



Q30-017

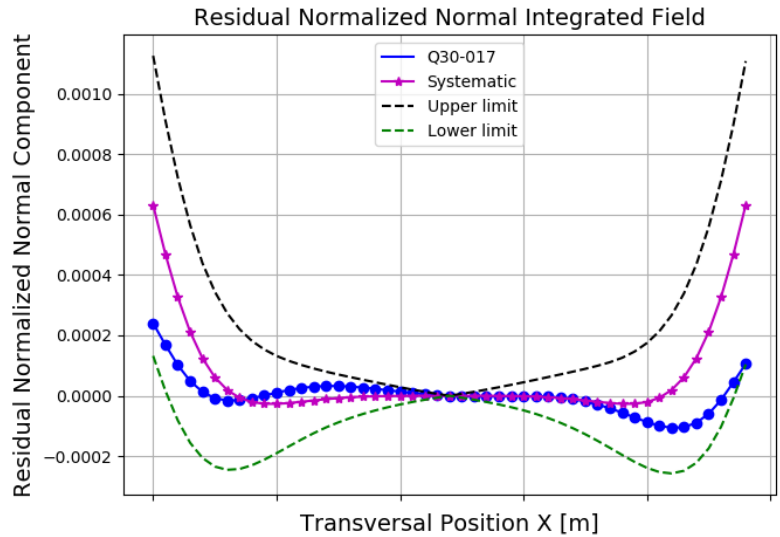
STORAGE RING MAGNET REPORT

Results

Date	07/05/2018
Hour	09:10:50
Temperature [°C]	23.46
Number of Measurements	9
Main Coil Current [A]	(154.9989 ± 0.0004)
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]	(-13.62630 ± 0.00004)
Magnet Center Offset X [μm] - ($< \pm 40.0$)	(-9.56 ± 0.03)
Magnet Center Offset Y [μm] - ($< \pm 40.0$)	(6.06 ± 0.07)
Roll [mrad] - ($< \pm 0.3$)	$(-2.84 \pm 0.04) \times E-1$

Electric Parameters

Inductance [mH]	9.24
Voltage [V]	7.4863
Resistance [$\text{m}\Omega$]	48.3
Main Coil Number of Turns	23.25



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)	$(7.97 \pm 0.03) \times E-4$	$(-5.05 \pm 0.06) \times E-4$
2 (quadrupole)	(1.000000 ± 0.000004)	$(-5.69 \pm 0.08) \times E-4$
3 (sextupole)	$(-4.6 \pm 0.2) \times E-5$	$(2.14 \pm 0.07) \times E-4$
4	$(2.44 \pm 0.04) \times E-4$	$(-7.4 \pm 0.6) \times E-5$
5	$(-4.1 \pm 0.4) \times E-5$	$(-2.8 \pm 0.8) \times E-5$
6	$(-1.103 \pm 0.007) \times E-3$	$(1.20 \pm 0.04) \times E-4$
7	$(1.8 \pm 0.6) \times E-5$	$(-1.8 \pm 0.6) \times E-5$
8	$(-1.8 \pm 0.8) \times E-5$	$(8 \pm 8) \times E-6$
9	$(3.1 \pm 0.8) \times E-5$	$(5.43 \pm 886.47) \times E-8$
10	$(1.763 \pm 0.007) \times E-3$	$(-7.4 \pm 0.7) \times E-5$
11	$(-1.1 \pm 0.6) \times E-5$	$(1.0 \pm 0.8) \times E-5$
12	$(7 \pm 8) \times E-6$	$(4 \pm 6) \times E-6$
13	$(-2.2 \pm 0.8) \times E-5$	$(-6.4 \pm 77.7) \times E-7$
14	$(-7.20 \pm 0.04) \times E-4$	$(2.8 \pm 0.5) \times E-5$
15	$(5 \pm 6) \times E-6$	$(-1.3 \pm 0.8) \times E-5$

