



S15-271

STORAGE RING MAGNET REPORT

Results

Date 23/07/2018

Hour 12:43:27

Temperature [°C] 23.665

Number of Measurements 9

Main Coil Current [A] (167.799 ± 0.001)

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] (-359.195 ± 0.008)

Magnet Center Offset X [μm] - (< ±40.0) (14.9 ± 0.1)

Magnet Center Offset Y [μm] - (< ±40.0) (21.0 ± 0.2)

Roll [mrad] - (< ±0.3) (9 ± 1) × E-2

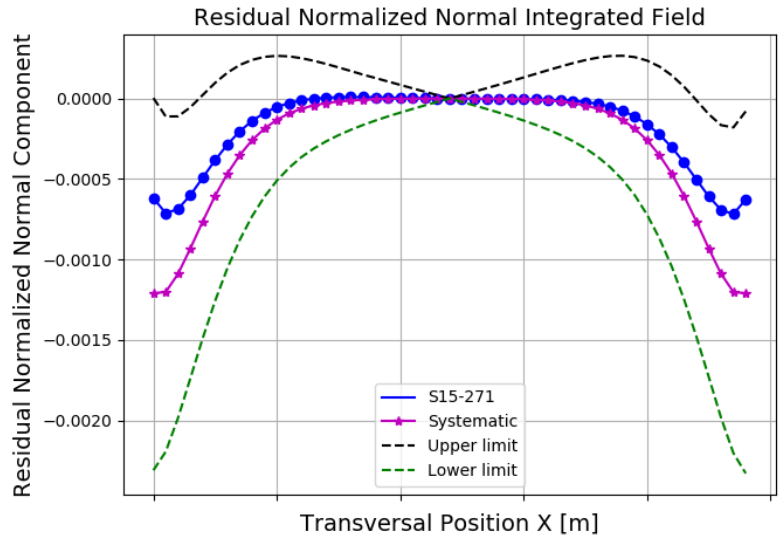
Electric Parameters

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)

(-6.4 ± 0.1) × E-4

(3.8 ± 0.3) × E-4

2 (quadrupole)

(-2.48 ± 0.02) × E-3

(-3.49 ± 0.03) × E-3

3 (sextupole)

(1.00000 ± 0.00003)

(2.8 ± 0.4) × E-4

4

(-2 ± 3) × E-5

(-3.4 ± 0.4) × E-4

5

(3 ± 3) × E-5

(-2.8 ± 0.4) × E-4

6

(-2.8 ± 22.4) × E-6

(-6.1 ± 31.8) × E-6

7

(4 ± 4) × E-5

(1 ± 3) × E-5

8

(6 ± 4) × E-5

(5 ± 2) × E-5

9

(-2.05 ± 0.03) × E-3

(5.2 ± 0.4) × E-4

10

(-1 ± 2) × E-5

(1 ± 4) × E-5

11

(-1 ± 2) × E-5

(4.4 ± 21.8) × E-6

12

(-9.3 ± 21.7) × E-6

(-2 ± 4) × E-5

13

(-4 ± 4) × E-5

(3 ± 3) × E-5

14

(-1 ± 3) × E-5

(-2 ± 2) × E-5

15

(1.40 ± 0.04) × E-3

(6 ± 5) × E-5

