



S15-182

STORAGE RING MAGNET REPORT

Results

Date 29/08/2018

Hour 11:34:00

Temperature [°C] 23.469

Number of Measurements 9

Main Coil Current [A] (167.7980 ± 0.0008)

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] (-359.490 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (15.94 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (27.93 ± 0.09)

Roll [mrad] - (< ±0.3) (-9.4 ± 0.6) × E-2

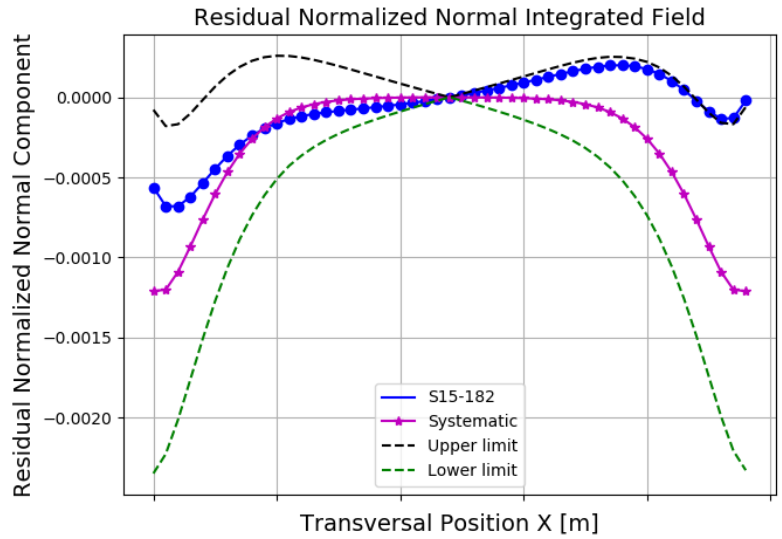
Electric Parameters

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) (-5.2 ± 0.4) × E-5 (-5.8 ± 0.2) × E-4

2 (quadrupole) (-2.657 ± 0.003) × E-3 (-4.66 ± 0.02) × E-3

3 (sextupole) (1.00000 ± 0.00001) (-2.8 ± 0.2) × E-4

4 (3.07 ± 0.03) × E-4 (1.8 ± 15.0) × E-6

5 (2.40 ± 0.03) × E-4 (-9.5 ± 14.1) × E-6

6 (-6 ± 6) × E-6 (1 ± 1) × E-5

7 (8.3 ± 0.8) × E-5 (2.02 ± 108.63) × E-7

8 (4.8 ± 0.7) × E-5 (4.9 ± 0.9) × E-5

9 (-1.862 ± 0.006) × E-3 (3.7 ± 0.1) × E-4

10 (-3 ± 1) × E-5 (5 ± 9) × E-6

11 (-9 ± 6) × E-6 (1 ± 9) × E-6

12 (-1.2 ± 0.7) × E-5 (-1 ± 1) × E-5

13 (-1.1 ± 0.9) × E-5 (2 ± 1) × E-5

14 (-4.2 ± 0.7) × E-5 (-4 ± 1) × E-5

15 (1.267 ± 0.009) × E-3 (-1.4 ± 0.1) × E-4

