

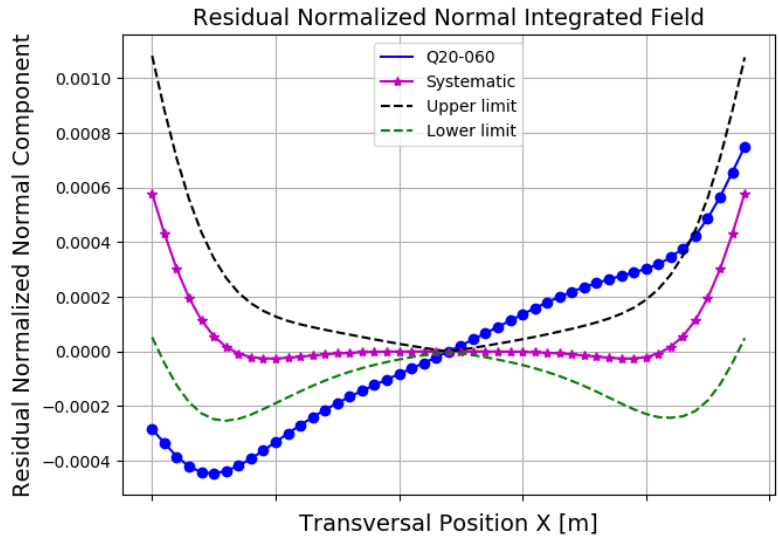


Q20-060

STORAGE RING MAGNET REPORT

Results

Date	22/05/2018
Hour	13:58:10
Temperature [°C]	22.88
Number of Measurements	9
Main Coil Current [A]	(157.3590 ± 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]	(-9.07369 ± 0.00003)
Magnet Center Offset X [μm] - (< ±40.0)	(-1.92 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(5.51 ± 0.04)
Roll [mrad] - (< ±0.3)	(1.16 ± 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)	(1.60 ± 0.03) × E-4	(-4.59 ± 0.04) × E-4
2 (quadrupole)	(1.000000 ± 0.000005)	(2.31 ± 0.04) × E-4
3 (sextupole)	(5.17 ± 0.02) × E-4	(1.78 ± 0.03) × E-4
4	(1.61 ± 0.02) × E-4	(-1.0 ± 0.4) × E-5
5	(2.1 ± 0.2) × E-5	(-4 ± 4) × E-6
6	(-8.95 ± 0.02) × E-4	(5.5 ± 0.5) × E-5
7	(-1.7 ± 0.3) × E-5	(-1.1 ± 0.3) × E-5
8	(-4.570 ± 3432.721) × E-9	(-4 ± 2) × E-6
9	(-1.5 ± 0.4) × E-5	(-4 ± 2) × E-6
10	(1.684 ± 0.004) × E-3	(-2.7 ± 0.4) × E-5
11	(3 ± 3) × E-6	(2 ± 3) × E-6
12	(-3 ± 5) × E-6	(7 ± 4) × E-6
13	(9 ± 4) × E-6	(3 ± 6) × E-6
14	(-7.14 ± 0.04) × E-4	(-2.2 ± 32.6) × E-7
15	(4.6 ± 37.7) × E-7	(-1 ± 3) × E-6

