



S15-262

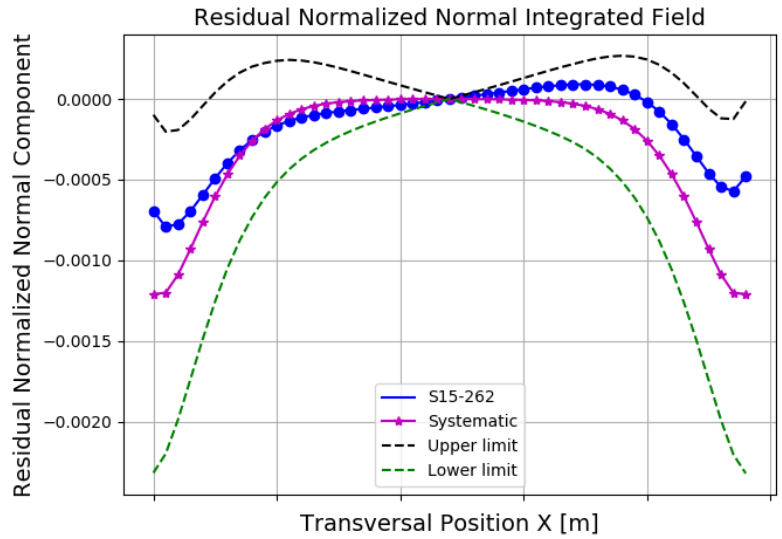
STORAGE RING MAGNET REPORT

Results

Date	18/07/2018
Hour	08:49:05
Temperature [°C]	23.115
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]	(-359.741 ± 0.003)
Magnet Center Offset X [μm] - (< ±40.0)	(12.21 ± 0.03)
Magnet Center Offset Y [μm] - (< ±40.0)	(15.9 ± 0.1)
Roll [mrad] - (< ±0.3)	(1.01 ± 0.07) 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)	(1.43 ± 0.04) x E-4	(-1.2 ± 0.2) x E-4
2 (quadrupole)	(-2.035 ± 0.006) x E-3	(-2.65 ± 0.02) x E-3
3 (sextupole)	(1.00000 ± 0.00001)	(3.0 ± 0.2) x E-4
4	(2.3 ± 0.1) x E-4	(-9 ± 1) x E-5
5	(7 ± 1) x E-5	(-6 ± 2) x E-5
6	(-1.26 ± 0.09) x E-4	(-4 ± 2) x E-5
7	(-5 ± 7) x E-6	(5.7 ± 16.1) x E-6
8	(-1.3 ± 1.0) x E-5	(2 ± 1) x E-5
9	(-2.02 ± 0.02) x E-3	(4.6 ± 0.2) x E-4
10	(3.4 ± 10.8) x E-6	(2 ± 1) x E-5
11	(2.7 ± 18.6) x E-6	(4.4 ± 12.6) x E-6
12	(2.8 ± 15.7) x E-6	(-8.9 ± 80.3) x E-7
13	(-7.59 ± 116.46) x E-7	(-4.0 ± 14.4) x E-6
14	(4.3 ± 20.5) x E-6	(-3 ± 3) x E-5
15	(1.36 ± 0.02) x E-3	(-3 ± 2) x E-5

