



S15-064

STORAGE RING MAGNET REPORT

Results

Date 28/06/2018

Hour 16:09:38

Temperature [°C] 24.062

Number of Measurements 9

Main Coil Current [A] (167.7963 ± 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] (-359.700 ± 0.002)

Magnet Center Offset X [μm] - (< ±40.0) (12.33 ± 0.03)

Magnet Center Offset Y [μm] - (< ±40.0) (21.25 ± 0.07)

Roll [mrad] - (< ±0.3) (-4.3 ± 0.3) × E-2

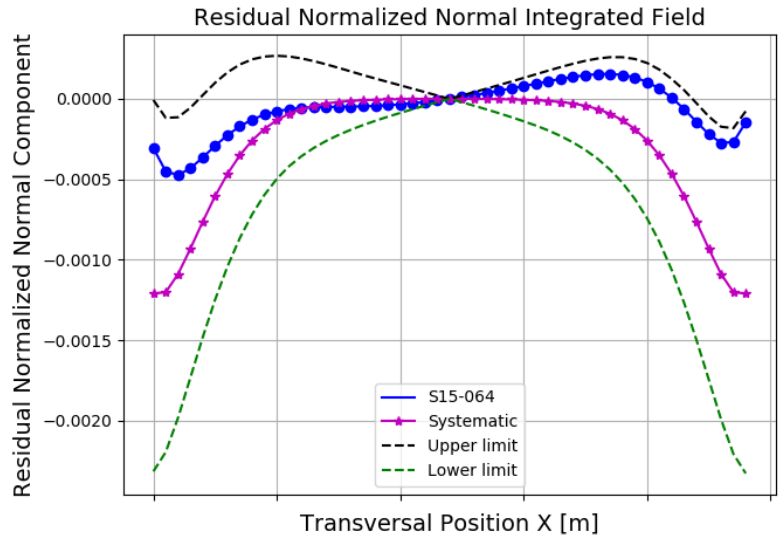
Electric Parameters

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)	(-9.69 ± 0.09) × E-4	(-2.14 ± 0.09) × E-4
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2 (quadrupole)	(-2.054 ± 0.005) × E-3	(-3.54 ± 0.01) × E-3
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3 (sextupole)	(1.000000 ± 0.000009)	(-1.28 ± 0.09) × E-4
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4	(2.58 ± 0.08) × E-4	(-2.0 ± 0.1) × E-4
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5	(2.86 ± 0.08) × E-4	(5.00 ± 0.10) × E-4
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6	(-1.99 ± 0.10) × E-4	(-1.5 ± 0.6) × E-5
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7	(1.18 ± 0.09) × E-4	(-1.3 ± 0.1) × E-4
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8	(3 ± 1) × E-5	(3.3 ± 0.9) × E-5
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9	(-1.960 ± 0.008) × E-3	(1.23 ± 0.09) × E-4
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10	(5 ± 7) × E-6	(1.6 ± 1.0) × E-5
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11	(-4 ± 7) × E-6	(-2 ± 1) × E-5
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12	(8 ± 8) × E-6	(-1 ± 7) × E-6
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13	(-2 ± 1) × E-5	(1 ± 1) × E-5
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14	(-1.9 ± 0.9) × E-5	(-4 ± 1) × E-5
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15	(1.355 ± 0.009) × E-3	(-1.5 ± 93.7) × E-7
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