



BQF-027

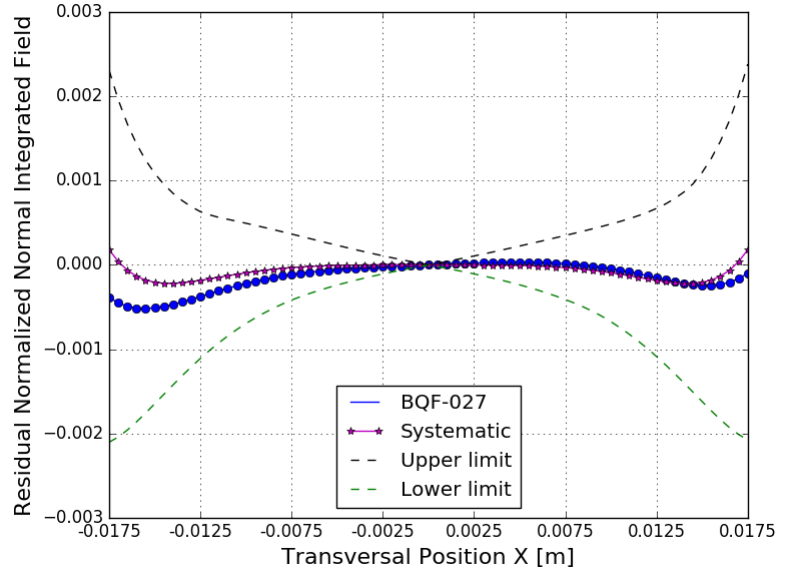
BOOSTER MAGNET REPORT

Results

| | |
|--|------------------------|
| Date | 11/04/2016 |
| Hour | 15:11:36 |
| Temperature [°C] | 21.2 |
| Number of Measurements | 17 |
| Main Coil Current [A] | (130.0071 ± 0.0004) |
| Trim Coil Current [A] | (0 ± 0) |
| Integrated Gradient [T] | (-4.821660 ± 0.000008) |
| Magnet Center Offset X [μm] - (< ±160.0) | (20.02 ± 0.06) |
| Magnet Center Offset Y [μm] - (< ±160.0) | (-39.30 ± 0.07) |
| Roll [mrad] - (< ±0.8) | (-3.13 ± 0.04) × E-1 |

Electric Parameters

| | |
|---------------------------|-------|
| Inductance [mH] | 8.311 |
| Voltage [V] | 0.48 |
| Resistance [mΩ] | 48.00 |
| 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) | (1.144 ± 0.003) × E-3 | (-2.246 ± 0.004) × E-3 |
| 2 (quadrupole) | (1.000000 ± 0.000002) | (-6.26 ± 0.02) × E-4 |
| 3 (sextupole) | (1.53 ± 0.03) × E-4 | (-2.88 ± 0.04) × E-4 |
| 4 | (-5.6 ± 0.2) × E-5 | (1.43 ± 0.05) × E-4 |
| 5 | (-4 ± 3) × E-6 | (-2.6 ± 0.3) × E-5 |
| 6 | (-1.176 ± 0.004) × E-3 | (8.5 ± 29.1) × E-7 |
| 7 | (3.0 ± 0.3) × E-5 | (-2.9 ± 0.4) × E-5 |
| 8 | (-1.2 ± 0.5) × E-5 | (-5.1 ± 0.4) × E-5 |
| 9 | (-2.0 ± 0.4) × E-5 | (5 ± 6) × E-6 |
| 10 | (1.090 ± 0.004) × E-3 | (-1 ± 6) × E-6 |
| 11 | (8 ± 5) × E-6 | (-1.6 ± 0.5) × E-5 |
| 12 | (3 ± 6) × E-6 | (1.1 ± 0.6) × E-5 |
| 13 | (-1.6 ± 0.3) × E-5 | (1.9 ± 0.5) × E-5 |
| 14 | (-9.1 ± 0.4) × E-5 | (-9 ± 5) × E-6 |
| 15 | (-6 ± 4) × E-6 | (-1.2 ± 0.6) × E-5 |

