

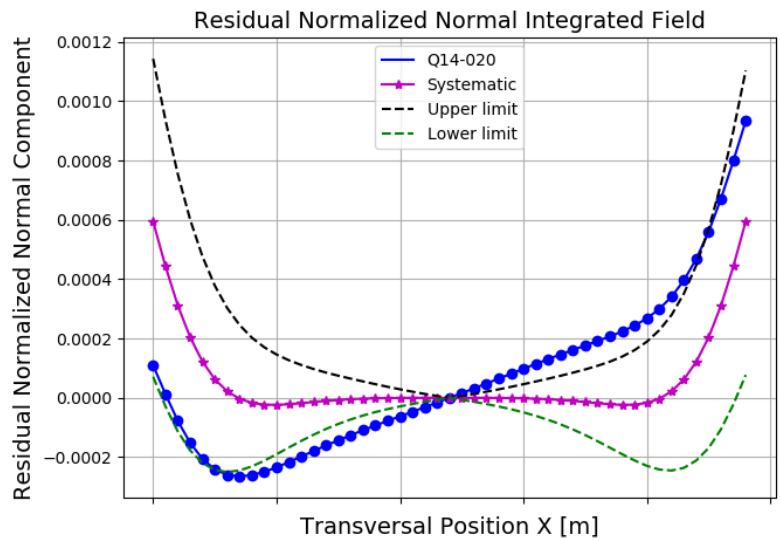


Q14-020

## STORAGE RING MAGNET REPORT

### Results

Date	09/04/2018
Hour	11:46:52
Temperature [°C]	23.7
Number of Measurements	9
Main Coil Current [A]	(147.998 ± 0.002)
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]	(-5.234457 ± 0.000009)
Magnet Center Offset X [μm] - (< ±40.0)	(-4.50 ± 0.05)
Magnet Center Offset Y [μm] - (< ±40.0)	(7.65 ± 0.08)
Roll [mrad] - (< ±0.3)	(-4.47 ± 0.03) 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)	(3.75 ± 0.04) x E-4	(-6.37 ± 0.06) x E-4
2 (quadrupole)	(1.000000 ± 0.000002)	(-8.93 ± 0.05) x E-4
3 (sextupole)	(3.80 ± 0.03) x E-4	(2.65 ± 0.06) x E-4
4	(6.6 ± 0.3) x E-5	(-4.3 ± 0.5) x E-5
5	(3.6 ± 0.3) x E-5	(-4.2 ± 0.7) x E-5
6	(-4.03 ± 0.05) x E-4	(4.5 ± 0.7) x E-5
7	(5.5 ± 47.0) x E-7	(-6 ± 4) x E-6
8	(-8 ± 3) x E-6	(-4 ± 7) x E-6
9	(7.7 ± 41.5) x E-7	(6 ± 7) x E-6
10	(1.540 ± 0.003) x E-3	(-1.4 ± 0.6) x E-5
11	(-3 ± 6) x E-6	(-6 ± 6) x E-6
12	(4 ± 7) x E-6	(9 ± 6) x E-6
13	(-2.6 ± 55.2) x E-7	(2 ± 8) x E-6
14	(-6.78 ± 0.06) x E-4	(-8 ± 5) x E-6
15	(-3 ± 5) x E-6	(2 ± 8) x E-6

