



S15-209

STORAGE RING MAGNET REPORT

Results

Date 01/08/2018

Hour 15:18:22

Temperature [°C] 23.66

Number of Measurements 9

Main Coil Current [A] (167.7993 ± 0.0010)

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] (-359.789 ± 0.004)

Magnet Center Offset X [μm] - (< ±40.0) (13.7 ± 0.2)

Magnet Center Offset Y [μm] - (< ±40.0) (27.2 ± 0.1)

Roll [mrad] - (< ±0.3) (-7 ± 2) × 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) (-2.66 ± 0.10) × E-4 (-4.7 ± 0.3) × E-4

2 (quadrupole) (-2.28 ± 0.03) × E-3 (-4.53 ± 0.02) × E-3

3 (sextupole) (1.00000 ± 0.00002) (-2.0 ± 0.6) × E-4

4 (3.9 ± 0.4) × E-4 (2 ± 2) × E-5

5 (3.3 ± 0.3) × E-4 (2.2 ± 0.4) × E-4

6 (2.0 ± 0.5) × E-4 (3 ± 3) × E-5

7 (1.1 ± 0.3) × E-4 (-9 ± 3) × E-5

8 (5 ± 5) × E-5 (4.5 ± 44.0) × E-6

9 (-1.97 ± 0.05) × E-3 (8.4 ± 0.6) × E-4

10 (-2 ± 3) × E-5 (9 ± 3) × E-5

11 (-7.3 ± 35.4) × E-6 (-8 ± 5) × E-5

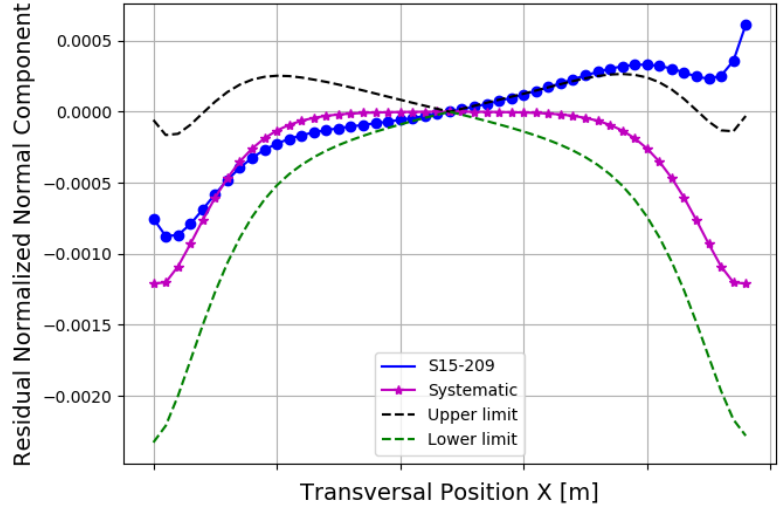
12 (3 ± 5) × E-5 (-2.0 ± 29.9) × E-6

13 (-5 ± 3) × E-5 (2 ± 5) × E-5

14 (3 ± 4) × E-5 (-3 ± 3) × E-5

15 (1.52 ± 0.05) × E-3 (8 ± 6) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

