



S15-196

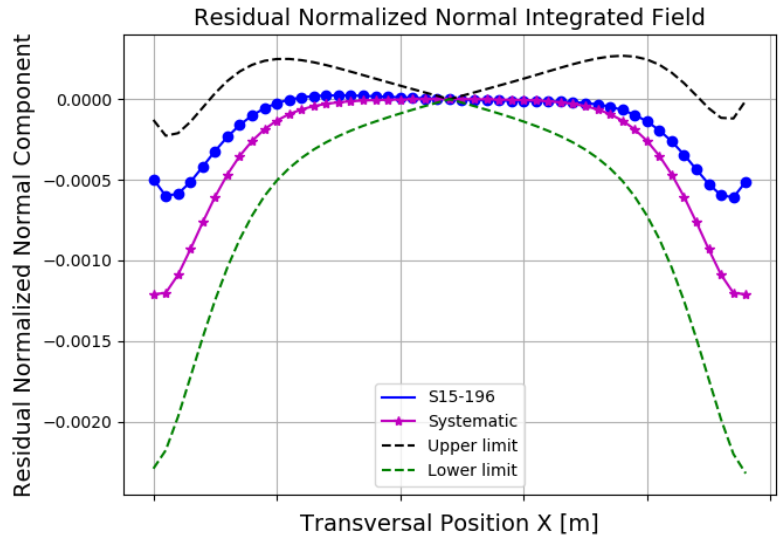
STORAGE RING MAGNET REPORT

Results

Date	26/07/2018
Hour	15:43:05
Temperature [°C]	23.42
Number of Measurements	9
Main Coil Current [A]	(167.7977 ± 0.0007)
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]	(-359.477 ± 0.003)
Magnet Center Offset X [μm] - ($< \pm 40.0$)	(18.34 ± 0.06)
Magnet Center Offset Y [μm] - ($< \pm 40.0$)	(29.6 ± 0.2)
Roll [mrad] - ($< \pm 0.3$)	$(1.26 \pm 0.09) \times E-1$

Electric Parameters

Inductance [mH]	3.157
Voltage [V]	6.0106
Resistance [$\text{m}\Omega$]	35.82
Main Coil Number of Turns	11.25



n	Normalized Normal Multipoles $x=12.0 \text{ mm}$ [$\text{T}\cdot\text{m}^{(2-n)}$]	Normalized Skew Multipoles $x=12.0 \text{ mm}$ [$\text{T}\cdot\text{m}^{(2-n)}$]
1 (dipole)	$(-1.296 \pm 0.007) \times E-3$	$(2.6 \pm 0.4) \times E-4$
2 (quadrupole)	$(-3.06 \pm 0.01) \times E-3$	$(-4.93 \pm 0.04) \times E-3$
3 (sextupole)	(1.00000 ± 0.00001)	$(3.8 \pm 0.3) \times E-4$
4	$(-6 \pm 1) \times E-5$	$(-4 \pm 3) \times E-5$
5	$(6 \pm 1) \times E-5$	$(6 \pm 4) \times E-5$
6	$(7 \pm 2) \times E-5$	$(-5 \pm 4) \times E-5$
7	$(8 \pm 2) \times E-5$	$(-2 \pm 3) \times E-5$
8	$(3 \pm 2) \times E-5$	$(5 \pm 4) \times E-5$
9	$(-1.95 \pm 0.03) \times E-3$	$(4.4 \pm 0.5) \times E-4$
10	$(-4.6 \pm 20.8) \times E-6$	$(4 \pm 4) \times E-5$
11	$(4.0 \pm 16.8) \times E-6$	$(-2 \pm 2) \times E-5$
12	$(-1 \pm 2) \times E-5$	$(1 \pm 2) \times E-5$
13	$(1 \pm 2) \times E-5$	$(1 \pm 3) \times E-5$
14	$(-2 \pm 2) \times E-5$	$(-3 \pm 2) \times E-5$
15	$(1.30 \pm 0.02) \times E-3$	$(7.6 \pm 21.8) \times E-6$

