



S15-103

STORAGE RING MAGNET REPORT

Results

Date 13/07/2018

Hour 09:17:50

Temperature [°C] 22.802

Number of Measurements 9

Main Coil Current [A] (167.7989 ± 0.0004)

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] (-360.019 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (7.84 ± 0.05)

Magnet Center Offset Y [μm] - (< ±40.0) (25.09 ± 0.08)

Roll [mrad] - (< ±0.3) (-6.6 ± 0.4) × E-2

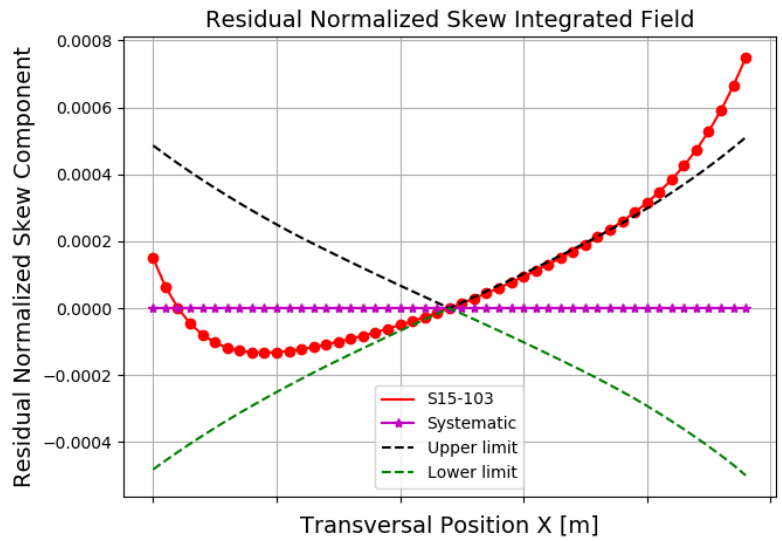
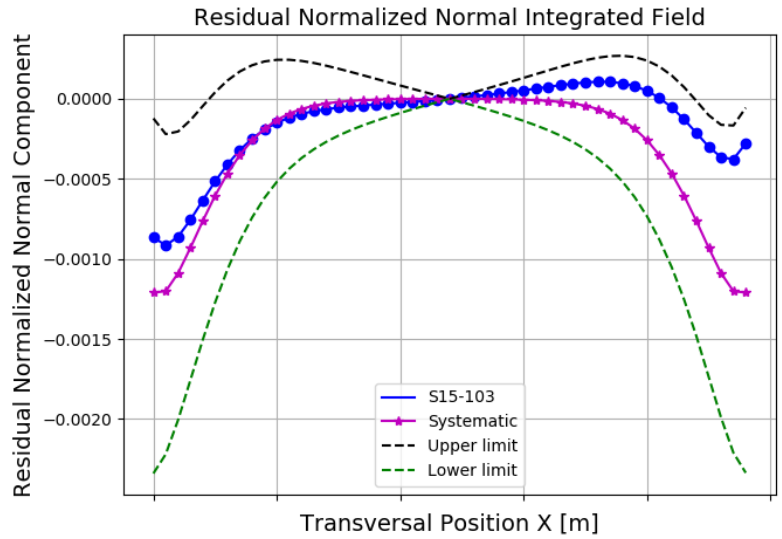
Electric Parameters

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)

(-1.94 ± 0.04) × E-4

(-1.09 ± 0.10) × E-4

2 (quadrupole)

(-1.306 ± 0.008) × E-3

(-4.18 ± 0.01) × E-3

3 (sextupole)

(1.000000 ± 0.000009)

(-2.0 ± 0.1) × E-4

4

(1.7 ± 0.2) × E-4

(3.3 ± 0.1) × E-4

5

(1.4 ± 0.1) × E-4

(1.8 ± 0.1) × E-4

6

(1.3 ± 0.1) × E-4

(3.2 ± 12.3) × E-6

7

(3 ± 1) × E-5

(-1.1 ± 0.2) × E-4

8

(-3 ± 1) × E-5

(1 ± 2) × E-5

9

(-2.03 ± 0.02) × E-3

(3.6 ± 0.2) × E-4

10

(4 ± 2) × E-5

(-8.2 ± 22.3) × E-6

11

(-2 ± 1) × E-5

(-2 ± 2) × E-5

12

(-4.7 ± 1.0) × E-5

(-1.3 ± 10.2) × E-6

13

(6.0 ± 14.3) × E-6

(5 ± 2) × E-5

14

(3 ± 2) × E-5

(-3.9 ± 1.0) × E-5

15

(1.30 ± 0.02) × E-3

(-2 ± 2) × E-5