



S15-015

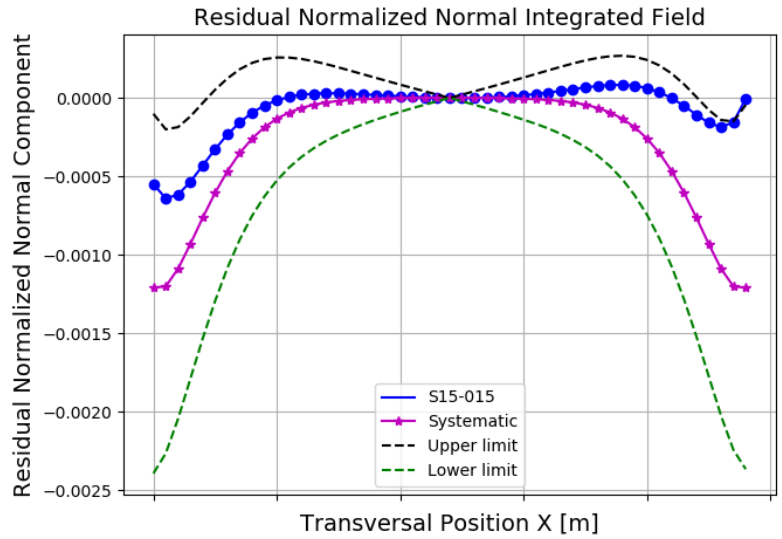
STORAGE RING MAGNET REPORT

Results

Date	10/08/2018
Hour	11:14:22
Temperature [°C]	23.395
Number of Measurements	9
Main Coil Current [A]	(167.799 ± 0.005)
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]	(-360.040 ± 0.002)
Magnet Center Offset X [μm] - (< ±40.0)	(17.35 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(25.36 ± 0.02)
Roll [mrad] - (< ±0.3)	(1.13 ± 0.01) 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⁾]
1 (dipole)	(-6.75 ± 0.04) x E-4	(9.28 ± 0.04) x E-4
2 (quadrupole)	(-2.892 ± 0.005) x E-3	(-4.227 ± 0.004) x E-3
3 (sextupole)	(1.000000 ± 0.000006)	(3.38 ± 0.03) x E-4
4	(-2.5 ± 0.4) x E-5	(2.22 ± 0.05) x E-4
5	(2.88 ± 0.03) x E-4	(-2 ± 5) x E-6
6	(3.22 ± 0.05) x E-4	(-7 ± 4) x E-6
7	(1.12 ± 0.03) x E-4	(-6.7 ± 0.4) x E-5
8	(-5 ± 3) x E-6	(2.7 ± 0.6) x E-5
9	(-2.011 ± 0.004) x E-3	(3.7 ± 0.5) x E-5
10	(1.0 ± 0.4) x E-5	(1.1 ± 0.6) x E-5
11	(1.1 ± 0.3) x E-5	(-4 ± 5) x E-6
12	(-1.3 ± 0.5) x E-5	(-6 ± 5) x E-6
13	(-1.3 ± 0.5) x E-5	(2.1 ± 0.5) x E-5
14	(-1.9 ± 0.5) x E-5	(-4.5 ± 0.3) x E-5
15	(1.336 ± 0.004) x E-3	(1.4 ± 0.5) x E-5

