



S15-257

STORAGE RING MAGNET REPORT

Results

Date 17/07/2018

Hour 14:52:02

Temperature [°C] 23.66

Number of Measurements 9

Main Coil Current [A] (167.7977 ± 0.0006)

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) (17.48 ± 0.05)

Magnet Center Offset Y [μm] - (< ±40.0) (23.83 ± 0.08)

Roll [mrad] - (< ±0.3) (6.7 ± 0.5) × 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) (-3.24 ± 0.03) × E-4 (-5.6 ± 0.2) × E-4

2 (quadrupole) (-2.914 ± 0.008) × E-3 (-3.97 ± 0.01) × E-3

3 (sextupole) (1.00000 ± 0.00001) (2.0 ± 0.2) × E-4

4 (1.3 ± 0.1) × E-4 (-1.1 ± 0.1) × E-4

5 (4.2 ± 0.1) × E-4 (-1.3 ± 0.2) × E-4

6 (1.65 ± 0.10) × E-4 (3.6 ± 16.8) × E-6

7 (1.4 ± 0.1) × E-4 (3 ± 2) × E-5

8 (1 ± 1) × E-5 (-3 ± 2) × E-5

9 (-2.08 ± 0.02) × E-3 (4.5 ± 0.2) × E-4

10 (1 ± 2) × E-5 (-2 ± 1) × E-5

11 (-1 ± 1) × E-5 (-2 ± 2) × E-5

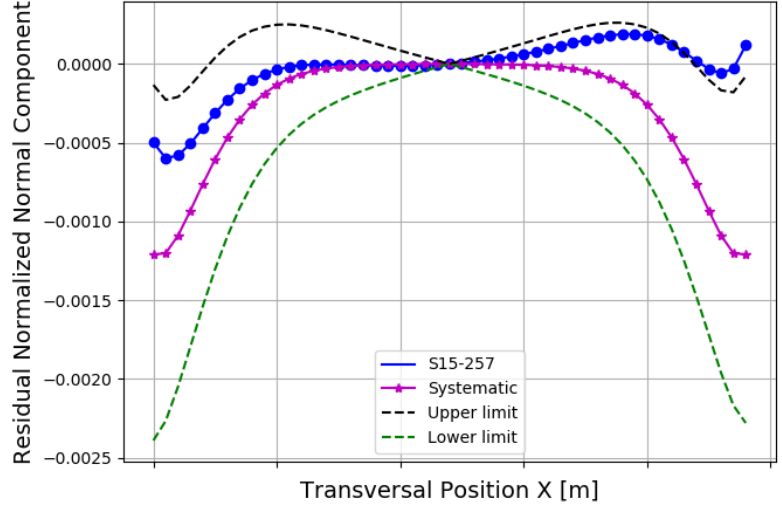
12 (2 ± 2) × E-5 (2 ± 3) × E-5

13 (-2 ± 2) × E-5 (8.0 ± 27.2) × E-6

14 (-4 ± 1) × E-5 (-2 ± 2) × E-5

15 (1.37 ± 0.02) × E-3 (-2 ± 3) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

