



BQD-004

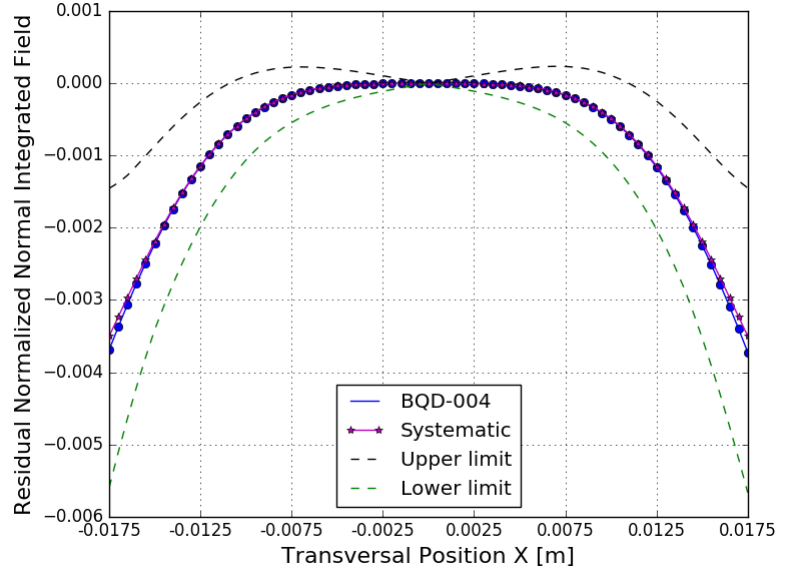
BOOSTER MAGNET REPORT

Results

Date	05/05/2016
Hour	12:21:15
Temperature [°C]	23.6
Number of Measurements	17
Main Coil Current [A]	(31.9712 ± 0.0005)
Trim Coil Current [A]	--
Integrated Gradient [T]	$(-5.28973 \pm 0.00006) \times 10^{-1}$
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(-3.6 ± 0.1)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-7.8 ± 0.2)
Roll [mrad] - ($< \pm 0.8$)	$(-3.9 \pm 0.1) \times 10^{-1}$

Electric Parameters

Inductance [mH]	3.720
Voltage [V]	0.2792
Resistance [$\text{m}\Omega$]	27.92
Main Coil Number of Turns	27.5



n	Normalized Normal Multipoles $x=17.5 \text{ mm}$ [T.m ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles $x=17.5 \text{ mm}$ [T.m ⁽²⁻ⁿ⁾]
1 (dipole)	$(-2.07 \pm 0.08) \times 10^{-4}$	$(-4.46 \pm 0.10) \times 10^{-4}$
2 (quadrupole)	(1.00000 ± 0.00001)	$(-7.89 \pm 0.09) \times 10^{-4}$
3 (sextupole)	$(7 \pm 9) \times 10^{-6}$	$(-6.0 \pm 0.1) \times 10^{-4}$
4	$(-2 \pm 1) \times 10^{-5}$	$(1.2 \pm 0.1) \times 10^{-4}$
5	$(-6 \pm 1) \times 10^{-5}$	$(-4 \pm 2) \times 10^{-5}$
6	$(-4.67 \pm 0.01) \times 10^{-3}$	$(1 \pm 2) \times 10^{-5}$
7	$(6 \pm 1) \times 10^{-5}$	$(2 \pm 2) \times 10^{-5}$
8	$(-3 \pm 1) \times 10^{-5}$	$(-2 \pm 2) \times 10^{-5}$
9	$(-2 \pm 2) \times 10^{-5}$	$(-2.2 \pm 17.6) \times 10^{-6}$
10	$(1.17 \pm 0.03) \times 10^{-3}$	$(2.1 \pm 19.4) \times 10^{-6}$
11	$(3 \pm 1) \times 10^{-5}$	$(2.3 \pm 27.0) \times 10^{-6}$
12	$(-2 \pm 2) \times 10^{-5}$	$(5 \pm 2) \times 10^{-5}$
13	$(-2.7 \pm 1.0) \times 10^{-5}$	$(8.3 \pm 23.7) \times 10^{-6}$
14	$(-1.4 \pm 0.2) \times 10^{-4}$	$(3 \pm 2) \times 10^{-5}$
15	$(-6.7 \pm 30.1) \times 10^{-6}$	$(2 \pm 2) \times 10^{-5}$

