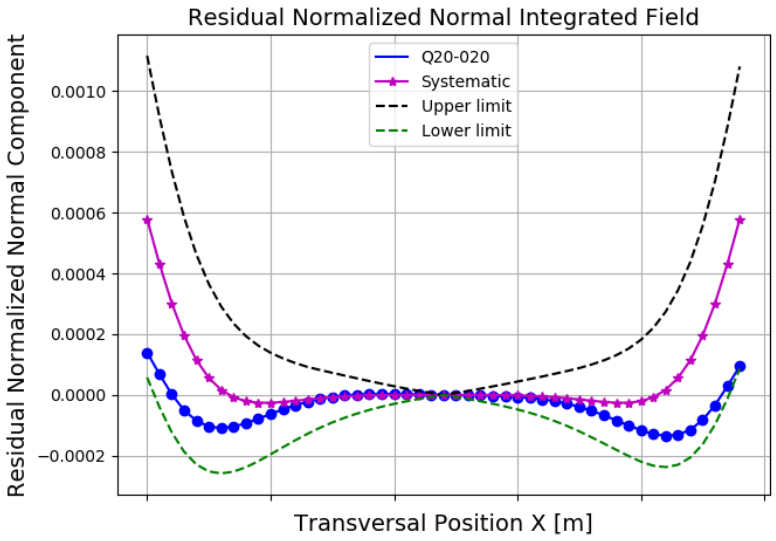
Q20-020

STORAGE RING MAGNET REPORT

Results	
Date	13/06/2018
Hour	15:29:29
Temperature [°C]	22.47
Number of Measurements	9
Main Coil Current [A]	(157.5173 ± 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]	(-9.10761 ± 0.00002)
Magnet Center Offset X [μm] - (< ±40.0)	(13.43 ± 0.06)
Magnet Center Offset Y [μm] - (< ±40.0)	(10.13 ± 0.06)
Roll [mrad] - (< ±0.3)	(1.37 ± 0.04) 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)	(-1.120 ± 0.005) x E-3	(-8.44 ± 0.05) x E-4
2 (quadrupole)	(1.000000 ± 0.000002)	(2.73 ± 0.09) x E-4
3 (sextupole)	(-1.9 ± 0.9) x E-5	(2.57 ± 0.07) x E-4
4	(3 ± 1) x E-5	(-2.0 ± 0.5) x E-5
5	(8.03 ± 101.32) x E-7	(-1 ± 1) x E-5
6	(-8.90 ± 0.06) x E-4	(1.52 ± 0.10) x E-4
7	(1.2 ± 0.8) x E-5	(-1.1 ± 0.7) x E-5
8	(-1.3 ± 0.9) x E-5	(-1.3 ± 0.7) x E-5
9	(-1.2 ± 0.3) x E-5	(-1.1 ± 0.9) x E-5
10	(1.695 ± 0.006) x E-3	(-2.8 ± 0.6) x E-5
11	(-6 ± 7) x E-6	(2 ± 5) x E-6
12	(2 ± 7) x E-6	(2.1 ± 0.7) x E-5
13	(6.5 ± 11.6) x E-6	(5 ± 7) x E-6
14	(-7.03 ± 0.05) x E-4	(-1.1 ± 1.0) x E-5
15	(-5 ± 8) x E-6	(-4 ± 7) x E-6