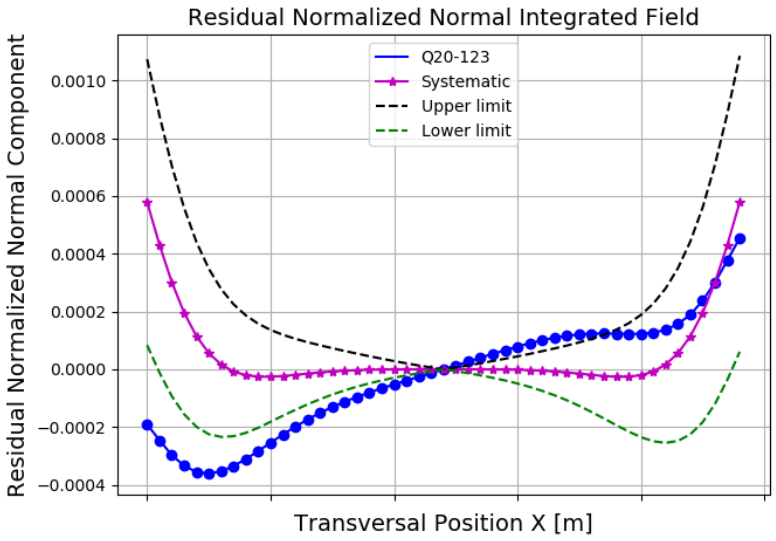
Q20-123

STORAGE RING MAGNET REPORT

Results	
Date	29/05/2018
Hour	10:38:11
Temperature [°C]	22.67
Number of Measurements	9
Main Coil Current [A]	(157.4378 ± 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]	(-9.07307 ± 0.00003)
Magnet Center Offset X [μm] - (< ±40.0)	(6.79 ± 0.04)
Magnet Center Offset Y [μm] - (< ±40.0)	(4.39 ± 0.04)
Roll [mrad] - (< ±0.3)	(1.23 ± 0.01) x E-1
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)	(-5.66 ± 0.04) x E-4	(-3.66 ± 0.03) x E-4
2 (quadrupole)	(1.000000 ± 0.000005)	(2.45 ± 0.03) x E-4
3 (sextupole)	(3.17 ± 0.02) x E-4	(2.49 ± 0.04) x E-4
4	(4.3 ± 0.4) x E-5	(-2.4 ± 0.4) x E-5
5	(2.4 ± 0.3) x E-5	(-5.3 ± 0.4) x E-5
6	(-8.76 ± 0.03) x E-4	(6.2 ± 0.3) x E-5
7	(-7 ± 5) x E-6	(-1.1 ± 0.6) x E-5
8	(6 ± 2) x E-6	(-2.1 ± 0.2) x E-5
9	(-9 ± 4) x E-6	(1.6 ± 0.4) x E-5
10	(1.662 ± 0.003) x E-3	(-3.2 ± 0.6) x E-5
11	(4 ± 5) x E-6	(4 ± 4) x E-6
12	(-6 ± 4) x E-6	(2.5 ± 0.4) x E-5
13	(4.1 ± 42.8) x E-7	(-1.5 ± 0.3) x E-5
14	(-6.98 ± 0.03) x E-4	(8 ± 4) x E-6
15	(-6 ± 4) x E-6	(8 ± 4) x E-6