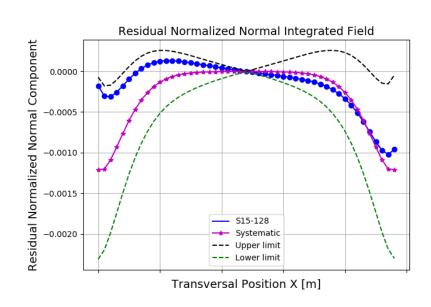


## S15-128

## STORAGE RING MAGNET REPORT

Results		
Date	06/07/2018	
Hour	09:44:42	
Temperature [°C]	23.653	
Number of Measurements	9	
Main Coil Current [A]	(167.7977 ± 0.0007	
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]	(-359.774 ± 0.003)	
Magnet Center Offset X [μm] - (< ±40.0)	(12.36 ± 0.02)	
Magnet Center Offset Y [μm] - (< ±40.0)	(20.62 ± 0.04)	
Roll [mrad] - (< ±0.3)	(-2 ± 3) x E-3	
Electric Parameters		
Indutance [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 <sup>(2-n)</sup> ]	Normalized Skew Multipoles x=12.0 mm [T.m <sup>(2-n)</sup> ]
1 (dipole)	(-6.58 ± 0.04) x E-4	(-4.7 ± 0.5) x E-5
2 (quadrupole)	(-2.060 ± 0.003) x E-3	(-3.437 ± 0.007) x E-3
3 (sextupole)	(1.00000 ± 0.00001)	(-6 ± 9) x E-6
4	(-2.51 ± 0.07) x E-4	(-1.03 ± 0.08) x E-4
5	(6.8 ± 0.4) x E-5	(1.2 ± 0.9) x E-5
6	(-1.57 ± 0.09) x E-4	(-2.7 ± 0.6) x E-5
7	(4.8 ± 1.0) x E-5	(-1.4 ± 10.1) x E-6
8	(2.8 ± 0.6) x E-5	(1.8 ± 0.8) x E-5
9	(-2.043 ± 0.010) x E-3	(1.75 ± 0.06) x E-4
10	(5 ± 1) x E-5	(3.5 ± 1.0) x E-5
11	(10 ± 8) x E-6	(-2.6 ± 0.6) x E-5
12	(-9 ± 8) x E-6	(2.8 ± 1.0) x E-5
13	(1.3 ± 0.9) x E-5	(-2.6 ± 0.9) x E-5
14	(-5.3 ± 0.8) x E-5	(-2.4 ± 0.7) x E-5
15	(1.337 ± 0.009) x E-3	(2.5 ± 11.8) x E-6

