



S15-183

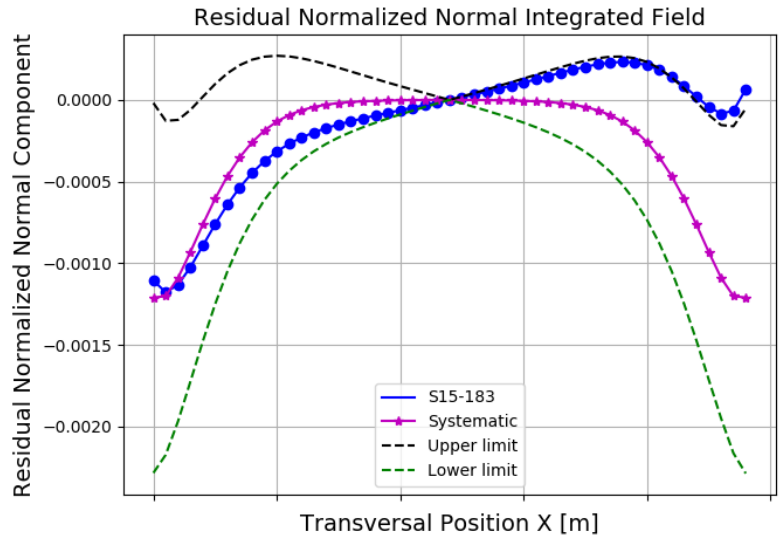
STORAGE RING MAGNET REPORT

Results

Date	16/08/2018
Hour	10:22:39
Temperature [°C]	23.534
Number of Measurements	9
Main Coil Current [A]	(167.80 ± 0.01)
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]	(-359.974 ± 0.003)
Magnet Center Offset X [μm] - (< ±40.0)	(5.58 ± 0.07)
Magnet Center Offset Y [μm] - (< ±40.0)	(31.85 ± 0.06)
Roll [mrad] - (< ±0.3)	(1.58 ± 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⁾]
---	--	--

1 (dipole)	(-7.01 ± 0.04) x E-4	(5.7 ± 0.1) x E-4
2 (quadrupole)	(-9.3 ± 0.1) x E-4	(-5.309 ± 0.010) x E-3
3 (sextupole)	(1.00000 ± 0.00001)	(4.7 ± 0.2) x E-4
4	(3.9 ± 0.1) x E-4	(1.8 ± 0.2) x E-4
5	(9 ± 1) x E-5	(2.1 ± 0.2) x E-4
6	(2.4 ± 0.3) x E-4	(-8.9 ± 11.5) x E-6
7	(4 ± 1) x E-5	(-1.0 ± 0.2) x E-4
8	(5.1 ± 21.4) x E-6	(5 ± 3) x E-5
9	(-2.01 ± 0.02) x E-3	(2.3 ± 0.3) x E-4
10	(1 ± 2) x E-5	(4 ± 2) x E-5
11	(1 ± 2) x E-5	(-2 ± 2) x E-5
12	(-4 ± 2) x E-5	(-1 ± 2) x E-5
13	(-2 ± 2) x E-5	(2 ± 1) x E-5
14	(-2 ± 2) x E-5	(-6 ± 3) x E-5
15	(1.36 ± 0.02) x E-3	(3 ± 2) x E-5

