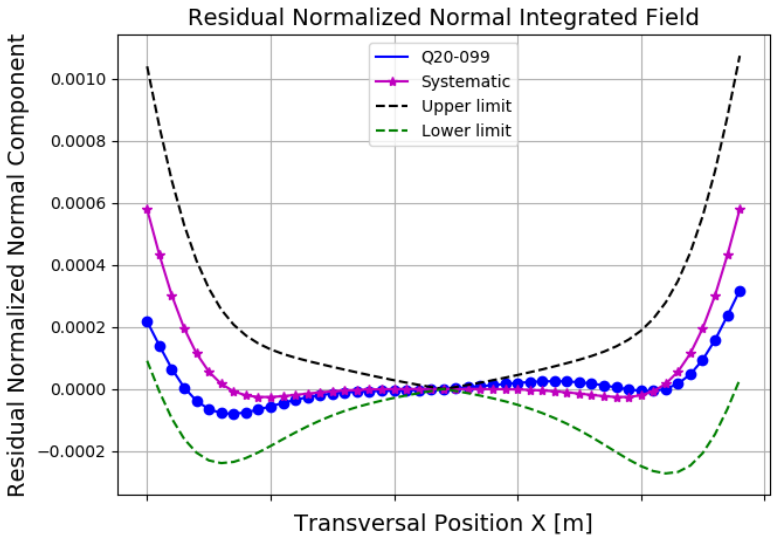
Q20-099

STORAGE RING MAGNET REPORT

Results	
Date	04/06/2018
Hour	11:47:12
Temperature [°C]	23.11
Number of Measurements	9
Main Coil Current [A]	(157.5574 ± 0.0006)
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]	(-9.19054 ± 0.00001)
Magnet Center Offset X [μm] - (< ±40.0)	(9.02 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(7.79 ± 0.06)
Roll [mrad] - (< ±0.3)	(1.20 ± 0.03) x E-1
Electric Parameters	
Indutance [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)	(-7.51 ± 0.02) x E-4	(-6.49 ± 0.05) x E-4
2 (quadrupole)	(1.000000 ± 0.000002)	(2.40 ± 0.06) x E-4
3 (sextupole)	(5.4 ± 0.2) x E-5	(2.37 ± 0.05) x E-4
4	(1.51 ± 0.02) x E-4	(-4.1 ± 0.4) x E-5
5	(-1.2 ± 0.3) x E-5	(-2.9 ± 0.6) x E-5
6	(-8.42 ± 0.04) x E-4	(6.0 ± 0.6) x E-5
7	(1.9 ± 0.4) x E-5	(-8 ± 6) x E-6
8	(-1.5 ± 0.4) x E-5	(-2 ± 5) x E-6
9	(4 ± 3) x E-6	(1.3 ± 0.5) x E-5
10	(1.668 ± 0.004) x E-3	(-3.8 ± 0.3) x E-5
11	(-2.1 ± 0.6) x E-5	(1 ± 1) x E-5
12	(1.7 ± 0.4) x E-5	(7.0 ± 25.5) x E-7
13	(-10 ± 9) x E-6	(-1.8 ± 0.5) x E-5
14	(-7.10 ± 0.03) x E-4	(2.5 ± 0.5) x E-5
15	(1.6 ± 0.3) x E-5	(-1.4 ± 0.5) x E-5