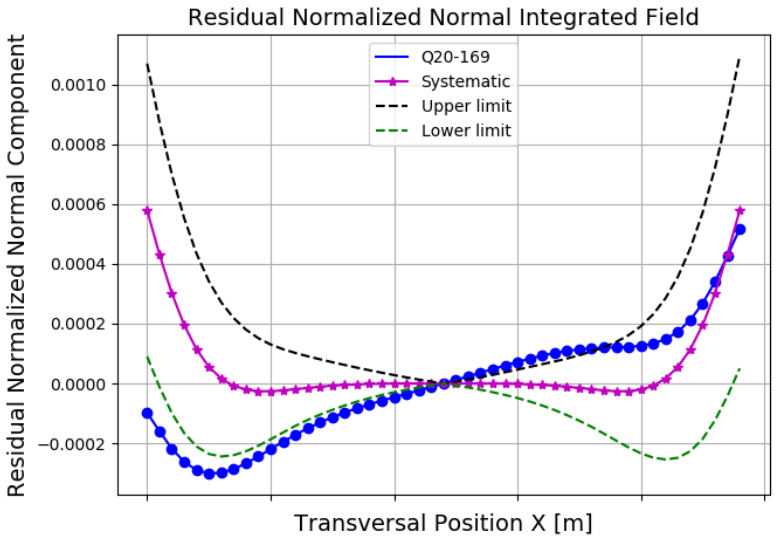
Q20-169

STORAGE RING MAGNET REPORT

Results	
Date	23/05/2018
Hour	16:30:04
Temperature [°C]	23.15
Number of Measurements	9
Main Coil Current [A]	(157.4375 ± 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]	(-9.07660 ± 0.00003)
Magnet Center Offset X [μm] - (< ±40.0)	(9.24 ± 0.04)
Magnet Center Offset Y [μm] - (< ±40.0)	(-2.44 ± 0.03)
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)	(-7.70 ± 0.03) x E-4	(2.04 ± 0.03) x E-4
2 (quadrupole)	(1.000000 ± 0.000004)	(1.63 ± 0.03) x E-4
3 (sextupole)	(2.82 ± 0.02) x E-4	(1.26 ± 0.04) x E-4
4	(7.2 ± 0.2) x E-5	(-7.1 ± 0.2) x E-5
5	(2.9 ± 0.3) x E-5	(-3.6 ± 0.4) x E-5
6	(-8.18 ± 0.02) x E-4	(7.0 ± 0.4) x E-5
7	(2 ± 3) x E-6	(-4 ± 3) x E-6
8	(4 ± 3) x E-6	(-7 ± 4) x E-6
9	(-8 ± 4) x E-6	(3 ± 3) x E-6
10	(1.649 ± 0.003) x E-3	(-2.4 ± 0.3) x E-5
11	(6.9 ± 33.6) x E-7	(3 ± 5) x E-6
12	(-5 ± 2) x E-6	(1.6 ± 0.4) x E-5
13	(3 ± 3) x E-6	(2 ± 3) x E-6
14	(-6.92 ± 0.03) x E-4	(-4 ± 4) x E-6
15	(-2 ± 2) x E-6	(-3 ± 5) x E-6