



S15-242

STORAGE RING MAGNET REPORT

Results

Date 11/07/2018

Hour 10:16:47

Temperature [°C] 22.93

Number of Measurements 9

Main Coil Current [A] (167.7987 ± 0.0006)

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] (-359.690 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (14.90 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (25.81 ± 0.08)

Roll [mrad] - (< ±0.3) (-3.7 ± 0.5) × 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) (-4.21 ± 0.07) × E-4 (-2.9 ± 0.1) × E-4

2 (quadrupole) (-2.483 ± 0.004) × E-3 (-4.30 ± 0.01) × E-3

3 (sextupole) (1.00000 ± 0.00001) (-1.1 ± 0.1) × E-4

4 (-5.4 ± 0.5) × E-5 (-2 ± 2) × E-5

5 (1.33 ± 0.08) × E-4 (1.23 ± 0.08) × E-4

6 (-1.23 ± 0.09) × E-4 (-3 ± 1) × E-5

7 (6.7 ± 0.9) × E-5 (-3 ± 1) × E-5

8 (-2.7 ± 0.8) × E-5 (4.3 ± 1.0) × E-5

9 (-2.03 ± 0.01) × E-3 (2.21 ± 0.09) × E-4

10 (2.2 ± 0.9) × E-5 (-2 ± 1) × E-5

11 (2 ± 1) × E-5 (-2 ± 1) × E-5

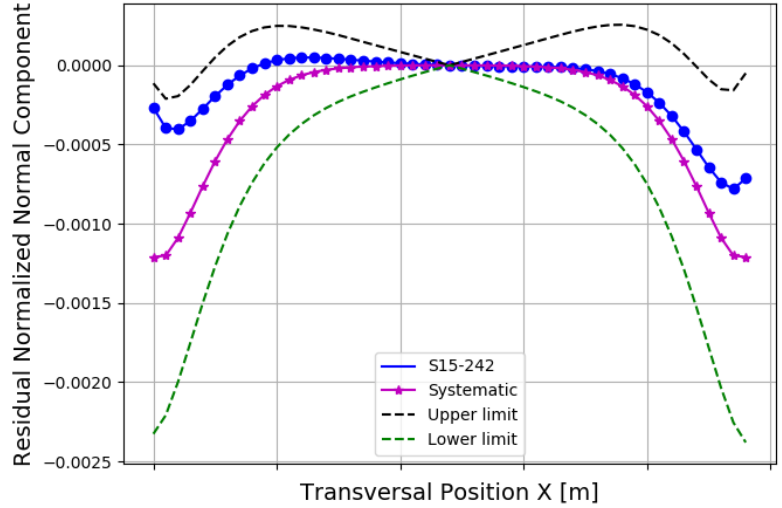
12 (-3 ± 1) × E-5 (1.8 ± 0.9) × E-5

13 (-1.4 ± 13.6) × E-6 (2 ± 2) × E-5

14 (-9 ± 8) × E-6 (-3 ± 1) × E-5

15 (1.320 ± 0.010) × E-3 (3 ± 1) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

