



S15-059

STORAGE RING MAGNET REPORT

Results

Date 16/07/2018

Hour 11:51:33

Temperature [°C] 23.544

Number of Measurements 9

Main Coil Current [A] (167.7968 ± 0.0010)

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] (-359.073 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (23.52 ± 0.06)

Magnet Center Offset Y [μm] - (< ±40.0) (21.0 ± 0.1)

Roll [mrad] - (< ±0.3) (-7.4 ± 0.6) × E-2

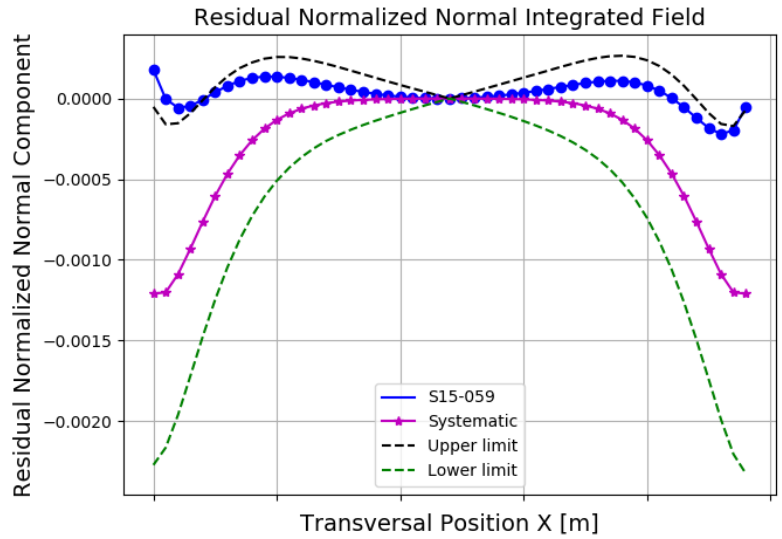
Electric Parameters

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)	(-7.28 ± 0.08) × E-4	(-9.2 ± 0.2) × E-4
2 (quadrupole)	(-3.920 ± 0.010) × E-3	(-3.50 ± 0.02) × E-3
3 (sextupole)	(1.000000 ± 0.000009)	(-2.2 ± 0.2) × E-4
4	(2 ± 1) × E-5	(1.1 ± 0.4) × E-4
5	(5.1 ± 0.2) × E-4	(1.4 ± 0.2) × E-4
6	(-1.3 ± 0.3) × E-4	(-4 ± 2) × E-5
7	(2.2 ± 0.2) × E-4	(-1 ± 2) × E-5
8	(5.4 ± 16.2) × E-6	(1 ± 3) × E-5
9	(-2.00 ± 0.02) × E-3	(5.8 ± 0.3) × E-4
10	(9 ± 9) × E-6	(-3 ± 4) × E-5
11	(-2.43 ± 219.52) × E-7	(-3 ± 2) × E-5
12	(-1 ± 3) × E-5	(1 ± 3) × E-5
13	(-8 ± 3) × E-5	(2 ± 3) × E-5
14	(-7.3 ± 14.8) × E-6	(-2.1 ± 25.6) × E-6
15	(1.42 ± 0.02) × E-3	(-1.1 ± 0.3) × E-4

