



S15-178

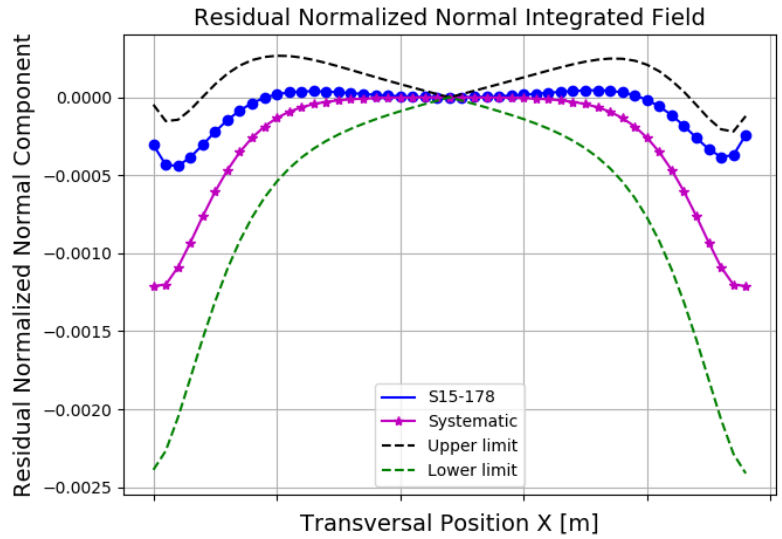
STORAGE RING MAGNET REPORT

Results

Date	16/08/2018
Hour	08:58:51
Temperature [°C]	23.599
Number of Measurements	9
Main Coil Current [A]	(167.799 ± 0.005)
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]	(-359.605 ± 0.003)
Magnet Center Offset X [μm] - (< ±40.0)	(13.04 ± 0.06)
Magnet Center Offset Y [μm] - (< ±40.0)	(29.49 ± 0.07)
Roll [mrad] - (< ±0.3)	(2.02 ± 0.05) 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)	(-6.42 ± 0.07) x E-4	(1.07 ± 0.08) x E-4
2 (quadrupole)	(-2.17 ± 0.01) x E-3	(-4.91 ± 0.01) x E-3
3 (sextupole)	(1.00000 ± 0.00001)	(6.1 ± 0.1) x E-4
4	(-6.49 ± 135.08) x E-7	(1.5 ± 0.1) x E-4
5	(2.7 ± 0.2) x E-4	(-7 ± 1) x E-5
6	(3 ± 1) x E-5	(2.1 ± 0.9) x E-5
7	(8.8 ± 1.0) x E-5	(10.0 ± 10.8) x E-6
8	(1.4 ± 0.8) x E-5	(-1 ± 1) x E-5
9	(-1.97 ± 0.01) x E-3	(1.4 ± 0.1) x E-4
10	(1 ± 2) x E-5	(1 ± 1) x E-5
11	(2 ± 7) x E-6	(-5.3 ± 18.5) x E-6
12	(4.4 ± 12.9) x E-6	(-8.9 ± 14.7) x E-6
13	(-7.8 ± 10.4) x E-6	(2 ± 1) x E-5
14	(-3 ± 1) x E-5	(-1 ± 1) x E-5
15	(1.35 ± 0.01) x E-3	(6.4 ± 0.9) x E-5

