



S15-218

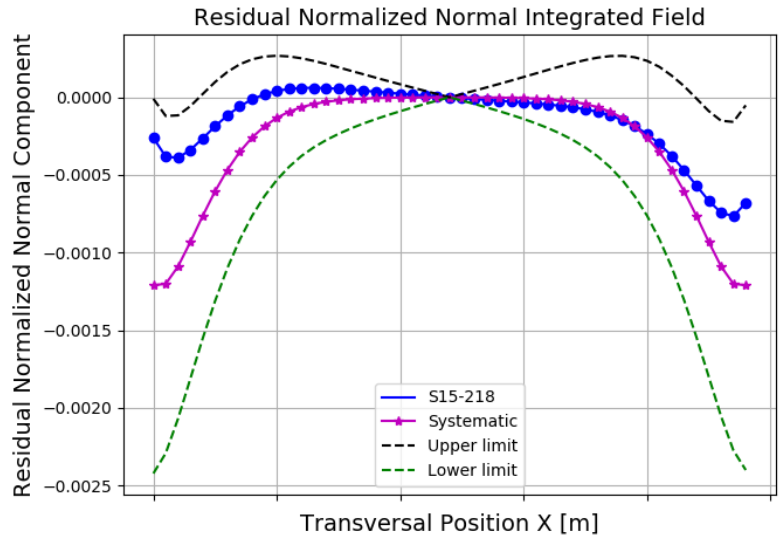
STORAGE RING MAGNET REPORT

Results

Date	23/07/2018
Hour	10:37:38
Temperature [°C]	23.727
Number of Measurements	9
Main Coil Current [A]	(167.799 ± 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]	(-359.71 ± 0.01)
Magnet Center Offset X [μm] - (< ±40.0)	(14.7 ± 0.1)
Magnet Center Offset Y [μm] - (< ±40.0)	(31.3 ± 0.2)
Roll [mrad] - (< ±0.3)	(5.2 ± 18.3) × E-3

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)	(-3.8 ± 0.2) × E-4	(-7 ± 4) × E-5
2 (quadrupole)	(-2.45 ± 0.02) × E-3	(-5.22 ± 0.04) × E-3
3 (sextupole)	(1.00000 ± 0.00005)	(2 ± 5) × E-5
4	(-1.3 ± 0.3) × E-4	(2.4 ± 0.5) × E-4
5	(3 ± 4) × E-5	(2.2 ± 0.4) × E-4
6	(-9 ± 3) × E-5	(-4 ± 5) × E-5
7	(7 ± 5) × E-5	(-7 ± 3) × E-5
8	(4 ± 3) × E-5	(-9.5 ± 49.2) × E-6
9	(-1.85 ± 0.03) × E-3	(5.5 ± 0.4) × E-4
10	(-1.2 ± 30.3) × E-6	(1 ± 4) × E-5
11	(4 ± 4) × E-5	(5 ± 4) × E-5
12	(-5.8 ± 31.0) × E-6	(1 ± 4) × E-5
13	(2.4 ± 47.0) × E-6	(-2 ± 4) × E-5
14	(-2 ± 3) × E-5	(-8.7 ± 35.6) × E-6
15	(1.23 ± 0.06) × E-3	(8.4 ± 48.9) × E-6

