



S15-012

STORAGE RING MAGNET REPORT

Results

Date	15/08/2018
Hour	09:27:53
Temperature [°C]	23.464
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]	(-360.169 ± 0.002)
Magnet Center Offset X [μm] - (< ±40.0)	(15.14 ± 0.04)
Magnet Center Offset Y [μm] - (< ±40.0)	(20.1 ± 0.1)
Roll [mrad] - (< ±0.3)	(1.77 ± 0.08) x E-1

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)	(-1.168 ± 0.007) x E-3	(-3.5 ± 0.2) x E-4
2 (quadrupole)	(-2.523 ± 0.007) x E-3	(-3.35 ± 0.02) x E-3
3 (sextupole)	(1.000000 ± 0.000007)	(5.3 ± 0.3) x E-4
4	(6.6 ± 0.1) x E-4	(6 ± 2) x E-5
5	(3.0 ± 0.2) x E-4	(2.3 ± 0.2) x E-4
6	(-1.2 ± 0.2) x E-4	(-2 ± 2) x E-5
7	(1.3 ± 0.2) x E-4	(-4 ± 2) x E-5
8	(6 ± 2) x E-5	(1 ± 2) x E-5
9	(-1.90 ± 0.02) x E-3	(2.2 ± 0.2) x E-4
10	(-3 ± 1) x E-5	(9.9 ± 28.7) x E-6
11	(-3.4 ± 18.6) x E-6	(-3.0 ± 0.9) x E-5
12	(1 ± 1) x E-5	(-7.3 ± 11.4) x E-6
13	(-2 ± 1) x E-5	(1.1 ± 18.0) x E-6
14	(-4 ± 1) x E-5	(-2 ± 2) x E-5
15	(1.33 ± 0.02) x E-3	(-2 ± 1) x E-5

