



BQF-028

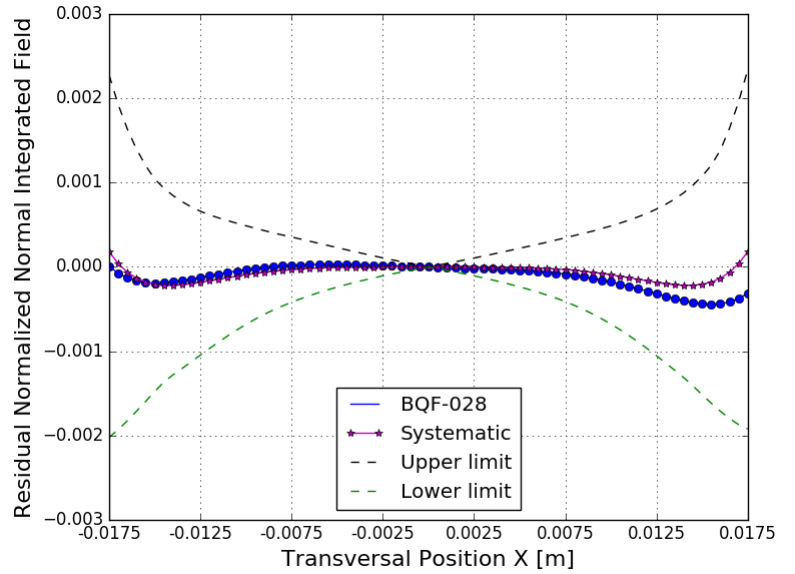
BOOSTER MAGNET REPORT

Results

Date	12/04/2016
Hour	08:38:15
Temperature [°C]	21.4
Number of Measurements	17
Main Coil Current [A]	(130.0257 ± 0.0003)
Trim Coil Current [A]	--
Integrated Gradient [T]	(-4.82407 ± 0.00001)
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(17.87 ± 0.05)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-31.42 ± 0.08)
Roll [mrad] - ($< \pm 0.8$)	$(-3.84 \pm 0.05) \times E-1$

Electric Parameters

Inductance [mH]	8.339
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)	$(1.021 \pm 0.003) \times E-3$	$(-1.795 \pm 0.005) \times E-3$
2 (quadrupole)	(1.000000 ± 0.000002)	$(-7.68 \pm 0.03) \times E-4$
3 (sextupole)	$(-1.12 \pm 0.03) \times E-4$	$(-5.15 \pm 0.04) \times E-4$
4	$(2.1 \pm 0.4) \times E-5$	$(1.03 \pm 0.03) \times E-4$
5	$(-5.7 \pm 0.3) \times E-5$	$(-8 \pm 5) \times E-6$
6	$(-1.160 \pm 0.003) \times E-3$	$(-3.2 \pm 0.2) \times E-5$
7	$(3.5 \pm 0.3) \times E-5$	$(7 \pm 4) \times E-6$
8	$(-2.8 \pm 0.3) \times E-5$	$(-3.3 \pm 0.2) \times E-5$
9	$(-2.1 \pm 0.4) \times E-5$	$(5 \pm 3) \times E-6$
10	$(1.097 \pm 0.003) \times E-3$	$(-1.9 \pm 0.5) \times E-5$
11	$(1.1 \pm 0.4) \times E-5$	$(-2.2 \pm 0.3) \times E-5$
12	$(-6 \pm 3) \times E-6$	$(2.7 \pm 0.3) \times E-5$
13	$(-2.1 \pm 0.6) \times E-5$	$(6.71 \pm 564.79) \times E-8$
14	$(-7.7 \pm 0.3) \times E-5$	$(-2.3 \pm 0.6) \times E-5$
15	$(5 \pm 3) \times E-6$	$(6 \pm 4) \times E-6$

