



# BQF-014

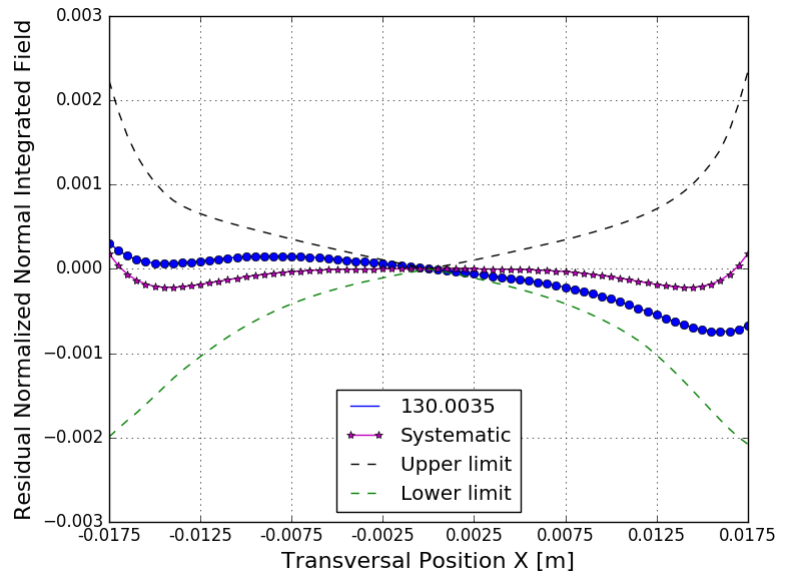
## BOOSTER MAGNET REPORT

### Results

Date	07/04/2016
Hour	10:45:49
Temperature [°C]	21.4
Number of Measurements	17
Main Coil Current [A]	$(130.0035 \pm 0.0005)$
Trim Coil Current [A]	$(0 \pm 0)$
Integrated Gradient [T]	$(-4.81621 \pm 0.00001)$
Magnet Center Offset X [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(3.70 \pm 0.03)$
Magnet Center Offset Y [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(-17.12 \pm 0.08)$
Roll [mrad] - ( $< \pm 0.8$ )	$(-4.18 \pm 0.03) \times E-1$

### Electric Parameters

Inductance [mH]	8.304
Voltage [V]	0.489
Resistance [ $\text{m}\Omega$ ]	3.761
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)	$(2.12 \pm 0.02) \times E-4$	$(-9.78 \pm 0.04) \times E-4$
2 (quadrupole)	$(1.000000 \pm 0.000003)$	$(-8.35 \pm 0.02) \times E-4$
3 (sextupole)	$(-4.14 \pm 0.03) \times E-4$	$(-7.80 \pm 0.04) \times E-4$
4	$(3.1 \pm 0.2) \times E-5$	$(7.6 \pm 0.4) \times E-5$
5	$(-9.1 \pm 0.3) \times E-5$	$(6.3 \pm 0.4) \times E-5$
6	$(-1.203 \pm 0.004) \times E-3$	$(4.53 \pm 405.85) \times E-8$
7	$(6.0 \pm 0.4) \times E-5$	$(3.9 \pm 42.5) \times E-7$
8	$(-1.8 \pm 0.4) \times E-5$	$(-2.1 \pm 0.5) \times E-5$
9	$(-2.6 \pm 0.3) \times E-5$	$(1.4 \pm 0.2) \times E-5$
10	$(1.104 \pm 0.003) \times E-3$	$(-1.3 \pm 0.5) \times E-5$
11	$(8 \pm 5) \times E-6$	$(-1.2 \pm 0.6) \times E-5$
12	$(1.7 \pm 0.5) \times E-5$	$(1.4 \pm 0.4) \times E-5$
13	$(-1.9 \pm 0.4) \times E-5$	$(3.1 \pm 0.1) \times E-5$
14	$(-1.14 \pm 0.04) \times E-4$	$(-1.2 \pm 0.3) \times E-5$
15	$(-7 \pm 4) \times E-6$	$(-1.1 \pm 0.3) \times E-5$

