



S15-105

STORAGE RING MAGNET REPORT

Results

Date 12/07/2018

Hour 18:16:22

Temperature [°C] 23.205

Number of Measurements 9

Main Coil Current [A] (167.7976 ± 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] (-359.771 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (10.51 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (18.15 ± 0.04)

Roll [mrad] - (< ±0.3) (6.0 ± 0.4) × 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) (-1.047 ± 0.005) × E-3 (-5.26 ± 0.08) × E-4

2 (quadrupole) (-1.752 ± 0.004) × E-3 (-3.025 ± 0.007) × E-3

3 (sextupole) (1.000000 ± 0.000008) (1.8 ± 0.1) × E-4

4 (2.46 ± 0.10) × E-4 (1.70 ± 0.07) × E-4

5 (2.8 ± 0.1) × E-4 (7 ± 1) × E-5

6 (-1.6 ± 0.2) × E-4 (-3.2 ± 11.9) × E-6

7 (1.2 ± 0.1) × E-4 (-9.1 ± 10.5) × E-6

8 (-7.89 ± 131.31) × E-7 (9.5 ± 11.8) × E-6

9 (-2.03 ± 0.02) × E-3 (2.7 ± 0.2) × E-4

10 (-1.1 ± 18.7) × E-6 (2.5 ± 14.2) × E-6

11 (-8.3 ± 15.9) × E-6 (2 ± 1) × E-5

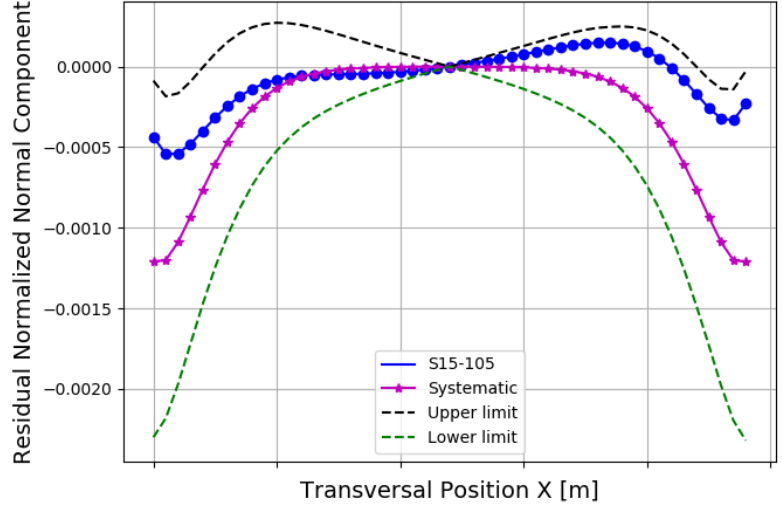
12 (8.3 ± 24.1) × E-6 (2 ± 1) × E-5

13 (-1 ± 1) × E-5 (1.2 ± 0.9) × E-5

14 (1 ± 2) × E-5 (-2 ± 1) × E-5

15 (1.32 ± 0.02) × E-3 (3 ± 1) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

