



Q20-003

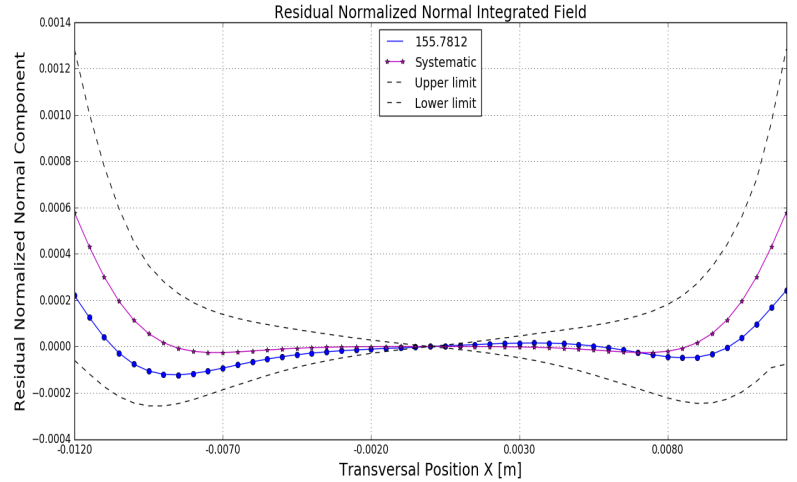
STORAGE RING MAGNET REPORT

Results

Date	23/05/2017
Hour	10:20:42
Temperature [°C]	24.0
Number of Measurements	17
Main Coil Current [A]	(155.7812 ± 0.0007)
Trim Coil Current [A]	(0 ± 0)
Integrated Gradient [T]	(-9.0861 ± 0.0003)
Magnet Center Offset X [μm] - (< ±30.0)	(-2.1 ± 0.6)
Magnet Center Offset Y [μm] - (< ±30.0)	(5 ± 5) × E-1
Roll [mrad] - (< ±0.2)	(-1.2 ± 10.3) × E-3

Electric Parameters

Indutance [mH]	9.2255
Voltage [V]	3.440
Main Coil Maximum Current [A]	155.7812
Main Coil Number of Turns	23.5



n	Normalized Normal Multipoles x=0.0 mm [T.m ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles x=0.0 mm [T.m ⁽²⁻ⁿ⁾]
1 (dipole)	(-1.7 ± 0.5) × E-4	(4 ± 4) × E-5
2 (quadrupole)	(1.00000 ± 0.00003)	(-2.4 ± 21.8) × E-6
3 (sextupole)	(7 ± 3) × E-5	(-6 ± 2) × E-5
4	(2 ± 2) × E-5	(4 ± 1) × E-5
5	(-2.6 ± 0.9) × E-5	(5.3 ± 1.0) × E-5
6	(-7.55 ± 0.09) × E-4	(6.4 ± 0.9) × E-5
7	(-4.1 ± 11.1) × E-6	(1 ± 1) × E-5
8	(-3 ± 8) × E-6	(-2.8 ± 0.9) × E-5
9	(-4 ± 9) × E-6	(-8 ± 5) × E-6
10	(1.67 ± 0.01) × E-3	(-2.0 ± 1.0) × E-5
11	(-7 ± 9) × E-6	(-1.5 ± 0.6) × E-5
12	(5 ± 9) × E-6	(3 ± 7) × E-6
13	(-1.1 ± 0.7) × E-5	(-6.3 ± 73.8) × E-7
14	(-7.05 ± 0.08) × E-4	(-5 ± 5) × E-6
15	(-4 ± 9) × E-6	(2 ± 7) × E-6

