



BQD-025

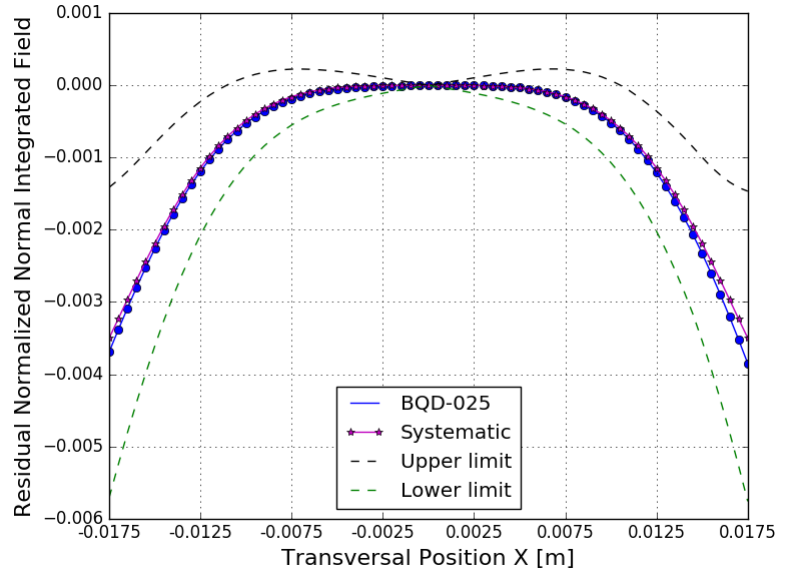
BOOSTER MAGNET REPORT

Results

Date	11/05/2016
Hour	14:06:32
Temperature [°C]	23.7
Number of Measurements	17
Main Coil Current [A]	(31.98 ± 0.01)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	$(-5.29128 \pm 0.00005) \times 10^{-1}$
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(16.0 ± 0.1)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-50.1 ± 0.3)
Roll [mrad] - ($< \pm 0.8$)	$(-3.4 \pm 0.2) \times 10^{-1}$

Electric Parameters

Inductance [mH]	3.733
Voltage [V]	0.2791
Resistance [$\text{m}\Omega$]	27.91
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)	$(9.13 \pm 0.07) \times 10^{-4}$	$(-2.86 \pm 0.02) \times 10^{-3}$
2 (quadrupole)	(1.000000 ± 0.000009)	$(-6.9 \pm 0.1) \times 10^{-4}$
3 (sextupole)	$(3.9 \pm 0.9) \times 10^{-5}$	$(-5.8 \pm 0.1) \times 10^{-4}$
4	$(-1.1 \pm 0.2) \times 10^{-4}$	$(1.5 \pm 0.1) \times 10^{-4}$
5	$(-1.1 \pm 0.1) \times 10^{-4}$	$(7 \pm 1) \times 10^{-5}$
6	$(-4.67 \pm 0.01) \times 10^{-3}$	$(3.4 \pm 16.3) \times 10^{-6}$
7	$(3 \pm 2) \times 10^{-5}$	$(7 \pm 1) \times 10^{-5}$
8	$(-2 \pm 2) \times 10^{-5}$	$(-7.1 \pm 17.8) \times 10^{-6}$
9	$(-5 \pm 2) \times 10^{-5}$	$(4 \pm 2) \times 10^{-5}$
10	$(1.14 \pm 0.02) \times 10^{-3}$	$(9.6 \pm 28.8) \times 10^{-6}$
11	$(3 \pm 2) \times 10^{-5}$	$(1 \pm 2) \times 10^{-5}$
12	$(-8.4 \pm 17.9) \times 10^{-6}$	$(1 \pm 2) \times 10^{-5}$
13	$(-6 \pm 3) \times 10^{-5}$	$(3 \pm 3) \times 10^{-5}$
14	$(-1.1 \pm 0.2) \times 10^{-4}$	$(-1 \pm 3) \times 10^{-5}$
15	$(3 \pm 3) \times 10^{-5}$	$(-1 \pm 2) \times 10^{-5}$

