



S15-008

STORAGE RING MAGNET REPORT

Results

Date 28/08/2018

Hour 14:36:38

Temperature [°C] 23.39

Number of Measurements 9

Main Coil Current [A] (167.7984 ± 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] (-360.186 ± 0.001)

Magnet Center Offset X [μm] - (< ±40.0) (9.07 ± 0.01)

Magnet Center Offset Y [μm] - (< ±40.0) (22.74 ± 0.06)

Roll [mrad] - (< ±0.3) (-6.9 ± 0.3) × E-2

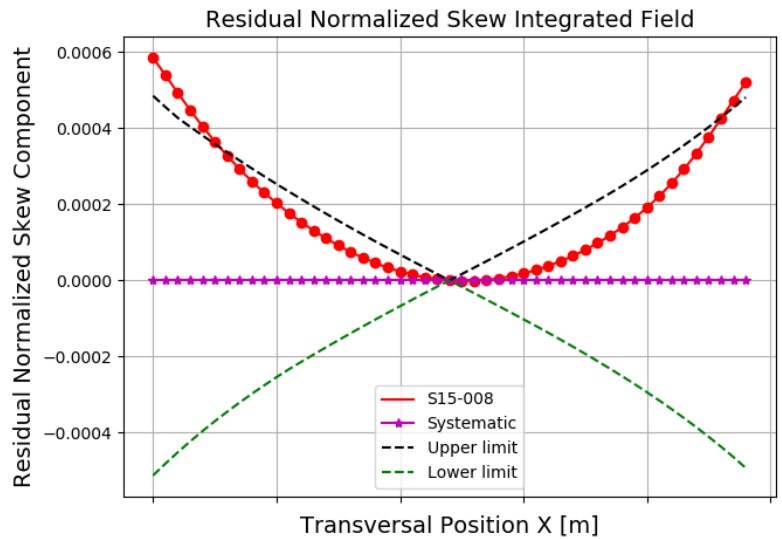
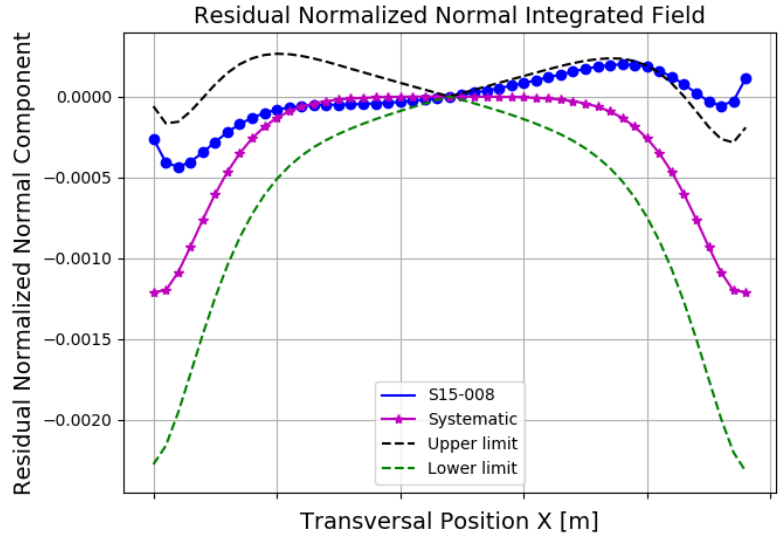
Electric Parameters

Inductance [mH] 3.157

Voltage [V] 6.0106

Resistance [mΩ] 35.82

Main Coil Number of Turns 11.25



n	Normalized Normal Multipoles x=12.0 mm [T.m ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles x=12.0 mm [T.m ⁽²⁻ⁿ⁾]
1 (dipole)	(-3.43 ± 0.04) × E-4	(-5.57 ± 0.10) × E-4
2 (quadrupole)	(-1.511 ± 0.002) × E-3	(-3.790 ± 0.010) × E-3
3 (sextupole)	(1.000000 ± 0.000006)	(-2.06 ± 0.09) × E-4
4	(2.55 ± 0.02) × E-4	(-5.4 ± 0.8) × E-5
5	(3.22 ± 0.04) × E-4	(5.16 ± 0.10) × E-4
6	(-3.7 ± 0.3) × E-5	(-1.2 ± 0.8) × E-5
7	(1.48 ± 0.04) × E-4	(-1.15 ± 0.07) × E-4
8	(-10 ± 3) × E-6	(3.1 ± 0.8) × E-5
9	(-1.769 ± 0.005) × E-3	(2.27 ± 0.10) × E-4
10	(-2 ± 6) × E-6	(2.4 ± 0.9) × E-5
11	(-1 ± 1) × E-5	(-2 ± 2) × E-5
12	(-9 ± 5) × E-6	(4 ± 4) × E-6
13	(-3.2 ± 0.8) × E-5	(1.1 ± 0.9) × E-5
14	(-10 ± 7) × E-6	(-2 ± 1) × E-5
15	(1.268 ± 0.007) × E-3	(-6.8 ± 0.8) × E-5