



S15-254

STORAGE RING MAGNET REPORT

Results

Date 26/07/2018

Hour 16:49:00

Temperature [°C] 23.413

Number of Measurements 9

Main Coil Current [A] (167.7966 ± 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] (-359.598 ± 0.004)

Magnet Center Offset X [μm] - (< ±40.0) (16.75 ± 0.09)

Magnet Center Offset Y [μm] - (< ±40.0) (24.9 ± 0.1)

Roll [mrad] - (< ±0.3) (7 ± 1) × 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) (-2.36 ± 0.07) × E-4 (-1.8 ± 0.2) × E-4

2 (quadrupole) (-2.79 ± 0.02) × E-3 (-4.15 ± 0.02) × E-3

3 (sextupole) (1.00000 ± 0.00002) (2.2 ± 0.3) × E-4

4 (2.6 ± 0.2) × E-4 (1.3 ± 0.3) × E-4

5 (7 ± 2) × E-5 (-2 ± 2) × E-5

6 (-1 ± 3) × E-5 (-1 ± 2) × E-5

7 (1.3 ± 32.4) × E-6 (2 ± 2) × E-5

8 (4 ± 2) × E-5 (1 ± 4) × E-5

9 (-1.93 ± 0.02) × E-3 (5.2 ± 0.4) × E-4

10 (-7 ± 4) × E-5 (2 ± 2) × E-5

11 (1.65 ± 200.94) × E-7 (1 ± 3) × E-5

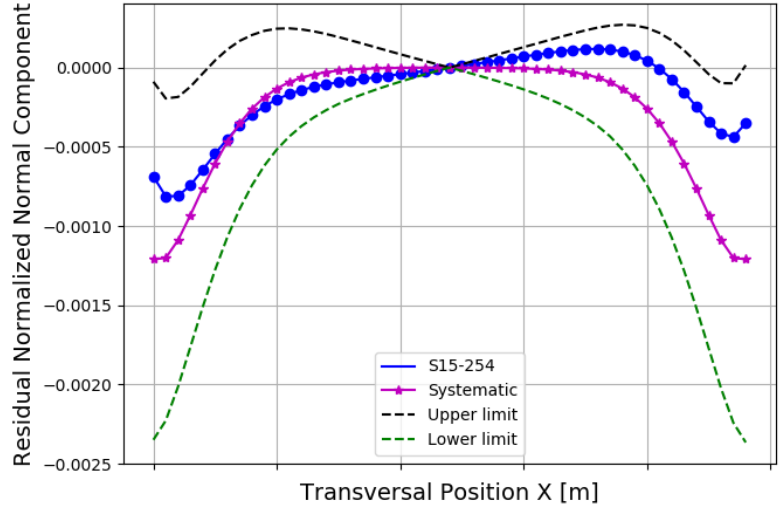
12 (-9.2 ± 39.0) × E-6 (-5.2 ± 27.4) × E-6

13 (1 ± 3) × E-5 (1.11 ± 332.47) × E-7

14 (-4 ± 2) × E-5 (-5 ± 4) × E-5

15 (1.33 ± 0.02) × E-3 (3 ± 1) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

