



S15-281

## STORAGE RING MAGNET REPORT

### Results

Date 23/07/2018

Hour 11:43:00

Temperature [°C] 23.676

Number of Measurements 9

Main Coil Current [A] (167.7993 ± 0.0009)

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] (-359.672 ± 0.005)

Magnet Center Offset X [μm] - (< ±40.0) (3.8 ± 0.1)

Magnet Center Offset Y [μm] - (< ±40.0) (28.5 ± 0.2)

Roll [mrad] - (< ±0.3) (-5 ± 1) × 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) (-1.56 ± 0.05) × E-4 (5.7 ± 0.3) × E-4

2 (quadrupole) (-6.3 ± 0.2) × E-4 (-4.75 ± 0.03) × E-3

3 (sextupole) (1.00000 ± 0.00002) (-1.4 ± 0.3) × E-4

4 (5.4 ± 0.3) × E-4 (2.6 ± 0.2) × E-4

5 (-2.4 ± 30.3) × E-6 (-8 ± 4) × E-5

6 (4.7 ± 23.1) × E-6 (-4 ± 3) × E-5

7 (4 ± 2) × E-5 (4 ± 3) × E-5

8 (6.2 ± 32.3) × E-6 (1.5 ± 24.8) × E-6

9 (-1.95 ± 0.03) × E-3 (4.8 ± 0.3) × E-4

10 (5.1 ± 26.2) × E-6 (-2 ± 3) × E-5

11 (7.1 ± 36.8) × E-6 (-2 ± 3) × E-5

12 (-7.4 ± 31.6) × E-6 (1 ± 3) × E-5

13 (-2 ± 3) × E-5 (2 ± 3) × E-5

14 (-2 ± 3) × E-5 (-3 ± 3) × E-5

15 (1.35 ± 0.03) × E-3 (1.2 ± 0.4) × E-4

