



Q30-014

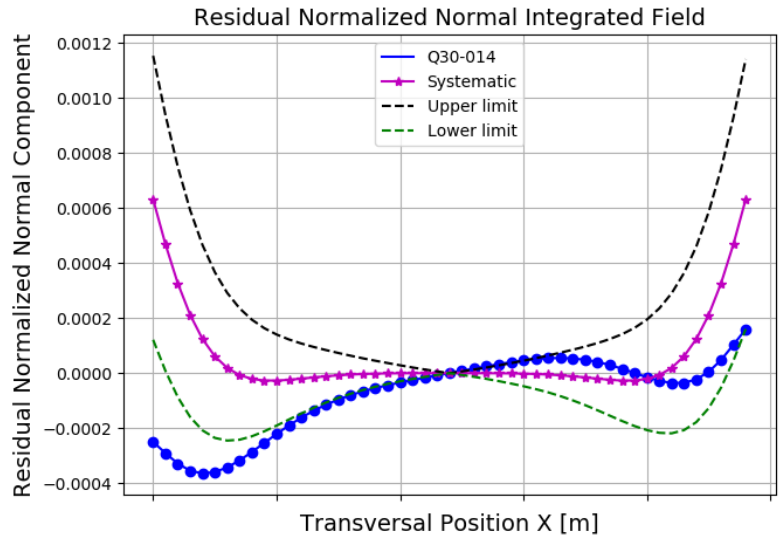
STORAGE RING MAGNET REPORT

Results

Date	07/05/2018
Hour	12:30:13
Temperature [°C]	23.43
Number of Measurements	9
Main Coil Current [A]	(154.9981 ± 0.0006)
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]	(-13.63486 ± 0.00003)
Magnet Center Offset X [μm] - ($< \pm 40.0$)	(-1.27 ± 0.02)
Magnet Center Offset Y [μm] - ($< \pm 40.0$)	(-1.98 ± 0.06)
Roll [mrad] - ($< \pm 0.3$)	$(-2.88 \pm 0.03) \times E-1$

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 $x=12.0 \text{ mm}$ [T.m ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles $x=12.0 \text{ mm}$ [T.m ⁽²⁻ⁿ⁾]
1 (dipole)	$(1.05 \pm 0.02) \times E-4$	$(1.65 \pm 0.05) \times E-4$
2 (quadrupole)	(1.000000 ± 0.000003)	$(-5.75 \pm 0.05) \times E-4$
3 (sextupole)	$(2.01 \pm 0.06) \times E-4$	$(2.04 \pm 0.06) \times E-4$
4	$(6 \pm 5) \times E-6$	$(-4.5 \pm 0.5) \times E-5$
5	$(8 \pm 6) \times E-6$	$(-3.4 \pm 0.5) \times E-5$
6	$(-1.101 \pm 0.005) \times E-3$	$(8.7 \pm 0.9) \times E-5$
7	$(-2.7 \pm 44.0) \times E-7$	$(-1.3 \pm 0.7) \times E-5$
8	$(3 \pm 6) \times E-6$	$(-5.3 \pm 60.8) \times E-7$
9	$(9.6 \pm 79.6) \times E-7$	$(1.7 \pm 0.5) \times E-5$
10	$(1.785 \pm 0.009) \times E-3$	$(-4.0 \pm 0.7) \times E-5$
11	$(-9.2 \pm 97.2) \times E-7$	$(3 \pm 7) \times E-6$
12	$(-2 \pm 6) \times E-6$	$(6.7 \pm 83.6) \times E-7$
13	$(-6 \pm 6) \times E-6$	$(-6 \pm 7) \times E-6$
14	$(-7.37 \pm 0.05) \times E-4$	$(1.2 \pm 0.5) \times E-5$
15	$(3.3 \pm 10.9) \times E-6$	$(6.3 \pm 50.3) \times E-7$

