



Q14-040

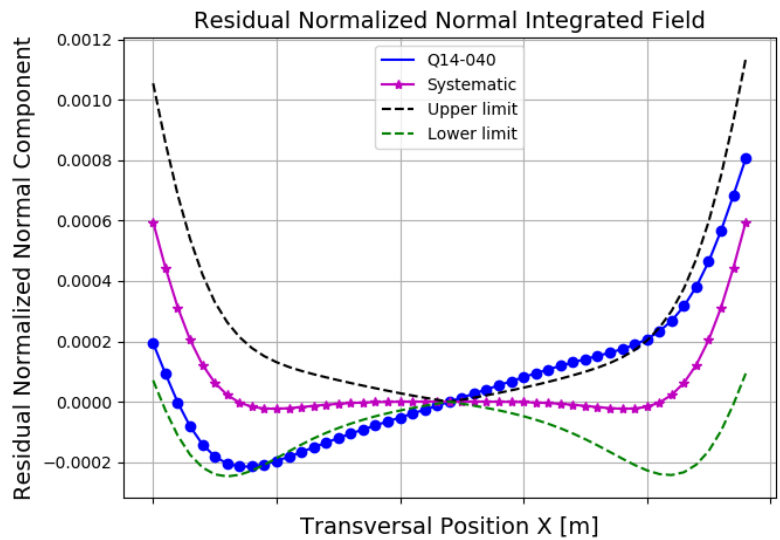
## STORAGE RING MAGNET REPORT

### Results

Date	13/04/2018
Hour	12:56:28
Temperature [°C]	23.7
Number of Measurements	9
Main Coil Current [A]	(147.9954 ± 0.0005)
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]	(-5.23654 ± 0.00002)
Magnet Center Offset X [μm] - (< ±40.0)	(2.18 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(-3.3 ± 0.6) x E-1
Roll [mrad] - (< ±0.3)	(-3.26 ± 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)	(-1.81 ± 0.02) x E-4	(2.7 ± 0.5) x E-5
2 (quadrupole)	(1.000000 ± 0.000005)	(-6.51 ± 0.07) x E-4
3 (sextupole)	(3.20 ± 0.02) x E-4	(2.4 ± 0.5) x E-5
4	(4.6 ± 0.5) x E-5	(-3.0 ± 0.5) x E-5
5	(-4 ± 4) x E-6	(4.6 ± 44.5) x E-7
6	(-3.99 ± 0.05) x E-4	(4.6 ± 0.6) x E-5
7	(-6 ± 4) x E-6	(8.2 ± 61.7) x E-7
8	(-3.3 ± 67.0) x E-7	(2 ± 4) x E-6
9	(2 ± 6) x E-6	(-4 ± 7) x E-6
10	(1.534 ± 0.004) x E-3	(-1.7 ± 0.7) x E-5
11	(-5 ± 6) x E-6	(-4 ± 6) x E-6
12	(-1 ± 8) x E-6	(6 ± 4) x E-6
13	(7.5 ± 58.1) x E-7	(3 ± 5) x E-6
14	(-6.80 ± 0.05) x E-4	(-3 ± 7) x E-6
15	(-2 ± 5) x E-6	(-1 ± 6) x E-6

