



BQD-003

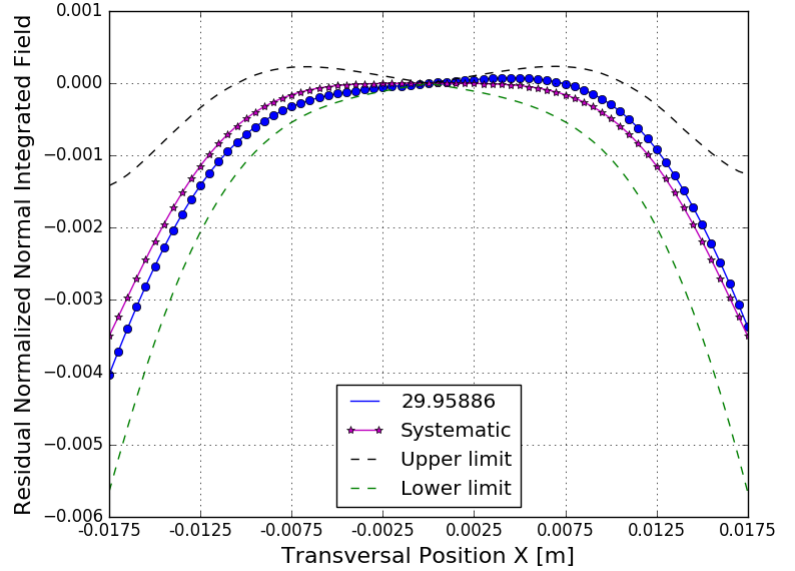
BOOSTER MAGNET REPORT

Results

| | |
|--|---|
| Date | 04/05/2016 |
| Hour | 10:52:30 |
| Temperature [°C] | 23.2 |
| Number of Measurements | 17 |
| Main Coil Current [A] | (29.9589 ± 0.0007) |
| Trim Coil Current [A] | -- |
| Integrated Gradient [T] | $(-4.96053 \pm 0.00005) \times 10^{-1}$ |
| Magnet Center Offset X [μm] - ($< \pm 160.0$) | (30.0 ± 0.2) |
| Magnet Center Offset Y [μm] - ($< \pm 160.0$) | (-24.2 ± 0.2) |
| Roll [mrad] - ($< \pm 0.8$) | $(-5.8 \pm 0.1) \times 10^{-1}$ |

Electric Parameters

| | |
|---------------------------------|--------|
| Inductance [mH] | 3.695 |
| Voltage [V] | 0.2789 |
| Resistance [$\text{m}\Omega$] | 27.89 |
| Main Coil Number of Turns | 27.5 |



| 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) | $(1.714 \pm 0.009) \times 10^{-3}$ | $(-1.380 \pm 0.009) \times 10^{-3}$ |
| 2 (quadrupole) | (1.00000 ± 0.00001) | $(-1.161 \pm 0.008) \times 10^{-3}$ |
| 3 (sextupole) | $(3.82 \pm 0.08) \times 10^{-4}$ | $(-9.9 \pm 0.2) \times 10^{-4}$ |
| 4 | $(-4 \pm 2) \times 10^{-5}$ | $(8 \pm 1) \times 10^{-5}$ |
| 5 | $(-8 \pm 2) \times 10^{-5}$ | $(8 \pm 1) \times 10^{-5}$ |
| 6 | $(-4.66 \pm 0.01) \times 10^{-3}$ | $(-8 \pm 2) \times 10^{-5}$ |
| 7 | $(4 \pm 2) \times 10^{-5}$ | $(-3 \pm 2) \times 10^{-5}$ |
| 8 | $(-3 \pm 2) \times 10^{-5}$ | $(-8 \pm 2) \times 10^{-5}$ |
| 9 | $(-3 \pm 2) \times 10^{-5}$ | $(-2 \pm 2) \times 10^{-5}$ |
| 10 | $(1.16 \pm 0.02) \times 10^{-3}$ | $(-8 \pm 3) \times 10^{-5}$ |
| 11 | $(3 \pm 3) \times 10^{-5}$ | $(-5 \pm 4) \times 10^{-5}$ |
| 12 | $(-5 \pm 2) \times 10^{-5}$ | $(-3 \pm 4) \times 10^{-5}$ |
| 13 | $(-4 \pm 2) \times 10^{-5}$ | $(9.4 \pm 18.9) \times 10^{-6}$ |
| 14 | $(-8 \pm 3) \times 10^{-5}$ | $(-9 \pm 3) \times 10^{-5}$ |
| 15 | $(3 \pm 2) \times 10^{-5}$ | $(-1 \pm 4) \times 10^{-5}$ |

