

Client:	Ubiquiti Networks	Job Number:	J86352
Model:	Rocket M5 Titanium	T-Log Number:	T88118
Contact:	Jennifer Sanchez	Account Manager:	Susan Pelzl
Standard:	FCC 15.247, RSS-210, RSS-310, FCC 15B	Class:	N/A

Maximum Permissible Exposure

Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Date of Test: 8/17/2012

Test Engineer: Mark Hill

General Test Configuration

Calculation uses the free space transmission formula:

$$S = (PG)/(4 \pi d^2)$$

Where: S is power density (W/m^2), P is output power (W), G is antenna gain relative to isotropic, d is separation distance from the transmitting antenna (m).

Summary of Results

Device complies with Power Density requirements at 20cm separation:	No
If not, required separation distance (in cm):	237.4

Modifications Made During Testing

No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.

EMC Test Data

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Use: General
 Antenna: 30dBi Dish, worse case antenna

Freq. MHz	EUT Power dBm	mW*	Cable Loss dB	Ant Gain dBi	Power at Ant dBm	EIRP mW	Power Density (S) at 20 cm mW/cm ²	MPE Limit at 20 cm mW/cm ²
802.11a								
5745	28.5	707.9	0	30	28.5	707945.78	140.841	1.000
5785	28.0	631.0	0	30	28.0	630957.34	125.525	1.000
5825	27.5	562.3	0	30	27.5	562341.33	111.874	1.000
HT20								
5745	27.0	501.2	0	30	27.0	501187.23	99.708	1.000
5785	27.7	588.8	0	30	27.7	588843.66	117.147	1.000
5825	27.3	537.0	0	30	27.3	537031.80	106.839	1.000
HT40								
5755	28.0	631.0	0	30	28.0	630957.34	125.525	1.000
5795	27.5	562.3	0	30	27.5	562341.33	111.874	1.000
HT10								
5735	28.1	645.7	0	30	28.1	645654.23	128.449	1.000
5790	27.9	616.6	0	30	27.9	616595.00	122.668	1.000
5840	25.6	363.1	0	30	25.6	363078.05	72.232	1.000

For the cases where S > the MPE Limit

Freq. MHz	S @ 20 cm mW/cm ²	MPE Limit mW/cm ²	Distance where S <= MPE Limit
802.11a			
5745	140.841	1.000	237.4cm
5785	125.525	1.000	224.1cm
5825	111.874	1.000	211.5cm
HT20			
5745	99.708	1.000	199.7cm
5785	117.147	1.000	216.5cm
5825	106.839	1.000	206.7cm
HT40			
5755	125.525	1.000	224.1cm
5795	111.874	1.000	211.5cm
HT10			
5735	128.449	1.000	226.7cm
5790	122.668	1.000	221.5cm
5840	72.232	1.000	170.0cm