



S15-147

STORAGE RING MAGNET REPORT

Results

Date 07/07/2018

Hour 15:04:18

Temperature [°C] 23.641

Number of Measurements 9

Main Coil Current [A] (167.7988 ± 0.0006)

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] (-359.611 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (14.62 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (26.12 ± 0.05)

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) (-6.10 ± 0.06) × E-4 (-3.31 ± 0.09) × E-4

2 (quadrupole) (-2.437 ± 0.005) × E-3 (-4.353 ± 0.008) × E-3

3 (sextupole) (1.000000 ± 0.000010) (-7.3 ± 0.9) × E-5

4 (6.74 ± 0.05) × E-4 (2.0 ± 0.1) × E-4

5 (2.45 ± 0.09) × E-4 (8 ± 2) × E-5

6 (-1.2 ± 0.1) × E-4 (-1.6 ± 0.9) × E-5

7 (1.2 ± 0.1) × E-4 (-2 ± 9) × E-6

8 (4.3 ± 0.8) × E-5 (2.7 ± 0.9) × E-5

9 (-2.012 ± 0.006) × E-3 (2.1 ± 0.2) × E-4

10 (-1.9 ± 0.8) × E-5 (1 ± 1) × E-5

11 (2 ± 1) × E-5 (-1.1 ± 0.7) × E-5

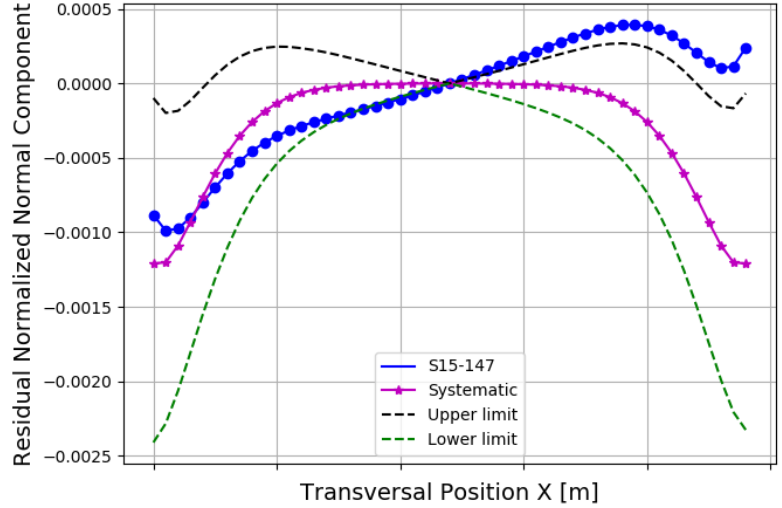
12 (8.9 ± 12.9) × E-6 (6.5 ± 46.9) × E-7

13 (-1.7 ± 0.7) × E-5 (7.9 ± 11.3) × E-6

14 (-2.7 ± 0.9) × E-5 (-4 ± 1) × E-5

15 (1.328 ± 0.009) × E-3 (-4 ± 1) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

