



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: COWB0513

Project No. : 1307C159
Equipment : Portable Bluetooth Speaker
Model : B0513
Applicant : Beats Electronics, LLC
Address : 1601 Cloverfield Blvd. Suite 5000N Santa Monica, CA 90404, USA

According: : FCC Guidelines for Human Exposure IEEE C95.1

Neutron Engineering Inc.

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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi^2} = \frac{EIRP}{4\pi^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Ant. Brand	name	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A N/A		PIFA	N/A	2.5

TEST RESULTS

EUT:	Portable Bluetooth Speaker	Model Name	B0513
Temperature:	25 °C	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00/ CH39 /CH78 -1Mbps		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.5 1.7783		-0.46	0.8995	0.00031838	1	Complies
2.5 1.7783		1.78	1.5066	0.00053327	1	Complies
2.5 1.7783		0.49	1.1194	0.00039623	1	Complies

EUT:	Portable Bluetooth Speaker	Model Name	B0513
Temperature:	25 °C	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH00/ CH39 /CH78 -3Mbps		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.5 1.7783		-3.64	0.4325	0.00015309	1	Complies
2.5 1.7783		-0.82	0.8279	0.00029306	1	Complies
2.5 1.7783		-2.23	0.5984	0.00021181	1	Complies

Note: The calculated distance is 20cm