



S15-222

STORAGE RING MAGNET REPORT

Results

Date 30/07/2018

Hour 16:58:04

Temperature [°C] 23.112

Number of Measurements 9

Main Coil Current [A] (167.7995 ± 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] (-359.730 ± 0.007)

Magnet Center Offset X [μm] - (< ±40.0) (19.00 ± 0.09)

Magnet Center Offset Y [μm] - (< ±40.0) (21.1 ± 0.2)

Roll [mrad] - (< ±0.3) (6 ± 1) × E-2

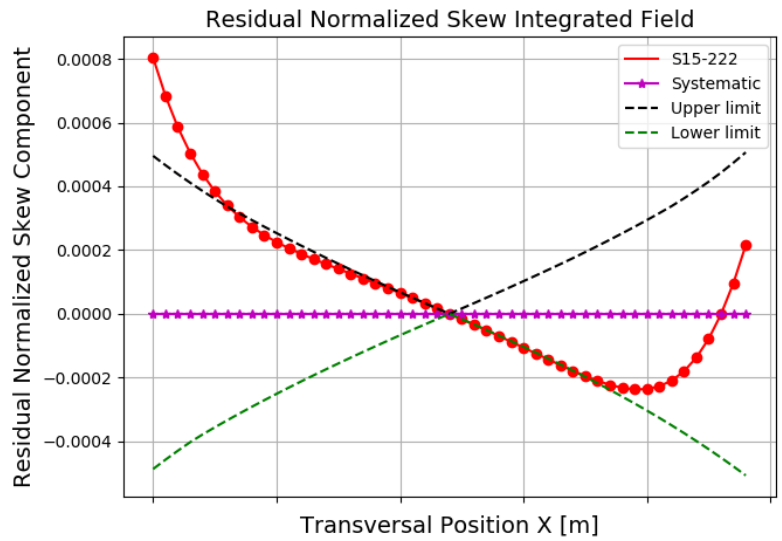
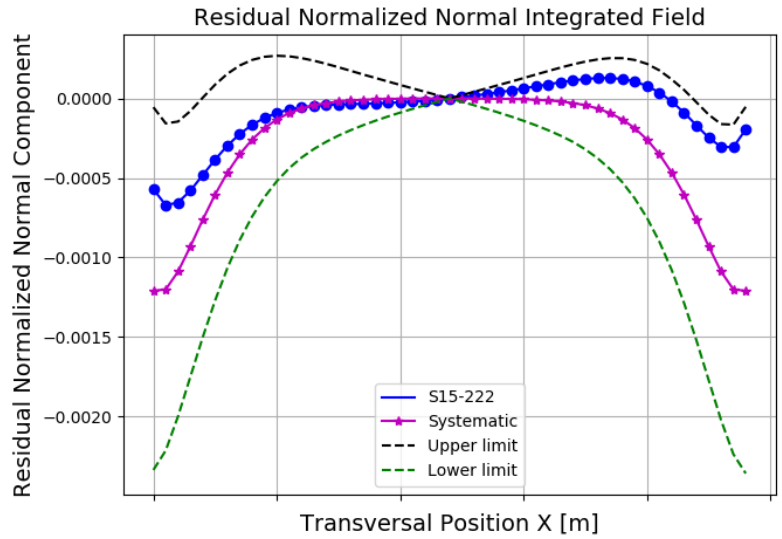
Electric Parameters

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)	(2.60 ± 0.08) × E-4	(-6 ± 4) × E-5
2 (quadrupole)	(-3.17 ± 0.02) × E-3	(-3.51 ± 0.04) × E-3
3 (sextupole)	(1.00000 ± 0.00003)	(1.7 ± 0.3) × E-4
4	(1.9 ± 0.3) × E-4	(-4.0 ± 0.4) × E-4
5	(2.6 ± 0.2) × E-4	(-8 ± 5) × E-5
6	(-4 ± 2) × E-5	(-1 ± 4) × E-5
7	(3 ± 2) × E-5	(-1 ± 3) × E-5
8	(2 ± 3) × E-5	(1.3 ± 0.4) × E-4
9	(-1.98 ± 0.02) × E-3	(6.8 ± 0.4) × E-4
10	(5 ± 4) × E-5	(3 ± 5) × E-5
11	(-3 ± 2) × E-5	(-4 ± 4) × E-5
12	(2 ± 4) × E-5	(8.8 ± 20.0) × E-6
13	(2.7 ± 22.7) × E-6	(-1 ± 5) × E-5
14	(-6 ± 3) × E-5	(-5 ± 3) × E-5
15	(1.33 ± 0.03) × E-3	(-3 ± 4) × E-5