



EMC Test Data

Client: Vivint Wireless	Job Number: J96091
Model: 1520 (4x4 5GHz 802.11 Client)	T-Log Number: T96173
	Project Manager: Irene Rademacher
Contact: Venkat Kalkunte	Project Coordinator: -
Standard: FCC 15.B / 15.407 (New Rules)	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: 2/17/2015
 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/m²), 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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Use: General
 Antenna: 6dBi 4x4 antenna, 9dBi effective gain

Using worse case channel/mode from each band

Freq. MHz	EUT Power		Cable Loss 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*						
5230	20.7	117.5	0	9	20.7	933.25	0.186	1.000
5270	20.9	123.0	0	9	20.9	977.24	0.194	1.000
5710	21.2	132.1	0	9	21.2	1049.31	0.209	1.000
5795	24.1	257.0	0	9	24.1	2041.74	0.406	1.000

Note: For channels that span 5725MHz, the measured power in the UNII2c and UNII3 was summed, as this would be worse case from an RF exposure perspective.