

FCC RF EXPOSURE REPORT

FCC ID: 2AR2STAFS1GC

Project No. : 2201C013
Equipment : Wireless Home Speaker
Brand Name :  PHILIPS or
Test Model : TAFS1GC
Series Model : TAFS1, TAFS1/10, TAFS1GC/10, TAFS1/37, TAFS1GC/37, TAFS1/98, TAFS1GC/98, TAFS1xx/yy (xx=A-Z or blank, yy=00-99 or blank 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, HongKong
Manufacturer : MMD Hong Kong Holding Limited
Address : Unit 1006, 10th Floor, C-Bons International Center, 108 Wai Yip Street, Kwun Tong, Kowloon, HongKong
Factory : Guoguang Electric Co.,Ltd.
Address : No.8 Jinghu Road, Xinya Street, Huadu Reg, Guangzhou, China
Date of Receipt : Jan. 19, 2022
Date of Test : Jan. 19, 2022 ~ Mar. 11, 2022
Issued Date : Apr. 19, 2022
Report Version : R00
Test Sample : Engineering Sample No.: DG2022011384-1
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091
FCC Title 47 Part 2.1091

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

Vincent. Tan

Prepared by : Vincent Tan

Chay. Cai

Approved by : Chay Cai



TESTING CERT #5123.02

Add: No. 3 Jinshagang 1st Rd. Shixia, Dalang Town Dongguan City, Guangdong 523792 People's Republic of China

Tel: +86-769-8318-3000

Web: www.newbtl.com

REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-8-2201C013	R00	Original Report.	Apr. 19, 2022	Valid

1. TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town Dongguan City, Guangdong 523792 People's Republic of China.

BTL's Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

2. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

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

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

Table for Filed Antenna: .

For BT Bluetooth Module:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1		EAN00229	PCB	I-PEX	5.25

Note: The antenna gain is provided by the manufacturer.

For 2.4GHz Ambilight Module:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1		EAN00228	PCB	I-PEX	2.69

Note: The antenna gain is provided by the manufacturer.

For 5GHz Ambilight Module:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1		EAN00228	PCB	I-PEX	5.69

Note: The antenna gain is provided by the manufacturer.

For 2.4GHz Play-Fi Module:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1		EAN00227	PCB	I-PEX	4.21

Note: The antenna gain is provided by the manufacturer.

For 5GHz Play-Fi Module:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1		EAN00226	PCB	I-PEX	4.91

Note: The antenna gain is provided by the manufacturer.

3. TEST RESULTS

Tune up tolerance(dBm)				
Bluetooth Module	Ambilight Module		Play-Fi Module	
BT	2.4GHz	5GHz	2.4GHz	5GHz
≤3.50	≤17.50	≤14.50	≤15.50	≤15.00

For BT _Bluetooth Module:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Max. Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
5.25	3.3497	3.50	2.2387	0.00149	1	Complies

For 2.4GHz _Ambilight Module:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.69	1.8578	17.50	56.2341	0.02079	1	Complies

For 5GHz _Ambilight Module:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
5.69	3.7068	14.50	28.1838	0.02079	1	Complies

For 2.4GHz _Play-Fi Module:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
4.21	2.6363	15.50	35.4813	0.01862	1	Complies

For 5GHz _Play-Fi Module:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
4.91	3.0974	15.00	31.6228	0.01950	1	Complies

For the max simultaneous transmission MPE:

Ratio			Total	Limit of Ratio	Test Result
Bluetooth Module	Ambilight Module	Play-Fi Module			
0.00149	0.02079	0.01950	0.04178	1	Complies

Note: The calculated distance is 20 cm.
Output power including tune up tolerance.

End of Test Report