



S15-141

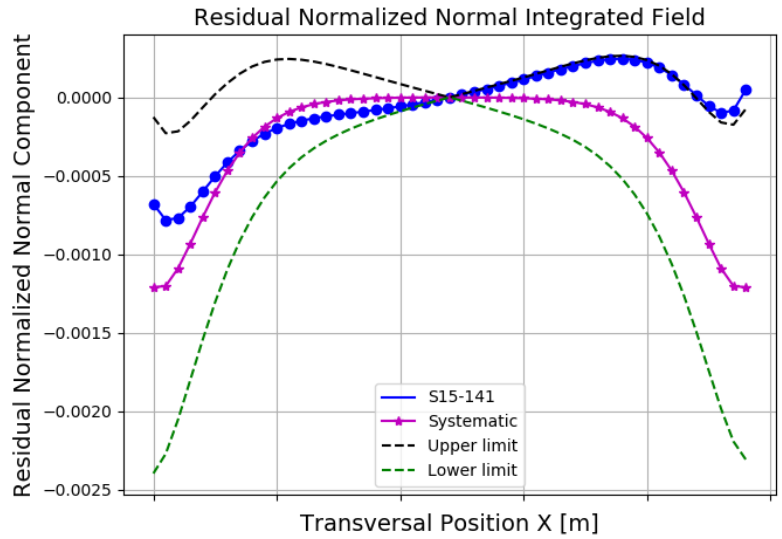
STORAGE RING MAGNET REPORT

Results

Date	14/08/2018
Hour	12:16:34
Temperature [°C]	23.459
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]	(-360.181 ± 0.003)
Magnet Center Offset X [μm] - (< ±40.0)	(4.36 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(27.72 ± 0.03)
Roll [mrad] - (< ±0.3)	(1.75 ± 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⁾]
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1 (dipole)	(-1.23 ± 0.03) x E-4	(-7.23 ± 0.05) x E-4
2 (quadrupole)	(-7.27 ± 0.03) x E-4	(-4.620 ± 0.005) x E-3
3 (sextupole)	(1.00000 ± 0.00001)	(5.26 ± 0.06) x E-4
4	(3.92 ± 0.03) x E-4	(2.84 ± 0.06) x E-4
5	(2.75 ± 0.04) x E-4	(-6.1 ± 0.4) x E-5
6	(-4.7 ± 0.4) x E-5	(-1.1 ± 0.6) x E-5
7	(7.4 ± 0.5) x E-5	(3.1 ± 0.7) x E-5
8	(1.6 ± 0.4) x E-5	(2.8 ± 0.8) x E-5
9	(-1.997 ± 0.006) x E-3	(1.58 ± 0.06) x E-4
10	(1 ± 8) x E-6	(-5 ± 7) x E-6
11	(-2 ± 6) x E-6	(-10 ± 8) x E-6
12	(-4.2 ± 66.9) x E-7	(9 ± 6) x E-6
13	(-8 ± 6) x E-6	(1 ± 8) x E-6
14	(8.9 ± 47.3) x E-7	(-2.9 ± 0.7) x E-5
15	(1.343 ± 0.007) x E-3	(-2.1 ± 0.8) x E-5

