



S15-282

STORAGE RING MAGNET REPORT

Results

Date 09/08/2018

Hour 08:23:17

Temperature [°C] 23.518

Number of Measurements 9

Main Coil Current [A] (167.801 ± 0.007)

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] (-360.031 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (2.31 ± 0.01)

Magnet Center Offset Y [μm] - (< ±40.0) (30.50 ± 0.02)

Roll [mrad] - (< ±0.3) (4.8 ± 0.1) × E-2

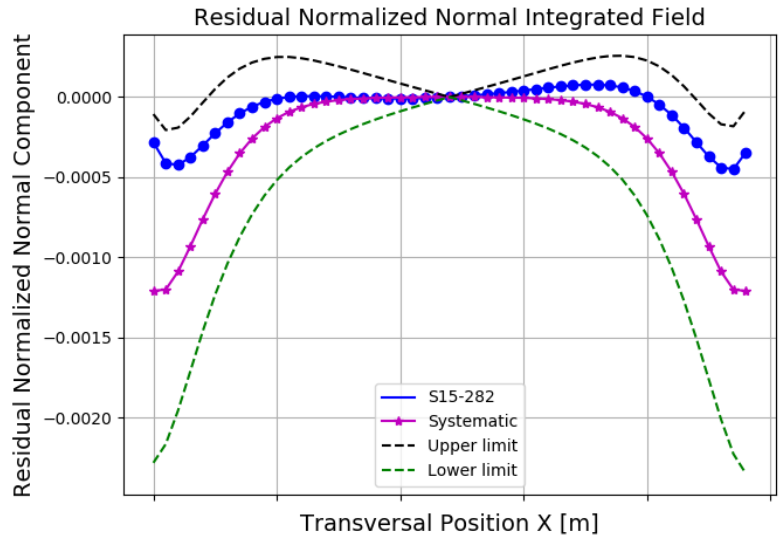
Electric Parameters

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⁾]

1 (dipole) (-5.24 ± 0.03) × E-4 (-1.160 ± 0.005) × E-3

2 (quadrupole) (-3.84 ± 0.02) × E-4 (-5.083 ± 0.003) × E-3

3 (sextupole) (1.000000 ± 0.000008) (1.43 ± 0.03) × E-4

4 (1.04 ± 0.04) × E-4 (3.96 ± 0.04) × E-4

5 (2.65 ± 0.04) × E-4 (-4.7 ± 0.4) × E-5

6 (-1.24 ± 0.04) × E-4 (-2.0 ± 0.4) × E-5

7 (10.0 ± 0.5) × E-5 (4.5 ± 0.3) × E-5

8 (-1.3 ± 0.5) × E-5 (2.5 ± 0.5) × E-5

9 (-2.012 ± 0.004) × E-3 (3.4 ± 0.5) × E-5

10 (-2.2 ± 65.1) × E-7 (-4 ± 4) × E-6

11 (4 ± 5) × E-6 (-1.9 ± 0.3) × E-5

12 (2 ± 6) × E-6 (-4 ± 2) × E-6

13 (-1.3 ± 0.6) × E-5 (5 ± 5) × E-6

14 (-1 ± 5) × E-6 (-4.2 ± 0.6) × E-5

15 (1.341 ± 0.006) × E-3 (6.07 ± 430.78) × E-8

