



S15-027

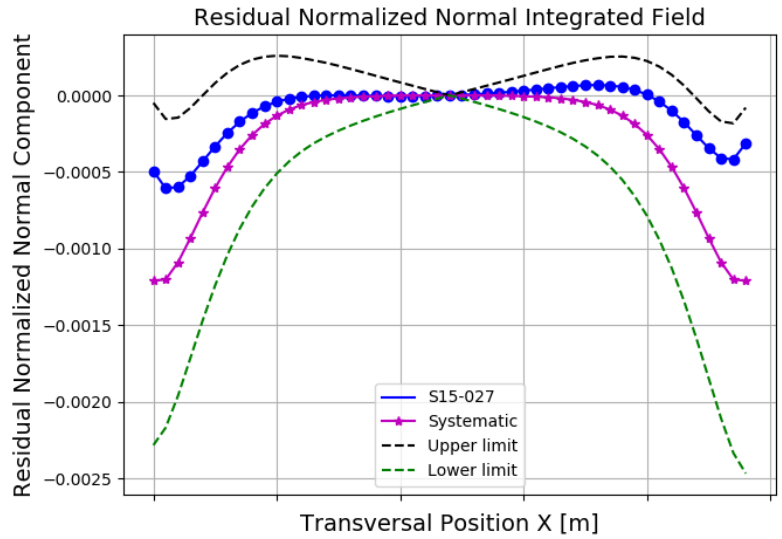
STORAGE RING MAGNET REPORT

Results

Date	16/08/2018
Hour	15:51:08
Temperature [°C]	23.386
Number of Measurements	9
Main Coil Current [A]	(167.796 ± 0.001)
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]	(-360.070 ± 0.003)
Magnet Center Offset X [μm] - (< ±40.0)	(29.37 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(34.0 ± 0.1)
Roll [mrad] - (< ±0.3)	(2.00 ± 0.08) 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)	(3.44 ± 0.05) x E-4	(-4.0 ± 0.3) x E-4
2 (quadrupole)	(-4.895 ± 0.005) x E-3	(-5.67 ± 0.02) x E-3
3 (sextupole)	(1.00000 ± 0.00001)	(6.0 ± 0.3) x E-4
4	(6.4 ± 0.7) x E-5	(6.4 ± 0.2) x E-4
5	(2.2 ± 0.1) x E-4	(-1.1 ± 0.3) x E-4
6	(4 ± 2) x E-5	(-3 ± 2) x E-5
7	(8 ± 2) x E-5	(2 ± 2) x E-5
8	(3 ± 2) x E-5	(-2 ± 2) x E-5
9	(-2.06 ± 0.02) x E-3	(2.4 ± 0.4) x E-4
10	(-3 ± 9) x E-6	(-7.4 ± 31.2) x E-6
11	(1.83 ± 200.75) x E-7	(-6.2 ± 17.1) x E-6
12	(-7.1 ± 21.2) x E-6	(2 ± 2) x E-5
13	(-3 ± 2) x E-5	(2.0 ± 13.9) x E-6
14	(-4 ± 2) x E-5	(-2 ± 1) x E-5
15	(1.38 ± 0.01) x E-3	(9 ± 1) x E-5

