



Q20-091

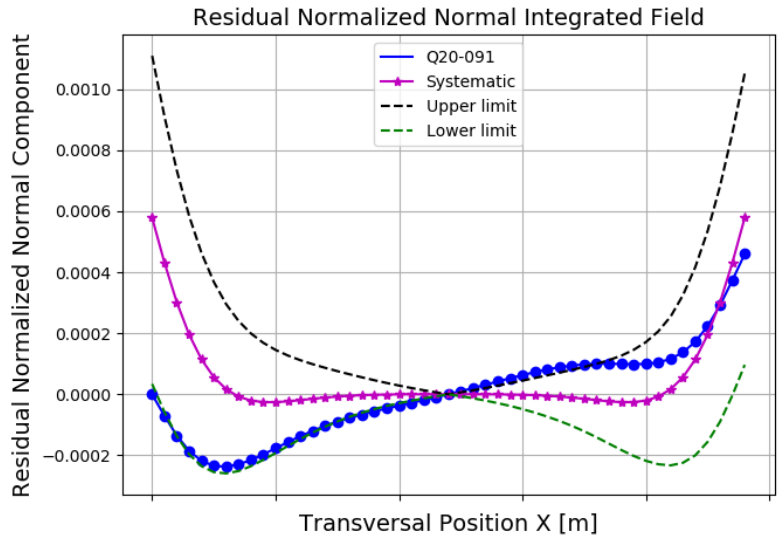
STORAGE RING MAGNET REPORT

Results

Date	07/06/2018
Hour	12:00:20
Temperature [°C]	23.0
Number of Measurements	9
Main Coil Current [A]	(157.436 ± 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]	(-9.08048 ± 0.00004)
Magnet Center Offset X [μm] - (< ±40.0)	(-6.76 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(-2.67 ± 0.05)
Roll [mrad] - (< ±0.3)	(3.7 ± 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)	(5.64 ± 0.02) × E-4	(2.23 ± 0.04) × E-4
2 (quadrupole)	(1.000000 ± 0.000006)	(7.5 ± 0.3) × E-5
3 (sextupole)	(2.38 ± 0.03) × E-4	(-2 ± 4) × E-6
4	(1.08 ± 0.04) × E-4	(-1.9 ± 0.3) × E-5
5	(-2 ± 4) × E-6	(5 ± 3) × E-6
6	(-8.29 ± 0.04) × E-4	(7.8 ± 0.4) × E-5
7	(-7 ± 4) × E-6	(-3 ± 3) × E-6
8	(-9 ± 2) × E-6	(7 ± 4) × E-6
9	(4 ± 3) × E-6	(6 ± 4) × E-6
10	(1.640 ± 0.004) × E-3	(-3.1 ± 0.3) × E-5
11	(2 ± 4) × E-6	(-5 ± 5) × E-6
12	(-1.5 ± 34.3) × E-7	(-2 ± 5) × E-6
13	(-6 ± 3) × E-6	(-9 ± 6) × E-6
14	(-6.80 ± 0.04) × E-4	(-8 ± 2) × E-6
15	(5.8 ± 31.2) × E-7	(8 ± 4) × E-6

