

# RADIATED EMISSIONS



America

Test Report #: WC600852 Run 2 Test Area: LTS  
EUT Model #: 50000879-xx Rev 1P Date: 2/16/2006  
EUT Serial #: \_\_\_\_\_ EUT Power: 12 DC via p/s Temperature: 20.0 °C  
Test Method: EN55022 B Air Pressure: 99.0 kPa  
Customer: Digi International Rel. Humidity: 20.0 %  
EUT Description: Digi Connect Wi-EM

Notes: Updated to use an alternate external PCB antenna.

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## List of measurements for run #: 2

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA1 FCC B >1GHz 3m	DELTA2 FCC B >1G 3 M
4.825 GHz	52.25 Pk	6.19 / 32.53 / 45.17 / 0.0	45.8	V / 1.00 / 0	-8.2*	-28.2
4.824 GHz	43.96 Av	6.18 / 32.53 / 45.17 / 0.0	37.5	V / 1.00 / 0	-16.5	n/a
4.824 GHz	50.0 Pk	6.18 / 32.53 / 45.17 / 0.0	43.54	V / 1.00 / 70	-10.46*	-30.46
4.824 GHz	43.34 Av	6.18 / 32.53 / 45.17 / 0.0	36.88	V / 1.00 / 70	-17.12	n/a
4.822 GHz	55.6 Pk	6.18 / 32.52 / 45.18 / 0.0	49.13	H / 1.00 / 300	-4.87*	-24.87
4.822 GHz	49.26 Av	6.18 / 32.52 / 45.18 / 0.0	42.79	H / 1.00 / 300	-11.21	n/a
9.644 GHz	45.15 Pk	9.88 / 37.69 / 44.93 / 0.56	48.36	V / 1.00 / 300	-5.64*	-25.64
9.644 GHz	39.87 Av	9.88 / 37.69 / 44.93 / 0.56	43.08	V / 1.00 / 300	-10.92	n/a
9.644 GHz	45.2 Pk	9.88 / 37.69 / 44.93 / 0.56	48.41	H / 1.00 / 300	-5.59*	-25.59
9.644 GHz	39.84 Av	9.88 / 37.69 / 44.93 / 0.56	43.05	H / 1.00 / 300	-10.95	n/a
Noise Floor						
4.855 GHz	48.8 Pk	6.21 / 32.57 / 45.04 / 0.57	43.11	H / 1.00 / 300	-10.89*	-30.89
4.855 GHz	41.06 Av	6.21 / 32.57 / 45.04 / 0.57	35.37	H / 1.00 / 300	-18.63	n/a
4.855 GHz	45.4 Pk	6.21 / 32.57 / 45.04 / 0.57	39.71	V / 1.00 / 300	-14.29*	-34.29
4.855 GHz	40.73 Av	6.21 / 32.57 / 45.04 / 0.57	35.04	V / 1.00 / 300	-18.96	n/a
Noise floor						
1.5 GHz	53.25 Pk	3.74 / 25.0 / 49.82 / 0.42	32.59	V / 1.00 / 300	-21.41*	-41.41
1.5 GHz	47.37 Av	3.74 / 25.0 / 49.82 / 0.42	26.71	V / 1.00 / 300	-27.29	n/a
1.5 GHz	55.8 Pk	3.74 / 25.0 / 49.82 / 0.42	35.14	H / 1.00 / 300	-18.86*	-38.86

Tested by: Michael Schultz  
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Printed

Michael Schultz  
\_\_\_\_\_  
Signature

Reviewed by: J. T. Schneider  
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Printed

Joel T. Schneider  
\_\_\_\_\_  
Signature

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EUT Description: Digi Connect Wi-EM

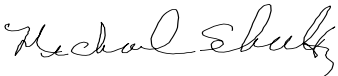
Notes: Updated to use an alternate external PCB antenna.

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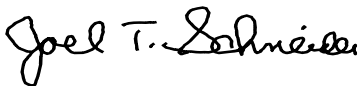
## List of measurements for run #: 2

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA1 FCC B >1GHz 3m	DELTA2 FCC B >1G 3 M
1.5 GHz	49.66 Av	3.74 / 25.0 / 49.82 / 0.42	29.0	H / 1.00 / 300	-25.0	n/a
Noise floor						
3.0 GHz	34.9 Pk	4.91 / 29.9 / 27.3 / 0.0	42.41	H / 1.00 / 300	-11.59*	-31.59
3.0 GHz	29.7 Av	4.91 / 29.9 / 27.3 / 0.0	37.21	H / 1.00 / 300	-16.79	n/a
3.0 GHz	36.55 Pk	4.91 / 29.9 / 27.3 / 0.0	44.06	V / 1.00 / 300	-9.94*	-29.94
3.0 GHz	29.59 Av	4.91 / 29.9 / 27.3 / 0.0	37.1	V / 1.00 / 300	-16.9	n/a
Scan complete for the low channel to 25 GHz						

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EUT Description: Digi Connect Wi-EM

Notes: Updated to use an alternate external PCB antenna.

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## Measurement summary for limit1: FCC B >1GHz 3m (Av)

FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA1 FCC B >1GHz 3m
9.644 GHz	39.87 Av	9.88 / 37.69 / 44.93 / 0.56	43.08	V / 1.00 / 300	-10.92
4.822 GHz	49.26 Av	6.18 / 32.52 / 45.18 / 0.0	42.79	H / 1.00 / 300	-11.21
4.824 GHz	43.96 Av	6.18 / 32.53 / 45.17 / 0.0	37.5	V / 1.00 / 0	-16.5
3.0 GHz	29.7 Av	4.91 / 29.9 / 27.3 / 0.0	37.21	H / 1.00 / 300	-16.79
4.855 GHz	41.06 Av	6.21 / 32.57 / 45.04 / 0.57	35.37	H / 1.00 / 300	-18.63
1.5 GHz	49.66 Av	3.74 / 25.0 / 49.82 / 0.42	29.0	H / 1.00 / 300	-25.0

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<b>Measurement summary for limit2: FCC B &gt;1G 3 M (Pk)</b>					
FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA2 FCC B >1G 3 M
2.412 GHz	87.0 Pk	4.16 / 28.78 / 27.18 / 0.0	92.75	V / 1.00 / 300	18.75
4.822 GHz	55.6 Pk	6.18 / 32.52 / 45.18 / 0.0	49.13	H / 1.00 / 300	-24.87
9.644 GHz	45.2 Pk	9.88 / 37.69 / 44.93 / 0.56	48.41	H / 1.00 / 300	-25.59
4.825 GHz	52.25 Pk	6.19 / 32.53 / 45.17 / 0.0	45.8	V / 1.00 / 0	-28.2
3.0 GHz	36.55 Pk	4.91 / 29.9 / 27.3 / 0.0	44.06	V / 1.00 / 300	-29.94
4.824 GHz	50.0 Pk	6.18 / 32.53 / 45.17 / 0.0	43.54	V / 1.00 / 70	-30.46
4.855 GHz	48.8 Pk	6.21 / 32.57 / 45.04 / 0.57	43.11	H / 1.00 / 300	-30.89
1.5 GHz	55.8 Pk	3.74 / 25.0 / 49.82 / 0.42	35.14	H / 1.00 / 300	-38.86

Tested by: Michael Schultz  
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*Michael Schultz*  
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