



S15-085

STORAGE RING MAGNET REPORT

Results

Date 18/07/2018

Hour 11:52:30

Temperature [°C] 23.44

Number of Measurements 9

Main Coil Current [A] (167.7977 ± 0.0009)

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] (-359.576 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (13.42 ± 0.07)

Magnet Center Offset Y [μm] - (< ±40.0) (16.9 ± 0.2)

Roll [mrad] - (< ±0.3) (7 ± 9) × E-3

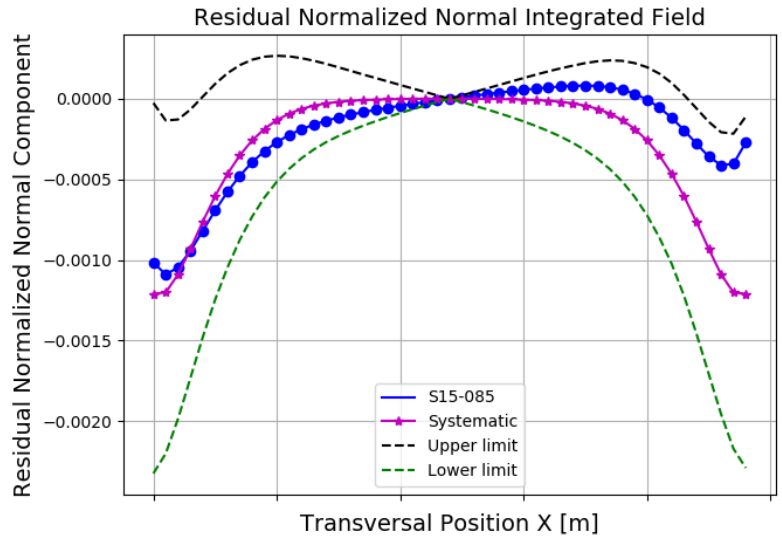
Electric Parameters

Inductance [mH] 3.157

Voltage [V] 6.0106

Resistance [mΩ] 35.82

Main Coil Number of Turns 11.25



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

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

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)	(-9.05 ± 0.07) × E-4	(2.8 ± 0.3) × E-4
2 (quadrupole)	(-2.24 ± 0.01) × E-3	(-2.82 ± 0.03) × E-3
3 (sextupole)	(1.00000 ± 0.00001)	(2 ± 3) × E-5
4	(2.4 ± 0.1) × E-4	(8 ± 3) × E-5
5	(-1.1 ± 0.2) × E-4	(5 ± 3) × E-5
6	(1.0 ± 0.2) × E-4	(-2.2 ± 27.6) × E-6
7	(2 ± 2) × E-5	(-5 ± 3) × E-5
8	(2 ± 3) × E-5	(3.8 ± 21.8) × E-6
9	(-1.88 ± 0.02) × E-3	(5.2 ± 0.3) × E-4
10	(6.2 ± 18.7) × E-6	(3.0 ± 30.1) × E-6
11	(-1.7 ± 17.8) × E-6	(-1 ± 5) × E-5
12	(1.0 ± 20.1) × E-6	(-2 ± 3) × E-5
13	(-4 ± 3) × E-5	(-5.9 ± 27.6) × E-6
14	(3.0 ± 37.1) × E-6	(-2 ± 3) × E-5
15	(1.36 ± 0.03) × E-3	(-6 ± 2) × E-5

