



BQD-016

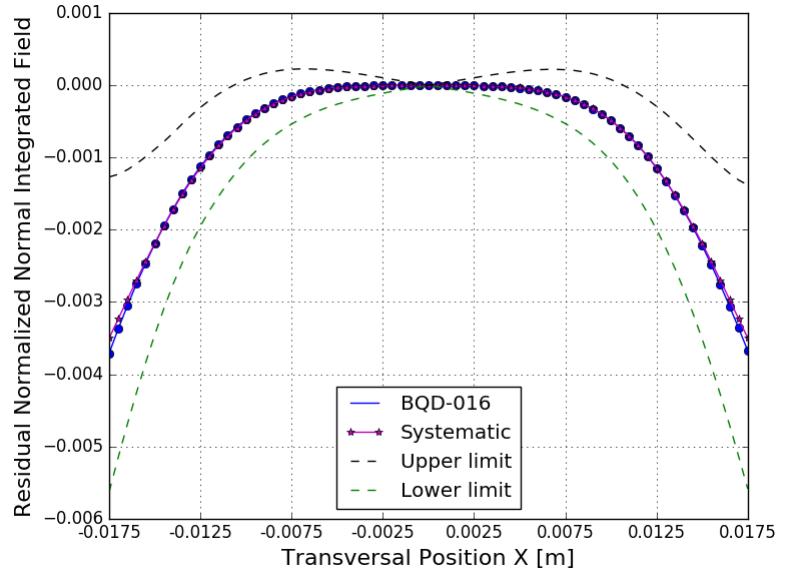
BOOSTER MAGNET REPORT

Results

Date	10/05/2016
Hour	10:23:36
Temperature [°C]	23.9
Number of Measurements	17
Main Coil Current [A]	(31.9633 ± 0.0008)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	$(-5.29352 \pm 0.00008) \times 10^{-1}$
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(-22.5 ± 0.2)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-28.5 ± 0.4)
Roll [mrad] - ($< \pm 0.8$)	$(-2.0 \pm 0.2) \times 10^{-1}$

Electric Parameters

Inductance [mH]	3.757
Voltage [V]	0.2762
Resistance [$\text{m}\Omega$]	27.62
Main Coil Number of Turns	27.5



Normalized
Normal
Multipoles
 $x=17.5 \text{ mm}$
[$\text{T}\cdot\text{m}^{(2-n)}$]

Normalized
Skew
Multipoles
 $x=17.5 \text{ mm}$
[$\text{T}\cdot\text{m}^{(2-n)}$]

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)	$(-1.283 \pm 0.010) \times 10^{-3}$	$(-1.63 \pm 0.02) \times 10^{-3}$
2 (quadrupole)	(1.00000 ± 0.00002)	$(-4.0 \pm 0.1) \times 10^{-4}$
3 (sextupole)	$(-9.4 \pm 16.5) \times 10^{-6}$	$(-1.07 \pm 0.02) \times 10^{-3}$
4	$(6 \pm 10) \times 10^{-6}$	$(1.2 \pm 0.1) \times 10^{-4}$
5	$(-1 \pm 2) \times 10^{-5}$	$(1.5 \pm 0.2) \times 10^{-4}$
6	$(-4.64 \pm 0.02) \times 10^{-3}$	$(-8.3 \pm 22.2) \times 10^{-6}$
7	$(3 \pm 2) \times 10^{-5}$	$(5 \pm 1) \times 10^{-5}$
8	$(-3 \pm 2) \times 10^{-5}$	$(4.6 \pm 11.9) \times 10^{-6}$
9	$(-5 \pm 2) \times 10^{-5}$	$(-4.0 \pm 23.8) \times 10^{-6}$
10	$(1.14 \pm 0.03) \times 10^{-3}$	$(3 \pm 2) \times 10^{-5}$
11	$(8.4 \pm 17.3) \times 10^{-6}$	$(5 \pm 3) \times 10^{-5}$
12	$(-4 \pm 2) \times 10^{-5}$	$(3 \pm 2) \times 10^{-5}$
13	$(-3 \pm 3) \times 10^{-5}$	$(3 \pm 2) \times 10^{-5}$
14	$(-1.4 \pm 0.3) \times 10^{-4}$	$(1.7 \pm 27.0) \times 10^{-6}$
15	$(8 \pm 4) \times 10^{-5}$	$(8 \pm 3) \times 10^{-5}$

