TEST REPORT

Report Number.....:	90292-22-72-25-PP003	
Date of issue.....:	2025-08-20	
Prepared by (+signature).....:	Pale Cai	Pale Cai
Reviewer (+signature).....:	Duke Chen	Duke Chen
Approved by (+signature).....:	Jason Gao	Jason Gao
Testing Laboratory name.....:	SLG-CPC Testlaboratory Co., Ltd.	
Address.....:	No. 11, Wu Song Road, Dongcheng District Dongguan, Guangdong Province, 523117, People's Republic of China	
Applicant's name.....:	GUANGDONG ROULE ELECTRONICS CO.,LTD.	
Address.....:	No. 12, Pingdong 3rd Road, Nanping Industry Community, Zhuhai City, GuangDong, China	
Manufacturer's name .....:	GUANGDONG ROULE ELECTRONICS CO.,LTD.	
Address.....:	No. 12, Pingdong 3rd Road, Nanping Industry Community, Zhuhai City, GuangDong, China	
Factory's name .....:	GUANGDONG ROULE ELECTRONICS CO.,LTD.	
Address.....:	No. 12, Pingdong 3rd Road, Nanping Industry Community, Zhuhai City, GuangDong, China	
Standard(s).....:	FCC 1.1310： §1.1307(b)	
Test item description.....:	WIFI ALARM KIT	
Trade Mark.....:	VOXON, RL	
Model/Type reference.....:	RL-WH03DCT; RL-WIFI05DCT; 68056	
FCC ID .....:	YI6-RL-WIFI05DC	
Date of receipt of test item...:	2022.04.07	
Date (s) of performance of test.....:	2022.04.07-2025.08.20	
Summary of Test Results.....:	Pass	
The Summary of Test Results based on a technical opinion belongs to the standard(s).		

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Modified History

Report No.	Revision Date	Summary
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1. EUT Specification

Product:	WIFI ALARM KIT
Model Number:	RL-WH03DCT; RL-WIFI05DCT; 68056
Test Model No:	All models have the same circuit diagram, PCB layout , Antennas and module, Only the model names are different.
Power supply:	☒DC 5V form Micro USB
Modulation:	OOK
Frequency Range:	433.92 MHz
Max Transmit Power:	74.96 dBuV/m@3m(0.0095mW)
Antenna Gain:	-2.64 dBi
Antenna:	PCB Antenna
IEEE 802.11 WLAN Mode Supported :	☒802.11b ☒802.11g ☒802.11n(20MHz channel bandwidth)
Modulation :	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;
Operating Frequency Range :	☒2412-2462MHz for 802.11b/g/n(HT20);
Number of Channels :	☒11 channels for 802.11b/g/n(HT20);
Antenna Type :	PCB Antenna
Antenna Gain :	1.37dBi
Power Supply:	☒DC 5V form Micro USB
	☐Adapter supply:
Temperature Range:	-10°C ~ +50°C

2. Test Requirement

Limits for Maximum Permissible Exposure (MPE)

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)
Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm2)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f^2)	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				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f^2)	30
30–300	27.5	0.073	0.2	30
300–1500			f/1500	30
1500–100,000			1.0	30

Friis transmission formula: Pd=(Pout*G)\(4*pi*R^2)

Where
Pd= Power density in mW/cm2
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
Pd the limit of MPE, 1mW/cm2. If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is Reached.

3. Test Procedure：

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

Measurement Result

Channel Frequency (MHz)	Antenna Gain (dBi)	Max Conducted power(dBm)	Max Tune-UP Conducted power (dBm)	Power density at 20cm (mW/cm^2)	Power density Limits (mW/cm^2)
2462	1.37	15.69	16	0.01085	1
433.92	-2.46	-17.78	-18	0.0000083	1

EIRP(dBm)=E(dBuV/m)-95.2=74.96-95.2=-20.24dBm

433.92MHz technology and 2.4G wifi technology It can be launched simultaneously:
0.1085+0.0000083=0.1085083<1(mW/cm^2)

No RF Exposure Evaluation/SAR test is required.

Remark: The Max Conducted Peak Output Power data refer to report Report No.: 90292-22-72-25-PP001, 90292-22-72-25-PP002

*** End of Report ***

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