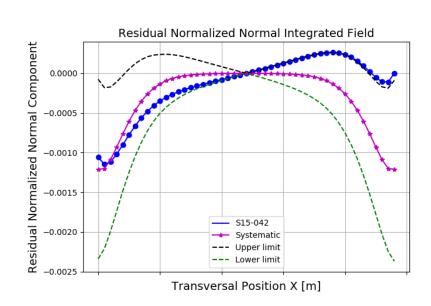


## S15-042

## STORAGE RING MAGNET REPORT

Results		
Date	11/07/2018	
Hour	12:57:22	
Temperature [°C]	22.954	
Number of Measurements	9	
Main Coil Current [A]	(167.7983 ± 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]	(-360.463 ± 0.001)	
Magnet Center Offset X [μm] - (< ±40.0)	(20.70 ± 0.05)	
Magnet Center Offset Y [μm] - (< ±40.0)	(28.73 ± 0.06)	
Roll [mrad] - (< ±0.3)	(1.96 ± 0.04) x E-1	
Electric Parameters	1	
Indutance [mH]	3.157	
Voltage [V]	6.0106	
Resistance [mΩ]	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)	(-3.35 ± 0.03) x E-4	(1.58 ± 0.09) x E-4
2 (quadrupole)	(-3.449 ± 0.008) x E-3	(-4.789 ± 0.010) x E-3
3 (sextupole)	(1.000000 ± 0.000005)	(5.9 ± 0.1) x E-4
4	(4.8 ± 0.1) x E-4	(3.7 ± 0.1) x E-4
5	(8.2 ± 0.7) x E-5	(-4.21 ± 0.10) x E-4
6	(1.4 ± 0.1) x E-4	(3.4 ± 0.7) x E-5
7	(4 ± 1) x E-5	(8 ± 1) x E-5
8	(-4.3 ± 17.0) x E-6	(3 ± 1) x E-5
9	(-1.98 ± 0.01) x E-3	(2.5 ± 0.2) x E-4
10	(-5 ± 2) x E-5	(1 ± 1) x E-5
11	(-9.22 ± 126.45) x E-7	(1 ± 1) x E-5
12	(-4 ± 9) x E-6	(1.2 ± 1.0) x E-5
13	(4.3 ± 18.1) x E-6	(2 ± 1) x E-5
14	(-3 ± 2) x E-5	(-3 ± 2) x E-5
15	(1.331 ± 0.006) x E-3	(-1.8 ± 1.0) x E-5

