



S15-280

STORAGE RING MAGNET REPORT

Results

Date 12/07/2018

Hour 11:04:01

Temperature [°C] 22.89

Number of Measurements 9

Main Coil Current [A] (167.7982 ± 0.0007)

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] (-359.683 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (8.31 ± 0.04)

Magnet Center Offset Y [μm] - (< ±40.0) (18.13 ± 0.03)

Roll [mrad] - (< ±0.3) (-4.6 ± 0.5) × E-2

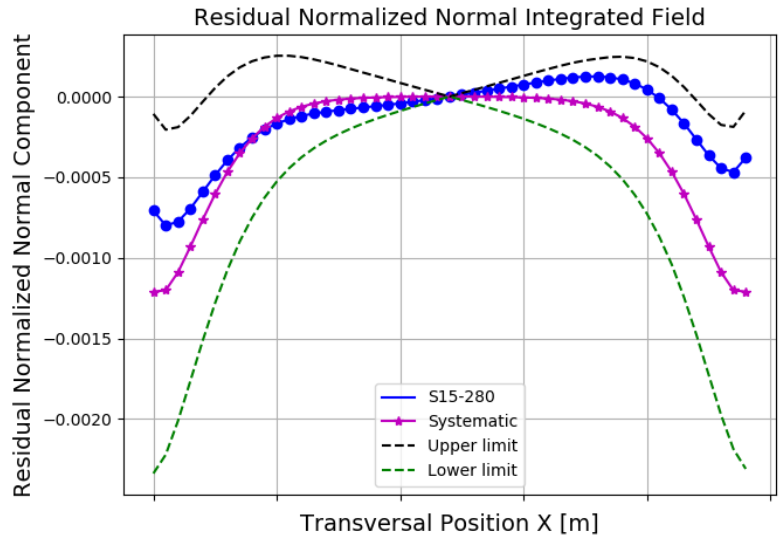
Electric Parameters

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)

(-3.40 ± 0.07) × E-4

(-1.09 ± 0.08) × E-4

2 (quadrupole)

(-1.384 ± 0.007) × E-3

(-3.021 ± 0.006) × E-3

3 (sextupole)

(1.000000 ± 0.000010)

(-1.4 ± 0.2) × E-4

4

(2.8 ± 0.1) × E-4

(-1.35 ± 0.09) × E-4

5

(1.23 ± 0.09) × E-4

(-1.2 ± 0.1) × E-4

6

(-1.3 ± 0.1) × E-4

(2 ± 1) × E-5

7

(5.7 ± 0.7) × E-5

(3.7 ± 1.0) × E-5

8

(2.0 ± 1.0) × E-5

(3 ± 1) × E-5

9

(-2.058 ± 0.008) × E-3

(3.5 ± 0.2) × E-4

10

(-1 ± 7) × E-6

(-7 ± 9) × E-6

11

(-4 ± 8) × E-6

(1.2 ± 0.9) × E-5

12

(1.4 ± 1.0) × E-5

(-6 ± 10) × E-6

13

(-3.0 ± 0.8) × E-5

(4 ± 9) × E-6

14

(-1 ± 1) × E-5

(-3.8 ± 0.9) × E-5

15

(1.368 ± 0.006) × E-3

(4 ± 9) × E-6

