



Q14-064

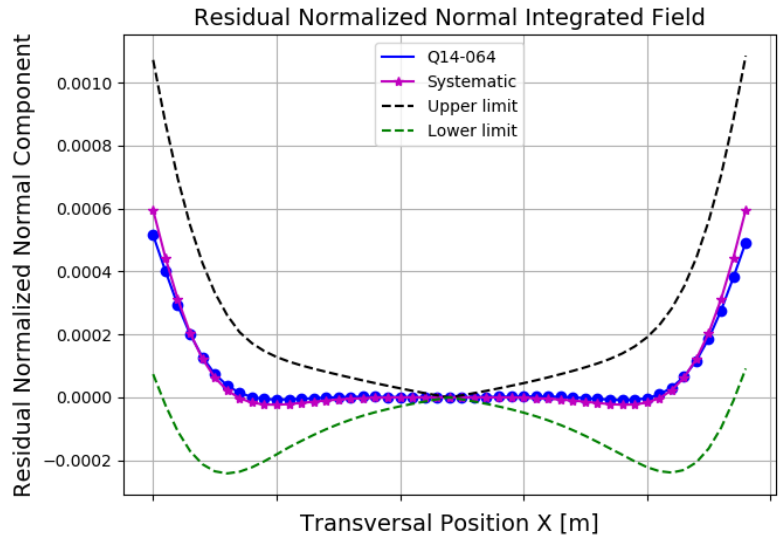
## STORAGE RING MAGNET REPORT

### Results

Date	06/04/2018
Hour	10:29:10
Temperature [°C]	23.6
Number of Measurements	9
Main Coil Current [A]	(147.9959 ± 0.0004)
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]	(-5.23610 ± 0.00002)
Magnet Center Offset X [μm] - (< ±40.0)	(15.15 ± 0.06)
Magnet Center Offset Y [μm] - (< ±40.0)	(6.20 ± 0.04)
Roll [mrad] - (< ±0.3)	(-4.66 ± 0.02) x E-1

### Electric Parameters

Inductance [mH]	4.781
Voltage [V]	4.4843
Resistance [mΩ]	30.3
Main Coil Number of Turns	20.0



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)	(-1.263 ± 0.005) x E-3	(-5.16 ± 0.04) x E-4
2 (quadrupole)	(1.000000 ± 0.000006)	(-9.32 ± 0.04) x E-4
3 (sextupole)	(3 ± 2) x E-6	(6.5 ± 0.3) x E-5
4	(6.3 ± 0.3) x E-5	(-4.9 ± 0.4) x E-5
5	(-1.5 ± 0.4) x E-5	(-1.7 ± 0.3) x E-5
6	(-4.25 ± 0.04) x E-4	(1.7 ± 0.3) x E-5
7	(8 ± 3) x E-6	(2 ± 4) x E-6
8	(-2.1 ± 28.7) x E-7	(3.1 ± 35.0) x E-7
9	(-9 ± 3) x E-6	(-3.7 ± 29.9) x E-7
10	(1.544 ± 0.006) x E-3	(-5 ± 3) x E-6
11	(-5 ± 6) x E-6	(-1 ± 4) x E-6
12	(4 ± 5) x E-6	(10 ± 3) x E-6
13	(7 ± 4) x E-6	(8.4 ± 28.5) x E-7
14	(-6.82 ± 0.06) x E-4	(-9 ± 6) x E-6
15	(-8.2 ± 26.9) x E-7	(2 ± 4) x E-6

