


# FCC RF EXPOSURE REPORT

## FCC ID: 2AR2STAW6205

**Project No.** : 2006C046C  
**Equipment** : Wireless Home Speaker  
**Brand Name** :   
**Test Model** : PHILIPS or TAW6205  
**Series Model** : TAW6205/10, TAW6205/12, TAW6205/98, TAW6205/37, W6205, W6205/10, W6205/12, W6205/98, W6205/xx, TAW6205/xx (xx=00-99, for country code)  
**Applicant** : MMD Hong Kong Holding Limited  
**Address** : Unit 1006, 10th Floor, C-Bons International Center, 108 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong  
**Manufacturer** : MMD Hong Kong Holding Limited  
**Address** : Unit 1006, 10th Floor, C-Bons International Center, 108 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong  
**Factory** : Guoguang Electric Co.,Ltd.  
**Address** : No.8 Jinghu Road, Xinya Street, Huadu Reg, Guangzhou, China  
**Date of Receipt** : Jan. 12, 2021  
**Date of Test** : Jan. 22, 2021 ~ Feb. 25, 2021  
**Issued Date** : Mar. 10, 2021  
**Report Version** : R00  
**Test Sample** : Engineering Sample No.: DG2021012263  
**Standard(s)** : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091  
FCC Title 47 Part 2.1091, OET Bulletin 65 Supplement C

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.



Prepared by : Vincent Tan



Approved by : Ethan Ma



Certificate #5123.02

Add: No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

Tel: +86-769-8318-3000

Web: www.newbtl.com

**REPORT ISSUED HISTORY**

Report Version	Description	Issued Date
R00	Original Issue	Mar. 10, 2021

## 1. TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3,Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's Test Firm Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

## 2. 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:


**For Play-Fi:**

For BT/LE:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1		N/A	FPC	N/A	2.90


Note: The antenna gain is provided by the manufacturer.

For 2.4GHz:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1		N/A	FPC	N/A	4.20

Note: The antenna gain is provided by the manufacturer.


For 5GHz:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1		N/A	FPC	N/A	5.40

Note: The antenna gain is provided by the manufacturer.


**For Ambilight**

For 2.4GHz:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1		N/A	FPC	N/A	4.4

Note: The antenna gain is provided by the manufacturer.

For 5GHz:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1		N/A	FPC	N/A	5.9

Note: The antenna gain is provided by the manufacturer.

### 3. TEST RESULTS

#### For Play-Fi:

##### For BT:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Max. Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2.90	1.9498	3.89	2.4491	0.00095	1	Complies

##### For LE:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Max. Peak Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2.90	1.9498	3.72	2.3550	0.00091	1	Complies

##### For 2.4GHz:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
4.20	2.6303	14.61	28.9068	0.01513	1	Complies

##### For 5GHz UNII-1:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
5.40	3.4674	14.05	25.4097	0.01754	1	Complies

##### For 5GHz UNII-2A:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
5.40	3.4674	14.20	26.3027	0.01815	1	Complies

##### For 5GHz UNII-2C:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
5.40	3.4674	14.15	26.0016	0.01795	1	Complies

##### For 5GHz UNII-3:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
5.40	3.4674	13.67	23.2809	0.01607	1	Complies

**For Ambilight:**

For 2.4GHz:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
4.40	2.7542	14.95	31.2608	0.01714	1	Complies

For 5GHz UNII-1:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
5.90	3.8905	13.82	24.0991	0.01866	1	Complies

For 5GHz UNII-2A:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
5.90	3.8905	13.81	24.0436	0.01862	1	Complies

For 5GHz UNII-2C:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
5.90	3.8905	13.88	24.4343	0.01892	1	Complies

For 5GHz UNII-3:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
5.90	3.8905	13.97	24.9459	0.01932	1	Complies

**For the max simultaneous transmission MPE:**

Power Density (S) (mW/cm <sup>2</sup> ) Play-FI	Power Density (S) (mW/cm <sup>2</sup> ) Ambilight	Total	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
0.01815	0.01932	0.03747	1	Complies

Note: The calculated distance is 20 cm.

**End of Test Report**