



S15-145

STORAGE RING MAGNET REPORT

Results

Date 03/07/2018

Hour 14:55:37

Temperature [°C] 23.196

Number of Measurements 9

Main Coil Current [A] (167.7987 ± 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] (7.79 ± 0.02) × E-3

Magnet Center Offset X [μm] - (< ±40.0) (2001.6 ± 41.6)

Magnet Center Offset Y [μm] - (< ±40.0) (2314.5 ± 60.9)

Roll [mrad] - (< ±0.3) (558.8 ± 0.7)

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) (-1.67 ± 0.03) × E-1 (-1.93 ± 0.05) × E-1

2 (quadrupole) (1.000 ± 0.003) (2.054 ± 0.008)

3 (sextupole) (-555 ± 1) (-2.6 ± 0.5) × E-2

4 (-9 ± 3) × E-3 (-1.19 ± 0.06) × E-1

5 (-1.74 ± 0.04) × E-1 (4 ± 4) × E-3

6 (5 ± 5) × E-3 (5 ± 5) × E-3

7 (-4.7 ± 0.5) × E-2 (1.8 ± 0.6) × E-2

8 (-9 ± 3) × E-3 (-1.2 ± 0.5) × E-2

9 (1.121 ± 0.005) (-6.0 ± 0.6) × E-2

10 (-4 ± 5) × E-3 (6.8 ± 49.2) × E-4

11 (2 ± 3) × E-3 (-2.9 ± 60.4) × E-4

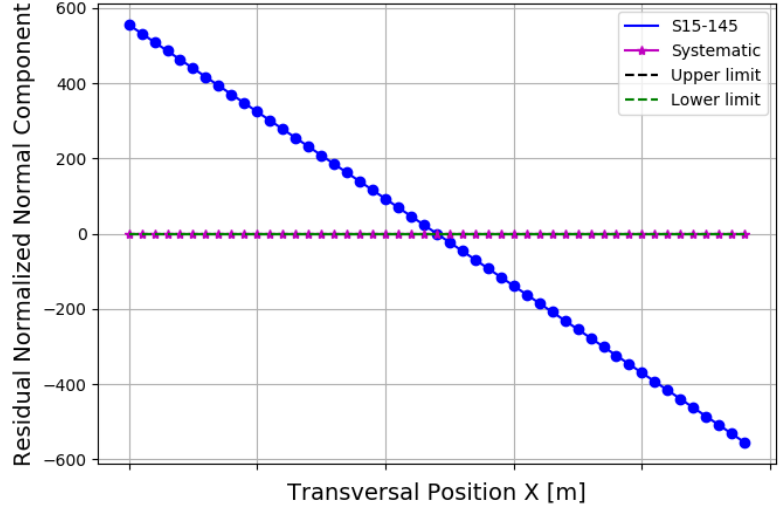
12 (5 ± 5) × E-3 (-4 ± 7) × E-3

13 (9 ± 5) × E-3 (-1.1 ± 0.6) × E-2

14 (1.2 ± 0.4) × E-2 (2.1 ± 0.5) × E-2

15 (-7.43 ± 0.04) × E-1 (-6 ± 4) × E-3

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

