



# BQD-007

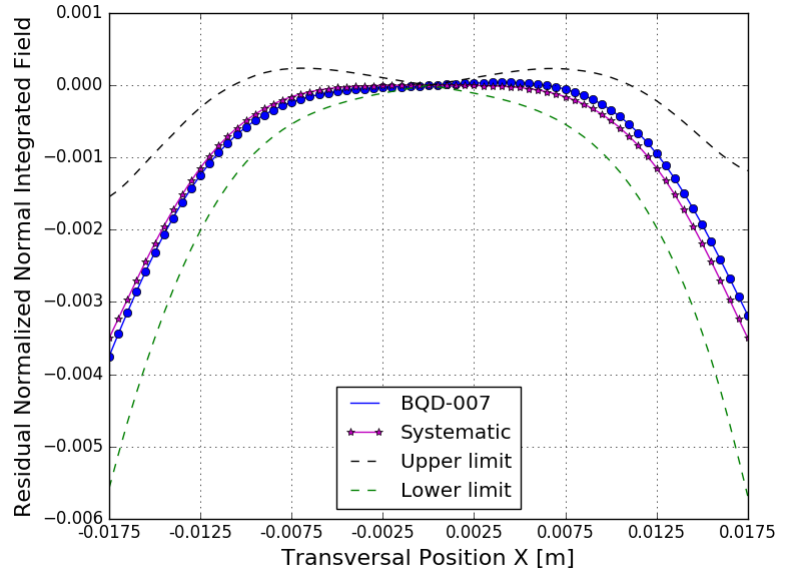
## BOOSTER MAGNET REPORT

### Results

Date	06/05/2016
Hour	15:56:25
Temperature [°C]	24.1
Number of Measurements	17
Main Coil Current [A]	$(31.9632 \pm 0.0003)$
Trim Coil Current [A]	$(0 \pm 0)$
Integrated Gradient [T]	$(-5.29809 \pm 0.00007) \times 10^{-1}$
Magnet Center Offset X [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(-13.6 \pm 0.2)$
Magnet Center Offset Y [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(-44.9 \pm 0.3)$
Roll [mrad] - ( $< \pm 0.8$ )	$(-3.8 \pm 0.2) \times 10^{-1}$

### Electric Parameters

Inductance [mH]	3.731
Voltage [V]	0.3027
Resistance [m $\Omega$ ]	30.27
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)	$(-7.77 \pm 0.09) \times 10^{-4}$	$(-2.56 \pm 0.02) \times 10^{-3}$
2 (quadrupole)	$(1.00000 \pm 0.00001)$	$(-7.6 \pm 0.2) \times 10^{-4}$
3 (sextupole)	$(2.1 \pm 0.1) \times 10^{-4}$	$(-7.3 \pm 0.2) \times 10^{-4}$
4	$(7 \pm 2) \times 10^{-5}$	$(4.6 \pm 20.1) \times 10^{-6}$
5	$(-4 \pm 2) \times 10^{-5}$	$(6 \pm 2) \times 10^{-5}$
6	$(-4.64 \pm 0.02) \times 10^{-3}$	$(-6 \pm 2) \times 10^{-5}$
7	$(6 \pm 2) \times 10^{-5}$	$(-9.3 \pm 16.4) \times 10^{-6}$
8	$(1.5 \pm 18.8) \times 10^{-6}$	$(-4 \pm 3) \times 10^{-5}$
9	$(-4 \pm 3) \times 10^{-5}$	$(-4 \pm 2) \times 10^{-5}$
10	$(1.20 \pm 0.03) \times 10^{-3}$	$(-6.8 \pm 21.2) \times 10^{-6}$
11	$(5 \pm 2) \times 10^{-5}$	$(-6 \pm 1) \times 10^{-5}$
12	$(-5.3 \pm 16.2) \times 10^{-6}$	$(-1 \pm 2) \times 10^{-5}$
13	$(2 \pm 4) \times 10^{-5}$	$(5.9 \pm 21.4) \times 10^{-6}$
14	$(-8 \pm 2) \times 10^{-5}$	$(-3 \pm 2) \times 10^{-5}$
15	$(1 \pm 2) \times 10^{-5}$	$(-6.0 \pm 29.3) \times 10^{-6}$

