

TEST REPORT

Product Name	:	Wireless Speaker
Model Number	:	V80020BT, V80020BT-BLK
FCC ID	:	2AL9B-V80020BT

Prepared for Address	::	Shenzhen Shenglai Technology Co., Limited Room 3110, Block C, Xintian Century Business Centre, Fuming Road, Futian District, Shenzhen, China
Prepared by Address		EMTEK (DONGGUAN) CO., LTD. -1&2/F.,Building 2, Zone A, Zhongda Marine Biotechnology Research and Development Base, No.9, Xincheng Avenue, Songshanhu High-technology Industrial Development Zone, Dongguan, Guangdong, China TEL: +86-0769-22807078 FAX: +86-0769-22807079

Report Number	:	EDG2406240009E00102R			
Date(s) of Tests	:	Jun 24, 2024 to Jul 16, 2024			
Date of issue	:	Jul 17, 2024			

 东第市信测科技有限公司

 地址:广东省东莞市松山湖高新技术产业开发区新城大道9号中大海洋生物科技研发基地A区2号办公楼负一层、第二层 网址:Http://www.emtek.com.cn 邮箱:E-mail: project@emtek.com.cn

 EMTEK (Dongguan) Co., Ltd.

 Add: -182/F .,Building 2,Zone A,Zhongda Marine Biotechnology Research and Development Base ,No.9, Xincheng Avenue,Songshanhu High-technology Industrial Development Zone,
 Dongguan, Guangdong,China Http://www.emtek.com.cn



Table of Contents

1. TEST RESULT CERTIFICATION	3
2. EUT SPECIFICATION	5
3. TEST REQUIREMENT	6
4. MEASUREMENT RESULT	7



 东第市信测科技有限公司

 地址:广东省东莞市松山湖高新技术产业开发区新城大道9号中大海洋生物科技研发基地A区2号办公楼负一层、第二层 网址:Http://www.emtek.com.cn 邮箱:E-mail: project@emtek.com.cn

 EMTEK (Dongguan) Co., Ltd.

 Add: -182/F .,Building 2,Zone A,Zhongda Marine Biotechnology Research and Development Base ,No.9, Xincheng Avenue,Songshanhu High-technology Industrial Development Zone,
 Dongguan, Guangdong,China Http://www.emtek.com.cn



1. TEST RESULT CERTIFICATION

Applicant	:	Shenzhen Shenglai Technology Co., Limited
Address	:	Room 3110, Block C, Xintian Century Business Centre, Fuming Road, Futian District, Shenzhen, China
Manufacturer	:	Guangdong Shenglai Technology Co., Ltd
Address	:	Zhongtai Industrial Zone, Hengshan Village, Gurao Town, Chaoyang Area, Shantou City, Guangdong Province, China
Factory	:	Guangdong Shenglai Technology Co., Ltd
Address	:	Zhongtai Industrial Zone, Hengshan Village, Gurao Town, Chaoyang Area, Shantou City, Guangdong Province, China
EUT	:	Wireless Speaker
Model Name	:	V80020BT, V80020BT-BLK
Trademark	:	Vivitar

Measurement Procedure Used:

APPLICABLE STANDARDS				
STANDARD TEST RESULT				
§ 15.247(i), § 2.1093	PASS			

The above equipment was tested by EMTEK(DONGGUAN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 15.247(i), § 2.1093.

The test results of this report relate only to the tested sample identified in this report

Date of Test :	Jun 24, 2024 to Jul 16, 2024			
Prepared by :	Warren Deng			
	Warren Deng /Editor			
	Tim Dong			
Reviewer :	V			
	<u>Tim Dong /Supervisor</u>			
	A CONSIGNATION OF THE STILLE			
Approve & Authorized Signer :	Sam Lv / Manager			

东莞市信測科技有限公司 地址:广东省东莞市松山湖高新技术产业开发区新城大道9号中大海洋生物科技研发基地A区2号办公楼负一层、第二层 网址:Http://www.emtek.com.cn 邮箱:E-mail: project@emtek.com.cn EMTEK (Dongguan) Co., Ltd. Add: -1&2/F .,Building 2,Zone A,Zhongda Marine Biotechnology Research and Development Base ,No.9, Xincheng Avenue,Songshanhu High-technology Industrial Development Zone, Dongguan, Guangdong,China Http://www.emtek.com.cn E-mail: project@emtek.com.cn



Modified History

Version	Report No.	Report No. Revision Date		
	EDG2406240009E00102R	/	Original Report	



 东第市信测科技有限公司

 地址:广东省东莞市松山湖高新技术产业开发区新城大道9号中大海洋生物科技研发基地A区2号办公楼负一层、第二层 网址:Http://www.emtek.com.cn 邮箱:E-mail: project@emtek.com.cn

 EMTEK (Dongguan) Co., Ltd.

 Add: -182/F .,Building 2,Zone A,Zhongda Marine Biotechnology Research and Development Base ,No.9, Xincheng Avenue,Songshanhu High-technology Industrial Development Zone,
 Dongguan, Guangdong,China Http://www.emtek.com.cn



2. EUT Specification

Characteristics	Description			
Product:	Wireless Speaker			
Model Number:	V80020BT, V80020BT-BLK These model are the same expect the model name and the color of the product, Here select V80020BT for test.			
Sample:	1#			
Data Rate:	1Mbps for GFSK modulation 2Mbps for π/4-DQPSK modulation 3Mbps for 8DPSK modulation			
Modulation:	GFSK, π/4-DQPSK, 8DPSK			
Operating Frequency Range(s) :	2402-2480MHz			
Number of Channels:	79 channels			
Transmit Power Max:	0.11 dBm(0.001026 W)			
Antenna Gain:	-0.58 dBi			
Power supply:	DC 5V from USB DC 3.7V from battery			
Evaluation applied:	□ MPE Evaluation SAR Evaluation			

 东第市信测科技有限公司

 地址:广东省东莞市松山湖高新技术产业开发区新城大道9号中大海洋生物科技研发基地A区2号办公楼负一层、第二层 网址:Http://www.emtek.com.cn 邮箱:E-mail: project@emtek.com.cn

 EMTEK (Dongguan) Co., Ltd.

 Add: -182/F .,Building 2,Zone A,Zhongda Marine Biotechnology Research and Development Base ,No.9, Xincheng Avenue,Songshanhu High-technology Industrial Development Zone,
 Dongguan, Guangdong,China Http://www.emtek.com.cn



3. Test Requirement

SAR Evaluation

According to 447498 D01 V06, 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)] $\cdot [\sqrt{f_{(GHz)}}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,²⁴ where

- f_(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁵
- 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 quality for TCB approval. One antenna is available for the EUT. The minimum separation distance is 5mm.

东莞市信測科技有限公司 地址:广东省东莞市松山湖高新技术产业开发区新城大道9号中大海洋生物科技研发基地A区2号办公楼负一层、第二层 网址:Http://www.emtek.com.cn 邮箱:E-mail: project@emtek.com.cn EMTEK (Dongguan) Co., Ltd. Add: -1&2/F .,Building 2,Zone A,Zhongda Marine Biotechnology Research and Development Base ,No.9, Xincheng Avenue,Songshanhu High-technology Industrial Development Zone, Dongguan, Guangdong,China Http://www.emtek.com.cn E-mail: project@emtek.com.cn



4. Measurement Result

Antenna gain: -0.58 dBi

Transmit Frequency (MHz)	Mode	Measured Power (dBm)	Tune upPower (dBm)	Max tune up power (dBm)	Calculation Result	1-g SAR
2402	GFSK	-0.82	0±1	1	0.3902	3
2441	GFSK	-1.03	-1±1	0	0.3125	3
2480	GFSK	-0.77	0±1	1	0.3965	3
2402	П/4-DQPSK	-0.19	0±1	1	0.3902	3
2441	П/4-DQPSK	-0.42	0±1	1	0.3934	3
2480	П/4-DQPSK	-0.16	0±1	1	0.3965	3
2402	8DPSK	0.11	0±1	1	0.3902	3
2441	8DPSK	-0.01	0±1	1	0.3934	3
2480	8DPSK	0.11	0±1	1	0.3965	3

According to KDB 447498 D01 V06, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.

*** End of Report ***

 东第市信測科技有限公司

 地址:广东省东莞市松山湖高新技术产业开发区新城大道9号中大海洋生物科技研发基地A区2号办公楼负一层、第二层 网址:Http://www.emtek.com.cn 邮箱:E-mail: project@emtek.com.cn

 EMTEK (Dongguan) Co., Ltd.

 Add: -1&2/F .,Building 2,Zone A,Zhongda Marine Biotechnology Research and Development Base ,No.9, Xincheng Avenue,Songshanhu High-technology Industrial Development Zone,
 Dongguan, Guangdong,China Http://www.emtek.com.cn E-mail: project@emtek.com.cn