



S15-167

STORAGE RING MAGNET REPORT

Results

Date 04/07/2018

Hour 14:51:22

Temperature [°C] 23.635

Number of Measurements 9

Main Coil Current [A] (167.7982 ± 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] (-359.819 ± 0.004)

Magnet Center Offset X [μm] - (< ±40.0) (17.43 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (27.36 ± 0.08)

Roll [mrad] - (< ±0.3) (-7 ± 5) × E-3

Electric Parameters

Inductance [mH] 3.157

Voltage [V] 6.0106

Resistance [mΩ] 35.82

Main Coil Number of Turns 11.25

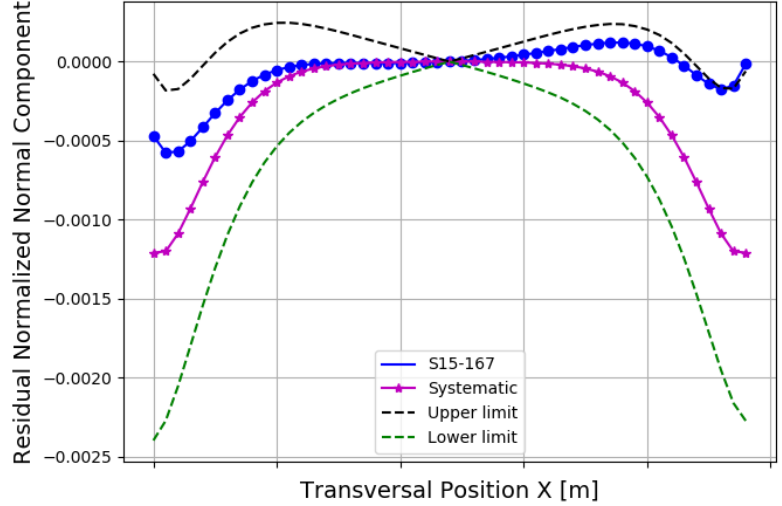
n

Normalized
Normal
Multipoles
x=12.0 mm
[T.m⁽²⁻ⁿ⁾]

Normalized
Skew
Multipoles
x=12.0 mm
[T.m⁽²⁻ⁿ⁾]

1 (dipole)	(-1.294 ± 0.006) × E-3	(2 ± 2) × E-5
2 (quadrupole)	(-2.905 ± 0.005) × E-3	(-4.56 ± 0.01) × E-3
3 (sextupole)	(1.00000 ± 0.00001)	(-2 ± 2) × E-5
4	(9.6 ± 0.7) × E-5	(1.7 ± 0.1) × E-4
5	(2.72 ± 0.06) × E-4	(-4 ± 2) × E-5
6	(1.61 ± 0.07) × E-4	(3 ± 8) × E-6
7	(1.32 ± 0.08) × E-4	(-3 ± 1) × E-5
8	(-6 ± 7) × E-6	(4 ± 1) × E-5
9	(-1.94 ± 0.02) × E-3	(1.6 ± 0.1) × E-4
10	(-9.7 ± 10.3) × E-6	(4.1 ± 10.7) × E-6
11	(3 ± 1) × E-5	(-5.1 ± 10.3) × E-6
12	(-2 ± 1) × E-5	(-2 ± 1) × E-5
13	(-2 ± 1) × E-5	(4 ± 2) × E-5
14	(3 ± 9) × E-6	(-5 ± 1) × E-5
15	(1.29 ± 0.02) × E-3	(1 ± 2) × E-5

Residual Normalized Normal Integrated Field



Residual Normalized Skew Integrated Field

