



BQF-058

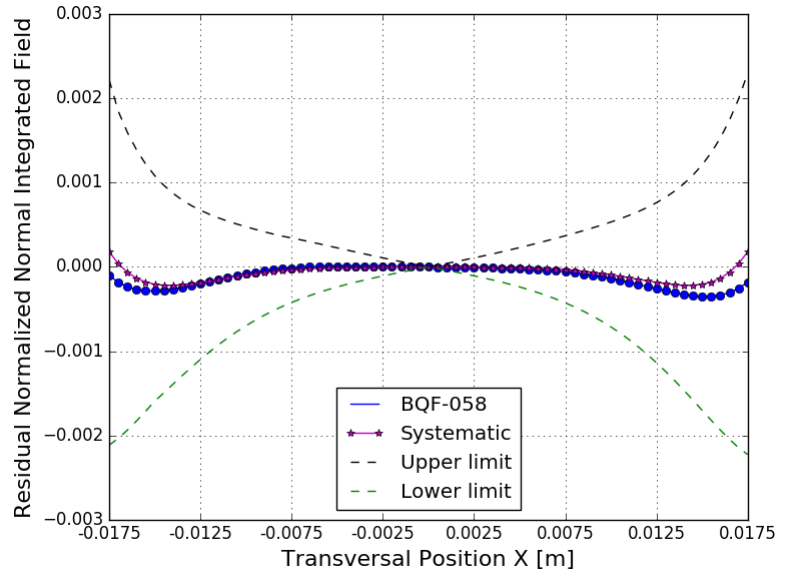
BOOSTER MAGNET REPORT

Results

Date	14/04/2016
Hour	14:22:15
Temperature [°C]	21.2
Number of Measurements	17
Main Coil Current [A]	(130.0073 ± 0.0005)
Trim Coil Current [A]	--
Integrated Gradient [T]	(-4.83147 ± 0.00001)
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(-9.32 ± 0.04)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-43.23 ± 0.07)
Roll [mrad] - ($< \pm 0.8$)	$(-3.90 \pm 0.02) \times E-1$

Electric Parameters

Inductance [mH]	8.268
Voltage [V]	0.485
Resistance [$\text{m}\Omega$]	48.50
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)	$(-5.33 \pm 0.02) \times E-4$	$(-2.470 \pm 0.004) \times E-3$
2 (quadrupole)	(1.000000 ± 0.000002)	$(-7.79 \pm 0.02) \times E-4$
3 (sextupole)	$(-5.4 \pm 0.2) \times E-5$	$(-4.27 \pm 0.05) \times E-4$
4	$(1.6 \pm 0.3) \times E-5$	$(9.4 \pm 0.4) \times E-5$
5	$(2 \pm 3) \times E-6$	$(4.1 \pm 0.3) \times E-5$
6	$(-1.190 \pm 0.004) \times E-3$	$(2 \pm 5) \times E-6$
7	$(3.3 \pm 0.4) \times E-5$	$(-1.6 \pm 0.5) \times E-5$
8	$(-8 \pm 3) \times E-6$	$(-4.2 \pm 0.3) \times E-5$
9	$(-4 \pm 4) \times E-6$	$(6 \pm 4) \times E-6$
10	$(1.128 \pm 0.005) \times E-3$	$(1.0 \pm 0.4) \times E-5$
11	$(-4.3 \pm 42.9) \times E-7$	$(-1.5 \pm 0.5) \times E-5$
12	$(3 \pm 4) \times E-6$	$(-8 \pm 3) \times E-6$
13	$(7 \pm 3) \times E-6$	$(1.1 \pm 0.5) \times E-5$
14	$(-9.0 \pm 0.8) \times E-5$	$(8 \pm 5) \times E-6$
15	$(-2.4 \pm 0.5) \times E-5$	$(6 \pm 8) \times E-6$

