



S15-026

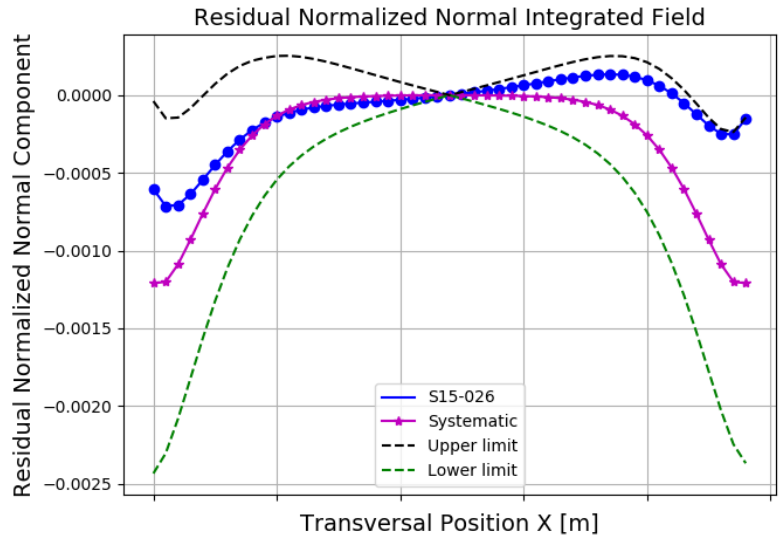
STORAGE RING MAGNET REPORT

Results

Date	03/09/2018
Hour	16:31:59
Temperature [°C]	23.117
Number of Measurements	9
Main Coil Current [A]	(167.798 ± 0.003)
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]	(-360.446 ± 0.002)
Magnet Center Offset X [μm] - (< ±40.0)	(30.17 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(33.4 ± 0.1)
Roll [mrad] - (< ±0.3)	(1.73 ± 0.06) 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)	(-3.27 ± 0.05) x E-4	(4.2 ± 0.2) x E-4
2 (quadrupole)	(-5.029 ± 0.005) x E-3	(-5.56 ± 0.02) x E-3
3 (sextupole)	(1.000000 ± 0.000009)	(5.2 ± 0.2) x E-4
4	(2.07 ± 0.08) x E-4	(4.1 ± 0.2) x E-4
5	(1.78 ± 0.05) x E-4	(-5 ± 2) x E-5
6	(6 ± 2) x E-5	(3.3 ± 16.4) x E-6
7	(6 ± 1) x E-5	(1.6 ± 16.9) x E-6
8	(4 ± 1) x E-5	(3 ± 2) x E-5
9	(-1.86 ± 0.01) x E-3	(3.6 ± 0.1) x E-4
10	(-1 ± 2) x E-5	(-1 ± 2) x E-5
11	(-1 ± 2) x E-5	(5.5 ± 12.6) x E-6
12	(-3 ± 2) x E-5	(-1 ± 2) x E-5
13	(-3.5 ± 11.2) x E-6	(-2.3 ± 18.9) x E-6
14	(-4 ± 2) x E-5	(-4 ± 1) x E-5
15	(1.26 ± 0.01) x E-3	(-1.6 ± 0.1) x E-4

