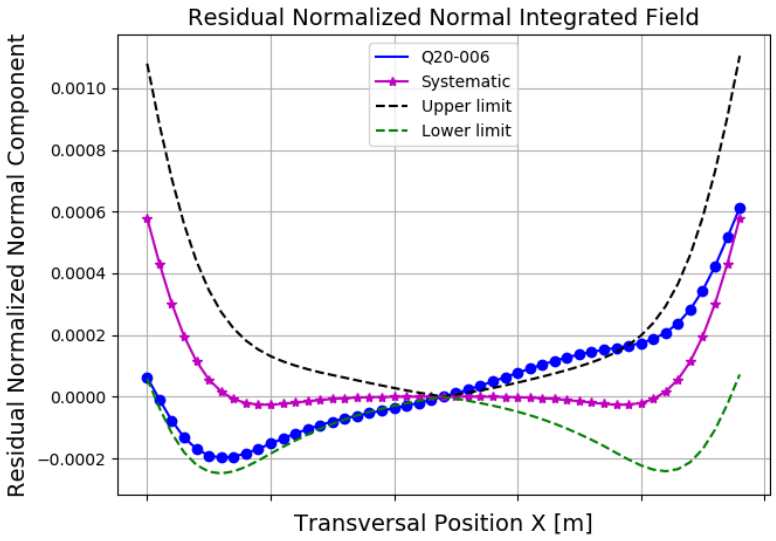
Q20-006

STORAGE RING MAGNET REPORT

Results	
Date	12/06/2018
Hour	08:56:52
Temperature [°C]	22.71
Number of Measurements	9
Main Coil Current [A]	(157.559 ± 0.002)
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]	(-9.10720 ± 0.00003)
Magnet Center Offset X [μm] - (< ±40.0)	(2.66 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(3.75 ± 0.05)
Roll [mrad] - (< ±0.3)	(7.6 ± 0.2) x E-2
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)	(-2.22 ± 0.03) x E-4	(-3.13 ± 0.04) x E-4
2 (quadrupole)	(1.000000 ± 0.000005)	(1.52 ± 0.04) x E-4
3 (sextupole)	(2.59 ± 0.05) x E-4	(1.19 ± 0.04) x E-4
4	(2.47 ± 0.04) x E-4	(-5.9 ± 0.4) x E-5
5	(2.1 ± 0.3) x E-5	(2 ± 4) x E-6
6	(-8.83 ± 0.05) x E-4	(6.2 ± 0.5) x E-5
7	(-9.67 ± 473.95) x E-8	(-6 ± 6) x E-6
8	(-8 ± 6) x E-6	(-5 ± 6) x E-6
9	(-6 ± 9) x E-6	(-6 ± 7) x E-6
10	(1.690 ± 0.007) x E-3	(-2.4 ± 0.8) x E-5
11	(-4 ± 7) x E-6	(1 ± 7) x E-6
12	(6.7 ± 36.3) x E-7	(1.1 ± 0.7) x E-5
13	(4 ± 5) x E-6	(3.3 ± 10.6) x E-6
14	(-7.10 ± 0.07) x E-4	(2 ± 9) x E-6
15	(1 ± 4) x E-6	(1.2 ± 71.8) x E-7