



BQF-045

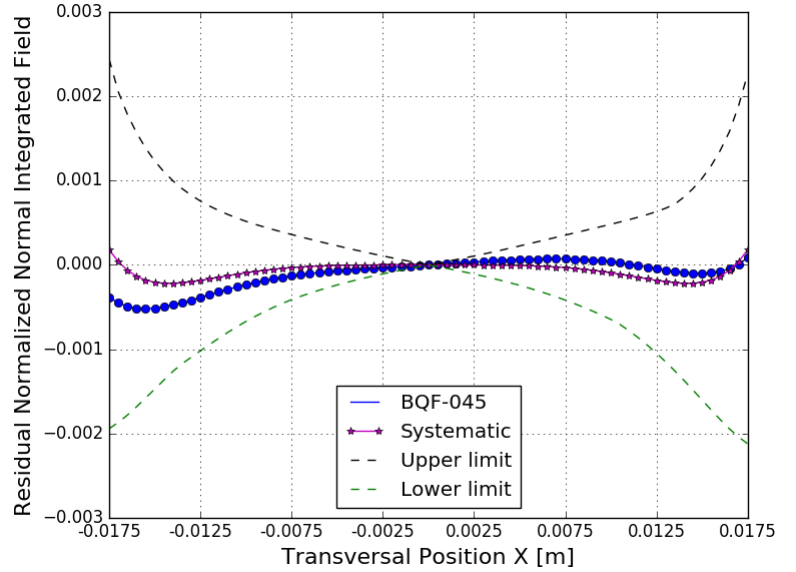
BOOSTER MAGNET REPORT

Results

Date	15/04/2016
Hour	15:34:32
Temperature [°C]	21.4
Number of Measurements	17
Main Coil Current [A]	(129.9999 ± 0.0004)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	(-4.83333 ± 0.00001)
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(27.61 ± 0.08)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-16.43 ± 0.06)
Roll [mrad] - ($< \pm 0.8$)	$(-3.35 \pm 0.03) \times E-1$

Electric Parameters

Inductance [mH]	8.285
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)	$(1.578 \pm 0.005) \times E-3$	$(-9.39 \pm 0.04) \times E-4$
2 (quadrupole)	(1.000000 ± 0.000003)	$(-6.70 \pm 0.02) \times E-4$
3 (sextupole)	$(2.34 \pm 0.03) \times E-4$	$(-9.04 \pm 0.02) \times E-4$
4	$(4.8 \pm 0.3) \times E-5$	$(1.33 \pm 0.05) \times E-4$
5	$(4 \pm 3) \times E-6$	$(7.3 \pm 0.4) \times E-5$
6	$(-1.186 \pm 0.003) \times E-3$	$(-1.0 \pm 0.3) \times E-5$
7	$(2.6 \pm 0.4) \times E-5$	$(1 \pm 5) \times E-6$
8	$(-2.3 \pm 0.2) \times E-5$	$(-2.8 \pm 0.4) \times E-5$
9	$(-2.8 \pm 0.3) \times E-5$	$(-6 \pm 4) \times E-6$
10	$(1.094 \pm 0.002) \times E-3$	$(-2.4 \pm 0.5) \times E-5$
11	$(1.4 \pm 0.4) \times E-5$	$(-2.7 \pm 0.4) \times E-5$
12	$(9 \pm 4) \times E-6$	$(2.5 \pm 0.3) \times E-5$
13	$(-1.8 \pm 0.4) \times E-5$	$(1.4 \pm 0.6) \times E-5$
14	$(-9.3 \pm 0.7) \times E-5$	$(-2.8 \pm 0.6) \times E-5$
15	$(3 \pm 3) \times E-6$	$(-1.1 \pm 0.4) \times E-5$

