



S15-269

STORAGE RING MAGNET REPORT

Results

Date 06/07/2018

Hour 11:42:25

Temperature [°C] 23.676

Number of Measurements 9

Main Coil Current [A] (167.7977 ± 0.0008)

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] (-359.750 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (11.14 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (22.22 ± 0.04)

Roll [mrad] - (< ±0.3) (4.7 ± 0.4) × E-2

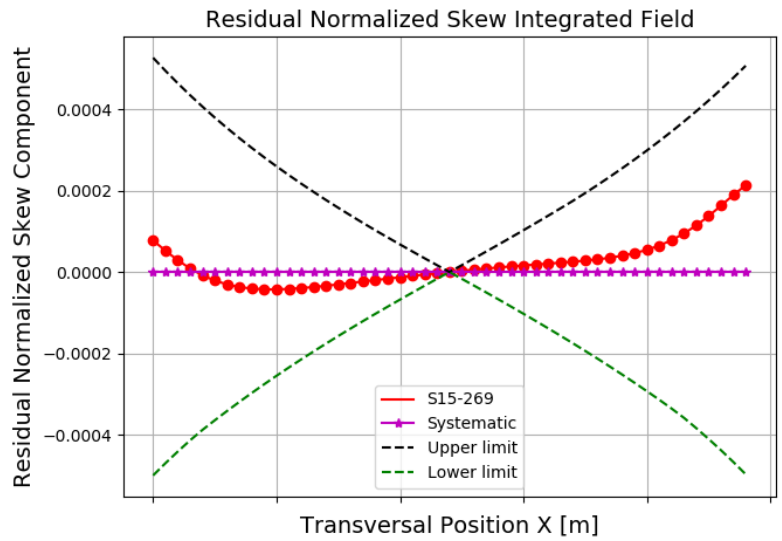
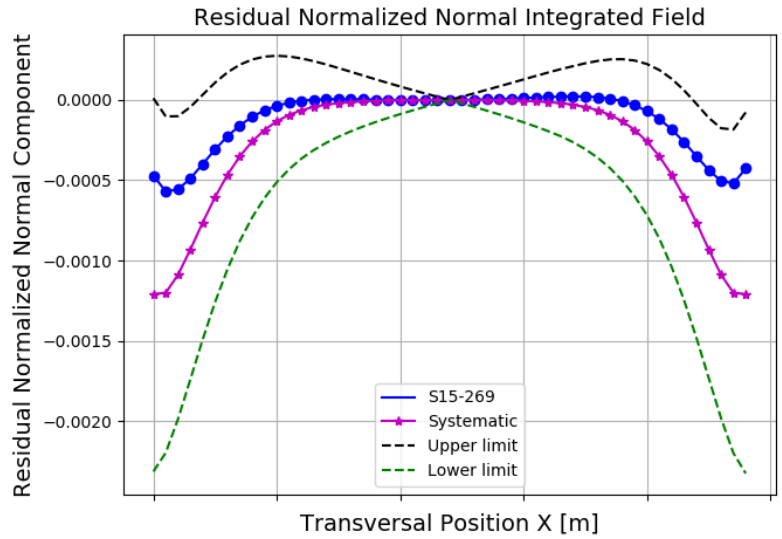
Electric Parameters

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 <sup>(2-n)</sup> ]	Normalized Skew Multipoles x=12.0 mm [T.m <sup>(2-n)</sup> ]
1 (dipole)	(-1.078 ± 0.004) × E-3	(3.06 ± 0.08) × E-4
2 (quadrupole)	(-1.857 ± 0.004) × E-3	(-3.703 ± 0.006) × E-3
3 (sextupole)	(1.000000 ± 0.000008)	(1.4 ± 0.1) × E-4
4	(1.8 ± 0.9) × E-5	(7.3 ± 0.9) × E-5
5	(1.24 ± 0.07) × E-4	(-3 ± 1) × E-5
6	(1.7 ± 0.8) × E-5	(-1.5 ± 0.5) × E-5
7	(8 ± 1) × E-5	(-1.5 ± 0.7) × E-5
8	(5.7 ± 11.1) × E-6	(3 ± 1) × E-5
9	(-1.914 ± 0.009) × E-3	(2.7 ± 0.1) × E-4
10	(5.7 ± 10.1) × E-6	(-3.3 ± 10.8) × E-6
11	(8 ± 6) × E-6	(-10 ± 9) × E-6
12	(-1 ± 1) × E-5	(2 ± 1) × E-5
13	(-3.2 ± 0.8) × E-5	(5 ± 10) × E-6
14	(-1 ± 1) × E-5	(-3 ± 1) × E-5
15	(1.28 ± 0.01) × E-3	(-8 ± 1) × E-5