



# BQF-038

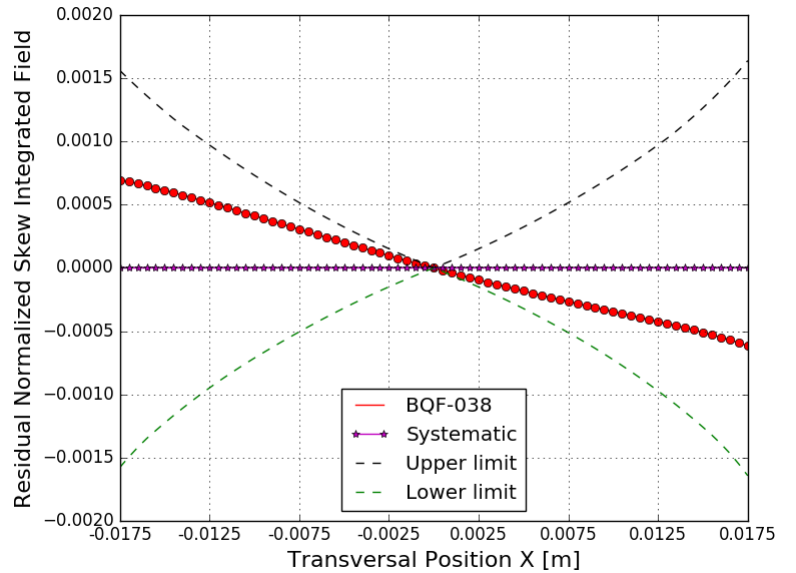
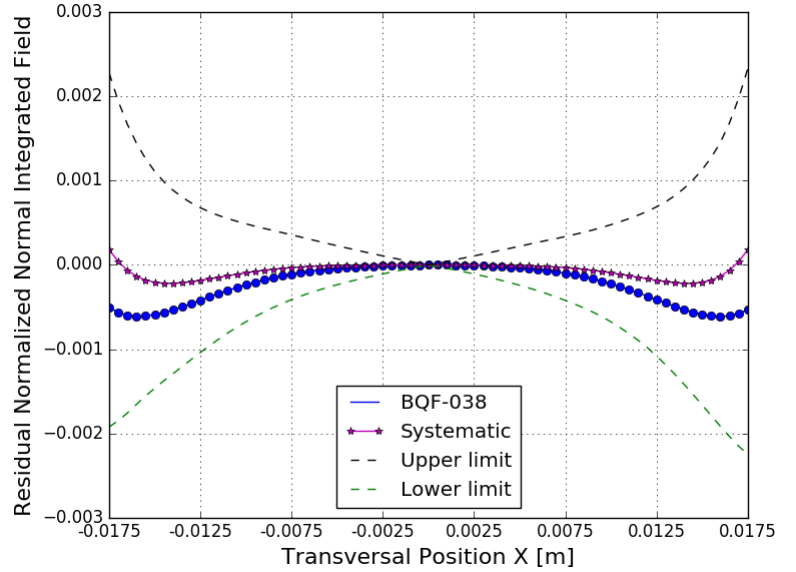
## BOOSTER MAGNET REPORT

### Results

Date	05/04/2016
Hour	14:04:41
Temperature [°C]	21.2
Number of Measurements	17
Main Coil Current [A]	$(130.0097 \pm 0.0005)$
Trim Coil Current [A]	$(0 \pm 0)$
Integrated Gradient [T]	$(-4.82289 \pm 0.00001)$
Magnet Center Offset X [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(6.96 \pm 0.04)$
Magnet Center Offset Y [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(-33.88 \pm 0.06)$
Roll [mrad] - ( $< \pm 0.8$ )	$(-3.64 \pm 0.02) \times E-1$

### Electric Parameters

Inductance [mH]	8.237
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)	$(3.98 \pm 0.02) \times E-4$	$(-1.936 \pm 0.003) \times E-3$
2 (quadrupole)	$(1.000000 \pm 0.000002)$	$(-7.28 \pm 0.01) \times E-4$
3 (sextupole)	$(1.7 \pm 0.3) \times E-5$	$(-6.73 \pm 0.03) \times E-4$
4	$(-3.53 \pm 0.02) \times E-4$	$(1.16 \pm 0.04) \times E-4$
5	$(-3.3 \pm 0.2) \times E-5$	$(3.6 \pm 0.2) \times E-5$
6	$(-1.190 \pm 0.003) \times E-3$	$(-2.0 \pm 0.4) \times E-5$
7	$(2.6 \pm 0.2) \times E-5$	$(-2.0 \pm 0.3) \times E-5$
8	$(1.2 \pm 0.3) \times E-5$	$(-5.5 \pm 0.3) \times E-5$
9	$(-2 \pm 3) \times E-6$	$(1.7 \pm 0.3) \times E-5$
10	$(1.106 \pm 0.004) \times E-3$	$(8 \pm 4) \times E-6$
11	$(-1.5 \pm 0.4) \times E-5$	$(-2.9 \pm 0.4) \times E-5$
12	$(-4 \pm 4) \times E-6$	$(-1.3 \pm 0.3) \times E-5$
13	$(1.6 \pm 0.6) \times E-5$	$(1.4 \pm 0.4) \times E-5$
14	$(-8.8 \pm 0.5) \times E-5$	$(3 \pm 5) \times E-6$
15	$(-2.0 \pm 0.4) \times E-5$	$(-3.2 \pm 50.9) \times E-7$