



BQF-043

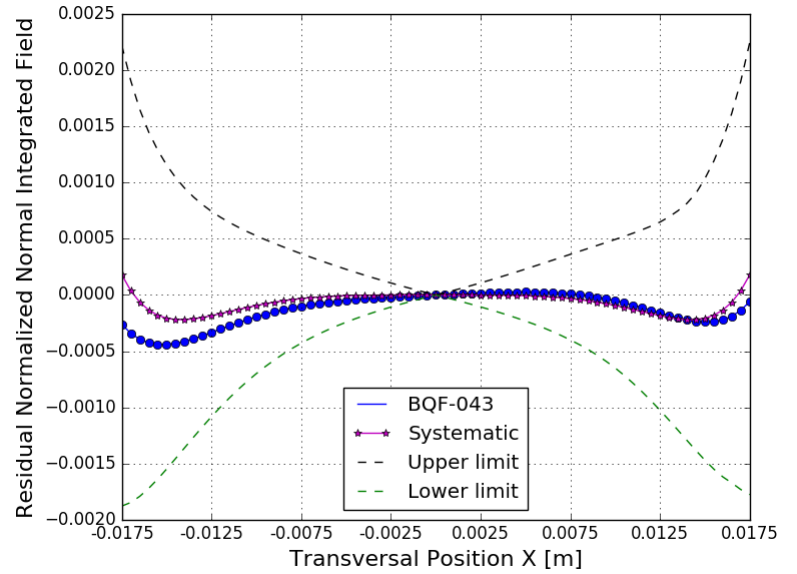
BOOSTER MAGNET REPORT

Results

Date	15/04/2016
Hour	12:03:44
Temperature [°C]	21.5
Number of Measurements	17
Main Coil Current [A]	(130.0011 ± 0.0005)
Trim Coil Current [A]	--
Integrated Gradient [T]	(-4.82956 ± 0.00001)
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(3.14 ± 0.06)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-5.58 ± 0.05)
Roll [mrad] - ($< \pm 0.8$)	$(-3.49 \pm 0.03) \times E-1$

Electric Parameters

Inductance [mH]	8.330
Voltage [V]	0.482
Resistance [$\text{m}\Omega$]	48.20
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)	$(1.80 \pm 0.04) \times E-4$	$(-3.19 \pm 0.03) \times E-4$
2 (quadrupole)	(1.000000 ± 0.000002)	$(-6.98 \pm 0.02) \times E-4$
3 (sextupole)	$(1.31 \pm 0.04) \times E-4$	$(-9.86 \pm 0.03) \times E-4$
4	$(-3.2 \pm 0.3) \times E-5$	$(1.90 \pm 0.03) \times E-4$
5	$(-2.4 \pm 0.2) \times E-5$	$(4.6 \pm 0.3) \times E-5$
6	$(-1.163 \pm 0.002) \times E-3$	$(-1.1 \pm 0.3) \times E-5$
7	$(2.4 \pm 0.3) \times E-5$	$(1.3 \pm 0.4) \times E-5$
8	$(-10 \pm 3) \times E-6$	$(-3.5 \pm 0.3) \times E-5$
9	$(-2.7 \pm 0.4) \times E-5$	$(1.0 \pm 0.5) \times E-5$
10	$(1.119 \pm 0.004) \times E-3$	$(-6 \pm 4) \times E-6$
11	$(1.0 \pm 0.4) \times E-5$	$(-1.9 \pm 0.3) \times E-5$
12	$(1.0 \pm 0.4) \times E-5$	$(1.1 \pm 0.6) \times E-5$
13	$(-1.1 \pm 0.6) \times E-5$	$(2.9 \pm 0.6) \times E-5$
14	$(-8.5 \pm 0.4) \times E-5$	$(-8 \pm 5) \times E-6$
15	$(-3 \pm 4) \times E-6$	$(-1.3 \pm 0.2) \times E-5$

