



S15-016

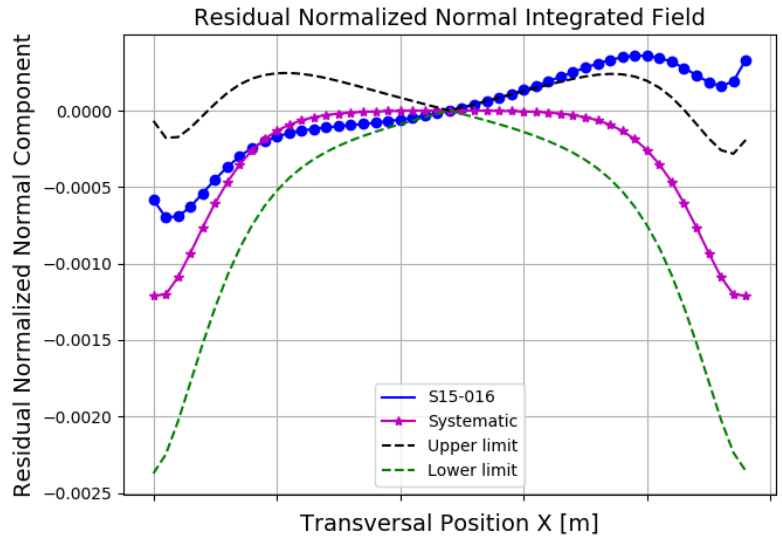
STORAGE RING MAGNET REPORT

Results

Date	10/08/2018
Hour	14:42:34
Temperature [°C]	23.475
Number of Measurements	9
Main Coil Current [A]	(167.798 ± 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]	(-359.328 ± 0.002)
Magnet Center Offset X [μm] - (< ±40.0)	(15.68 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(26.11 ± 0.02)
Roll [mrad] - (< ±0.3)	(1.33 ± 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)	(3.15 ± 0.03) x E-4	(3.0 ± 0.3) x E-5
2 (quadrupole)	(-2.613 ± 0.004) x E-3	(-4.352 ± 0.003) x E-3
3 (sextupole)	(1.000000 ± 0.000006)	(3.99 ± 0.04) x E-4
4	(4.24 ± 0.04) x E-4	(2.16 ± 0.03) x E-4
5	(4.46 ± 0.04) x E-4	(-6 ± 5) x E-6
6	(5.5 ± 0.4) x E-5	(-1.8 ± 0.5) x E-5
7	(1.26 ± 0.05) x E-4	(-3.3 ± 0.5) x E-5
8	(2.1 ± 0.3) x E-5	(1 ± 4) x E-6
9	(-1.997 ± 0.004) x E-3	(4.8 ± 0.4) x E-5
10	(-1.3 ± 0.5) x E-5	(1.1 ± 0.4) x E-5
11	(-6 ± 4) x E-6	(-9 ± 5) x E-6
12	(-3 ± 5) x E-6	(2 ± 4) x E-6
13	(-1.9 ± 0.4) x E-5	(1.9 ± 0.4) x E-5
14	(-2.5 ± 0.5) x E-5	(-3.2 ± 0.5) x E-5
15	(1.324 ± 0.005) x E-3	(-2.3 ± 36.7) x E-7

