



# Q20-130

## STORAGE RING MAGNET REPORT

### Results

Date 15/05/2018

Hour 14:47:07

Temperature [°C] 23.46

Number of Measurements 9

Main Coil Current [A] (157.3576 ± 0.0006)

Integrated Gradient [T] (-9.08061 ± 0.00003)

Magnet Center Offset X [μm] - (< ±40.0) (1.38 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (9.91 ± 0.07)

Roll [mrad] - (< ±0.3) (-2.5 ± 0.3) x E-2

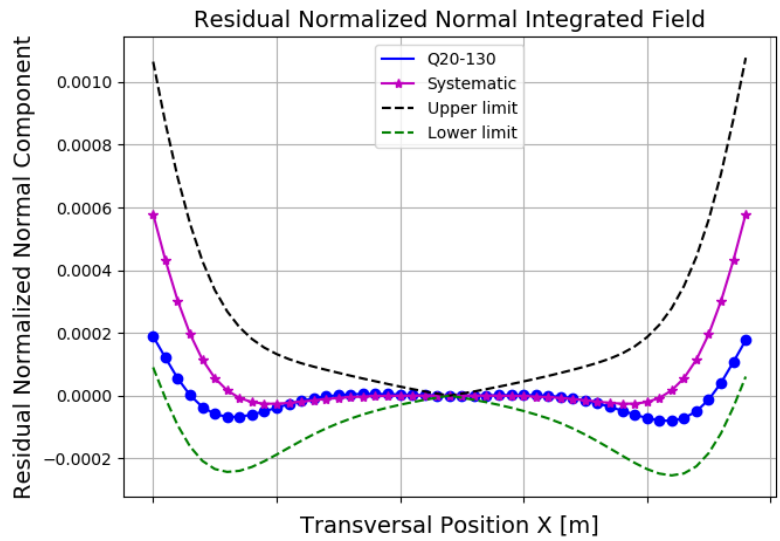
### Electric Parameters

Inductance [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 <sup>(2-n)</sup> ]	Normalized Skew Multipoles x=12.0 mm [T.m <sup>(2-n)</sup> ]
1 (dipole)	(-1.15 ± 0.03) x E-4	(-8.26 ± 0.05) x E-4
2 (quadrupole)	(1.000000 ± 0.000005)	(-5.0 ± 0.6) x E-5
3 (sextupole)	(-7 ± 2) x E-6	(5.0 ± 0.5) x E-5
4	(1.13 ± 0.03) x E-4	(1.5 ± 0.5) x E-5
5	(-7 ± 2) x E-6	(1.8 ± 0.5) x E-5
6	(-8.88 ± 0.03) x E-4	(8.3 ± 0.5) x E-5
7	(7 ± 3) x E-6	(8 ± 3) x E-6
8	(-10 ± 3) x E-6	(-1.4 ± 0.5) x E-5
9	(-3 ± 3) x E-6	(-1.8 ± 0.4) x E-5
10	(1.666 ± 0.003) x E-3	(-5.0 ± 0.5) x E-5
11	(-7.0 ± 31.0) x E-7	(-8 ± 5) x E-6
12	(6 ± 4) x E-6	(1.2 ± 0.4) x E-5
13	(3 ± 3) x E-6	(1.3 ± 0.5) x E-5
14	(-7.05 ± 0.04) x E-4	(2.1 ± 0.7) x E-5
15	(2.27 ± 468.53) x E-8	(4 ± 5) x E-6

