

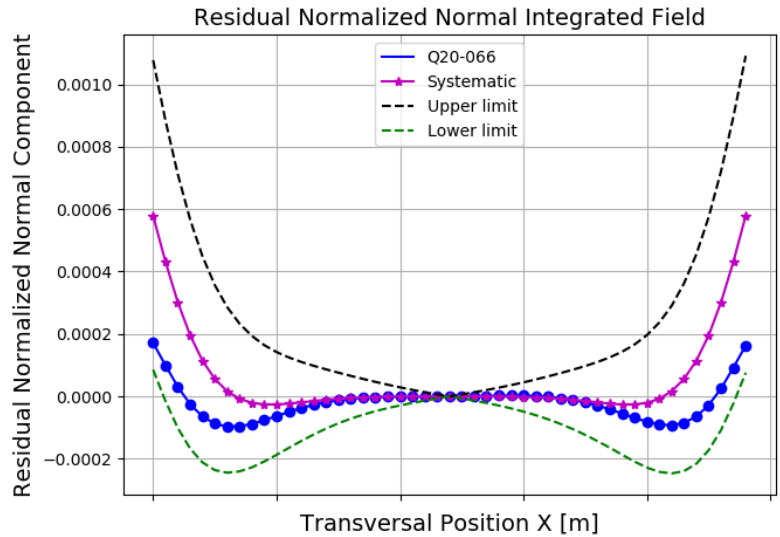


Q20-066

STORAGE RING MAGNET REPORT

Results

Date	05/06/2018
Hour	10:44:49
Temperature [°C]	23.11
Number of Measurements	9
Main Coil Current [A]	(157.4365 ± 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]	(-9.08648 ± 0.00004)
Magnet Center Offset X [μm] - (< ±40.0)	(16.58 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(-2.66 ± 0.04)
Roll [mrad] - (< ±0.3)	(1.02 ± 0.02) × E-1
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)	(-1.381 ± 0.002) × E-3	(2.22 ± 0.04) × E-4
2 (quadrupole)	(1.000000 ± 0.000006)	(2.03 ± 0.03) × E-4
3 (sextupole)	(1.0 ± 0.2) × E-5	(-3.59 ± 0.03) × E-4
4	(5.5 ± 0.2) × E-5	(-4.5 ± 0.3) × E-5
5	(-7 ± 3) × E-6	(2.7 ± 0.4) × E-5
6	(-8.53 ± 0.02) × E-4	(7.5 ± 0.3) × E-5
7	(-2 ± 3) × E-6	(3.2 ± 0.4) × E-5
8	(1.6 ± 28.6) × E-7	(-1.2 ± 0.4) × E-5
9	(-1.6 ± 0.3) × E-5	(-5.5 ± 35.1) × E-7
10	(1.668 ± 0.002) × E-3	(-3.3 ± 0.3) × E-5
11	(-5 ± 2) × E-6	(-1.2 ± 0.4) × E-5
12	(1 ± 3) × E-6	(7 ± 5) × E-6
13	(1.1 ± 0.3) × E-5	(7.3 ± 38.8) × E-7
14	(-7.03 ± 0.04) × E-4	(2 ± 2) × E-6
15	(5 ± 4) × E-6	(2 ± 5) × E-6

