



# BQF-021

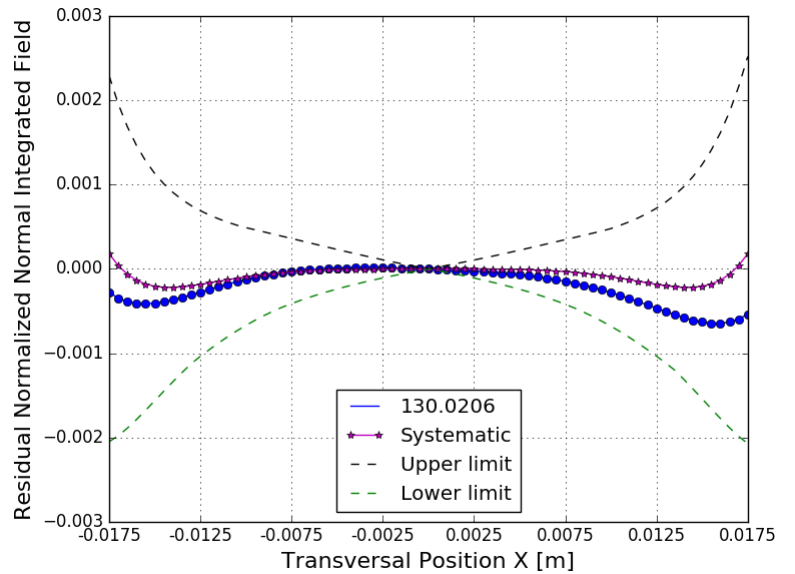
## BOOSTER MAGNET REPORT

### Results

|  |                      |
|--|----------------------|
| Date                                     | 31/03/2016           |
| Hour                                     | 08:17:29             |
| Temperature [°C]                         | 21.0                 |
| Number of Measurements                   | 17                   |
| Main Coil Current [A]                    | (130.0206 ± 0.0004)  |
| Trim Coil Current [A]                    | (0 ± 0)              |
| Integrated Gradient [T]                  | (-4.82583 ± 0.00002) |
| Magnet Center Offset X [μm] - (< ±160.0) | (4.28 ± 0.08)        |
| Magnet Center Offset Y [μm] - (< ±160.0) | (-38.08 ± 0.08)      |
| Roll [mrad] - (< ±0.8)                   | (-5.85 ± 0.06) × E-1 |

### Electric Parameters

|                           |       |
|---------------------------|-------|
| Inductance [mH]           | 8.234 |
| Voltage [V]               | 0.486 |
| Resistance [mΩ]           | 3.738 |
| Main Coil Number of Turns | 26.25 |



| n              | Normalized Normal Multipoles<br>x=17.5 mm<br>[T.m <sup>(2-n)</sup> ] | Normalized Skew Multipoles<br>x=17.5 mm<br>[T.m <sup>(2-n)</sup> ] |
|----------------|--|--|
| 1 (dipole)     | (2.45 ± 0.04) × E-4  | (-2.176 ± 0.005) × E-3   |
| 2 (quadrupole) | (1.000000 ± 0.000004)  | (-1.170 ± 0.004) × E-3   |
| 3 (sextupole)  | (-1.33 ± 0.05) × E-4   | (-1.69 ± 0.05) × E-4   |
| 4              | (-2.82 ± 0.03) × E-4   | (1.15 ± 0.04) × E-4  |
| 5              | (-2.5 ± 0.3) × E-5   | (-6.8 ± 0.5) × E-5   |
| 6              | (-1.152 ± 0.003) × E-3   | (3 ± 5) × E-6  |
| 7              | (6.0 ± 0.3) × E-5  | (1 ± 8) × E-6  |
| 8              | (-7 ± 4) × E-6   | (-1.9 ± 0.5) × E-5   |
| 9              | (-3.7 ± 0.2) × E-5   | (10 ± 5) × E-6   |
| 10             | (1.127 ± 0.004) × E-3  | (-2.5 ± 0.5) × E-5   |
| 11             | (2.2 ± 0.5) × E-5  | (-7 ± 5) × E-6   |
| 12             | (-7 ± 5) × E-6   | (1.3 ± 0.6) × E-5  |
| 13             | (-2.1 ± 0.4) × E-5   | (2.1 ± 0.5) × E-5  |
| 14             | (-8.6 ± 0.5) × E-5   | (-2.4 ± 0.6) × E-5   |
| 15             | (5 ± 6) × E-6  | (-1.2 ± 0.4) × E-5   |

