



S15-124

STORAGE RING MAGNET REPORT

Results

Date 06/07/2018

Hour 11:02:26

Temperature [°C] 23.66

Number of Measurements 9

Main Coil Current [A] (167.7978 ± 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] (-359.870 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (5.68 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (22.43 ± 0.03)

Roll [mrad] - (< ±0.3) (-5.7 ± 0.1) × E-2

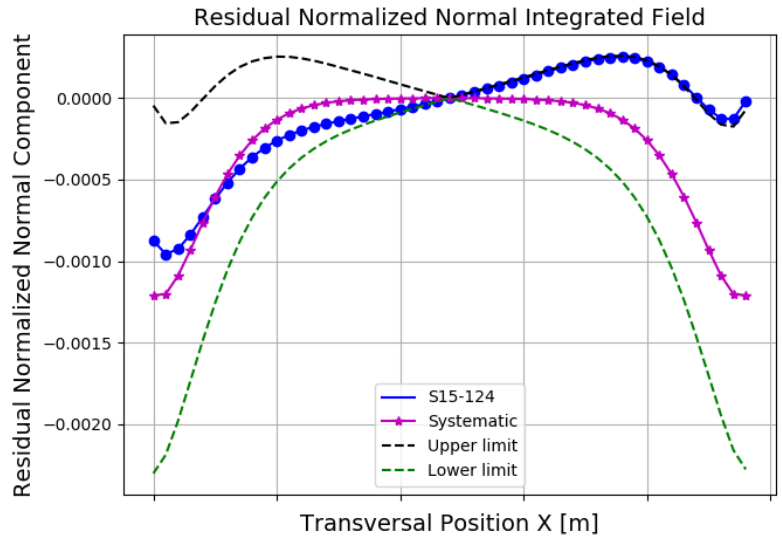
Electric Parameters

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)

(-1.48 ± 0.03) × E-4

(3.15 ± 0.04) × E-4

2 (quadrupole)

(-9.46 ± 0.03) × E-4

(-3.738 ± 0.005) × E-3

3 (sextupole)

(1.000000 ± 0.000006)

(-1.72 ± 0.04) × E-4

4

(4.36 ± 0.04) × E-4

(1.68 ± 0.05) × E-4

5

(1.93 ± 0.04) × E-4

(-2.3 ± 0.6) × E-5

6

(4 ± 5) × E-6

(-2.7 ± 0.8) × E-5

7

(5.5 ± 0.5) × E-5

(-3.1 ± 0.5) × E-5

8

(2.9 ± 0.5) × E-5

(3.0 ± 0.9) × E-5

9

(-1.986 ± 0.008) × E-3

(1.80 ± 0.07) × E-4

10

(-2.8 ± 0.2) × E-5

(1.4 ± 0.8) × E-5

11

(-7 ± 7) × E-6

(9 ± 7) × E-6

12

(-9 ± 4) × E-6

(8 ± 9) × E-6

13

(-2.1 ± 0.6) × E-5

(1.2 ± 0.4) × E-5

14

(-3 ± 7) × E-6

(-4.0 ± 0.6) × E-5

15

(1.319 ± 0.008) × E-3

(-2 ± 6) × E-6

