



S15-216

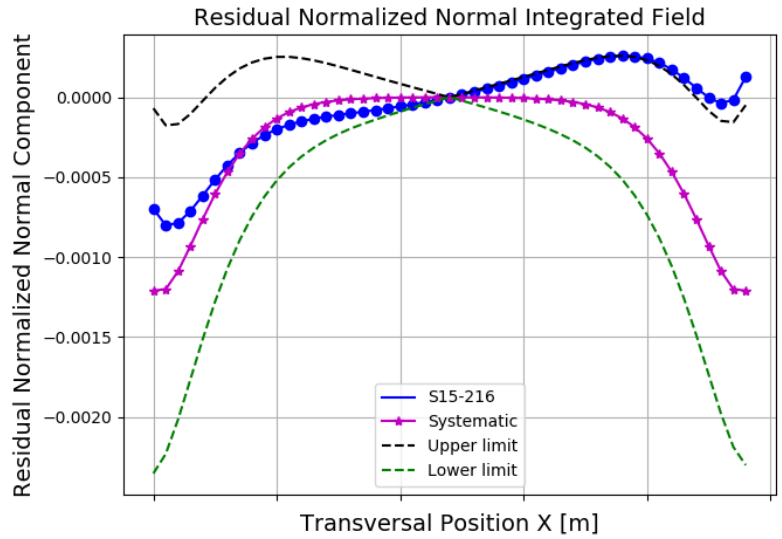
STORAGE RING MAGNET REPORT

Results

Date	15/08/2018
Hour	15:56:21
Temperature [°C]	23.162
Number of Measurements	9
Main Coil Current [A]	(167.798 ± 0.002)
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]	(-359.504 ± 0.003)
Magnet Center Offset X [μm] - (< ±40.0)	(11.58 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(21.88 ± 0.07)
Roll [mrad] - (< ±0.3)	(1.47 ± 0.04) 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)	(-2.24 ± 0.04) x E-4	(1.6 ± 0.1) x E-4
2 (quadrupole)	(-1.930 ± 0.004) x E-3	(-3.65 ± 0.01) x E-3
3 (sextupole)	(1.00000 ± 0.00001)	(4.4 ± 0.1) x E-4
4	(3.87 ± 0.07) x E-4	(-1.4 ± 0.1) x E-4
5	(2.8 ± 0.1) x E-4	(8 ± 1) x E-5
6	(1 ± 1) x E-5	(-1.7 ± 0.7) x E-5
7	(1.21 ± 0.09) x E-4	(-5 ± 1) x E-5
8	(2 ± 1) x E-5	(4 ± 1) x E-5
9	(-2.026 ± 0.007) x E-3	(1.2 ± 0.1) x E-4
10	(-4 ± 7) x E-6	(1.7 ± 0.7) x E-5
11	(9.8 ± 11.5) x E-6	(-3.6 ± 1.0) x E-5
12	(1.03 ± 553.56) x E-8	(2 ± 1) x E-5
13	(-2.3 ± 0.8) x E-5	(8.8 ± 14.5) x E-6
14	(-3.1 ± 12.2) x E-6	(-3.8 ± 0.9) x E-5
15	(1.36 ± 0.01) x E-3	(4.7 ± 1.0) x E-5

