



S15-081

STORAGE RING MAGNET REPORT

Results

Date 12/07/2018

Hour 09:43:40

Temperature [°C] 22.891

Number of Measurements 9

Main Coil Current [A] (167.7981 ± 0.0007)

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] (-359.251 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (27.67 ± 0.05)

Magnet Center Offset Y [μm] - (< ±40.0) (26.74 ± 0.07)

Roll [mrad] - (< ±0.3) (-1.2 ± 0.4) × E-2

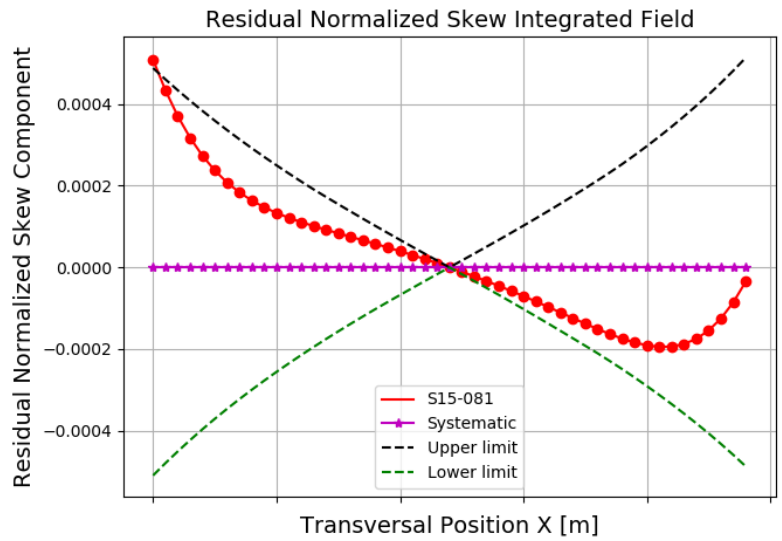
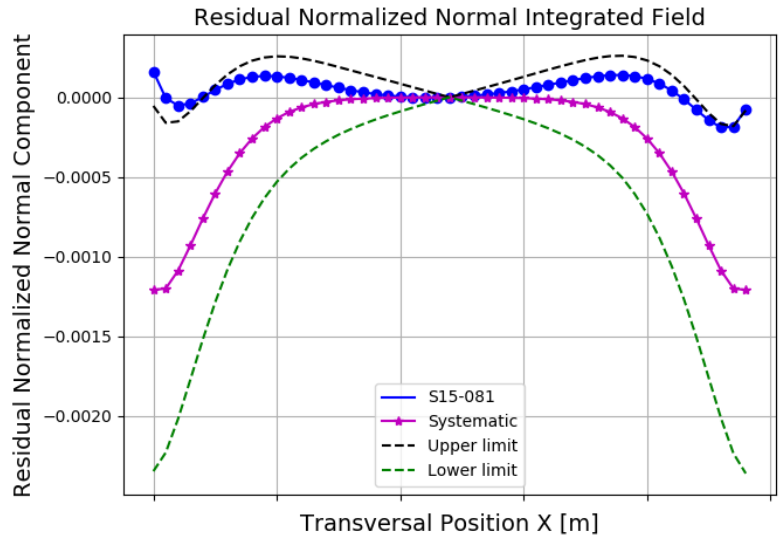
Electric Parameters

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)	(-7.16 ± 0.04) × E-4	(1.9 ± 0.1) × E-4
2 (quadrupole)	(-4.612 ± 0.009) × E-3	(-4.46 ± 0.01) × E-3
3 (sextupole)	(1.000000 ± 0.000010)	(-3 ± 1) × E-5
4	(7 ± 1) × E-5	(-2.54 ± 0.09) × E-4
5	(5.54 ± 0.07) × E-4	(-1.0 ± 0.2) × E-4
6	(-2.16 ± 0.07) × E-4	(-3.7 ± 1.0) × E-5
7	(1.9 ± 0.1) × E-4	(1.4 ± 14.6) × E-6
8	(7 ± 1) × E-5	(3 ± 1) × E-5
9	(-1.939 ± 0.009) × E-3	(3.6 ± 0.2) × E-4
10	(3 ± 1) × E-5	(-1.6 ± 0.5) × E-5
11	(-3 ± 1) × E-5	(1 ± 2) × E-5
12	(-7 ± 8) × E-6	(2.7 ± 1.0) × E-5
13	(-3 ± 1) × E-5	(3.3 ± 12.9) × E-6
14	(-6 ± 1) × E-5	(-2 ± 1) × E-5
15	(1.30 ± 0.01) × E-3	(-4 ± 1) × E-5