



S15-223

STORAGE RING MAGNET REPORT

Results

Date 25/07/2018

Hour 09:17:56

Temperature [°C] 23.718

Number of Measurements 9

Main Coil Current [A] (167.7984 ± 0.0007)

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] (-359.818 ± 0.005)

Magnet Center Offset X [μm] - (< ±40.0) (14.3 ± 0.1)

Magnet Center Offset Y [μm] - (< ±40.0) (28.8 ± 0.1)

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⁽²⁻ⁿ⁾]

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

1 (dipole) (-1.325 ± 0.006) × E-3 (6 ± 3) × E-5

2 (quadrupole) (-2.39 ± 0.02) × E-3 (-4.80 ± 0.02) × E-3

3 (sextupole) (1.00000 ± 0.00002) (1.4 ± 0.4) × E-4

4 (3.2 ± 0.2) × E-4 (1.1 ± 0.2) × E-4

5 (1.0 ± 0.1) × E-4 (-1 ± 2) × E-5

6 (7.0 ± 35.6) × E-6 (-1 ± 3) × E-5

7 (1.1 ± 0.2) × E-4 (-2 ± 2) × E-5

8 (3 ± 3) × E-5 (3 ± 3) × E-5

9 (-1.99 ± 0.02) × E-3 (5.0 ± 0.3) × E-4

10 (-2 ± 2) × E-5 (-4.1 ± 25.3) × E-6

11 (4 ± 3) × E-5 (-1 ± 3) × E-5

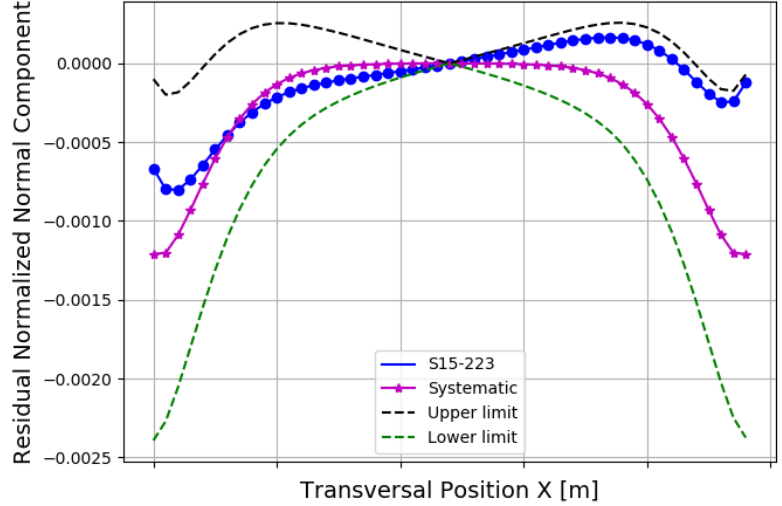
12 (-5 ± 3) × E-5 (-1.7 ± 18.8) × E-6

13 (-1 ± 4) × E-5 (2 ± 3) × E-5

14 (-2 ± 3) × E-5 (-5 ± 3) × E-5

15 (1.35 ± 0.01) × E-3 (7.0 ± 36.7) × E-6

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

