



S15-018

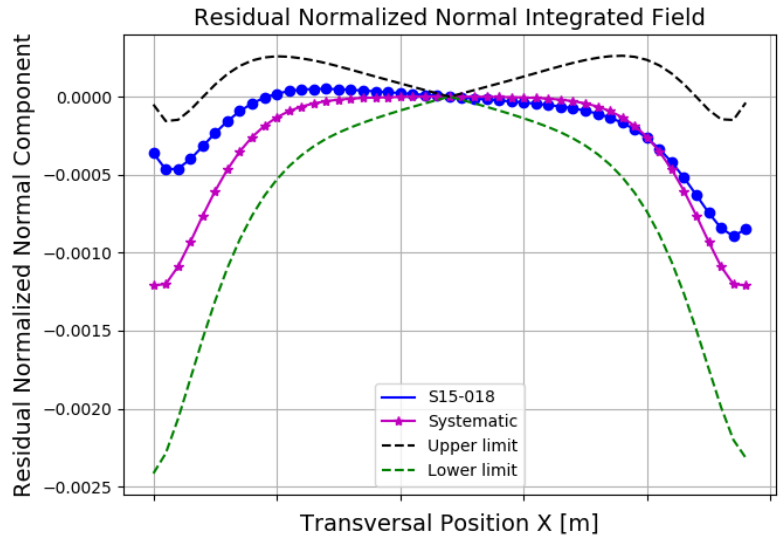
STORAGE RING MAGNET REPORT

Results

Date	30/08/2018
Hour	11:24:13
Temperature [°C]	23.377
Number of Measurements	9
Main Coil Current [A]	(167.7970 ± 0.0008)
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]	(-359.542 ± 0.002)
Magnet Center Offset X [μm] - (< ±40.0)	(26.44 ± 0.04)
Magnet Center Offset Y [μm] - (< ±40.0)	(32.2 ± 0.1)
Roll [mrad] - (< ±0.3)	(-1.13 ± 0.08) 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)	(-8.31 ± 0.03) x E-4	(7.9 ± 0.3) x E-4
2 (quadrupole)	(-4.407 ± 0.006) x E-3	(-5.37 ± 0.02) x E-3
3 (sextupole)	(1.000000 ± 0.000008)	(-3.4 ± 0.2) x E-4
4	(-1.39 ± 0.05) x E-4	(4.0 ± 0.2) x E-4
5	(-2.2 ± 0.6) x E-5	(-10 ± 2) x E-5
6	(-6.3 ± 0.9) x E-5	(8.1 ± 19.0) x E-6
7	(2.5 ± 1.0) x E-5	(7.94 ± 185.80) x E-7
8	(10 ± 7) x E-6	(-6.9 ± 20.3) x E-6
9	(-1.805 ± 0.008) x E-3	(3.9 ± 0.1) x E-4
10	(-6.7 ± 14.4) x E-6	(2 ± 1) x E-5
11	(-5.94 ± 226.85) x E-7	(-4.9 ± 18.6) x E-6
12	(-1 ± 8) x E-6	(-2 ± 2) x E-5
13	(-2 ± 2) x E-5	(2 ± 2) x E-5
14	(-4 ± 1) x E-5	(-2 ± 2) x E-5
15	(1.21 ± 0.02) x E-3	(-1.6 ± 0.2) x E-4

