

TEST REPORT

Reference No. : WTD22D03038440W002
FCC ID : 2A5MDAR0102PH
Applicant..... : HiFun Design and Trading, Inc
Address..... : 4575 Webb Bridge Rd #4193, Alpharetta, GA, US
Manufacturer : Huizhou City Huiyang QU Xinxu Town JinShunYan Electronic
Processing Factory
Address..... : Tangxia Chanjing village, Xinxu Town, Huiyang District, Huizhou City,
Guangdong, China
Brand Name..... : Arkrocket
Product..... : Taurus Jukebox
Model(s) : AR01-02PH, AR-01-02PH-OAK+ST, AR-01-02PH-CLA+ST,
AR01-02PH-CLA, AR01-02PH-OAK, AR01-02PH-OAK+ST,
AR01-02PH-CLA+ST, AR01-02PH-CLASSIC, AR-01-02PH-OAK01,
AR01-02PH-BLK, AR01-02PH-BLK+ST, AR01-02PH-BWN,
AR01-02PH-BWN+ST, AR01-02PH-PIK, AR01-02PH-PIK+ST,
AR01-02PH-WHT, AR01-02PH-WHT+ST, AR01-02PH-FOT,
AR01-02PH-FOT+ST
Standards..... : FCC Part 1.1307
Date of Receipt sample : 2022-03-09
Date of Test : 2022-03-09 to 2022-04-13
Date of Issue..... : 2022-04-20
Test Result..... : Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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3. Revision History

Test report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD22D03038440 W002	2022-03-09	2022-03-09 to 2022-04-13	2022-04-20	Original	-	Valid

4. General Information

4.1. General Description of E.U.T.

Product:	Taurus Jukebox
Model(s):	AR01-02PH, AR-01-02PH-OAK+ST, AR-01-02PH-CLA+ST, AR01-02PH-CLA, AR01-02PH-OAK, AR01-02PH-OAK+ST, AR01-02PH-CLA+ST, AR01-02PH-CLASSIC, AR-01-02PH-OAK01, AR01-02PH-BLK, AR01-02PH-BLK+ST, AR01-02PH-BWN, AR01-02PH-BWN+ST, AR01-02PH-PIK, AR01-02PH-PIK+ST, AR01-02PH-WHT, AR01-02PH-WHT+ST, AR01-02PH-FOT, AR01-02PH-FOT+ST
Model difference:	All same except for the color of shell and model name. The model of test sample is AR-01-02PH.
Bluetooth Version:	V4.2
Operation Frequency:	2402-2480MHz, 79 Channels in total
Max. RF output power:	4.57dBm
Antenna installation:	PCB Printed Antenna
Antenna Gain:	0dBi
Type of Modulation:	GFSK, $\pi/4$ DQPSK, 8DPSK
Hardware Version:	REV: 2_1
Software Version:	BYL01_REC_V13

4.2. Details of E.U.T.

Ratings:	DC 13.0V from adapter
Adapter:	Manufacturer: Dongguan Guanjin Electronics Technology Co., Ltd Model: K65S130500E2 Input: 100-240V ~ 50/60Hz 1.8A Output: 13.0V $\equiv$ 5.0A 65.0W

5. Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307	PASS

6. RF Exposure

Test Requirement: FCC Part 1.1307

Evaluation Method: FCC Part 2.1091 & KDB 447498 D01 General RF Exposure Guidance v06

6.1. Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

6.2. The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	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

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz; *Plane-wave equivalent power density

6.3. MPE Calculation Method

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

S = power density (in appropriate units, e.g. mW/cm²)

P = output power to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

From the peak EUT RF output power, the minimum mobile separation distance, R=20cm, as well as the gain of the used antenna, the RF power density can be obtained

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. conducted Output Power (dBm)	Max. conducted Output Power (mW)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	Result
0	1.000	4.57	2.86	0.000570	1	Compliance

6.4. Result: Compliance

No SAR measurement is required.

=====End of Report=====