



S15-044

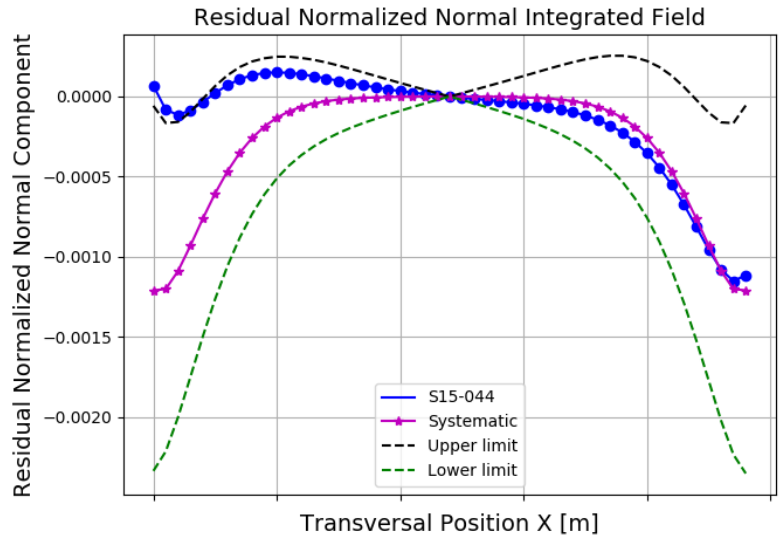
STORAGE RING MAGNET REPORT

Results

Date	10/08/2018
Hour	16:12:40
Temperature [°C]	23.437
Number of Measurements	9
Main Coil Current [A]	(167.798 ± 0.001)
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/m]	(-361.104 ± 0.002)
Magnet Center Offset X [μm] - (< ±40.0)	(18.32 ± 0.01)
Magnet Center Offset Y [μm] - (< ±40.0)	(23.22 ± 0.02)
Roll [mrad] - (< ±0.3)	(1.29 ± 0.02) x E-1

Electric Parameters

Inductance [mH]	3.157
Voltage [V]	6.0106
Resistance [mΩ]	35.82
Main Coil Number of Turns	11.25



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)	(-6.39 ± 0.02) x E-4	(3.18 ± 0.02) x E-4
2 (quadrupole)	(-3.053 ± 0.002) x E-3	(-3.870 ± 0.004) x E-3
3 (sextupole)	(1.000000 ± 0.000008)	(3.87 ± 0.05) x E-4
4	(-1.78 ± 0.03) x E-4	(8.1 ± 0.6) x E-5
5	(9.5 ± 0.4) x E-5	(-1.07 ± 0.03) x E-4
6	(-4.27 ± 0.05) x E-4	(-4.9 ± 0.6) x E-5
7	(6.7 ± 0.4) x E-5	(3.3 ± 51.1) x E-7
8	(3 ± 3) x E-6	(1.1 ± 0.4) x E-5
9	(-2.004 ± 0.004) x E-3	(7.3 ± 0.5) x E-5
10	(9 ± 4) x E-6	(-1.1 ± 0.3) x E-5
11	(5 ± 6) x E-6	(-9.3 ± 49.9) x E-7
12	(2.0 ± 0.5) x E-5	(-9 ± 6) x E-6
13	(-7 ± 5) x E-6	(7 ± 4) x E-6
14	(-1.9 ± 0.3) x E-5	(-3.0 ± 0.7) x E-5
15	(1.320 ± 0.005) x E-3	(4 ± 5) x E-6

