



BQF-036

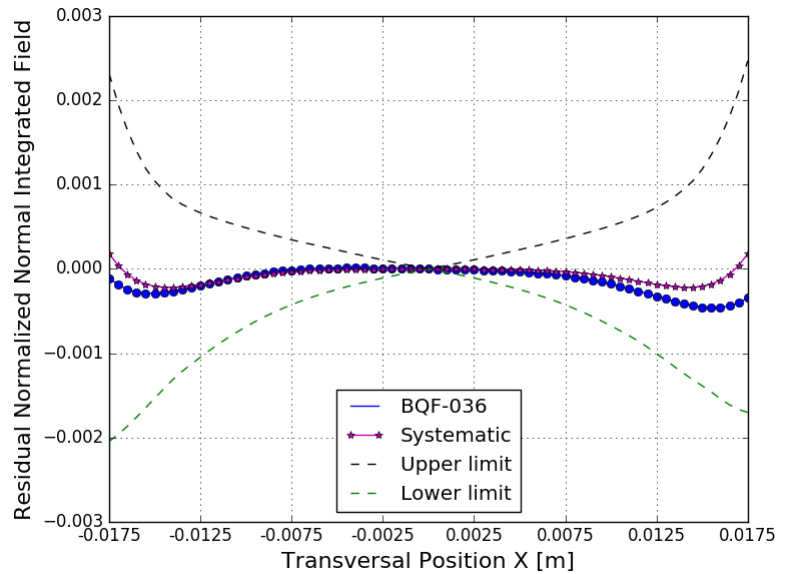
BOOSTER MAGNET REPORT

Results

Date	06/04/2016
Hour	08:39:43
Temperature [°C]	21.4
Number of Measurements	17
Main Coil Current [A]	(130.0248 ± 0.0003)
Trim Coil Current [A]	--
Integrated Gradient [T]	(-4.82973 ± 0.00002)
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(6.3 ± 0.2)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-24.17 ± 0.06)
Roll [mrad] - ($< \pm 0.8$)	$(-4.0 \pm 0.1) \times E-1$

Electric Parameters

Inductance [mH]	8.226
Voltage [V]	0.484
Resistance [$\text{m}\Omega$]	48.40
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)	$(3.6 \pm 0.1) \times E-4$	$(-1.381 \pm 0.004) \times E-3$
2 (quadrupole)	(1.000000 ± 0.000005)	$(-7.97 \pm 0.09) \times E-4$
3 (sextupole)	$(-7 \pm 1) \times E-5$	$(-7.43 \pm 0.07) \times E-4$
4	$(-5 \pm 1) \times E-5$	$(8 \pm 2) \times E-5$
5	$(-5 \pm 1) \times E-5$	$(4.5 \pm 0.7) \times E-5$
6	$(-1.21 \pm 0.01) \times E-3$	$(-2 \pm 1) \times E-5$
7	$(6.4 \pm 0.9) \times E-5$	$(1 \pm 1) \times E-5$
8	$(2 \pm 2) \times E-5$	$(-2.7 \pm 1.0) \times E-5$
9	$(-4 \pm 1) \times E-5$	$(2 \pm 1) \times E-5$
10	$(1.08 \pm 0.01) \times E-3$	$(-3.4 \pm 0.9) \times E-5$
11	$(9.1 \pm 11.8) \times E-6$	$(-4 \pm 1) \times E-5$
12	$(9.2 \pm 11.6) \times E-6$	$(3.5 \pm 0.9) \times E-5$
13	$(-2 \pm 1) \times E-5$	$(3 \pm 1) \times E-5$
14	$(-8.9 \pm 0.6) \times E-5$	$(-3.7 \pm 0.8) \times E-5$
15	$(-1.0 \pm 0.9) \times E-5$	$(-2.5 \pm 0.9) \times E-5$

