



# BQF-021

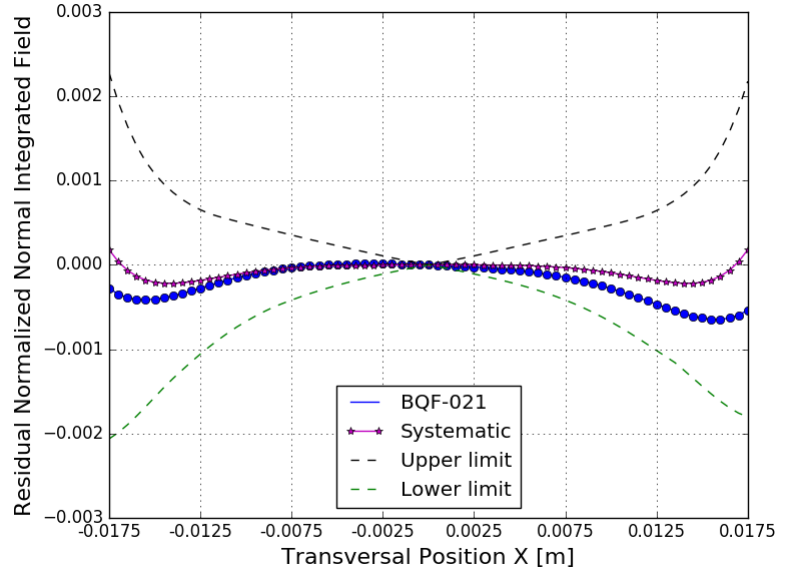
## BOOSTER MAGNET REPORT

### Results

Date	31/03/2016
Hour	08:17:29
Temperature [°C]	21.0
Number of Measurements	17
Main Coil Current [A]	(130.0206 ± 0.0004)
Trim Coil Current [A]	--
Integrated Gradient [T]	(-4.82583 ± 0.00002)
Magnet Center Offset X [μm] - (< ±160.0)	(4.28 ± 0.08)
Magnet Center Offset Y [μm] - (< ±160.0)	(-38.08 ± 0.08)
Roll [mrad] - (< ±0.8)	(-5.85 ± 0.06) × E-1

### Electric Parameters

Inductance [mH]	8.234
Voltage [V]	0.486
Resistance [mΩ]	48.60
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)	(2.45 ± 0.04) × E-4	(-2.176 ± 0.005) × E-3
2 (quadrupole)	(1.000000 ± 0.000004)	(-1.170 ± 0.004) × E-3
3 (sextupole)	(-1.33 ± 0.05) × E-4	(-1.69 ± 0.05) × E-4
4	(-2.82 ± 0.03) × E-4	(1.15 ± 0.04) × E-4
5	(-2.5 ± 0.3) × E-5	(-6.8 ± 0.5) × E-5
6	(-1.152 ± 0.003) × E-3	(3 ± 5) × E-6
7	(6.0 ± 0.3) × E-5	(1 ± 8) × E-6
8	(-7 ± 4) × E-6	(-1.9 ± 0.5) × E-5
9	(-3.7 ± 0.2) × E-5	(10 ± 5) × E-6
10	(1.127 ± 0.004) × E-3	(-2.5 ± 0.5) × E-5
11	(2.2 ± 0.5) × E-5	(-7 ± 5) × E-6
12	(-7 ± 5) × E-6	(1.3 ± 0.6) × E-5
13	(-2.1 ± 0.4) × E-5	(2.1 ± 0.5) × E-5
14	(-8.6 ± 0.5) × E-5	(-2.4 ± 0.6) × E-5
15	(5 ± 6) × E-6	(-1.2 ± 0.4) × E-5

