

RF EXPOSURE REPORT

Applicant	ARKON ELECTRONICS (HUIZHOU) CO., LIMITED.
Address	NO.4 Taihao Road, High-tech Industrial Park, Sandong Town, Huicheng District, Huizhou, Guangdong, 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	ARKON, ARTISTE, EMERSON, DAYSNEW, Avantree, Naxa, Victor
Model	DH1000K
Additional Model & Model Difference	EE-9000, DH1000J, D1000AJ, DH1000T, DH1000L, D1, WSHT-280, Item 12281, EE-9000-YY, VE-9000-YY, NE-9000-YY (YY means unit color, it can be A to Z or N/A) (Only different for model name, appearance color and trademark for trade purpose)
Date of tests	Sep. 09, 2023 ~ Sep. 27, 2023

- ☒ **FCC Part 2 (Section 2.1091)**
- ☒ **KDB 447498 D01 V06**
- ☒ **IEEE C95.1**

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

Tested by Lucas Chen Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	
	Date: Oct. 27, 2023

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

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Test Report No.: FM2310WDG0050

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2310WDG0050	Original release	Oct. 27, 2023

1. CERTIFICATION

FCC ID:	2APBSDH1001E-001T
PRODUCT:	2.4GHz Digital Wireless Headphone
BRAND NAME:	ARKON, ARTISTE, EMERSON, DAYSNEW, Avantree, Naxa, Victor
MODEL NO.:	DH1000K
ADDITIONAL NO.:	EE-9000; DH1000J; D1000AJ; DH1000T; DH1000L; D1; WSH-280; Item 12281; EE-9000-YY、VE-9000-YY、NE-9000-YY(YY means unit color, it can be A to Z or N/A)
APPLICANT:	ARKON ELECTRONICS (HUIZHOU) CO., LIMITED.
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01 V06
	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

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

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:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
Chain 0	-2.2	PCB Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

When the measurement distance is specified at 3 m, the relationship between EIRP and field strength can be expressed by the following formula:

$$\text{EIRP(dBm)} = \text{E(dB } \mu\text{V/m)} - 95.3$$

Mode	Frequency (MHz)	E (dB $\mu\text{V/m}$)	EIRP (dBm)	conducted Power (dBm)
GFSK	2440	85.38	-9.92	-7.72

The tuned conducted Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
GFSK	2404-2477	-8	+2	-10	-6

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
2404-2477	-6	-2.2	20	0.00003	1.0

--- END ---