



S15-194

STORAGE RING MAGNET REPORT

Results

Date 31/08/2018

Hour 09:27:04

Temperature [°C] 23.38

Number of Measurements 9

Main Coil Current [A] (167.7980 ± 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] (-359.783 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (7.12 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (27.84 ± 0.07)

Roll [mrad] - (< ±0.3) (-5.7 ± 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⁽²⁻ⁿ⁾]

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

1 (dipole) (-5.50 ± 0.05) × E-4 (3.2 ± 0.1) × E-4

2 (quadrupole) (-1.187 ± 0.004) × E-3 (-4.64 ± 0.01) × E-3

3 (sextupole) (1.000000 ± 0.000009) (-1.7 ± 0.1) × E-4

4 (-6 ± 3) × E-6 (3 ± 1) × E-5

5 (1.65 ± 0.05) × E-4 (1.06 ± 0.09) × E-4

6 (-4.5 ± 0.7) × E-5 (2.0 ± 0.7) × E-5

7 (3.5 ± 0.6) × E-5 (-6 ± 1) × E-5

8 (-1.1 ± 0.6) × E-5 (5.0 ± 0.8) × E-5

9 (-1.862 ± 0.009) × E-3 (2.9 ± 0.1) × E-4

10 (1.0 ± 0.5) × E-5 (-3 ± 6) × E-6

11 (-9 ± 7) × E-6 (3 ± 1) × E-5

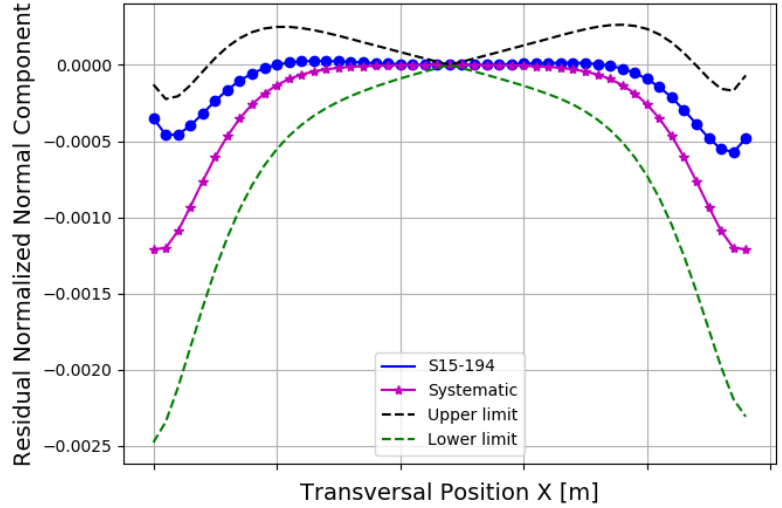
12 (-1 ± 1) × E-5 (-1.3 ± 1.0) × E-5

13 (-6.3 ± 75.3) × E-7 (-7.6 ± 73.5) × E-7

14 (-4 ± 8) × E-6 (-3.3 ± 0.8) × E-5

15 (1.254 ± 0.008) × E-3 (-1.12 ± 0.09) × E-4

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

