



S15-078

STORAGE RING MAGNET REPORT

Results

Date 10/08/2018

Hour 08:45:44

Temperature [°C] 23.406

Number of Measurements 9

Main Coil Current [A] (167.799 ± 0.001)

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] (-359.711 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (24.25 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (24.36 ± 0.03)

Roll [mrad] - (< ±0.3) (-9.4 ± 0.2) × E-2

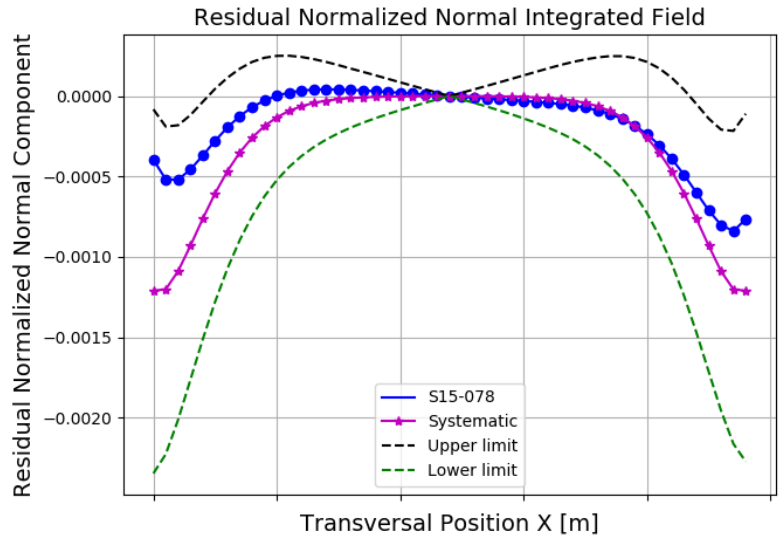
Electric Parameters

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)	(-1.035 ± 0.006) × E-3	(-1.84 ± 0.08) × E-4
2 (quadrupole)	(-4.042 ± 0.003) × E-3	(-4.060 ± 0.004) × E-3
3 (sextupole)	(1.000000 ± 0.000009)	(-2.81 ± 0.07) × E-4
4	(-1.21 ± 0.06) × E-4	(-6.1 ± 0.4) × E-5
5	(3 ± 4) × E-6	(-3.4 ± 0.6) × E-5
6	(-3 ± 4) × E-6	(-4.9 ± 0.6) × E-5
7	(2.8 ± 0.6) × E-5	(-8 ± 5) × E-6
8	(-10 ± 5) × E-6	(2.6 ± 0.9) × E-5
9	(-1.941 ± 0.004) × E-3	(5.6 ± 0.7) × E-5
10	(-1.1 ± 0.5) × E-5	(8 ± 7) × E-6
11	(1.2 ± 0.6) × E-5	(-1.2 ± 0.7) × E-5
12	(-8 ± 6) × E-6	(2 ± 6) × E-6
13	(-1.6 ± 0.7) × E-5	(1.0 ± 0.8) × E-5
14	(-3.3 ± 0.7) × E-5	(-3.9 ± 0.6) × E-5
15	(1.334 ± 0.006) × E-3	(-2.0 ± 0.5) × E-5

