



S15-068

STORAGE RING MAGNET REPORT

Results

Date 02/07/2018

Hour 15:51:33

Temperature [°C] 24.118

Number of Measurements 9

Main Coil Current [A] (167.798 ± 0.004)

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] (-359.505 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (18.10 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (24.80 ± 0.03)

Roll [mrad] - (< ±0.3) (4 ± 2) × 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) (2.1 ± 0.5) × E-5 (-4.40 ± 0.08) × E-4

2 (quadrupole) (-3.017 ± 0.003) × E-3 (-4.134 ± 0.005) × E-3

3 (sextupole) (1.00000 ± 0.00001) (1.3 ± 0.7) × E-5

4 (1.95 ± 0.02) × E-4 (2.82 ± 0.06) × E-4

5 (4.08 ± 0.06) × E-4 (-4.0 ± 0.8) × E-5

6 (-2.45 ± 0.06) × E-4 (-1.4 ± 0.6) × E-5

7 (1.19 ± 0.08) × E-4 (1.2 ± 0.7) × E-5

8 (10 ± 7) × E-6 (1.5 ± 0.8) × E-5

9 (-1.968 ± 0.009) × E-3 (1.06 ± 0.05) × E-4

10 (4.1 ± 60.0) × E-7 (-6 ± 6) × E-6

11 (-7 ± 6) × E-6 (-8 ± 10) × E-6

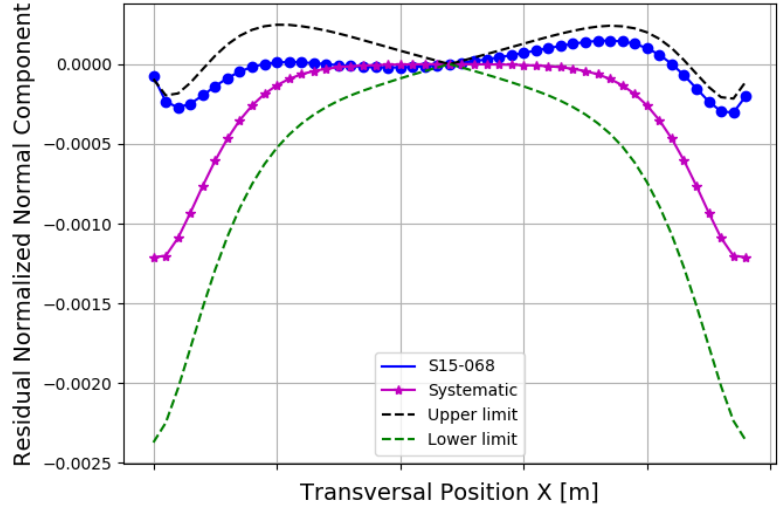
12 (4 ± 7) × E-6 (1 ± 5) × E-6

13 (-1.6 ± 0.6) × E-5 (6 ± 7) × E-6

14 (-2.7 ± 0.8) × E-5 (-4.6 ± 0.9) × E-5

15 (1.326 ± 0.007) × E-3 (9.6 ± 38.2) × E-7

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

