

Test Company Name Hermon Laboratory

Date 9 January 2003
 Temperature 22.5°C
 Humidity 47%
 Air pressure 1016 hPa
 Job Number 15393
 Test Name FCC 15.247(c)
 Radiated emission in the restricted band
 EUT Name WLAN 2.4 GHz, One Access Point
 EUT Model Number ModuLite 810
 Site Description **OATS**
 Test equipment 1424; 41; 1947; 554; 1200; 2254; 2260; 768; 2274; 1989
 Operator Name Pitt
 Customer Name Foxcom Wireless
 Distance 3m.

Peak Measurements: RBW=1MHz; VBW=1MHz
 Average Measurements: RBW=1MHz; VBW=10Hz

ANTENNA MARS MA-CM36-15 (5dBi)

CHANNEL	Freq (MHz)	Detector Type	Antenna Polarization	Radiated emission (dBuV/m)	Spec .Limit (dBuV/m)	Margin dB	Pass/Fail
Low 2412MHz	4824	Peak	V	66.7	74	-7.3	Pass
	4824	Avg	V	39.0	54	-15.0	Pass
	4824	Peak	H	63.6	74	-10.4	Pass
	4824	Avg	H	38.3	54	-15.7	Pass
	12060	Peak	V	62.1	74	-11.9	Pass
	12060	Avg	V	48.7	54	-5.3	Pass
	12060	Peak	H	62.5	74	-11.5	Pass
	12060	Avg	H	48.8	54	-5.2	Pass
	14472	Peak	V	63.5	74	-10.5	Pass
	14472	Avg	V	51.2	54	-2.8	Pass
	14472	Peak	H	59.4	74	-14.6	Pass
	14472	Avg	H	51.0	54	-3.0	Pass
	19296	Peak	V	42.7	74	-31.3	Pass
	19296	Avg	V	30.6	54	-23.4	Pass
	19296	Peak	H	42.3	74	-31.7	Pass
	19296	Avg	H	30.1	54	-23.9	Pass

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CHANNEL	Freq (MHz)	Detector Type	Antenna Polarization	Radiated emission (dBuV/m)	Spec .Limit (dBuV/m)	Margin dB	Pass/Fail
Middle 2437MHz	4874	Peak	V	65.9	74	-8.1	Pass
	4874	Avg	V	38.6	54	-15.4	Pass
	4874	Peak	H	66.2	74	-7.8	Pass
	4874	Avg	H	39.0	54	-15.0	Pass
	7311	Peak	V	59.2	74	-14.8	Pass
	7311	Avg	V	44.4	54	-9.6	Pass
	7311	Peak	H	57.0	74	-17.0	Pass
	7311	Avg	H	44.1	54	-9.9	Pass
	12185	Peak	V	61.0	74	-13.0	Pass
	12185	Avg	V	47.5	54	-6.5	Pass
	12185	Peak	H	59.9	74	-14.1	Pass
	12185	Avg	H	47.1	54	-6.9	Pass
	19496	Peak	V	43.7	74	-30.3	Pass
	19496	Avg	V	30.7	54	-23.3	Pass
	19496	Peak	H	43.2	74	-30.8	Pass
	19496	Avg	H	30.6	54	-23.4	Pass

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High 2462NHZ	4924	Peak	V	66.0	74	-8.0	Pass
	4924	Avg	V	39.0	54	-15.0	Pass
	4924	Peak	H	64.5	74	-9.5	Pass
	4924	Avg	H	38.3	54	-15.7	Pass
	7386	Peak	V	63.1	74	-10.9	Pass
	7386	Avg	V	44.9	54	-9.1	Pass
	7386	Peak	H	59.3	74	-14.7	Pass
	7386	Avg	H	44.5	54	-9.5	Pass
	12310	Peak	V	62.0	74	-12.0	Pass
	12310	Avg	V	48.0	54	-6.0	Pass
	12310	Peak	H	60.2	74	-13.8	Pass
	12310	Avg	H	48.0	54	-6.0	Pass
	19696	Peak	V	44.2	74	-29.8	Pass
	19696	Avg	V	30.7	54	-23.3	Pass
	19696	Peak	H	44.2	74	-29.8	Pass
	19696	Avg	H	30.6	54	-23.4	Pass
	22158	Peak	V	45.1	74	-28.9	Pass
	22158	Avg	V	31.9	54	-22.1	Pass
22158	Peak	H	44.7	74	-29.3	Pass	
22158	Avg	H	31.5	54	-22.5	Pass	

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ANTENNA Celwave Tri-Band Omni-Directional (2.1 dBi)

CHANNEL	Freq (MHz)	Detector Type	Antenna Polarization	Radiated emission (dBuV/m)	Spec .Limit (dBuV/m)	Margin dB	Pass/Fail
Low 2412MHz	4824	Peak	V	58.0	74	-16.0	Pass
	4824	Avg	V	40.5	54	-13.5	Pass
	4824	Peak	H	55.3	74	-18.7	Pass
	4824	Avg	H	39.5	54	-14.5	Pass
	12060	Peak	V	59.3	74	-14.6	Pass
	12060	Avg	V	49.9	54	-4.1	Pass
	12060	Peak	H	59.3	74	-14.6	Pass
	12060	Avg	H	49.9	54	-4.1	Pass
	14472	Peak	V	71.1	74	-2.9	Pass
	14472	Avg	V	53.3	54	-07	Pass
	14472	Peak	H	66.9	74	-7.1	Pass
	14472	Avg	H	52.6	54	-1.4	Pass
	19296	Peak	V	43.7	74	-30.3	Pass
	19296	Avg	V	30.1	54	-23.9	Pass
19296	Peak	H	43.5	74	-30.5	Pass	
19296	Avg	H	29.8	54	-24.2	Pass	

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 Test equipment 1424; 41; 1947; 554; 1200; 2254; 2260; 768; 2274; 1989
 Operator Name Pitt
 Customer Name Foxcom Wireless
 Distance 3m.

Peak Measurements: RBW=1MHz; VBW=1MHz
 Average Measurements: RBW=1MHz; VBW=10Hz

ANTENNA Celwave Tri-Band Omni-Directional (2.1 dBi)

CHANNEL	Freq (MHz)	Detector Type	Antenna Polarization	Radiated emission (dBuV/m)	Spec .Limit (dBuV/m)	Margin dB	Pass/Fail
Middle 2437MHz	4874	Peak	V	54.7	74	-19.3	Pass
	4874	Avg	V	38.9	54	-15.1	Pass
	4874	Peak	H	52.9	74	-21.1	Pass
	4874	Avg	H	38.6	54	-15.4	Pass
	7311	Peak	V	66.9	74	-7.1	Pass
	7311	Avg	V	45.0	54	-9.0	Pass
	7311	Peak	H	57.5	74	-16.5	Pass
	7311	Avg	H	44.9	54	-9.1	Pass
	12185	Peak	V	59.1	74	-14.1	Pass
	12185	Avg	V	48.6	54	-5.4	Pass
	12185	Peak	H	58.6	74	-15.4	Pass
	12185	Avg	H	48.6	54	-5.4	Pass
	19496	Peak	V	43.6	74	-30.4	Pass
	19496	Avg	V	30.4	54	-23.6	Pass
	19496	Peak	H	43.4	74	-30.6	Pass
	19496	Avg	H	30.0	54	-24.0	Pass

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 Average Measurements: RBW=1MHz; VBW=10Hz

ANTENNA Celwave Tri-Band Omni-Directional (2.1 dBi)

CHANNEL	Freq (MHz)	Detector Type	Antenna Polarization	Radiated emission (dBuV/m)	Spec .Limit (dBuV/m)	Margin dB	Pass/Fail
High 2462NHZ	4924	Peak	V	60.0	74	-14.0	Pass
	4924	Avg	V	41.0	54	-13.0	Pass
	4924	Peak	H	60.3	74	-13.7	Pass
	4924	Avg	H	42.0	54	-12.0	Pass
	7386	Peak	V	67.8	74	-6.2	Pass
	7386	Avg	V	46.0	54	-8.0	Pass
	7386	Peak	H	63.3	74	-10.7	Pass
	7386	Avg	H	45.4	54	-8.6	Pass
	12310	Peak	V	61.0	74	-13.0	Pass
	12310	Avg	V	49.1	54	-4.9	Pass
	12310	Peak	H	58.6	74	-15.4	Pass
	12310	Avg	H	49.1	54	-4.9	Pass
	19696	Peak	V	44.2	74	-29.8	Pass
	19696	Avg	V	31.2	54	-22.8	Pass
	19696	Peak	H	43.9	74	-30.6	Pass
	19696	Avg	H	31.1	54	-22.9	Pass
	22158	Peak	V	45.4	74	-28.6	Pass
	22158	Avg	V	32.1	54	-21.9	Pass
22158	Peak	H	45.4	74	-28.6	Pass	
22158	Avg	H	31.9	54	-22.1	Pass	

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ANTENNA Fixed Station ASP-3561 (2 dBi)

CHANNEL	Freq (MHz)	Detector Type	Antenna Polarization	Radiated emission (dBuV/m)	Spec .Limit (dBuV/m)	Margin dB	Pass/Fail
Low 2412MHz	4824	Peak	V	58.7	74	-15.3	Pass
	4824	Avg	V	40.8	54	-13.2	Pass
	4824	Peak	H	55.7	74	-18.3	Pass
	4824	Avg	H	40.2	54	-13.8	Pass
	12060	Peak	V	63.3	74	-10.7	Pass
	12060	Avg	V	50.0	54	-4.0	Pass
	12060	Peak	H	63.7	74	-10.3	Pass
	12060	Avg	H	50.0	54	-4.0	Pass
	14472	Peak	V	66.0	74	-8.0	Pass
	14472	Avg	V	52.5	54	-1.5	Pass
	14472	Peak	H	62.4	74	-11.6	Pass
	14472	Avg	H	52.3	54	-1.7	Pass
	19296	Peak	V	43.4	74	-30.6	Pass
	19296	Avg	V	30.1	54	-23.9	Pass
	19296	Peak	H	42.2	74	-31.8	Pass
	19296	Avg	H	30.0	54	-24.0	Pass

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Middle 2437MHz	4874	Peak	V	53.2	74	-20.8	Pass
	4874	Avg	V	40.7	54	-13.3	Pass
	4874	Peak	H	53.0	74	-21.0	Pass
	4874	Avg	H	40.5	54	-13.5	Pass
	7311	Peak	V	61.5	74	-12.5	Pass
	7311	Avg	V	45.8	54	-8.2	Pass
	7311	Peak	H	59.7	74	-14.3	Pass
	7311	Avg	H	45.3	54	-8.7	Pass
	12185	Peak	V	62.3	74	-11.6	Pass
	12185	Avg	V	48.8	54	-5.2	Pass
	12185	Peak	H	62.4	74	-11.6	Pass
	12185	Avg	H	48.9	54	-5.1	Pass
	19496	Peak	V	44.4	74	-29.6	Pass
	19496	Avg	V	30.7	54	-23.3	Pass
	19496	Peak	H	44.3	74	-29.7	Pass
	19496	Avg	H	30.5	54	-23.5	Pass

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CHANNEL	Freq (MHz)	Detector Type	Antenna Polarization	Radiated emission (dBuV/m)	Spec .Limit (dBuV/m)	Margin dB	Pass/Fail
High 2462NHZ	4924	Peak	V	60.2	74	-13.8	Pass
	4924	Avg	V	42.0	54	-12.0	Pass
	4924	Peak	H	60.3	74	-13.4	Pass
	4924	Avg	H	42.0	54	-12.0	Pass
	7386	Peak	V	70.8	74	-3.2	Pass
	7386	Avg	V	46.2	54	-7.4	Pass
	7386	Peak	H	66.3	74	-7.7	Pass
	7386	Avg	H	45.8	54	-8.2	Pass
	12310	Peak	V	59.5	74	-14.5	Pass
	12310	Avg	V	49.1	54	-4.9	Pass
	12310	Peak	H	61.4	74	-12.6	Pass
	12310	Avg	H	49.1	54	-4.9	Pass
	19696	Peak	V	44.2	74	-29.8	Pass
	19696	Avg	V	30.7	54	-23.3	Pass
	19696	Peak	H	39.9	74	-34.1	Pass
	19696	Avg	H	30.0	54	-24.0	Pass
	22158	Peak	V	45.6	74	-28.4	Pass
	22158	Avg	V	32.1	54	-21.9	Pass
22158	Peak	H	45.5	74	-28.5	Pass	
22158	Avg	H	31.9	54	-22.1	Pass	