

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  $\leq 50$  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  $\leq 7.5$  for 10-g extremity SAR, where  $\cdot f(\text{GHz})$  is the RF channel transmit frequency in GHz. • Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup> • The result is rounded to one decimal place for comparison 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 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  $\leq 3.0$ , 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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