



BQD-023

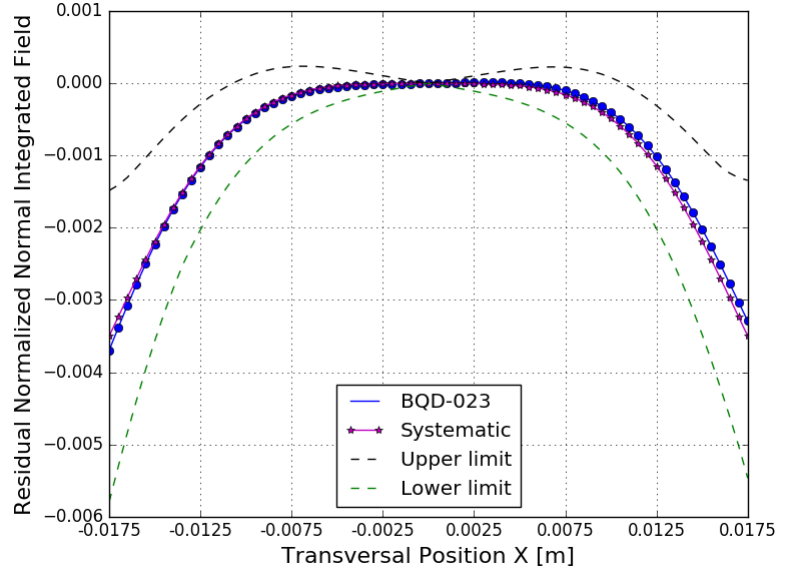
BOOSTER MAGNET REPORT

Results

Date	09/05/2016
Hour	10:17:54
Temperature [°C]	23.6
Number of Measurements	17
Main Coil Current [A]	(31.9679 ± 0.0004)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	$(-5.29156 \pm 0.00004) \times 10^{-1}$
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(-14.2 ± 0.1)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-46.2 ± 0.3)
Roll [mrad] - ($< \pm 0.8$)	$(-4.1 \pm 0.1) \times 10^{-1}$

Electric Parameters

Inductance [mH]	3.752
Voltage [V]	0.2763
Resistance [$\text{m}\Omega$]	27.63
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)	$(-8.14 \pm 0.06) \times 10^{-4}$	$(-2.64 \pm 0.02) \times 10^{-3}$
2 (quadrupole)	(1.000000 ± 0.000008)	$(-8.28 \pm 0.09) \times 10^{-4}$
3 (sextupole)	$(8.5 \pm 0.6) \times 10^{-5}$	$(-5.9 \pm 0.2) \times 10^{-4}$
4	$(1.2 \pm 0.1) \times 10^{-4}$	$(6 \pm 2) \times 10^{-5}$
5	$(-1 \pm 1) \times 10^{-5}$	$(4 \pm 1) \times 10^{-5}$
6	$(-4.70 \pm 0.02) \times 10^{-3}$	$(-2 \pm 1) \times 10^{-5}$
7	$(8 \pm 2) \times 10^{-5}$	$(-1 \pm 2) \times 10^{-5}$
8	$(-3 \pm 2) \times 10^{-5}$	$(-3.0 \pm 30.1) \times 10^{-6}$
9	$(-1 \pm 2) \times 10^{-5}$	$(-7 \pm 2) \times 10^{-5}$
10	$(1.19 \pm 0.02) \times 10^{-3}$	$(-4 \pm 3) \times 10^{-5}$
11	$(3 \pm 2) \times 10^{-5}$	$(-1 \pm 2) \times 10^{-5}$
12	$(-1 \pm 3) \times 10^{-5}$	$(2.8 \pm 40.6) \times 10^{-6}$
13	$(1.2 \pm 20.3) \times 10^{-6}$	$(-1 \pm 3) \times 10^{-5}$
14	$(-7 \pm 3) \times 10^{-5}$	$(-4 \pm 4) \times 10^{-5}$
15	$(3 \pm 4) \times 10^{-5}$	$(-3 \pm 2) \times 10^{-5}$

