



# BQF-055

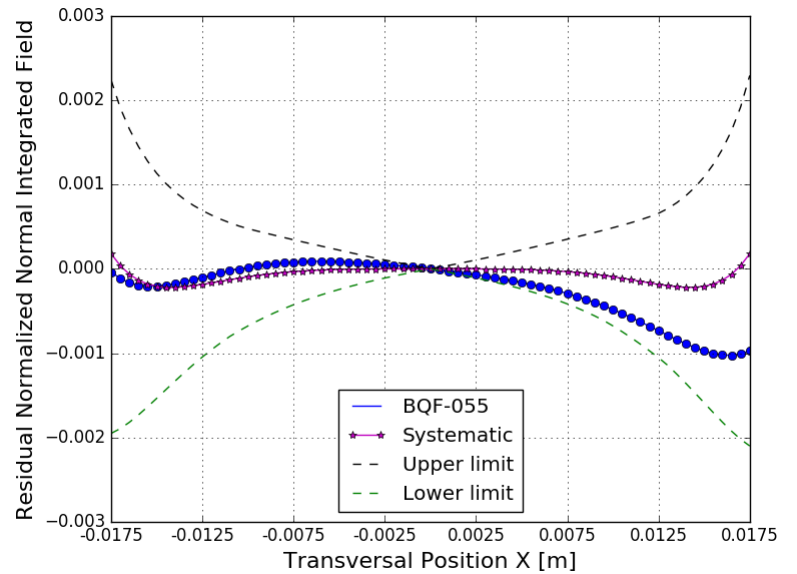
## BOOSTER MAGNET REPORT

### Results

Date	15/04/2016
Hour	10:31:30
Temperature [°C]	21.6
Number of Measurements	17
Main Coil Current [A]	$(130.0065 \pm 0.0004)$
Trim Coil Current [A]	--
Integrated Gradient [T]	$(-4.82497 \pm 0.00001)$
Magnet Center Offset X [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(-14.45 \pm 0.05)$
Magnet Center Offset Y [ $\mu\text{m}$ ] - ( $< \pm 160.0$ )	$(-13.36 \pm 0.06)$
Roll [mrad] - ( $< \pm 0.8$ )	$(-5.33 \pm 0.03) \times E-1$

### Electric Parameters

Inductance [mH]	8.327
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)	$(-8.26 \pm 0.03) \times E-4$	$(-7.63 \pm 0.04) \times E-4$
2 (quadrupole)	$(1.000000 \pm 0.000003)$	$(-1.067 \pm 0.002) \times E-3$
3 (sextupole)	$(-4.26 \pm 0.04) \times E-4$	$(-6.89 \pm 0.03) \times E-4$
4	$(-3.63 \pm 0.03) \times E-4$	$(1.27 \pm 0.06) \times E-4$
5	$(-5.6 \pm 0.4) \times E-5$	$(-2.3 \pm 0.5) \times E-5$
6	$(-1.175 \pm 0.003) \times E-3$	$(5.1 \pm 37.0) \times E-7$
7	$(6.5 \pm 0.4) \times E-5$	$(6 \pm 5) \times E-6$
8	$(-3 \pm 5) \times E-6$	$(-3.6 \pm 0.4) \times E-5$
9	$(-3.9 \pm 0.3) \times E-5$	$(4 \pm 7) \times E-6$
10	$(1.124 \pm 0.004) \times E-3$	$(-1.8 \pm 0.5) \times E-5$
11	$(4 \pm 4) \times E-6$	$(-1.6 \pm 0.4) \times E-5$
12	$(7 \pm 4) \times E-6$	$(1.0 \pm 0.4) \times E-5$
13	$(-8 \pm 5) \times E-6$	$(1.9 \pm 0.3) \times E-5$
14	$(-9.4 \pm 0.2) \times E-5$	$(-1.7 \pm 0.7) \times E-5$
15	$(-7 \pm 3) \times E-6$	$(-1 \pm 1) \times E-5$

