



BQF-047

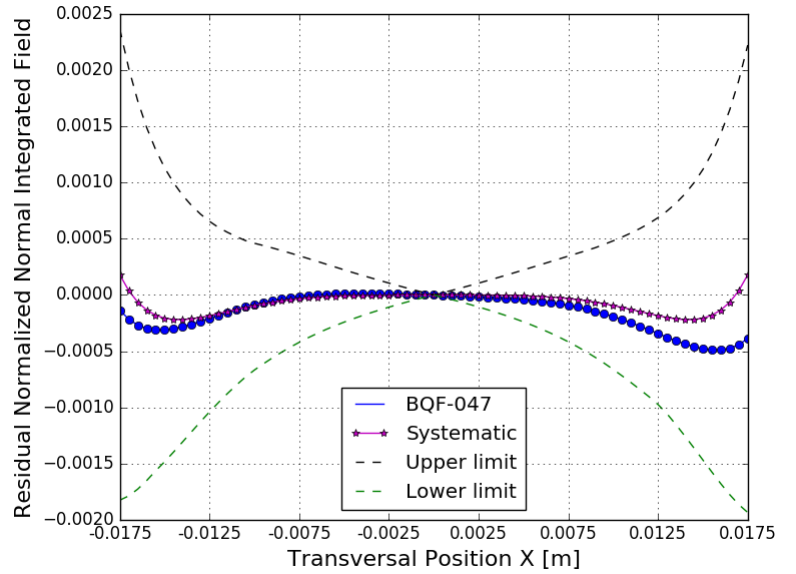
BOOSTER MAGNET REPORT

Results

Date	06/04/2016
Hour	13:09:28
Temperature [°C]	21.0
Number of Measurements	17
Main Coil Current [A]	(130.0107 ± 0.0004)
Trim Coil Current [A]	--
Integrated Gradient [T]	(-4.81778 ± 0.00002)
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(21.22 ± 0.09)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-21.81 ± 0.08)
Roll [mrad] - ($< \pm 0.8$)	$(-4.15 \pm 0.08) \times E-1$

Electric Parameters

Inductance [mH]	8.365
Voltage [V]	0.481
Resistance [$\text{m}\Omega$]	48.10
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)	$(1.213 \pm 0.005) \times E-3$	$(-1.246 \pm 0.004) \times E-3$
2 (quadrupole)	(1.000000 ± 0.000005)	$(-8.29 \pm 0.05) \times E-4$
3 (sextupole)	$(-9.2 \pm 0.6) \times E-5$	$(-5.47 \pm 0.04) \times E-4$
4	$(-6.2 \pm 0.4) \times E-5$	$(9.6 \pm 0.3) \times E-5$
5	$(-1.9 \pm 0.6) \times E-5$	$(2.7 \pm 0.7) \times E-5$
6	$(-1.207 \pm 0.006) \times E-3$	$(-7 \pm 7) \times E-6$
7	$(3.5 \pm 0.7) \times E-5$	$(-3 \pm 5) \times E-6$
8	$(-1.8 \pm 0.7) \times E-5$	$(-3.1 \pm 0.4) \times E-5$
9	$(-8 \pm 8) \times E-6$	$(1.9 \pm 0.6) \times E-5$
10	$(1.101 \pm 0.004) \times E-3$	$(9.6 \pm 65.6) \times E-7$
11	$(-1.0 \pm 0.8) \times E-5$	$(-8 \pm 4) \times E-6$
12	$(3.0 \pm 72.5) \times E-7$	$(1.8 \pm 0.8) \times E-5$
13	$(-5.5 \pm 10.9) \times E-6$	$(1.3 \pm 0.6) \times E-5$
14	$(-7.7 \pm 0.8) \times E-5$	$(-2.8 \pm 75.5) \times E-7$
15	$(-2.7 \pm 0.7) \times E-5$	$(6 \pm 9) \times E-6$

