

TEST REPORT

Product Name : Bluetooth Retro Phone Handset
Model Number : RP-ES63-BN, ES63-RP-TA
FCC ID : 2ACE5-ES63BN

Prepared for : TELEPHONE EST (HK) CO., LTD
Address : Room709,7F, FuLi tianhe commercial building,Linhe East Road and tianhe district, Guangzhou, China

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1. TEST RESULT CERTIFICATION

Applicant : TELEPHONE EST (HK) CO., LTD
 Address : Room709,7F, FuLi tianhe commercial building,Linhe East Road and tianhe district, Guangzhou, China
 Manufacturer : TELEPHONE EST (HK) CO., LTD
 Address : Room709,7F, FuLi tianhe commercial building,Linhe East Road and tianhe district, Guangzhou, China
 EUT : Bluetooth Retro Phone Handset
 Model Name : RP-ES63-BN, ES63-RP-TA
 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 : July 5, 2023 to July 18, 2023

Una Yu

Prepared by : _____

Una Yu /Editor

Reviewer : _____

Joe Xia

Joe Xia/Supervisor

[Signature]



Approve & Authorized Signer : _____

Lisa Wang/Manager

Modified History

| Version | Report No. | Revision Date | Summary |
|---------|----------------------|---------------|-----------------|
| | ENS2306300193W00202R | / | Original Report |
| | | | |
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2. EUT Specification

| Characteristics | Description |
|---------------------------------------|--|
| Product: | Bluetooth Retro Phone Handset |
| Model Number: | RP-ES63-BN, ES63-RP-TA These model are the same expect the model name, Here select RP-ES63-BN for test. |
| Sample: | 1# |
| Data Rate: | 1Mbps for GFSK modulation 2Mbps for $\pi/4$ -DQPSK modulation 3Mbps for 8DPSK modulation |
| Modulation: | GFSK, $\pi/4$ -DQPSK, 8DPSK |
| Operating Frequency Range(s) : | 2402-2480MHz |
| Number of Channels: | 79 channels for BT |
| Transmit Power Max: | -3.5 dBm(0.000447 W) |
| Antenna Gain: | 2.21 dBi |
| Power supply: | DC5V from USB DC 3.7V from battery |
| Evaluation applied: | <input type="checkbox"/> MPE Evaluation <input checked="" type="checkbox"/> SAR Evaluation |

3. Test Requirement

RF EXPOSURE EVALUATION

According to §15.247(i) and §1.1307(b)(1), 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

Antenna gain: 2.21 dBi

When a single module works, the measurement results are as follows:

| Transmit Frequency (MHz) | Mode | Measured Power (dBm) | Tune up Power (dBm) | Max tune up power (dBm) | Calculation Result | 1-g SAR |
|--------------------------|-----------|----------------------|---------------------|-------------------------|--------------------|---------|
| 2402 | GFSK | -4.51 | -5±1 | -4 | 0.1234 | 3 |
| 2441 | GFSK | -6.16 | -7±1 | -6 | 0.0785 | 3 |
| 2480 | GFSK | -7.11 | -8±1 | -7 | 0.0628 | 3 |
| 2402 | Π/4-DQPSK | -4.22 | -5±1 | -4 | 0.1234 | 3 |
| 2441 | Π/4-DQPSK | -5.87 | -6±1 | -5 | 0.0988 | 3 |
| 2480 | Π/4-DQPSK | -6.48 | -7±1 | -6 | 0.0791 | 3 |
| 2402 | 8DPSK | -3.5 | -4±1 | -3 | 0.1554 | 3 |
| 2441 | 8DPSK | -5.14 | -6±1 | -5 | 0.0988 | 3 |
| 2480 | 8DPSK | -6.06 | -7±1 | -6 | 0.0791 | 3 |

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

*** End of Report ***