



S15-260

STORAGE RING MAGNET REPORT

Results

Date 17/07/2018

Hour 12:32:37

Temperature [°C] 23.551

Number of Measurements 9

Main Coil Current [A] (167.7974 ± 0.0009)

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] (-359.676 ± 0.005)

Magnet Center Offset X [μm] - (< ±40.0) (10.74 ± 0.04)

Magnet Center Offset Y [μm] - (< ±40.0) (18.7 ± 0.2)

Roll [mrad] - (< ±0.3) (7 ± 1) × E-2

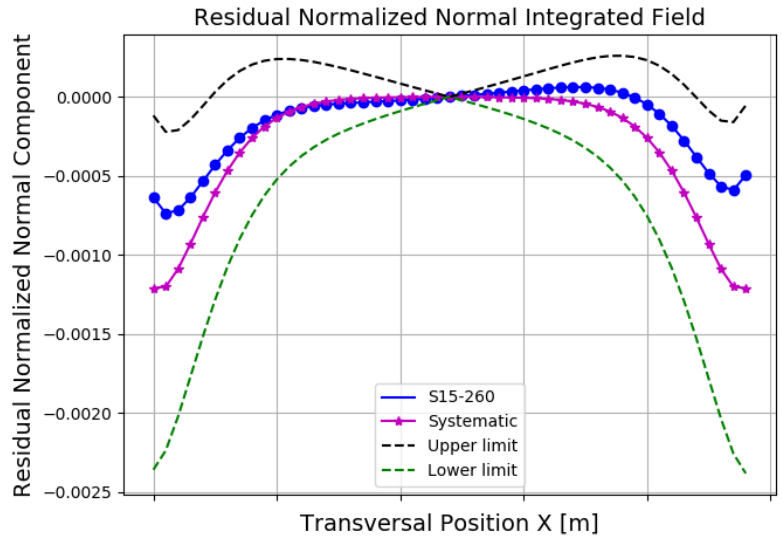
Electric Parameters

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)

(-4.12 ± 0.05) × E-4

(1.2 ± 0.3) × E-4

2 (quadrupole)

(-1.790 ± 0.007) × E-3

(-3.11 ± 0.03) × E-3

3 (sextupole)

(1.00000 ± 0.00002)

(2.2 ± 0.4) × E-4

4

(1.5 ± 0.1) × E-4

(-1.1 ± 0.3) × E-4

5

(9.5 ± 0.9) × E-5

(2 ± 3) × E-5

6

(-10 ± 1) × E-5

(-2 ± 2) × E-5

7

(4 ± 2) × E-5

(-7.6 ± 18.4) × E-6

8

(3 ± 2) × E-5

(6.9 ± 20.3) × E-6

9

(-2.07 ± 0.02) × E-3

(4.5 ± 0.2) × E-4

10

(-8.1 ± 14.7) × E-6

(-1 ± 3) × E-5

11

(-2 ± 2) × E-5

(2 ± 2) × E-5

12

(5.0 ± 12.4) × E-6

(8.7 ± 28.7) × E-6

13

(-2.1 ± 17.3) × E-6

(9.5 ± 21.1) × E-6

14

(-7.3 ± 23.9) × E-6

(-4 ± 2) × E-5

15

(1.39 ± 0.01) × E-3

(1.27 ± 245.84) × E-7

