



S15-137

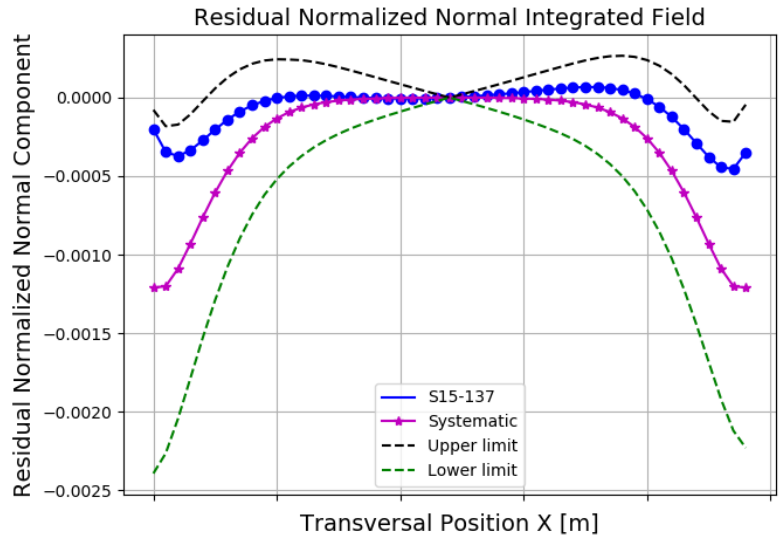
STORAGE RING MAGNET REPORT

Results

Date	14/08/2018
Hour	14:46:42
Temperature [°C]	23.333
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]	(-360.525 ± 0.003)
Magnet Center Offset X [μm] - (< ±40.0)	(8.68 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(22.7 ± 0.1)
Roll [mrad] - (< ±0.3)	(1.66 ± 0.07) 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)	(-4.69 ± 0.07) x E-4	(-2.8 ± 0.2) x E-4
2 (quadrupole)	(-1.447 ± 0.006) x E-3	(-3.78 ± 0.02) x E-3
3 (sextupole)	(1.00000 ± 0.00001)	(5.0 ± 0.2) x E-4
4	(8.2 ± 0.5) x E-5	(3.1 ± 0.2) x E-4
5	(2.62 ± 0.07) x E-4	(1.9 ± 0.2) x E-4
6	(-1.06 ± 0.08) x E-4	(-1.59 ± 137.49) x E-7
7	(6.0 ± 0.8) x E-5	(-6 ± 2) x E-5
8	(-4 ± 10) x E-6	(-2 ± 1) x E-5
9	(-1.91 ± 0.01) x E-3	(2.6 ± 0.1) x E-4
10	(-5.7 ± 0.4) x E-5	(2 ± 1) x E-5
11	(-1.4 ± 0.8) x E-5	(-4 ± 1) x E-5
12	(-4 ± 7) x E-6	(1.5 ± 15.4) x E-6
13	(3.2 ± 0.5) x E-5	(2 ± 1) x E-5
14	(1.4 ± 0.6) x E-5	(1.3 ± 13.8) x E-6
15	(1.292 ± 0.005) x E-3	(-2 ± 1) x E-5

