gap = 10

Gap Reading = 9.9998 US Encoder = 10.0000 DS Encoder = 9.9996

20-FEB-2018
S/N = 005
D/S= 0001
Run= 09