



BQF-031

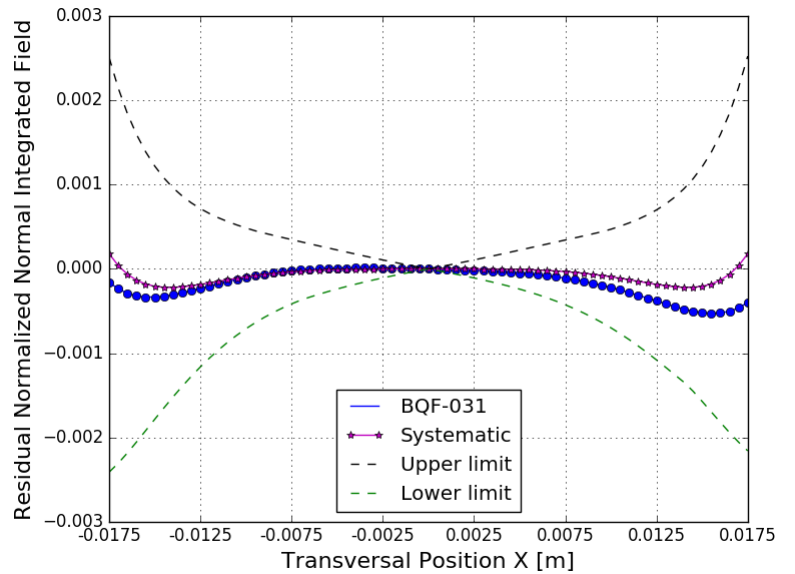
BOOSTER MAGNET REPORT

Results

| | |
|--|----------------------|
| Date | 14/04/2016 |
| Hour | 12:04:46 |
| Temperature [°C] | 21.3 |
| Number of Measurements | 17 |
| Main Coil Current [A] | (130.0044 ± 0.0004) |
| Trim Coil Current [A] | -- |
| Integrated Gradient [T] | (-4.82640 ± 0.00001) |
| Magnet Center Offset X [μm] - (< ±160.0) | (-3.94 ± 0.06) |
| Magnet Center Offset Y [μm] - (< ±160.0) | (-30.03 ± 0.07) |
| Roll [mrad] - (< ±0.8) | (-5.08 ± 0.04) × E-1 |

Electric Parameters

| | |
|---------------------------|-------|
| Inductance [mH] | 8.244 |
| 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) | (-2.25 ± 0.03) × E-4 | (-1.716 ± 0.004) × E-3 |
| 2 (quadrupole) | (1.000000 ± 0.000003) | (-1.017 ± 0.002) × E-3 |
| 3 (sextupole) | (-1.00 ± 0.02) × E-4 | (-2.26 ± 0.05) × E-4 |
| 4 | (-1.52 ± 0.04) × E-4 | (1.60 ± 0.03) × E-4 |
| 5 | (-2.3 ± 0.2) × E-5 | (-1.7 ± 0.4) × E-5 |
| 6 | (-1.156 ± 0.004) × E-3 | (-5 ± 3) × E-6 |
| 7 | (5.1 ± 0.3) × E-5 | (-4 ± 5) × E-6 |
| 8 | (-1.5 ± 0.5) × E-5 | (-1.9 ± 0.4) × E-5 |
| 9 | (-4.9 ± 0.3) × E-5 | (1.5 ± 0.3) × E-5 |
| 10 | (1.125 ± 0.004) × E-3 | (-2.6 ± 0.4) × E-5 |
| 11 | (1.7 ± 0.6) × E-5 | (-10 ± 5) × E-6 |
| 12 | (1 ± 6) × E-6 | (2.6 ± 0.5) × E-5 |
| 13 | (-2.4 ± 0.4) × E-5 | (2.3 ± 0.7) × E-5 |
| 14 | (-8.1 ± 0.2) × E-5 | (-2.0 ± 0.7) × E-5 |
| 15 | (8 ± 5) × E-6 | (-10 ± 4) × E-6 |

