



Report No.: PTC22032301804E-FC02

FCC TEST REPORT

FCC ID: 2BDJW-AK09

Product	:	Wake Up Light alarm clock
Model Name	:	JN01, JN01-S, JN01-M, RI-CM026
Brand	:	N/A
Report No.	:	PTC22032301804E-FC02
Prepared for		
Ark Union Technology (Shenzhen) Co., Ltd.		
Room 1111, Huiyi Fortune Building, No. 9 Zhongxin Road, Gaofeng Community, Dalang Street, Longhua District, Shenzhen City		
Prepared by		
Precise Testing & Certification Co., Ltd.		
Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China.		



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TEST RESULT CERTIFICATION

Applicant's name : Ark Union Technology (Shenzhen) Co., Ltd.
Address : Room 1111, Huiyi Fortune Building, No. 9 Zhongxin Road,
Gaofeng Community, Dalang Street, Longhua District, Shenzhen
City
Manufacture's name : Ark Union Technology (Shenzhen) Co., Ltd.
Address : Room 1111, Huiyi Fortune Building, No. 9 Zhongxin Road,
Gaofeng Community, Dalang Street, Longhua District, Shenzhen
City
Product name : Wake Up Light alarm clock
Model name : JN01, JN01-S, JN01-M, RI-CM026
Test procedure : FCC CFR47 Part 1.1307(b)(1)
Test Date : Apr. 20, 2026 to Jun. 15, 2026
Date of Issue : Jun. 15, 2026
Test Result : PASS

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

A handwritten signature in black ink, appearing to read 'Jack Zhou'.

Jack Zhou / Engineer

Technical Manager:

A handwritten signature in black ink, appearing to read 'Simon Pu'.

Simon Pu / Manager



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2 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	FCC CFR47 Part 1.1307(b)(1)	PASS
Remark:		
N/A: Not Applicable		



3 General Information

3.1 General Description of E.U.T.

Product Name	:	Wake Up Light alarm clock
Model Name	:	JN01
Additional model	:	JN01-S, JN01-M, RI-CM026
Specification	:	BLE
Operation Frequency	:	2402-2480MHz
Number of Channel	:	40 channels For DTS
Type of Modulation	:	GFSK, For DTS
Antenna installation	:	PCB antenna
Antenna Gain	:	2.499 dBi
Power supply	:	Input: DC 5V=2A
Hardware Version	:	MBV2.2
Software Version	:	V117



4 RF Exposure

Test Requirement : FCC Part 1.1307(b)(1)

Evaluation Method : KDB 447498 D01 General RF Exposure Guidance v06

4.1 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.

4.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
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	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
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



4.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } P_d \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$P_d = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

4.4 Test Result

Item	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Tune up tolerance (dBm)	Max Tune Up Power (mW)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	Result
2440_BLE_1M	1.78	4.86	4.86±1	3.854784	0.000767	1	Pass

*****THE END REPORT*****