



BQD-016

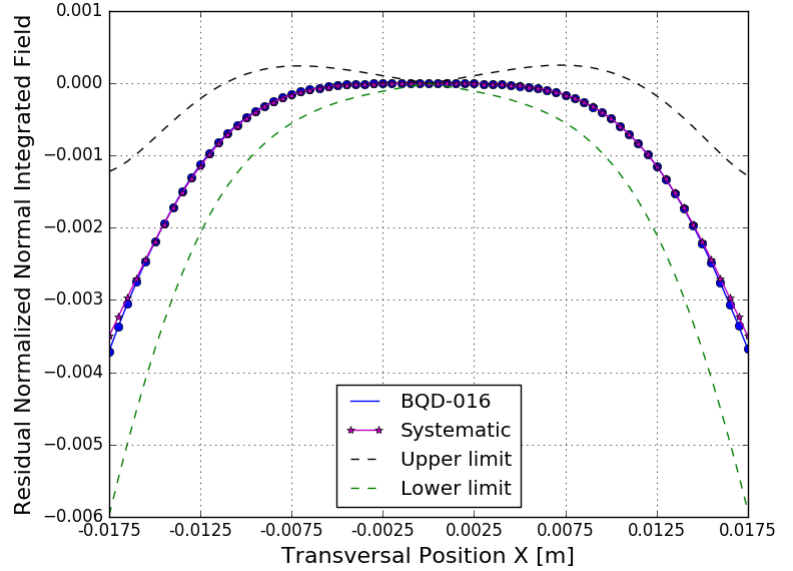
BOOSTER MAGNET REPORT

Results

| | |
|--|-------------------------------------|
| Date | 10/05/2016 |
| Hour | 10:23:36 |
| Temperature [°C] | 23.9 |
| Number of Measurements | 17 |
| Main Coil Current [A] | (31.9633 ± 0.0008) |
| Trim Coil Current [A] | -- |
| Integrated Gradient [T] | $(-5.29352 \pm 0.00008) \times E-1$ |
| Magnet Center Offset X [μm] - ($< \pm 160.0$) | (-22.5 ± 0.2) |
| Magnet Center Offset Y [μm] - ($< \pm 160.0$) | (-28.5 ± 0.4) |
| Roll [mrad] - ($< \pm 0.8$) | $(-2.0 \pm 0.2) \times E-1$ |

Electric Parameters

| | |
|---------------------------|--------|
| Inductance [mH] | 3.757 |
| Voltage [V] | 0.2762 |
| Resistance [m Ω] | 27.62 |
| Main Coil Number of Turns | 27.5 |



| n | Normalized Normal Multipoles $x=17.5 \text{ mm}$ [T.m ⁽²⁻ⁿ⁾] | Normalized Skew Multipoles $x=17.5 \text{ mm}$ [T.m ⁽²⁻ⁿ⁾] |
|----------------|--|--|
| 1 (dipole) | $(-1.283 \pm 0.010) \times E-3$ | $(-1.63 \pm 0.02) \times E-3$ |
| 2 (quadrupole) | (1.00000 ± 0.00002) | $(-4.0 \pm 0.1) \times E-4$ |
| 3 (sextupole) | $(-9.4 \pm 16.5) \times E-6$ | $(-1.07 \pm 0.02) \times E-3$ |
| 4 | $(6 \pm 10) \times E-6$ | $(1.2 \pm 0.1) \times E-4$ |
| 5 | $(-1 \pm 2) \times E-5$ | $(1.5 \pm 0.2) \times E-4$ |
| 6 | $(-4.64 \pm 0.02) \times E-3$ | $(-8.3 \pm 22.2) \times E-6$ |
| 7 | $(3 \pm 2) \times E-5$ | $(5 \pm 1) \times E-5$ |
| 8 | $(-3 \pm 2) \times E-5$ | $(4.6 \pm 11.9) \times E-6$ |
| 9 | $(-5 \pm 2) \times E-5$ | $(-4.0 \pm 23.8) \times E-6$ |
| 10 | $(1.14 \pm 0.03) \times E-3$ | $(3 \pm 2) \times E-5$ |
| 11 | $(8.4 \pm 17.3) \times E-6$ | $(5 \pm 3) \times E-5$ |
| 12 | $(-4 \pm 2) \times E-5$ | $(3 \pm 2) \times E-5$ |
| 13 | $(-3 \pm 3) \times E-5$ | $(3 \pm 2) \times E-5$ |
| 14 | $(-1.4 \pm 0.3) \times E-4$ | $(1.7 \pm 27.0) \times E-6$ |
| 15 | $(8 \pm 4) \times E-5$ | $(8 \pm 3) \times E-5$ |

