



BQD-010

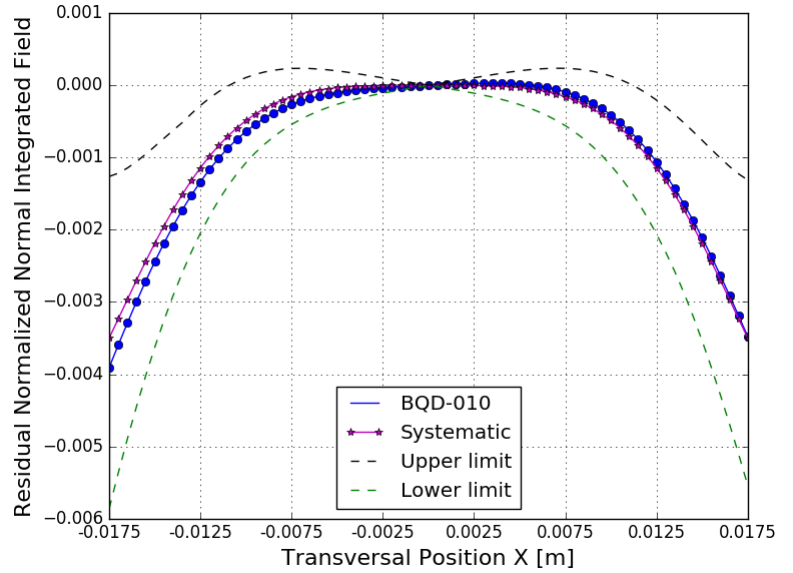
BOOSTER MAGNET REPORT

Results

Date	06/05/2016
Hour	14:38:31
Temperature [°C]	23.7
Number of Measurements	17
Main Coil Current [A]	(31.9633 ± 0.0008)
Trim Coil Current [A]	--
Integrated Gradient [T]	$(-5.29710 \pm 0.00004) \times 10^{-1}$
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(5.5 ± 0.1)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-44.6 ± 0.3)
Roll [mrad] - ($< \pm 0.8$)	$(-5.3 \pm 0.3) \times 10^{-1}$

Electric Parameters

Inductance [mH]	3.715
Voltage [V]	0.2781
Resistance [$\text{m}\Omega$]	27.81
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)	$(3.15 \pm 0.06) \times 10^{-4}$	$(-2.55 \pm 0.02) \times 10^{-3}$
2 (quadrupole)	(1.000000 ± 0.000008)	$(-1.05 \pm 0.02) \times 10^{-3}$
3 (sextupole)	$(2.2 \pm 0.1) \times 10^{-4}$	$(-4.6 \pm 0.2) \times 10^{-4}$
4	$(-1.2 \pm 0.1) \times 10^{-4}$	$(1.2 \pm 0.2) \times 10^{-4}$
5	$(-7 \pm 1) \times 10^{-5}$	$(2 \pm 2) \times 10^{-5}$
6	$(-4.66 \pm 0.01) \times 10^{-3}$	$(9.7 \pm 16.8) \times 10^{-6}$
7	$(3 \pm 1) \times 10^{-5}$	$(3 \pm 3) \times 10^{-5}$
8	$(-2 \pm 3) \times 10^{-5}$	$(-1 \pm 2) \times 10^{-5}$
9	$(-1 \pm 2) \times 10^{-5}$	$(4 \pm 3) \times 10^{-5}$
10	$(1.18 \pm 0.02) \times 10^{-3}$	$(1 \pm 3) \times 10^{-5}$
11	$(2 \pm 2) \times 10^{-5}$	$(1 \pm 3) \times 10^{-5}$
12	$(3 \pm 4) \times 10^{-5}$	$(8.5 \pm 22.8) \times 10^{-6}$
13	$(1 \pm 3) \times 10^{-5}$	$(5 \pm 4) \times 10^{-5}$
14	$(-1.1 \pm 0.3) \times 10^{-4}$	$(7.9 \pm 35.3) \times 10^{-6}$
15	$(4.5 \pm 29.6) \times 10^{-6}$	$(-2 \pm 4) \times 10^{-5}$

