


RF EXPOSURE REPORT

Applicant	Avantree Technology Co., Ltd.
Address	The 4th Floor, Yuepeng Building, No.1019 Jiabin Rd, Luohu District, Shenzhen, China



Manufacturer or Supplier	ARKON ELECTRONICS (HUIZHOU) CO., LIMITED
Address	NO.4 Taihao Road, High-tech Industrial Park, Sandong Town, Huicheng District, Huizhou, Guangdong, China
Product	2.4GHz Digital Wireless Headphone
Brand Name	
Model	WSHT-280
Additional Model & Model Difference	N/A
Date of tests	July 08, 2020 ~ July 14, 2020

☒ **FCC Part 2 (Section 2.1091)**

☒ **KDB 447498 D01**

☒ **IEEE C95.1**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Ryan Lu Project Engineer / EMC Department	Tested by Glyn He Assistant Manager / EMC Department
	 Date: Aug. 14, 2020

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM200715N001	Original release	July 14, 2020
FM-BQOZ-WDG-P20080116	Basic the above original release report: 1. Change the applicant name and Brand 2. The test model name DH1000K change to WSHT-280 3. Change new FCC ID: 2AITF-WSHT-280-N	Aug. 14, 2020

1. CERTIFICATION

FCC ID:	2AITF-WSHT-280-N
PRODUCT:	2.4GHz Digital Wireless Headphone
BRAND NAME:	 Avantree®
MODEL NO.:	WSHT-280
ADDITIONAL NO.:	N/A
APPLICANT:	Avantree Technology Co., Ltd.
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1

2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm ²)	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	F/1500	30
1500-100,000	1.0	30

F = Frequency in MHz

3. MPE CALCULATION FORMULA

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

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

4. 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**.

5. ANTENNA GAIN

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

Function	Transmitter Circuit	Peak Gain (dBi)	Antenna Type
Wireless (GFSK)	Chain 0	0	PCB Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED AV POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
Wireless (GFSK)	2406-2472	10	+0.5	9.5	10.5

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
Wireless (GFSK)	2406~2472	9.97

The final calculation results:

Frequency band (MHz)	Max average power (dBm)	Antenna gain (dBi)	Distance (cm)	Power density (mW/cm ²)	Limit (mW/cm ²)
Wireless (GFSK)2406-2472	10.5	0	20	0.00223	1.0

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