



# BQF-039

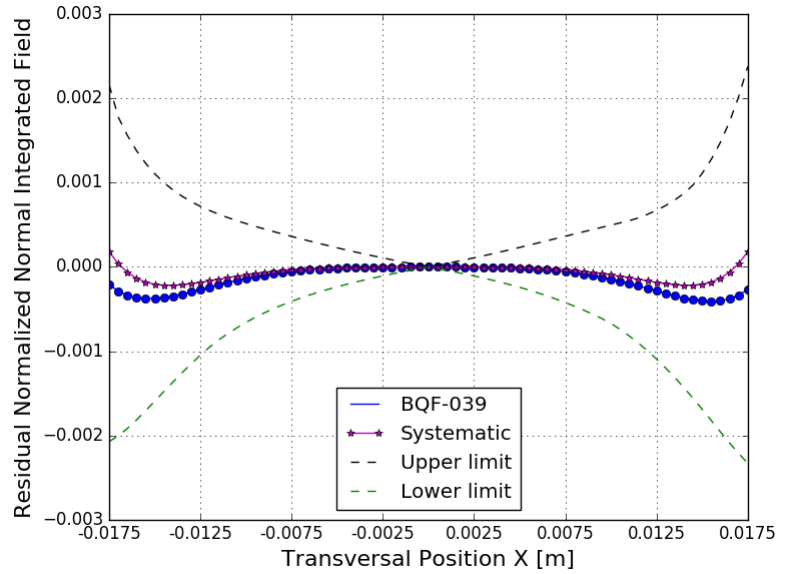
## BOOSTER MAGNET REPORT

### Results

Date	13/04/2016
Hour	11:13:24
Temperature [°C]	21.2
Number of Measurements	17
Main Coil Current [A]	$(130.0105 \pm 0.0004)$
Trim Coil Current [A]	$(0 \pm 0)$
Integrated Gradient [T]	$(-4.81933 \pm 0.00001)$
Magnet Center Offset X [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(7.4 \pm 0.1)$
Magnet Center Offset Y [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(-33.95 \pm 0.07)$
Roll [mrad] - ( $< \pm 0.8$ )	$(-5.12 \pm 0.05) \times E-1$

### Electric Parameters

Inductance [mH]	8.281
Voltage [V]	0.481
Resistance [ $\text{m}\Omega$ ]	48.10
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)	$(4.23 \pm 0.07) \times E-4$	$(-1.940 \pm 0.004) \times E-3$
2 (quadrupole)	$(1.000000 \pm 0.000003)$	$(-1.024 \pm 0.003) \times E-3$
3 (sextupole)	$(1 \pm 4) \times E-6$	$(-1.58 \pm 0.05) \times E-4$
4	$(-9.2 \pm 0.4) \times E-5$	$(1.32 \pm 0.06) \times E-4$
5	$(-3.9 \pm 0.5) \times E-5$	$(-2.5 \pm 0.9) \times E-5$
6	$(-1.153 \pm 0.007) \times E-3$	$(-5 \pm 6) \times E-6$
7	$(4.0 \pm 0.6) \times E-5$	$(-1.1 \pm 0.7) \times E-5$
8	$(-2.6 \pm 0.6) \times E-5$	$(-1.7 \pm 0.7) \times E-5$
9	$(-3.2 \pm 0.4) \times E-5$	$(6 \pm 8) \times E-6$
10	$(1.113 \pm 0.006) \times E-3$	$(-2.5 \pm 0.6) \times E-5$
11	$(1.9 \pm 0.4) \times E-5$	$(-3 \pm 8) \times E-6$
12	$(-9 \pm 3) \times E-6$	$(3.0 \pm 0.3) \times E-5$
13	$(-2.5 \pm 0.6) \times E-5$	$(9 \pm 5) \times E-6$
14	$(-7.3 \pm 0.5) \times E-5$	$(-2.3 \pm 0.7) \times E-5$
15	$(8 \pm 6) \times E-6$	$(8 \pm 5) \times E-6$

