



S15-171

STORAGE RING MAGNET REPORT

Results

Date 07/08/2018

Hour 12:42:10

Temperature [°C] 23.629

Number of Measurements 9

Main Coil Current [A] (167.798 ± 0.005)

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] (-359.872 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (7.41 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (28.76 ± 0.02)

Roll [mrad] - (< ±0.3) (9.9 ± 0.2) × E-2

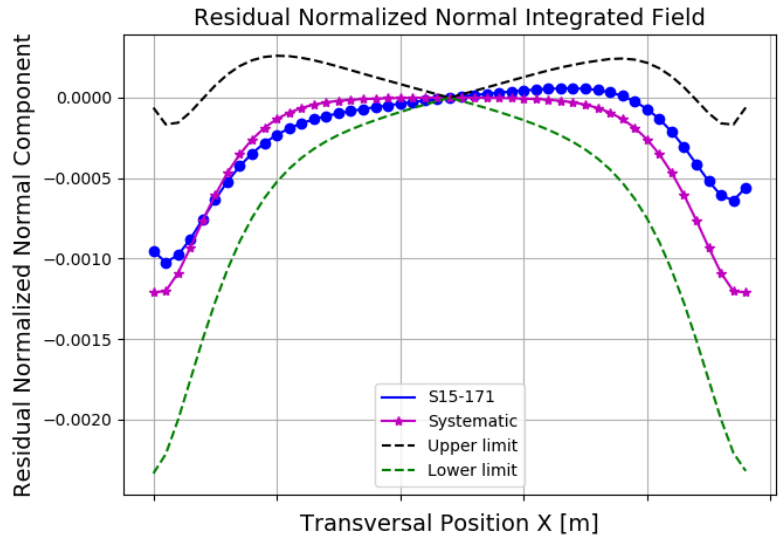
Electric Parameters

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)	(-6.41 ± 0.04) × E-4	(-3.64 ± 0.04) × E-4
2 (quadrupole)	(-1.235 ± 0.003) × E-3	(-4.793 ± 0.004) × E-3
3 (sextupole)	(1.000000 ± 0.000009)	(2.96 ± 0.07) × E-4
4	(2.07 ± 0.03) × E-4	(2.85 ± 0.04) × E-4
5	(-1.02 ± 0.06) × E-4	(3.2 ± 0.5) × E-5
6	(1.3 ± 54.6) × E-7	(-9 ± 8) × E-6
7	(1.4 ± 0.5) × E-5	(-4 ± 5) × E-6
8	(4 ± 5) × E-6	(1.2 ± 0.5) × E-5
9	(-1.999 ± 0.008) × E-3	(2.8 ± 0.7) × E-5
10	(-7 ± 5) × E-6	(-5.15 ± 373.91) × E-8
11	(1.1 ± 0.6) × E-5	(-1.6 ± 0.7) × E-5
12	(-6.8 ± 45.8) × E-7	(1 ± 5) × E-6
13	(-7 ± 4) × E-6	(8 ± 7) × E-6
14	(-6 ± 3) × E-6	(-4.1 ± 0.4) × E-5
15	(1.329 ± 0.004) × E-3	(1.7 ± 0.4) × E-5

