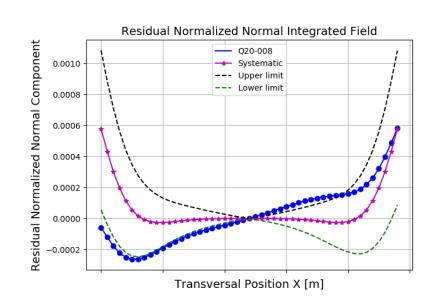


Q20-008

STORAGE RING MAGNET REPORT

Results		
Date	11/06/2018	
Hour	16:02:13	
Temperature [°C]	22.82	
Number of Measurements	9	
Main Coil Current [A]	(157.5202 ± 0.0005)	
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]	(-9.11184 ± 0.00002	
Magnet Center Offset X [μm] - (< ±40.0)	(-1.13 ± 0.02)	
Magnet Center Offset Y [μm] - (< ±40.0)	(7.31 ± 0.03)	
Roll [mrad] - (< ±0.3)	(2.10 ± 0.02) x E-1	
Electric Parameters		
Indutance [mH]	8.9467	
Voltage [V]	5.42	
Resistance [m Ω]	34.4	
Main Coil Number of Turns	23.25	



	Normalized	Normalized
	Normal	Skew
n	Multipoles	Multipoles
	x=12.0 mm	x=12.0 mm
	[T.m ⁽²⁻ⁿ⁾]	[T.m ⁽²⁻ⁿ⁾]
1 (dipole)	(9.4 ± 0.2) x E-5	(-6.09 ± 0.02) x E-4
2 (quadrupole)	(1.000000 ± 0.000003)	(4.19 ± 0.03) x E-4
3 (sextupole)	(2.75 ± 0.01) x E-4	(2.20 ± 0.03) x E-4
4	(1.75 ± 0.03) x E-4	(-7.0 ± 0.3) x E-5
5	(4.0 ± 0.1) x E-5	(-2.1 ± 0.3) x E-5
6	(-8.81 ± 0.02) x E-4	(8.7 ± 0.3) x E-5
7	(1.1 ± 0.3) x E-5	(-1.1 ± 0.3) x E-5
8	(-3 ± 2) x E-6	(-2 ± 5) x E-6
9	(6.3 ± 36.5) x E-7	(-1.5 ± 0.5) x E-5
10	(1.674 ± 0.003) x E-3	(-4.2 ± 0.4) x E-5
11	(-6 ± 3) x E-6	(5 ± 4) x E-6
12	(-5 ± 3) x E-6	(5 ± 5) x E-6
13	(-1 ± 2) x E-6	(1.3 ± 0.5) x E-5
14	(-6.98 ± 0.03) x E-4	(1.4 ± 0.5) x E-5
15	(3.8 ± 30.7) x E-7	(-4 ± 3) x E-6

