



BQD-006

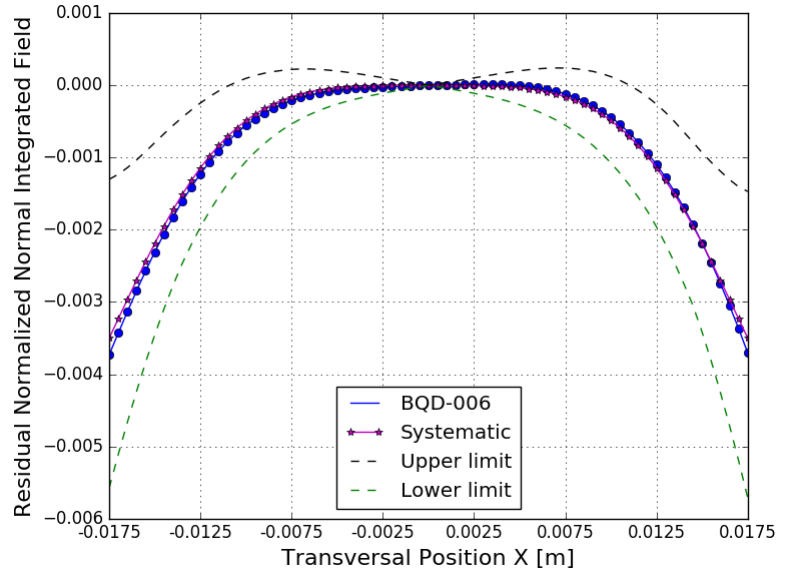
## BOOSTER MAGNET REPORT

### Results

Date	04/05/2016
Hour	15:44:41
Temperature [°C]	23.2
Number of Measurements	17
Main Coil Current [A]	$(31.9804 \pm 0.0004)$
Trim Coil Current [A]	--
Integrated Gradient [T]	$(-5.30946 \pm 0.00006) \times 10^{-1}$
Magnet Center Offset X [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(6.09 \pm 0.08)$
Magnet Center Offset Y [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(-25.6 \pm 0.2)$
Roll [mrad] - ( $< \pm 0.8$ )	$(-4.2 \pm 0.2) \times 10^{-1}$

### Electric Parameters

Inductance [mH]	3.692
Voltage [V]	0.2762
Resistance [m $\Omega$ ]	27.62
Main Coil Number of Turns	27.5



n	Normalized Normal Multipoles $x=17.5 \text{ mm}$ [T.m <sup>(2-n)</sup> ]	Normalized Skew Multipoles $x=17.5 \text{ mm}$ [T.m <sup>(2-n)</sup> ]
1 (dipole)	$(3.48 \pm 0.05) \times 10^{-4}$	$(-1.47 \pm 0.01) \times 10^{-3}$
2 (quadrupole)	$(1.00000 \pm 0.00001)$	$(-8.3 \pm 0.1) \times 10^{-4}$
3 (sextupole)	$(1.19 \pm 0.07) \times 10^{-4}$	$(-1.12 \pm 0.01) \times 10^{-3}$
4	$(-3.4 \pm 0.8) \times 10^{-5}$	$(10 \pm 1) \times 10^{-5}$
5	$(-7 \pm 1) \times 10^{-5}$	$(9 \pm 1) \times 10^{-5}$
6	$(-4.67 \pm 0.01) \times 10^{-3}$	$(-8 \pm 2) \times 10^{-5}$
7	$(5 \pm 1) \times 10^{-5}$	$(2 \pm 1) \times 10^{-5}$
8	$(-5 \pm 1) \times 10^{-5}$	$(-4 \pm 2) \times 10^{-5}$
9	$(-3 \pm 1) \times 10^{-5}$	$(-7 \pm 2) \times 10^{-5}$
10	$(1.18 \pm 0.02) \times 10^{-3}$	$(-5 \pm 1) \times 10^{-5}$
11	$(-3.19 \pm 171.73) \times 10^{-7}$	$(-5 \pm 1) \times 10^{-5}$
12	$(-3 \pm 1) \times 10^{-5}$	$(-2 \pm 2) \times 10^{-5}$
13	$(-4 \pm 2) \times 10^{-5}$	$(-5 \pm 2) \times 10^{-5}$
14	$(-1.2 \pm 0.3) \times 10^{-4}$	$(-5 \pm 2) \times 10^{-5}$
15	$(-1 \pm 2) \times 10^{-5}$	$(-8 \pm 2) \times 10^{-5}$

