



# S15-168

## STORAGE RING MAGNET REPORT

### Results

Date 04/07/2018

Hour 08:48:26

Temperature [°C] 23.628

Number of Measurements 9

Main Coil Current [A] (167.7984 ± 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] (-359.760 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (11.95 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (25.50 ± 0.06)

Roll [mrad] - (< ±0.3) (-5 ± 3) × E-3

### 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) (-5.81 ± 0.04) × E-4 (-1.41 ± 0.09) × E-4

2 (quadrupole) (-1.992 ± 0.005) × E-3 (-4.25 ± 0.01) × E-3

3 (sextupole) (1.00000 ± 0.00001) (-1.6 ± 0.9) × E-5

4 (1.73 ± 0.09) × E-4 (-1.15 ± 0.09) × E-4

5 (8.5 ± 0.9) × E-5 (6 ± 1) × E-5

6 (-6 ± 1) × E-5 (-9.4 ± 10.9) × E-6

7 (4 ± 1) × E-5 (-4 ± 1) × E-5

8 (6.12 ± 110.33) × E-7 (5 ± 1) × E-5

9 (-1.977 ± 0.007) × E-3 (1.6 ± 0.1) × E-4

10 (1.8 ± 1.0) × E-5 (7.3 ± 10.5) × E-6

11 (-1 ± 1) × E-5 (-2 ± 1) × E-5

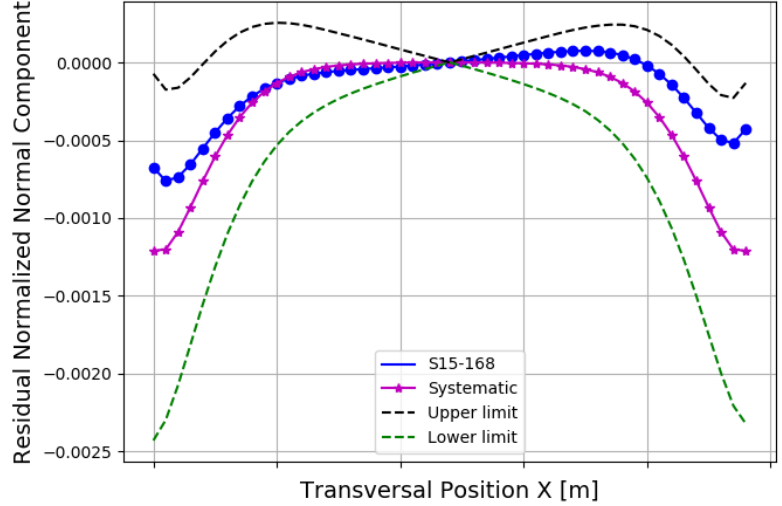
12 (8.8 ± 89.0) × E-7 (-2 ± 10) × E-6

13 (5.7 ± 95.2) × E-7 (2 ± 1) × E-5

14 (-1 ± 1) × E-5 (-6.2 ± 0.9) × E-5

15 (1.311 ± 0.006) × E-3 (-1 ± 1) × E-5

### Residual Normalized Normal Integrated Field



### Residual Normalized Skew Integrated Field

