



BQD-017

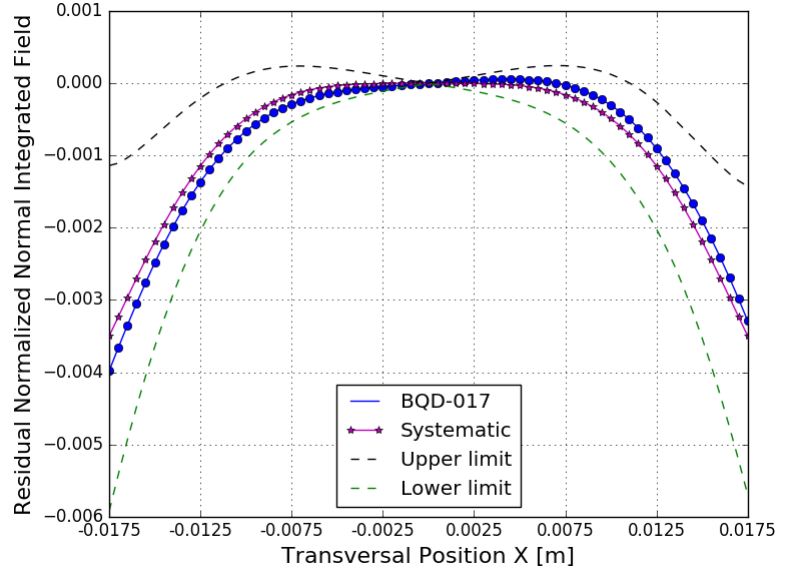
BOOSTER MAGNET REPORT

Results

Date	10/05/2016
Hour	14:48:38
Temperature [°C]	23.6
Number of Measurements	17
Main Coil Current [A]	(31.9581 ± 0.0005)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	$(-5.29580 \pm 0.00006) \times 10^{-1}$
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(-15.3 ± 0.2)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-40.7 ± 0.2)
Roll [mrad] - ($< \pm 0.8$)	$(-4.7 \pm 0.1) \times 10^{-1}$

Electric Parameters

Inductance [mH]	3.810
Voltage [V]	0.277
Resistance [$\text{m}\Omega$]	27.70
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)	$(-8.75 \pm 0.10) \times 10^{-4}$	$(-2.32 \pm 0.01) \times 10^{-3}$
2 (quadrupole)	(1.00000 ± 0.00001)	$(-9.48 \pm 0.09) \times 10^{-4}$
3 (sextupole)	$(3.1 \pm 0.2) \times 10^{-4}$	$(-6.6 \pm 0.2) \times 10^{-4}$
4	$(-5.7 \pm 15.2) \times 10^{-6}$	$(9 \pm 1) \times 10^{-5}$
5	$(1.50 \pm 242.13) \times 10^{-7}$	$(-9.1 \pm 18.6) \times 10^{-6}$
6	$(-4.61 \pm 0.02) \times 10^{-3}$	$(-6 \pm 3) \times 10^{-5}$
7	$(7 \pm 2) \times 10^{-5}$	$(3 \pm 2) \times 10^{-5}$
8	$(-5 \pm 2) \times 10^{-5}$	$(-5 \pm 2) \times 10^{-5}$
9	$(-3.6 \pm 23.6) \times 10^{-6}$	$(-4 \pm 2) \times 10^{-5}$
10	$(1.18 \pm 0.03) \times 10^{-3}$	$(-5 \pm 3) \times 10^{-5}$
11	$(4 \pm 2) \times 10^{-5}$	$(-1 \pm 3) \times 10^{-5}$
12	$(-2 \pm 3) \times 10^{-5}$	$(4.88 \pm 173.70) \times 10^{-7}$
13	$(-3 \pm 3) \times 10^{-5}$	$(1.4 \pm 30.4) \times 10^{-6}$
14	$(-1.3 \pm 0.4) \times 10^{-4}$	$(-8.2 \pm 39.0) \times 10^{-6}$
15	$(-3 \pm 2) \times 10^{-5}$	$(-1 \pm 3) \times 10^{-5}$

