



S15-022

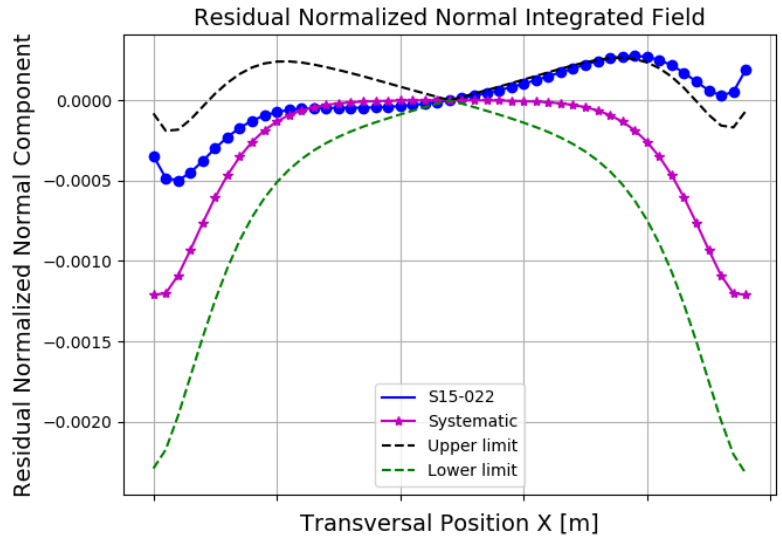
STORAGE RING MAGNET REPORT

Results

| | |
|---|---------------------|
| Date | 16/08/2018 |
| Hour | 16:45:15 |
| Temperature [°C] | 23.38 |
| Number of Measurements | 9 |
| Main Coil Current [A] | (167.796 ± 0.002) |
| Trim Coil Current [A] | (0 ± 0) |
| CH Coil Current [A] | (0 ± 0) |
| CV Coil Current [A] | (0 ± 0) |
| QS Coil Current [A] | (0 ± 0) |
| Integrated Gradient [T/m] | (-359.710 ± 0.004) |
| Magnet Center Offset X [μm] - (< ±40.0) | (21.95 ± 0.07) |
| Magnet Center Offset Y [μm] - (< ±40.0) | (25.14 ± 0.10) |
| Roll [mrad] - (< ±0.3) | (1.59 ± 0.08) x E-1 |

Electric Parameters

| | |
|---------------------------|--------|
| Inductance [mH] | 3.157 |
| Voltage [V] | 6.0106 |
| Resistance [mΩ] | 35.82 |
| Main Coil Number of Turns | 11.25 |



| n | Normalized Normal Multipoles x=12.0 mm [T.m ⁽²⁻ⁿ⁾] | Normalized Skew Multipoles x=12.0 mm [T.m ⁽²⁻ⁿ⁾] |
|----------------|--|--|
| 1 (dipole) | (-5.72 ± 0.05) x E-4 | (2.3 ± 0.2) x E-4 |
| 2 (quadrupole) | (-3.66 ± 0.01) x E-3 | (-4.19 ± 0.02) x E-3 |
| 3 (sextupole) | (1.00000 ± 0.00002) | (4.8 ± 0.2) x E-4 |
| 4 | (2.9 ± 0.1) x E-4 | (1.2 ± 0.2) x E-4 |
| 5 | (4.7 ± 0.1) x E-4 | (-4.7 ± 0.2) x E-4 |
| 6 | (-3.3 ± 84.9) x E-7 | (-2 ± 3) x E-5 |
| 7 | (1.7 ± 0.2) x E-4 | (1.2 ± 0.2) x E-4 |
| 8 | (3 ± 2) x E-5 | (3.0 ± 18.5) x E-6 |
| 9 | (-2.03 ± 0.02) x E-3 | (2.4 ± 0.2) x E-4 |
| 10 | (-3 ± 2) x E-5 | (-3.6 ± 26.4) x E-6 |
| 11 | (-2 ± 2) x E-5 | (2.4 ± 0.8) x E-5 |
| 12 | (1.3 ± 16.1) x E-6 | (2 ± 2) x E-5 |
| 13 | (-3 ± 2) x E-5 | (-1 ± 2) x E-5 |
| 14 | (-3 ± 2) x E-5 | (-3 ± 1) x E-5 |
| 15 | (1.37 ± 0.02) x E-3 | (6 ± 2) x E-5 |

