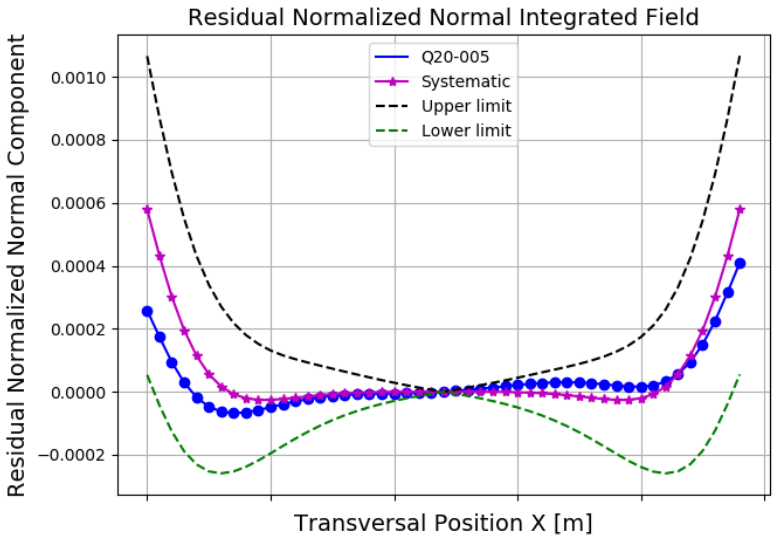
Q20-005

STORAGE RING MAGNET REPORT

Results	
Date	13/06/2018
Hour	09:03:54
Temperature [°C]	22.58
Number of Measurements	9
Main Coil Current [A]	(157.438 ± 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]	(-9.10666 ± 0.00003)
Magnet Center Offset X [μm] - (< ±40.0)	(-7.10 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(1.4 ± 0.5) x E-1
Roll [mrad] - (< ±0.3)	(10.0 ± 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)	(5.92 ± 0.02) x E-4	(-1.2 ± 0.4) x E-5
2 (quadrupole)	(1.000000 ± 0.000005)	(2.00 ± 0.03) x E-4
3 (sextupole)	(5.6 ± 0.1) x E-5	(2.8 ± 0.4) x E-5
4	(1.70 ± 0.03) x E-4	(-3.1 ± 0.4) x E-5
5	(6 ± 3) x E-6	(10 ± 3) x E-6
6	(-8.07 ± 0.03) x E-4	(5.1 ± 0.2) x E-5
7	(6 ± 4) x E-6	(-8 ± 6) x E-6
8	(-1.2 ± 0.2) x E-5	(3 ± 4) x E-6
9	(1.8 ± 0.4) x E-5	(-3 ± 4) x E-6
10	(1.689 ± 0.004) x E-3	(-1.4 ± 0.3) x E-5
11	(4.2 ± 27.1) x E-7	(5 ± 5) x E-6
12	(6 ± 2) x E-6	(5 ± 4) x E-6
13	(-1.0 ± 0.2) x E-5	(3 ± 6) x E-6
14	(-7.11 ± 0.02) x E-4	(7 ± 3) x E-6
15	(-8.7 ± 29.9) x E-7	(-4 ± 5) x E-6