



Q20-152

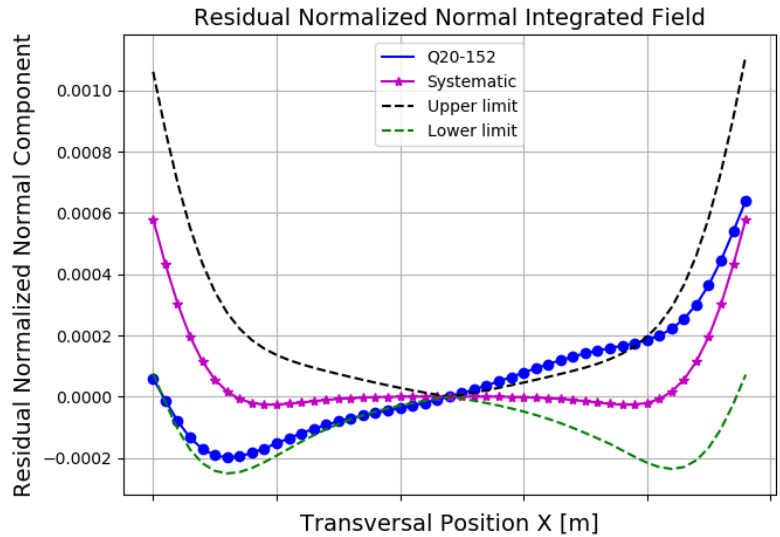
STORAGE RING MAGNET REPORT

Results

Date	28/05/2018
Hour	15:30:25
Temperature [°C]	21.91
Number of Measurements	9
Main Coil Current [A]	(157.4388 ± 0.0007)
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]	(-9.08493 ± 0.00004)
Magnet Center Offset X [μm] - (< ±40.0)	(7.46 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(-8.52 ± 0.09)
Roll [mrad] - (< ±0.3)	(3.5 ± 0.3) × 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)	(-6.22 ± 0.03) × E-4	(7.10 ± 0.07) × E-4
2 (quadrupole)	(1.000000 ± 0.000007)	(6.9 ± 0.6) × E-5
3 (sextupole)	(2.62 ± 0.02) × E-4	(-5 ± 8) × E-6
4	(2.55 ± 0.03) × E-4	(-5.8 ± 0.8) × E-5
5	(3.3 ± 0.3) × E-5	(-1.3 ± 0.7) × E-5
6	(-8.71 ± 0.03) × E-4	(6.5 ± 0.7) × E-5
7	(3 ± 3) × E-6	(2 ± 6) × E-6
8	(-1.3 ± 0.4) × E-5	(-4.2 ± 73.3) × E-7
9	(-1.2 ± 0.3) × E-5	(-1 ± 4) × E-6
10	(1.680 ± 0.005) × E-3	(-1.1 ± 0.5) × E-5
11	(-1.3 ± 24.9) × E-7	(4 ± 6) × E-6
12	(1 ± 4) × E-6	(5 ± 3) × E-6
13	(7 ± 5) × E-6	(4 ± 4) × E-6
14	(-7.03 ± 0.02) × E-4	(1 ± 4) × E-6
15	(-3 ± 3) × E-6	(-6 ± 5) × E-6

