



BQF-011

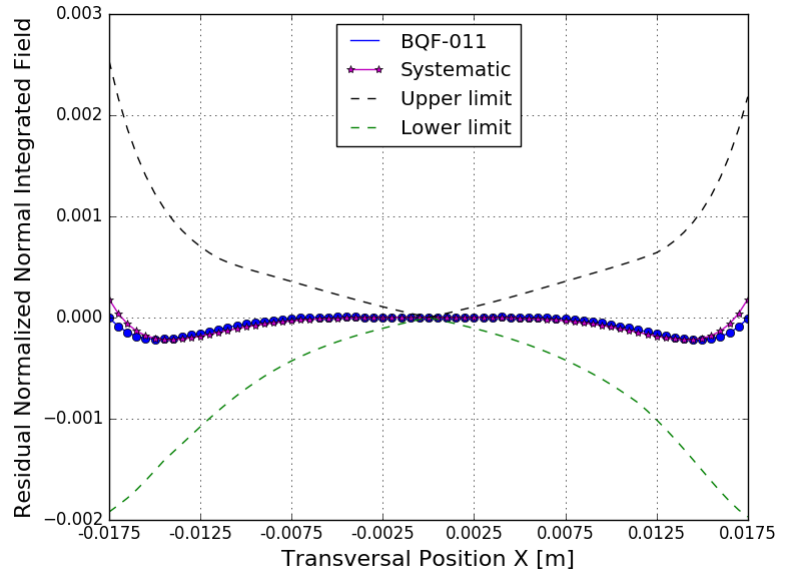
BOOSTER MAGNET REPORT

Results

Date	31/03/2016
Hour	10:18:56
Temperature [°C]	21.2
Number of Measurements	17
Main Coil Current [A]	(129.9993 ± 0.0005)
Trim Coil Current [A]	--
Integrated Gradient [T]	(-4.821787 ± 0.000009)
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(2.26 ± 0.08)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-10.51 ± 0.05)
Roll [mrad] - ($< \pm 0.8$)	$(-4.84 \pm 0.05) \times E-1$

Electric Parameters

Inductance [mH]	8.278
Voltage [V]	0.485
Resistance [$\text{m}\Omega$]	48.50
Main Coil Number of Turns	26.25



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)	$(1.29 \pm 0.05) \times E-4$	$(-6.01 \pm 0.03) \times E-4$
2 (quadrupole)	(1.000000 ± 0.000002)	$(-9.68 \pm 0.03) \times E-4$
3 (sextupole)	$(1 \pm 3) \times E-6$	$(-6.93 \pm 0.04) \times E-4$
4	$(1.39 \pm 0.04) \times E-4$	$(6.9 \pm 0.4) \times E-5$
5	$(-3.8 \pm 0.2) \times E-5$	$(2.2 \pm 0.3) \times E-5$
6	$(-1.153 \pm 0.004) \times E-3$	$(-2.3 \pm 0.3) \times E-5$
7	$(6.3 \pm 0.4) \times E-5$	$(8 \pm 4) \times E-6$
8	$(-3.1 \pm 0.3) \times E-5$	$(-3.0 \pm 0.4) \times E-5$
9	$(-3.2 \pm 0.4) \times E-5$	$(2 \pm 4) \times E-6$
10	$(1.128 \pm 0.005) \times E-3$	$(-2.7 \pm 0.5) \times E-5$
11	$(2.5 \pm 0.6) \times E-5$	$(-2.7 \pm 0.5) \times E-5$
12	$(7 \pm 5) \times E-6$	$(1.7 \pm 0.4) \times E-5$
13	$(-3.1 \pm 0.4) \times E-5$	$(10 \pm 3) \times E-6$
14	$(-9.6 \pm 0.4) \times E-5$	$(-2.7 \pm 0.5) \times E-5$
15	$(10 \pm 6) \times E-6$	$(-1.9 \pm 0.8) \times E-5$

