



S15-031

## STORAGE RING MAGNET REPORT

### Results

Date 15/08/2018

Hour 11:30:16

Temperature [°C] 23.368

Number of Measurements 9

Main Coil Current [A] (167.797 ± 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/m] (-360.849 ± 0.009)

Magnet Center Offset X [μm] - (< ±40.0) (12.27 ± 0.05)

Magnet Center Offset Y [μm] - (< ±40.0) (17.6 ± 0.1)

Roll [mrad] - (< ±0.3) (4.0 ± 0.6) × E-2

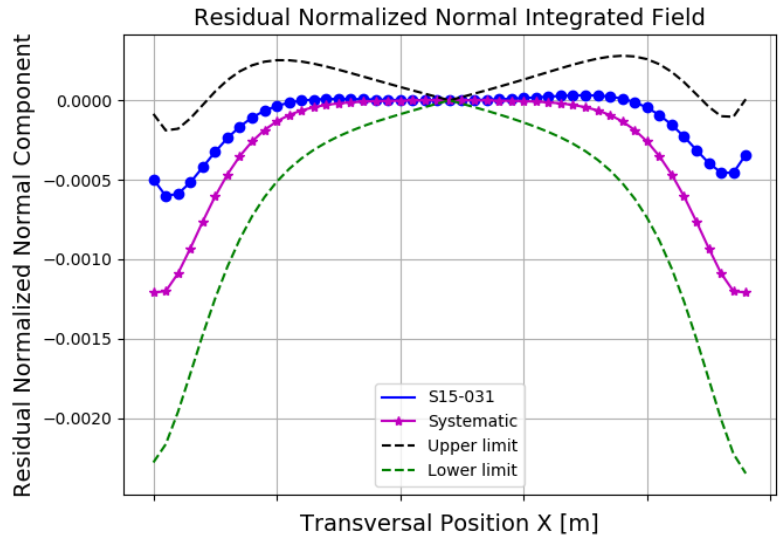
### Electric Parameters

Inductance [mH] 3.157

Voltage [V] 6.0106

Resistance [mΩ] 35.82

Main Coil Number of Turns 11.25



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>]

n

1 (dipole)

(4.4 ± 0.6) × E-5

(-1.1 ± 0.1) × E-4

2 (quadrupole)

(-2.045 ± 0.009) × E-3

(-2.94 ± 0.02) × E-3

3 (sextupole)

(1.00000 ± 0.00004)

(1.2 ± 0.2) × E-4

4

(1 ± 1) × E-5

(8 ± 1) × E-5

5

(1.6 ± 0.1) × E-4

(4 ± 2) × E-5

6

(7 ± 2) × E-5

(-1 ± 1) × E-5

7

(8.1 ± 0.6) × E-5

(-8.7 ± 10.5) × E-6

8

(1.7 ± 1.0) × E-5

(-1.5 ± 17.5) × E-6

9

(-1.96 ± 0.01) × E-3

(2.4 ± 0.2) × E-4

10

(-4.4 ± 13.2) × E-6

(-2 ± 1) × E-5

11

(-3 ± 2) × E-5

(-7 ± 9) × E-6

12

(-2 ± 9) × E-6

(-5.3 ± 12.0) × E-6

13

(-3 ± 1) × E-5

(2 ± 1) × E-5

14

(-2 ± 1) × E-5

(-2 ± 1) × E-5

15

(1.36 ± 0.01) × E-3

(-5 ± 2) × E-5

