



S15-251

STORAGE RING MAGNET REPORT

Results

Date 27/07/2018

Hour 09:49:55

Temperature [°C] 23.532

Number of Measurements 9

Main Coil Current [A] (167.7983 ± 0.0007)

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] (-359.649 ± 0.004)

Magnet Center Offset X [μm] - (< ±40.0) (9.58 ± 0.06)

Magnet Center Offset Y [μm] - (< ±40.0) (25.8 ± 0.2)

Roll [mrad] - (< ±0.3) (-1.8 ± 1.0) × 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) (-5.23 ± 0.06) × E-4 (-10 ± 4) × E-5

2 (quadrupole) (-1.60 ± 0.01) × E-3 (-4.30 ± 0.04) × E-3

3 (sextupole) (1.00000 ± 0.00001) (-6 ± 3) × E-5

4 (6.2 ± 0.2) × E-4 (2 ± 4) × E-5

5 (8 ± 2) × E-5 (7 ± 3) × E-5

6 (-7 ± 4) × E-5 (-9.4 ± 24.2) × E-6

7 (2 ± 2) × E-5 (-3 ± 4) × E-5

8 (6 ± 3) × E-5 (5 ± 4) × E-5

9 (-1.89 ± 0.02) × E-3 (5.6 ± 0.3) × E-4

10 (-2 ± 2) × E-5 (-5 ± 3) × E-5

11 (6.1 ± 27.3) × E-6 (2 ± 3) × E-5

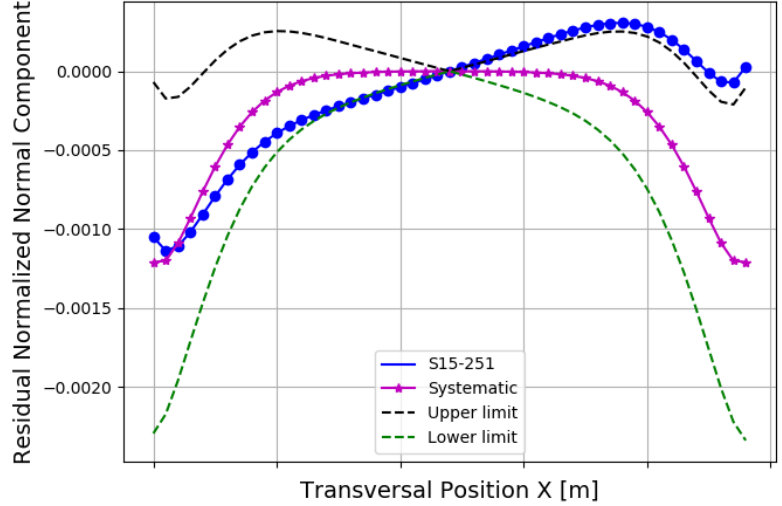
12 (-2.55 ± 238.60) × E-7 (-1 ± 3) × E-5

13 (2 ± 3) × E-5 (7.5 ± 26.0) × E-6

14 (-4 ± 4) × E-5 (-3 ± 2) × E-5

15 (1.25 ± 0.02) × E-3 (9 ± 4) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

