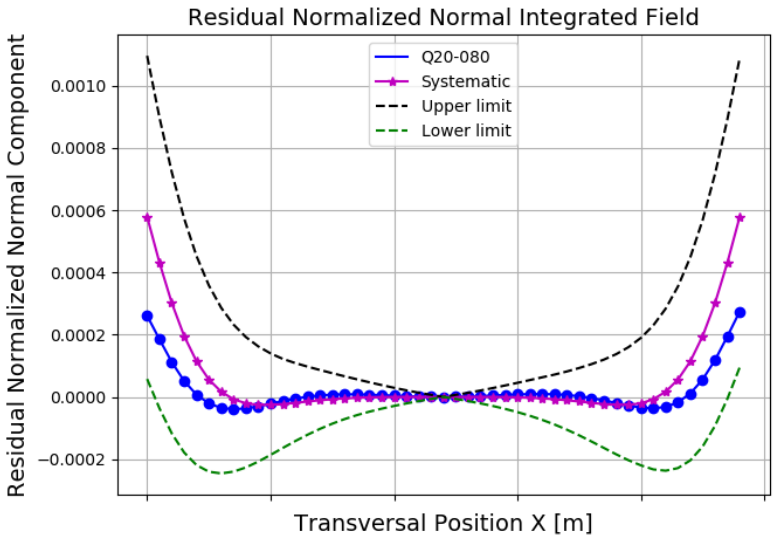
Q20-080

STORAGE RING MAGNET REPORT

Results	
Date	17/05/2018
Hour	10:51:47
Temperature [°C]	23.6
Number of Measurements	9
Main Coil Current [A]	(157.4374 ± 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]	(-9.07929 ± 0.00003)
Magnet Center Offset X [μm] - (< ±40.0)	(13.31 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(1.6 ± 0.3) x E-1
Roll [mrad] - (< ±0.3)	(-8.2 ± 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)	(-1.109 ± 0.001) x E-3	(-1.4 ± 0.2) x E-5
2 (quadrupole)	(1.000000 ± 0.000005)	(-1.65 ± 0.03) x E-4
3 (sextupole)	(2 ± 2) x E-6	(1.82 ± 0.03) x E-4
4	(1.76 ± 0.02) x E-4	(-2.1 ± 0.4) x E-5
5	(5.2 ± 22.7) x E-7	(-3.1 ± 0.3) x E-5
6	(-8.77 ± 0.01) x E-4	(6.0 ± 0.3) x E-5
7	(3 ± 2) x E-6	(-7.6 ± 31.9) x E-7
8	(-1.0 ± 0.2) x E-5	(-7 ± 3) x E-6
9	(-5 ± 4) x E-6	(1 ± 3) x E-6
10	(1.691 ± 0.002) x E-3	(-3.2 ± 0.4) x E-5
11	(-3 ± 4) x E-6	(-9.5 ± 23.6) x E-7
12	(5 ± 3) x E-6	(1.0 ± 0.2) x E-5
13	(8 ± 3) x E-6	(-1 ± 3) x E-6
14	(-7.16 ± 0.02) x E-4	(10 ± 2) x E-6
15	(2 ± 4) x E-6	(2 ± 3) x E-6