



S15-009

STORAGE RING MAGNET REPORT

Results

Date 28/08/2018

Hour 11:56:45

Temperature [°C] 23.463

Number of Measurements 9

Main Coil Current [A] (167.797 ± 0.001)

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] (-360.345 ± 0.001)

Magnet Center Offset X [μm] - (< ±40.0) (19.12 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (22.48 ± 0.08)

Roll [mrad] - (< ±0.3) (9.7 ± 0.5) × E-2

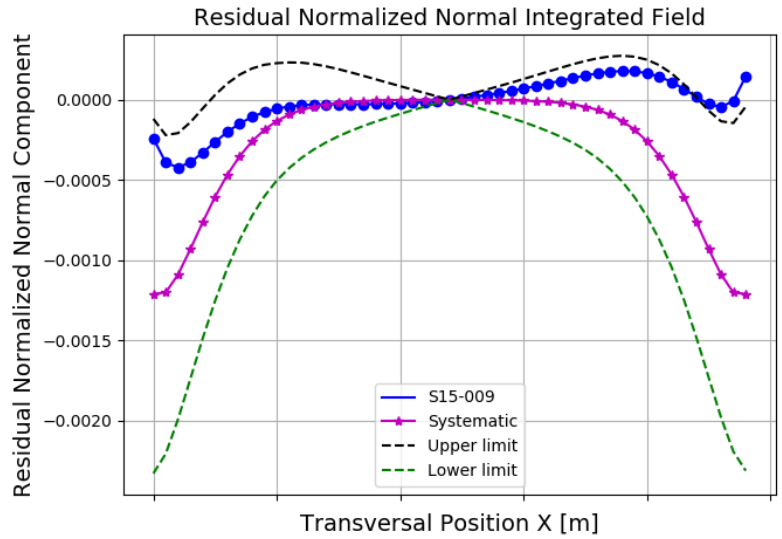
Electric Parameters

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	Normalized Normal Multipoles x=12.0 mm [T.m ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles x=12.0 mm [T.m ⁽²⁻ⁿ⁾]
1 (dipole)	(-7.28 ± 0.04) × E-4	(4 ± 2) × E-5
2 (quadrupole)	(-3.187 ± 0.003) × E-3	(-3.75 ± 0.01) × E-3
3 (sextupole)	(1.000000 ± 0.000006)	(2.9 ± 0.1) × E-4
4	(1.91 ± 0.05) × E-4	(1.2 ± 0.1) × E-4
5	(3.37 ± 0.02) × E-4	(-1.68 ± 0.10) × E-4
6	(2.5 ± 0.3) × E-5	(-3 ± 1) × E-5
7	(1.28 ± 0.04) × E-4	(6.5 ± 0.8) × E-5
8	(1.9 ± 0.4) × E-5	(2 ± 1) × E-5
9	(-1.767 ± 0.008) × E-3	(2.55 ± 0.07) × E-4
10	(-1.5 ± 0.8) × E-5	(-7.6 ± 13.6) × E-6
11	(4.5 ± 18.0) × E-6	(-2 ± 3) × E-5
12	(-5.6 ± 16.4) × E-6	(5.42 ± 139.14) × E-7
13	(-1.8 ± 0.9) × E-5	(-10 ± 8) × E-6
14	(-2.2 ± 0.7) × E-5	(-1 ± 1) × E-5
15	(1.27 ± 0.01) × E-3	(-1.2 ± 0.1) × E-4

