

TEST REPORT

Product Name : smart watch
Model Number : TB39, TB62D, TB67D, TB40D
FCC ID : 2BCC8-TB39S

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1. TEST RESULT CERTIFICATION

Applicant : Shenzhen Luomandi Electronic Technology Co., Ltd
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 Manufacturer : Shenzhen Luomandi Electronic Technology Co., Ltd
 Address : Longhua Dist, Minzhi St, 810 Mintai Bldg, No. 241 Minzhi Ave Shenzhen, Guangdong, China
 Factory : Shenzhen Luomandi Electronic Technology Co., Ltd
 Address : Longhua Dist, Minzhi St, 810 Mintai Bldg, No. 241 Minzhi Ave Shenzhen, Guangdong, China
 EUT : smart watch
 Model Name : TB39, TB62D, TB67D, TB40D
 Trademark : N/A

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 : September 04, 2025 to September 18, 2025

Una Yu

Prepared by :

Una Yu /Editor

Reviewer :

Joe Xia

Joe Xia/Supervisor

Lisa Wang

Approve & Authorized Signer :

Lisa Wang/Manager



Modified History

Version	Report No.	Revision Date	Summary
	ENS2508280253W02402R	/	Original Report



2. EUT Specification

Characteristics	Description
Product:	smart watch
Model Number:	TB39, TB62D, TB67D, TB40D Note: All models are the same, except the model name, color and charging stand. Select model TB39 here to complete all the tests.
Sample:	1#
Data Rate:	BLE: 1Mbps for GFSK modulation BT: 1Mbps for GFSK modulation 2Mbps for $\pi/4$ -DQPSK modulation 3Mbps for 8DPSK modulation
Modulation:	BLE: GFSK BT: GFSK, $\pi/4$ -DQPSK, 8DPSK
Operating Frequency Range(s) :	2402-2480MHz
Number of Channels:	79 channels
Transmit Power Max:	1.67 dBm(0.001469 W) for BT -0.08 dBm(0.000982 W) for BLE
Antenna Gain:	2.09 dBi
Power supply:	DC 3.7V from battery, DC 5V from USB
Evaluation applied:	☐ MPE Evaluation ☒ SAR Evaluation

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* ≤ 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,²⁴ where

- $f_{\text{(GHz)}}$ 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 ≤ 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.

4. Measurement Result

gain:	2.09	FCC	SAR					
Mode	Channel Frequency (MHz)	Measured Power (dBm)	E.I.R.P(dBm)	Tune upPower (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR	Verdict
GFSK	2402	0.25	2.34	2±1	3	0.6184670	3	PASS
	2441	0.15	2.24	2±1	3	0.6234676	3	PASS
	2480	-0.29	1.80	1±1	2	0.4991785	3	PASS
pi/4-DQPSK	2402	1.10	3.19	3±1	4	0.7786038	3	PASS
	2441	1.15	3.24	3±1	4	0.7848992	3	PASS
	2480	0.43	2.52	2±1	3	0.6284284	3	PASS
8-DPSK	2402	1.82	3.91	3±1	4	0.7786038	3	PASS
	2441	1.67	3.76	3±1	4	0.7848992	3	PASS
	2480	1.26	3.35	3±1	4	0.7911445	3	PASS

gain:	2.09	FCC	SAR					
Mode	Channel Frequency (MHz)	Measured Power (dBm)	E.I.R.P(dBm)	Tune upPower (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR	Verdict
GFSK	2402	0.21	2.30	2±1	3	0.6184670	3	PASS
	2441	0.79	2.88	2±1	3	0.6234676	3	PASS
	2480	-0.45	1.64	1±1	2	0.4991785	3	PASS

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

*** End of Report ***