43.6
μm

Actual points : * * *   Neg. Deviation : ⎯⎯⎯   Pos. Deviation : ⎯⎯⎯

Notation : UNDULATOR   Producer :   Draw. No. :

Ser. No. : 09   Part No. :   Department:
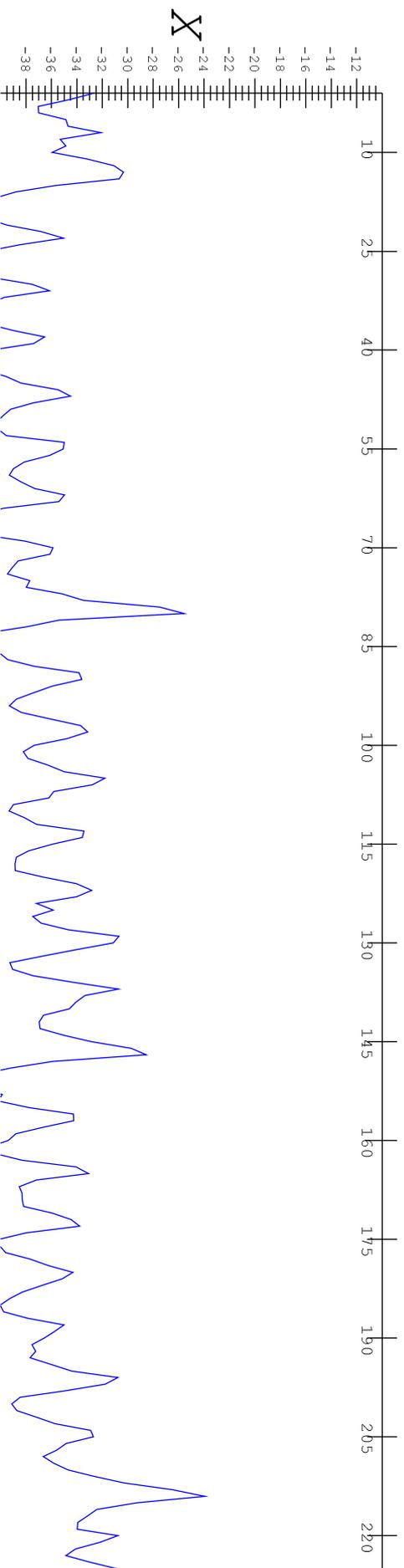
Element : PLA_B

		X	Y	Z	No.
Form ....: 0.0879	Neg. Deviat.: -0.0552	115.4786	96.9960	-3384.969	30
Error Magnif.: 3000	Pos. Deviat.: 0.0327	115.5696	90.5000	-1365.564	13
No. of points: 62					

MESSTECHNIK WETZLAR

FLATNESS
ISO 1101

Inspector :Quindos
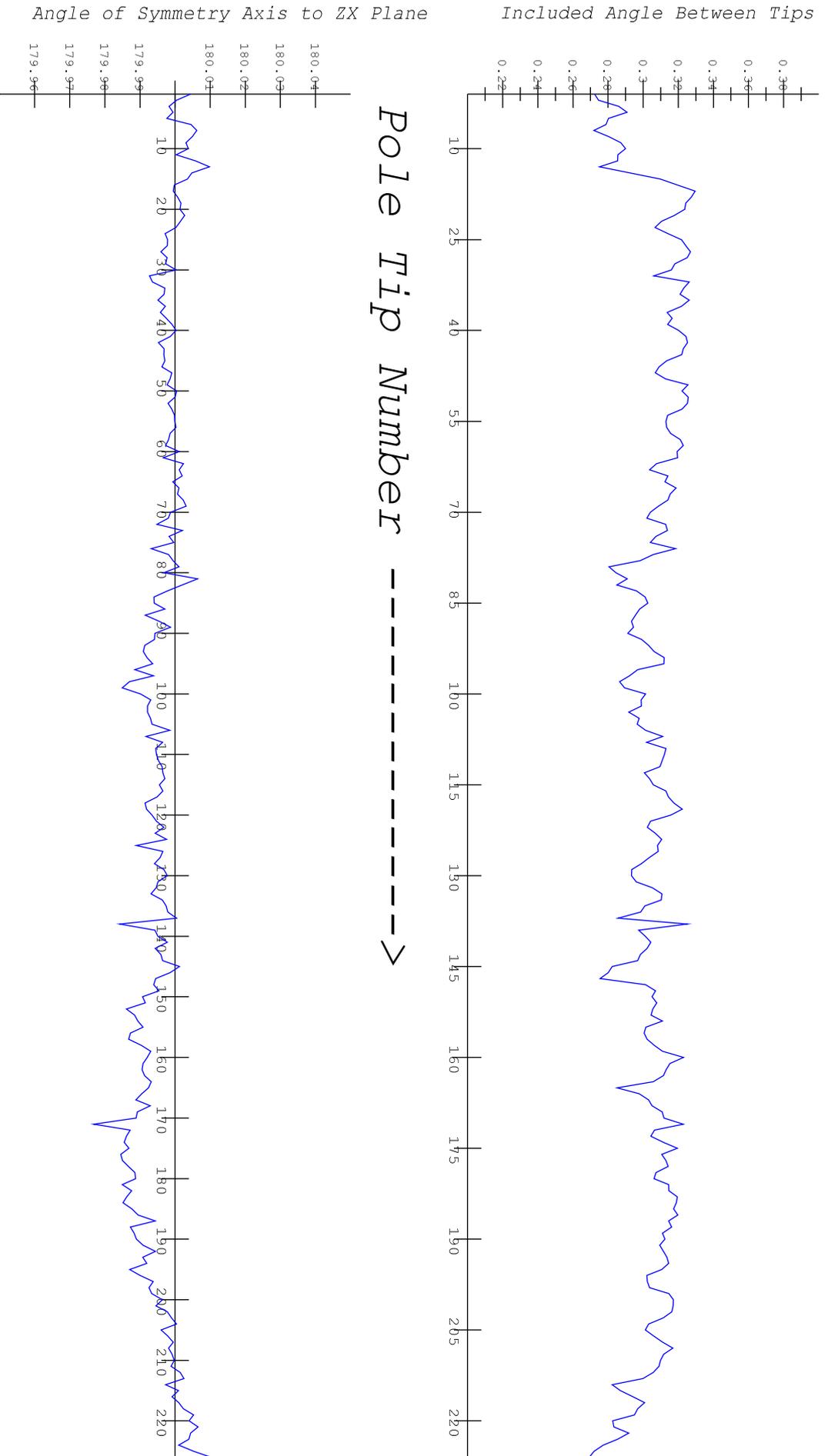Date ......:30-OCT-2007
Time ......:14:54:01

X

Pole Tip Number ----------->

Y
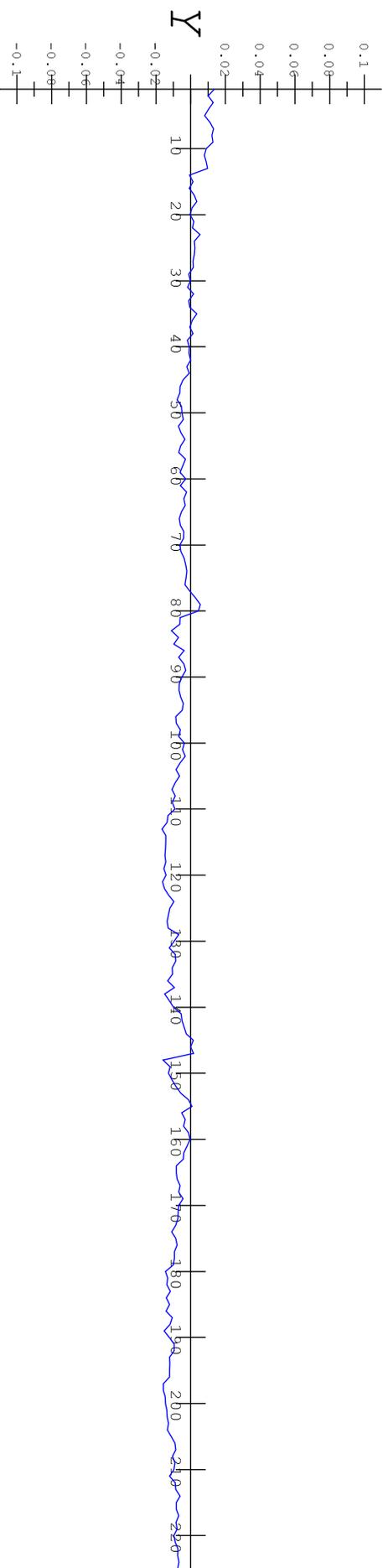
Offsets of Pole Tip Symmetry Point from Nominal Undulator center line
Pole Tip Symmetry Point is the point were the symmetry axis between tips is bisected by the 6.8mm cross section

SLAC
LCLS-MMF
LEITZ CMM

Undulator Pole Tip Offsets
Measured unrestrained

DATE:30-OCT-2007
UNDULATOR #09

Included Angle Between Tips

Angle of Symmetry Axis to ZX Plane
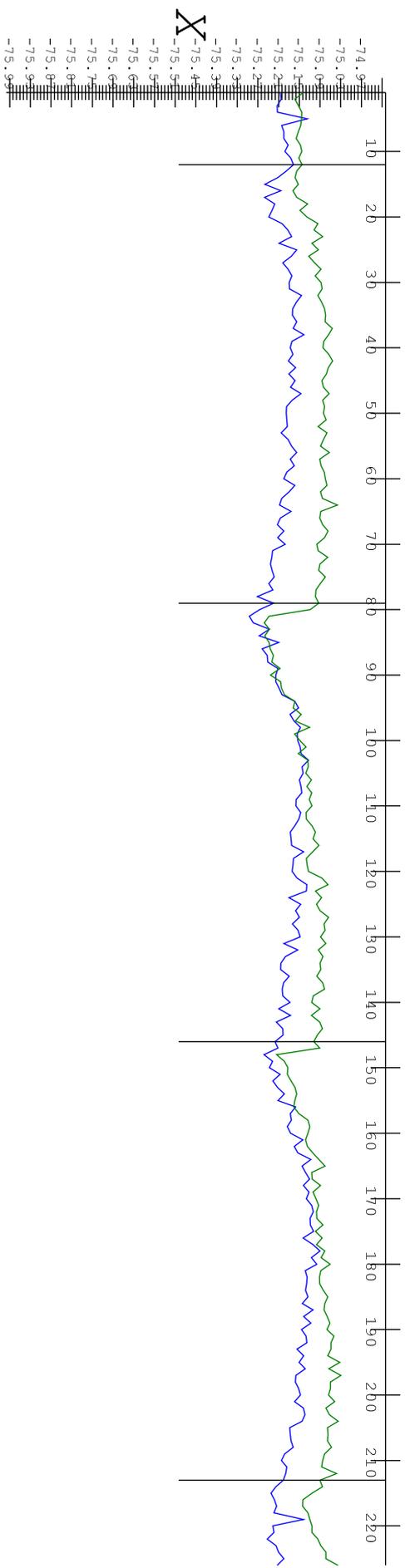
Pole Tip Number ------------->

Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
Included Angle is the angle between the Upper and Lower Pole Tips

SLAC
LCLS-MMF
LEITZ CMM

Undulator Pole Tip Angles
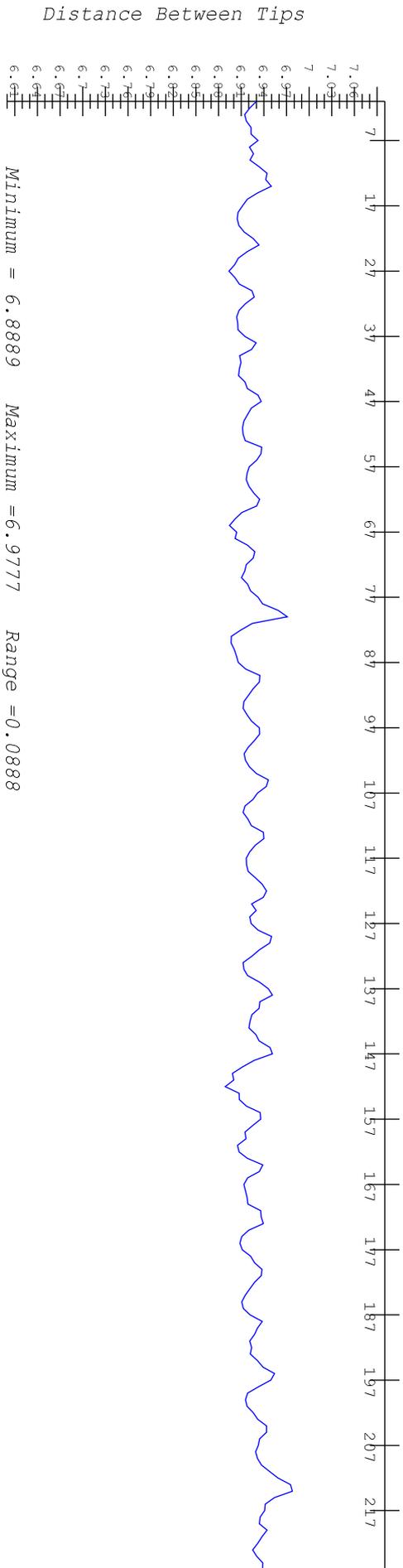Measured unrestrained

DATE:30-OCT-2007
UNDULATOR #09

Pole Tip Number — — — — — — — — >
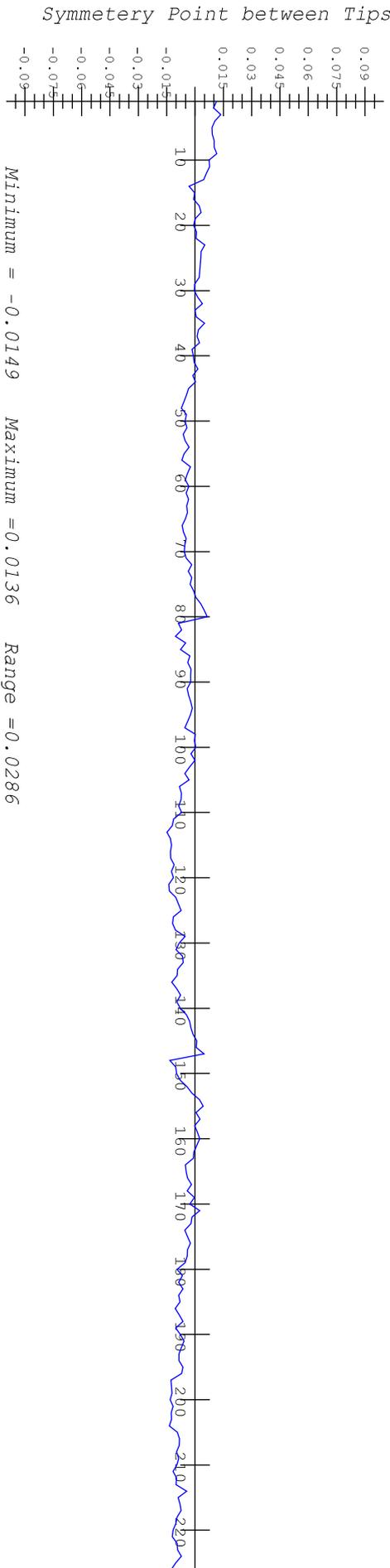
X

Green = Point on front face of Upper Pole Tip 10mm above Nominal C/L
Blue = Point on front face of Lower Pole Tip 10mm below Nominal C/L

SLAC
LCLS-MMF
LEITZ CMM

Undulator Pole Tip Location
Measured unrestrained

DATE:30-OCT-2007
UNDULATOR #09

Distance Between Tips

Minimum = 6.8889   Maximum =6.9777   Range =0.0888

Pole Tip Number ------------>

Symmetery Point between Tips

Minimum = -0.0149   Maximum =0.0136   Range =0.0286

Symmetry Point is the symmetry point between the Upper and Lower Pole Tips were they intersect a plane 53mm from Datum -B-
Distance Between Tips is the distance between the Upper and Lower Pole Tips were they intersect a plane 53mm from Datum -B-

SLAC
LCLS-MMF
LEITZ CMM

Undulator Pole Tip Location
Measured unrestrained

DATE:30-OCT-2007
UNDULATOR #09

Undulator Pole Tip Location
Measured unrestrained

DATE: 30-OCT-2007
UNDULATOR #09

Pole Tip Number -------------->

MINIMUM GAP = 6.8818

Pole Tip Location in Y

Minimum = 3.4381   Maximum = 3.4919   Range = 0.0537
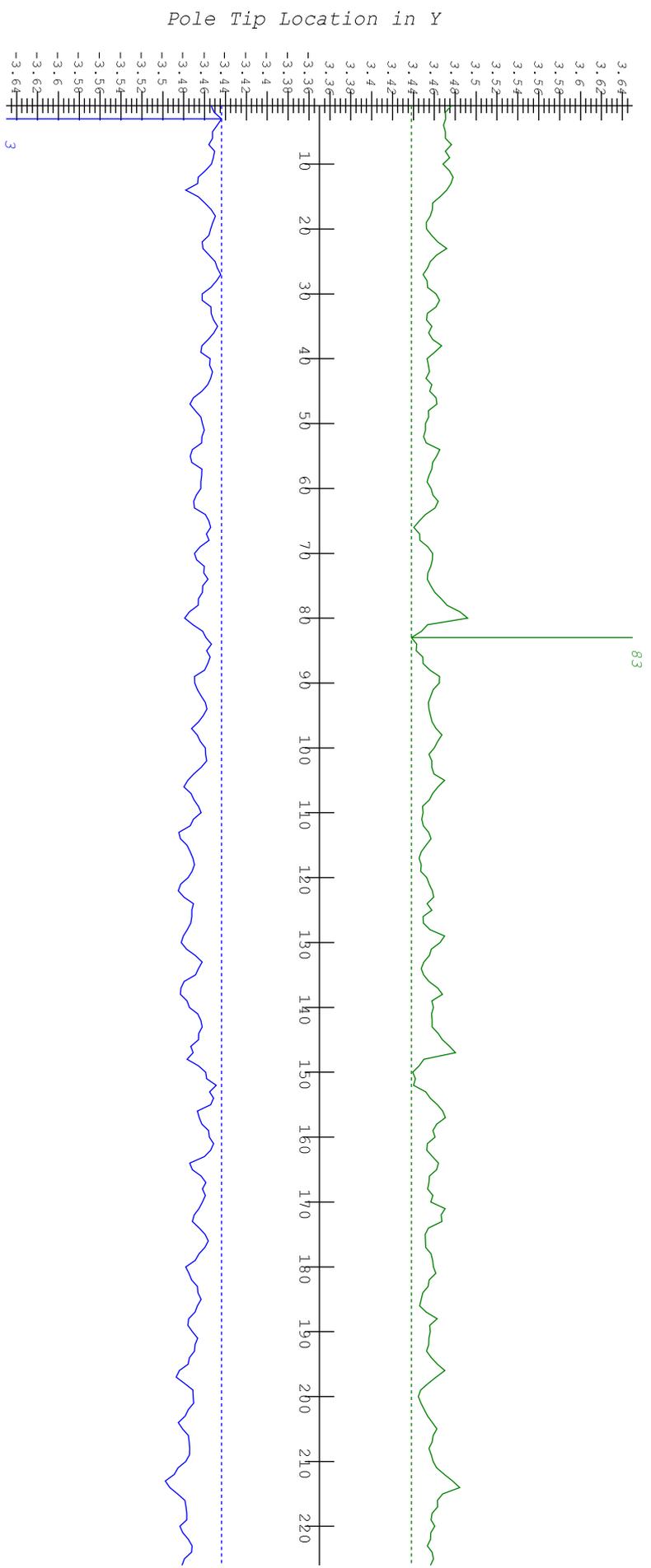
Minimum = -3.4977   Maximum = -3.4437   Range = 0.0541

Green = The position of the Upper Pole Tips at 53mm from Datum -B-
Blue = The position of the Lower Pole Tips at 53mm from Datum -B-
Min. Gap = The minimum gap between pole tips 53mm from Datum -B-