



BQF-056

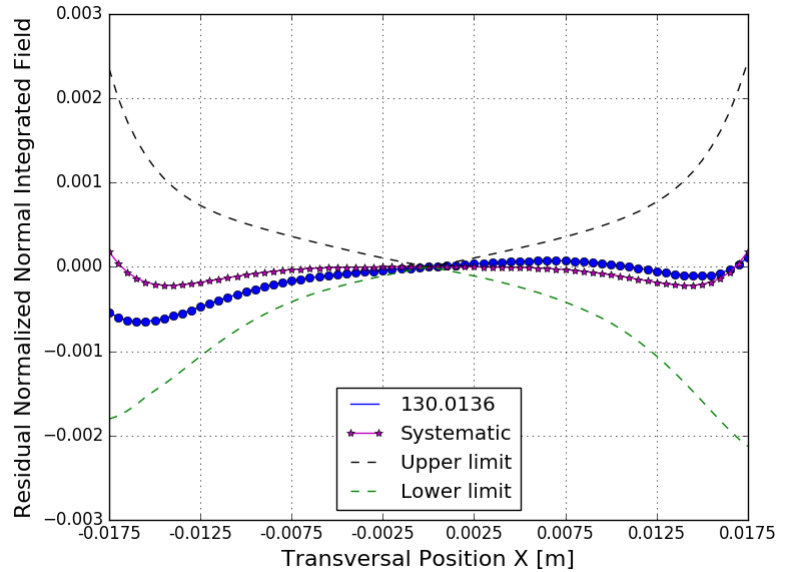
BOOSTER MAGNET REPORT

Results

Date	15/04/2016
Hour	08:53:02
Temperature [°C]	21.5
Number of Measurements	17
Main Coil Current [A]	(130.0136 ± 0.0004)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	(-4.82440 ± 0.00005)
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(30.2 ± 0.3)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-19.8 ± 0.2)
Roll [mrad] - ($< \pm 0.8$)	$(-3.7 \pm 0.2) \times 10^{-1}$

Electric Parameters

Inductance [mH]	8.323
Voltage [V]	0.486
Resistance [$\text{m}\Omega$]	3.738
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)	$(1.73 \pm 0.02) \times 10^{-3}$	$(-1.13 \pm 0.01) \times 10^{-3}$
2 (quadrupole)	(1.000000 ± 0.000010)	$(-7.4 \pm 0.1) \times 10^{-4}$
3 (sextupole)	$(2.7 \pm 0.2) \times 10^{-4}$	$(-3.3 \pm 0.2) \times 10^{-4}$
4	$(-5 \pm 2) \times 10^{-5}$	$(1.2 \pm 0.1) \times 10^{-4}$
5	$(5 \pm 2) \times 10^{-5}$	$(-4 \pm 2) \times 10^{-5}$
6	$(-1.20 \pm 0.02) \times 10^{-3}$	$(-2 \pm 2) \times 10^{-5}$
7	$(6.9 \pm 17.6) \times 10^{-6}$	$(9.5 \pm 17.0) \times 10^{-6}$
8	$(-7.2 \pm 15.4) \times 10^{-6}$	$(2.4 \pm 86.1) \times 10^{-7}$
9	$(-2.7 \pm 16.6) \times 10^{-6}$	$(5.9 \pm 11.0) \times 10^{-6}$
10	$(1.12 \pm 0.01) \times 10^{-3}$	$(-2.3 \pm 0.9) \times 10^{-5}$
11	$(2.9 \pm 11.0) \times 10^{-6}$	$(-8 \pm 10) \times 10^{-6}$
12	$(3 \pm 7) \times 10^{-6}$	$(3.3 \pm 0.9) \times 10^{-5}$
13	$(-1.6 \pm 0.7) \times 10^{-5}$	$(1.4 \pm 0.9) \times 10^{-5}$
14	$(-8.5 \pm 0.9) \times 10^{-5}$	$(-1.3 \pm 0.9) \times 10^{-5}$
15	$(1.4 \pm 0.7) \times 10^{-5}$	$(-2 \pm 5) \times 10^{-6}$

