



Q14-018

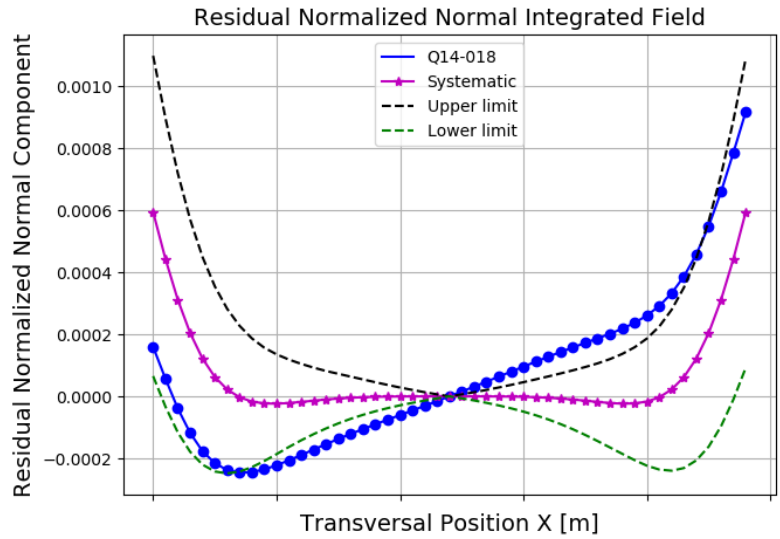
STORAGE RING MAGNET REPORT

Results

Date	11/04/2018
Hour	18:15:21
Temperature [°C]	23.8
Number of Measurements	9
Main Coil Current [A]	(147.9950 ± 0.0005)
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]	(-5.24362 ± 0.00001)
Magnet Center Offset X [μm] - (< ±40.0)	(-1.97 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(2.08 ± 0.05)
Roll [mrad] - (< ±0.3)	(-4.96 ± 0.03) 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)	(1.64 ± 0.03) x E-4	(-1.74 ± 0.05) x E-4
2 (quadrupole)	(1.000000 ± 0.000003)	(-9.91 ± 0.05) x E-4
3 (sextupole)	(3.71 ± 0.02) x E-4	(1.91 ± 0.04) x E-4
4	(7.1 ± 0.4) x E-5	(-2.5 ± 0.3) x E-5
5	(2.2 ± 0.3) x E-5	(-1 ± 5) x E-6
6	(-3.96 ± 0.03) x E-4	(4.0 ± 0.4) x E-5
7	(-7 ± 4) x E-6	(-1.2 ± 0.4) x E-5
8	(-7 ± 3) x E-6	(-2.4 ± 0.4) x E-5
9	(-5 ± 4) x E-6	(-3 ± 6) x E-6
10	(1.551 ± 0.005) x E-3	(-2.0 ± 0.5) x E-5
11	(5.4 ± 48.9) x E-7	(5 ± 5) x E-6
12	(4 ± 5) x E-6	(1.5 ± 0.3) x E-5
13	(3 ± 4) x E-6	(4 ± 7) x E-6
14	(-6.85 ± 0.02) x E-4	(-3 ± 5) x E-6
15	(-5 ± 5) x E-6	(-1 ± 4) x E-6

