



S15-056

STORAGE RING MAGNET REPORT

Results

Date 16/07/2018

Hour 15:33:44

Temperature [°C] 23.437

Number of Measurements 9

Main Coil Current [A] (167.798 ± 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] (-359.658 ± 0.005)

Magnet Center Offset X [μm] - (< ±40.0) (24.86 ± 0.10)

Magnet Center Offset Y [μm] - (< ±40.0) (26.64 ± 0.07)

Roll [mrad] - (< ±0.3) (-8.7 ± 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)	(-1.735 ± 0.007) × E-3	(2.0 ± 0.1) × E-4
2 (quadrupole)	(-4.14 ± 0.02) × E-3	(-4.44 ± 0.01) × E-3
3 (sextupole)	(1.00000 ± 0.00002)	(-2.6 ± 0.2) × E-4
4	(1.7 ± 0.2) × E-4	(4.7 ± 0.2) × E-4
5	(-1.5 ± 0.2) × E-4	(7 ± 2) × E-5
6	(-5 ± 2) × E-5	(-3 ± 2) × E-5
7	(6 ± 1) × E-5	(-5 ± 2) × E-5
8	(3 ± 2) × E-5	(-2 ± 2) × E-5
9	(-2.05 ± 0.03) × E-3	(5.1 ± 0.3) × E-4
10	(1 ± 2) × E-5	(-1 ± 3) × E-5
11	(1 ± 1) × E-5	(2.9 ± 32.8) × E-6
12	(4.4 ± 29.2) × E-6	(1 ± 2) × E-5
13	(-1 ± 2) × E-5	(2 ± 2) × E-5
14	(-5 ± 2) × E-5	(9.1 ± 28.2) × E-6
15	(1.46 ± 0.01) × E-3	(-1.0 ± 0.3) × E-4

