



BQF-041

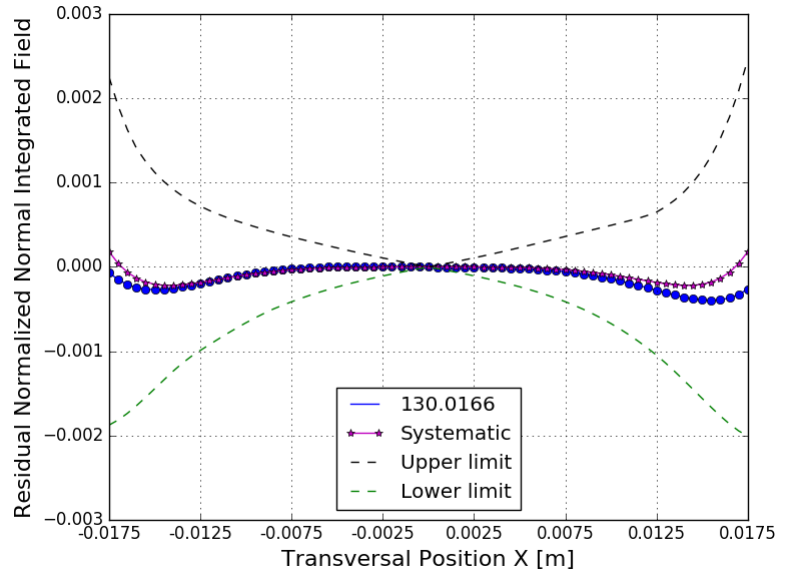
## BOOSTER MAGNET REPORT

### Results

Date	13/04/2016
Hour	13:53:03
Temperature [°C]	21.2
Number of Measurements	17
Main Coil Current [A]	$(130.0166 \pm 0.0005)$
Trim Coil Current [A]	$(0 \pm 0)$
Integrated Gradient [T]	$(-4.82206 \pm 0.00001)$
Magnet Center Offset X [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(15.57 \pm 0.06)$
Magnet Center Offset Y [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(-17.74 \pm 0.05)$
Roll [mrad] - ( $< \pm 0.8$ )	$(-5.45 \pm 0.05) \times E-1$

### Electric Parameters

Inductance [mH]	8.288
Voltage [V]	0.485
Resistance [ $\text{m}\Omega$ ]	3.730
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)	$(8.90 \pm 0.03) \times E-4$	$(-1.014 \pm 0.003) \times E-3$
2 (quadrupole)	$(1.000000 \pm 0.000002)$	$(-1.090 \pm 0.003) \times E-3$
3 (sextupole)	$(-3.1 \pm 0.4) \times E-5$	$(-7.12 \pm 0.06) \times E-4$
4	$(-7 \pm 4) \times E-6$	$(1.26 \pm 0.06) \times E-4$
5	$(-6.0 \pm 0.3) \times E-5$	$(2.6 \pm 0.4) \times E-5$
6	$(-1.167 \pm 0.005) \times E-3$	$(-1.1 \pm 0.7) \times E-5$
7	$(2.8 \pm 0.5) \times E-5$	$(6.3 \pm 62.3) \times E-7$
8	$(-2.0 \pm 0.3) \times E-5$	$(-2.7 \pm 0.6) \times E-5$
9	$(-2.6 \pm 0.4) \times E-5$	$(1.2 \pm 0.5) \times E-5$
10	$(1.114 \pm 0.005) \times E-3$	$(-8 \pm 6) \times E-6$
11	$(1.4 \pm 0.4) \times E-5$	$(-3.0 \pm 0.5) \times E-5$
12	$(7 \pm 5) \times E-6$	$(2.2 \pm 0.7) \times E-5$
13	$(-2.5 \pm 0.4) \times E-5$	$(2.4 \pm 0.5) \times E-5$
14	$(-9.3 \pm 0.5) \times E-5$	$(-9 \pm 5) \times E-6$
15	$(3 \pm 5) \times E-6$	$(-2.2 \pm 0.5) \times E-5$

