



Q20-045

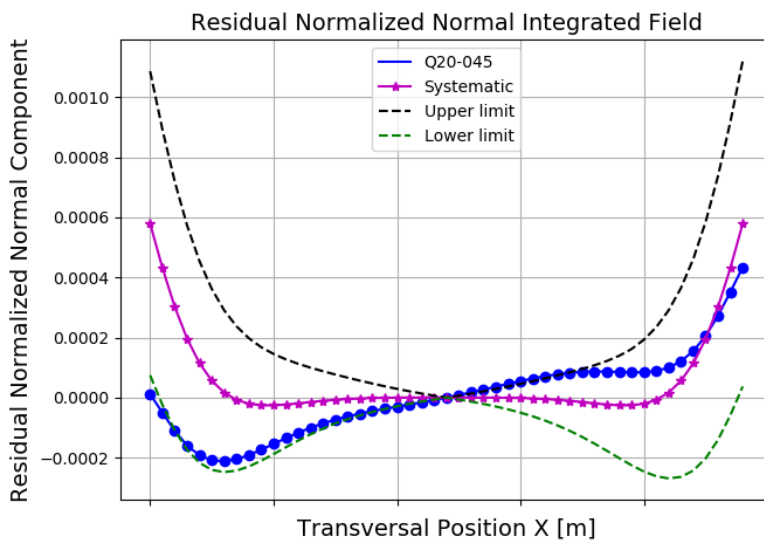
STORAGE RING MAGNET REPORT

Results

Date	19/06/2018
Hour	09:12:55
Temperature [°C]	23.94
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]	(-9.08606 ± 0.00003)
Magnet Center Offset X [μm] - (< ±40.0)	(13.10 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(7.19 ± 0.09)
Roll [mrad] - (< ±0.3)	(6.6 ± 0.4) × 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)	(-1.092 ± 0.002) × E-3	(-5.99 ± 0.08) × E-4
2 (quadrupole)	(1.000000 ± 0.000005)	(1.32 ± 0.07) × E-4
3 (sextupole)	(1.99 ± 0.04) × E-4	(2.40 ± 0.07) × E-4
4	(1.35 ± 0.04) × E-4	(-8.2 ± 0.6) × E-5
5	(2.0 ± 0.5) × E-5	(-3.4 ± 0.8) × E-5
6	(-8.79 ± 0.05) × E-4	(9.3 ± 0.8) × E-5
7	(5 ± 7) × E-6	(-1.3 ± 0.4) × E-5
8	(5.6 ± 62.0) × E-7	(-1.8 ± 0.7) × E-5
9	(-2.0 ± 0.6) × E-5	(1.1 ± 53.8) × E-7
10	(1.69 ± 0.01) × E-3	(-4.8 ± 0.5) × E-5
11	(-1.3 ± 0.8) × E-5	(4 ± 7) × E-6
12	(-4.8 ± 70.5) × E-7	(2.3 ± 0.4) × E-5
13	(1.4 ± 0.6) × E-5	(2 ± 6) × E-6
14	(-7.23 ± 0.06) × E-4	(1.9 ± 0.6) × E-5
15	(6 ± 7) × E-6	(-3 ± 6) × E-6

