



S15-060

STORAGE RING MAGNET REPORT

Results

Date 03/07/2018

Hour 09:31:55

Temperature [°C] 23.472

Number of Measurements 9

Main Coil Current [A] (167.7995 ± 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] (-358.807 ± 0.003)

Magnet Center Offset X [μm] - (< ±40.0) (18.26 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (26.28 ± 0.06)

Roll [mrad] - (< ±0.3) (-7.5 ± 0.3) × E-2

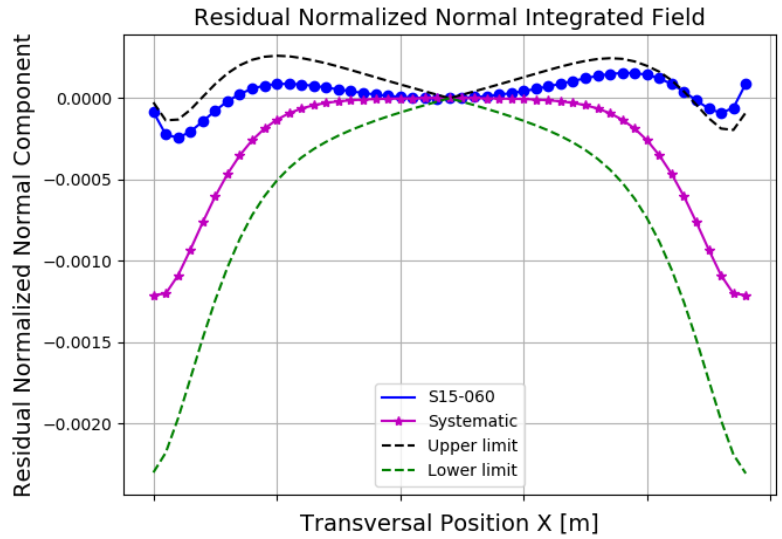
Electric Parameters

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 ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles x=12.0 mm [T.m ⁽²⁻ⁿ⁾]
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1 (dipole)	(-6.29 ± 0.04) × E-4	(1 ± 1) × E-5
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2 (quadrupole)	(-3.043 ± 0.006) × E-3	(-4.379 ± 0.010) × E-3
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3 (sextupole)	(1.00000 ± 0.00001)	(-2.24 ± 0.08) × E-4
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4	(3.8 ± 0.7) × E-5	(3.9 ± 0.1) × E-4
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5	(5.22 ± 0.07) × E-4	(1.42 ± 0.10) × E-4
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6	(6.2 ± 0.6) × E-5	(-2.1 ± 10.0) × E-6
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7	(1.84 ± 0.05) × E-4	(-7.0 ± 1.0) × E-5
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8	(-9 ± 4) × E-6	(9 ± 10) × E-6
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9	(-2.014 ± 0.010) × E-3	(10 ± 1) × E-5
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10	(9 ± 7) × E-6	(-1.4 ± 0.9) × E-5
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11	(-4.3 ± 10.5) × E-6	(-1.7 ± 0.8) × E-5
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12	(-5 ± 7) × E-6	(-5 ± 6) × E-6
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13	(-2 ± 1) × E-5	(2.5 ± 0.8) × E-5
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14	(-8 ± 9) × E-6	(-3.0 ± 0.6) × E-5
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15	(1.335 ± 0.009) × E-3	(-8.432 ± 7856.543) × E-9
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