



# BQF-016

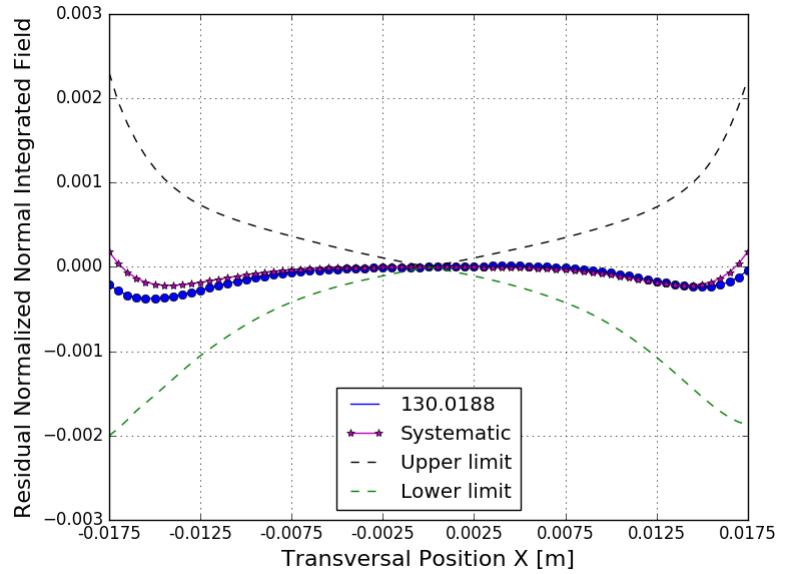
## BOOSTER MAGNET REPORT

### Results

Date	30/03/2016
Hour	15:17:31
Temperature [°C]	21.2
Number of Measurements	17
Main Coil Current [A]	$(130.0188 \pm 0.0005)$
Trim Coil Current [A]	$(0 \pm 0)$
Integrated Gradient [T]	$(-4.82306 \pm 0.00001)$
Magnet Center Offset X [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(-10.07 \pm 0.05)$
Magnet Center Offset Y [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(-44.40 \pm 0.08)$
Roll [mrad] - ( $< \pm 0.8$ )	$(-3.37 \pm 0.03) \times E-1$

### Electric Parameters

Inductance [mH]	8.266
Voltage [V]	0.483
Resistance [ $\text{m}\Omega$ ]	3.715
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)	$(-5.76 \pm 0.03) \times E-4$	$(-2.537 \pm 0.004) \times E-3$
2 (quadrupole)	$(1.000000 \pm 0.000002)$	$(-6.74 \pm 0.02) \times E-4$
3 (sextupole)	$(6.7 \pm 0.3) \times E-5$	$(-7.00 \pm 0.03) \times E-4$
4	$(2 \pm 3) \times E-6$	$(2.2 \pm 0.4) \times E-5$
5	$(-10 \pm 3) \times E-6$	$(4.7 \pm 0.4) \times E-5$
6	$(-1.137 \pm 0.003) \times E-3$	$(-2.0 \pm 0.3) \times E-5$
7	$(5.7 \pm 0.5) \times E-5$	$(-5 \pm 4) \times E-6$
8	$(-1 \pm 1) \times E-5$	$(-4.7 \pm 0.6) \times E-5$
9	$(-3.3 \pm 0.7) \times E-5$	$(-1.6 \pm 0.4) \times E-5$
10	$(1.12 \pm 0.01) \times E-3$	$(-2.6 \pm 0.7) \times E-5$
11	$(2.8 \pm 0.8) \times E-5$	$(-2.5 \pm 0.8) \times E-5$
12	$(10 \pm 6) \times E-6$	$(4 \pm 6) \times E-6$
13	$(-2.4 \pm 0.3) \times E-5$	$(1.9 \pm 0.6) \times E-5$
14	$(-1.08 \pm 0.06) \times E-4$	$(-2.1 \pm 0.6) \times E-5$
15	$(5.7 \pm 76.9) \times E-7$	$(-2.7 \pm 0.4) \times E-5$

