



S15-270

STORAGE RING MAGNET REPORT

Results

Date 28/08/2018

Hour 09:26:17

Temperature [°C] 23.526

Number of Measurements 9

Main Coil Current [A] (167.798 ± 0.001)

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] (-359.772 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (9.09 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (27.77 ± 0.06)

Roll [mrad] - (< ±0.3) (4.6 ± 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) (-5.65 ± 0.04) × E-4 (-7.6 ± 0.1) × E-4

2 (quadrupole) (-1.514 ± 0.004) × E-3 (-4.628 ± 0.010) × E-3

3 (sextupole) (1.000000 ± 0.000010) (1.37 ± 0.09) × E-4

4 (1.01 ± 0.05) × E-4 (-2 ± 1) × E-5

5 (3.60 ± 0.05) × E-4 (2.3 ± 0.1) × E-4

6 (-2.2 ± 0.4) × E-5 (-1.2 ± 0.9) × E-5

7 (1.43 ± 0.05) × E-4 (-2.2 ± 0.6) × E-5

8 (2.0 ± 0.4) × E-5 (5 ± 1) × E-5

9 (-1.882 ± 0.009) × E-3 (2.51 ± 0.08) × E-4

10 (-2.8 ± 0.9) × E-5 (-1 ± 1) × E-5

11 (-1 ± 1) × E-5 (-2 ± 1) × E-5

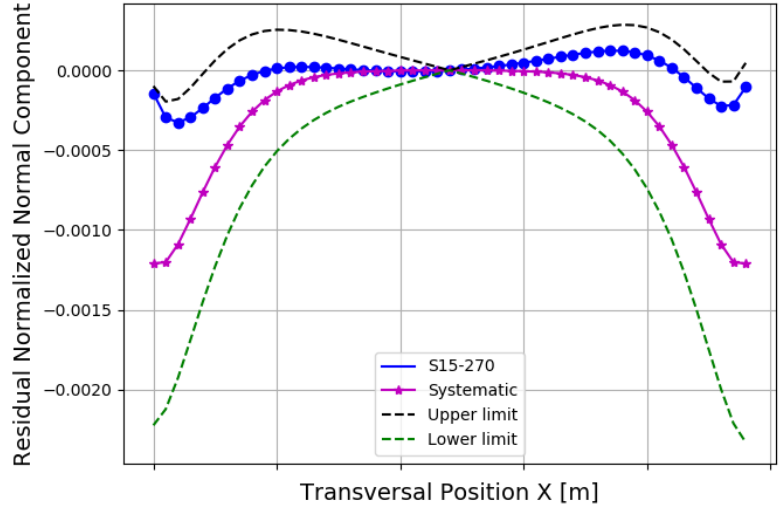
12 (-2 ± 1) × E-5 (2.1 ± 0.9) × E-5

13 (-2.8 ± 1.0) × E-5 (7.4 ± 10.7) × E-6

14 (-2.8 ± 0.8) × E-5 (-4.3 ± 1.0) × E-5

15 (1.29 ± 0.01) × E-3 (-10 ± 1) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

