



# BQF-031

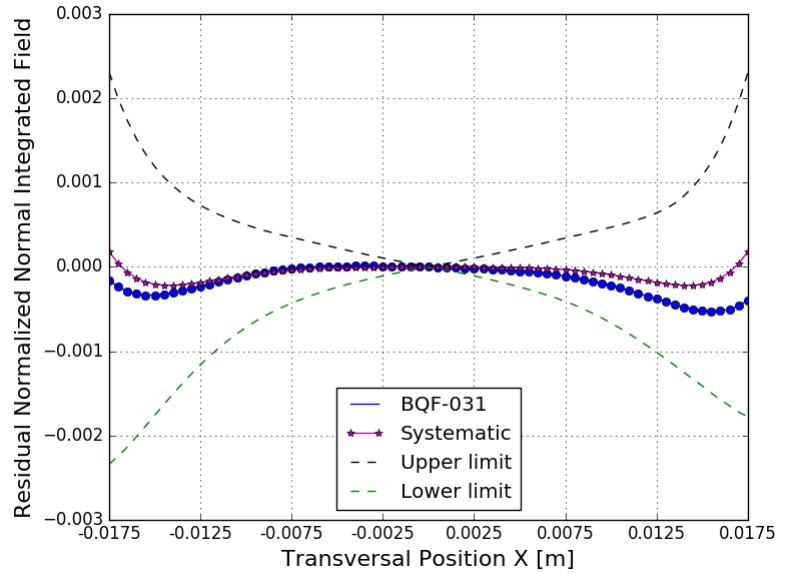
## BOOSTER MAGNET REPORT

### Results

Date	14/04/2016
Hour	12:04:46
Temperature [°C]	21.3
Number of Measurements	17
Main Coil Current [A]	(130.0044 ± 0.0004)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	(-4.82640 ± 0.00001)
Magnet Center Offset X [μm] - (< ±160.0)	(-3.94 ± 0.06)
Magnet Center Offset Y [μm] - (< ±160.0)	(-30.03 ± 0.07)
Roll [mrad] - (< ±0.8)	(-5.08 ± 0.04) × E-1

### Electric Parameters

Inductance [mH]	8.244
Voltage [V]	0.482
Resistance [mΩ]	48.20
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)	(-2.25 ± 0.03) × E-4	(-1.716 ± 0.004) × E-3
2 (quadrupole)	(1.000000 ± 0.000003)	(-1.017 ± 0.002) × E-3
3 (sextupole)	(-1.00 ± 0.02) × E-4	(-2.26 ± 0.05) × E-4
4	(-1.52 ± 0.04) × E-4	(1.60 ± 0.03) × E-4
5	(-2.3 ± 0.2) × E-5	(-1.7 ± 0.4) × E-5
6	(-1.156 ± 0.004) × E-3	(-5 ± 3) × E-6
7	(5.1 ± 0.3) × E-5	(-4 ± 5) × E-6
8	(-1.5 ± 0.5) × E-5	(-1.9 ± 0.4) × E-5
9	(-4.9 ± 0.3) × E-5	(1.5 ± 0.3) × E-5
10	(1.125 ± 0.004) × E-3	(-2.6 ± 0.4) × E-5
11	(1.7 ± 0.6) × E-5	(-10 ± 5) × E-6
12	(1 ± 6) × E-6	(2.6 ± 0.5) × E-5
13	(-2.4 ± 0.4) × E-5	(2.3 ± 0.7) × E-5
14	(-8.1 ± 0.2) × E-5	(-2.0 ± 0.7) × E-5
15	(8 ± 5) × E-6	(-10 ± 4) × E-6

