



Q14-050

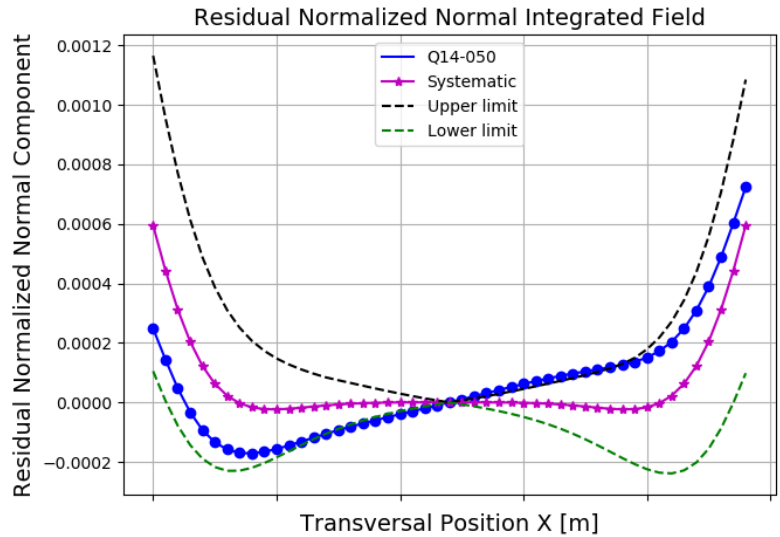
STORAGE RING MAGNET REPORT

Results

Date	25/04/2018
Hour	12:48:58
Temperature [°C]	23.38
Number of Measurements	9
Main Coil Current [A]	(147.9944 ± 0.0008)
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]	(-5.23388 ± 0.00002)
Magnet Center Offset X [μm] - (< ±40.0)	(-12.87 ± 0.04)
Magnet Center Offset Y [μm] - (< ±40.0)	(12.13 ± 0.06)
Roll [mrad] - (< ±0.3)	(-3.28 ± 0.02) x E-1

Electric Parameters

Inductance [mH]	4.781
Voltage [V]	4.4843
Resistance [mΩ]	30.3
Main Coil Number of Turns	20.0



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)	(1.072 ± 0.003) x E-3	(-1.011 ± 0.005) x E-3
2 (quadrupole)	(1.000000 ± 0.000005)	(-6.56 ± 0.04) x E-4
3 (sextupole)	(2.45 ± 0.03) x E-4	(4.48 ± 0.04) x E-4
4	(4.0 ± 0.3) x E-5	(-4.1 ± 0.5) x E-5
5	(-7 ± 3) x E-6	(-5.5 ± 0.5) x E-5
6	(-4.20 ± 0.04) x E-4	(7.5 ± 0.5) x E-5
7	(-10 ± 5) x E-6	(-1.9 ± 0.6) x E-5
8	(3 ± 4) x E-6	(2 ± 7) x E-6
9	(2.4 ± 0.6) x E-5	(-7 ± 4) x E-6
10	(1.539 ± 0.006) x E-3	(-5.4 ± 0.6) x E-5
11	(1 ± 5) x E-6	(6 ± 5) x E-6
12	(-5 ± 9) x E-6	(1 ± 4) x E-6
13	(-1.1 ± 0.6) x E-5	(1.2 ± 0.5) x E-5
14	(-6.70 ± 0.05) x E-4	(1 ± 1) x E-5
15	(-4 ± 8) x E-6	(-3 ± 7) x E-6

