



S15-232

STORAGE RING MAGNET REPORT

Results

Date 10/07/2018

Hour 15:55:44

Temperature [°C] 23.744

Number of Measurements 9

Main Coil Current [A] (167.798 ± 0.002)

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] (-359.847 ± 0.004)

Magnet Center Offset X [μm] - (< ±40.0) (9.92 ± 0.05)

Magnet Center Offset Y [μm] - (< ±40.0) (28.1 ± 0.2)

Roll [mrad] - (< ±0.3) (-6 ± 1) × E-2

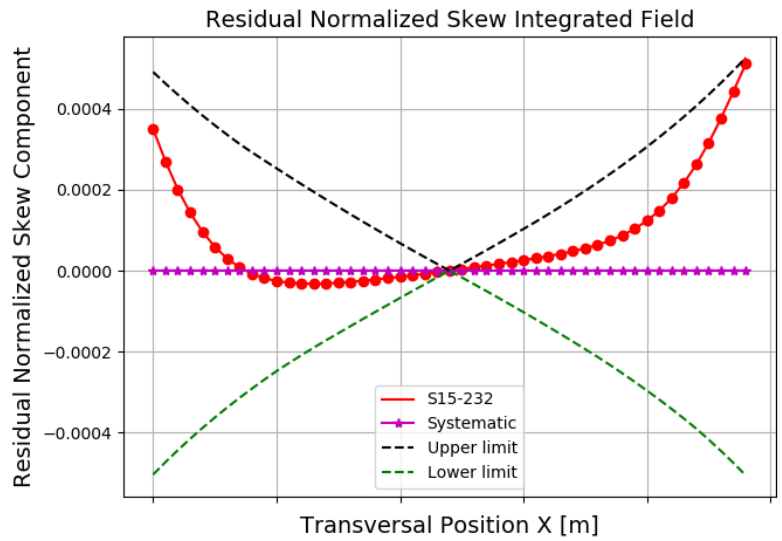
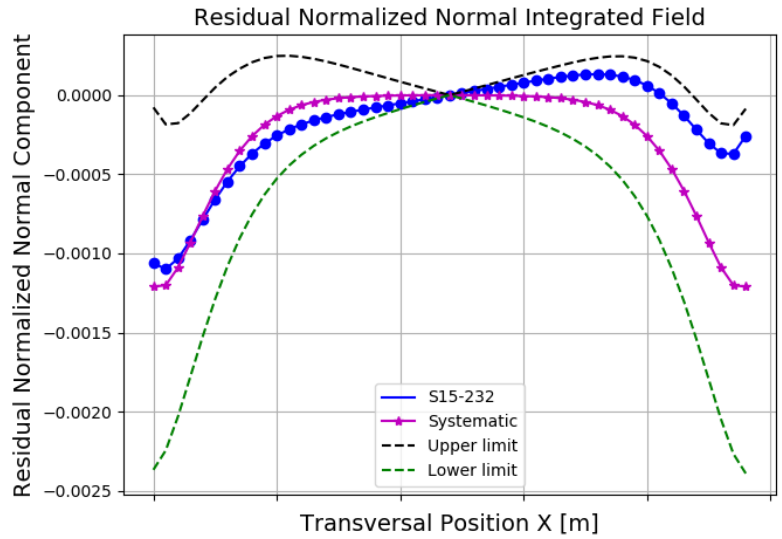
Electric Parameters

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)	(-5.12 ± 0.07) × E-4	(2 ± 3) × E-5
2 (quadrupole)	(-1.654 ± 0.009) × E-3	(-4.68 ± 0.03) × E-3
3 (sextupole)	(1.00000 ± 0.00002)	(-1.7 ± 0.4) × E-4
4	(3.1 ± 0.1) × E-4	(10 ± 2) × E-5
5	(1 ± 2) × E-5	(3 ± 3) × E-5
6	(3 ± 2) × E-5	(-9.4 ± 15.7) × E-6
7	(3 ± 2) × E-5	(5.1 ± 21.1) × E-6
8	(-4 ± 2) × E-5	(4 ± 2) × E-5
9	(-2.01 ± 0.01) × E-3	(5.1 ± 0.2) × E-4
10	(5 ± 2) × E-5	(-1.4 ± 17.4) × E-6
11	(1 ± 2) × E-5	(-1 ± 2) × E-5
12	(4 ± 3) × E-5	(-7.16 ± 133.04) × E-7
13	(-2 ± 2) × E-5	(-1.4 ± 29.3) × E-6
14	(9.5 ± 21.8) × E-6	(-4 ± 2) × E-5
15	(1.32 ± 0.02) × E-3	(-10 ± 3) × E-5