BQF-040

BOOSTER MAGNET REPORT

Results	
Date	13/04/2016
Hour	09:18:33
Temperature [°C]	21.2
Number of Measurements	17
Main Coil Current [A]	(130.0270 ± 0.0003)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	(-4.821599 ± 0.000008)
Magnet Center Offset X [μm] - (< ±160.0)	(2.27 ± 0.03)
Magnet Center Offset Y [μm] - (< ±160.0)	(-32.26 ± 0.09)
Roll [mrad] - (< ±0.8)	(-4.13 ± 0.05) x E-1
Electric Parameters	
Indutance [mH]	8.277
Voltage [V]	0.482
Resistance [mΩ]	48.20
Main Coil Number of Turns	26.25
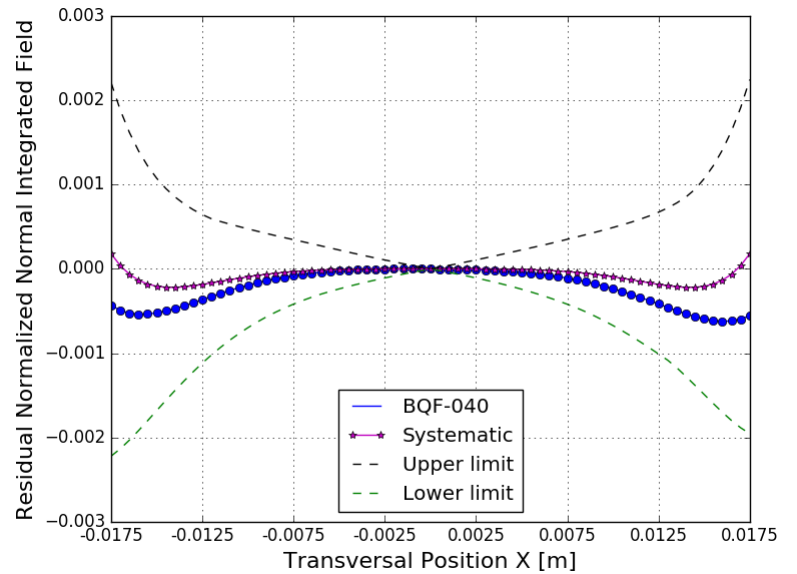
n	Normalized Normal Multipoles x=17.5 mm [T.m$^{(2-n)}$]	Normalized Skew Multipoles x=17.5 mm [T.m$^{(2-n)}$]
1 (dipole)	(1.30 ± 0.02) x E-4	(-1.844 ± 0.005) x E-3
2 (quadrupole)	(1.000000 ± 0.000002)	(-8.26 ± 0.03) x E-4
3 (sextupole)	(-3.2 ± 0.3) x E-5	(-6.44 ± 0.05) x E-4
4	(-3.05 ± 0.02) x E-4	(9.7 ± 0.6) x E-5
5	(-2.3 ± 0.4) x E-5	(2.3 ± 0.5) x E-5
6	(-1.172 ± 0.004) x E-3	(-1.8 ± 0.4) x E-5
7	(4.2 ± 0.5) x E-5	(1.6 ± 0.7) x E-5
8	(-1.3 ± 0.4) x E-5	(-1.9 ± 0.7) x E-5
9	(-3.6 ± 0.3) x E-5	(8 ± 6) x E-6
10	(1.104 ± 0.005) x E-3	(-1.9 ± 0.5) x E-5
11	(1.7 ± 0.4) x E-5	(-9 ± 6) x E-6
12	(-1.2 ± 0.6) x E-5	(3.0 ± 0.7) x E-5
13	(-3.8 ± 0.5) x E-5	(1.5 ± 0.5) x E-5
14	(-9.7 ± 0.7) x E-5	(-2.3 ± 0.8) x E-5
15	(1.0 ± 0.5) x E-5	(-8 ± 5) x E-6