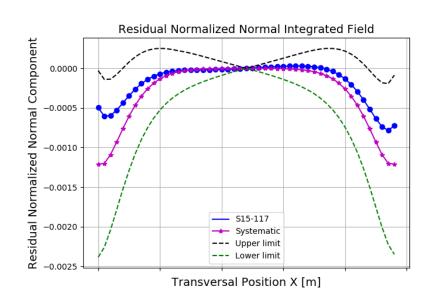


## S15-117

## STORAGE RING MAGNET REPORT

Results		
Date	09/08/2018	
Hour	11:44:29	
Temperature [°C]	23.624	
Number of Measurements	9	
Main Coil Current [A]	(167.797 ± 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]	(-359.969 ± 0.003	
Magnet Center Offset X [μm] - (< ±40.0)	(9.19 ± 0.03)	
Magnet Center Offset Y [μm] - (< ±40.0)	(21.90 ± 0.04)	
Roll [mrad] - (< ±0.3)	(6.0 ± 0.2) x E-2	
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)	(-5.61 ± 0.04) x E-4	(8.51 ± 0.08) x E-4
2 (quadrupole)	(-1.531 ± 0.004) x E-3	(-3.650 ± 0.006) x E-3
3 (sextupole)	(1.00000 ± 0.00001)	(1.80 ± 0.07) x E-4
4	(9.8 ± 0.4) x E-5	(-2.2 ± 0.3) x E-5
5	(6.8 ± 0.7) x E-5	(-6.8 ± 0.9) x E-5
6	(-2.13 ± 0.08) x E-4	(1.0 ± 0.6) x E-5
7	(-7 ± 8) x E-6	(-3.3 ± 0.5) x E-5
8	(8 ± 8) x E-6	(2.3 ± 0.8) x E-5
9	(-1.994 ± 0.004) x E-3	(3.9 ± 0.6) x E-5
10	(-7.4 ± 78.9) x E-7	(1.6 ± 0.6) x E-5
11	(-10 ± 6) x E-6	(1.1 ± 0.7) x E-5
12	(1.4 ± 0.4) x E-5	(1 ± 8) × E-6
13	(-4.63 ± 515.51) x E-8	(1.8 ± 0.8) x E-5
14	(-1.9 ± 0.6) x E-5	(-3.2 ± 0.6) x E-5
15	(1.333 ± 0.005) x E-3	(7 ± 6) x E-6

