



Q14-081

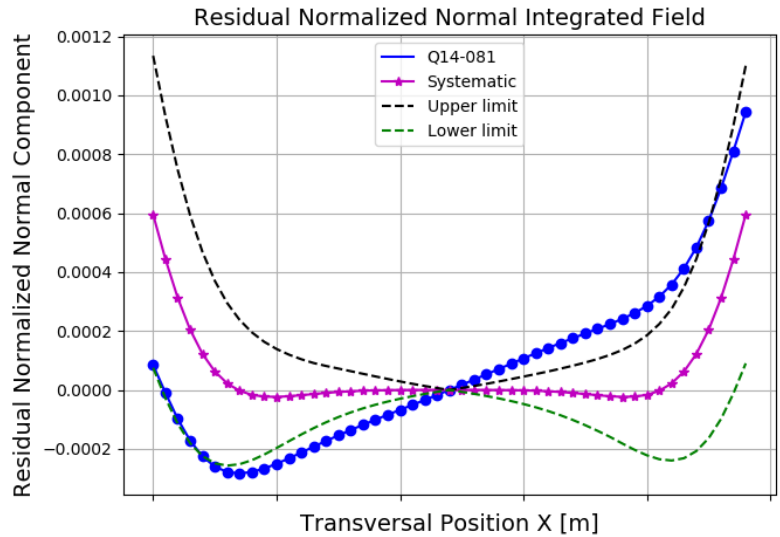
## STORAGE RING MAGNET REPORT

### Results

Date	09/04/2018
Hour	15:53:57
Temperature [°C]	23.8
Number of Measurements	9
Main Coil Current [A]	(147.998 ± 0.005)
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]	(-5.24070 ± 0.00003)
Magnet Center Offset X [μm] - (< ±40.0)	(-5.2 ± 0.6) x E-1
Magnet Center Offset Y [μm] - (< ±40.0)	(13.09 ± 0.07)
Roll [mrad] - (< ±0.3)	(-3.53 ± 0.04) 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)	(4.3 ± 0.5) x E-5	(-1.091 ± 0.006) x E-3
2 (quadrupole)	(1.000000 ± 0.000009)	(-7.07 ± 0.07) x E-4
3 (sextupole)	(4.15 ± 0.03) x E-4	(1.54 ± 0.06) x E-4
4	(7.2 ± 0.5) x E-5	(-6.6 ± 0.7) x E-5
5	(2.1 ± 0.6) x E-5	(-1.5 ± 0.7) x E-5
6	(-4.26 ± 0.04) x E-4	(1.6 ± 0.7) x E-5
7	(-6 ± 7) x E-6	(9 ± 9) x E-6
8	(5 ± 7) x E-6	(-6.7 ± 10.3) x E-6
9	(-10 ± 9) x E-6	(-1.1 ± 0.7) x E-5
10	(1.544 ± 0.006) x E-3	(1.6 ± 1.0) x E-5
11	(1 ± 7) x E-6	(-2 ± 1) x E-5
12	(-8 ± 6) x E-6	(1.6 ± 0.7) x E-5
13	(1.2 ± 0.4) x E-5	(1.0 ± 0.9) x E-5
14	(-6.74 ± 0.09) x E-4	(-3 ± 1) x E-5
15	(-5 ± 8) x E-6	(2 ± 1) x E-5

