



S15-046

STORAGE RING MAGNET REPORT

Results

Date 11/07/2018

Hour 16:24:08

Temperature [°C] 23.096

Number of Measurements 9

Main Coil Current [A] (167.7976 ± 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] (-359.196 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (25.59 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (27.83 ± 0.06)

Roll [mrad] - (< ±0.3) (3.9 ± 0.5) × E-2

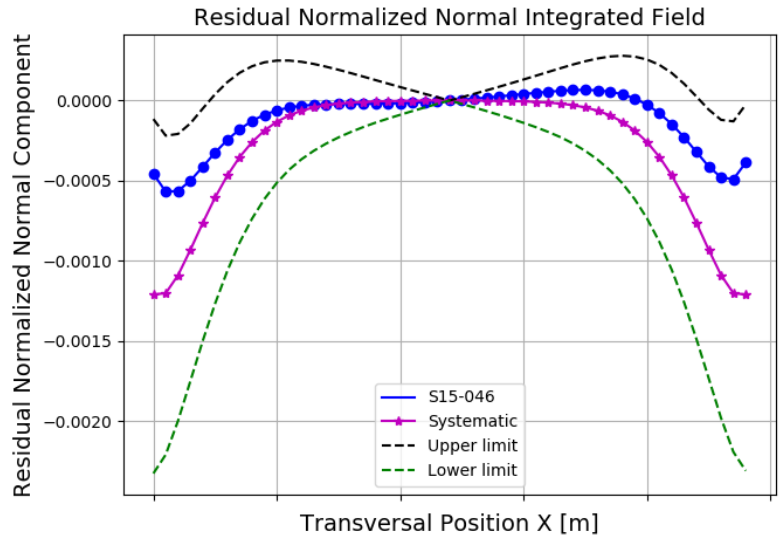
Electric Parameters

Inductance [mH] 3.157

Voltage [V] 6.0106

Resistance [mΩ] 35.82

Main Coil Number of Turns 11.25



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)	(-4.7 ± 0.4) × E-5	(5.5 ± 0.6) × E-5
2 (quadrupole)	(-4.264 ± 0.005) × E-3	(-4.639 ± 0.009) × E-3
3 (sextupole)	(1.000000 ± 0.000007)	(1.2 ± 0.1) × E-4
4	(1.30 ± 0.09) × E-4	(-5 ± 1) × E-5
5	(1.7 ± 0.1) × E-4	(2.2 ± 0.2) × E-4
6	(-1.45 ± 0.08) × E-4	(-2.6 ± 11.6) × E-6
7	(7 ± 1) × E-5	(-8 ± 2) × E-5
8	(4 ± 1) × E-5	(7 ± 2) × E-5
9	(-2.01 ± 0.01) × E-3	(3.7 ± 0.1) × E-4
10	(2 ± 1) × E-5	(2 ± 1) × E-5
11	(4 ± 2) × E-5	(-1.0 ± 0.9) × E-5
12	(9.4 ± 15.9) × E-6	(-7.8 ± 16.9) × E-6
13	(-6.9 ± 18.3) × E-6	(-1 ± 2) × E-5
14	(-2 ± 2) × E-5	(-3 ± 2) × E-5
15	(1.32 ± 0.01) × E-3	(-5 ± 2) × E-5

