



S15-215

STORAGE RING MAGNET REPORT

Results

Date 24/07/2018

Hour 16:43:53

Temperature [°C] 23.557

Number of Measurements 9

Main Coil Current [A] (167.798 ± 0.001)

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] (-358.983 ± 0.004)

Magnet Center Offset X [μm] - (< ±40.0) (15.16 ± 0.07)

Magnet Center Offset Y [μm] - (< ±40.0) (33.32 ± 0.07)

Roll [mrad] - (< ±0.3) (-7 ± 8) × E-3

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) (-4.4 ± 0.1) × E-4 (-4.7 ± 0.1) × E-4

2 (quadrupole) (-2.53 ± 0.01) × E-3 (-5.55 ± 0.01) × E-3

3 (sextupole) (1.00000 ± 0.00001) (-2 ± 2) × E-5

4 (1.6 ± 0.2) × E-4 (3.0 ± 0.2) × E-4

5 (5.0 ± 0.2) × E-4 (3.2 ± 0.2) × E-4

6 (-2.7 ± 39.4) × E-6 (4 ± 3) × E-5

7 (1.4 ± 0.2) × E-4 (-6 ± 2) × E-5

8 (1 ± 2) × E-5 (5 ± 3) × E-5

9 (-1.97 ± 0.02) × E-3 (4.9 ± 0.4) × E-4

10 (5 ± 2) × E-5 (-7.3 ± 17.3) × E-6

11 (5.9 ± 16.9) × E-6 (-4 ± 2) × E-5

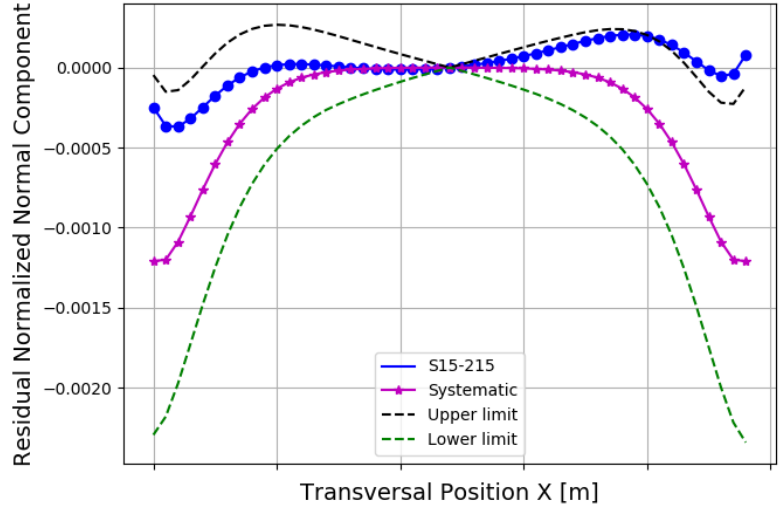
12 (-2 ± 3) × E-5 (-3 ± 3) × E-5

13 (-3 ± 3) × E-5 (1 ± 2) × E-5

14 (-4 ± 3) × E-5 (-3 ± 2) × E-5

15 (1.26 ± 0.02) × E-3 (5 ± 2) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

