



BQF-035

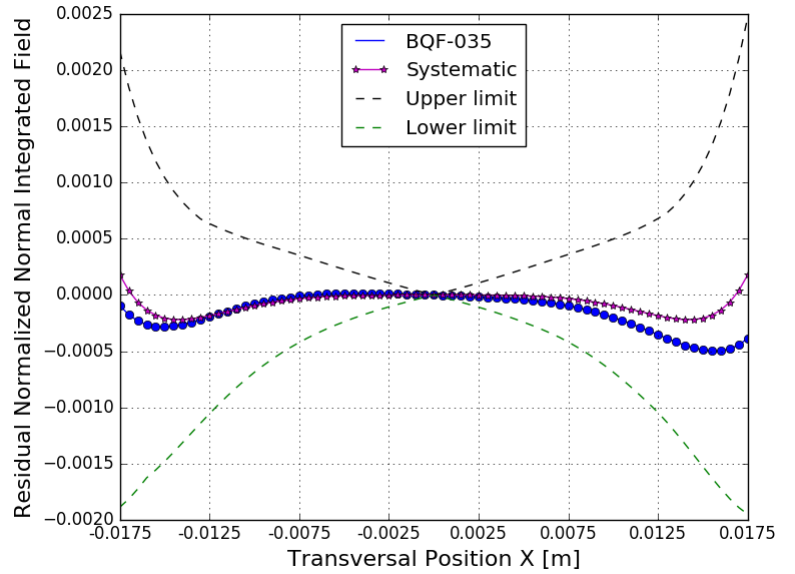
BOOSTER MAGNET REPORT

Results

Date	05/04/2016
Hour	11:08:05
Temperature [°C]	21.6
Number of Measurements	17
Main Coil Current [A]	(130.0060 ± 0.0004)
Trim Coil Current [A]	--
Integrated Gradient [T]	(-4.826482 ± 0.000010)
Magnet Center Offset X [μm] - ($< \pm 160.0$)	(19.27 ± 0.05)
Magnet Center Offset Y [μm] - ($< \pm 160.0$)	(-16.05 ± 0.06)
Roll [mrad] - ($< \pm 0.8$)	$(-6.43 \pm 0.02) \times E-1$

Electric Parameters

Inductance [mH]	8.325
Voltage [V]	0.480
Resistance [$\text{m}\Omega$]	48.00
Main Coil Number of Turns	26.25



n	Normalized Normal Multipoles $x=17.5 \text{ mm}$ [$\text{T}\cdot\text{m}^{(2-n)}$]	Normalized Skew Multipoles $x=17.5 \text{ mm}$ [$\text{T}\cdot\text{m}^{(2-n)}$]
1 (dipole)	$(1.101 \pm 0.003) \times E-3$	$(-9.17 \pm 0.03) \times E-4$
2 (quadrupole)	(1.000000 ± 0.000002)	$(-1.285 \pm 0.002) \times E-3$
3 (sextupole)	$(-9.3 \pm 0.4) \times E-5$	$(-4.54 \pm 0.03) \times E-4$
4	$(-7.3 \pm 0.4) \times E-5$	$(1.60 \pm 0.03) \times E-4$
5	$(-5.3 \pm 0.4) \times E-5$	$(-7 \pm 4) \times E-6$
6	$(-1.189 \pm 0.004) \times E-3$	$(-2 \pm 3) \times E-6$
7	$(4.0 \pm 0.4) \times E-5$	$(-10 \pm 4) \times E-6$
8	$(-2 \pm 4) \times E-6$	$(-3.3 \pm 0.3) \times E-5$
9	$(-6 \pm 2) \times E-6$	$(4.0 \pm 0.4) \times E-5$
10	$(1.106 \pm 0.004) \times E-3$	$(8 \pm 6) \times E-6$
11	$(-2.1 \pm 0.4) \times E-5$	$(-1.9 \pm 0.4) \times E-5$
12	$(6 \pm 4) \times E-6$	$(-1.0 \pm 0.5) \times E-5$
13	$(1.3 \pm 0.3) \times E-5$	$(2.5 \pm 0.4) \times E-5$
14	$(-8.8 \pm 0.3) \times E-5$	$(1.6 \pm 0.4) \times E-5$
15	$(-2.7 \pm 0.5) \times E-5$	$(-8 \pm 4) \times E-6$

