



BQF-054

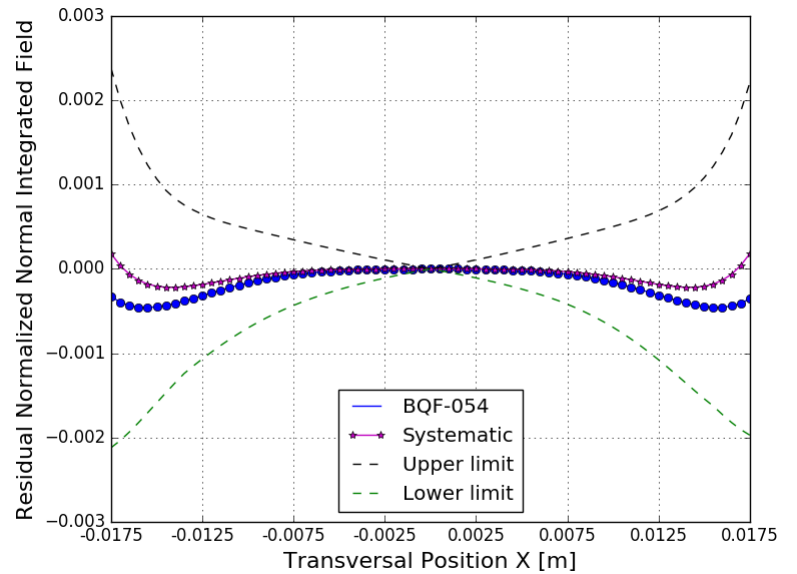
BOOSTER MAGNET REPORT

Results

Date	06/04/2016
Hour	15:40:05
Temperature [°C]	21.0
Number of Measurements	17
Main Coil Current [A]	(130.0136 ± 0.0004)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	(-4.82497 ± 0.00001)
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(1.50 ± 0.04)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-30.84 ± 0.06)
Roll [mrad] - ($< \pm 0.8$)	$(-4.57 \pm 0.06) \times E-1$

Electric Parameters

Inductance [mH]	8.247
Voltage [V]	0.477
Resistance [$\text{m}\Omega$]	47.70
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)	$(8.6 \pm 0.2) \times E-5$	$(-1.763 \pm 0.004) \times E-3$
2 (quadrupole)	(1.000000 ± 0.000003)	$(-9.14 \pm 0.04) \times E-4$
3 (sextupole)	$(8 \pm 3) \times E-6$	$(-4.58 \pm 0.03) \times E-4$
4	$(-1.48 \pm 0.02) \times E-4$	$(9.4 \pm 0.4) \times E-5$
5	$(-2.4 \pm 0.3) \times E-5$	$(-1.8 \pm 0.5) \times E-5$
6	$(-1.193 \pm 0.003) \times E-3$	$(-9 \pm 7) \times E-6$
7	$(4.4 \pm 0.3) \times E-5$	$(-6 \pm 5) \times E-6$
8	$(-5 \pm 3) \times E-6$	$(-2.3 \pm 0.5) \times E-5$
9	$(-2.6 \pm 0.4) \times E-5$	$(1.4 \pm 0.4) \times E-5$
10	$(1.106 \pm 0.003) \times E-3$	$(-1.3 \pm 0.5) \times E-5$
11	$(1.4 \pm 0.4) \times E-5$	$(-6 \pm 4) \times E-6$
12	$(-4.8 \pm 41.9) \times E-7$	$(7 \pm 5) \times E-6$
13	$(-1.8 \pm 0.4) \times E-5$	$(3.4 \pm 0.7) \times E-5$
14	$(-1.02 \pm 0.07) \times E-4$	$(-1.2 \pm 0.4) \times E-5$
15	$(-1.1 \pm 0.4) \times E-5$	$(-2.1 \pm 0.4) \times E-5$

