



# Q20-115

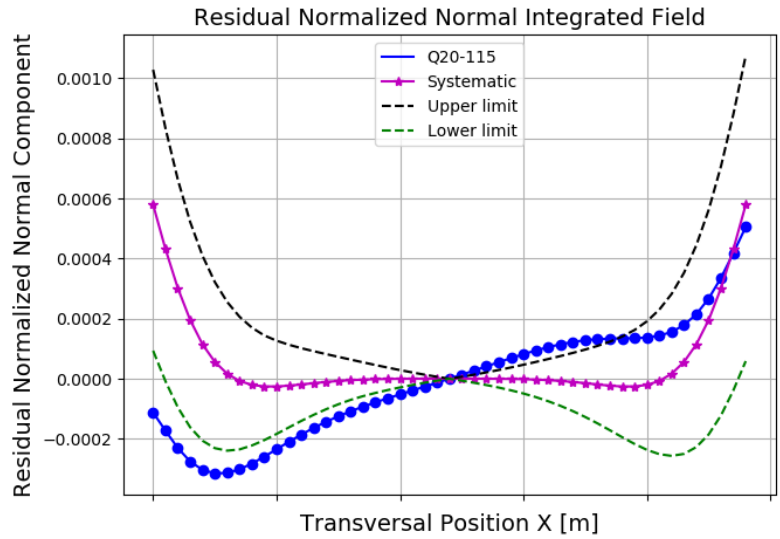
## STORAGE RING MAGNET REPORT

### Results

Date	04/06/2018
Hour	15:12:56
Temperature [°C]	22.99
Number of Measurements	9
Main Coil Current [A]	(157.437 ± 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]	(-9.08323 ± 0.00003)
Magnet Center Offset X [μm] - (< ±40.0)	(3.71 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(10.8 ± 0.1)
Roll [mrad] - (< ±0.3)	(1.37 ± 0.04) × 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 <sup>(2-n)</sup> ]	Normalized Skew Multipoles x=12.0 mm [T.m <sup>(2-n)</sup> ]
1 (dipole)	(-3.09 ± 0.02) × E-4	(-9.02 ± 0.09) × E-4
2 (quadrupole)	(1.000000 ± 0.000005)	(2.74 ± 0.09) × E-4
3 (sextupole)	(3.22 ± 0.03) × E-4	(3.09 ± 0.09) × E-4
4	(7.8 ± 0.4) × E-5	(-1.2 ± 0.7) × E-5
5	(-1.6 ± 0.4) × E-5	(-5.5 ± 0.7) × E-5
6	(-8.49 ± 0.04) × E-4	(6.2 ± 0.7) × E-5
7	(-3 ± 2) × E-6	(4 ± 5) × E-6
8	(1.2 ± 0.4) × E-5	(-1.0 ± 0.6) × E-5
9	(1.4 ± 0.5) × E-5	(-9 ± 4) × E-6
10	(1.666 ± 0.003) × E-3	(-4.4 ± 0.6) × E-5
11	(-1.3 ± 0.5) × E-5	(-1.2 ± 0.9) × E-5
12	(-1.3 ± 0.5) × E-5	(9 ± 6) × E-6
13	(-10 ± 5) × E-6	(1.2 ± 0.7) × E-5
14	(-6.98 ± 0.03) × E-4	(3.1 ± 0.7) × E-5
15	(1.5 ± 0.5) × E-5	(1.2 ± 0.6) × E-5

