



Q30-012

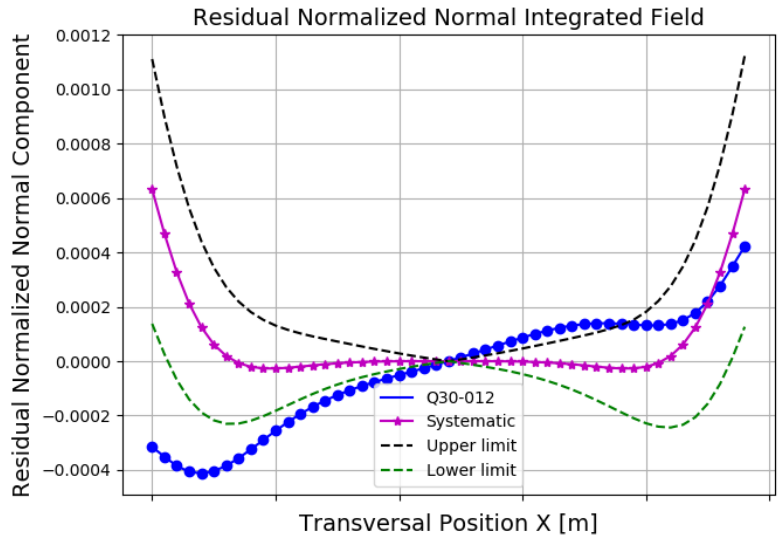
STORAGE RING MAGNET REPORT

Results

Date	04/05/2018
Hour	09:56:22
Temperature [°C]	23.49
Number of Measurements	9
Main Coil Current [A]	(154.9965 ± 0.0005)
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]	(-13.62296 ± 0.00002)
Magnet Center Offset X [μm] - ($< \pm 40.0$)	(-9.65 ± 0.02)
Magnet Center Offset Y [μm] - ($< \pm 40.0$)	(-5.26 ± 0.06)
Roll [mrad] - ($< \pm 0.3$)	$(-2.99 \pm 0.02) \times E-1$

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)	$(8.04 \pm 0.01) \times E-4$	$(4.38 \pm 0.05) \times E-4$
2 (quadrupole)	(1.000000 ± 0.000002)	$(-5.98 \pm 0.05) \times E-4$
3 (sextupole)	$(3.25 \pm 0.05) \times E-4$	$(-5.8 \pm 0.6) \times E-5$
4	$(1.49 \pm 0.03) \times E-4$	$(-2.1 \pm 0.7) \times E-5$
5	$(3.0 \pm 0.7) \times E-5$	$(-8 \pm 5) \times E-6$
6	$(-1.141 \pm 0.005) \times E-3$	$(1.33 \pm 0.08) \times E-4$
7	$(1.1 \pm 0.7) \times E-5$	$(3 \pm 9) \times E-6$
8	$(-1.5 \pm 0.7) \times E-5$	$(-10 \pm 6) \times E-6$
9	$(2.2 \pm 0.8) \times E-5$	$(8.2 \pm 78.7) \times E-7$
10	$(1.780 \pm 0.008) \times E-3$	$(-7.3 \pm 0.5) \times E-5$
11	$(-1.9 \pm 0.6) \times E-5$	$(5 \pm 7) \times E-6$
12	$(1.3 \pm 1.0) \times E-5$	$(-6.890 \pm 6865.563) \times E-9$
13	$(-1.0 \pm 0.6) \times E-5$	$(9 \pm 7) \times E-6$
14	$(-7.33 \pm 0.09) \times E-4$	$(3 \pm 1) \times E-5$
15	$(9 \pm 7) \times E-6$	$(-1.4 \pm 0.9) \times E-5$

