



Q30-015

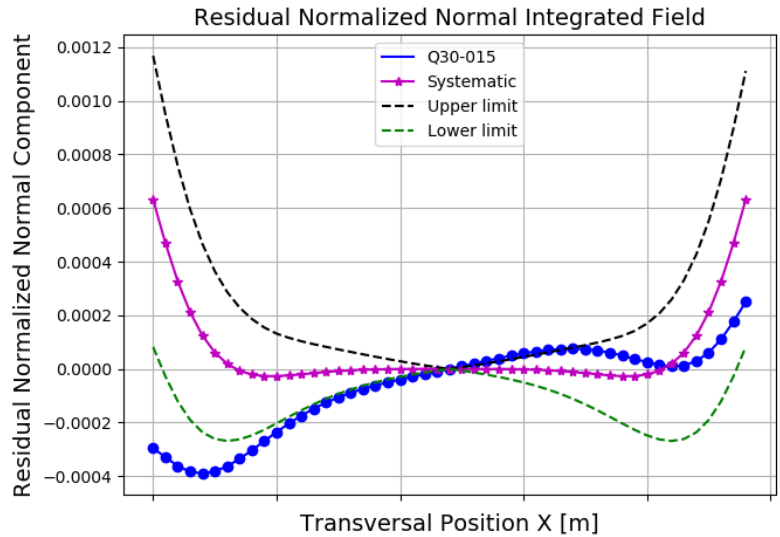
STORAGE RING MAGNET REPORT

Results

Date	04/05/2018
Hour	09:15:38
Temperature [°C]	23.49
Number of Measurements	9
Main Coil Current [A]	(154.9967 ± 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]	(-13.62964 ± 0.00003)
Magnet Center Offset X [μm] - (< ±40.0)	(-6.25 ± 0.04)
Magnet Center Offset Y [μm] - (< ±40.0)	(2.17 ± 0.06)
Roll [mrad] - (< ±0.3)	(-3.38 ± 0.02) × E-1

Electric Parameters

Inductance [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)	(5.20 ± 0.04) × E-4	(-1.81 ± 0.05) × E-4
2 (quadrupole)	(1.000000 ± 0.000004)	(-6.76 ± 0.05) × E-4
3 (sextupole)	(2.37 ± 0.05) × E-4	(3.63 ± 0.08) × E-4
4	(4.1 ± 0.5) × E-5	(-5 ± 8) × E-6
5	(2.3 ± 0.7) × E-5	(-5.6 ± 0.7) × E-5
6	(-1.112 ± 0.008) × E-3	(1.43 ± 0.07) × E-4
7	(9.8 ± 65.4) × E-7	(-3.1 ± 0.7) × E-5
8	(-1.0 ± 0.7) × E-5	(-2.2 ± 0.9) × E-5
9	(-1 ± 1) × E-5	(1 ± 8) × E-6
10	(1.762 ± 0.007) × E-3	(-8.9 ± 1.0) × E-5
11	(-7 ± 7) × E-6	(2.8 ± 0.9) × E-5
12	(4 ± 7) × E-6	(2.8 ± 0.8) × E-5
13	(1.5 ± 0.8) × E-5	(9.3 ± 11.1) × E-6
14	(-7.07 ± 0.09) × E-4	(4.8 ± 0.9) × E-5
15	(1.9 ± 0.9) × E-5	(-1.6 ± 0.6) × E-5

