



S15-138

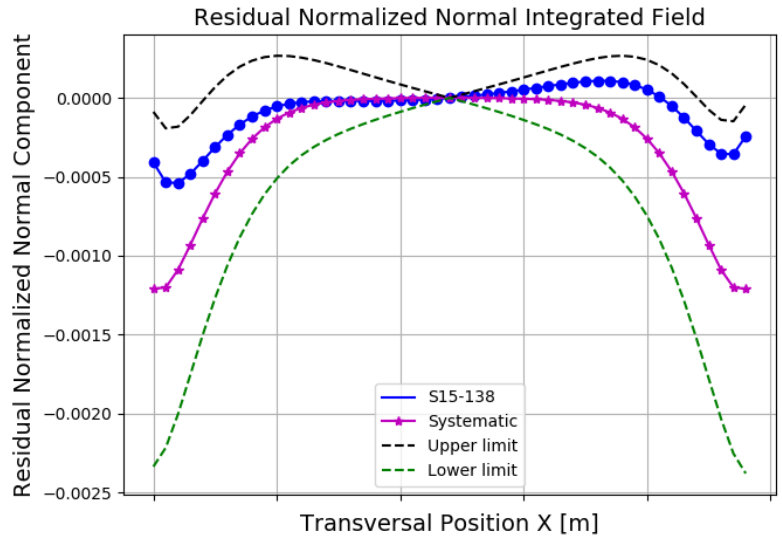
## STORAGE RING MAGNET REPORT

### Results

Date	16/08/2018
Hour	11:49:37
Temperature [°C]	23.55
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]	(-360.050 ± 0.004)
Magnet Center Offset X [μm] - (< ±40.0)	(9.55 ± 0.05)
Magnet Center Offset Y [μm] - (< ±40.0)	(19.30 ± 0.05)
Roll [mrad] - (< ±0.3)	(1.87 ± 0.06) 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 <sup>(2-n)</sup> ]	Normalized Skew Multipoles x=12.0 mm [T.m <sup>(2-n)</sup> ]
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1 (dipole)	(9 ± 1) x E-5	(-2.7 ± 0.9) x E-5
2 (quadrupole)	(-1.592 ± 0.008) x E-3	(-3.217 ± 0.009) x E-3
3 (sextupole)	(1.00000 ± 0.00001)	(5.6 ± 0.2) x E-4
4	(1.4 ± 0.1) x E-4	(5 ± 1) x E-5
5	(2.68 ± 0.09) x E-4	(-2.0 ± 0.1) x E-4
6	(-3.6 ± 0.7) x E-5	(-1.3 ± 12.4) x E-6
7	(8.7 ± 0.7) x E-5	(5.0 ± 0.4) x E-5
8	(-2.7 ± 10.6) x E-6	(1.9 ± 1.0) x E-5
9	(-2.04 ± 0.01) x E-3	(1.03 ± 0.08) x E-4
10	(-5.7 ± 10.2) x E-6	(8 ± 8) x E-6
11	(5.5 ± 86.0) x E-7	(-3.0 ± 14.2) x E-6
12	(-4.0 ± 11.6) x E-6	(-1.3 ± 0.9) x E-5
13	(-8 ± 7) x E-6	(1 ± 9) x E-6
14	(-1.3 ± 0.8) x E-5	(-4 ± 1) x E-5
15	(1.37 ± 0.01) x E-3	(9 ± 1) x E-5

