



# BQF-019

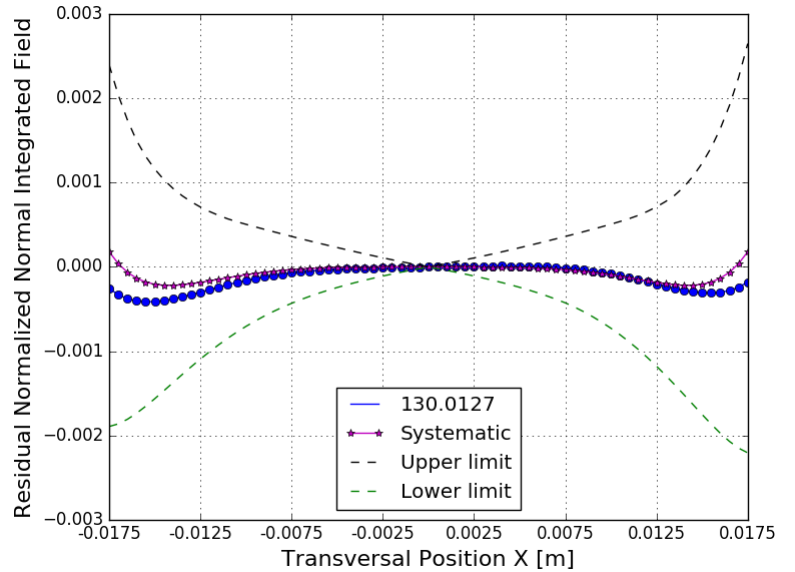
## BOOSTER MAGNET REPORT

### Results

Date	08/04/2016
Hour	15:09:38
Temperature [°C]	21.2
Number of Measurements	17
Main Coil Current [A]	$(130.0127 \pm 0.0005)$
Trim Coil Current [A]	$(0 \pm 0)$
Integrated Gradient [T]	$(-4.82315 \pm 0.00001)$
Magnet Center Offset X [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(10.32 \pm 0.04)$
Magnet Center Offset Y [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(-30.96 \pm 0.06)$
Roll [mrad] - ( $< \pm 0.8$ )	$(-5.10 \pm 0.03) \times E-1$

### Electric Parameters

Inductance [mH]	8.257
Voltage [V]	0.488
Resistance [ $\text{m}\Omega$ ]	3.753
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)	$(5.90 \pm 0.02) \times E-4$	$(-1.769 \pm 0.004) \times E-3$
2 (quadrupole)	$(1.000000 \pm 0.000002)$	$(-1.021 \pm 0.002) \times E-3$
3 (sextupole)	$(6.9 \pm 0.2) \times E-5$	$(-8.23 \pm 0.04) \times E-4$
4	$(-1.7 \pm 0.3) \times E-5$	$(6.5 \pm 0.4) \times E-5$
5	$(-9 \pm 3) \times E-6$	$(5.5 \pm 0.5) \times E-5$
6	$(-1.209 \pm 0.003) \times E-3$	$(-5 \pm 2) \times E-6$
7	$(2.1 \pm 0.3) \times E-5$	$(-2 \pm 3) \times E-6$
8	$(-7 \pm 5) \times E-6$	$(-3.7 \pm 0.4) \times E-5$
9	$(-1.8 \pm 0.3) \times E-5$	$(4 \pm 3) \times E-6$
10	$(1.108 \pm 0.002) \times E-3$	$(-1 \pm 3) \times E-6$
11	$(-9.0 \pm 36.1) \times E-7$	$(-2.7 \pm 0.6) \times E-5$
12	$(6 \pm 6) \times E-6$	$(8 \pm 3) \times E-6$
13	$(-1.0 \pm 0.4) \times E-5$	$(2.4 \pm 0.6) \times E-5$
14	$(-10.0 \pm 0.5) \times E-5$	$(-8.6 \pm 44.7) \times E-7$
15	$(-1.3 \pm 0.4) \times E-5$	$(-1.4 \pm 0.7) \times E-5$

