



S15-023

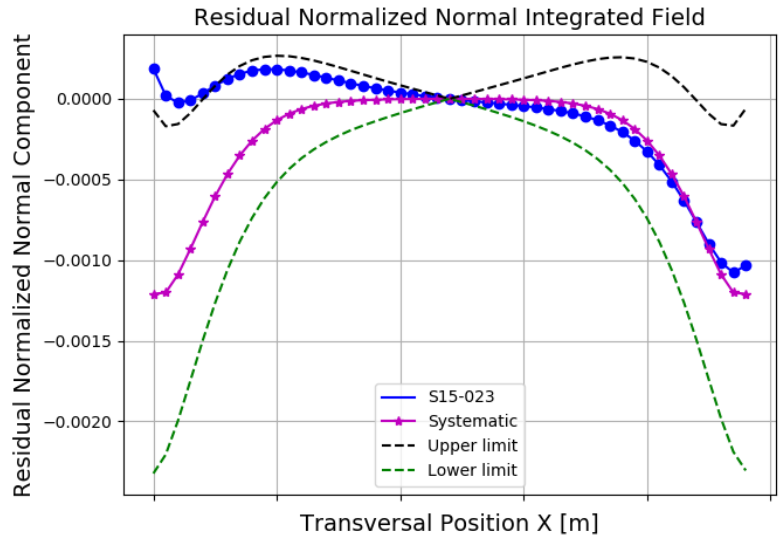
STORAGE RING MAGNET REPORT

Results

Date	10/08/2018
Hour	12:03:31
Temperature [°C]	23.371
Number of Measurements	9
Main Coil Current [A]	(167.798 ± 0.004)
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]	(-359.95 ± 0.01)
Magnet Center Offset X [μm] - (< ±40.0)	(24.47 ± 0.04)
Magnet Center Offset Y [μm] - (< ±40.0)	(21.9 ± 0.1)
Roll [mrad] - (< ±0.3)	(1.38 ± 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)	(-7.21 ± 0.02) x E-4	(-5.1 ± 0.2) x E-4
2 (quadrupole)	(-4.079 ± 0.007) x E-3	(-3.66 ± 0.02) x E-3
3 (sextupole)	(1.00000 ± 0.00004)	(4.1 ± 0.1) x E-4
4	(-1.94 ± 0.08) x E-4	(-9 ± 1) x E-5
5	(1.65 ± 0.07) x E-4	(-2 ± 2) x E-5
6	(-4.09 ± 0.07) x E-4	(8.7 ± 25.2) x E-6
7	(7 ± 2) x E-5	(2 ± 1) x E-5
8	(-3 ± 6) x E-6	(-2 ± 2) x E-5
9	(-1.97 ± 0.02) x E-3	(4.4 ± 0.8) x E-5
10	(1 ± 1) x E-5	(4 ± 3) x E-5
11	(-3.8 ± 16.1) x E-6	(-8.7 ± 21.4) x E-6
12	(3 ± 10) x E-6	(-8.6 ± 11.5) x E-6
13	(-1.1 ± 0.7) x E-5	(-4.5 ± 11.6) x E-6
14	(-2 ± 1) x E-5	(-1.6 ± 1.0) x E-5
15	(1.326 ± 0.009) x E-3	(2 ± 2) x E-5

