



S15-160

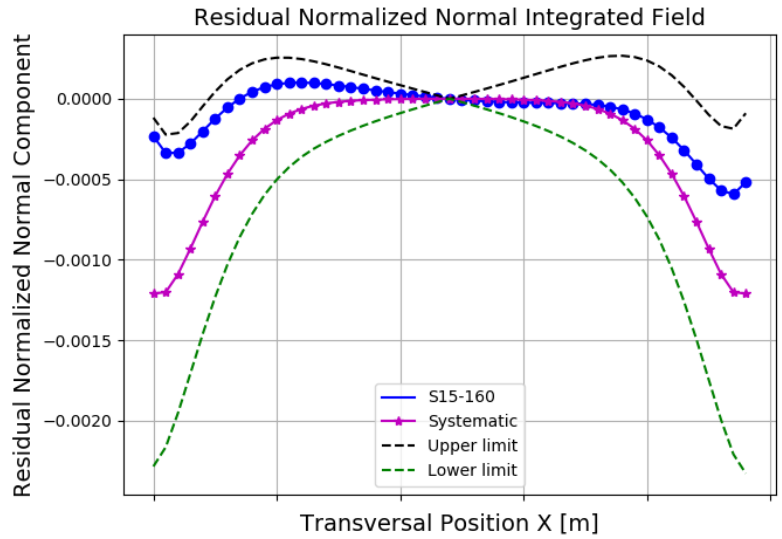
STORAGE RING MAGNET REPORT

Results

Date	30/08/2018
Hour	10:39:02
Temperature [°C]	23.353
Number of Measurements	9
Main Coil Current [A]	(167.7978 ± 0.0008)
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]	(-359.638 ± 0.002)
Magnet Center Offset X [μm] - (< ±40.0)	(7.90 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(28.96 ± 0.06)
Roll [mrad] - (< ±0.3)	(-2.27 ± 0.04) 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)	(2.49 ± 0.06) x E-4	(-2.6 ± 0.1) x E-4
2 (quadrupole)	(-1.317 ± 0.004) x E-3	(-4.83 ± 0.01) x E-3
3 (sextupole)	(1.000000 ± 0.000009)	(-6.8 ± 0.1) x E-4
4	(-1.55 ± 0.04) x E-4	(7.2 ± 0.9) x E-5
5	(2.24 ± 0.04) x E-4	(1.52 ± 0.10) x E-4
6	(6.9 ± 0.7) x E-5	(-9 ± 8) x E-6
7	(6.8 ± 0.5) x E-5	(-3.5 ± 0.6) x E-5
8	(-10 ± 4) x E-6	(3.7 ± 0.7) x E-5
9	(-1.873 ± 0.004) x E-3	(3.91 ± 0.08) x E-4
10	(-10 ± 6) x E-6	(-1.7 ± 0.7) x E-5
11	(-1.6 ± 11.2) x E-6	(10 ± 8) x E-6
12	(-2.2 ± 0.7) x E-5	(-1.5 ± 13.3) x E-6
13	(-9 ± 5) x E-6	(5 ± 8) x E-6
14	(-1.5 ± 0.6) x E-5	(-3.2 ± 0.8) x E-5
15	(1.216 ± 0.007) x E-3	(-1.64 ± 0.09) x E-4

