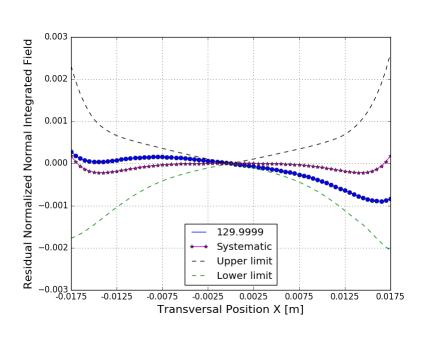# BQF-046

BOOSTER MAGNET REPORT

Results	
Date	15/04/2016
Hour	17:03:06
Temperature [°C]	21.3
Number of Measurements	17
Main Coil Current [A]	(129.9999 ± 0.0005)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	(-4.82569 ± 0.00002)
Magnet Center Offset X [μm] - (< ±160.0)	(-17.51 ± 0.04)
Magnet Center Offset Y [μm] - (< ±160.0)	(-32.64 ± 0.07)
Roll [mrad] - (< ±0.8)	(-4.23 ± 0.05) x E-1
Electric Parameters	
Indutance [mH]	8.334
Voltage [V]	0.482
Resistance [mΩ]	3.708
Main Coil Number of Turns	26.25

n	Normalized Normal Multipoles x=17.5 mm [T.m$^{(2-n)}$]	Normalized Skew Multipoles x=17.5 mm [T.m$^{(2-n)}$]
1 (dipole)	(-1.001 ± 0.003) x E-3	(-1.865 ± 0.004) x E-3
2 (quadrupole)	(1.000000 ± 0.000003)	(-8.46 ± 0.03) x E-4
3 (sextupole)	(-4.74 ± 0.03) x E-4	(-4.49 ± 0.04) x E-4
4	(-8.5 ± 0.3) x E-5	(1.02 ± 0.04) x E-4
5	(-7.6 ± 0.3) x E-5	(-3.2 ± 0.4) x E-5
6	(-1.182 ± 0.003) x E-3	(-8 ± 3) x E-6
7	(4.2 ± 0.4) x E-5	(-1.8 ± 0.5) x E-5
8	(-1.2 ± 0.3) x E-5	(-3.9 ± 0.3) x E-5
9	(-2.4 ± 0.7) x E-5	(1.4 ± 0.3) x E-5
10	(1.085 ± 0.006) x E-3	(-1.2 ± 0.4) x E-5
11	(-3 ± 4) x E-6	(-2.2 ± 0.4) x E-5
12	(6 ± 3) x E-6	(8.8 ± 47.7) x E-7
13	(-1.3 ± 0.5) x E-5	(1.2 ± 0.5) x E-5
14	(-9.6 ± 0.5) x E-5	(-1.1 ± 0.5) x E-5
15	(-9 ± 5) x E-6	(-1.7 ± 0.4) x E-5