



Q20-105

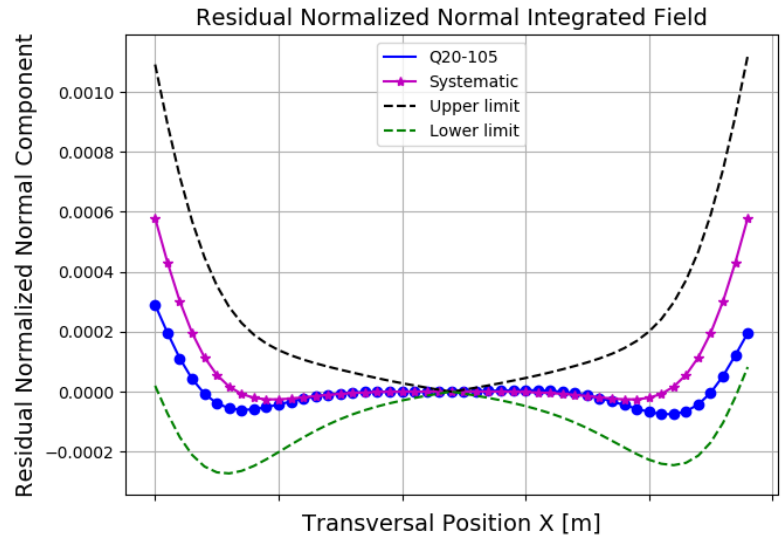
STORAGE RING MAGNET REPORT

Results

Date	25/05/2018
Hour	13:02:10
Temperature [°C]	23.58
Number of Measurements	9
Main Coil Current [A]	(157.56 ± 0.03)
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]	(-9.0899 ± 0.0002)
Magnet Center Offset X [μm] - (< ±40.0)	(4.7 ± 0.1)
Magnet Center Offset Y [μm] - (< ±40.0)	(1.20 ± 0.09)
Roll [mrad] - (< ±0.3)	(4.2 ± 0.4) × E-2

Electric Parameters

Inductance [mH]	8.9467
Voltage [V]	5.42
Resistance [mΩ]	34.4
Main Coil Number of Turns	23.25



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)	(-3.89 ± 0.10) × E-4	(-10.0 ± 0.7) × E-5
2 (quadrupole)	(1.00000 ± 0.00003)	(8.4 ± 0.9) × E-5
3 (sextupole)	(1 ± 2) × E-5	(2.1 ± 0.1) × E-4
4	(9 ± 2) × E-5	(-3 ± 1) × E-5
5	(-4 ± 2) × E-5	(-2 ± 2) × E-5
6	(-8.2 ± 0.2) × E-4	(8 ± 2) × E-5
7	(-6.4 ± 25.2) × E-6	(-1 ± 2) × E-5
8	(-1.14 ± 261.30) × E-7	(-2 ± 2) × E-5
9	(-4.1 ± 19.6) × E-6	(-5.9 ± 20.2) × E-6
10	(1.66 ± 0.02) × E-3	(-2 ± 2) × E-5
11	(-7.8 ± 10.8) × E-6	(2.2 ± 19.3) × E-6
12	(6 ± 9) × E-6	(2 ± 2) × E-5
13	(-1 ± 9) × E-6	(2.5 ± 17.2) × E-6
14	(-6.91 ± 0.08) × E-4	(-2.2 ± 18.1) × E-6
15	(-3.15 ± 117.42) × E-7	(-3.4 ± 13.5) × E-6

