



Q20-034

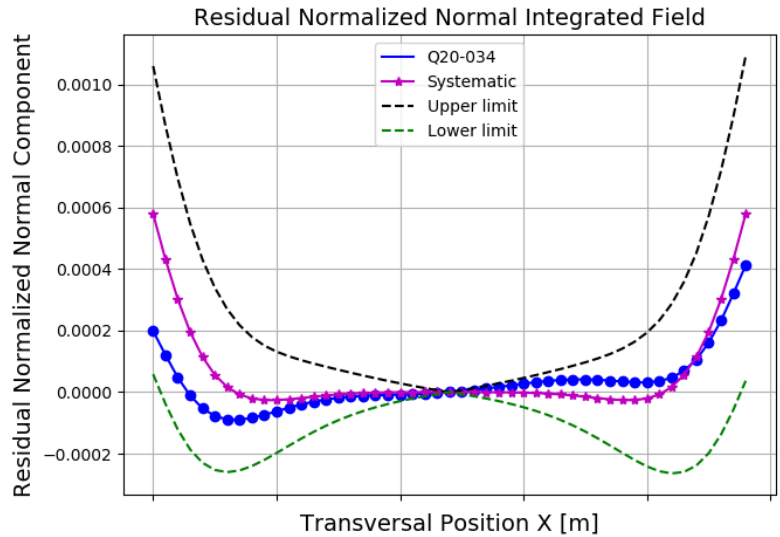
STORAGE RING MAGNET REPORT

Results

Date	14/06/2018
Hour	12:00:59
Temperature [°C]	22.7
Number of Measurements	9
Main Coil Current [A]	(157.438 ± 0.001)
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]	(-9.08582 ± 0.00004)
Magnet Center Offset X [μm] - (< ±40.0)	(6.56 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(19.47 ± 0.07)
Roll [mrad] - (< ±0.3)	(1.68 ± 0.03) × 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)	(-5.47 ± 0.03) × E-4	(-1.623 ± 0.005) × E-3
2 (quadrupole)	(1.000000 ± 0.000007)	(3.36 ± 0.06) × E-4
3 (sextupole)	(7.4 ± 0.4) × E-5	(1.090 ± 0.004) × E-3
4	(1.93 ± 0.05) × E-4	(-3.3 ± 0.5) × E-5
5	(2.0 ± 0.5) × E-5	(-1.25 ± 0.07) × E-4
6	(-8.70 ± 0.07) × E-4	(1.00 ± 0.05) × E-4
7	(2.0 ± 0.7) × E-5	(-6.0 ± 0.4) × E-5
8	(-9 ± 7) × E-6	(-3.8 ± 90.4) × E-7
9	(-5 ± 6) × E-6	(8 ± 10) × E-6
10	(1.695 ± 0.007) × E-3	(-6 ± 8) × E-6
11	(-5 ± 6) × E-6	(1.6 ± 0.6) × E-5
12	(1.3 ± 80.5) × E-7	(2 ± 8) × E-6
13	(1 ± 7) × E-6	(4 ± 7) × E-6
14	(-7.03 ± 0.05) × E-4	(4.3 ± 54.2) × E-7
15	(1 ± 6) × E-6	(-4 ± 9) × E-6

