



S15-014

## STORAGE RING MAGNET REPORT

### Results

Date 28/08/2018

Hour 12:39:55

Temperature [°C] 23.453

Number of Measurements 9

Main Coil Current [A] (167.7976 ± 0.0007)

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/m] (-359.405 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (17.03 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (28.8 ± 0.2)

Roll [mrad] - (< ±0.3) (1 ± 1) × E-2

### Electric Parameters

Inductance [mH] 3.157

Voltage [V] 6.0106

Resistance [mΩ] 35.82

Main Coil Number of Turns 11.25

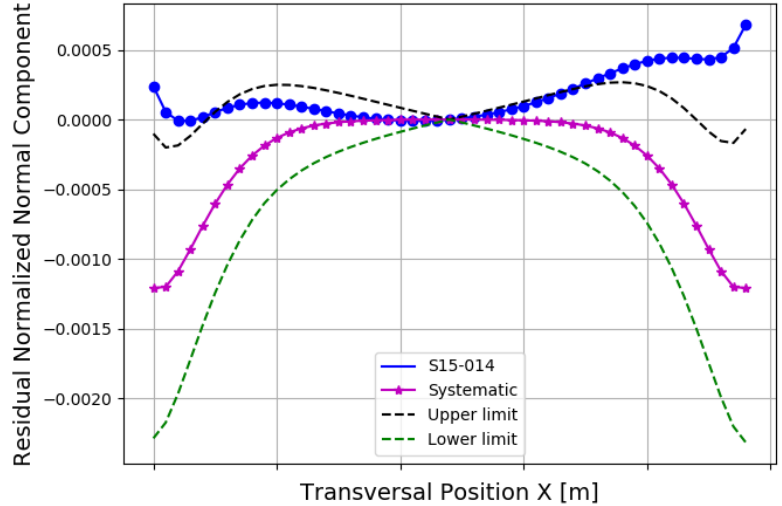
n

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)	(-7.87 ± 0.06) × E-4	(8 ± 4) × E-5
2 (quadrupole)	(-2.838 ± 0.004) × E-3	(-4.80 ± 0.04) × E-3
3 (sextupole)	(1.000000 ± 0.000009)	(3 ± 3) × E-5
4	(1.77 ± 0.05) × E-4	(1.1 ± 0.3) × E-4
5	(8.10 ± 0.04) × E-4	(1 ± 3) × E-5
6	(8.9 ± 0.5) × E-5	(5 ± 3) × E-5
7	(3.27 ± 0.06) × E-4	(2 ± 3) × E-5
8	(6.5 ± 0.6) × E-5	(9 ± 2) × E-5
9	(-1.86 ± 0.01) × E-3	(2.6 ± 0.2) × E-4
10	(5.6 ± 15.5) × E-6	(-2 ± 2) × E-5
11	(1 ± 2) × E-5	(-3 ± 4) × E-5
12	(-4 ± 1) × E-5	(-9 ± 1) × E-5
13	(-1.2 ± 0.2) × E-4	(-7.9 ± 14.5) × E-6
14	(-7 ± 1) × E-5	(-7.9 ± 17.4) × E-6
15	(1.280 ± 0.008) × E-3	(-4 ± 2) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

