



S15-253

STORAGE RING MAGNET REPORT

Results

Date 12/07/2018

Hour 15:26:31

Temperature [°C] 23.074

Number of Measurements 9

Main Coil Current [A] (167.7977 ± 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] (-359.647 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (18.33 ± 0.04)

Magnet Center Offset Y [μm] - (< ±40.0) (25.83 ± 0.04)

Roll [mrad] - (< ±0.3) (1.3 ± 0.4) × 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) (-4.65 ± 0.03) × E-4 (-2.57 ± 0.06) × E-4

2 (quadrupole) (-3.055 ± 0.006) × E-3 (-4.305 ± 0.006) × E-3

3 (sextupole) (1.00000 ± 0.00001) (4 ± 1) × E-5

4 (-1.1 ± 0.6) × E-5 (3.3 ± 0.1) × E-4

5 (6.0 ± 0.7) × E-5 (-1.04 ± 0.10) × E-4

6 (1 ± 1) × E-5 (-1.7 ± 0.9) × E-5

7 (7 ± 1) × E-5 (-2.0 ± 15.9) × E-6

8 (-1.7 ± 14.4) × E-6 (4.5 ± 26.9) × E-6

9 (-1.92 ± 0.02) × E-3 (4.7 ± 0.2) × E-4

10 (9 ± 7) × E-6 (3.2 ± 17.8) × E-6

11 (-3 ± 1) × E-5 (-2 ± 1) × E-5

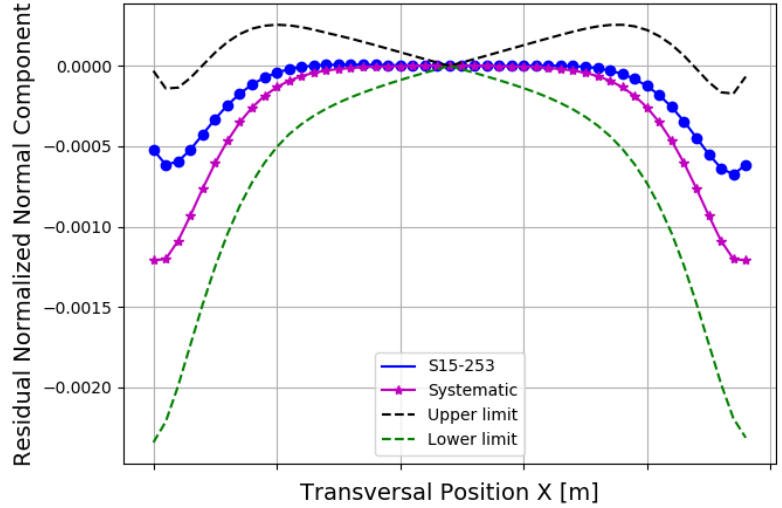
12 (-4 ± 2) × E-5 (1 ± 1) × E-5

13 (-2 ± 1) × E-5 (1 ± 1) × E-5

14 (-2 ± 1) × E-5 (-3 ± 3) × E-5

15 (1.27 ± 0.02) × E-3 (3 ± 2) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

