



S15-116

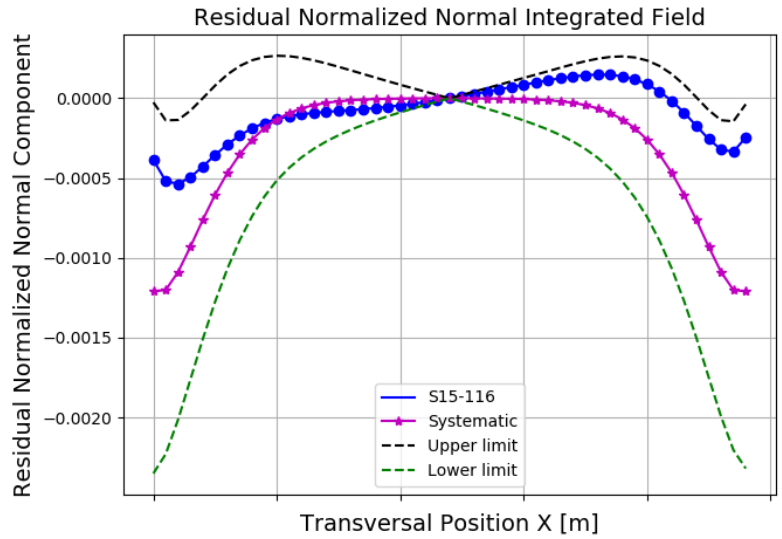
STORAGE RING MAGNET REPORT

Results

Date	29/08/2018
Hour	09:44:30
Temperature [°C]	23.492
Number of Measurements	9
Main Coil Current [A]	(167.7976 ± 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]	(-360.021 ± 0.003)
Magnet Center Offset X [μm] - (< ±40.0)	(2.53 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(29.13 ± 0.09)
Roll [mrad] - (< ±0.3)	(-1.57 ± 0.06) 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⁾]
---	--	--

1 (dipole)	(-1.88 ± 0.05) x E-4	(-2.0 ± 0.2) x E-4
2 (quadrupole)	(-4.21 ± 0.05) x E-4	(-4.85 ± 0.02) x E-3
3 (sextupole)	(1.00000 ± 0.00001)	(-4.7 ± 0.2) x E-4
4	(3.07 ± 0.05) x E-4	(2.5 ± 0.2) x E-4
5	(1.87 ± 0.08) x E-4	(2.0 ± 0.2) x E-4
6	(-2.4 ± 0.1) x E-4	(-1.8 ± 0.9) x E-5
7	(9 ± 1) x E-5	(-2 ± 1) x E-5
8	(4.9 ± 0.4) x E-5	(1 ± 1) x E-5
9	(-1.84 ± 0.01) x E-3	(5.1 ± 0.1) x E-4
10	(-2.1 ± 1.0) x E-5	(-1 ± 2) x E-5
11	(4 ± 1) x E-5	(-7.3 ± 18.3) x E-6
12	(1 ± 2) x E-5	(7.0 ± 12.7) x E-6
13	(-3 ± 1) x E-5	(-2.0 ± 0.8) x E-5
14	(-3.5 ± 0.8) x E-5	(-1.4 ± 0.7) x E-5
15	(1.24 ± 0.01) x E-3	(-2.25 ± 0.08) x E-4

