



S15-198

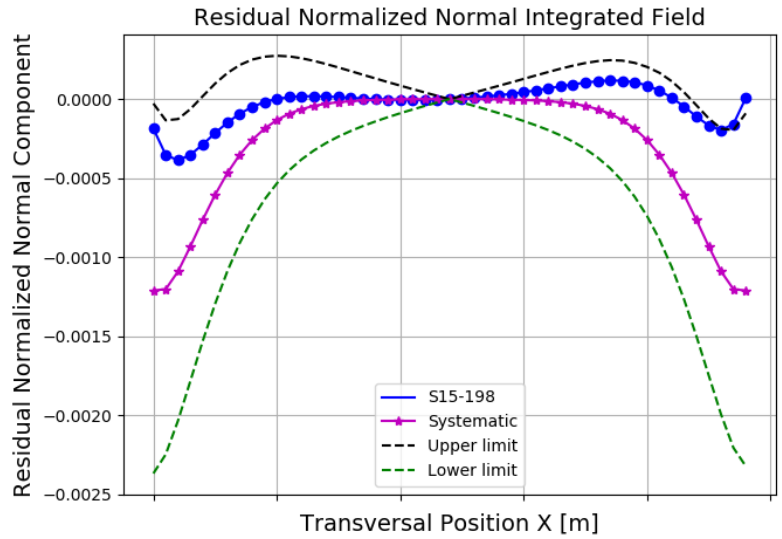
STORAGE RING MAGNET REPORT

Results

Date	25/07/2018
Hour	15:45:05
Temperature [°C]	23.529
Number of Measurements	9
Main Coil Current [A]	(167.7974 ± 0.0008)
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]	(-359.471 ± 0.003)
Magnet Center Offset X [μm] - (< ±40.0)	(14.69 ± 0.05)
Magnet Center Offset Y [μm] - (< ±40.0)	(26.40 ± 0.09)
Roll [mrad] - (< ±0.3)	(1.35 ± 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 ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles x=12.0 mm [T.m ⁽²⁻ⁿ⁾]
1 (dipole)	(-5.16 ± 0.05) x E-4	(3.0 ± 0.1) x E-4
2 (quadrupole)	(-2.449 ± 0.008) x E-3	(-4.40 ± 0.02) x E-3
3 (sextupole)	(1.00000 ± 0.00001)	(4.0 ± 0.2) x E-4
4	(8 ± 1) x E-5	(2.6 ± 0.2) x E-4
5	(3.6 ± 0.2) x E-4	(6.3 ± 11.8) x E-6
6	(4 ± 2) x E-5	(-2 ± 2) x E-5
7	(10 ± 3) x E-5	(-3 ± 2) x E-5
8	(4.7 ± 15.1) x E-6	(1 ± 2) x E-5
9	(-1.93 ± 0.03) x E-3	(4.2 ± 0.2) x E-4
10	(-3 ± 2) x E-5	(-7 ± 9) x E-6
11	(-7.9 ± 31.1) x E-6	(3.3 ± 17.5) x E-6
12	(5.2 ± 25.1) x E-6	(-1 ± 3) x E-5
13	(-6.8 ± 12.6) x E-6	(2 ± 2) x E-5
14	(-1 ± 2) x E-5	(-4 ± 3) x E-5
15	(1.40 ± 0.02) x E-3	(6 ± 2) x E-5

