



Q20-116

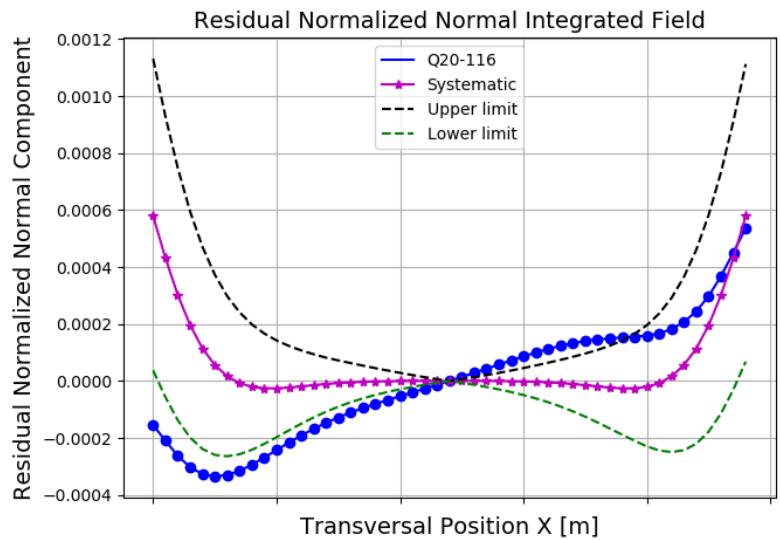
STORAGE RING MAGNET REPORT

Results

Date	22/05/2018
Hour	16:58:50
Temperature [°C]	23.09
Number of Measurements	9
Main Coil Current [A]	(157.3581 ± 0.0005)
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]	(-9.06903 ± 0.00004)
Magnet Center Offset X [μm] - (< ±40.0)	(3.67 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(-2.77 ± 0.06)
Roll [mrad] - (< ±0.3)	(7.4 ± 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)	(-3.06 ± 0.02) × E-4	(2.31 ± 0.05) × E-4
2 (quadrupole)	(1.000000 ± 0.000006)	(1.48 ± 0.04) × E-4
3 (sextupole)	(3.32 ± 0.03) × E-4	(7.5 ± 0.6) × E-5
4	(1.01 ± 0.03) × E-4	(-5.1 ± 0.5) × E-5
5	(2.0 ± 0.3) × E-5	(-3.4 ± 0.3) × E-5
6	(-8.71 ± 0.03) × E-4	(6.2 ± 0.4) × E-5
7	(-3 ± 4) × E-6	(5 ± 4) × E-6
8	(3 ± 4) × E-6	(-1 ± 4) × E-6
9	(-9 ± 3) × E-6	(4 ± 3) × E-6
10	(1.666 ± 0.002) × E-3	(-2.9 ± 0.5) × E-5
11	(-1 ± 3) × E-6	(1 ± 3) × E-6
12	(-5 ± 4) × E-6	(7 ± 3) × E-6
13	(6 ± 3) × E-6	(-7.41 ± 396.93) × E-8
14	(-7.03 ± 0.02) × E-4	(4 ± 4) × E-6
15	(-5.2 ± 30.9) × E-7	(-3 ± 4) × E-6

