



S15-264

STORAGE RING MAGNET REPORT

Results

Date 12/07/2018

Hour 17:33:48

Temperature [°C] 23.177

Number of Measurements 9

Main Coil Current [A] (167.7973 ± 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] (-359.800 ± 0.004)

Magnet Center Offset X [μm] - (< ±40.0) (9.59 ± 0.08)

Magnet Center Offset Y [μm] - (< ±40.0) (20.5 ± 0.1)

Roll [mrad] - (< ±0.3) (-2.7 ± 0.8) × 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) (1.59 ± 0.07) × E-4 (-1.8 ± 0.2) × E-4

2 (quadrupole) (-1.60 ± 0.01) × E-3 (-3.42 ± 0.02) × E-3

3 (sextupole) (1.00000 ± 0.00001) (-8 ± 2) × E-5

4 (-4 ± 3) × E-5 (-3.0 ± 0.3) × E-4

5 (1.8 ± 0.2) × E-4 (-1 ± 2) × E-5

6 (6 ± 2) × E-5 (-7.3 ± 13.0) × E-6

7 (1 ± 2) × E-5 (2 ± 3) × E-5

8 (-9.1 ± 20.0) × E-6 (1.0 ± 0.3) × E-4

9 (-2.04 ± 0.02) × E-3 (4.7 ± 0.3) × E-4

10 (2 ± 3) × E-5 (6.4 ± 29.4) × E-6

11 (8.7 ± 16.5) × E-6 (-1 ± 2) × E-5

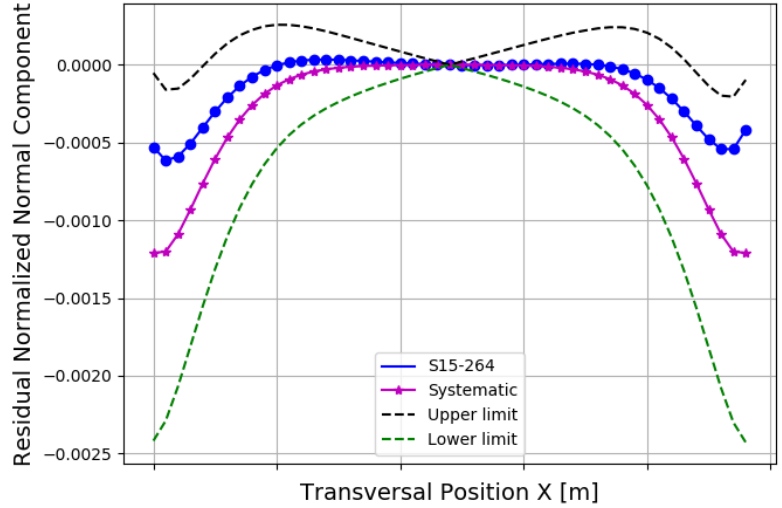
12 (10.0 ± 15.5) × E-6 (-4.9 ± 20.1) × E-6

13 (1 ± 2) × E-5 (-3 ± 2) × E-5

14 (1 ± 2) × E-5 (-6 ± 3) × E-5

15 (1.36 ± 0.02) × E-3 (-3 ± 3) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

