



S15-139

STORAGE RING MAGNET REPORT

Results

Date 04/07/2018

Hour 10:07:17

Temperature [°C] 23.665

Number of Measurements 9

Main Coil Current [A] (167.7978 ± 0.0008)

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] (-360.065 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (9.63 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (17.45 ± 0.07)

Roll [mrad] - (< ±0.3) (6.4 ± 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) (-6.92 ± 0.07) × E-4 (-7.49 ± 0.08) × E-4

2 (quadrupole) (-1.605 ± 0.005) × E-3 (-2.91 ± 0.01) × E-3

3 (sextupole) (1.000000 ± 0.000007) (1.91 ± 0.08) × E-4

4 (2.76 ± 0.08) × E-4 (-2.99 ± 0.09) × E-4

5 (3.74 ± 0.07) × E-4 (3.65 ± 0.10) × E-4

6 (-4 ± 1) × E-5 (-7 ± 8) × E-6

7 (1.39 ± 0.08) × E-4 (-9.2 ± 0.9) × E-5

8 (3.2 ± 0.7) × E-5 (3.5 ± 0.6) × E-5

9 (-2.017 ± 0.008) × E-3 (1.8 ± 0.1) × E-4

10 (3.0 ± 11.9) × E-6 (1.4 ± 0.7) × E-5

11 (9 ± 9) × E-6 (-3.5 ± 0.8) × E-5

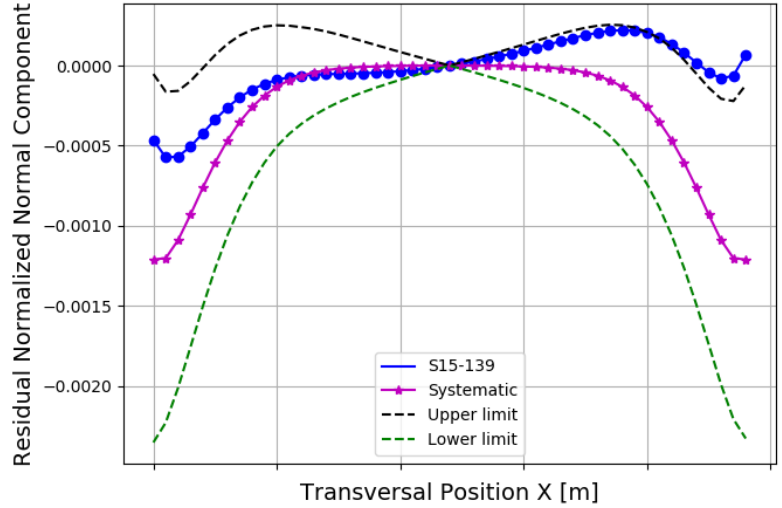
12 (5 ± 10) × E-6 (-7.6 ± 10.5) × E-6

13 (-1.8 ± 0.8) × E-5 (5 ± 8) × E-6

14 (-9 ± 7) × E-6 (-4 ± 1) × E-5

15 (1.31 ± 0.01) × E-3 (-7.5 ± 17.2) × E-6

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

