



S15-159

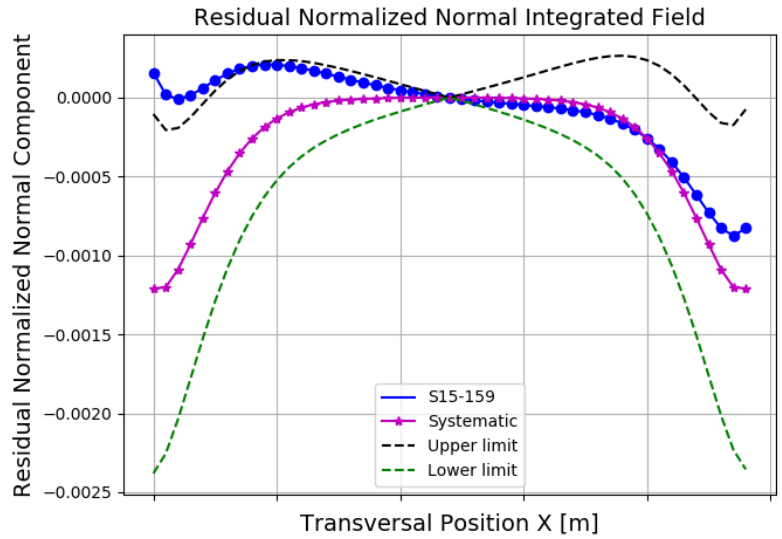
## STORAGE RING MAGNET REPORT

### Results

Date	30/08/2018
Hour	09:52:29
Temperature [°C]	23.391
Number of Measurements	9
Main Coil Current [A]	(167.7978 ± 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]	(-359.873 ± 0.003)
Magnet Center Offset X [μm] - (< ±40.0)	(18.03 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(27.88 ± 0.08)
Roll [mrad] - (< ±0.3)	(1.18 ± 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 <sup>(2-n)</sup> ]	Normalized Skew Multipoles x=12.0 mm [T.m <sup>(2-n)</sup> ]
1 (dipole)	(-4.12 ± 0.02) x E-4	(-4.7 ± 0.1) x E-4
2 (quadrupole)	(-3.005 ± 0.003) x E-3	(-4.65 ± 0.01) x E-3
3 (sextupole)	(1.00000 ± 0.00001)	(3.5 ± 0.1) x E-4
4	(-2.33 ± 0.05) x E-4	(1.1 ± 0.1) x E-4
5	(2.46 ± 0.06) x E-4	(1.44 ± 0.10) x E-4
6	(-2.59 ± 0.03) x E-4	(3 ± 1) x E-5
7	(8.6 ± 0.5) x E-5	(-2.6 ± 1.0) x E-5
8	(1.8 ± 0.2) x E-5	(3 ± 1) x E-5
9	(-1.849 ± 0.005) x E-3	(3.2 ± 0.1) x E-4
10	(-9.5 ± 76.7) x E-7	(3 ± 1) x E-5
11	(-2.9 ± 0.8) x E-5	(-10 ± 8) x E-6
12	(1.4 ± 0.7) x E-5	(-9 ± 7) x E-6
13	(-1.7 ± 0.7) x E-5	(7 ± 7) x E-6
14	(-3.2 ± 0.6) x E-5	(-2.3 ± 1.0) x E-5
15	(1.228 ± 0.006) x E-3	(-1.13 ± 0.09) x E-4

