



Q20-174

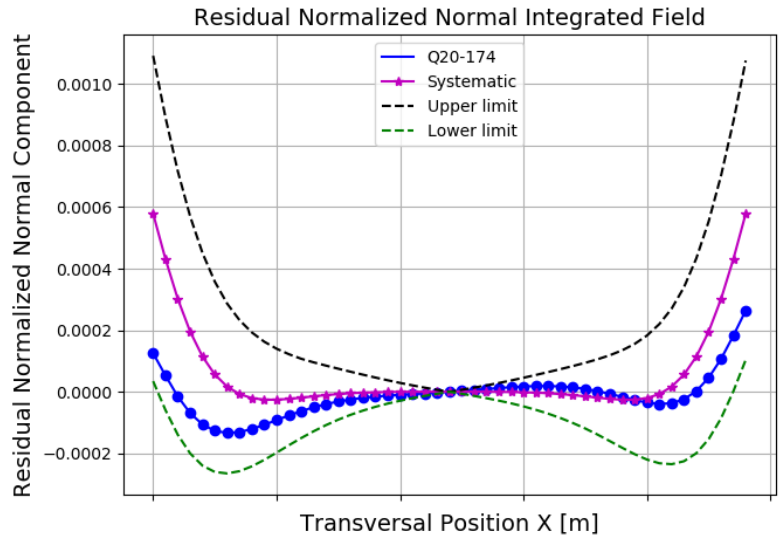
STORAGE RING MAGNET REPORT

Results

Date	07/06/2018
Hour	10:28:49
Temperature [°C]	23.01
Number of Measurements	9
Main Coil Current [A]	(157.4355 ± 0.0009)
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]	(-9.08302 ± 0.00003)
Magnet Center Offset X [μm] - (< ±40.0)	(-2.24 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(1.32 ± 0.05)
Roll [mrad] - (< ±0.3)	(9.9 ± 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⁾]
1 (dipole)	(1.87 ± 0.01) × E-4	(-1.10 ± 0.04) × E-4
2 (quadrupole)	(1.000000 ± 0.000005)	(1.98 ± 0.05) × E-4
3 (sextupole)	(6.7 ± 0.2) × E-5	(-4.7 ± 0.5) × E-5
4	(6.3 ± 0.3) × E-5	(-5.6 ± 0.5) × E-5
5	(-10 ± 4) × E-6	(1.9 ± 0.4) × E-5
6	(-8.37 ± 0.03) × E-4	(5.2 ± 0.5) × E-5
7	(9 ± 3) × E-6	(7 ± 4) × E-6
8	(-8.3 ± 27.5) × E-7	(-4 ± 3) × E-6
9	(6 ± 3) × E-6	(-6 ± 4) × E-6
10	(1.657 ± 0.003) × E-3	(-1.9 ± 0.2) × E-5
11	(-5 ± 4) × E-6	(-4 ± 5) × E-6
12	(1.4 ± 38.1) × E-7	(1.1 ± 0.4) × E-5
13	(-2 ± 2) × E-6	(5 ± 4) × E-6
14	(-6.88 ± 0.03) × E-4	(-2 ± 5) × E-6
15	(5 ± 3) × E-6	(2 ± 4) × E-6

