



S15-098

STORAGE RING MAGNET REPORT

Results

Date 31/07/2018

Hour 11:52:16

Temperature [°C] 23.456

Number of Measurements 9

Main Coil Current [A] (167.7997 ± 0.0007)

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] (-360.044 ± 0.005)

Magnet Center Offset X [μm] - (< ±40.0) (8.60 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (20.48 ± 0.08)

Roll [mrad] - (< ±0.3) (6.5 ± 0.6) × 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) (-1.173 ± 0.004) × E-3 (-1.95 ± 0.10) × E-4

2 (quadrupole) (-1.433 ± 0.004) × E-3 (-3.41 ± 0.01) × E-3

3 (sextupole) (1.00000 ± 0.00002) (1.9 ± 0.2) × E-4

4 (3.7 ± 0.1) × E-4 (-4 ± 2) × E-5

5 (8 ± 2) × E-5 (2 ± 1) × E-5

6 (9.7 ± 0.9) × E-5 (-1 ± 1) × E-5

7 (3 ± 2) × E-5 (-2 ± 2) × E-5

8 (1.4 ± 0.8) × E-5 (1 ± 1) × E-5

9 (-1.88 ± 0.03) × E-3 (5.3 ± 0.2) × E-4

10 (-1 ± 1) × E-5 (-8.7 ± 12.3) × E-6

11 (-9.4 ± 11.5) × E-6 (-2 ± 2) × E-5

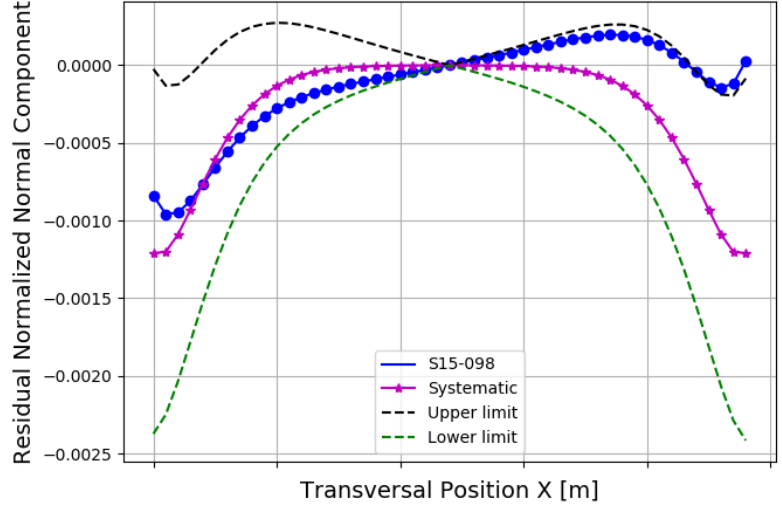
12 (-6.0 ± 13.2) × E-6 (1 ± 1) × E-5

13 (2 ± 1) × E-5 (3 ± 1) × E-5

14 (-3 ± 2) × E-5 (-1 ± 2) × E-5

15 (1.35 ± 0.03) × E-3 (-3 ± 2) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

