

FCC RF EXPOSURE REPORT

FCC ID: SEP-CORE

Project No. : 1503C019
Equipment : Wireless Speaker System
Model : Core
Applicant : MASS FIDELITY
Address : 326 Adeliade Street West suite 400 Toronto ON
M5V 1R3 Canada

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

B T L I N C .

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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

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

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

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	N/A	N/A	PIFA	N/A	2.12

TEST RESULTS

EUT :	Wireless Speaker System	Model Name :	Core
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX Mode_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
2.12	1.6293	3.59	2.2856	0.00074123	1	Complies
2.12	1.6293	3.31	2.1429	0.00069494	1	Complies
2.12	1.6293	3.53	2.2542	0.00073106	1	Complies

EUT :	Wireless Speaker System	Model Name :	Core
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX Mode_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
2.12	1.6293	3.70	2.3442	0.00076024	1	Complies
2.12	1.6293	3.68	2.3335	0.00075675	1	Complies
2.12	1.6293	3.64	2.3121	0.00074981	1	Complies

Note: the calculated distance is 20 cm.