RF Exposure report

Report No.:	HP190411KF01-FMP
FCC ID:	2ASKIMD6972
Product Name	CD BOOMBOX with Bluetooth® Wireless Technology
Test Model:	MD6972
Received Date:	2019-4-11
Test Date:	2019-4-11~2019-4-29
Issued Date:	2019-5-7
Applicant Name:	ANKANG COMATE TECH CO., LTD
Applicant Address:	North end of Gaoxin No.7 Road, The High-Tech Industrial Zone, Ankang Shaanxi, China
Issued By:	Hwa-Hsing (Dongguan) Testing Co., Ltd.
Lab Address:	No.101, Bld N1, Yuyuan 2Rd, Yuyuan Industrial Park, HuangJiang Town, Dongguan, China
Test Location:	No.101, Bld N1, Yuyuan 2Rd, Yuyuan Industrial Park, HuangJiang Town, Dongguan, China
FCC Designation Number:	CN1255
Standards:	FCC Part 2 (Section 2.1091) KDB 447498 D01 IEEE C95.1

The above equipment has been tested by **Hwa-Hsing (Dongguan) Testing Co., Ltd.**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : Tank **Date:** May 05, 2019

Tank Tan//Engineer

Approved by : Harry Li **Date:** May 07, 2019

Harry Li/ Supervisor

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Release control record

Issue No.	Reason for change	Date issued
HP190411KF01-FMP	Original release	May 07, 2019

1. RF exposure limit

Limits for maximum permissible exposure (MPE)

Limits for general population / uncontrolled exposure				
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Average time (minutes)
300-1500	…	…	F/1500	30
1500-100,000	…	…	1.0	30
Note: F = Frequency in MHz				

2. MPE calculation formula

$Pd = (Pout*G) / (4*pi*r^2)$

Where:

Pd = power density in mW/cm^2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

3. Calculation result of maximum conducted power

Classification: The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as Mobile Device.

The antennas provided to the EUT, please refer to the following table:

Frequency Band	Antenna Gain (dBi)	Antenna Type
2.4GHz Bluetooth	-0.58	PCB Antenna

Frequency band (MHz)	Max power (mW)	Antenna gain (dBi)	Distance (cm)	Power density (mW/cm^2)	Limit (mW/cm^2)
2400~2483.5MHz	1.592	-0.58	20	0.000298	1.0

Conclusion:

Therefore, the worst-case situation is 0.000298 mW/cm^2, which is less than “1”. This confirmed that the device compliance with FCC 1.1310 MPE limit.