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
Model	DH1000K
Additional Model & Model Difference	DH1000J; D1000AJ; DH1000AJ; DH1000L; D1,WSHT-280; Item 12281;
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: July 17, 2020

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM200715N001	Original release	July 17, 2020

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1. CERTIFICATION

FCC ID:	2APBSDH1001K-001T
PRODUCT:	2.4GHz Digital Wireless Headphone
BRAND NAME:	ARKON, ARTISTE
MODEL NO.:	DH1000K
ADDITIONAL NO.:	DH1000J; D1000AJ; DH1000AJ; DH1000L; D1,WSHT-280; Item 12281;
APPLICANT:	ARKON ELECTRONICS (HUIZHOU) CO., LIMITED
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

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

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

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	10.5	9.5

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
Wireless (GFSK)	2402~2480	10.25

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	0.002107	1.0

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