



BQD-021

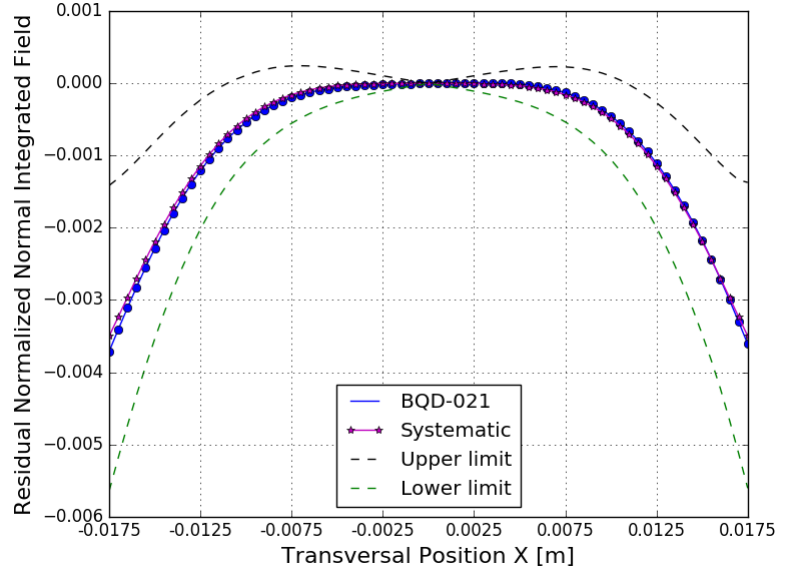
BOOSTER MAGNET REPORT

Results

Date	09/05/2016
Hour	16:17:21
Temperature [°C]	23.9
Number of Measurements	17
Main Coil Current [A]	(31.9603 ± 0.0005)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	$(-5.29545 \pm 0.00005) \times 10^{-1}$
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(-15.04 ± 0.10)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-42.1 ± 0.2)
Roll [mrad] - ($< \pm 0.8$)	$(-2.8 \pm 0.1) \times 10^{-1}$

Electric Parameters

Inductance [mH]	3.735
Voltage [V]	0.276
Resistance [$\text{m}\Omega$]	27.60
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)	$(-8.59 \pm 0.05) \times 10^{-4}$	$(-2.41 \pm 0.01) \times 10^{-3}$
2 (quadrupole)	(1.000000 ± 0.000009)	$(-5.56 \pm 0.09) \times 10^{-4}$
3 (sextupole)	$(8.5 \pm 0.7) \times 10^{-5}$	$(-8.24 \pm 0.09) \times 10^{-4}$
4	$(-3.9 \pm 0.8) \times 10^{-5}$	$(1.0 \pm 0.2) \times 10^{-4}$
5	$(-4 \pm 2) \times 10^{-5}$	$(1.3 \pm 0.1) \times 10^{-4}$
6	$(-4.65 \pm 0.01) \times 10^{-3}$	$(-2 \pm 2) \times 10^{-5}$
7	$(4 \pm 2) \times 10^{-5}$	$(7 \pm 2) \times 10^{-5}$
8	$(-4 \pm 2) \times 10^{-5}$	$(-3 \pm 2) \times 10^{-5}$
9	$(-3 \pm 2) \times 10^{-5}$	$(-2 \pm 2) \times 10^{-5}$
10	$(1.18 \pm 0.02) \times 10^{-3}$	$(-2 \pm 2) \times 10^{-5}$
11	$(-7.4 \pm 29.3) \times 10^{-6}$	$(4.0 \pm 21.9) \times 10^{-6}$
12	$(-2.3 \pm 21.9) \times 10^{-6}$	$(5 \pm 3) \times 10^{-5}$
13	$(-1 \pm 3) \times 10^{-5}$	$(-4.7 \pm 23.4) \times 10^{-6}$
14	$(-1.1 \pm 0.3) \times 10^{-4}$	$(-1 \pm 3) \times 10^{-5}$
15	$(8.4 \pm 18.4) \times 10^{-6}$	$(-8.4 \pm 22.2) \times 10^{-6}$

