



S15-166

STORAGE RING MAGNET REPORT

Results

Date 07/08/2018

Hour 11:59:33

Temperature [°C] 23.629

Number of Measurements 9

Main Coil Current [A] (167.798 ± 0.005)

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] (-360.234 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (14.39 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (24.77 ± 0.02)

Roll [mrad] - (< ±0.3) (3.8 ± 0.1) × 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⁽²⁻ⁿ⁾]

Normalized
Skew
Multipoles
x=12.0 mm
[T.m⁽²⁻ⁿ⁾]

1 (dipole) (-1.66 ± 0.03) × E-4 (-8.13 ± 0.04) × E-4

2 (quadrupole) (-2.399 ± 0.003) × E-3 (-4.128 ± 0.003) × E-3

3 (sextupole) (1.000000 ± 0.000007) (1.15 ± 0.03) × E-4

4 (2.47 ± 0.04) × E-4 (1.64 ± 0.03) × E-4

5 (1.52 ± 0.04) × E-4 (2.63 ± 0.05) × E-4

6 (9 ± 4) × E-6 (-9 ± 5) × E-6

7 (4.6 ± 0.2) × E-5 (-6.5 ± 0.4) × E-5

8 (2.9 ± 0.3) × E-5 (1.1 ± 0.5) × E-5

9 (-1.997 ± 0.004) × E-3 (2.3 ± 0.7) × E-5

10 (-5 ± 3) × E-6 (6 ± 6) × E-6

11 (-6 ± 3) × E-6 (-2.2 ± 0.5) × E-5

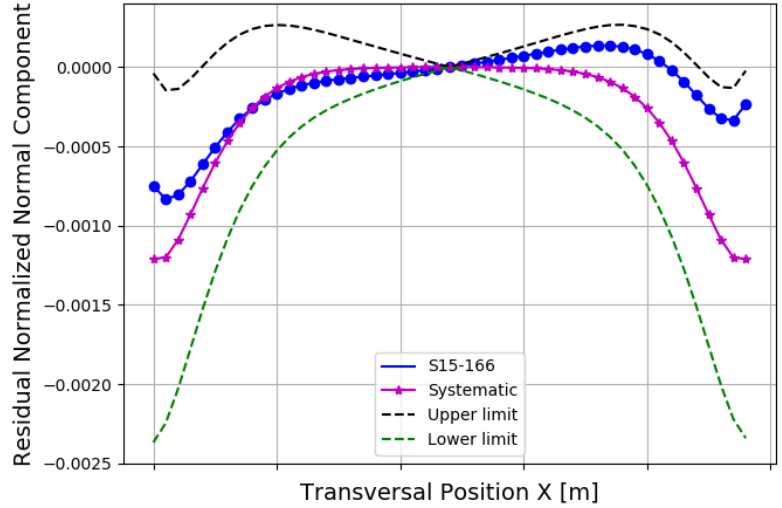
12 (-5 ± 6) × E-6 (-2 ± 5) × E-6

13 (-8 ± 4) × E-6 (1.8 ± 0.7) × E-5

14 (-1.9 ± 0.5) × E-5 (-3.8 ± 0.4) × E-5

15 (1.321 ± 0.004) × E-3 (1.9 ± 0.6) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

