



S15-239

STORAGE RING MAGNET REPORT

Results

Date 13/07/2018

Hour 12:06:10

Temperature [°C] 22.824

Number of Measurements 9

Main Coil Current [A] (167.797 ± 0.004)

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] (-360.135 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (20.09 ± 0.04)

Magnet Center Offset Y [μm] - (< ±40.0) (22.2 ± 0.2)

Roll [mrad] - (< ±0.3) (-1 ± 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) (-7.15 ± 0.06) × E-4 (-2.3 ± 0.3) × E-4

2 (quadrupole) (-3.348 ± 0.007) × E-3 (-3.70 ± 0.03) × E-3

3 (sextupole) (1.000000 ± 0.000007) (-4 ± 3) × E-5

4 (1.5 ± 0.1) × E-4 (-1.7 ± 0.3) × E-4

5 (1.3 ± 0.1) × E-4 (-1.4 ± 0.3) × E-4

6 (4 ± 2) × E-5 (-4.1 ± 20.8) × E-6

7 (7 ± 1) × E-5 (1 ± 3) × E-5

8 (1 ± 3) × E-5 (8 ± 3) × E-5

9 (-2.04 ± 0.02) × E-3 (4.7 ± 0.3) × E-4

10 (4 ± 1) × E-5 (2 ± 3) × E-5

11 (1 ± 2) × E-5 (-3 ± 3) × E-5

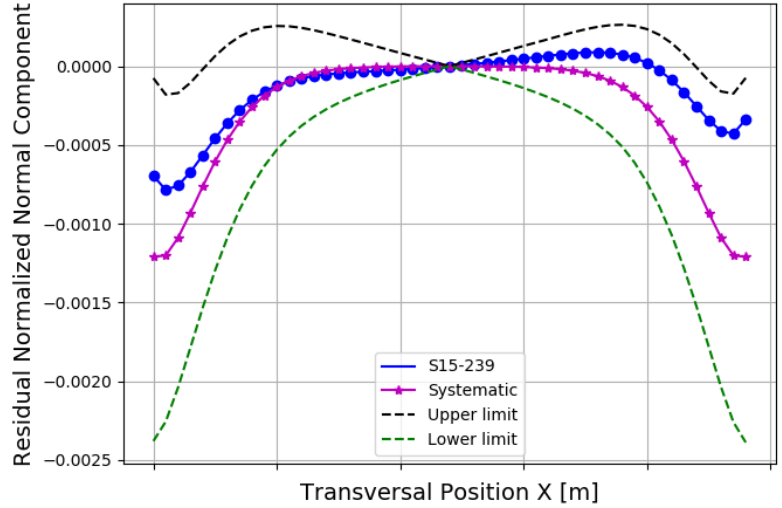
12 (-4 ± 2) × E-5 (-1 ± 2) × E-5

13 (-8.6 ± 17.1) × E-6 (2 ± 3) × E-5

14 (-3 ± 2) × E-5 (-5 ± 2) × E-5

15 (1.32 ± 0.02) × E-3 (3.6 ± 21.1) × E-6

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

