

Client:	Vivint Wireless	Job Number:	J96161
Model:	SR1530 (4x4 5GHz 802.11 AP)	T-Log Number:	T97162
Contact:	Venkat Kalkunte	Project Manager:	Irene Rademacher
Standard:	FCC 15.B / 15.407 (New Rules)	Project Coordinator:	-
		Class:	N/A

Maximum Permissible Exposure / SAR Exclusion

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: 6/12/2015

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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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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FCC MPE Calculation

Use: General

Antenna: 4dBi - 5.5dBi 4x4 antenna, 7.0 - 8.5dBi effective

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
5230	26.8	482.8	0	7	26.8	2398.8	0.477	1.000
5260	22.4	173.8	0	7.5	22.4	977.2	0.194	1.000
5690	22.0	159.4	0	8	22.0	1000.0	0.199	1.000
5785	26.9	489.8	0	8.5	26.9	3467.4	0.690	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
5230	0.477	1.000	13.8cm
5260	0.194	1.000	8.8cm
5690	0.199	1.000	8.9cm
5785	0.690	1.000	16.6cm

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.

Note: The measured power represents the maximum output power including tolerances. The output power of the production samples will be backed off to ensure that the power will not exceed the powers listed in this application.