

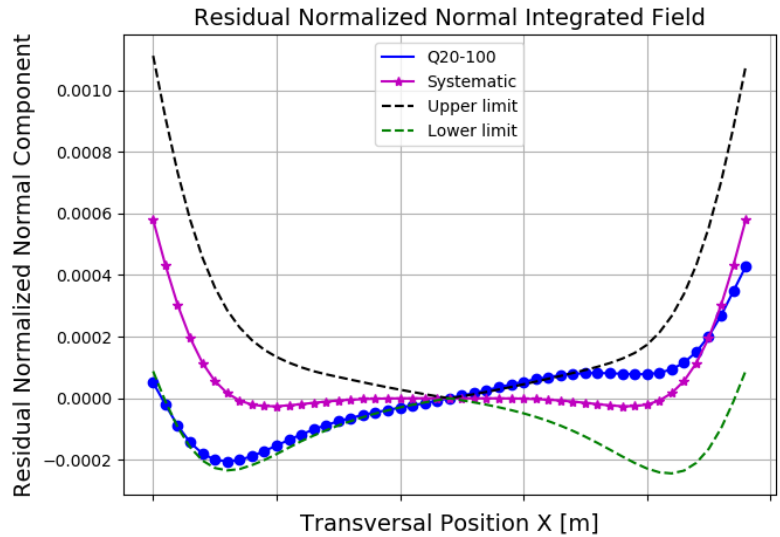


Q20-100

STORAGE RING MAGNET REPORT

Results

Date	04/06/2018
Hour	11:00:10
Temperature [°C]	23.11
Number of Measurements	9
Main Coil Current [A]	(157.559 ± 0.002)
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]	(-9.08484 ± 0.00005)
Magnet Center Offset X [μm] - (< ±40.0)	(11.71 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(-2.10 ± 0.04)
Roll [mrad] - (< ±0.3)	(8.4 ± 0.2) × 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⁾]
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1 (dipole)	(-9.75 ± 0.02) × E-4	(1.75 ± 0.03) × E-4
2 (quadrupole)	(1.000000 ± 0.000007)	(1.69 ± 0.05) × E-4
3 (sextupole)	(1.98 ± 0.06) × E-4	(1.00 ± 0.06) × E-4
4	(1.12 ± 0.06) × E-4	(-3.0 ± 0.3) × E-5
5	(6 ± 6) × E-6	(-3.2 ± 0.6) × E-5
6	(-8.34 ± 0.04) × E-4	(4.8 ± 1.0) × E-5
7	(-2 ± 8) × E-6	(-1.3 ± 0.4) × E-5
8	(2 ± 8) × E-6	(-1.6 ± 0.4) × E-5
9	(-1.3 ± 0.6) × E-5	(3.6 ± 10.7) × E-6
10	(1.672 ± 0.009) × E-3	(-2.6 ± 0.8) × E-5
11	(5 ± 9) × E-6	(1.3 ± 0.5) × E-5
12	(-1 ± 5) × E-6	(1.8 ± 0.8) × E-5
13	(6 ± 5) × E-6	(2.1 ± 11.5) × E-6
14	(-7.12 ± 0.10) × E-4	(1.1 ± 0.6) × E-5
15	(-1.3 ± 0.8) × E-5	(-8 ± 4) × E-6

