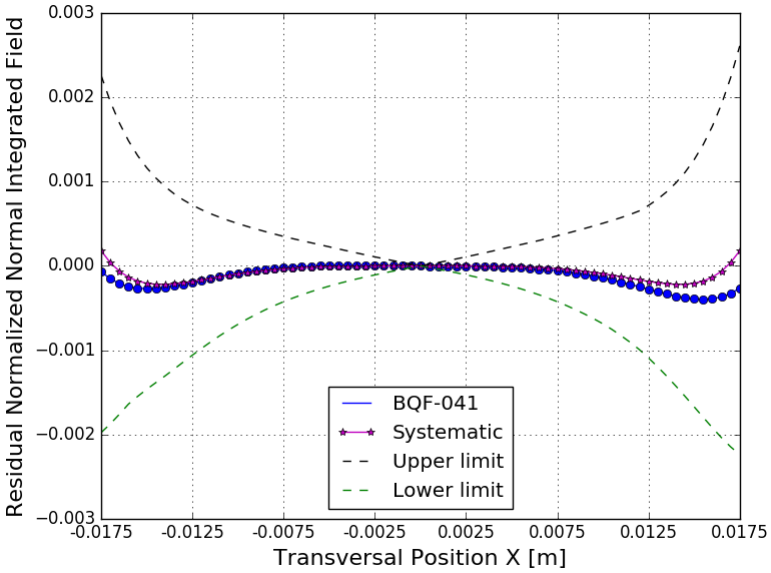
# BQF-041

# BOOSTER MAGNET REPORT

| Results | |
|---|---|
| **Date** | 13/04/2016 |
| **Hour** | 13:53:03 |
| **Temperature [°C]** | 21.2 |
| **Number of Measurements** | 17 |
| **Main Coil Current [A]** | (130.0166 ± 0.0005) |
| **Trim Coil Current [A]** | -- |
| **Integrated Gradient [T]** | (-4.82206 ± 0.00001) |
| **Magnet Center Offset X [μm] - (< ±160.0)** | (15.57 ± 0.06) |
| **Magnet Center Offset Y [μm] - (< ±160.0)** | (-17.74 ± 0.05) |
| **Roll [mrad] - (< ±0.8)** | (-5.45 ± 0.05) x E-1 |
| **Electric Parameters** | |
| **Indutance [mH]** | 8.288 |
| **Voltage [V]** | 0.485 |
| **Resistance [mΩ]** | 48.50 |
| **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) | (8.90 ± 0.03) x E-4 | (-1.014 ± 0.003) x E-3 |
| 2 (quadrupole) | (1.000000 ± 0.000002) | (-1.090 ± 0.003) x E-3 |
| 3 (sextupole) | (-3.1 ± 0.4) x E-5 | (-7.12 ± 0.06) x E-4 |
| 4 | (-7 ± 4) x E-6 | (1.26 ± 0.06) x E-4 |
| 5 | (-6.0 ± 0.3) x E-5 | (2.6 ± 0.4) x E-5 |
| 6 | (-1.167 ± 0.005) x E-3 | (-1.1 ± 0.7) x E-5 |
| 7 | (2.8 ± 0.5) x E-5 | (6.3 ± 62.3) x E-7 |
| 8 | (-2.0 ± 0.3) x E-5 | (-2.7 ± 0.6) x E-5 |
| 9 | (-2.6 ± 0.4) x E-5 | (1.2 ± 0.5) x E-5 |
| 10 | (1.114 ± 0.005) x E-3 | (-8 ± 6) x E-6 |
| 11 | (1.4 ± 0.4) x E-5 | (-3.0 ± 0.5) x E-5 |
| 12 | (7 ± 5) x E-6 | (2.2 ± 0.7) x E-5 |
| 13 | (-2.5 ± 0.4) x E-5 | (2.4 ± 0.5) x E-5 |
| 14 | (-9.3 ± 0.5) x E-5 | (-9 ± 5) x E-6 |
| 15 | (3 ± 5) x E-6 | (-2.2 ± 0.5) x E-5 |