



BQF-056

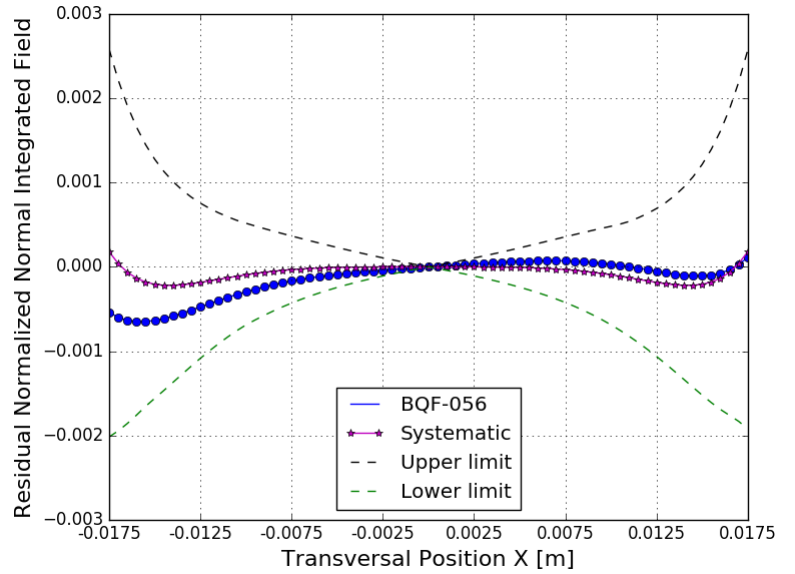
## BOOSTER MAGNET REPORT

### Results

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

### Electric Parameters

Inductance [mH]	8.323
Voltage [V]	0.486
Resistance [ $\text{m}\Omega$ ]	48.60
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)	$(1.73 \pm 0.02) \times E-3$	$(-1.13 \pm 0.01) \times E-3$
2 (quadrupole)	$(1.000000 \pm 0.000010)$	$(-7.4 \pm 0.1) \times E-4$
3 (sextupole)	$(2.7 \pm 0.2) \times E-4$	$(-3.3 \pm 0.2) \times E-4$
4	$(-5 \pm 2) \times E-5$	$(1.2 \pm 0.1) \times E-4$
5	$(5 \pm 2) \times E-5$	$(-4 \pm 2) \times E-5$
6	$(-1.20 \pm 0.02) \times E-3$	$(-2 \pm 2) \times E-5$
7	$(6.9 \pm 17.6) \times E-6$	$(9.5 \pm 17.0) \times E-6$
8	$(-7.2 \pm 15.4) \times E-6$	$(2.4 \pm 86.1) \times E-7$
9	$(-2.7 \pm 16.6) \times E-6$	$(5.9 \pm 11.0) \times E-6$
10	$(1.12 \pm 0.01) \times E-3$	$(-2.3 \pm 0.9) \times E-5$
11	$(2.9 \pm 11.0) \times E-6$	$(-8 \pm 10) \times E-6$
12	$(3 \pm 7) \times E-6$	$(3.3 \pm 0.9) \times E-5$
13	$(-1.6 \pm 0.7) \times E-5$	$(1.4 \pm 0.9) \times E-5$
14	$(-8.5 \pm 0.9) \times E-5$	$(-1.3 \pm 0.9) \times E-5$
15	$(1.4 \pm 0.7) \times E-5$	$(-2 \pm 5) \times E-6$

