



S15-244

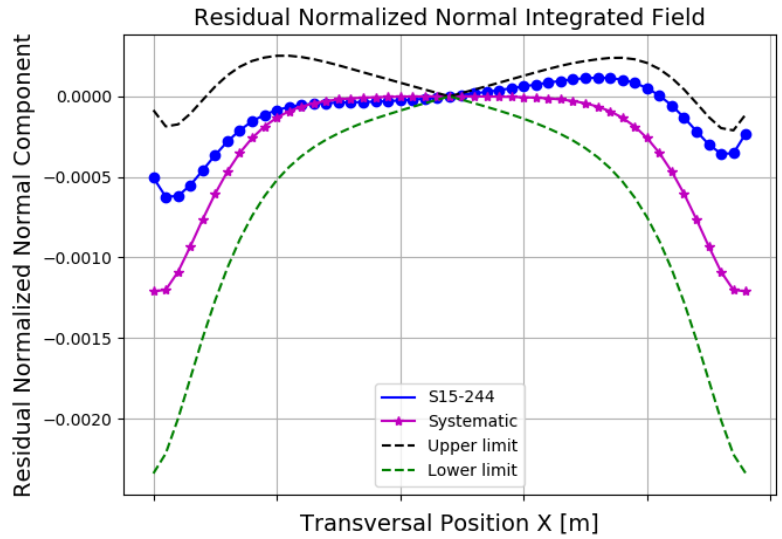
STORAGE RING MAGNET REPORT

Results

Date	16/07/2018
Hour	16:35:20
Temperature [°C]	23.426
Number of Measurements	9
Main Coil Current [A]	(167.7984 ± 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]	(-359.908 ± 0.004)
Magnet Center Offset X [μm] - (< ±40.0)	(15.93 ± 0.06)
Magnet Center Offset Y [μm] - (< ±40.0)	(27.68 ± 0.08)
Roll [mrad] - (< ±0.3)	(-5.9 ± 0.6) × E-2

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)	(-2.51 ± 0.06) × E-4	(-7 ± 2) × E-5
2 (quadrupole)	(-2.66 ± 0.01) × E-3	(-4.61 ± 0.01) × E-3
3 (sextupole)	(1.00000 ± 0.00002)	(-1.8 ± 0.2) × E-4
4	(2.0 ± 0.1) × E-4	(1.8 ± 0.2) × E-4
5	(2.3 ± 0.2) × E-4	(-1.5 ± 0.2) × E-4
6	(-1.2 ± 0.2) × E-4	(-5.1 ± 11.4) × E-6
7	(9 ± 1) × E-5	(7 ± 3) × E-5
8	(3 ± 3) × E-5	(4 ± 2) × E-5
9	(-2.10 ± 0.03) × E-3	(4.7 ± 0.2) × E-4
10	(8 ± 2) × E-5	(-6.0 ± 20.7) × E-6
11	(3 ± 3) × E-5	(1.2 ± 16.9) × E-6
12	(2.7 ± 26.0) × E-6	(-2.3 ± 19.9) × E-6
13	(-1 ± 2) × E-5	(-2 ± 3) × E-5
14	(-5 ± 3) × E-5	(-5 ± 2) × E-5
15	(1.39 ± 0.04) × E-3	(-3 ± 2) × E-5

