



S15-263

STORAGE RING MAGNET REPORT

Results

Date 07/07/2018

Hour 09:19:45

Temperature [°C] 23.659

Number of Measurements 9

Main Coil Current [A] (167.800 ± 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] (-360.107 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (10.01 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (28.98 ± 0.03)

Roll [mrad] - (< ±0.3) (-8.4 ± 0.1) × E-2

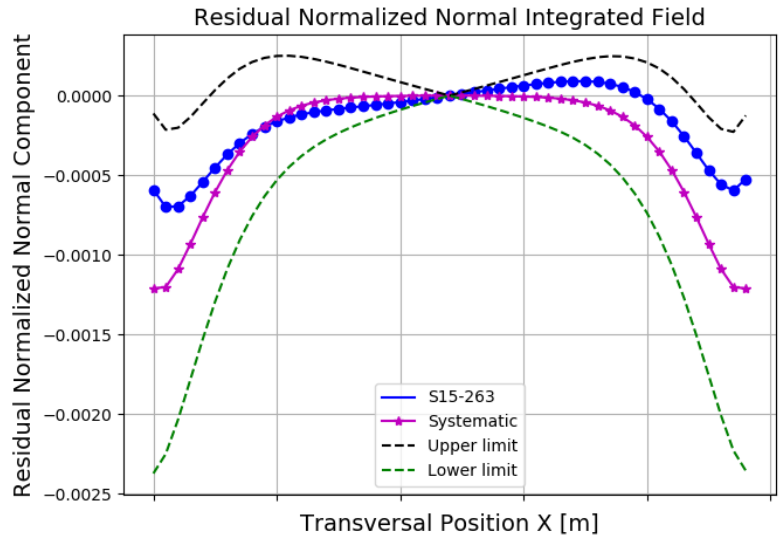
Electric Parameters

Inductance [mH] 3.157

Voltage [V] 6.0106

Resistance [mΩ] 35.82

Main Coil Number of Turns 11.25



Normalized
Normal
Multipoles
x=12.0 mm
[T.m⁽²⁻ⁿ⁾]

Normalized
Skew
Multipoles
x=12.0 mm
[T.m⁽²⁻ⁿ⁾]

n

1 (dipole)

(-8.44 ± 0.06) × E-4

(5.77 ± 0.05) × E-4

2 (quadrupole)

(-1.669 ± 0.003) × E-3

(-4.831 ± 0.004) × E-3

3 (sextupole)

(1.000000 ± 0.000008)

(-2.51 ± 0.04) × E-4

4

(2.55 ± 0.05) × E-4

(1.77 ± 0.03) × E-4

5

(4.5 ± 0.8) × E-5

(-1.88 ± 0.05) × E-4

6

(-2.01 ± 0.04) × E-4

(3 ± 8) × E-6

7

(4.1 ± 0.9) × E-5

(-1.4 ± 0.7) × E-5

8

(-4 ± 8) × E-6

(3.5 ± 0.2) × E-5

9

(-1.931 ± 0.006) × E-3

(2.26 ± 0.05) × E-4

10

(-1.6 ± 0.6) × E-5

(-1.8 ± 0.7) × E-5

11

(1.1 ± 11.0) × E-6

(-6 ± 5) × E-6

12

(9 ± 10) × E-6

(-1.4 ± 0.5) × E-5

13

(-8 ± 7) × E-6

(3 ± 1) × E-5

14

(-9 ± 8) × E-6

(-3.7 ± 0.8) × E-5

15

(1.294 ± 0.006) × E-3

(-3.9 ± 0.7) × E-5

