



S15-237

STORAGE RING MAGNET REPORT

Results

Date 12/07/2018

Hour 16:48:25

Temperature [°C] 23.153

Number of Measurements 9

Main Coil Current [A] (167.7976 ± 0.0008)

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] (-359.482 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (10.77 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (23.48 ± 0.05)

Roll [mrad] - (< ±0.3) (-8 ± 5) × E-3

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) (-9.35 ± 0.04) × E-4 (3.98 ± 0.05) × E-4

2 (quadrupole) (-1.796 ± 0.005) × E-3 (-3.913 ± 0.008) × E-3

3 (sextupole) (1.000000 ± 0.000010) (-2 ± 1) × E-5

4 (2.57 ± 0.07) × E-4 (-1.94 ± 0.10) × E-4

5 (-3 ± 1) × E-5 (1.3 ± 0.1) × E-4

6 (-1.3 ± 0.1) × E-4 (2.8 ± 14.7) × E-6

7 (4 ± 1) × E-5 (-6 ± 1) × E-5

8 (8 ± 10) × E-6 (6.3 ± 0.8) × E-5

9 (-2.05 ± 0.01) × E-3 (3.8 ± 0.2) × E-4

10 (-3.4 ± 0.8) × E-5 (-3.9 ± 0.9) × E-5

11 (-1.4 ± 0.9) × E-5 (-1 ± 2) × E-5

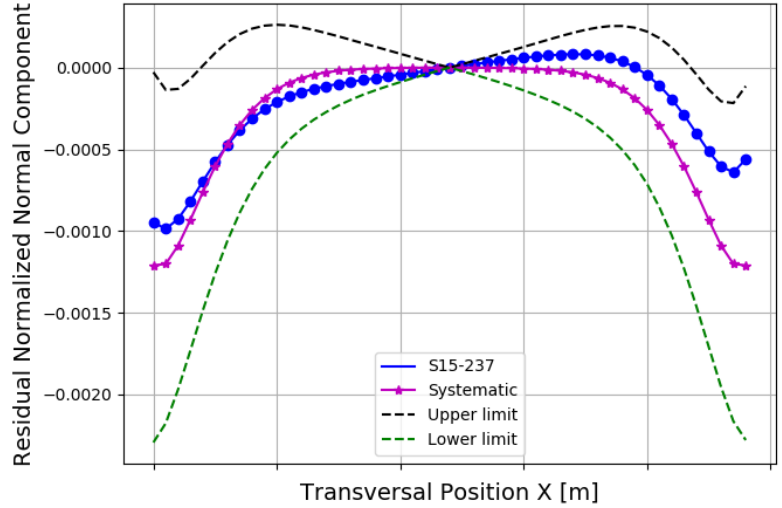
12 (4 ± 1) × E-5 (-3.9 ± 10.6) × E-6

13 (-3.7 ± 17.3) × E-6 (-5.3 ± 22.5) × E-6

14 (5 ± 1) × E-5 (-4 ± 1) × E-5

15 (1.310 ± 0.008) × E-3 (4 ± 2) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

