



S15-203

STORAGE RING MAGNET REPORT

Results

Date 25/07/2018

Hour 11:44:53

Temperature [°C] 23.726

Number of Measurements 9

Main Coil Current [A] (167.798 ± 0.003)

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] (-359.805 ± 0.004)

Magnet Center Offset X [μm] - (< ±40.0) (12.4 ± 0.1)

Magnet Center Offset Y [μm] - (< ±40.0) (21.8 ± 0.2)

Roll [mrad] - (< ±0.3) (6 ± 2) × E-2

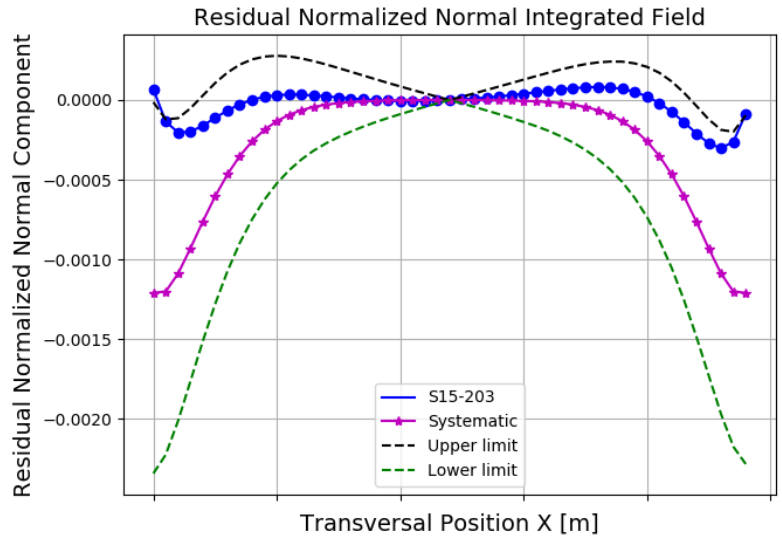
Electric Parameters

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)

(2 ± 1) × E-5

(10 ± 2) × E-5

2 (quadrupole)

(-2.07 ± 0.02) × E-3

(-3.63 ± 0.03) × E-3

3 (sextupole)

(1.00000 ± 0.00002)

(1.7 ± 0.5) × E-4

4

(9 ± 2) × E-5

(-1.5 ± 0.3) × E-4

5

(3.1 ± 0.2) × E-4

(-8.2 ± 18.3) × E-6

6

(-1.5 ± 0.1) × E-4

(-2 ± 4) × E-5

7

(1.4 ± 0.3) × E-4

(6.5 ± 33.7) × E-6

8

(-3 ± 3) × E-5

(3 ± 3) × E-5

9

(-1.89 ± 0.03) × E-3

(5.7 ± 0.5) × E-4

10

(-7.7 ± 31.4) × E-6

(2 ± 3) × E-5

11

(2 ± 2) × E-5

(3 ± 3) × E-5

12

(-1 ± 2) × E-5

(2 ± 3) × E-5

13

(3 ± 3) × E-5

(3 ± 3) × E-5

14

(3 ± 2) × E-5

(-2 ± 3) × E-5

15

(1.38 ± 0.02) × E-3

(5 ± 2) × E-5

