



S15-004

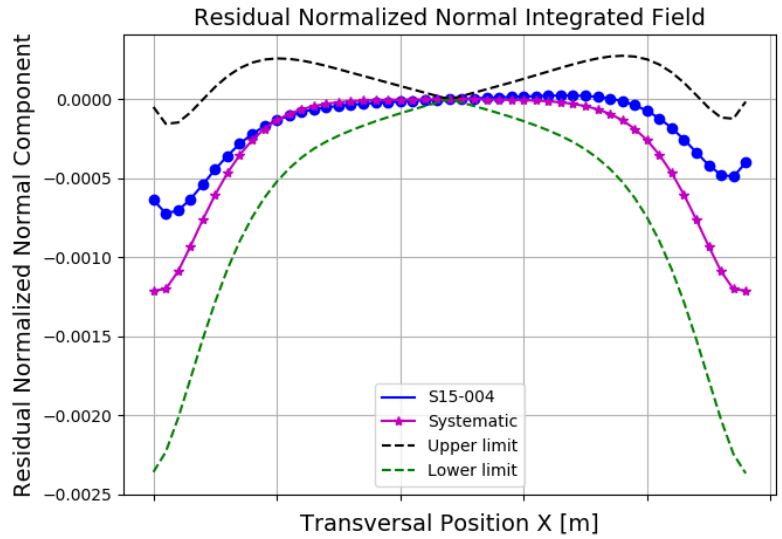
STORAGE RING MAGNET REPORT

Results

Date	31/08/2018
Hour	11:52:35
Temperature [°C]	23.377
Number of Measurements	9
Main Coil Current [A]	(167.7973 ± 0.0010)
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]	(-360.389 ± 0.002)
Magnet Center Offset X [μm] - (< ±40.0)	(18.37 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(31.8 ± 0.2)
Roll [mrad] - (< ±0.3)	(-1.0 ± 0.1) × 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)	(-1.430 ± 0.006) × E-3	(3.0 ± 0.4) × E-4
2 (quadrupole)	(-3.062 ± 0.005) × E-3	(-5.30 ± 0.03) × E-3
3 (sextupole)	(1.000000 ± 0.000009)	(-3.0 ± 0.3) × E-4
4	(7.5 ± 0.6) × E-5	(2.1 ± 0.3) × E-4
5	(-3.9 ± 0.9) × E-5	(7 ± 3) × E-5
6	(9 ± 1) × E-5	(-3 ± 3) × E-5
7	(5.2 ± 0.6) × E-5	(-5 ± 2) × E-5
8	(-9.2 ± 10.4) × E-6	(5 ± 2) × E-5
9	(-1.687 ± 0.008) × E-3	(5.8 ± 0.2) × E-4
10	(-8.9 ± 22.3) × E-6	(-4 ± 2) × E-5
11	(5.46 ± 171.39) × E-7	(-2 ± 3) × E-5
12	(-3 ± 2) × E-5	(5.5 ± 22.1) × E-6
13	(-1 ± 1) × E-5	(1 ± 1) × E-5
14	(2.5 ± 11.3) × E-6	(-5 ± 3) × E-5
15	(1.17 ± 0.02) × E-3	(-2.8 ± 0.3) × E-4

