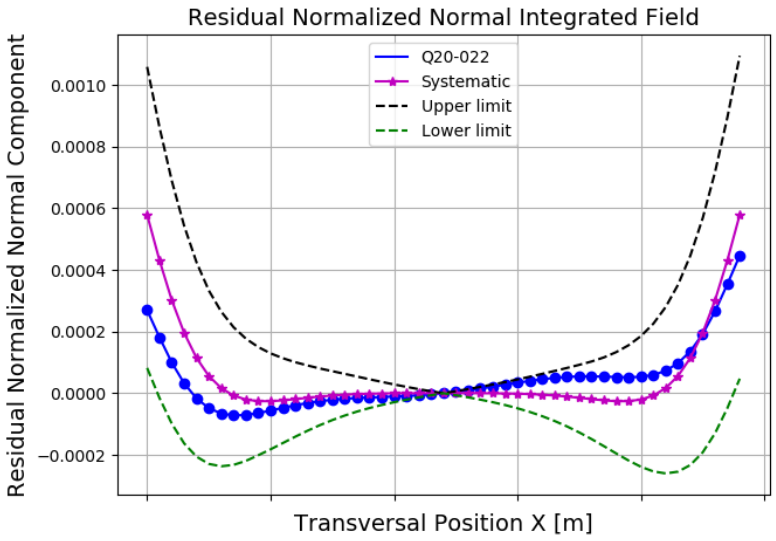
Q20-022

STORAGE RING MAGNET REPORT

Results	
Date	13/06/2018
Hour	16:14:52
Temperature [°C]	22.44
Number of Measurements	9
Main Coil Current [A]	(157.4373 ± 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]	(-9.08783 ± 0.00005)
Magnet Center Offset X [μm] - (< ±40.0)	(5.30 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(8.5 ± 0.3) x E-1
Roll [mrad] - (< ±0.3)	(8.4 ± 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)	(-4.42 ± 0.02) x E-4	(-7.1 ± 0.3) x E-5
2 (quadrupole)	(1.000000 ± 0.000008)	(1.69 ± 0.05) x E-4
3 (sextupole)	(9.6 ± 0.5) x E-5	(-6 ± 5) x E-6
4	(2.13 ± 0.06) x E-4	(-6 ± 6) x E-6
5	(-10 ± 5) x E-6	(-1.1 ± 0.6) x E-5
6	(-8.27 ± 0.06) x E-4	(1.20 ± 0.06) x E-4
7	(6 ± 9) x E-6	(-1.4 ± 0.7) x E-5
8	(5 ± 4) x E-6	(-1.0 ± 0.7) x E-5
9	(2 ± 6) x E-6	(-1 ± 6) x E-6
10	(1.667 ± 0.009) x E-3	(-4.2 ± 0.4) x E-5
11	(-2 ± 8) x E-6	(6 ± 5) x E-6
12	(-4 ± 4) x E-6	(1.2 ± 0.9) x E-5
13	(-1.1 ± 43.1) x E-7	(6 ± 6) x E-6
14	(-6.96 ± 0.08) x E-4	(1.0 ± 0.5) x E-5
15	(-3 ± 7) x E-6	(6.74 ± 549.84) x E-8