



S15-220

STORAGE RING MAGNET REPORT

Results

Date 15/08/2018

Hour 16:35:25

Temperature [°C] 23.169

Number of Measurements 9

Main Coil Current [A] (167.797 ± 0.002)

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] (-360.158 ± 0.004)

Magnet Center Offset X [μm] - (< ±40.0) (14.68 ± 0.05)

Magnet Center Offset Y [μm] - (< ±40.0) (23.30 ± 0.08)

Roll [mrad] - (< ±0.3) (9.0 ± 0.7) × 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) (4.42 ± 0.05) × E-4 (-4.4 ± 0.1) × E-4

2 (quadrupole) (-2.447 ± 0.009) × E-3 (-3.88 ± 0.01) × E-3

3 (sextupole) (1.00000 ± 0.00001) (2.7 ± 0.2) × E-4

4 (3.10 ± 0.09) × E-4 (8 ± 2) × E-5

5 (1.9 ± 0.2) × E-4 (5 ± 2) × E-5

6 (-6 ± 2) × E-5 (-1 ± 1) × E-5

7 (3 ± 2) × E-5 (-7.9 ± 17.2) × E-6

8 (5 ± 2) × E-5 (2 ± 1) × E-5

9 (-2.03 ± 0.02) × E-3 (2.3 ± 0.2) × E-4

10 (4.5 ± 15.9) × E-6 (3.8 ± 16.5) × E-6

11 (-2 ± 2) × E-5 (7.8 ± 17.2) × E-6

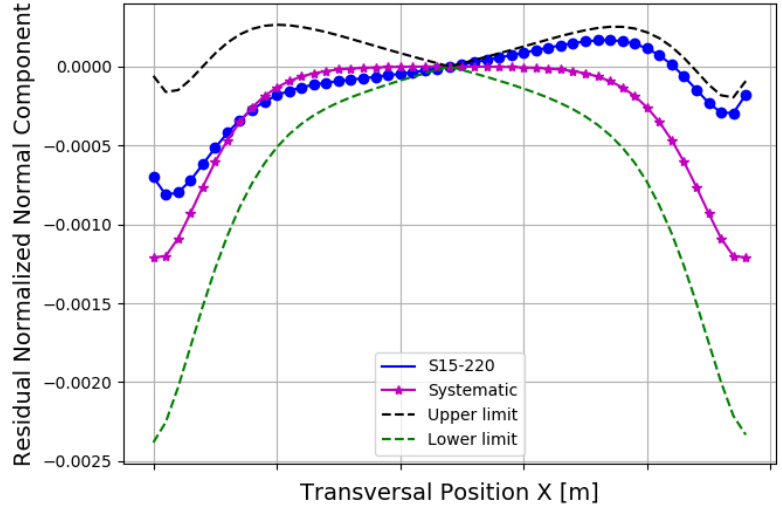
12 (-1 ± 2) × E-5 (3 ± 8) × E-6

13 (-3 ± 7) × E-6 (1 ± 2) × E-5

14 (-2 ± 2) × E-5 (-2 ± 1) × E-5

15 (1.39 ± 0.01) × E-3 (3 ± 2) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

