



S15-142

## STORAGE RING MAGNET REPORT

### Results

Date 27/07/2018

Hour 15:00:14

Temperature [°C] 23.307

Number of Measurements 9

Main Coil Current [A] (167.7985 ± 0.0008)

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] (-360.455 ± 0.007)

Magnet Center Offset X [μm] - (< ±40.0) (13.20 ± 0.09)

Magnet Center Offset Y [μm] - (< ±40.0) (21.6 ± 0.2)

Roll [mrad] - (< ±0.3) (2 ± 1) × E-2

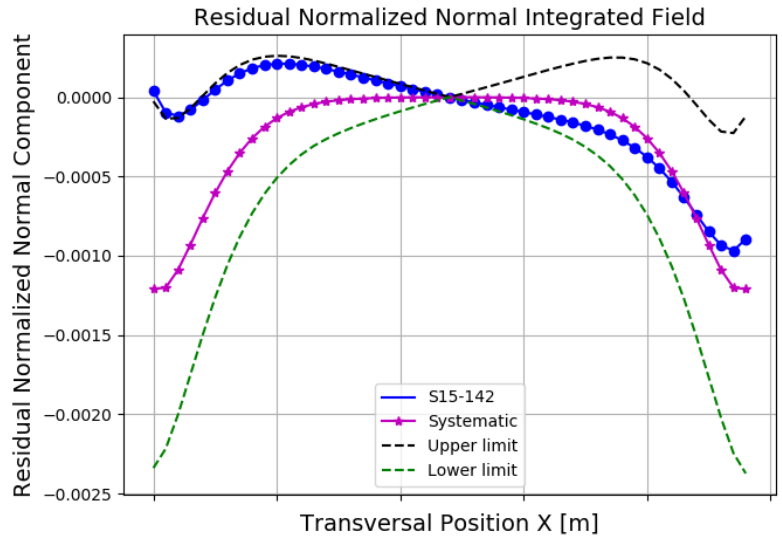
### Electric Parameters

Inductance [mH] 3.157

Voltage [V] 6.0106

Resistance [mΩ] 35.82

Main Coil Number of Turns 11.25



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>]

n

1 (dipole)

(-1.41 ± 0.01) × E-3

(10 ± 4) × E-5

2 (quadrupole)

(-2.20 ± 0.01) × E-3

(-3.59 ± 0.03) × E-3

3 (sextupole)

(1.00000 ± 0.00003)

(6 ± 4) × E-5

4

(-4.0 ± 0.2) × E-4

(-1.0 ± 0.4) × E-4

5

(10 ± 4) × E-5

(1.3 ± 0.5) × E-4

6

(-5 ± 4) × E-5

(-2 ± 3) × E-5

7

(7 ± 2) × E-5

(-4 ± 3) × E-5

8

(-2 ± 2) × E-5

(3 ± 2) × E-5

9

(-1.85 ± 0.03) × E-3

(6.6 ± 0.3) × E-4

10

(4 ± 2) × E-5

(2 ± 3) × E-5

11

(1.8 ± 36.2) × E-6

(8.2 ± 31.4) × E-6

12

(2 ± 2) × E-5

(3.3 ± 48.3) × E-6

13

(1 ± 3) × E-5

(2 ± 3) × E-5

14

(-5 ± 3) × E-5

(-8.7 ± 24.4) × E-6

15

(1.25 ± 0.03) × E-3

(-8 ± 5) × E-5

