



BQF-016

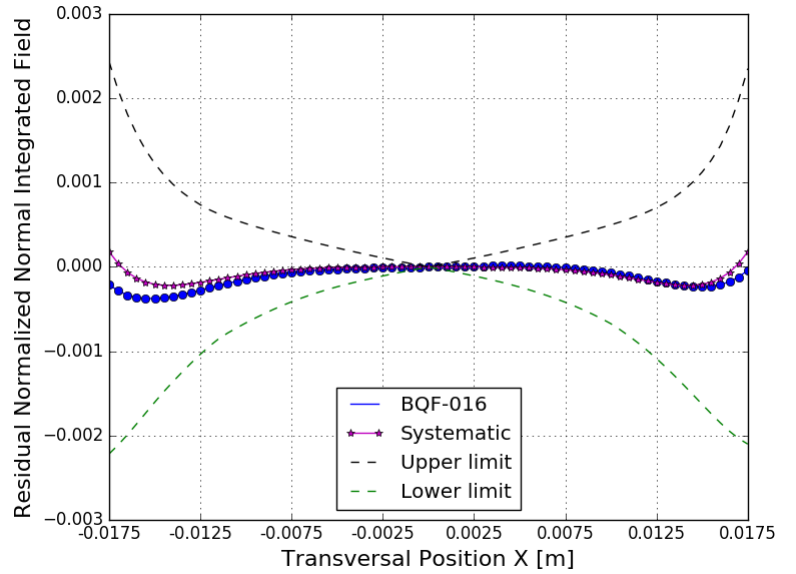
BOOSTER MAGNET REPORT

Results

Date	30/03/2016
Hour	15:17:31
Temperature [°C]	21.2
Number of Measurements	17
Main Coil Current [A]	(130.0188 ± 0.0005)
Trim Coil Current [A]	--
Integrated Gradient [T]	(-4.82306 ± 0.00001)
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(-10.07 ± 0.05)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-44.40 ± 0.08)
Roll [mrad] - ($< \pm 0.8$)	$(-3.37 \pm 0.03) \times E-1$

Electric Parameters

Inductance [mH]	8.266
Voltage [V]	0.483
Resistance [$\text{m}\Omega$]	48.30
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)	$(-5.76 \pm 0.03) \times E-4$	$(-2.537 \pm 0.004) \times E-3$
2 (quadrupole)	(1.000000 ± 0.000002)	$(-6.74 \pm 0.02) \times E-4$
3 (sextupole)	$(6.7 \pm 0.3) \times E-5$	$(-7.00 \pm 0.03) \times E-4$
4	$(2 \pm 3) \times E-6$	$(2.2 \pm 0.4) \times E-5$
5	$(-10 \pm 3) \times E-6$	$(4.7 \pm 0.4) \times E-5$
6	$(-1.137 \pm 0.003) \times E-3$	$(-2.0 \pm 0.3) \times E-5$
7	$(5.7 \pm 0.5) \times E-5$	$(-5 \pm 4) \times E-6$
8	$(-1 \pm 1) \times E-5$	$(-4.7 \pm 0.6) \times E-5$
9	$(-3.3 \pm 0.7) \times E-5$	$(-1.6 \pm 0.4) \times E-5$
10	$(1.12 \pm 0.01) \times E-3$	$(-2.6 \pm 0.7) \times E-5$
11	$(2.8 \pm 0.8) \times E-5$	$(-2.5 \pm 0.8) \times E-5$
12	$(10 \pm 6) \times E-6$	$(4 \pm 6) \times E-6$
13	$(-2.4 \pm 0.3) \times E-5$	$(1.9 \pm 0.6) \times E-5$
14	$(-1.08 \pm 0.06) \times E-4$	$(-2.1 \pm 0.6) \times E-5$
15	$(5.7 \pm 76.9) \times E-7$	$(-2.7 \pm 0.4) \times E-5$

