

RADIATED EMISSIONS



Test Report #: WC601968 Run 1 Test Area: LTS

EUT Model #: FASY-0657-0001 Date: 4/5/2006

EUT Serial #: 53200430 EUT Power: 60Hz/220VAC Temperature: 21.0 °C

Test Method: FCC 15.247 Air Pressure: 99.0 kPa

Customer: HUNT TECHNOLOGIES Rel. Humidity: 34.0 %

EUT Description: WIRELESS METER READER

Notes:

Data File Name: 1968.dat

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List of measurements for run #: 1

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA1 FCC CLASS B - PK	DELTA2 FCC B >1GHz 3m
LOW CHANNEL - 909.58MHz.						
78.642 MHz	40.35 Qp	0.72 / 8.17 / 26.82 / 0.0	22.42	V / 1.00 / 0	n/a	n/a
83.55 MHz	40.5 Qp	0.75 / 7.42 / 26.83 / 0.0	21.84	V / 1.00 / 0	n/a	n/a
86.016 MHz	38.45 Qp	0.77 / 7.26 / 26.83 / 0.0	19.65	V / 1.00 / 0	n/a	n/a
98.299 MHz	47.45 Qp	0.82 / 8.04 / 26.84 / 0.0	29.47	V / 1.00 / 0	n/a	n/a
108.129 MHz	50.6 Qp	0.86 / 8.66 / 26.85 / 0.0	33.27	V / 1.00 / 0	n/a	n/a
127.787 MHz	51.85 Qp	0.92 / 8.65 / 26.87 / 0.0	34.56	V / 1.00 / 0	n/a	n/a
137.627 MHz	49.6 Qp	0.96 / 8.82 / 26.88 / 0.0	32.5	V / 1.00 / 0	n/a	n/a
142.535 MHz	49.3 Qp	0.98 / 9.61 / 26.88 / 0.0	33.0	V / 1.00 / 0	n/a	n/a
218.729 MHz	36.4 Qp	1.22 / 10.44 / 26.82 / 0.0	21.25	V / 1.00 / 0	n/a	n/a
329.328 MHz	34.0 Qp	1.48 / 13.83 / 27.05 / 0.0	22.26	V / 1.00 / 0	n/a	n/a
98.299 MHz	49.1 Qp	0.82 / 8.04 / 26.84 / 0.0	31.12	V / 1.00 / 90	n/a	n/a
MAXIMIZED.						
127.787 MHz	52.7 Qp	0.92 / 8.65 / 26.87 / 0.0	35.41	V / 1.00 / 23	n/a	n/a
END OF VERTICAL SCAN.						
117.96 MHz	44.65 Qp	0.89 / 9.0 / 26.86 / 0.0	27.67	H / 1.00 / 0	n/a	n/a
159.738 MHz	36.2 Qp	1.05 / 9.12 / 26.9 / 0.0	19.46	H / 1.00 / 0	n/a	n/a
260.497 MHz	32.45 Qp	1.35 / 11.72 / 26.9 / 0.0	18.62	H / 1.00 / 0	n/a	n/a
270.337 MHz	32.25 Qp	1.38 / 12.02 / 26.92 / 0.0	18.72	H / 1.00 / 0	n/a	n/a
108.129 MHz	53.6 Qp	0.86 / 8.66 / 26.85 / 0.0	36.27	H / 1.00 / 90	n/a	n/a
117.96 MHz	52.05 Qp	0.89 / 9.0 / 26.86 / 0.0	35.07	H / 1.00 / 90	n/a	n/a
159.738 MHz	39.65 Qp	1.05 / 9.12 / 26.9 / 0.0	22.91	H / 1.00 / 90	n/a	n/a
277.722 MHz	34.9 Qp	1.4 / 12.25 / 26.94 / 0.0	21.61	H / 1.00 / 90	n/a	n/a

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321.948 MHz	34.9 Qp	1.47 / 13.6 / 27.03 / 0.0	22.94	H / 1.00 / 90	n/a	n/a
108.129 MHz	54.4 Qp	0.86 / 8.66 / 26.85 / 0.0	37.07	H / 1.00 / 270	n/a	n/a
260.497 MHz	37.8 Qp	1.35 / 11.72 / 26.9 / 0.0	23.97	H / 1.00 / 270	n/a	n/a
277.722 MHz	39.0 Qp	1.4 / 12.25 / 26.94 / 0.0	25.71	H / 1.00 / 270	n/a	n/a
321.948 MHz	36.05 Qp	1.47 / 13.6 / 27.03 / 0.0	24.09	H / 1.00 / 270	n/a	n/a
MAXIMIZED.						
108.129 MHz	59.25 Qp	0.86 / 8.66 / 26.85 / 0.0	41.92	H / 2.58 / 243	n/a	n/a
117.96 MHz	55.9 Qp	0.89 / 9.0 / 26.86 / 0.0	38.92	H / 2.58 / 221	n/a	n/a
THE ABOVE 2 READINGS ARE DUE TO THE AC POWER CORD						
MIDDLE CHANNEL - 915.61MHz						
86.016 MHz	39.2 Qp	0.77 / 7.26 / 26.83 / 0.0	20.4	V / 1.00 / 0	n/a	n/a
117.96 MHz	57.25 Qp	0.89 / 9.0 / 26.86 / 0.0	40.27	V / 1.00 / 90	n/a	n/a
117.96 MHz	57.65 Qp	0.89 / 9.0 / 26.86 / 0.0	40.67	V / 1.00 / 180	n/a	n/a
98.299 MHz	49.75 Qp	0.82 / 8.04 / 26.84 / 0.0	31.77	V / 1.00 / 270	n/a	n/a
MAXIMIZED.						
117.96 MHz	58.6 Qp	0.89 / 9.0 / 26.86 / 0.0	41.62	V / 1.00 / 65	n/a	n/a
END OF VERTICAL SCAN.						
159.738 MHz	43.0 Qp	1.05 / 9.12 / 26.9 / 0.0	26.26	H / 1.00 / 90	n/a	n/a
270.337 MHz	33.75 Qp	1.38 / 12.02 / 26.92 / 0.0	20.22	H / 1.00 / 90	n/a	n/a

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329.328 MHz	35.25 Qp	1.48 / 13.83 / 27.05 / 0.0	23.51	H / 1.00 / 90	n/a	n/a
113.044 MHz	50.15 Qp	0.87 / 8.98 / 26.86 / 0.0	33.14	H / 1.00 / 90	n/a	n/a
113.044 MHz	50.6 Qp	0.87 / 8.98 / 26.86 / 0.0	33.59	H / 1.00 / 270	n/a	n/a
218.729 MHz	37.5 Qp	1.22 / 10.44 / 26.82 / 0.0	22.35	H / 1.00 / 270	n/a	n/a
260.497 MHz	38.35 Qp	1.35 / 11.72 / 26.9 / 0.0	24.52	H / 1.00 / 270	n/a	n/a
270.337 MHz	35.6 Qp	1.38 / 12.02 / 26.92 / 0.0	22.07	H / 1.00 / 270	n/a	n/a
MAXIMIZED.						
113.044 MHz	54.55 Qp	0.87 / 8.98 / 26.86 / 0.0	37.54	H / 1.50 / 80	n/a	n/a
159.738 MHz	43.25 Qp	1.05 / 9.12 / 26.9 / 0.0	26.51	H / 1.50 / 104	n/a	n/a
HIGH CHANNEL - 921.77MHz.						
68.802 MHz	36.05 Qp	0.67 / 9.66 / 26.81 / 0.0	19.57	V / 1.00 / 0	n/a	n/a
MAXIMIZED.						
68.802 MHz	36.6 Qp	0.67 / 9.66 / 26.81 / 0.0	20.12	V / 1.00 / 0	n/a	n/a
END OF VERTICAL SCAN.						
NO NEW OR HIGHER EMISSIONS FOUND WITH HORIZONTAL POLARIZATION AT ALL AIZMUTHS.						
END OF SCAN < 1000MHz.						
HIGH CHANNEL - 921.77MHz.						
1.008 GHz	59.91 Av	2.65 / 25.2 / 48.79 / -24.0	14.97	V / 1.00 / 0	n/a	-39.03
1.066 GHz	62.44 Av	2.73 / 25.17 / 49.23 / -24.0	17.12	V / 1.00 / 0	n/a	-36.88
1.062 GHz	46.76 Av	2.73 / 25.18 / 49.2 / -24.0	1.47	V / 1.00 / 0	n/a	-52.53

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MAXIMIZED.						
1.066 GHz	63.44 Av	2.73 / 25.17 / 49.23 / -24.0	18.12	V / 1.00 / 70	n/a	-35.88
1.844 GHz	59.22 Av	4.04 / 27.06 / 49.78 / -24.0	16.54	H / 1.00 / 0	n/a	-37.46
MAXIMIZED.						
1.844 GHz	74.8 Av	4.04 / 27.06 / 49.78 / -24.0	32.12	H / 1.00 / 160	n/a	-21.88
MIDDLE CHANNEL - 915.61MHz						
MAXIMIZED.						
2.747 GHz	56.97 Av	4.6 / 29.42 / 48.26 / -24.0	18.73	V / 1.80 / 0	n/a	-35.27
2.747 GHz	67.0 Av	4.6 / 29.42 / 48.26 / -24.0	28.76	H / 1.50 / 0	n/a	-25.24
LOW CHANNEL - 909.58 MHz.						
5.458 GHz	46.37 Av	6.8 / 33.36 / 44.67 / -24.0	17.85	V / 1.00 / 0	n/a	-36.15
2.729 GHz	70.3 Av	4.57 / 29.38 / 48.26 / -24.0	32.0	H / 1.23 / 24	n/a	-22.0
HIGH CHANNEL - 921.77MHz.						
2.765 GHz	62.73 Av	4.63 / 29.45 / 48.26 / -24.0	24.55	H / 1.23 / 0	n/a	-29.45
PEAK READINGS.						
2.729 GHz	70.6 Pk	4.57 / 29.38 / 48.26 / 0.0	56.3	H / 1.20 / 0	-17.7	2.3*
2.747 GHz	68.1 Pk	4.6 / 29.42 / 48.26 / 0.0	53.86	H / 1.50 / 0	-20.14	-0.14*
2.765 GHz	64.15 Pk	4.63 / 29.45 / 48.26 / 0.0	49.97	H / 1.20 / 0	-24.03	-4.03*
1.008 GHz	59.95 Pk	2.65 / 25.2 / 48.79 / 0.0	39.01	V / 1.20 / 0	-34.99	-14.99*

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List of measurements for run #: 1

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA1 FCC CLASS B - PK	DELTA2 FCC B >1GHz 3m
1.062 GHz	55.7 Pk	2.73 / 25.18 / 49.2 / 0.0	34.41	V / 1.20 / 0	-39.59	-19.59*
1.066 GHz	62.44 Pk	2.73 / 25.17 / 49.23 / 0.0	41.12	V / 1.20 / 0	-32.88	-12.88*
1.844 GHz	75.8 Pk	4.04 / 27.06 / 49.78 / 0.0	57.12	V / 1.20 / 2	-16.88	3.12*
5.457 GHz	48.65 Pk	6.8 / 33.36 / 44.67 / 0.0	44.13	V / 1.20 / 2	-29.87	-9.87*

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Test Method: FCC 15.247 Air Pressure: 99.0 kPa
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Measurement summary for limit1: Restricted Bands > 1GHz PK (Pk)

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA1 FCC CLASS B - PK
1.844 GHz	75.8 Pk	4.04 / 27.06 / 49.78 / 0.0	57.12	V / 1.20 / 2	-16.88
2.729 GHz	70.6 Pk	4.57 / 29.38 / 48.26 / 0.0	56.3	H / 1.20 / 0	-17.7
2.747 GHz	68.1 Pk	4.6 / 29.42 / 48.26 / 0.0	53.86	H / 1.50 / 0	-20.14
2.765 GHz	64.15 Pk	4.63 / 29.45 / 48.26 / 0.0	49.97	H / 1.20 / 0	-24.03
5.457 GHz	48.65 Pk	6.8 / 33.36 / 44.67 / 0.0	44.13	V / 1.20 / 2	-29.87
1.066 GHz	62.44 Pk	2.73 / 25.17 / 49.23 / 0.0	41.12	V / 1.20 / 0	-32.88
1.008 GHz	59.95 Pk	2.65 / 25.2 / 48.79 / 0.0	39.01	V / 1.20 / 0	-34.99
1.062 GHz	55.7 Pk	2.73 / 25.18 / 49.2 / 0.0	34.41	V / 1.20 / 0	-39.59

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Measurement summary for limit2: Restricted Bands >1GHz 3m (Av)

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA2 FCC B >1GHz 3m
1.844 GHz	74.8 Av	4.04 / 27.06 / 49.78 / -24.0	32.12	H / 1.00 / 160	-21.88
2.729 GHz	70.3 Av	4.57 / 29.38 / 48.26 / -24.0	32.0	H / 1.23 / 24	-22.0
2.747 GHz	67.0 Av	4.6 / 29.42 / 48.26 / -24.0	28.76	H / 1.50 / 0	-25.24
2.765 GHz	62.73 Av	4.63 / 29.45 / 48.26 / -24.0	24.55	H / 1.23 / 0	-29.45
1.066 GHz	63.44 Av	2.73 / 25.17 / 49.23 / -24.0	18.12	V / 1.00 / 70	-35.88
5.458 GHz	46.37 Av	6.8 / 33.36 / 44.67 / -24.0	17.85	V / 1.00 / 0	-36.15
1.008 GHz	59.91 Av	2.65 / 25.2 / 48.79 / -24.0	14.97	V / 1.00 / 0	-39.03
1.062 GHz	46.76 Av	2.73 / 25.18 / 49.2 / -24.0	1.47	V / 1.00 / 0	-52.53

A CORRECTION FACTOR OF 24dB (ATTEN) WAS DETERMINED BY A (5.6% DUTY CYCLE REDUCTION FORMULA) AND THERBY SUBTRACTED FROM THE ORIGINAL AVERAGE LEVEL.

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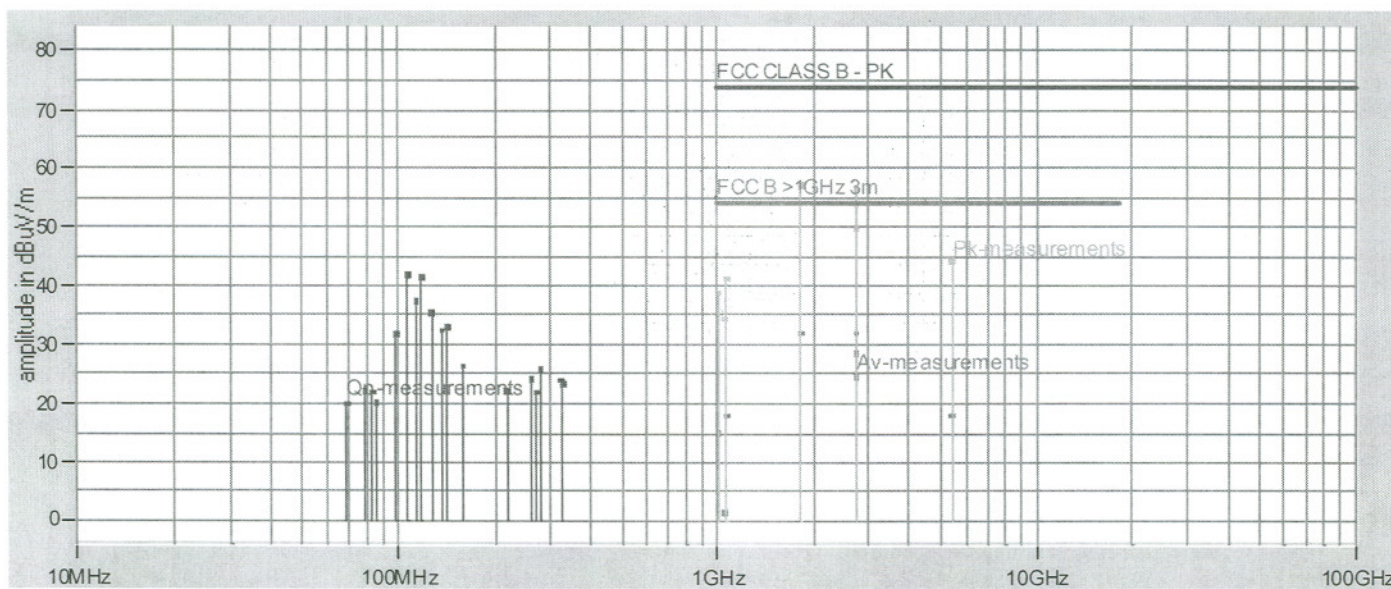
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Graph:



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