



# BQF-014

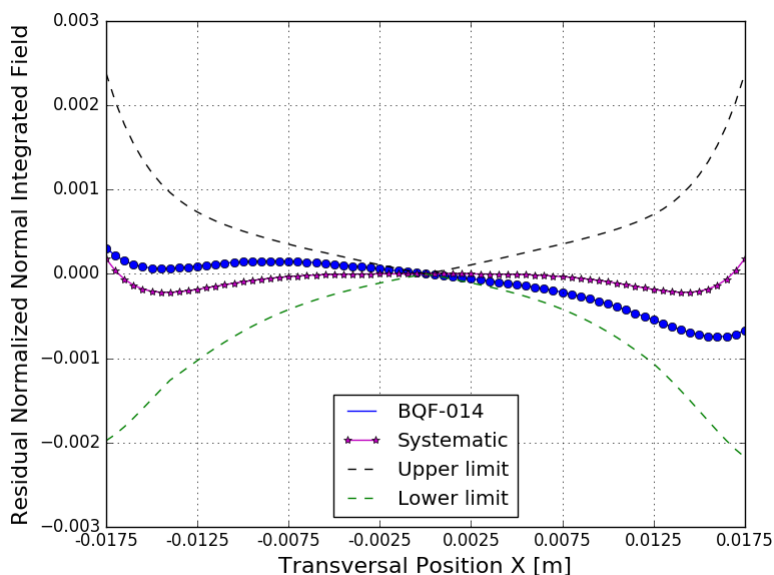
## BOOSTER MAGNET REPORT

### Results

Date	07/04/2016
Hour	10:45:49
Temperature [°C]	21.4
Number of Measurements	17
Main Coil Current [A]	(130.0035 ± 0.0005)
Trim Coil Current [A]	--
Integrated Gradient [T]	(-4.81621 ± 0.00001)
Magnet Center Offset X [μm] - (< ±160.0)	(3.70 ± 0.03)
Magnet Center Offset Y [μm] - (< ±160.0)	(-17.12 ± 0.08)
Roll [mrad] - (< ±0.8)	(-4.18 ± 0.03) × E-1

### Electric Parameters

Inductance [mH]	8.304
Voltage [V]	0.489
Resistance [mΩ]	48.90
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)	(2.12 ± 0.02) × E-4	(-9.78 ± 0.04) × E-4
2 (quadrupole)	(1.000000 ± 0.000003)	(-8.35 ± 0.02) × E-4
3 (sextupole)	(-4.14 ± 0.03) × E-4	(-7.80 ± 0.04) × E-4
4	(3.1 ± 0.2) × E-5	(7.6 ± 0.4) × E-5
5	(-9.1 ± 0.3) × E-5	(6.3 ± 0.4) × E-5
6	(-1.203 ± 0.004) × E-3	(4.53 ± 405.85) × E-8
7	(6.0 ± 0.4) × E-5	(3.9 ± 42.5) × E-7
8	(-1.8 ± 0.4) × E-5	(-2.1 ± 0.5) × E-5
9	(-2.6 ± 0.3) × E-5	(1.4 ± 0.2) × E-5
10	(1.104 ± 0.003) × E-3	(-1.3 ± 0.5) × E-5
11	(8 ± 5) × E-6	(-1.2 ± 0.6) × E-5
12	(1.7 ± 0.5) × E-5	(1.4 ± 0.4) × E-5
13	(-1.9 ± 0.4) × E-5	(3.1 ± 0.1) × E-5
14	(-1.14 ± 0.04) × E-4	(-1.2 ± 0.3) × E-5
15	(-7 ± 4) × E-6	(-1.1 ± 0.3) × E-5

