



BQF-044

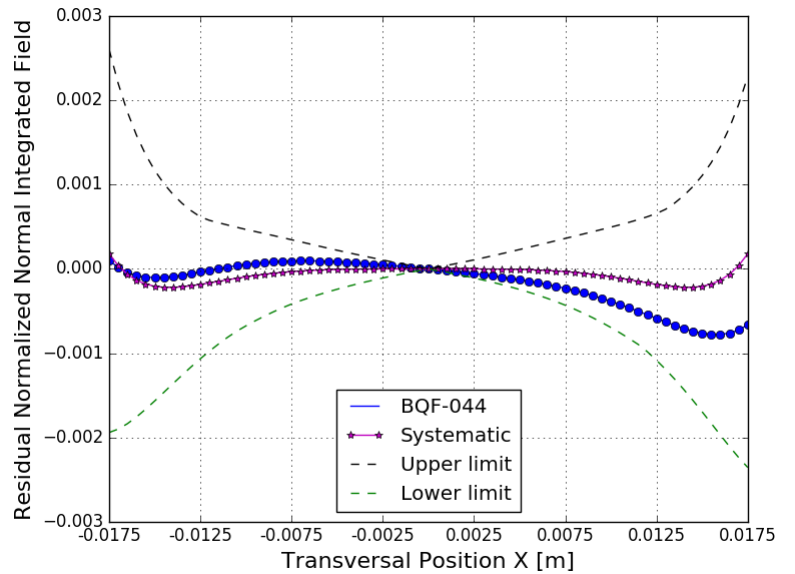
BOOSTER MAGNET REPORT

Results

Date	15/04/2016
Hour	13:58:41
Temperature [°C]	21.3
Number of Measurements	17
Main Coil Current [A]	(130.0010 ± 0.0003)
Trim Coil Current [A]	--
Integrated Gradient [T]	(-4.83223 ± 0.00002)
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(33.15 ± 0.07)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-26.93 ± 0.09)
Roll [mrad] - ($< \pm 0.8$)	$(-4.69 \pm 0.08) \times E-1$

Electric Parameters

Inductance [mH]	8.340
Voltage [V]	0.488
Resistance [$\text{m}\Omega$]	48.80
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)	$(1.894 \pm 0.004) \times E-3$	$(-1.539 \pm 0.005) \times E-3$
2 (quadrupole)	(1.000000 ± 0.000004)	$(-9.38 \pm 0.05) \times E-4$
3 (sextupole)	$(-3.70 \pm 0.06) \times E-4$	$(-1.17 \pm 0.08) \times E-4$
4	$(-1.67 \pm 0.07) \times E-4$	$(1.73 \pm 0.08) \times E-4$
5	$(-5.8 \pm 0.7) \times E-5$	$(-5.0 \pm 0.6) \times E-5$
6	$(-1.154 \pm 0.008) \times E-3$	$(-1.3 \pm 0.6) \times E-5$
7	$(5.2 \pm 0.5) \times E-5$	$(-1.9 \pm 0.7) \times E-5$
8	$(-5 \pm 7) \times E-6$	$(-4.0 \pm 0.7) \times E-5$
9	$(-9.0 \pm 89.1) \times E-7$	$(1.4 \pm 0.8) \times E-5$
10	$(1.12 \pm 0.01) \times E-3$	$(-1.6 \pm 0.7) \times E-5$
11	$(1.3 \pm 1.0) \times E-5$	$(-2.2 \pm 1.0) \times E-5$
12	$(-4.1 \pm 10.2) \times E-6$	$(2.8 \pm 0.8) \times E-5$
13	$(-1 \pm 1) \times E-5$	$(1.5 \pm 0.8) \times E-5$
14	$(-7.3 \pm 0.7) \times E-5$	$(-1.3 \pm 0.7) \times E-5$
15	$(-7 \pm 9) \times E-6$	$(-1.9 \pm 0.8) \times E-5$

