



BQD-005

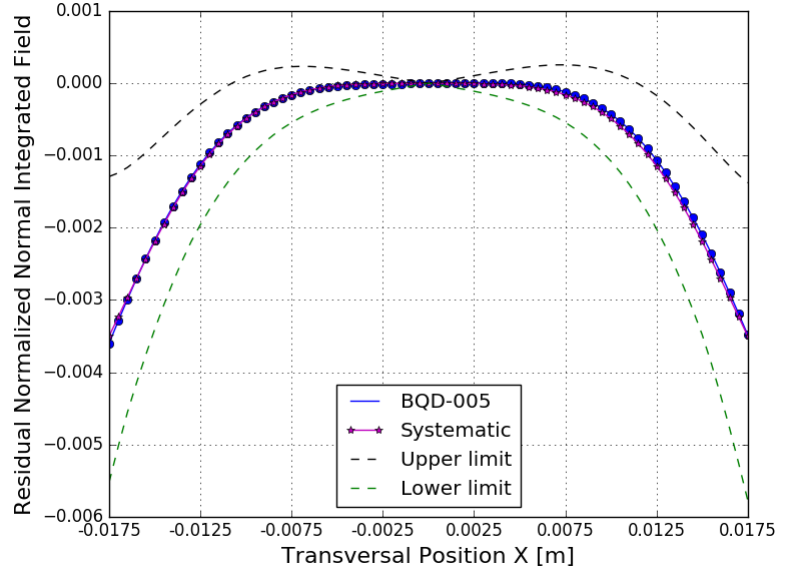
## BOOSTER MAGNET REPORT

### Results

Date	09/05/2016
Hour	09:07:56
Temperature [°C]	23.5
Number of Measurements	17
Main Coil Current [A]	$(31.9678 \pm 0.0004)$
Trim Coil Current [A]	$(0 \pm 0)$
Integrated Gradient [T]	$(-5.29023 \pm 0.00007) \times 10^{-1}$
Magnet Center Offset X [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(-14.2 \pm 0.2)$
Magnet Center Offset Y [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(-53.9 \pm 0.2)$
Roll [mrad] - ( $< \pm 0.8$ )	$(-4.9 \pm 0.2) \times 10^{-1}$

### Electric Parameters

Inductance [mH]	3.736
Voltage [V]	0.3012
Resistance [ $\text{m}\Omega$ ]	30.12
Main Coil Number of Turns	27.5



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)	$(-8.1 \pm 0.1) \times 10^{-4}$	$(-3.08 \pm 0.01) \times 10^{-3}$
2 (quadrupole)	$(1.00000 \pm 0.00001)$	$(-9.9 \pm 0.2) \times 10^{-4}$
3 (sextupole)	$(5.8 \pm 0.9) \times 10^{-5}$	$(-5.4 \pm 0.2) \times 10^{-4}$
4	$(1.0 \pm 0.1) \times 10^{-4}$	$(1.3 \pm 0.2) \times 10^{-4}$
5	$(-5 \pm 2) \times 10^{-5}$	$(3 \pm 1) \times 10^{-5}$
6	$(-4.67 \pm 0.02) \times 10^{-3}$	$(-4 \pm 3) \times 10^{-5}$
7	$(5 \pm 2) \times 10^{-5}$	$(-1 \pm 3) \times 10^{-5}$
8	$(-1 \pm 2) \times 10^{-5}$	$(-4 \pm 4) \times 10^{-5}$
9	$(-6.3 \pm 16.4) \times 10^{-6}$	$(7.8 \pm 24.7) \times 10^{-6}$
10	$(1.14 \pm 0.02) \times 10^{-3}$	$(-2 \pm 3) \times 10^{-5}$
11	$(-2 \pm 3) \times 10^{-5}$	$(-3 \pm 2) \times 10^{-5}$
12	$(2 \pm 3) \times 10^{-5}$	$(-2 \pm 4) \times 10^{-5}$
13	$(2 \pm 4) \times 10^{-5}$	$(-6.7 \pm 47.1) \times 10^{-6}$
14	$(-1 \pm 1) \times 10^{-4}$	$(-9 \pm 10) \times 10^{-5}$
15	$(9.5 \pm 62.8) \times 10^{-6}$	$(7 \pm 7) \times 10^{-5}$

