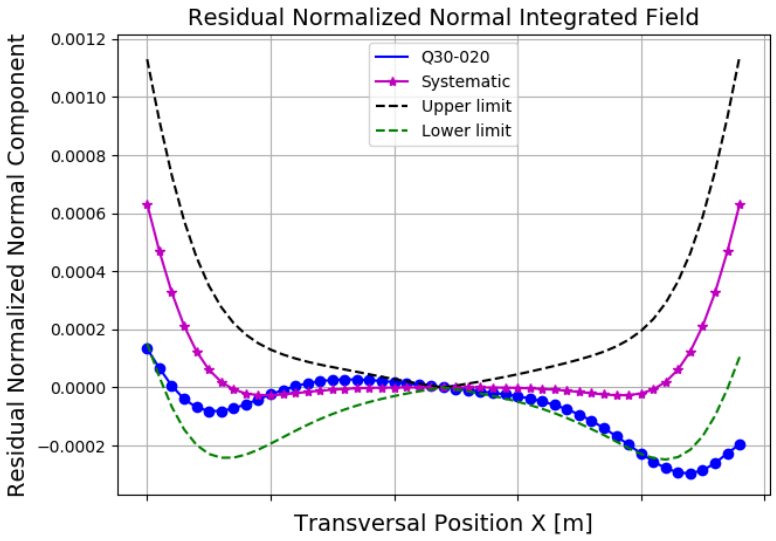
Q30-020

STORAGE RING MAGNET REPORT

Results	
Date	03/05/2018
Hour	16:15:00
Temperature [°C]	23.08
Number of Measurements	9
Main Coil Current [A]	(154.9966 ± 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]	(-13.63768 ± 0.00003)
Magnet Center Offset X [μm] - (< ±40.0)	(10.40 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(-4.11 ± 0.05)
Roll [mrad] - (< ±0.3)	(-2.26 ± 0.02) x E-1
Electric Parameters	
Indutance [mH]	9.24
Voltage [V]	7.4863
Resistance [mΩ]	48.3
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)	(-8.67 ± 0.02) x E-4	(3.43 ± 0.04) x E-4
2 (quadrupole)	(1.000000 ± 0.000003)	(-4.52 ± 0.05) x E-4
3 (sextupole)	(-1.09 ± 0.05) x E-4	(2.52 ± 0.04) x E-4
4	(3.0 ± 0.4) x E-5	(-2.4 ± 0.4) x E-5
5	(-4.1 ± 0.3) x E-5	(-5.8 ± 0.6) x E-5
6	(-1.118 ± 0.005) x E-3	(1.00 ± 0.03) x E-4
7	(-6 ± 6) x E-6	(1.4 ± 0.5) x E-5
8	(7 ± 3) x E-6	(1.1 ± 0.7) x E-5
9	(7 ± 4) x E-6	(3.3 ± 0.4) x E-5
10	(1.790 ± 0.006) x E-3	(-4.6 ± 0.7) x E-5
11	(2.5 ± 0.6) x E-5	(-1.2 ± 0.5) x E-5
12	(7 ± 5) x E-6	(-1.5 ± 0.4) x E-5
13	(-4 ± 4) x E-6	(-3.9 ± 0.5) x E-5
14	(-7.47 ± 0.07) x E-4	(-1 ± 3) x E-6
15	(-3.7 ± 0.5) x E-5	(9 ± 7) x E-6