



S15-267

## STORAGE RING MAGNET REPORT

### Results

Date 11/07/2018

Hour 08:57:32

Temperature [°C] 22.955

Number of Measurements 9

Main Coil Current [A] (167.7993 ± 0.0006)

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] (-359.545 ± 0.004)

Magnet Center Offset X [μm] - (< ±40.0) (14.19 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (28.93 ± 0.05)

Roll [mrad] - (< ±0.3) (-2.8 ± 0.5) × 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) (-1.49 ± 0.08) × E-4 (1.71 ± 0.07) × E-4

2 (quadrupole) (-2.365 ± 0.005) × E-3 (-4.822 ± 0.008) × E-3

3 (sextupole) (1.00000 ± 0.00002) (-8 ± 1) × E-5

4 (2.5 ± 0.1) × E-4 (4.66 ± 0.06) × E-4

5 (2.98 ± 0.08) × E-4 (-1.4 ± 1.0) × E-5

6 (3 ± 1) × E-5 (3.9 ± 12.1) × E-6

7 (1.1 ± 0.1) × E-4 (-3.9 ± 0.8) × E-5

8 (3 ± 1) × E-5 (2 ± 2) × E-5

9 (-2.02 ± 0.01) × E-3 (3.6 ± 0.2) × E-4

10 (6.4 ± 12.7) × E-6 (-2 ± 2) × E-5

11 (-2 ± 1) × E-5 (-4.9 ± 12.2) × E-6

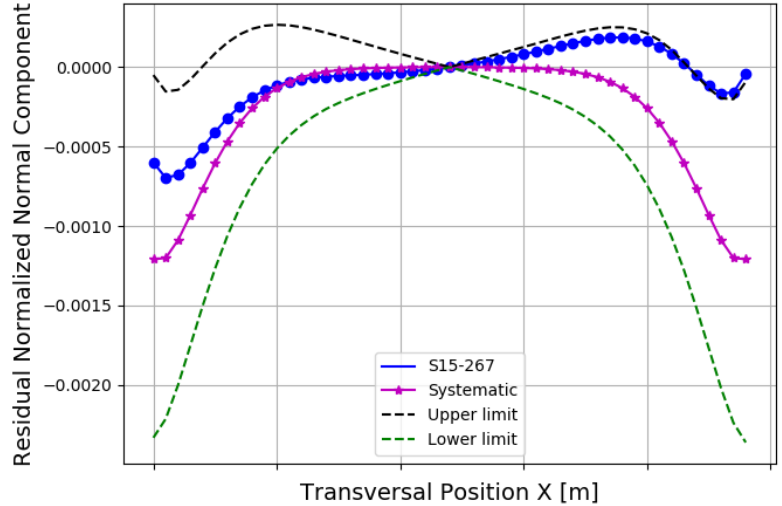
12 (-1.2 ± 1.0) × E-5 (-6.1 ± 13.3) × E-6

13 (-3 ± 2) × E-5 (2.4 ± 0.5) × E-5

14 (-2 ± 1) × E-5 (-6 ± 1) × E-5

15 (1.35 ± 0.01) × E-3 (-6 ± 1) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

