



S15-100

STORAGE RING MAGNET REPORT

Results

Date 01/08/2018

Hour 08:29:24

Temperature [°C] 23.53

Number of Measurements 9

Main Coil Current [A] (167.7996 ± 0.0006)

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] (-359.592 ± 0.005)

Magnet Center Offset X [μm] - (< ±40.0) (12.29 ± 0.09)

Magnet Center Offset Y [μm] - (< ±40.0) (19.4 ± 0.2)

Roll [mrad] - (< ±0.3) (-7 ± 2) x E-2

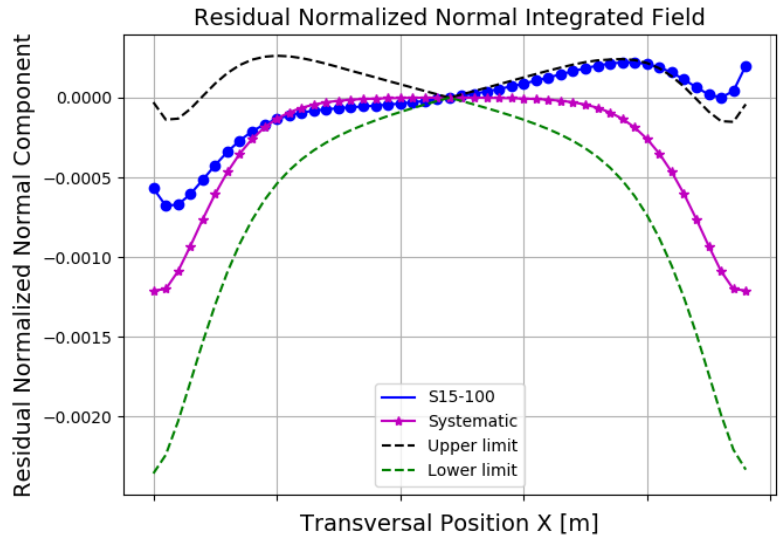
Electric Parameters

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)	(6 ± 1) x E-5	(-2.5 ± 0.4) x E-4
2 (quadrupole)	(-2.05 ± 0.02) x E-3	(-3.24 ± 0.03) x E-3
3 (sextupole)	(1.00000 ± 0.00002)	(-2.0 ± 0.6) x E-4
4	(2.7 ± 0.3) x E-4	(-4 ± 3) x E-5
5	(3.1 ± 0.2) x E-4	(-2.3 ± 40.9) x E-6
6	(9 ± 4) x E-5	(-2.8 ± 30.4) x E-6
7	(6 ± 3) x E-5	(-2 ± 3) x E-5
8	(3 ± 2) x E-5	(1.0 ± 0.2) x E-4
9	(-1.81 ± 0.02) x E-3	(8.6 ± 0.5) x E-4
10	(1 ± 3) x E-5	(3 ± 3) x E-5
11	(-3 ± 2) x E-5	(-2 ± 3) x E-5
12	(-2 ± 4) x E-5	(-1 ± 4) x E-5
13	(-3 ± 2) x E-5	(-3 ± 4) x E-5
14	(-3.33 ± 242.54) x E-7	(-7 ± 2) x E-5
15	(1.32 ± 0.06) x E-3	(-5 ± 4) x E-5

