# EMC Test Data

Client:	Neato Robotics	Job Number:	J97654					
Model:	Botvac Connected	T-Log Number:	T97691					
	Bolvac Connected	Project Manager:	Christine Krebill					
Contact:	Matt Tenuta	Project Coordinator:	-					
Standard:	FCC 15.247, RSS 247	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: 8/26/2016 Test Engineer: Deniz Demirci

### 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

Yes	Device complies with Power Density requirements at 20 cm separation:
-	If not, required separation distance (in cm):

#### 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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Standard:	FCC 15.247, RSS 247	Class:	N/A

FCC MPE Calculation Use: General Antenna: -2.7 dBi

For 1.5-15 GHz single transmitters (General use)

· or the forest surface (content upo)								
	EUT		Cable	Ant	Power		Power Density (S)	MPE Limit
Freq.	Power		Loss	Gain	at Ant	EIRP	at 20 cm	at 20 cm
MHz	dBm	mW*	dB	dBi	dBm	mW	mW/cm^2	mW/cm^2
2412	16.8	47.9	0	-2.7	16.8	25.70	0.005	1.000
2437	16.8	47.9	0	-2.7	16.8	25.70	0.005	1.000
2462	16.8	47.9	0	-2.7	16.8	25.70	0.005	1.000

Used peak RF power as a worst case MPE

Industry Canada MPE Calculation

Use: General Antenna: -2.7 dBi

For 300-6000 MHz single transmitters (General use)

i or ede dede initiz single transmitters (Conerar aso)									
	EUT		Cable	Cable Ant			Power Density (S)	MPE Limit	
Freq.	Po	wer	Loss	Gain	at Ant	EIRP	at 20 cm	at 20 cm	
MHz	dBm	mW*	dB	dBi	dBm	mW	mW/cm <sup>2</sup>	mW/cm^2	
2412	16.8	47.9	0	0	16.8	47.86	0.010	0.537	
2437	16.8	47.9	0	0	16.8	47.86	0.010	0.540	
2462	16.8	47.9	0	0	16.8	47.86	0.010	0.544	

RSS-102 Issue 5, 2.5.2 Exemption limit for routine evaluation - RF Exposure Evaluation

For 300-6000 MHz single transmitters (General use)

	EUT			Ant	Power		Exemption Limit
Freq.	Po	wer	Loss	Gain	at Ant.	EIRP	e.i.r.p.
MHz	dBm	mW*	dB	dBi	dBm	mW	mW
2412	16.8	47.9	0	0	16.8	47.86	2684.0
2437	16.8	47.9	0	0	16.8	47.86	2703.0
2462	16.8	47.9	0	0	16.8	47.86	2721.9

Used peak RF power and 0 dBi antenna gain as a worst case MPE

Note: RF power levels are the maximum allowed power levels, including tune-up tolerance.