

TEST REPORT

Report Number. :	90661-25-72-25-PP002	
Date of issue :	2025.07.24	
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Manufacturer's name :	Dongguan S-KING Limited	
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Factory's name :	Dongguan S-KING Limited	
Address :	Office:309,International Commerce Buliding,Nangcheng, Dongguan,China	
Standard(s) :	FCC 1.1310: §1.1307(b)	
Test item description :	PCBA	
Trade Mark :	N/A	
Model/Type reference :	BG001F, BG001, BGXXX	
FCC ID :	2ANSL-BG001F-TLW	
Date of receipt of test item :	2025.07.07	
Date (s) of performance of test:	2025.07.07- 2025.07.18	
Test Report Form No. :	FCC CFR Part 1_B1	
Master TRF..... :	Dated 2021-09	
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
90661-25-72-25-PP002	2025.07.24	Original Report

1. EUT Specification

Product:	PCBA
Model Number:	BG001F, BG001, BGXXX
Power supply:	<input checked="" type="checkbox"/> : DC 7.4V or DC 12V <input type="checkbox"/> : Adapter information
Modulation:	BLE(GFSK)
Frequency Range:	2402MHz~2480MHz
Number of Channels:	40channels
Antenna Gain:	PCB antenna , 0.32dBi Gain
Antenna:	PCB antenna

2. Test Requirement

RF EXPOSURE EVALUATION

According to FCC 1.1310: 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)

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by: $[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where $f(\text{GHz})$ is the RF channel transmit frequency in GHz. Power and distance are rounded to the nearest mW and mm before calculation. The result is rounded to one decimal place for comparison. The test exclusions are applicable only when the minimum test separation distance is ≤ 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 is applied to determine SAR test exclusion.

According to KDB447498D01 General RF Exposure Guidance v06

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

3. Measurement Result

Operation Mode: BLE						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
GFSK - Lowest (2402MHz)	-0.970	-1±1	0	1.00	0.31	3.0
GFSK - Middle (2440MHz)	-0.865	-1±1	0	1.00	0.31	
GFSK - Highest (2480MHz)	-0.767	-1±1	0	1.00	0.32	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

The Maximum power is less than the limit, complies with the exemption requirements, SAR is exempted.

Remark: The Max Conducted Peak Output Power data refer to report Report No.: 90661-25-72-25-PP001.

THE END

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