



S15-148

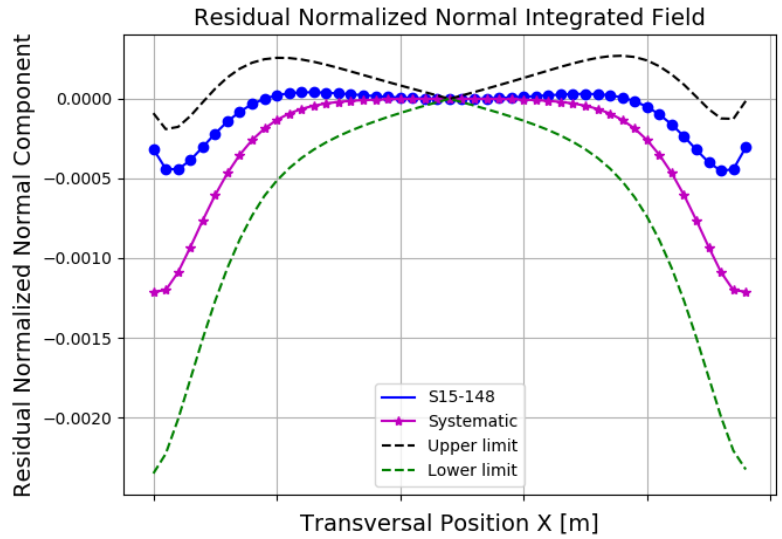
STORAGE RING MAGNET REPORT

Results

Date	16/08/2018
Hour	13:09:39
Temperature [°C]	23.464
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]	(-359.842 ± 0.003)
Magnet Center Offset X [μm] - (< ±40.0)	(10.10 ± 0.09)
Magnet Center Offset Y [μm] - (< ±40.0)	(16.18 ± 0.09)
Roll [mrad] - (< ±0.3)	(1.98 ± 0.08) 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)	(-9.41 ± 0.05) x E-4	(1.8 ± 0.1) x E-4
2 (quadrupole)	(-1.68 ± 0.01) x E-3	(-2.70 ± 0.01) x E-3
3 (sextupole)	(1.00000 ± 0.00001)	(5.9 ± 0.2) x E-4
4	(-8.2 ± 17.9) x E-6	(-1.1 ± 0.2) x E-4
5	(2.4 ± 0.2) x E-4	(-6 ± 2) x E-5
6	(-1 ± 2) x E-5	(1 ± 10) x E-6
7	(9 ± 2) x E-5	(-2 ± 1) x E-5
8	(-4.1 ± 17.3) x E-6	(4 ± 2) x E-5
9	(-2.04 ± 0.02) x E-3	(1.7 ± 0.2) x E-4
10	(1 ± 2) x E-5	(9.1 ± 16.7) x E-6
11	(9.6 ± 19.6) x E-6	(-2 ± 2) x E-5
12	(1 ± 1) x E-5	(-6.0 ± 15.4) x E-6
13	(3.4 ± 13.5) x E-6	(2 ± 2) x E-5
14	(3.4 ± 12.1) x E-6	(-4 ± 2) x E-5
15	(1.378 ± 0.008) x E-3	(6 ± 2) x E-5

