

TEST REPORT

Reference No. : WTS20S06036486W002
FCC ID : 2AWUM-P27
Applicant..... : Shenzhen Aiketai Technology Co.,Ltd.
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Manufacturer : AJS Electronics Limited
Address..... : 15/F, Liuchuang Building II, No. 29, South Ring Road, South Area
Hi-Tech Zone, Nanshan District, Shenzhen, China
Product..... : Audio Product
Model(s) : P27, D2, D3, D5, D6, D7, D8, D9, D10, D11, D12, D15, D16, D18,
D19, D20, P12, P15, P16, P18, P19, P20, P21, P22, P24, P25, P28,
P29, P30, P32, P35, P36, P40, P42, P45, P48, P50, P51, P52, P53,
P54, P55, P56, P58, P59, H2, H3, H5, H6, H7, H8, H9, H10, H11,
H15, H16, H17, H18, H19, H20, H22, H24, H25, H27, H28, H30,
H32, H36, H37, H39, E2, E3, E5, E6, E7, E8, E9, E10, E11, E12,
E20, E30, E40, E50, E60, E70, E80, E90, E100, E110, E120
Brand Name : PHEANOO
Standards..... : FCC 1.1307
Date of Receipt sample : 2020-06-12
Date of Test : 2020-06-15 to 2020-06-26
Date of Issue..... : 2021-02-04
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
WTS20S06036 486W002	2020-06-12	2020-06-15 to 2020-06-26	2021-02-03	original	-	Replaced

4 General Information

4.1 General Description of E.U.T.

Product:	Audio Product
Model(s):	P27, D2, D3, D5, D6, D7, D8, D9, D10, D11, D12, D15, D16, D18, D19, D20, P12, P15, P16, P18, P19, P20, P21, P22, P24, P25, P28, P29, P30, P32, P35, P36, P40, P42, P45, P48, P50, P51, P52, P53, P54, P55, P56, P58, P59, H2, H3, H5, H6, H7, H8, H9, H10, H11, H15, H16, H17, H18, H19, H20, H22, H24, H25, H27, H28, H30, H32, H36, H37, H39, E2, E3, E5, E6, E7, E8, E9, E10, E11, E12, E20, E30, E40, E50, E60, E70, E80, E90, E100, E110, E120
Model difference:	Only the model names are different.
Operation Frequency:	2402-2480MHz, 79 Channels in total
Antenna installation:	PCB Printed Antenna
Antenna Gain:	0 dBi
Type of Modulation:	GFSK, $\pi/4$ DQPSK, 8DPSK

4.2 Details of E.U.T.

Ratings:	110-240V~, 50/60Hz, 120W
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5 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS

6 RF Exposure

Test Requirement: FCC Part 1.1307

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

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.

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

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
0.00	1.000	0.23	1.05	0.000210	1	Compliance

Result: Compliance

No SAR measurement is required.

7 Photographs of test setup and EUT.

EUT - External Photos

Refer to Appendix P27 Photos.

EUT - Internal Photos

Refer to Appendix P27 Photos.

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