



S15-173

STORAGE RING MAGNET REPORT

Results

Date 04/07/2018

Hour 11:55:39

Temperature [°C] 23.661

Number of Measurements 9

Main Coil Current [A] (167.7979 ± 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] (-359.615 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (10.17 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (29.03 ± 0.06)

Roll [mrad] - (< ±0.3) (-4.5 ± 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) (-8.44 ± 0.05) × E-4 (-3.34 ± 0.08) × E-4

2 (quadrupole) (-1.695 ± 0.005) × E-3 (-4.84 ± 0.01) × E-3

3 (sextupole) (1.00000 ± 0.00001) (-1.3 ± 0.1) × E-4

4 (4.96 ± 0.09) × E-4 (3.8 ± 1.0) × E-5

5 (3.05 ± 0.08) × E-4 (-1.43 ± 0.09) × E-4

6 (-1.7 ± 0.1) × E-4 (8 ± 8) × E-6

7 (4.5 ± 0.9) × E-5 (4.1 ± 0.8) × E-5

8 (4.2 ± 1.0) × E-5 (2.0 ± 13.0) × E-6

9 (-1.924 ± 0.010) × E-3 (1.7 ± 0.1) × E-4

10 (-5.3 ± 10.1) × E-6 (1 ± 8) × E-6

11 (-2 ± 1) × E-5 (-4 ± 10) × E-6

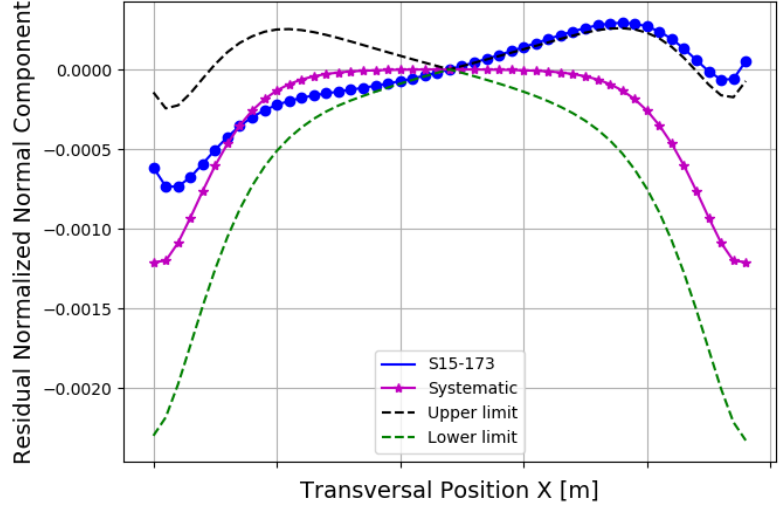
12 (-9.0 ± 11.9) × E-6 (-1.4 ± 0.6) × E-5

13 (2 ± 1) × E-5 (7 ± 9) × E-6

14 (-1.9 ± 0.6) × E-5 (-3 ± 2) × E-5

15 (1.288 ± 0.008) × E-3 (-1 ± 1) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

