



# S15-243

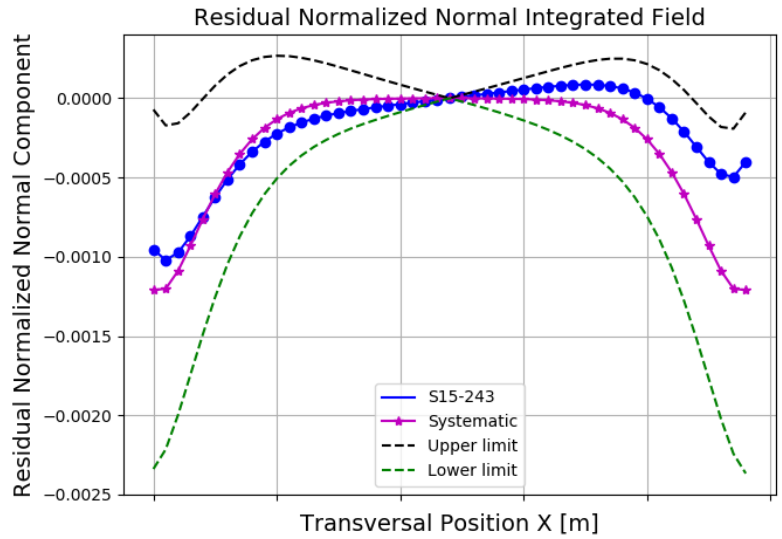
## STORAGE RING MAGNET REPORT

### Results

Date	09/08/2018
Hour	09:05:01
Temperature [°C]	23.523
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]	(-360.129 ± 0.003)
Magnet Center Offset X [μm] - (< ±40.0)	(-2.38 ± 0.02)
Magnet Center Offset Y [μm] - (< ±40.0)	(26.72 ± 0.02)
Roll [mrad] - (< ±0.3)	(2.87 ± 0.10) x E-2

### 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> ]
1 (dipole)	(1.68 ± 0.06) x E-4	(-9.6 ± 0.6) x E-5
2 (quadrupole)	(3.97 ± 0.03) x E-4	(-4.453 ± 0.004) x E-3
3 (sextupole)	(1.000000 ± 0.000010)	(8.6 ± 0.3) x E-5
4	(2.19 ± 0.03) x E-4	(2.23 ± 0.04) x E-4
5	(-1.5 ± 0.3) x E-5	(2.4 ± 0.3) x E-5
6	(8.3 ± 0.2) x E-5	(-1.4 ± 0.3) x E-5
7	(8 ± 4) x E-6	(-1.7 ± 0.3) x E-5
8	(-2.5 ± 0.4) x E-5	(2.4 ± 0.5) x E-5
9	(-1.999 ± 0.004) x E-3	(3.0 ± 0.4) x E-5
10	(2 ± 4) x E-6	(-8 ± 4) x E-6
11	(-2 ± 3) x E-6	(-10 ± 3) x E-6
12	(-9 ± 4) x E-6	(-4 ± 3) x E-6
13	(-8.8 ± 31.7) x E-7	(1.4 ± 0.2) x E-5
14	(6 ± 5) x E-6	(-4.2 ± 0.5) x E-5
15	(1.330 ± 0.003) x E-3	(1.6 ± 0.3) x E-5

