



BQD-014

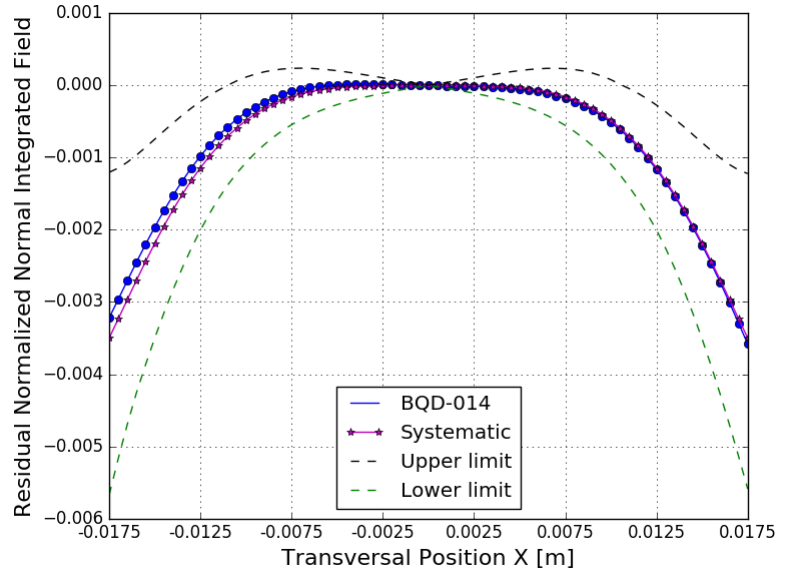
BOOSTER MAGNET REPORT

Results

Date	06/05/2016
Hour	11:00:33
Temperature [°C]	23.4
Number of Measurements	17
Main Coil Current [A]	(31.9669 ± 0.0003)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	$(-5.29267 \pm 0.00006) \times 10^{-1}$
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(-26.8 ± 0.2)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-65.9 ± 0.3)
Roll [mrad] - ($< \pm 0.8$)	$(-4.5 \pm 0.2) \times 10^{-1}$

Electric Parameters

Inductance [mH]	3.78
Voltage [V]	0.304
Resistance [$\text{m}\Omega$]	30.40
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)	$(-1.531 \pm 0.009) \times 10^{-3}$	$(-3.76 \pm 0.02) \times 10^{-3}$
2 (quadrupole)	(1.00000 ± 0.00001)	$(-9.1 \pm 0.2) \times 10^{-4}$
3 (sextupole)	$(-10 \pm 1) \times 10^{-5}$	$(-7.7 \pm 0.2) \times 10^{-4}$
4	$(1.24 \pm 0.10) \times 10^{-4}$	$(8 \pm 2) \times 10^{-5}$
5	$(-8 \pm 1) \times 10^{-5}$	$(1.1 \pm 0.2) \times 10^{-4}$
6	$(-4.68 \pm 0.01) \times 10^{-3}$	$(-2 \pm 2) \times 10^{-5}$
7	$(6 \pm 1) \times 10^{-5}$	$(3.1 \pm 22.5) \times 10^{-6}$
8	$(1 \pm 2) \times 10^{-5}$	$(-3 \pm 4) \times 10^{-5}$
9	$(-5 \pm 2) \times 10^{-5}$	$(-8.0 \pm 31.3) \times 10^{-6}$
10	$(1.20 \pm 0.03) \times 10^{-3}$	$(-4 \pm 4) \times 10^{-5}$
11	$(1 \pm 1) \times 10^{-5}$	$(-6 \pm 3) \times 10^{-5}$
12	$(3 \pm 2) \times 10^{-5}$	$(-8.4 \pm 26.4) \times 10^{-6}$
13	$(-2 \pm 2) \times 10^{-5}$	$(-2.0 \pm 27.9) \times 10^{-6}$
14	$(-9 \pm 5) \times 10^{-5}$	$(-7 \pm 4) \times 10^{-5}$
15	$(-2.5 \pm 35.4) \times 10^{-6}$	$(-7 \pm 6) \times 10^{-5}$

