



# S15-152

## STORAGE RING MAGNET REPORT

### Results

Date 07/07/2018

Hour 12:42:39

Temperature [°C] 23.703

Number of Measurements 9

Main Coil Current [A] (167.798 ± 0.001)

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] (-359.274 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (12.59 ± 0.06)

Magnet Center Offset Y [μm] - (< ±40.0) (23.91 ± 0.06)

Roll [mrad] - (< ±0.3) (-5.1 ± 0.4) × 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) (-7.76 ± 0.04) × E-4 (-2.08 ± 0.09) × E-4

2 (quadrupole) (-2.098 ± 0.010) × E-3 (-3.99 ± 0.01) × E-3

3 (sextupole) (1.00000 ± 0.00001) (-1.5 ± 0.1) × E-4

4 (2.42 ± 0.10) × E-4 (-9 ± 1) × E-5

5 (1.8 ± 0.1) × E-4 (5 ± 2) × E-5

6 (9 ± 1) × E-5 (-1 ± 2) × E-5

7 (10 ± 1) × E-5 (-2 ± 2) × E-5

8 (5 ± 1) × E-5 (5 ± 1) × E-5

9 (-1.96 ± 0.01) × E-3 (2.9 ± 0.1) × E-4

10 (-2.1 ± 12.9) × E-6 (3.9 ± 0.7) × E-5

11 (5.6 ± 17.4) × E-6 (-7 ± 10) × E-6

12 (-1 ± 1) × E-5 (-7.2 ± 17.7) × E-6

13 (-8.9 ± 15.4) × E-6 (-1 ± 1) × E-5

14 (-4 ± 1) × E-5 (-5 ± 2) × E-5

15 (1.31 ± 0.01) × E-3 (-2 ± 1) × E-5

