



S15-213

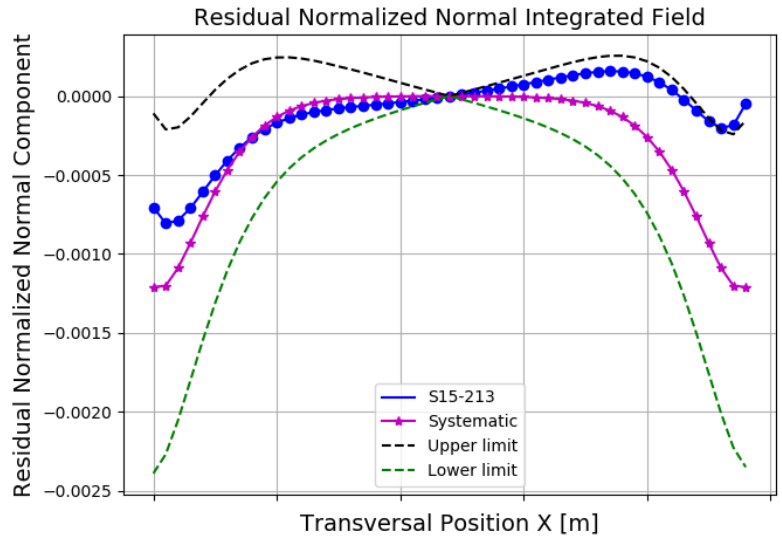
STORAGE RING MAGNET REPORT

Results

Date	15/08/2018
Hour	15:06:15
Temperature [°C]	23.169
Number of Measurements	9
Main Coil Current [A]	(167.797 ± 0.002)
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]	(-359.901 ± 0.003)
Magnet Center Offset X [μm] - (< ±40.0)	(13.30 ± 0.04)
Magnet Center Offset Y [μm] - (< ±40.0)	(18.9 ± 0.1)
Roll [mrad] - (< ±0.3)	(1.07 ± 0.04) 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⁾]
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1 (dipole)	(-3.51 ± 0.06) x E-4	(3.1 ± 0.1) x E-4
2 (quadrupole)	(-2.217 ± 0.007) x E-3	(-3.15 ± 0.02) x E-3
3 (sextupole)	(1.00000 ± 0.00001)	(3.2 ± 0.1) x E-4
4	(2.5 ± 0.1) x E-4	(-3.1 ± 0.2) x E-4
5	(1.68 ± 0.09) x E-4	(-9 ± 1) x E-5
6	(6 ± 1) x E-5	(-8.3 ± 11.1) x E-6
7	(1.2 ± 0.1) x E-4	(3.47 ± 127.55) x E-7
8	(3 ± 1) x E-5	(5.9 ± 0.8) x E-5
9	(-2.023 ± 0.009) x E-3	(1.1 ± 0.2) x E-4
10	(-2 ± 10) x E-6	(1 ± 1) x E-5
11	(2 ± 1) x E-5	(-1 ± 1) x E-5
12	(1 ± 9) x E-6	(-6 ± 9) x E-6
13	(-3 ± 1) x E-5	(6.4 ± 10.6) x E-6
14	(-2 ± 1) x E-5	(-5 ± 1) x E-5
15	(1.365 ± 0.009) x E-3	(5 ± 1) x E-5

