



BQD-024

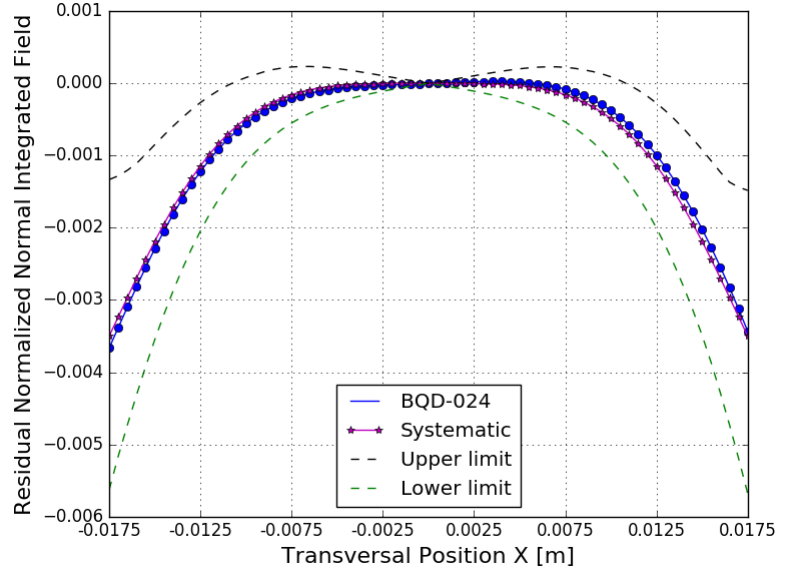
## BOOSTER MAGNET REPORT

### Results

Date	09/05/2016
Hour	11:47:32
Temperature [°C]	23.6
Number of Measurements	17
Main Coil Current [A]	$(31.9652 \pm 0.0005)$
Trim Coil Current [A]	--
Integrated Gradient [T]	$(-5.30048 \pm 0.00004) \times 10^{-1}$
Magnet Center Offset X [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(-11.0 \pm 0.1)$
Magnet Center Offset Y [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(-39.4 \pm 0.4)$
Roll [mrad] - ( $< \pm 0.8$ )	$(-3.7 \pm 0.2) \times 10^{-1}$

### Electric Parameters

Inductance [mH]	3.743
Voltage [V]	0.2758
Resistance [ $\text{m}\Omega$ ]	27.58
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)	$(-6.28 \pm 0.07) \times 10^{-4}$	$(-2.25 \pm 0.02) \times 10^{-3}$
2 (quadrupole)	$(1.000000 \pm 0.000008)$	$(-7.4 \pm 0.1) \times 10^{-4}$
3 (sextupole)	$(1.51 \pm 0.06) \times 10^{-4}$	$(-6.6 \pm 0.2) \times 10^{-4}$
4	$(5.5 \pm 0.9) \times 10^{-5}$	$(6 \pm 2) \times 10^{-5}$
5	$(3.8 \pm 15.4) \times 10^{-6}$	$(6 \pm 1) \times 10^{-5}$
6	$(-4.64 \pm 0.01) \times 10^{-3}$	$(-8.10 \pm 238.81) \times 10^{-7}$
7	$(5 \pm 2) \times 10^{-5}$	$(8 \pm 2) \times 10^{-5}$
8	$(-6 \pm 2) \times 10^{-5}$	$(-3 \pm 2) \times 10^{-5}$
9	$(-2 \pm 2) \times 10^{-5}$	$(8.4 \pm 10.7) \times 10^{-6}$
10	$(1.21 \pm 0.03) \times 10^{-3}$	$(-2 \pm 2) \times 10^{-5}$
11	$(8.2 \pm 24.5) \times 10^{-6}$	$(4 \pm 4) \times 10^{-5}$
12	$(-5 \pm 2) \times 10^{-5}$	$(1 \pm 2) \times 10^{-5}$
13	$(-4 \pm 2) \times 10^{-5}$	$(-2 \pm 2) \times 10^{-5}$
14	$(-7 \pm 2) \times 10^{-5}$	$(-9.0 \pm 23.5) \times 10^{-6}$
15	$(-3 \pm 3) \times 10^{-5}$	$(6 \pm 4) \times 10^{-5}$

