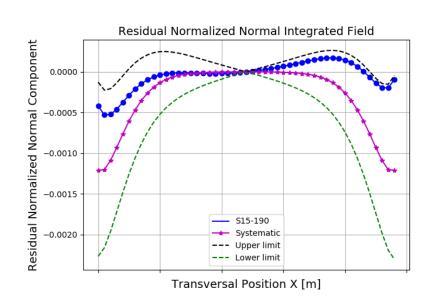


S15-190

STORAGE RING MAGNET REPORT

Results		
Date	10/07/2018	
Hour	14:29:41	
Temperature [°C]	23.708	
Number of Measurements	9	
Main Coil Current [A]	(167.799 ± 0.005	
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]	(-359.718 ± 0.003	
Magnet Center Offset X [μm] - (< ±40.0)	(15.85 ± 0.04)	
Magnet Center Offset Y [μm] - (< ±40.0)	(28.16 ± 0.09)	
Roll [mrad] - (< ±0.3)	(-9.7 ± 0.6) x E-2	
Electric Parameters		
Indutance [mH]	3.157	
Voltage [V]	6.0106	
Resistance [m Ω]	35.82	
Main Coil Number of Turns	11.25	



	Normalized Normal	Normalized Skew
n	Multipoles	Multipoles
	x=12.0 mm	x=12.0 mm
	[T.m ⁽²⁻ⁿ⁾]	[T.m ⁽²⁻ⁿ⁾]
1 (dipole)	(2.9 ± 0.1) x E-4	(-6.2 ± 0.1) x E-4
2 (quadrupole)	(-2.641 ± 0.007) x E-3	(-4.69 ± 0.01) x E-3
3 (sextupole)	(1.00000 ± 0.00001)	(-2.9 ± 0.2) x E-4
4	(1.7 ± 0.1) x E-4	(-1.4 ± 0.2) x E-4
5	(4.0 ± 0.1) x E-4	(2.7 ± 23.4) x E-6
6	(8.9 ± 14.4) x E-6	(-3 ± 2) x E-5
7	(6 ± 2) x E-5	(3 ± 2) x E-5
8	(3 ± 2) x E-5	(4 ± 2) x E-5
9	(-1.99 ± 0.02) x E-3	(3.9 ± 0.1) x E-4
10	(-2 ± 2) x E-5	(1 ± 2) x E-5
11	(-5 ± 2) x E-5	(-1 ± 2) x E-5
12	(5.3 ± 23.1) x E-6	(1 ± 2) x E-5
13	(7.8 ± 19.9) x E-6	(-3.0 ± 11.1) x E-6
14	(-4 ± 2) x E-5	(-6 ± 2) x E-5
15	(1.31 ± 0.01) x E-3	(3.2 ± 28.3) x E-6

