



S15-274

## STORAGE RING MAGNET REPORT

### Results

Date 17/07/2018

Hour 16:10:28

Temperature [°C] 23.604

Number of Measurements 9

Main Coil Current [A] (167.7973 ± 0.0007)

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] (-359.516 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (11.76 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (19.3 ± 0.2)

Roll [mrad] - (< ±0.3) (-1.1 ± 0.9) × 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) (-6.81 ± 0.03) × E-4 (-6.1 ± 0.3) × E-4

2 (quadrupole) (-1.959 ± 0.005) × E-3 (-3.22 ± 0.03) × E-3

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

4 (4.12 ± 0.08) × E-4 (-5.5 ± 0.3) × E-4

5 (3.1 ± 0.1) × E-4 (-4 ± 2) × E-5

6 (1.24 ± 0.09) × E-4 (-5 ± 3) × E-5

7 (1.7 ± 0.2) × E-4 (-1 ± 3) × E-5

8 (3 ± 1) × E-5 (8 ± 3) × E-5

9 (-2.02 ± 0.01) × E-3 (4.2 ± 0.3) × E-4

10 (-3 ± 1) × E-5 (3 ± 3) × E-5

11 (3 ± 2) × E-5 (-3 ± 3) × E-5

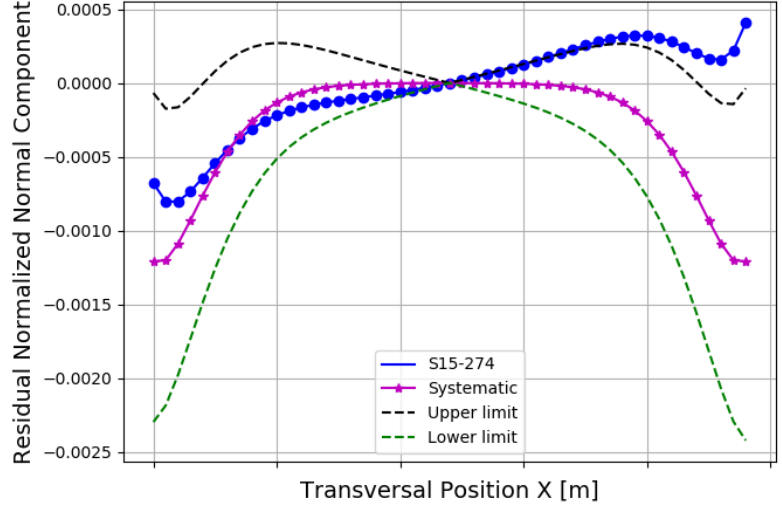
12 (6.5 ± 18.0) × E-6 (2 ± 2) × E-5

13 (-2.3 ± 0.8) × E-5 (1 ± 3) × E-5

14 (-6.3 ± 19.3) × E-6 (-5 ± 2) × E-5

15 (1.40 ± 0.02) × E-3 (-1 ± 2) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

