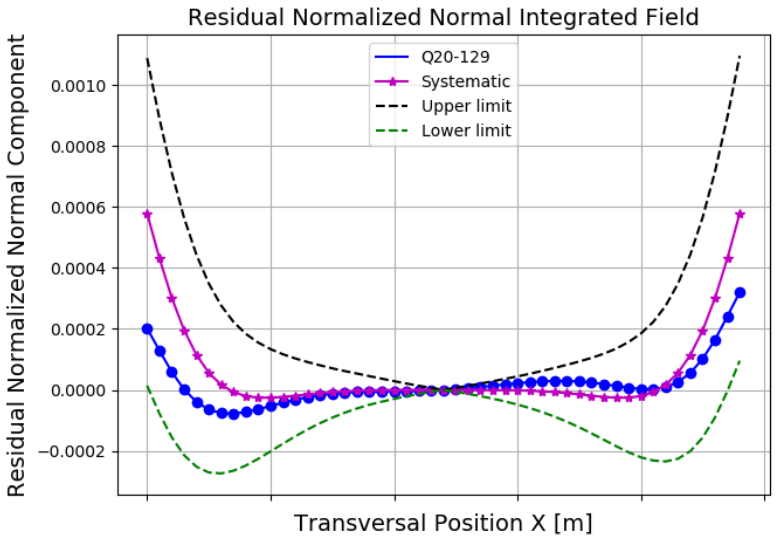
Q20-129

STORAGE RING MAGNET REPORT

Results	
Date	16/05/2018
Hour	09:05:35
Temperature [°C]	23.6
Number of Measurements	9
Main Coil Current [A]	(157.4377 ± 0.0004)
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]	(-9.08950 ± 0.00003)
Magnet Center Offset X [μm] - (< ±40.0)	(9.10 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(1.04 ± 0.03)
Roll [mrad] - (< ±0.3)	(-1.12 ± 0.02) 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)	(-7.59 ± 0.02) x E-4	(-8.7 ± 0.3) x E-5
2 (quadrupole)	(1.000000 ± 0.000005)	(-2.25 ± 0.03) x E-4
3 (sextupole)	(5.6 ± 0.1) x E-5	(2.82 ± 0.03) x E-4
4	(1.79 ± 0.02) x E-4	(-3.7 ± 0.3) x E-5
5	(-2 ± 3) x E-6	(-2.8 ± 0.3) x E-5
6	(-8.80 ± 0.03) x E-4	(6.3 ± 0.3) x E-5
7	(9 ± 1) x E-6	(-1.2 ± 0.3) x E-5
8	(-8 ± 2) x E-6	(-5 ± 2) x E-6
9	(-7 ± 3) x E-6	(4 ± 3) x E-6
10	(1.677 ± 0.003) x E-3	(-3.8 ± 0.3) x E-5
11	(-3 ± 5) x E-6	(6 ± 4) x E-6
12	(6 ± 3) x E-6	(8 ± 2) x E-6
13	(5 ± 3) x E-6	(2 ± 4) x E-6
14	(-7.12 ± 0.03) x E-4	(1.1 ± 0.3) x E-5
15	(9.0 ± 39.7) x E-7	(-2 ± 2) x E-6