



S15-047

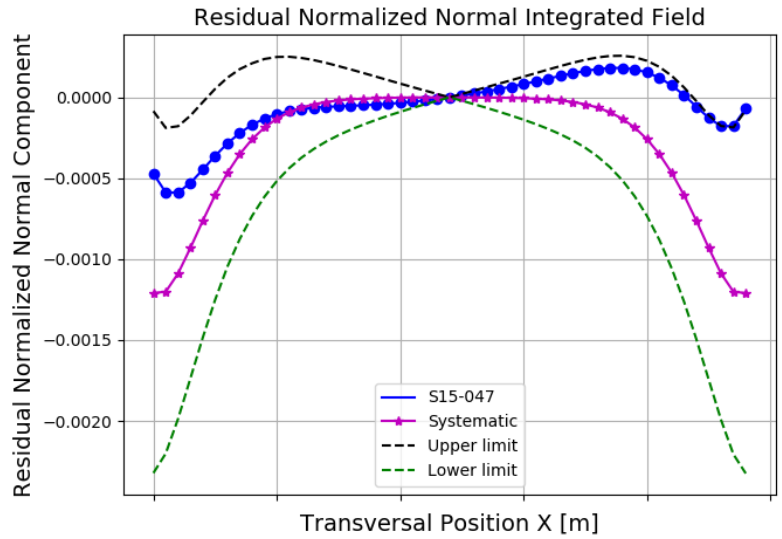
STORAGE RING MAGNET REPORT

Results

Date	11/07/2018
Hour	15:30:54
Temperature [°C]	23.038
Number of Measurements	9
Main Coil Current [A]	(167.7978 ± 0.0009)
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]	(-359.502 ± 0.003)
Magnet Center Offset X [μm] - (< ±40.0)	(23.46 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(27.13 ± 0.06)
Roll [mrad] - (< ±0.3)	(1.27 ± 0.03) 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)	(-4.7 ± 0.5) x E-5	(1.8 ± 1.0) x E-5
2 (quadrupole)	(-3.911 ± 0.005) x E-3	(-4.522 ± 0.009) x E-3
3 (sextupole)	(1.00000 ± 0.00001)	(3.8 ± 0.1) x E-4
4	(2.6 ± 0.1) x E-4	(8 ± 9) x E-6
5	(3.0 ± 0.1) x E-4	(-1.2 ± 0.2) x E-4
6	(-5 ± 2) x E-5	(-2 ± 1) x E-5
7	(1.1 ± 0.1) x E-4	(4 ± 2) x E-5
8	(4 ± 1) x E-5	(5 ± 2) x E-5
9	(-1.956 ± 0.008) x E-3	(3.32 ± 0.08) x E-4
10	(-1 ± 1) x E-5	(-2 ± 10) x E-6
11	(7.3 ± 11.5) x E-6	(2 ± 1) x E-5
12	(-9.4 ± 79.9) x E-7	(3.5 ± 12.8) x E-6
13	(-2 ± 1) x E-5	(-1.3 ± 0.9) x E-5
14	(-3.6 ± 0.9) x E-5	(-3 ± 1) x E-5
15	(1.29 ± 0.01) x E-3	(-3.4 ± 1.0) x E-5

