



S15-115

STORAGE RING MAGNET REPORT

Results

Date 29/08/2018

Hour 09:07:39

Temperature [°C] 23.516

Number of Measurements 9

Main Coil Current [A] (167.7987 ± 0.0009)

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] (-359.654 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (11.87 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (28.5 ± 0.2)

Roll [mrad] - (< ±0.3) (-4 ± 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) (-7.68 ± 0.03) × E-4 (-3.5 ± 0.3) × E-4

2 (quadrupole) (-1.978 ± 0.003) × E-3 (-4.75 ± 0.03) × E-3

3 (sextupole) (1.000000 ± 0.000010) (-1 ± 2) × E-5

4 (-5 ± 4) × E-6 (2.2 ± 0.2) × E-4

5 (1.77 ± 0.06) × E-4 (1.3 ± 0.2) × E-4

6 (-6 ± 1) × E-5 (-3 ± 2) × E-5

7 (1.38 ± 0.05) × E-4 (-2 ± 2) × E-5

8 (2.9 ± 0.6) × E-5 (3 ± 2) × E-5

9 (-1.812 ± 0.008) × E-3 (4.9 ± 0.1) × E-4

10 (-9.9 ± 11.1) × E-6 (-1 ± 2) × E-5

11 (-3 ± 2) × E-5 (3 ± 2) × E-5

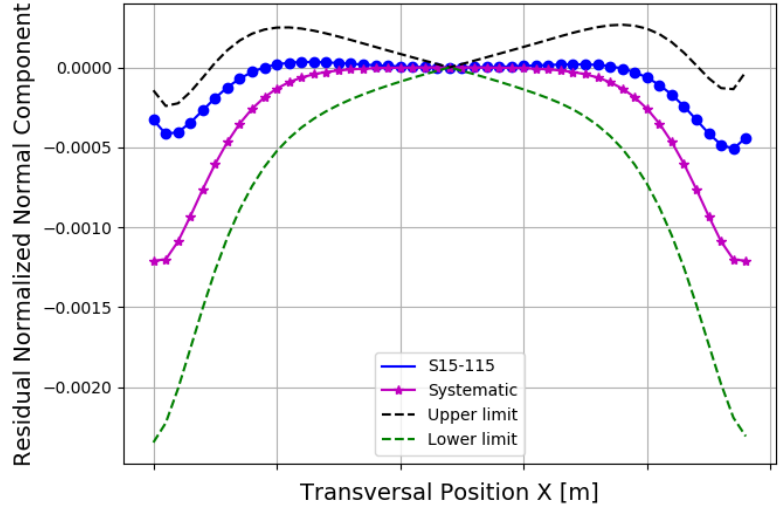
12 (1.8 ± 0.9) × E-5 (2 ± 3) × E-5

13 (-3.7 ± 0.8) × E-5 (-2 ± 2) × E-5

14 (-3 ± 1) × E-5 (-1 ± 1) × E-5

15 (1.18 ± 0.02) × E-3 (-2.7 ± 0.1) × E-4

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

