



S15-021

STORAGE RING MAGNET REPORT

Results

Date 10/08/2018

Hour 12:39:05

Temperature [°C] 23.352

Number of Measurements 9

Main Coil Current [A] (167.7980 ± 0.0009)

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] (-359.755 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (22.42 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (23.34 ± 0.02)

Roll [mrad] - (< ±0.3) (7.4 ± 0.1) × E-2

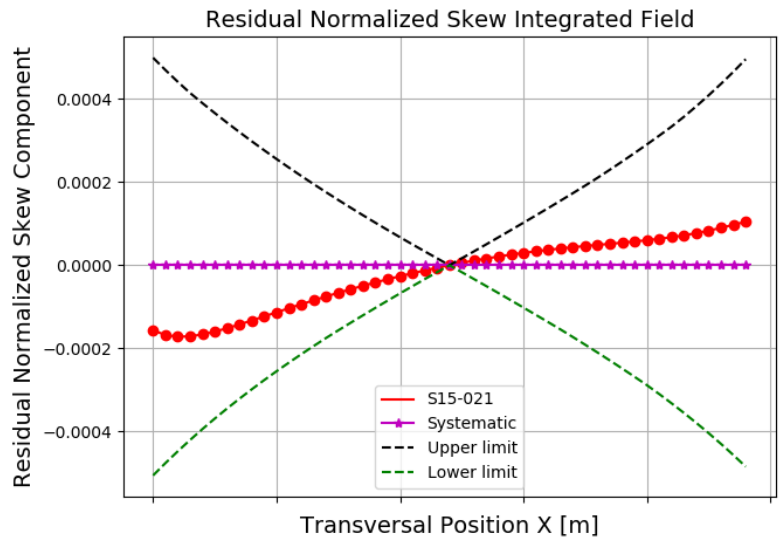
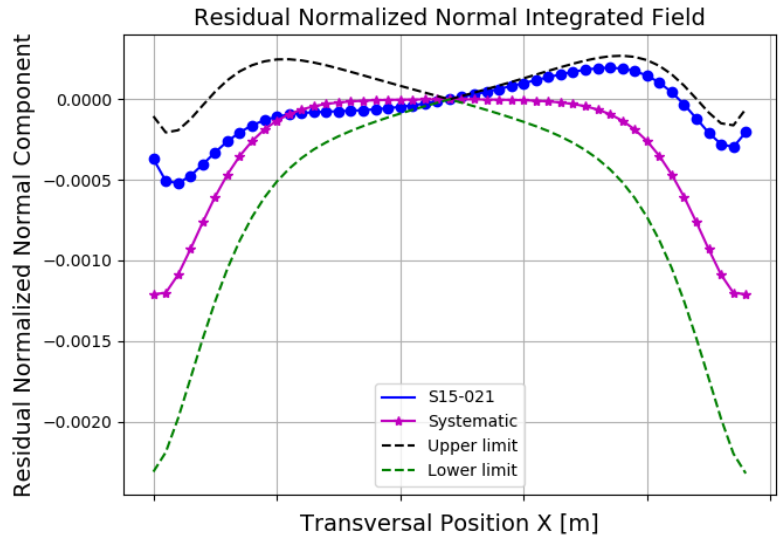
Electric Parameters

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)	(-2.24 ± 0.05) × E-4	(2.21 ± 0.07) × E-4
2 (quadrupole)	(-3.737 ± 0.003) × E-3	(-3.889 ± 0.004) × E-3
3 (sextupole)	(1.000000 ± 0.000007)	(2.23 ± 0.04) × E-4
4	(3.41 ± 0.02) × E-4	(1.42 ± 0.03) × E-4
5	(3.14 ± 0.03) × E-4	(-9.4 ± 0.6) × E-5
6	(-2.55 ± 0.03) × E-4	(-3 ± 6) × E-6
7	(1.09 ± 0.04) × E-4	(6 ± 6) × E-6
8	(2.6 ± 0.5) × E-5	(2.1 ± 0.5) × E-5
9	(-2.023 ± 0.005) × E-3	(4.9 ± 0.5) × E-5
10	(-7 ± 5) × E-6	(5 ± 6) × E-6
11	(-7 ± 6) × E-6	(-6 ± 4) × E-6
12	(1.3 ± 0.3) × E-5	(7.3 ± 52.7) × E-7
13	(-2.0 ± 0.5) × E-5	(1.1 ± 0.5) × E-5
14	(-3.4 ± 0.6) × E-5	(-3.5 ± 0.4) × E-5
15	(1.340 ± 0.005) × E-3	(7 ± 5) × E-6