



S15-221

STORAGE RING MAGNET REPORT

Results

Date 15/08/2018

Hour 13:00:55

Temperature [°C] 23.281

Number of Measurements 9

Main Coil Current [A] (167.797 ± 0.002)

Trim Coil Current [A] (0 ± 0)

CH Coil Current [A] (0 ± 0)

CV Coil Current [A] (0 ± 0)

QS Coil Current [A] (0 ± 0)

Integrated Gradient [T/m] (-360.676 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (5.34 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (23.27 ± 0.04)

Roll [mrad] - (< ±0.3) (2.4 ± 0.3) × E-2

Electric Parameters

Inductance [mH] 3.157

Voltage [V] 6.0106

Resistance [mΩ] 35.82

Main Coil Number of Turns 11.25

n

Normalized
Normal
Multipoles
x=12.0 mm
[T.m⁽²⁻ⁿ⁾]

Normalized
Skew
Multipoles
x=12.0 mm
[T.m⁽²⁻ⁿ⁾]

1 (dipole) (-5.28 ± 0.04) × E-4 (-5.34 ± 0.04) × E-4

2 (quadrupole) (-8.91 ± 0.04) × E-4 (-3.879 ± 0.007) × E-3

3 (sextupole) (1.000000 ± 0.000009) (7.1 ± 1.0) × E-5

4 (-1.1 ± 0.8) × E-5 (2.89 ± 0.09) × E-4

5 (1.51 ± 0.08) × E-4 (-4 ± 1) × E-5

6 (7 ± 1) × E-5 (-2.1 ± 0.8) × E-5

7 (7.0 ± 0.9) × E-5 (4.1 ± 0.9) × E-5

8 (-4 ± 8) × E-6 (1 ± 1) × E-5

9 (-1.971 ± 0.009) × E-3 (1.78 ± 0.09) × E-4

10 (-8 ± 7) × E-6 (-4.1 ± 10.8) × E-6

11 (-2 ± 8) × E-6 (-1.0 ± 0.7) × E-5

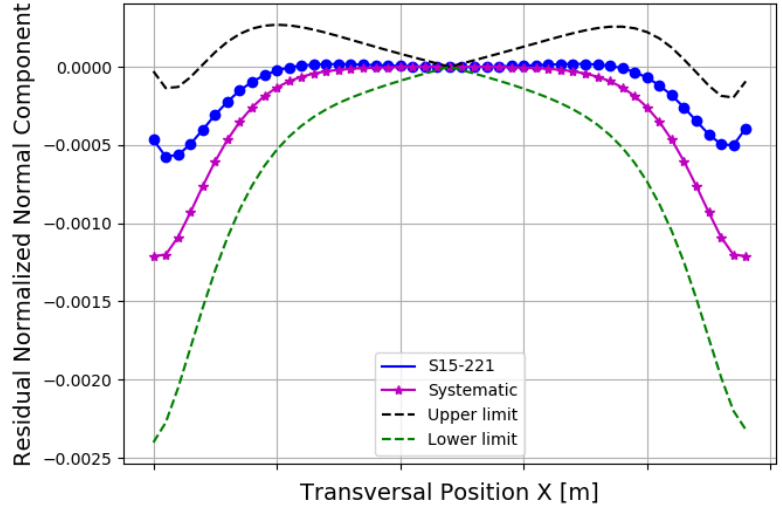
12 (-2 ± 8) × E-6 (2 ± 9) × E-6

13 (-4 ± 5) × E-6 (7 ± 5) × E-6

14 (-1.2 ± 0.7) × E-5 (-2 ± 1) × E-5

15 (1.327 ± 0.006) × E-3 (-6 ± 8) × E-6

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

