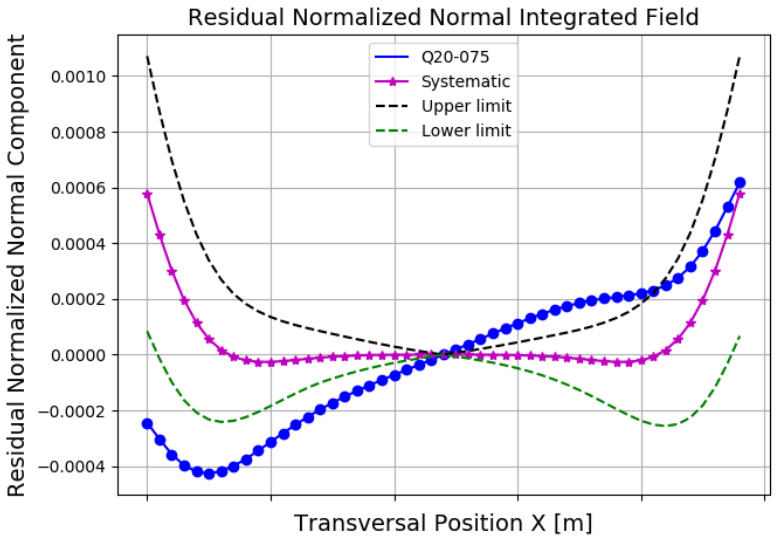
Q20-075

STORAGE RING MAGNET REPORT

Results	
Date	24/05/2018
Hour	16:26:00
Temperature [°C]	23.43
Number of Measurements	9
Main Coil Current [A]	(157.3574 ± 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]	(-9.08259 ± 0.00003)
Magnet Center Offset X [μm] - (< ±40.0)	(3.23 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(16.20 ± 0.06)
Roll [mrad] - (< ±0.3)	(7.1 ± 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)	(-2.69 ± 0.02) x E-4	(-1.350 ± 0.005) x E-3
2 (quadrupole)	(1.000000 ± 0.000005)	(1.43 ± 0.04) x E-4
3 (sextupole)	(4.45 ± 0.02) x E-4	(4.79 ± 0.03) x E-4
4	(7.8 ± 0.3) x E-5	(-6.3 ± 0.5) x E-5
5	(1.2 ± 0.3) x E-5	(-4.3 ± 0.4) x E-5
6	(-8.74 ± 0.04) x E-4	(6.6 ± 0.4) x E-5
7	(-2.1 ± 0.3) x E-5	(-2.9 ± 0.6) x E-5
8	(8 ± 5) x E-6	(-2 ± 5) x E-6
9	(-6 ± 4) x E-6	(-1.6 ± 0.6) x E-5
10	(1.689 ± 0.004) x E-3	(-1.7 ± 0.1) x E-5
11	(5 ± 6) x E-6	(3 ± 5) x E-6
12	(2 ± 4) x E-6	(1.4 ± 0.4) x E-5
13	(2.0 ± 84.9) x E-7	(1.2 ± 0.4) x E-5
14	(-7.16 ± 0.05) x E-4	(5 ± 6) x E-6
15	(-4 ± 5) x E-6	(3 ± 5) x E-6