

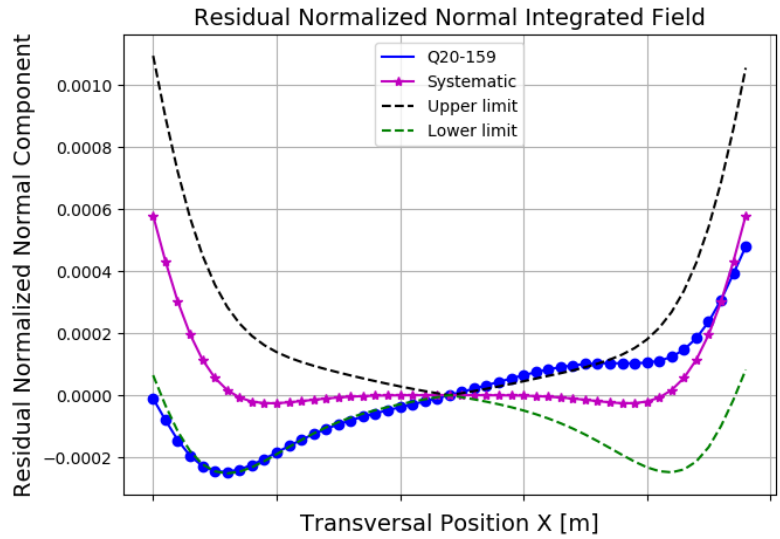


Q20-159

STORAGE RING MAGNET REPORT

Results

Date	15/05/2018
Hour	10:54:42
Temperature [°C]	23.47
Number of Measurements	9
Main Coil Current [A]	(157.5582 ± 0.0004)
Integrated Gradient [T]	(-9.09695 ± 0.00003)
Magnet Center Offset X [μm] - (< ±40.0)	(1.46 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(9.87 ± 0.04)
Roll [mrad] - (< ±0.3)	(-4.8 ± 0.2) x E-2
Electric Parameters	
Inductance [mH]	8.9467
Voltage [V]	5.42
Resistance [mΩ]	34.4
Main Coil Number of Turns	23.25



n	Normalized Normal Multipoles x=12.0 mm [T.m ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles x=12.0 mm [T.m ⁽²⁻ⁿ⁾]
1 (dipole)	(-1.21 ± 0.03) x E-4	(-8.22 ± 0.04) x E-4
2 (quadrupole)	(1.000000 ± 0.000005)	(-9.6 ± 0.4) x E-5
3 (sextupole)	(2.46 ± 0.02) x E-4	(1.93 ± 0.03) x E-4
4	(9.8 ± 0.4) x E-5	(-5.3 ± 0.3) x E-5
5	(2 ± 4) x E-6	(-2.0 ± 0.4) x E-5
6	(-8.23 ± 0.04) x E-4	(1.14 ± 0.02) x E-4
7	(1.4 ± 41.3) x E-7	(-5 ± 6) x E-6
8	(-2 ± 3) x E-6	(7 ± 6) x E-6
9	(5 ± 3) x E-6	(-4 ± 4) x E-6
10	(1.657 ± 0.004) x E-3	(-7.1 ± 0.6) x E-5
11	(-5 ± 5) x E-6	(4.7 ± 47.8) x E-7
12	(-6.8 ± 45.2) x E-7	(-2 ± 3) x E-6
13	(-6 ± 5) x E-6	(4 ± 5) x E-6
14	(-6.95 ± 0.05) x E-4	(2.7 ± 0.4) x E-5
15	(3 ± 4) x E-6	(-3 ± 5) x E-6

