



BQF-038

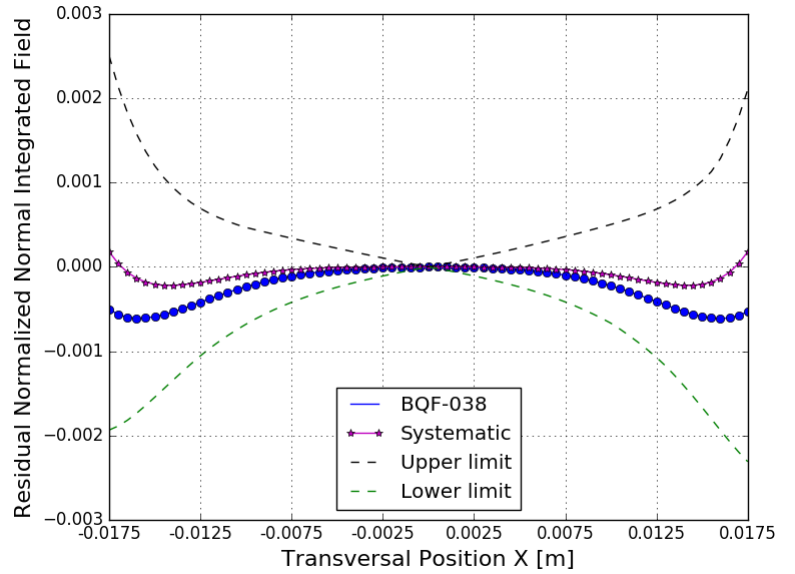
BOOSTER MAGNET REPORT

Results

Date	05/04/2016
Hour	14:04:41
Temperature [°C]	21.2
Number of Measurements	17
Main Coil Current [A]	(130.0097 ± 0.0005)
Trim Coil Current [A]	--
Integrated Gradient [T]	(-4.82289 ± 0.00001)
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(6.96 ± 0.04)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-33.88 ± 0.06)
Roll [mrad] - ($< \pm 0.8$)	$(-3.64 \pm 0.02) \times E-1$

Electric Parameters

Inductance [mH]	8.237
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)	$(3.98 \pm 0.02) \times E-4$	$(-1.936 \pm 0.003) \times E-3$
2 (quadrupole)	(1.000000 ± 0.000002)	$(-7.28 \pm 0.01) \times E-4$
3 (sextupole)	$(1.7 \pm 0.3) \times E-5$	$(-6.73 \pm 0.03) \times E-4$
4	$(-3.53 \pm 0.02) \times E-4$	$(1.16 \pm 0.04) \times E-4$
5	$(-3.3 \pm 0.2) \times E-5$	$(3.6 \pm 0.2) \times E-5$
6	$(-1.190 \pm 0.003) \times E-3$	$(-2.0 \pm 0.4) \times E-5$
7	$(2.6 \pm 0.2) \times E-5$	$(-2.0 \pm 0.3) \times E-5$
8	$(1.2 \pm 0.3) \times E-5$	$(-5.5 \pm 0.3) \times E-5$
9	$(-2 \pm 3) \times E-6$	$(1.7 \pm 0.3) \times E-5$
10	$(1.106 \pm 0.004) \times E-3$	$(8 \pm 4) \times E-6$
11	$(-1.5 \pm 0.4) \times E-5$	$(-2.9 \pm 0.4) \times E-5$
12	$(-4 \pm 4) \times E-6$	$(-1.3 \pm 0.3) \times E-5$
13	$(1.6 \pm 0.6) \times E-5$	$(1.4 \pm 0.4) \times E-5$
14	$(-8.8 \pm 0.5) \times E-5$	$(3 \pm 5) \times E-6$
15	$(-2.0 \pm 0.4) \times E-5$	$(-3.2 \pm 50.9) \times E-7$

