



S15-036

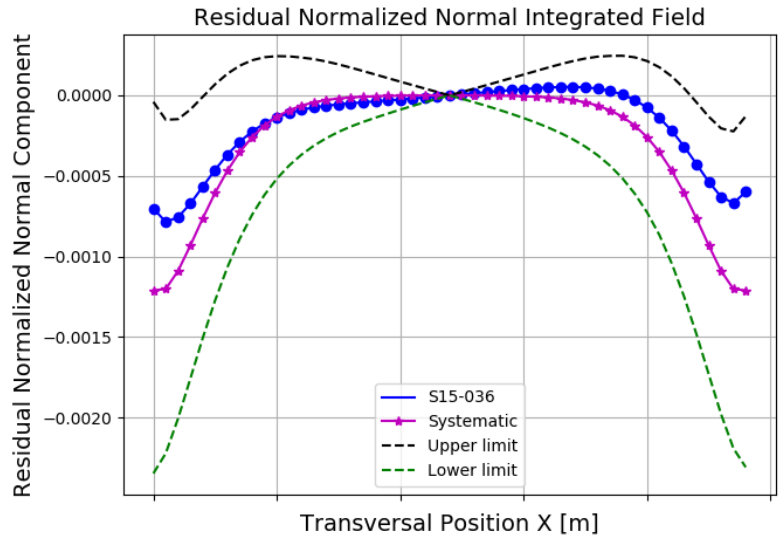
STORAGE RING MAGNET REPORT

Results

Date	13/08/2018
Hour	12:00:58
Temperature [°C]	23.359
Number of Measurements	9
Main Coil Current [A]	(167.801 ± 0.009)
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]	(-359.189 ± 0.003)
Magnet Center Offset X [μm] - (< ±40.0)	(13.49 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(24.25 ± 0.05)
Roll [mrad] - (< ±0.3)	(3.61 ± 0.02) x E-1

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⁾]
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1 (dipole)	(-7.74 ± 0.06) x E-4	(5.52 ± 0.08) x E-4
2 (quadrupole)	(-2.248 ± 0.004) x E-3	(-4.042 ± 0.009) x E-3
3 (sextupole)	(1.00000 ± 0.00001)	(1.082 ± 0.007) x E-3
4	(1.59 ± 0.08) x E-4	(-1.46 ± 0.08) x E-4
5	(1.8 ± 0.7) x E-5	(-1.02 ± 0.09) x E-4
6	(-1.13 ± 0.08) x E-4	(-3.9 ± 1.0) x E-5
7	(5.6 ± 0.9) x E-5	(-1 ± 1) x E-5
8	(8 ± 9) x E-6	(3 ± 1) x E-5
9	(-2.035 ± 0.008) x E-3	(8 ± 1) x E-5
10	(-6.1 ± 57.2) x E-7	(3 ± 8) x E-6
11	(-5.2 ± 68.4) x E-7	(-1.1 ± 0.6) x E-5
12	(3.9 ± 12.7) x E-6	(3 ± 8) x E-6
13	(-10 ± 8) x E-6	(1.5 ± 0.3) x E-5
14	(-7 ± 10) x E-6	(-4.4 ± 1.0) x E-5
15	(1.32 ± 0.01) x E-3	(2 ± 1) x E-5

