

TEST REPORT

FCC ID	2ACZY-TBT4600
Test Report No	TCT250606E023
Date of issue	Jun. 13, 2025
Testing laboratory	SHENZHEN TONGCE TESTING LAB
Testing location/ address:	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China
Applicant's name	Bayit Home Automation Corp.
Address	85 Wagaraw Rd, Hawthorne NJ 07506, California 07506, United States
Manufacturer's name ...	Shenzhen Yihengda Electronic Technology Co., Ltd.
Address	Room 1007, 10th Floor, Building 4, Hegushan Hui City, Guangtian Road, Yanluo Subdistrict, Bao'an District, Shenzhen, China
Standard(s)	KDB 447498 D01 General RF Exposure Guidance v06
Product Name	BLUETOOTH WIRELESS SPEAKER
Trade Mark	Tech2
Model/Type reference	TBT4600, Z6
Rating(s)	Rechargeable Li-ion Battery DC 3.7V
Date of receipt of test item	Jun. 06, 2025
Date (s) of performance of test	Jun. 06, 2025 ~ Jun. 13, 2025
Tested by (+signature) ...	Onnado YE
Check by (+signature)	Beryl ZHAO
Approved by (+signature):	Tomsin

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1. General Product Information

1.1. EUT description

Product Name.....:	BLUETOOTH WIRELESS SPEAKER
Model/Type reference.....:	TBT4600
Sample Number.....:	TCT250606E022-0101
Operation Frequency	2402MHz~2480MHz
Modulation Type	GFSK, $\pi/4$ -DQPSK, 8DPSK
Antenna Type.....:	PCB Antenna
Antenna Gain.....:	2.499dBi
Rating(s).....:	Rechargeable Li-ion Battery DC 3.7V

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

No.	Model No.	Tested with
1	TBT4600	☒
Other models	Z6	☐

Note: TBT4600 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names. So the test data of TBT4600 can represent the remaining models.

2. General Information

2.1. Test environment and mode

Item	Normal condition
Temperature	+25°C
Voltage	DC 3.7V
Humidity	56%
Atmospheric Pressure:	1008 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel

2.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

3. Facilities and Accreditations

3.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- A2LA-No.: 4320.01

SHENZHEN TONGCE TESTING LAB

The testing lab has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

3.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

4. Test Results and Measurement Data

According to KDB 447498 D01 General RF Exposure Guidance 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 guidance.

The 1-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, 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
- When the minimum test separation distance is < 5 mm, a distance of 5 mm according is applied to determine SAR test exclusion.
- The result is rounded to one decimal place for comparison

- BDR+EDR:

Channel	Frequency (GHz)	Max. Power (dBm)	Tune up Power (dBm)	Max. Tune up Power (dBm)	Max. Tune up Power (mW)	Test distance (mm)	Result	exclusion thresholds for 1-g SAR
CH 00	2.402	5.51	5 $\pm$ 1	6	3.98	5	1.23	3.0

Result:

Base on the calculation value, No SAR measurement is required.

*******END OF REPORT*******