

FCC RF EXPOSURE REPORT

FCC ID: QWHB12X-B15X

Project No. : 1611C138
Equipment : Portable Speaker
Model : B15X, B12X
Applicant : MUSIC Group Manufacturing PH Ltd.
Address : 17A Brunswick Street Hamilton HM 10
Bermuda

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

B T L I N C .

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, China.
TEL: +86-769-8318-3000 FAX: +86-769-8319-6000

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	Test Model	Antenna Type	Connector	Gain(dBi)
1	N/A	F-3088	PIFA	N/A	0

TEST RESULTS

BT

EUT :	Portable Speaker	Model Name :	B12X, B15X
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
0	1.0000	5.34	3.4198	0.00068069	1	Complies
0	1.0000	5.77	3.7757	0.00075154	1	Complies
0	1.0000	5.83	3.8282	0.00076199	1	Complies

EUT :	Portable Speaker	Model Name :	B12X, B15X
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
0	1.0000	6.10	4.0738	0.00081087	1	Complies
0	1.0000	6.40	4.3652	0.00086886	1	Complies
0	1.0000	6.27	4.2364	0.00084324	1	Complies

LE

EUT :	Portable Speaker	Model Name :	B12X, B15X
Temperature :	24 °C	Relative Humidity:	60 %
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
0	1.0000	5.71	3.7239	0.00074123	1	Complies
0	1.0000	6.32	4.2855	0.00085300	1	Complies
0	1.0000	6.54	4.5082	0.00089733	1	Complies

Note: the calculated distance is 20 cm.