

Client:	Ubiquiti Networks	Job Number:	J85296
Model:	RocketM5	T-Log Number:	T85333
Contact:	Jennifer Sanchez	Account Manager:	Susan Pelzl
Standard:	FCC 15.407, RSS-210 Issue 8	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: 12/28/2011

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:	Yes
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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.

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Use: General

Antenna: 10 dBi or 13dBi Omni Antennas (MIMO) - Effective gain is 13 and 16dBi respectively

Worse Case EIRP conditions used.

5250-5350 MHz - 10dBi Omni (13dBi effective)

Freq. MHz	EUT Power		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
	dBm	mW*						
5270	15.6	36.4	0	13	15.6	726.16	0.144	1.000
5300	16.6	45.9	0	13	16.6	916.15	0.182	1.000
5320	16.7	47.2	0	13	16.7	940.88	0.187	1.000
5275	16.8	47.4	0	13	16.8	946.37	0.188	1.000
5310	16.4	44.0	0	13	16.4	877.12	0.174	1.000

5470-5725 MHz - 13dBi Omni (16dBi effective)

Freq. MHz	EUT Power		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
	dBm	mW*						
5500	13.7	23.5	0	16	13.7	935.47	0.186	1.000
5580	13.1	20.5	0	16	13.1	814.98	0.162	1.000
5700	13.0	20.0	0	16	13.0	797.06	0.159	1.000
5510	10.2	10.4	0	16	10.2	413.41	0.082	1.000
5550	13.9	24.4	0	16	13.9	972.89	0.194	1.000
5670	13.8	23.8	0	16	13.8	946.87	0.188	1.000
5675	13.2	21.0	0	16	13.2	836.69	0.166	1.000