



S15-051

STORAGE RING MAGNET REPORT

Results

Date 11/07/2018

Hour 14:44:40

Temperature [°C] 22.98

Number of Measurements 9

Main Coil Current [A] (167.7980 ± 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] (-359.005 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (21.36 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (28.11 ± 0.05)

Roll [mrad] - (< ±0.3) (9.6 ± 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) (-3.81 ± 0.04) × E-4 (1.6 ± 0.8) × E-5

2 (quadrupole) (-3.561 ± 0.004) × E-3 (-4.686 ± 0.008) × E-3

3 (sextupole) (1.00000 ± 0.00001) (2.87 ± 0.10) × E-4

4 (2.4 ± 0.1) × E-4 (2.0 ± 0.1) × E-4

5 (3.22 ± 0.08) × E-4 (-3.2 ± 82.7) × E-7

6 (-4.6 ± 0.8) × E-5 (-7.8 ± 12.9) × E-6

7 (1.3 ± 0.1) × E-4 (-1.5 ± 0.9) × E-5

8 (2 ± 1) × E-5 (6 ± 1) × E-5

9 (-2.02 ± 0.02) × E-3 (3.3 ± 0.1) × E-4

10 (1 ± 1) × E-5 (-2.5 ± 18.9) × E-6

11 (7.8 ± 15.9) × E-6 (1 ± 1) × E-5

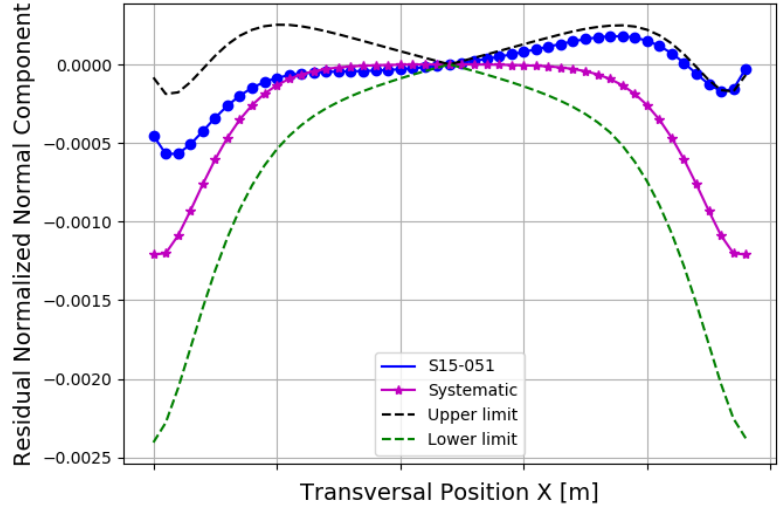
12 (-1 ± 1) × E-5 (-2 ± 1) × E-5

13 (-1.7 ± 0.9) × E-5 (1.3 ± 0.7) × E-5

14 (-2 ± 9) × E-6 (-7.0 ± 0.9) × E-5

15 (1.34 ± 0.01) × E-3 (-3.5 ± 1.0) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

