



S15-135

STORAGE RING MAGNET REPORT

Results

Date 14/08/2018

Hour 12:53:44

Temperature [°C] 23.476

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] (-360.016 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (9.33 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (19.96 ± 0.04)

Roll [mrad] - (< ±0.3) (9.7 ± 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) (-5.16 ± 0.05) × E-4 (-1.44 ± 0.07) × E-4

2 (quadrupole) (-1.555 ± 0.004) × E-3 (-3.327 ± 0.007) × E-3

3 (sextupole) (1.000000 ± 0.000007) (2.91 ± 0.08) × E-4

4 (-3.2 ± 0.5) × E-5 (5.9 ± 0.8) × E-5

5 (1.35 ± 0.06) × E-4 (1.04 ± 0.07) × E-4

6 (5 ± 4) × E-6 (-2 ± 7) × E-6

7 (3.9 ± 0.6) × E-5 (-3.6 ± 0.8) × E-5

8 (2.3 ± 0.7) × E-5 (2.5 ± 0.8) × E-5

9 (-1.970 ± 0.008) × E-3 (1.80 ± 0.08) × E-4

10 (1.4 ± 0.5) × E-5 (-7 ± 9) × E-6

11 (1.3 ± 0.8) × E-5 (-9 ± 8) × E-6

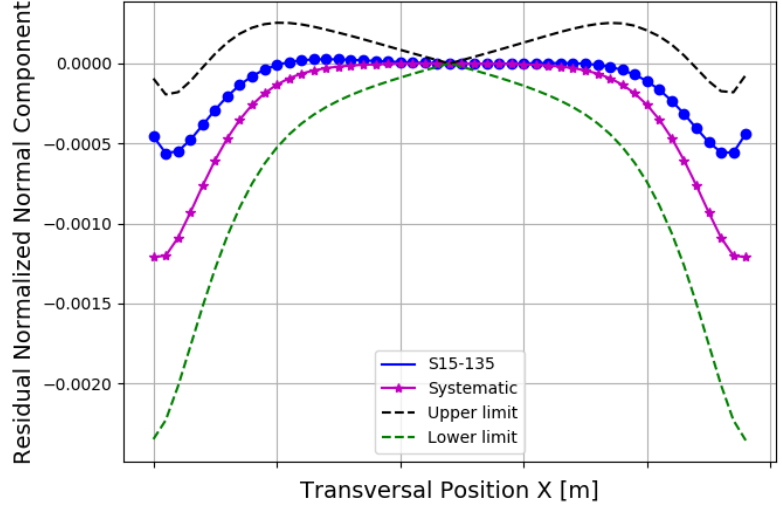
12 (6 ± 9) × E-6 (-5 ± 6) × E-6

13 (1.8 ± 53.8) × E-7 (1.8 ± 0.9) × E-5

14 (-7 ± 5) × E-6 (-5.3 ± 0.7) × E-5

15 (1.335 ± 0.007) × E-3 (-1.6 ± 0.5) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

