



# BQF-028

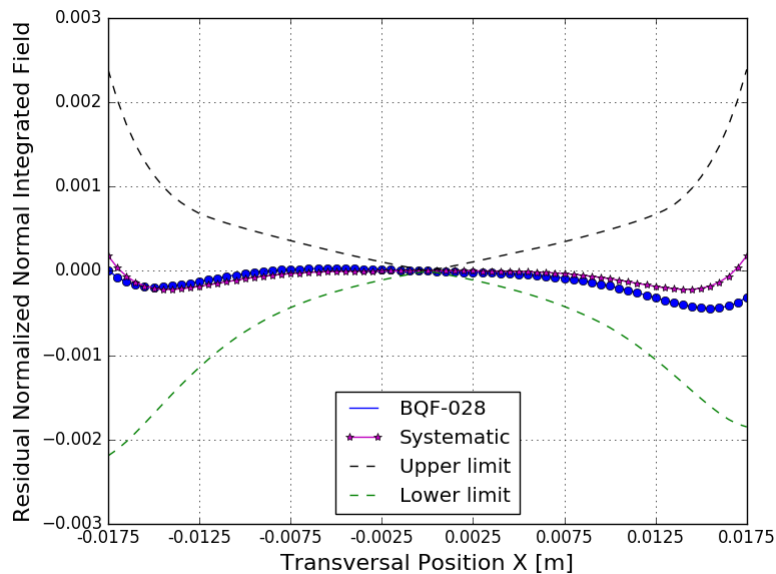
## BOOSTER MAGNET REPORT

### Results

Date	12/04/2016
Hour	08:38:15
Temperature [°C]	21.4
Number of Measurements	17
Main Coil Current [A]	(130.0257 ± 0.0003)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	(-4.82407 ± 0.00001)
Magnet Center Offset X [μm] - (< ±160.0)	(17.87 ± 0.05)
Magnet Center Offset Y [μm] - (< ±160.0)	(-31.42 ± 0.08)
Roll [mrad] - (< ±0.8)	(-3.84 ± 0.05) × E-1

### Electric Parameters

Inductance [mH]	8.339
Voltage [V]	0.481
Resistance [mΩ]	48.10
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)	(1.021 ± 0.003) × E-3	(-1.795 ± 0.005) × E-3
2 (quadrupole)	(1.000000 ± 0.000002)	(-7.68 ± 0.03) × E-4
3 (sextupole)	(-1.12 ± 0.03) × E-4	(-5.15 ± 0.04) × E-4
4	(2.1 ± 0.4) × E-5	(1.03 ± 0.03) × E-4
5	(-5.7 ± 0.3) × E-5	(-8 ± 5) × E-6
6	(-1.160 ± 0.003) × E-3	(-3.2 ± 0.2) × E-5
7	(3.5 ± 0.3) × E-5	(7 ± 4) × E-6
8	(-2.8 ± 0.3) × E-5	(-3.3 ± 0.2) × E-5
9	(-2.1 ± 0.4) × E-5	(5 ± 3) × E-6
10	(1.097 ± 0.003) × E-3	(-1.9 ± 0.5) × E-5
11	(1.1 ± 0.4) × E-5	(-2.2 ± 0.3) × E-5
12	(-6 ± 3) × E-6	(2.7 ± 0.3) × E-5
13	(-2.1 ± 0.6) × E-5	(6.71 ± 564.79) × E-8
14	(-7.7 ± 0.3) × E-5	(-2.3 ± 0.6) × E-5
15	(5 ± 3) × E-6	(6 ± 4) × E-6

