



# S15-193

## STORAGE RING MAGNET REPORT

### Results

Date 10/07/2018

Hour 15:12:41

Temperature [°C] 23.725

Number of Measurements 9

Main Coil Current [A] (167.798 ± 0.003)

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] (-359.697 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (11.47 ± 0.05)

Magnet Center Offset Y [μm] - (< ±40.0) (30.44 ± 0.07)

Roll [mrad] - (< ±0.3) (-9.7 ± 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

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) (-1.046 ± 0.006) × E-3 (-8.9 ± 11.4) × E-6

2 (quadrupole) (-1.912 ± 0.009) × E-3 (-5.07 ± 0.01) × E-3

3 (sextupole) (1.00000 ± 0.00001) (-2.9 ± 0.2) × E-4

4 (-9 ± 1) × E-5 (3.2 ± 0.1) × E-4

5 (2.5 ± 0.1) × E-4 (-6.4 ± 20.1) × E-6

6 (-2 ± 1) × E-5 (-2 ± 1) × E-5

7 (1.2 ± 0.2) × E-4 (-6 ± 1) × E-5

8 (1.0 ± 14.7) × E-6 (7.6 ± 17.1) × E-6

9 (-2.00 ± 0.01) × E-3 (3.7 ± 0.2) × E-4

10 (8.2 ± 21.8) × E-6 (-6.3 ± 20.7) × E-6

11 (1 ± 3) × E-5 (5.2 ± 14.0) × E-6

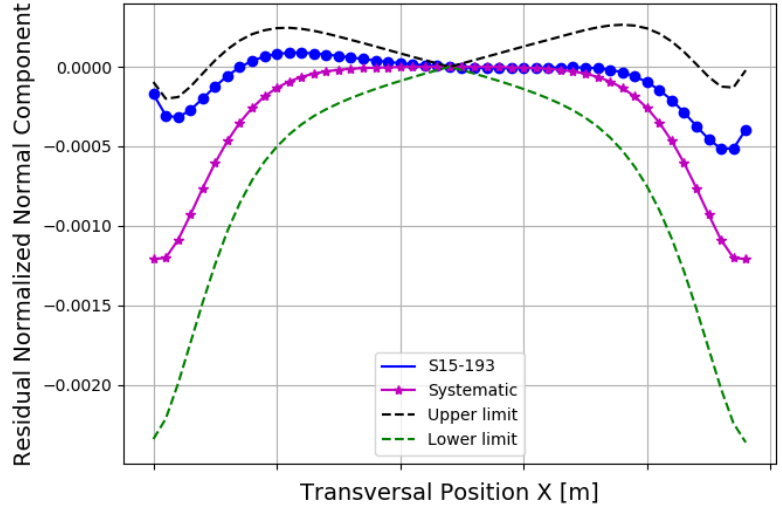
12 (-6.3 ± 19.1) × E-6 (-4.8 ± 20.6) × E-6

13 (-2.2 ± 1.0) × E-5 (5 ± 2) × E-5

14 (-4.4 ± 21.0) × E-6 (-1 ± 1) × E-5

15 (1.355 ± 0.010) × E-3 (-7 ± 2) × E-5

### Residual Normalized Normal Integrated Field



### Residual Normalized Skew Integrated Field

