



S15-035

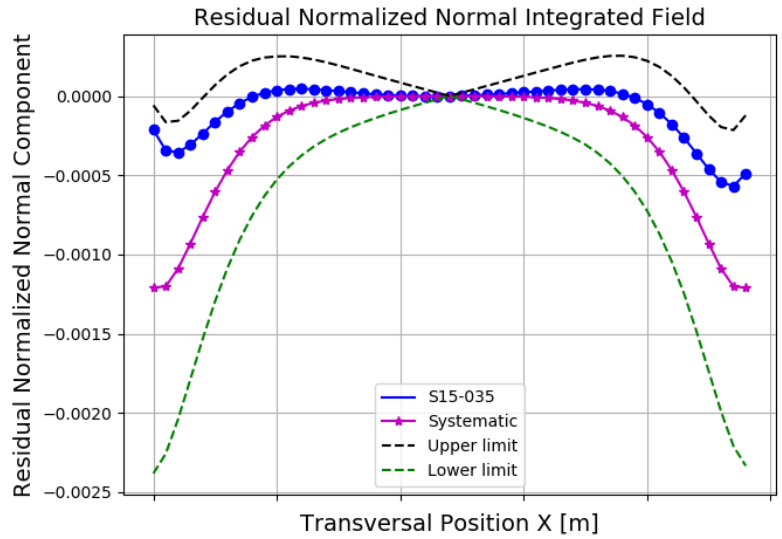
STORAGE RING MAGNET REPORT

Results

Date	13/08/2018
Hour	10:51:08
Temperature [°C]	23.296
Number of Measurements	9
Main Coil Current [A]	(167.797 ± 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]	(-359.245 ± 0.002)
Magnet Center Offset X [μm] - (< ±40.0)	(14.86 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(24.81 ± 0.04)
Roll [mrad] - (< ±0.3)	(2.64 ± 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⁾]
1 (dipole)	(-1.06 ± 0.03) x E-4	(1.36 ± 0.09) x E-4
2 (quadrupole)	(-2.476 ± 0.004) x E-3	(-4.135 ± 0.007) x E-3
3 (sextupole)	(1.000000 ± 0.000009)	(7.91 ± 0.05) x E-4
4	(3.4 ± 0.5) x E-5	(-10 ± 7) x E-6
5	(2.72 ± 0.02) x E-4	(-2.77 ± 0.09) x E-4
6	(-1.54 ± 0.05) x E-4	(-3.0 ± 0.8) x E-5
7	(1.03 ± 0.03) x E-4	(6.8 ± 0.6) x E-5
8	(2 ± 5) x E-6	(4.4 ± 0.7) x E-5
9	(-2.050 ± 0.005) x E-3	(7.0 ± 0.6) x E-5
10	(4 ± 4) x E-6	(-5 ± 7) x E-6
11	(8 ± 7) x E-6	(1.3 ± 0.9) x E-5
12	(-3 ± 5) x E-6	(-4 ± 6) x E-6
13	(-1.1 ± 0.5) x E-5	(-5 ± 7) x E-6
14	(-1.9 ± 0.5) x E-5	(-2.6 ± 0.7) x E-5
15	(1.328 ± 0.006) x E-3	(1.4 ± 0.6) x E-5

