



# S15-230

## STORAGE RING MAGNET REPORT

### Results

Date 11/07/2018

Hour 11:34:11

Temperature [°C] 22.928

Number of Measurements 9

Main Coil Current [A] (167.7987 ± 0.0004)

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] (-359.937 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (9.87 ± 0.05)

Magnet Center Offset Y [μm] - (< ±40.0) (27.58 ± 0.06)

Roll [mrad] - (< ±0.3) (-5.2 ± 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) (-2.57 ± 0.06) × E-4 (-5.74 ± 0.05) × E-4

2 (quadrupole) (-1.646 ± 0.008) × E-3 (-4.597 ± 0.010) × E-3

3 (sextupole) (1.00000 ± 0.00001) (-1.56 ± 0.09) × E-4

4 (4.7 ± 0.1) × E-4 (2.1 ± 0.1) × E-4

5 (1.1 ± 0.2) × E-4 (-1.2 ± 1.0) × E-5

6 (2.6 ± 13.7) × E-6 (-2.6 ± 1.0) × E-5

7 (6 ± 2) × E-5 (2.1 ± 1.0) × E-5

8 (1.0 ± 0.8) × E-5 (4 ± 1) × E-5

9 (-2.01 ± 0.02) × E-3 (3.8 ± 0.1) × E-4

10 (-1 ± 2) × E-5 (-4 ± 2) × E-5

11 (-7.6 ± 13.7) × E-6 (3.2 ± 15.0) × E-6

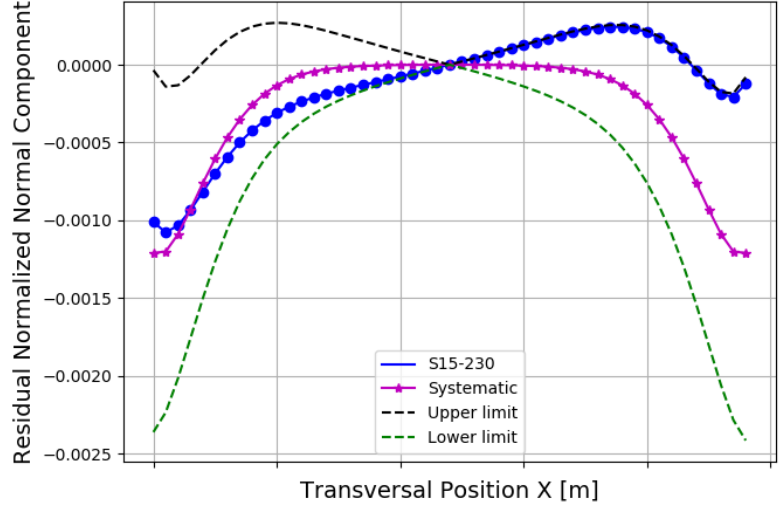
12 (-2 ± 2) × E-5 (2.6 ± 10.4) × E-6

13 (9.5 ± 19.1) × E-6 (-1.3 ± 12.1) × E-6

14 (-4.8 ± 17.4) × E-6 (-5 ± 1) × E-5

15 (1.27 ± 0.02) × E-3 (-7 ± 2) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

