



S15-225

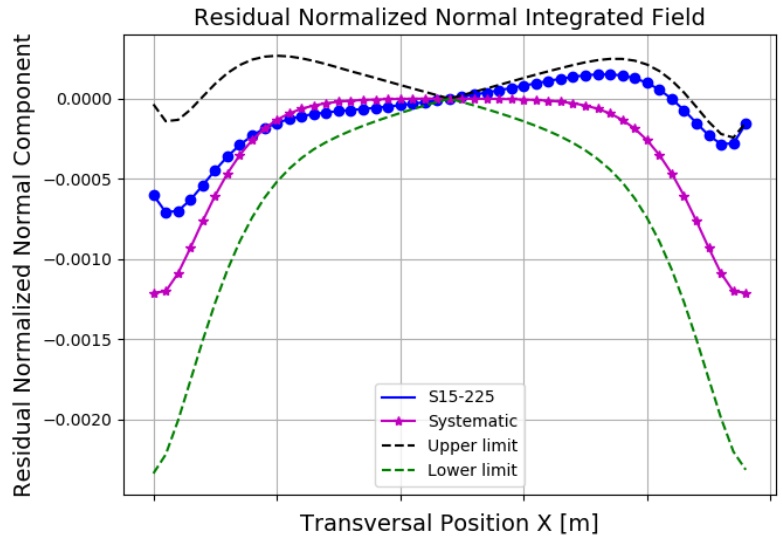
STORAGE RING MAGNET REPORT

Results

Date	31/07/2018
Hour	09:35:27
Temperature [°C]	23.381
Number of Measurements	9
Main Coil Current [A]	(167.7986 ± 0.0007)
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]	(-359.649 ± 0.004)
Magnet Center Offset X [μm] - (< ±40.0)	(16.96 ± 0.09)
Magnet Center Offset Y [μm] - (< ±40.0)	(26.68 ± 0.09)
Roll [mrad] - (< ±0.3)	(1.12 ± 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)	(-2.90 ± 0.08) x E-4	(2.5 ± 22.2) x E-6
2 (quadrupole)	(-2.83 ± 0.01) x E-3	(-4.45 ± 0.02) x E-3
3 (sextupole)	(1.00000 ± 0.00002)	(3.4 ± 0.3) x E-4
4	(2.8 ± 0.1) x E-4	(7 ± 2) x E-5
5	(1.9 ± 0.1) x E-4	(-7 ± 2) x E-5
6	(-9 ± 2) x E-5	(-2 ± 2) x E-5
7	(3.8 ± 0.9) x E-5	(2 ± 1) x E-5
8	(1 ± 2) x E-5	(4 ± 2) x E-5
9	(-1.95 ± 0.02) x E-3	(4.8 ± 0.2) x E-4
10	(2 ± 2) x E-5	(7.8 ± 26.0) x E-6
11	(2 ± 1) x E-5	(-4 ± 4) x E-5
12	(6.35 ± 252.08) x E-7	(3 ± 1) x E-5
13	(9.2 ± 14.2) x E-6	(8.45 ± 158.88) x E-7
14	(-7.8 ± 17.4) x E-6	(-2 ± 3) x E-5
15	(1.30 ± 0.02) x E-3	(4 ± 2) x E-5

