



BQF-006

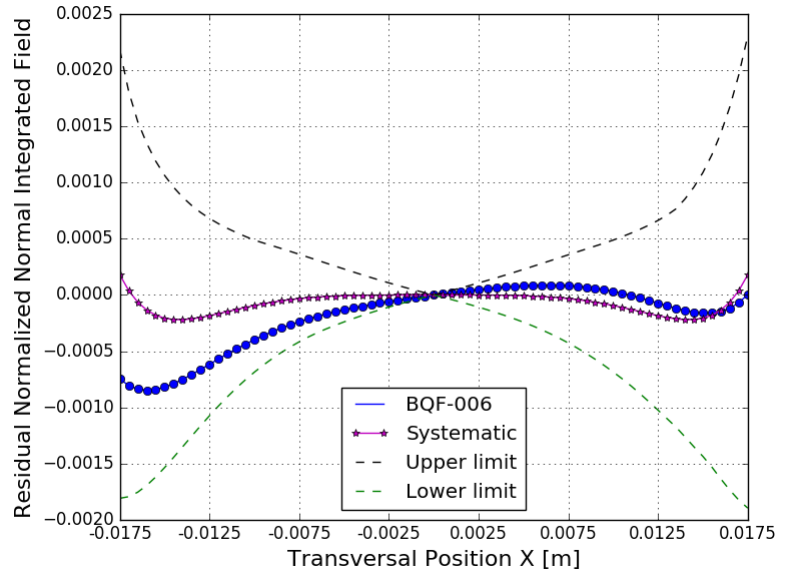
BOOSTER MAGNET REPORT

Results

Date	04/04/2016
Hour	13:48:55
Temperature [°C]	21.2
Number of Measurements	17
Main Coil Current [A]	(130.0028 ± 0.0005)
Trim Coil Current [A]	--
Integrated Gradient [T]	(-4.825125 ± 0.000009)
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(35.1 ± 0.1)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-32.1 ± 0.1)
Roll [mrad] - ($< \pm 0.8$)	$(-4.35 \pm 0.04) \times E-1$

Electric Parameters

Inductance [mH]	8.227
Voltage [V]	0.466
Resistance [$\text{m}\Omega$]	46.65
Main Coil Number of Turns	26.25



n	Normalized Normal Multipoles $x=17.5 \text{ mm}$ [$\text{T}\cdot\text{m}^{(2-n)}$]	Normalized Skew Multipoles $x=17.5 \text{ mm}$ [$\text{T}\cdot\text{m}^{(2-n)}$]
1 (dipole)	$(2.006 \pm 0.006) \times E-3$	$(-1.833 \pm 0.006) \times E-3$
2 (quadrupole)	(1.000000 ± 0.000002)	$(-8.70 \pm 0.02) \times E-4$
3 (sextupole)	$(3.71 \pm 0.05) \times E-4$	$(-3.95 \pm 0.05) \times E-4$
4	$(-2.02 \pm 0.02) \times E-4$	$(9.0 \pm 0.6) \times E-5$
5	$(1.6 \pm 0.2) \times E-5$	$(-2.2 \pm 0.4) \times E-5$
6	$(-1.206 \pm 0.005) \times E-3$	$(-2 \pm 5) \times E-6$
7	$(9 \pm 2) \times E-6$	$(-2.6 \pm 0.5) \times E-5$
8	$(-7 \pm 3) \times E-6$	$(-6.1 \pm 0.5) \times E-5$
9	$(5 \pm 4) \times E-6$	$(7 \pm 3) \times E-6$
10	$(1.111 \pm 0.003) \times E-3$	$(1.2 \pm 0.5) \times E-5$
11	$(-1.5 \pm 0.5) \times E-5$	$(-2.3 \pm 0.5) \times E-5$
12	$(-3 \pm 3) \times E-6$	$(-1.8 \pm 0.5) \times E-5$
13	$(1.4 \pm 0.5) \times E-5$	$(5.5 \pm 38.8) \times E-7$
14	$(-6.4 \pm 0.3) \times E-5$	$(6 \pm 5) \times E-6$
15	$(-2.4 \pm 0.4) \times E-5$	$(-7.2 \pm 58.8) \times E-7$

