



S15-259

STORAGE RING MAGNET REPORT

Results

Date 10/07/2018

Hour 16:33:52

Temperature [°C] 23.733

Number of Measurements 9

Main Coil Current [A] (167.799 ± 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] (-359.666 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (9.17 ± 0.05)

Magnet Center Offset Y [μm] - (< ±40.0) (24.90 ± 0.08)

Roll [mrad] - (< ±0.3) (-5 ± 6) × E-3

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) (-7.52 ± 0.04) × E-4 (7.0 ± 0.2) × E-4

2 (quadrupole) (-1.529 ± 0.008) × E-3 (-4.15 ± 0.01) × E-3

3 (sextupole) (1.00000 ± 0.00001) (-1 ± 2) × E-5

4 (1.6 ± 0.1) × E-4 (2 ± 2) × E-5

5 (1.4 ± 0.1) × E-4 (-1.9 ± 0.2) × E-4

6 (1.4 ± 0.2) × E-4 (-3 ± 2) × E-5

7 (6 ± 2) × E-5 (3.0 ± 16.3) × E-6

8 (2 ± 1) × E-5 (4 ± 2) × E-5

9 (-2.00 ± 0.02) × E-3 (4.1 ± 0.2) × E-4

10 (-1 ± 2) × E-5 (-3.2 ± 19.6) × E-6

11 (1 ± 1) × E-5 (1 ± 2) × E-5

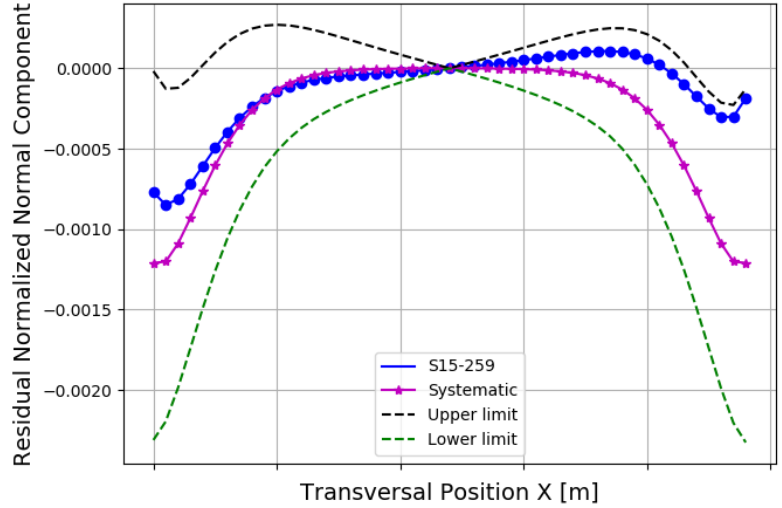
12 (-9.4 ± 18.3) × E-6 (-3.0 ± 24.0) × E-6

13 (-2 ± 3) × E-5 (4.1 ± 15.3) × E-6

14 (-7.0 ± 14.6) × E-6 (-4 ± 2) × E-5

15 (1.32 ± 0.01) × E-3 (-6 ± 2) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

