



# BQF-053

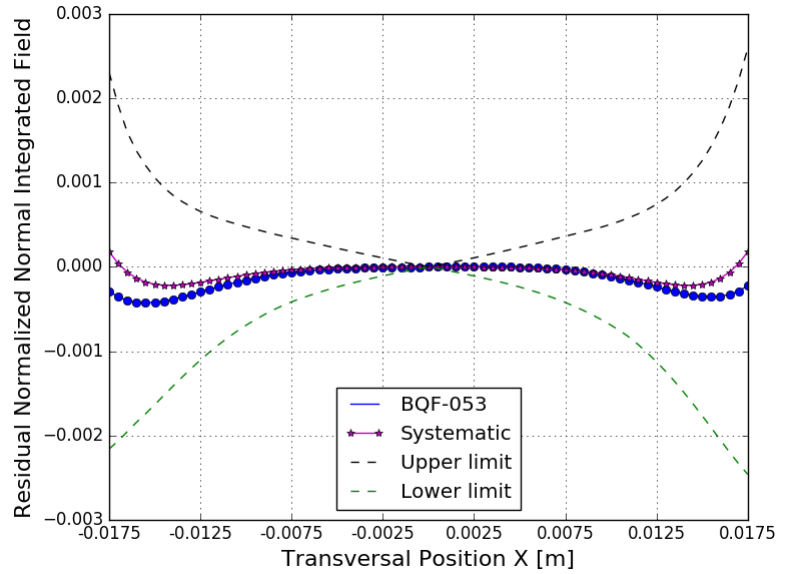
## BOOSTER MAGNET REPORT

### Results

Date	07/04/2016
Hour	08:57:15
Temperature [°C]	21.0
Number of Measurements	17
Main Coil Current [A]	$(130.0091 \pm 0.0003)$
Trim Coil Current [A]	--
Integrated Gradient [T]	$(-4.82185 \pm 0.00001)$
Magnet Center Offset X [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(5.78 \pm 0.09)$
Magnet Center Offset Y [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(-13.83 \pm 0.03)$
Roll [mrad] - ( $< \pm 0.8$ )	$(-6.22 \pm 0.05) \times E-1$

### Electric Parameters

Inductance [mH]	8.341
Voltage [V]	0.483
Resistance [ $\text{m}\Omega$ ]	48.30
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)	$(3.30 \pm 0.05) \times E-4$	$(-7.90 \pm 0.01) \times E-4$
2 (quadrupole)	$(1.000000 \pm 0.000003)$	$(-1.243 \pm 0.003) \times E-3$
3 (sextupole)	$(4.1 \pm 0.2) \times E-5$	$(-7.08 \pm 0.02) \times E-4$
4	$(-5.4 \pm 0.3) \times E-5$	$(1.39 \pm 0.04) \times E-4$
5	$(-2.0 \pm 0.2) \times E-5$	$(-2.4 \pm 0.4) \times E-5$
6	$(-1.188 \pm 0.004) \times E-3$	$(4.3 \pm 26.4) \times E-7$
7	$(5.8 \pm 0.2) \times E-5$	$(2.1 \pm 0.2) \times E-5$
8	$(-3.7 \pm 0.2) \times E-5$	$(-3.2 \pm 0.4) \times E-5$
9	$(-3.9 \pm 0.5) \times E-5$	$(-8 \pm 3) \times E-6$
10	$(1.122 \pm 0.004) \times E-3$	$(-2.3 \pm 0.5) \times E-5$
11	$(1.4 \pm 0.4) \times E-5$	$(2 \pm 4) \times E-6$
12	$(-1.3 \pm 0.4) \times E-5$	$(1.7 \pm 0.5) \times E-5$
13	$(-3.2 \pm 0.6) \times E-5$	$(-2 \pm 5) \times E-6$
14	$(-8.8 \pm 0.7) \times E-5$	$(-2.3 \pm 0.6) \times E-5$
15	$(10 \pm 5) \times E-6$	$(-2 \pm 4) \times E-6$

