

## TEST REPORT

Report Number .....	90293-22-72-25-PP002
Date of issue .....	2025.7.1
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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, 
Model/Type reference .....	RL-R43; 68060; TK-WD009; TK-WD010; VK-WD009; VX-WD010
FCC ID .....	YI6-RL-R43
Date of receipt of test item .....	2022.04.07
Date (s) of performance of test:	2022.04.07-05.06
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
90293-22-72-25-PP002	2025.7.1	Original Report

## 1. EUT Specification

Product:	WIFI ALARM KIT
Model Number:	RL-R43; 68060; TK-WD009; TK-WD010; VK-WD009; VX-WD010
Test Model No:	RL-R43
Power supply:	<input checked="" type="checkbox"/> DC 4.5V from Battery (AAA*3)
Modulation:	OOK
Frequency Range:	433.92 MHz
Max Transmit Power:	67.75 dBuV/m@3m(0.0018mW)
Antenna Gain:	2 dBi
Antenna:	Helical Antenna
Temperature Range:	-10°C ~ +50°C

## 2. Test Requirement

### RF EXPOSURE EVALUATION

#### Test Requirement:

According to §15.247(i) and §1.1307(b)(1), 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 level in excess of the Commission's guidelines.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances*  $\leq 50$  mm are determined by:

$$[(\max. power of channel, including tune-up tolerance, mW) / (\min. test separation distance, mm)] \cdot [\sqrt{f_{(GHz)}}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR,}^{24} \text{ where}$$

- $f_{(GHz)}$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation<sup>25</sup>
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum *test separation distance* is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is  $< 5$  mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by §2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval. One antenna is available for the EUT. The minimum separation distance is 5mm.

Max Power (dBm)	Max Power (mW)	Frequency (MHz)	Min. Distance (mm)	Calc. Result	limit
-27.45	0.0018	433.92	5	0.00024	3.0

$$\text{EIRP(dBm)} = \text{E(dBuV/m)} - 95.2 = 67.75 - 95.2 = -27.45 \text{ dBm}$$

According to KDB 447498 D01 General RF Exposure Guidance v06, no stand-alone required for 433M antenna, and no simultaneous SAR measurement is required.

\*\*\* End of Report \*\*\*

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