



BQF-033

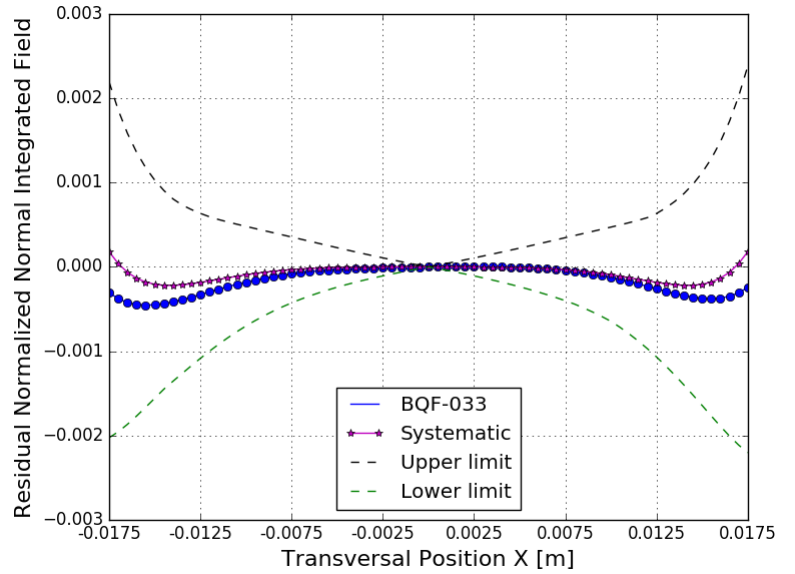
BOOSTER MAGNET REPORT

Results

Date	14/04/2016
Hour	10:00:16
Temperature [°C]	21.4
Number of Measurements	17
Main Coil Current [A]	(130.0085 ± 0.0004)
Trim Coil Current [A]	--
Integrated Gradient [T]	(-4.825481 ± 0.000009)
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(9.88 ± 0.04)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-20.13 ± 0.10)
Roll [mrad] - ($< \pm 0.8$)	$(-3.53 \pm 0.04) \times E-1$

Electric Parameters

Inductance [mH]	8.294
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)	$(5.65 \pm 0.03) \times E-4$	$(-1.150 \pm 0.006) \times E-3$
2 (quadrupole)	(1.000000 ± 0.000002)	$(-7.06 \pm 0.03) \times E-4$
3 (sextupole)	$(4.9 \pm 0.2) \times E-5$	$(-5.49 \pm 0.06) \times E-4$
4	$(-1.31 \pm 0.02) \times E-4$	$(1.11 \pm 0.04) \times E-4$
5	$(-1.6 \pm 0.4) \times E-5$	$(2.3 \pm 0.5) \times E-5$
6	$(-1.144 \pm 0.002) \times E-3$	$(-1.8 \pm 0.5) \times E-5$
7	$(4.7 \pm 0.4) \times E-5$	$(-4 \pm 4) \times E-6$
8	$(-8 \pm 3) \times E-6$	$(-3.9 \pm 0.5) \times E-5$
9	$(-4.3 \pm 0.4) \times E-5$	$(1.2 \pm 0.5) \times E-5$
10	$(1.101 \pm 0.004) \times E-3$	$(-1.3 \pm 0.5) \times E-5$
11	$(9 \pm 5) \times E-6$	$(-2.8 \pm 0.5) \times E-5$
12	$(2.5 \pm 53.2) \times E-7$	$(2.0 \pm 0.5) \times E-5$
13	$(-2.1 \pm 0.4) \times E-5$	$(2.3 \pm 0.5) \times E-5$
14	$(-9.3 \pm 0.5) \times E-5$	$(-1.3 \pm 0.4) \times E-5$
15	$(7 \pm 3) \times E-6$	$(-2.0 \pm 0.6) \times E-5$

