



BQF-010

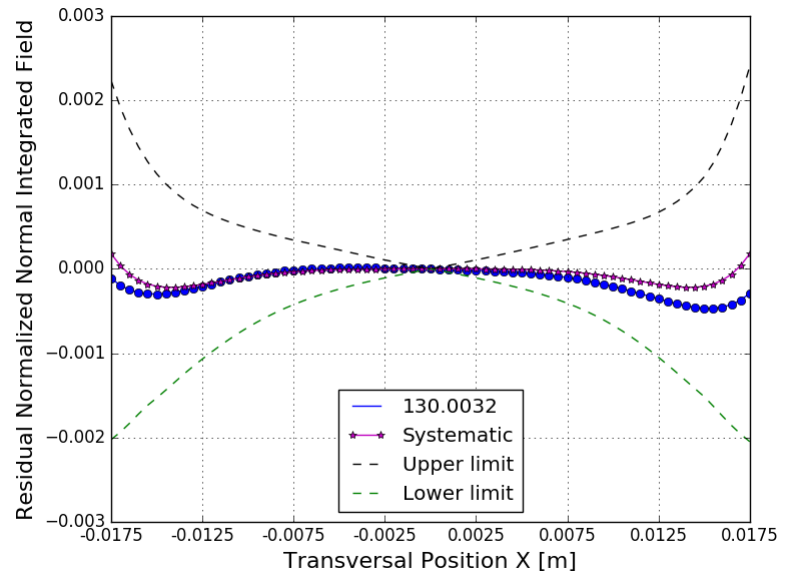
BOOSTER MAGNET REPORT

Results

Date	04/04/2016
Hour	11:27:14
Temperature [°C]	21.2
Number of Measurements	17
Main Coil Current [A]	(130.0032 ± 0.0004)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	(-4.81711 ± 0.00002)
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(128.81 ± 0.07)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(76.64 ± 0.05)
Roll [mrad] - ($< \pm 0.8$)	$(-2.53 \pm 0.03) \times E-1$

Electric Parameters

Inductance [mH]	8.238
Voltage [V]	0.487
Resistance [$\text{m}\Omega$]	48.70
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)	$(7.361 \pm 0.004) \times E-3$	$(4.379 \pm 0.003) \times E-3$
2 (quadrupole)	(1.000000 ± 0.000003)	$(-5.05 \pm 0.02) \times E-4$
3 (sextupole)	$(-9.7 \pm 0.2) \times E-5$	$(-9.49 \pm 0.04) \times E-4$
4	$(-1.16 \pm 0.03) \times E-4$	$(1.02 \pm 0.03) \times E-4$
5	$(-4.2 \pm 0.3) \times E-5$	$(1.8 \pm 0.4) \times E-5$
6	$(-1.141 \pm 0.003) \times E-3$	$(-6.2 \pm 0.3) \times E-5$
7	$(2.7 \pm 0.3) \times E-5$	$(-1.6 \pm 0.3) \times E-5$
8	$(1 \pm 4) \times E-6$	$(-3.9 \pm 0.4) \times E-5$
9	$(5.6 \pm 0.4) \times E-5$	$(6.4 \pm 0.3) \times E-5$
10	$(1.140 \pm 0.004) \times E-3$	$(1.9 \pm 0.3) \times E-5$
11	$(-2.1 \pm 0.5) \times E-5$	$(-9 \pm 4) \times E-6$
12	$(-5 \pm 5) \times E-6$	$(-1.7 \pm 0.4) \times E-5$
13	$(3 \pm 5) \times E-6$	$(-2 \pm 5) \times E-6$
14	$(-8.2 \pm 0.4) \times E-5$	$(7 \pm 4) \times E-6$
15	$(-1.6 \pm 0.4) \times E-5$	$(-5 \pm 7) \times E-6$

