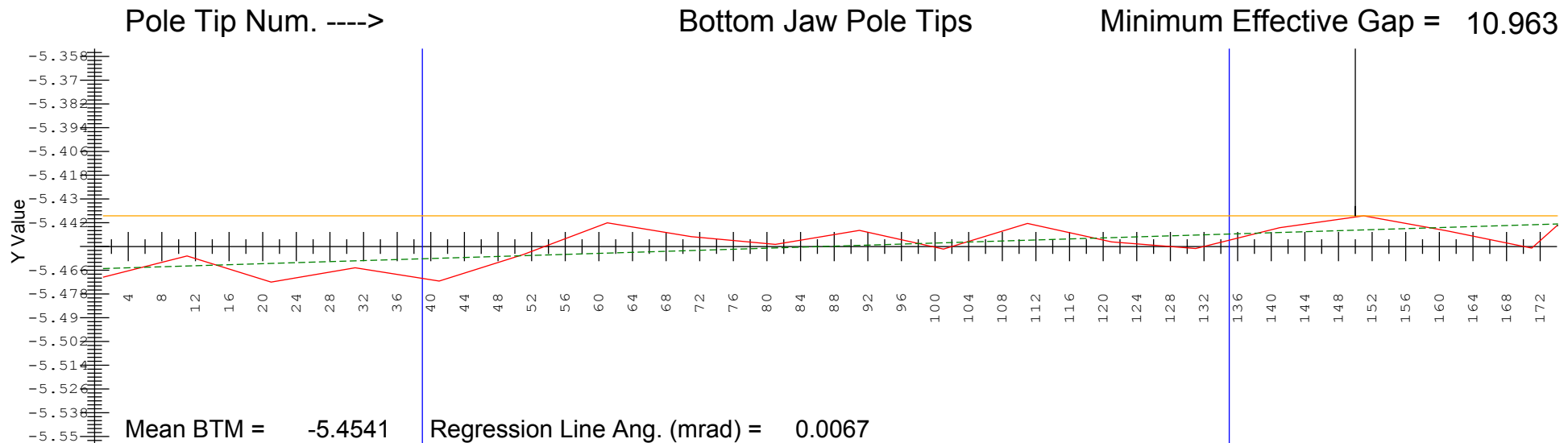
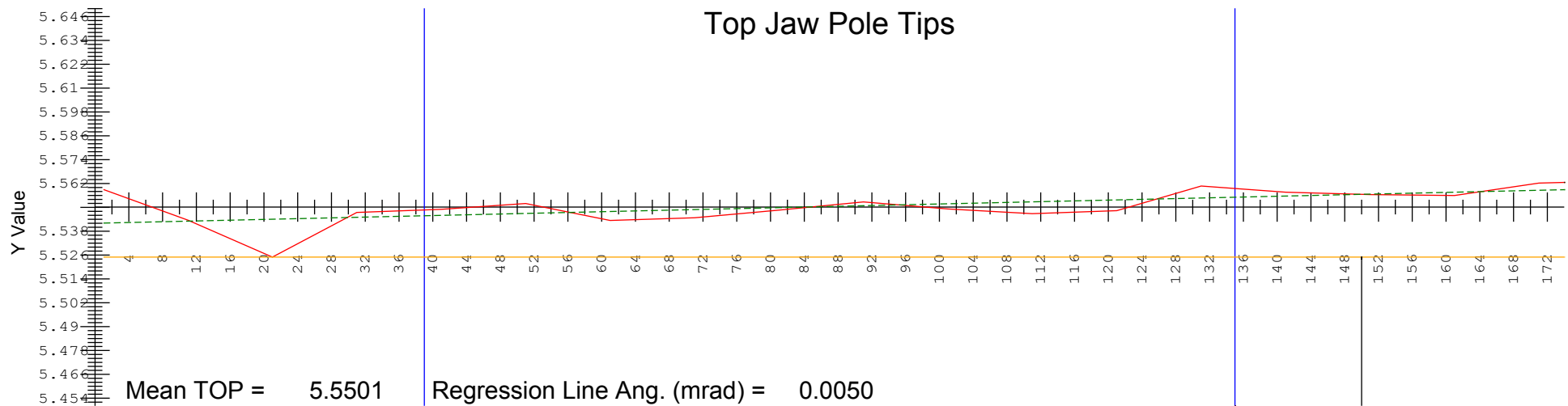




Y Value Scales Centered on Mean Values

Step Between Measured Pole Tips = 10

Regression Line Through Points =

Dimensions in mm



## LCLS II - SXR Undulator

Nominal Gap = 11

Gap Reading = 11.0000

US Encoder = 11.0001

DS Encoder = 11.0000

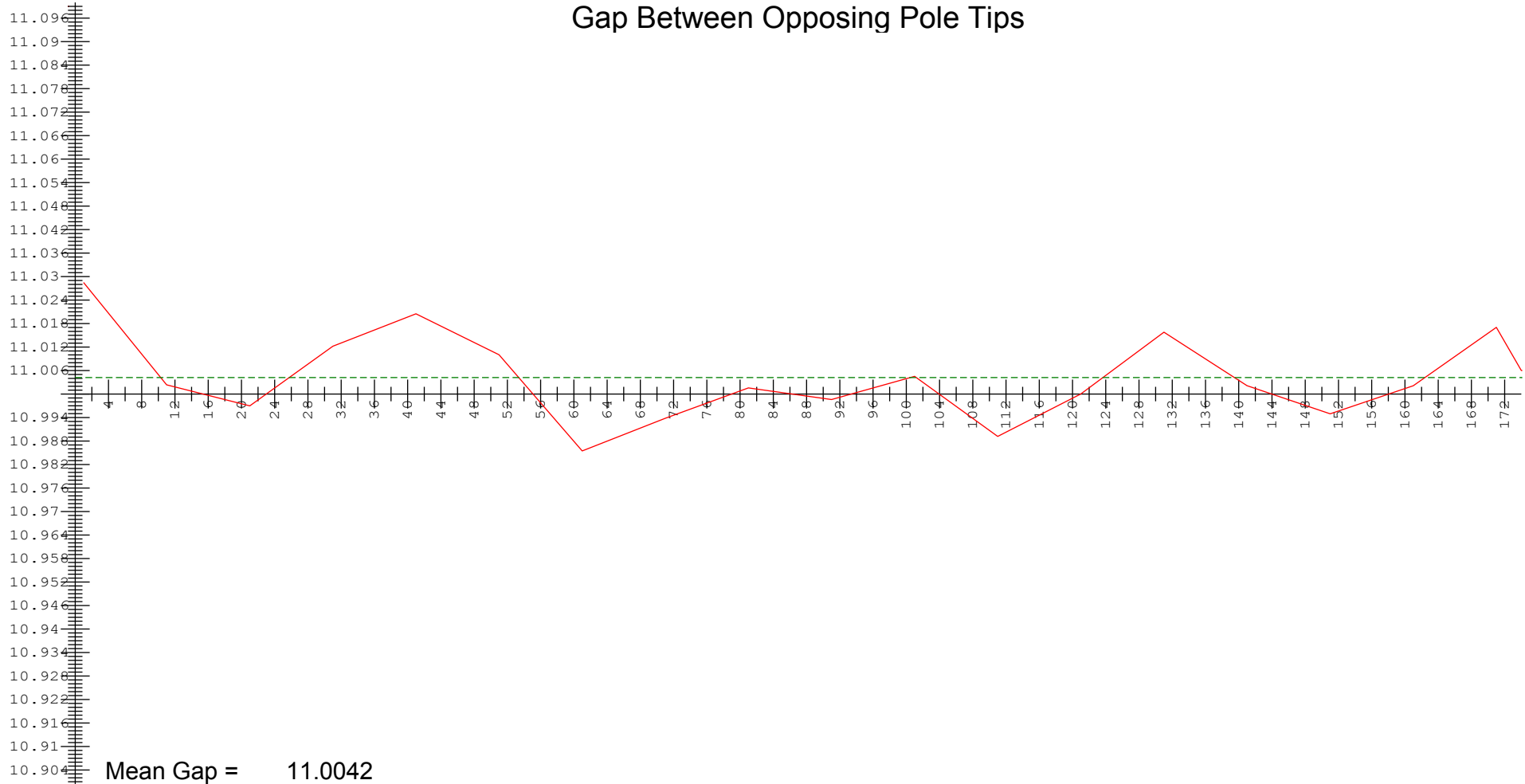
12-DEC-2017

S/N = 006

D/S = 0001

Run = 07

# Gap Between Opposing Pole Tips



Step Between Measured Pole Tips = 10

Dimensions in mm



## LCLS II - SXR Undulator

Nominal Gap = 11

Gap Reading = 11.0000

US Encoder = 11.0001

DS Encoder = 11.0000

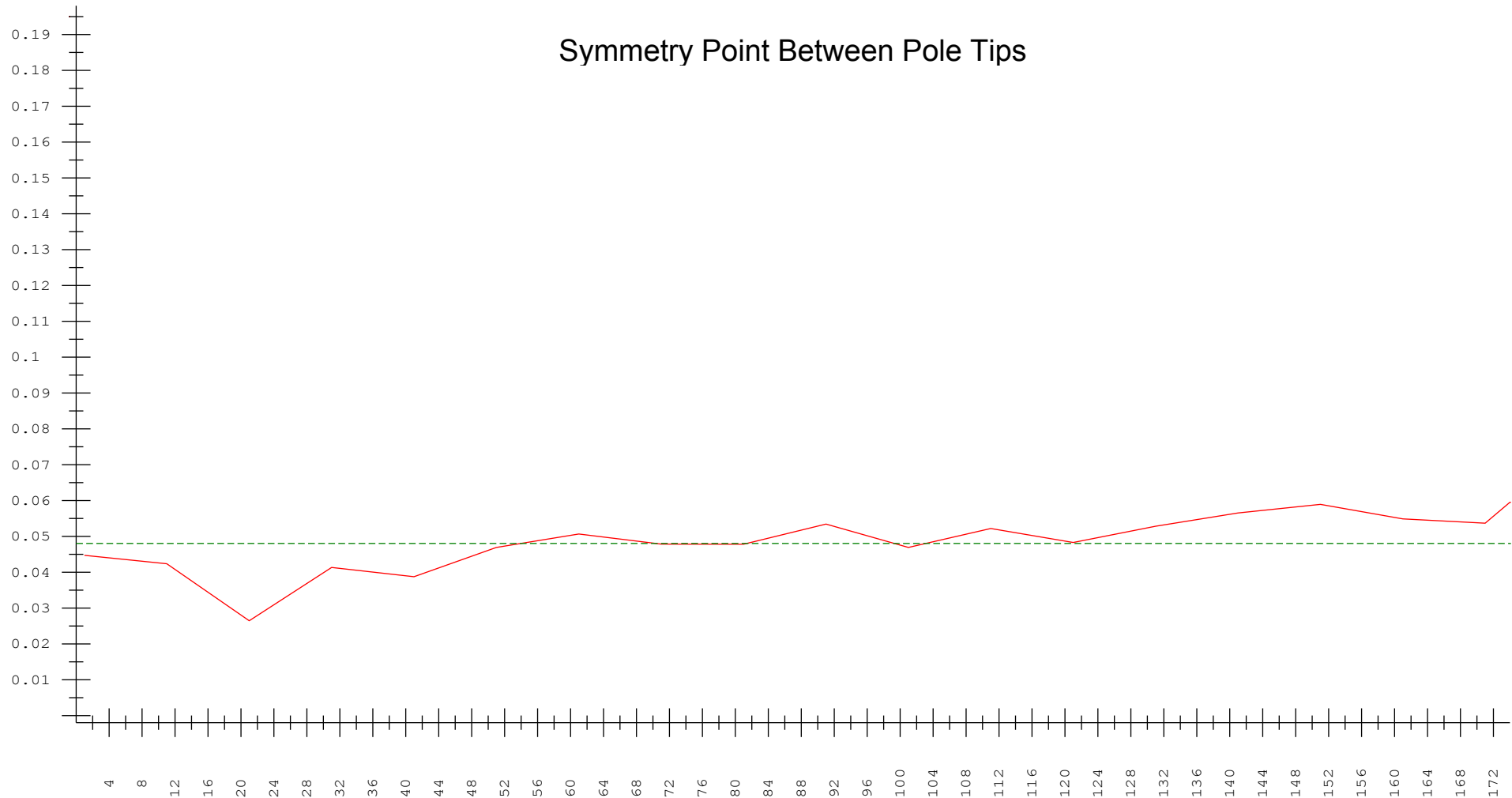
12-DEC-2017

S/N = 006

D/S = 0001

Run = 07

# Symmetry Point Between Pole Tips



Mean Symmetry Value = 0.0480

Step Between Measured Pole Tips = 10

Dimensions in mm



## LCLS II - SXR Undulator

Nominal Gap = 11

Gap Reading = 11.0000

US Encoder = 11.0001

DS Encoder = 11.0000

12-DEC-2017

S/N = 006

D/S = 0001

Run = 07

## Top and Bottom Jaw Regression Line Intersect Points

| Jaw    | First Pole<br>(Pole 1) | US Actuator<br>(Pole 39) | DS Actuator<br>(Pole 135) | Last Pole<br>(Pole 174) |
|--------|------------------------|--------------------------|---------------------------|-------------------------|
| Top    | 5.5421                 | 5.5458                   | 5.5551                    | 5.5589                  |
| Bottom | -5.4652                | -5.4602                  | -5.4477                   | -5.4427                 |

## Summary of Mean Values

| Top Jaw Poles | Btm. Jaw Poles | Gap Values | Sym. Pt. Values |
|---------------|----------------|------------|-----------------|
| 5.5501        | -5.4541        | 11.0042    | 0.0480          |

## Additional Calculated Values

|                        |         |
|------------------------|---------|
| Bottom Pole #1 Z Value | 979.309 |
| Top Jaw Pitch (mrad)   | 0.005   |
| Bottom Jaw Pitch(mrad) | 0.007   |
| Minimum Effective Gap  | 10.963  |
| Reference Block Gap    | 6.808   |

Dimensions in mm



### LCLS II - SXR Undulator

Nominal Gap = 11

Gap Reading = 11.0000    US Encoder = 11.0001    DS Encoder = 11.0000

12-DEC-2017  
S/N = 006  
D/S= 0001  
Run= 07