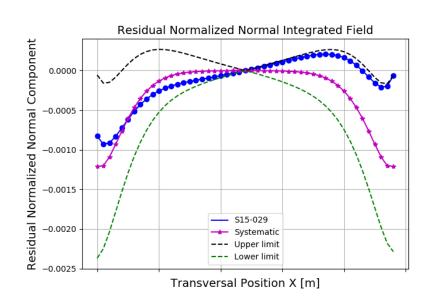


## S15-029

## STORAGE RING MAGNET REPORT

Results	
Date	15/08/2018
Hour	12:11:34
Temperature [°C]	23.315
Number of Measurements	9
Main Coil Current [A]	(167.796 ± 0.003)
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]	(-360.977 ± 0.003
Magnet Center Offset X [μm] - (< ±40.0)	(4.72 ± 0.07)
Magnet Center Offset Y [μm] - (< ±40.0)	(20.9 ± 0.1)
Roll [mrad] - (< ±0.3)	(-2 ± 9) x E-3
Electric Parameters	1
Indutance [mH]	3.157
Voltage [V]	6.0106
Resistance [m $\Omega$ ]	35.82
Main Coil Number of Turns	11.25



	Normalized	Normalized
	Normal	Skew
n	Multipoles	Multipoles
	x=12.0 mm	x=12.0 mm
	[T.m <sup>(2-n)</sup> ]	[T.m <sup>(2-n)</sup> ]
1 (dipole)	(-6.67 ± 0.06) x E-4	(9.7 ± 0.2) x E-4
2 (quadrupole)	(-7.9 ± 0.1) x E-4	(-3.48 ± 0.02) x E-3
3 (sextupole)	(1.00000 ± 0.00001)	(-6.5 ± 27.0) x E-6
4	(4.1 ± 0.1) x E-4	(1.8 ± 0.2) x E-4
5	(1.4 ± 0.2) x E-4	(-1.1 ± 0.2) x E-4
6	(-6 ± 2) x E-5	(1.1 ± 12.1) x E-6
7	(4 ± 2) x E-5	(-3 ± 1) x E-5
8	(3 ± 2) x E-5	(3 ± 2) x E-5
9	(-2.02 ± 0.01) x E-3	(2.8 ± 0.2) x E-4
10	(-6.5 ± 15.4) x E-6	(-2.3 ± 14.4) x E-6
11	(1 ± 2) x E-5	(1 ± 2) x E-5
12	(5.9 ± 15.1) x E-6	(-3 ± 1) x E-5
13	(7.3 ± 15.0) x E-6	(1 ± 2) x E-5
14	(-2.8 ± 17.2) x E-6	(-4 ± 2) x E-5
15	(1.373 ± 0.005) x E-3	(-1 ± 2) x E-5

