



# BQF-036

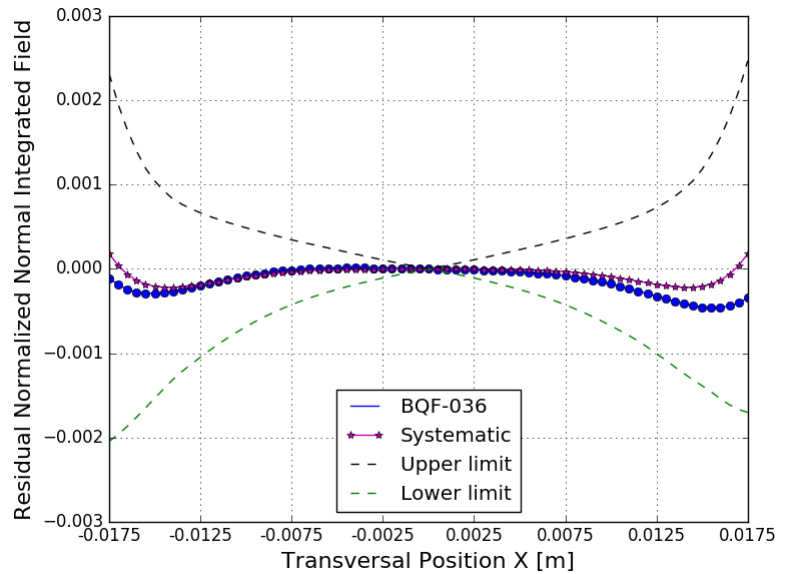
## BOOSTER MAGNET REPORT

### Results

Date	06/04/2016
Hour	08:39:43
Temperature [°C]	21.4
Number of Measurements	17
Main Coil Current [A]	(130.0248 ± 0.0003)
Trim Coil Current [A]	--
Integrated Gradient [T]	(-4.82973 ± 0.00002)
Magnet Center Offset X [μm] - (< ±160.0)	(6.3 ± 0.2)
Magnet Center Offset Y [μm] - (< ±160.0)	(-24.17 ± 0.06)
Roll [mrad] - (< ±0.8)	(-4.0 ± 0.1) × E-1

### Electric Parameters

Inductance [mH]	8.226
Voltage [V]	0.484
Resistance [mΩ]	48.40
Main Coil Number of Turns	26.25



n	Normalized Normal Multipoles x=17.5 mm [T.m <sup>(2-n)</sup> ]	Normalized Skew Multipoles x=17.5 mm [T.m <sup>(2-n)</sup> ]
1 (dipole)	(3.6 ± 0.1) × E-4	(-1.381 ± 0.004) × E-3
2 (quadrupole)	(1.000000 ± 0.000005)	(-7.97 ± 0.09) × E-4
3 (sextupole)	(-7 ± 1) × E-5	(-7.43 ± 0.07) × E-4
4	(-5 ± 1) × E-5	(8 ± 2) × E-5
5	(-5 ± 1) × E-5	(4.5 ± 0.7) × E-5
6	(-1.21 ± 0.01) × E-3	(-2 ± 1) × E-5
7	(6.4 ± 0.9) × E-5	(1 ± 1) × E-5
8	(2 ± 2) × E-5	(-2.7 ± 1.0) × E-5
9	(-4 ± 1) × E-5	(2 ± 1) × E-5
10	(1.08 ± 0.01) × E-3	(-3.4 ± 0.9) × E-5
11	(9.1 ± 11.8) × E-6	(-4 ± 1) × E-5
12	(9.2 ± 11.6) × E-6	(3.5 ± 0.9) × E-5
13	(-2 ± 1) × E-5	(3 ± 1) × E-5
14	(-8.9 ± 0.6) × E-5	(-3.7 ± 0.8) × E-5
15	(-1.0 ± 0.9) × E-5	(-2.5 ± 0.9) × E-5

