



S15-053

## STORAGE RING MAGNET REPORT

### Results

Date 29/06/2018

Hour 09:43:45

Temperature [°C] 24.079

Number of Measurements 9

Main Coil Current [A] (167.7969 ± 0.0008)

Integrated Gradient [T/m] (-359.287 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (21.40 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (26.85 ± 0.03)

Roll [mrad] - (< ±0.3) (6.5 ± 0.2) × E-2

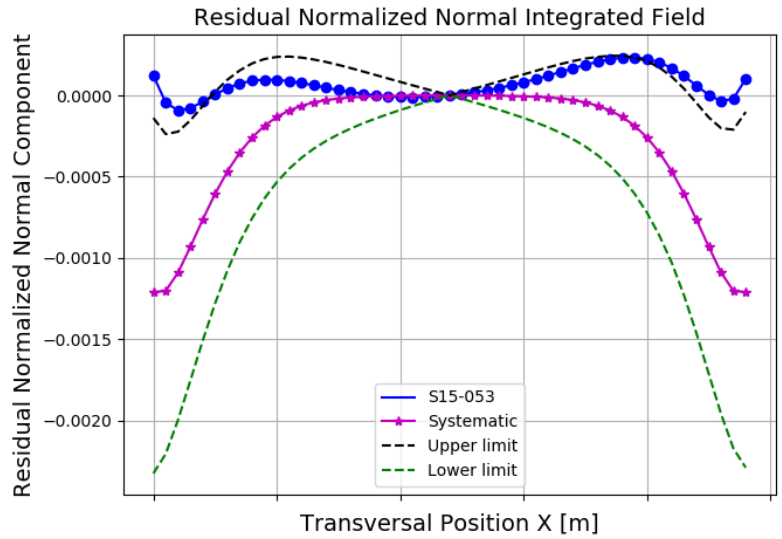
### Electric Parameters

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)

(-5.5 ± 0.4) × E-5

(1.97 ± 0.06) × E-4

2 (quadrupole)

(-3.566 ± 0.004) × E-3

(-4.474 ± 0.006) × E-3

3 (sextupole)

(1.000000 ± 0.000009)

(1.95 ± 0.05) × E-4

4

(1.71 ± 0.03) × E-4

(2.82 ± 0.06) × E-4

5

(6.41 ± 0.07) × E-4

(1.05 ± 0.07) × E-4

6

(-1.65 ± 0.08) × E-4

(1.3 ± 67.2) × E-7

7

(1.96 ± 0.06) × E-4

(-6.8 ± 0.7) × E-5

8

(2.3 ± 0.7) × E-5

(5 ± 8) × E-6

9

(-1.99 ± 0.01) × E-3

(1.09 ± 0.09) × E-4

10

(-6 ± 5) × E-6

(4.26 ± 106.07) × E-7

11

(-2.4 ± 1.0) × E-5

(-1.6 ± 0.8) × E-5

12

(8.5 ± 79.4) × E-7

(9.68 ± 846.15) × E-8

13

(-2.8 ± 0.9) × E-5

(2.1 ± 0.9) × E-5

14

(-3.2 ± 0.7) × E-5

(-3.8 ± 0.5) × E-5

15

(1.314 ± 0.009) × E-3

(-1 ± 10) × E-6

