



# S15-181

## STORAGE RING MAGNET REPORT

### Results

Date 29/08/2018

Hour 12:10:44

Temperature [°C] 23.46

Number of Measurements 9

Main Coil Current [A] (167.798 ± 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] (-359.902 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (19.40 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (31.50 ± 0.05)

Roll [mrad] - (< ±0.3) (2.2 ± 0.3) × 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) (-8.27 ± 0.04) × E-4 (10 ± 2) × E-5

2 (quadrupole) (-3.234 ± 0.005) × E-3 (-5.250 ± 0.009) × E-3

3 (sextupole) (1.000000 ± 0.000007) (6.5 ± 0.8) × E-5

4 (-7.4 ± 0.3) × E-5 (2.36 ± 0.06) × E-4

5 (6.6 ± 0.3) × E-5 (1.9 ± 0.7) × E-5

6 (-5.3 ± 0.4) × E-5 (1.6 ± 0.7) × E-5

7 (-3.5 ± 45.9) × E-7 (-3 ± 5) × E-6

8 (2.3 ± 0.7) × E-5 (4.2 ± 0.8) × E-5

9 (-1.866 ± 0.004) × E-3 (2.44 ± 0.05) × E-4

10 (-1.1 ± 0.9) × E-5 (-7 ± 10) × E-6

11 (-2 ± 1) × E-5 (3.4 ± 16.1) × E-6

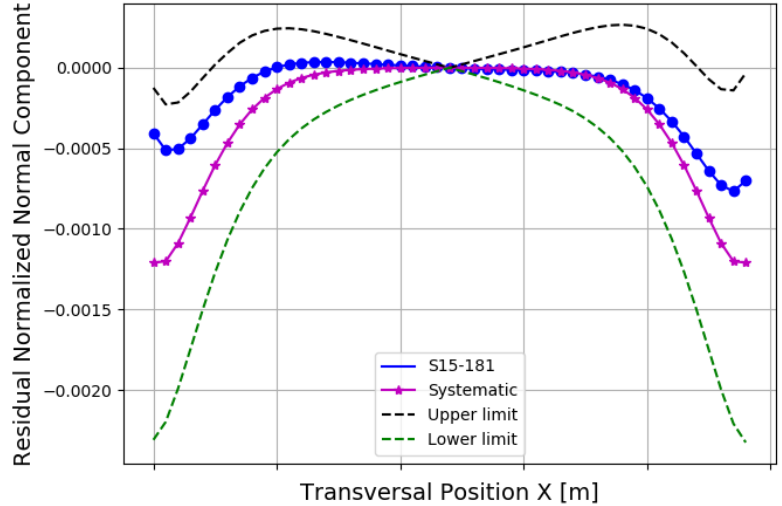
12 (-3 ± 7) × E-6 (-1.3 ± 0.7) × E-5

13 (-8 ± 7) × E-6 (-7 ± 7) × E-6

14 (-2.9 ± 0.4) × E-5 (-5.3 ± 0.7) × E-5

15 (1.271 ± 0.007) × E-3 (-9.1 ± 1.0) × E-5

### Residual Normalized Normal Integrated Field



### Residual Normalized Skew Integrated Field

