



S15-108

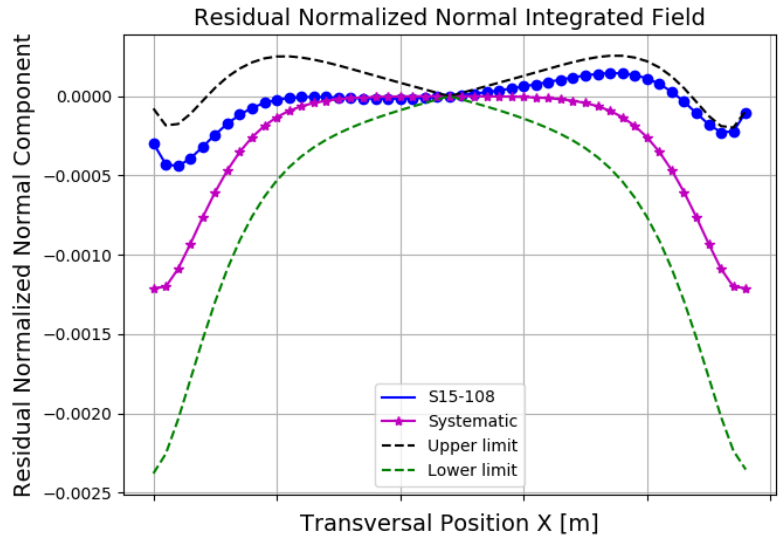
STORAGE RING MAGNET REPORT

Results

Date	09/08/2018
Hour	09:50:36
Temperature [°C]	23.529
Number of Measurements	9
Main Coil Current [A]	(167.798 ± 0.007)
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]	(-360.044 ± 0.003)
Magnet Center Offset X [μm] - (< ±40.0)	(12.81 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(22.54 ± 0.03)
Roll [mrad] - (< ±0.3)	(1.38 ± 0.01) 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)	(-8.69 ± 0.07) x E-4	(5.08 ± 0.06) x E-4
2 (quadrupole)	(-2.134 ± 0.004) x E-3	(-3.757 ± 0.005) x E-3
3 (sextupole)	(1.00000 ± 0.00001)	(4.14 ± 0.03) x E-4
4	(1.56 ± 0.04) x E-4	(2.00 ± 0.06) x E-4
5	(3.62 ± 0.04) x E-4	(-1.53 ± 0.06) x E-4
6	(-4.2 ± 0.6) x E-5	(-4.7 ± 63.0) x E-7
7	(1.20 ± 0.04) x E-4	(-4 ± 6) x E-6
8	(10 ± 5) x E-6	(2.0 ± 0.7) x E-5
9	(-1.994 ± 0.006) x E-3	(4.5 ± 0.6) x E-5
10	(2 ± 7) x E-6	(8.5 ± 52.3) x E-7
11	(-7 ± 9) x E-6	(8 ± 6) x E-6
12	(-9 ± 5) x E-6	(8.0 ± 88.5) x E-7
13	(-1.7 ± 0.7) x E-5	(1.2 ± 0.6) x E-5
14	(-1.9 ± 0.5) x E-5	(-3.3 ± 0.7) x E-5
15	(1.337 ± 0.004) x E-3	(4 ± 8) x E-6

