RF Exposure Report

FCC ID:2BLKV-MAK001

Report No. : SSP24090140-3E

Applicant: Jiangmen Taikaiwei Technology Co., LTD

Product Name : Motorcycle Bluetooth Amplifier & Speaker

Model Name : MAK001

Test Standard: FCC CFR 47 PART 1.1307(b)

Date of Issue : 2024-10-11



Shenzhen CCUT Quality Technology Co., Ltd.

1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China; (Tel.:+86-755-23406590 website: www.ccuttest.com)

This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.

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APPROVE

Test Report Basic Information

Applicant....: Jiangmen Taikaiwei Technology Co., LTD

Workshop D1, Factory Building No. 3, Tingyuan Industrial Zone, Duruan

Address of Applicant..... Town, Pengjiang District, Jiangmen City, Guangdong Province, China

Manufacturer..... Jiangmen Taikaiwei Technology Co., LTD

Workshop D1, Factory Building No. 3, Tingyuan Industrial Zone, Duruan

Address of Manufacturer.....: Town, Pengjiang District, Jiangmen City, Guangdong Province, China

Motorcycle Bluetooth Amplifier & Speaker Product Name....:

Brand Name.....

Main Model..... MAK001

Series Models....:

FCC CFR 47 PART 1.1307(b)

Test Standard...... KDB 447498 D01 v06

Date of Test 2024-09-10 to 2024-10-11

Test Result....: PASS

(Coke Huang)

(Lieber Ouyang)

(Lahm Peng) Authorized Signatory.....

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Revision	Issue Date	Description	Revised By
V1.0	2024-10-11	Initial Release	Lahm Peng

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1. General Information

1.1 Product Information

Product Name:	Motorcycle Bluetooth Amplifier & Speaker		
Trade Name:	-		
Main Model:	MAK001		
Series Models:	-		
Rated Voltage:	DC 12V by car battery		
Hardware Version:	V1.0		
Software Version:	V1.0		
Note 1: The test data is gathered from a production sample, provided by the manufacturer.			

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Wireless Specification					
Wireless Standard:	Bluetooth BR+EDR/BLE				
Operating Frequency:	BT: 2402MHz ~2480MHz				
RF Output Power:	BR+EDR: 1.31dBm, BLE: 0.02dBm				
Antenna Gain:	0dBi				
Type of Antenna:	PCB Antenna				
Type of Device:	☐ Portable Device ☐ Modular Device				

1.2 Test Facilities

Shenzhen CCUT Quality Technology Co., Ltd.			
1F, Building 35, Changxing Technology Industrial Park, Yutang Street,			
Guangming District, Shenzhen, Guangdong, China			
L18863			
6893.01			
583813			
CN0164			

All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China.

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2.1 Standard and Limit

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

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Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm2)	Averaging time (minutes)		
	(A) Limits f	or Occupational/Controlle	d Exposures			
0.3-3.0	614	1.63	*(100)	6		
3.0-30	1842/f	4.89/f	*(900/f2)	6		
30-300	61.4	0.163	1.0	6		
300-1500			f/300	6		
1500-100,000			5	6		
	(B) Limits for General Population/Uncontrolled Exposure					
0.3-1.34	614	1.63	*(100)	30		
1.34-30	824/f	2.19/f	*(180/f2)	30		
30-300	27.5	0.073	0.2	30		
300-1500			f/1500	30		
1500-100,000			1.0	30		

f = frequency in MHz

Friis transmission formula: Pd = (Pout*G)/(4*pi*r2)

Where

Pd = power density in mW/cm2, 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

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

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2.2 Test Data and Results

For BR+EDR

Mode	Output power to antenna (dBm)	Tune-up Power(dBm)	Max Tune-up Power(dBm)	Output power to antenna (mW)	Power Density at R=20cm (mW/cm2)	Limit (mW/cm2)	Result
8DPSK	1.31	1(±1)	2	1.585	0.0003	1.0	PASS

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For BLE

Mode	Output power to antenna (dBm)	Tune-up Power(dBm)	Max Tune-up Power(dBm)	Output power to antenna (mW)	Power Density at R=20cm (mW/cm2)	Limit (mW/cm2)	Result
GFSK	0.02	0(±1)	1	1.259	0.0003	1.0	PASS

Remark: antenna gain=0dBi

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