



S15-158

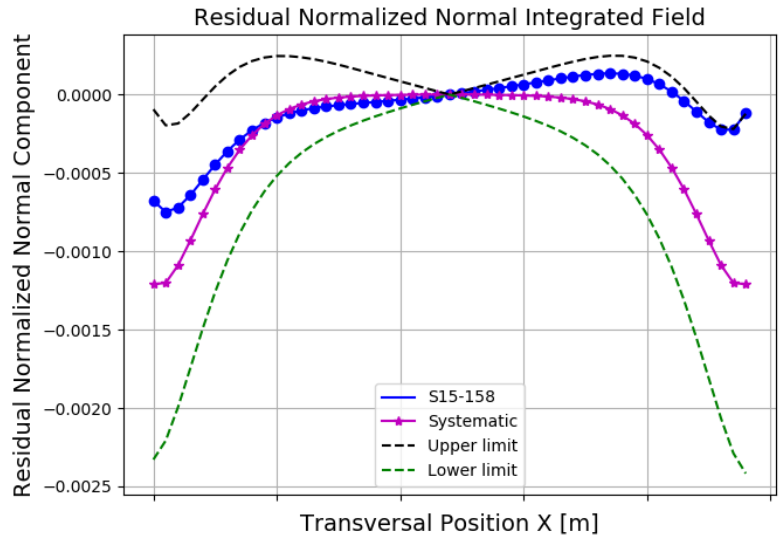
STORAGE RING MAGNET REPORT

Results

Date	30/08/2018
Hour	09:01:11
Temperature [°C]	23.414
Number of Measurements	9
Main Coil Current [A]	(167.798 ± 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]	(-359.733 ± 0.002)
Magnet Center Offset X [μm] - (< ±40.0)	(11.83 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(30.56 ± 0.03)
Roll [mrad] - (< ±0.3)	(-1.46 ± 0.02) 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)	(-1.256 ± 0.003) x E-3	(2.24 ± 0.05) x E-4
2 (quadrupole)	(-1.971 ± 0.003) x E-3	(-5.093 ± 0.005) x E-3
3 (sextupole)	(1.000000 ± 0.000007)	(-4.37 ± 0.06) x E-4
4	(2.21 ± 0.05) x E-4	(1.86 ± 0.06) x E-4
5	(1.46 ± 0.04) x E-4	(-7.6 ± 0.5) x E-5
6	(4.7 ± 0.5) x E-5	(-5 ± 7) x E-6
7	(1.31 ± 0.06) x E-4	(3.2 ± 0.7) x E-5
8	(2.0 ± 0.6) x E-5	(4.5 ± 0.9) x E-5
9	(-1.87 ± 0.01) x E-3	(3.43 ± 0.08) x E-4
10	(-7.5 ± 15.2) x E-6	(-2 ± 1) x E-5
11	(3 ± 2) x E-5	(1 ± 2) x E-5
12	(5.0 ± 12.2) x E-6	(-3.4 ± 0.6) x E-5
13	(-4.0 ± 0.4) x E-5	(5.3 ± 71.7) x E-7
14	(-6.7 ± 16.9) x E-6	(-2.1 ± 0.8) x E-5
15	(1.21 ± 0.02) x E-3	(-1.5 ± 0.2) x E-4

