



# BQF-051

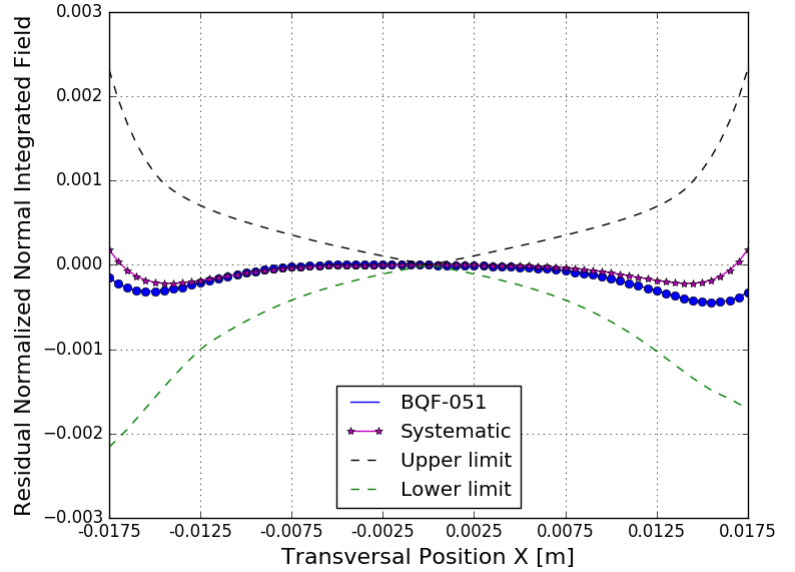
## BOOSTER MAGNET REPORT

### Results

Date	04/04/2016
Hour	09:43:06
Temperature [°C]	21.3
Number of Measurements	17
Main Coil Current [A]	$(130.0201 \pm 0.0004)$
Trim Coil Current [A]	--
Integrated Gradient [T]	$(-4.82511 \pm 0.00002)$
Magnet Center Offset X [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(14.05 \pm 0.06)$
Magnet Center Offset Y [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(-9.63 \pm 0.05)$
Roll [mrad] - ( $< \pm 0.8$ )	$(-4.21 \pm 0.04) \times E-1$

### Electric Parameters

Inductance [mH]	8.400
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)	$(8.03 \pm 0.03) \times E-4$	$(-5.50 \pm 0.03) \times E-4$
2 (quadrupole)	$(1.000000 \pm 0.000003)$	$(-8.43 \pm 0.03) \times E-4$
3 (sextupole)	$(-5.0 \pm 0.5) \times E-5$	$(-9.79 \pm 0.04) \times E-4$
4	$(-3.1 \pm 0.4) \times E-5$	$(5.1 \pm 0.6) \times E-5$
5	$(-4.4 \pm 0.6) \times E-5$	$(4.1 \pm 0.5) \times E-5$
6	$(-1.213 \pm 0.008) \times E-3$	$(-1.3 \pm 0.4) \times E-5$
7	$(3.2 \pm 0.8) \times E-5$	$(2 \pm 5) \times E-6$
8	$(-9 \pm 5) \times E-6$	$(-3.7 \pm 0.6) \times E-5$
9	$(-5 \pm 8) \times E-6$	$(1.5 \pm 0.7) \times E-5$
10	$(1.11 \pm 0.01) \times E-3$	$(-6 \pm 6) \times E-6$
11	$(-1.1 \pm 0.8) \times E-5$	$(-3.7 \pm 0.7) \times E-5$
12	$(-8.6 \pm 14.7) \times E-6$	$(-1 \pm 1) \times E-5$
13	$(4 \pm 6) \times E-6$	$(2.0 \pm 0.9) \times E-5$
14	$(-9 \pm 1) \times E-5$	$(6 \pm 6) \times E-6$
15	$(-10 \pm 5) \times E-6$	$(-3 \pm 1) \times E-5$

