



S15-038

## STORAGE RING MAGNET REPORT

### Results

Date 29/06/2018

Hour 16:17:47

Temperature [°C] 24.077

Number of Measurements 9

Main Coil Current [A] (167.7968 ± 0.0009)

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] (-360.377 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (12.64 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (23.61 ± 0.04)

Roll [mrad] - (< ±0.3) (-8.3 ± 0.2) × E-2

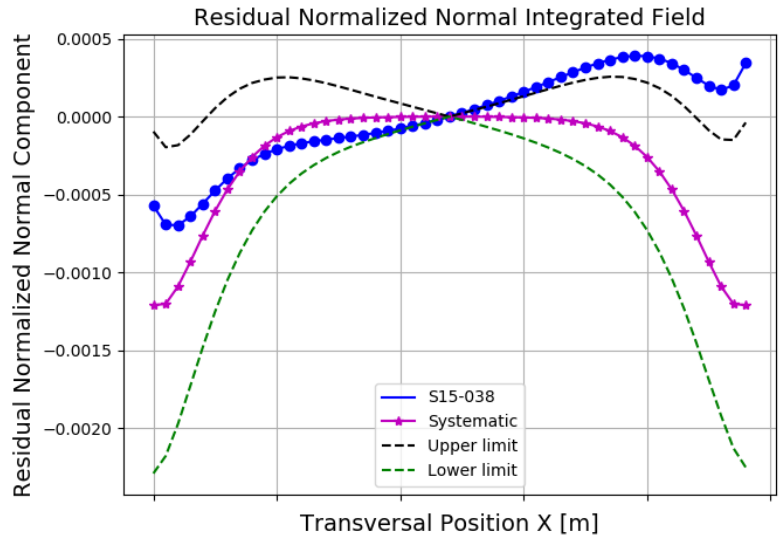
### Electric Parameters

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)	(-1.265 ± 0.003) × E-3	(1.33 ± 0.05) × E-4
2 (quadrupole)	(-2.107 ± 0.004) × E-3	(-3.934 ± 0.006) × E-3
3 (sextupole)	(1.00000 ± 0.00001)	(-2.49 ± 0.05) × E-4
4	(5.32 ± 0.06) × E-4	(-1.73 ± 0.07) × E-4
5	(4.26 ± 0.04) × E-4	(9.3 ± 0.5) × E-5
6	(-8.3 ± 0.5) × E-5	(-2.6 ± 0.6) × E-5
7	(1.65 ± 0.07) × E-4	(-4.1 ± 0.7) × E-5
8	(2.3 ± 0.7) × E-5	(3.4 ± 0.9) × E-5
9	(-2.025 ± 0.009) × E-3	(1.07 ± 0.07) × E-4
10	(6 ± 7) × E-6	(10 ± 4) × E-6
11	(-2 ± 7) × E-6	(-1.6 ± 0.8) × E-5
12	(-1.7 ± 55.8) × E-7	(4 ± 6) × E-6
13	(-6 ± 8) × E-6	(1.8 ± 0.6) × E-5
14	(-2.1 ± 0.9) × E-5	(-5.7 ± 1.0) × E-5
15	(1.327 ± 0.006) × E-3	(-7 ± 7) × E-6

