



S15-073

STORAGE RING MAGNET REPORT

Results

Date 09/08/2018

Hour 15:25:37

Temperature [°C] 23.425

Number of Measurements 9

Main Coil Current [A] (167.798 ± 0.004)

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] (-359.431 ± 0.004)

Magnet Center Offset X [μm] - (< ±40.0) (33.30 ± 0.02)

Magnet Center Offset Y [μm] - (< ±40.0) (27.12 ± 0.03)

Roll [mrad] - (< ±0.3) (8.2 ± 0.2) × E-2

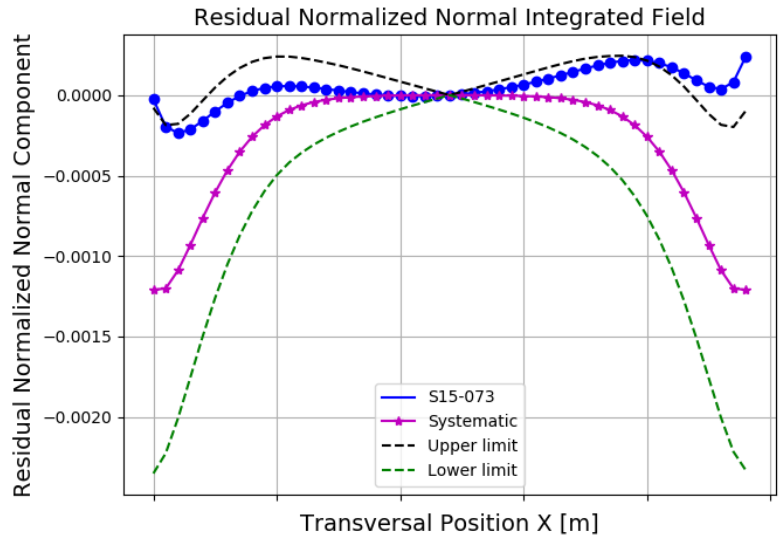
Electric Parameters

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 ⁽²⁻ⁿ⁾]	Normalized Skew Multipoles x=12.0 mm [T.m ⁽²⁻ⁿ⁾]
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1 (dipole)	(-4.76 ± 0.04) × E-4	(-4.38 ± 0.04) × E-4
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2 (quadrupole)	(-5.549 ± 0.003) × E-3	(-4.520 ± 0.005) × E-3
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3 (sextupole)	(1.00000 ± 0.00002)	(2.45 ± 0.05) × E-4
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4	(1.21 ± 0.05) × E-4	(-1.49 ± 0.04) × E-4
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5	(5.53 ± 0.05) × E-4	(-6.6 ± 0.5) × E-5
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6	(3.3 ± 0.4) × E-5	(-2 ± 3) × E-6
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7	(1.74 ± 0.03) × E-4	(1.1 ± 0.4) × E-5
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8	(3.6 ± 0.6) × E-5	(4.4 ± 0.5) × E-5
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9	(-1.937 ± 0.006) × E-3	(5.2 ± 0.4) × E-5
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10	(-3 ± 6) × E-6	(7 ± 5) × E-6
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11	(5.4 ± 69.5) × E-7	(-3.9 ± 53.4) × E-7
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12	(-5 ± 6) × E-6	(2 ± 6) × E-6
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13	(-2.0 ± 0.3) × E-5	(-1.1 ± 57.7) × E-7
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14	(-4.9 ± 0.7) × E-5	(-4.8 ± 0.5) × E-5
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15	(1.336 ± 0.008) × E-3	(1.1 ± 53.7) × E-7
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