

Test Report No.: 24041004-SE-US-02

## RF Exposure Report

FCC ID: PAZAUDIOBBM-BU

Applicant: Kan Tsang New Technology Development Limited

Address: Unit 1, 11/F., Nan Fung Commercial Centre, No. 19 Lam Lok Street,  
Kowloon Bay, Hong Kong

Manufacturer: Dong Guan Kan Tsang Electroacoustic Technology Co., Ltd.

Address: Room 402, Unit 1, No.8, Lu Yi 1st Road, Tang Xia Town, Dongguan,  
Guangdong, China

Product: Audio Baby Monitor

Brand(s): N/A

Test Model(s): KT-288D(BU)

Series Model(s): See Section 2.1

Test Date: Apr. 26, 2024~ May. 08, 2024

Issued Date: Aug. 05, 2024

Issued By: Hwa-Hsing (Dongguan) Testing Co., Ltd.

Address: No.101, Building N1, Yuyuan 2 Road, Yuyuan Industrial Park,  
HuangJiang Town, Dongguan City, People's Republic of China

Test Firm Registration No.: 915896

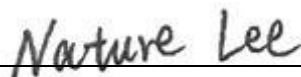
Designation No.: CN1255

Standards: FCC Part 2 (Section 2.1091)  
KDB 447498 D01

IEEE C95.1

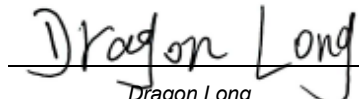
The above equipment has been tested by **Hwa-Hsing (Dongguan) Testing Co., Ltd.**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by :



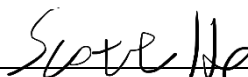
Nature Lee

Reviewed by :



Dragon Long

Approved by :



Scott He

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Release

[Ver. 1.5](#)

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Release control record

| Issue No.         | Reason for change | Date issued   |
|-------------------|-------------------|---------------|
| 24041004-SE-US-02 | Original Release  | Aug. 05, 2024 |

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## 1 General Information

### 1.1 General Description of EUT

|                      |   |
|----------------------|---|
| Product              | Audio Baby Monitor  |
| Sample No.           | HS2404240003  |
| Test Model(s)        | KT-288D(BU)   |
| Series Model(s)      | KT-268L(BU), KT-269L(BU), KT- 268D(BU), KT-269D(BU), KT-288L(BU), KT-268A(BU), KT- 268N(BU), KT-269N(BU), KT-269A(BU), KT-288N(BU), DC-ABM001, DC-ABM201, DC-ABM002 |
| Status of EUT        | Engineering Prototype   |
| Power Supply Rating  | DC 5V from Adapter  |
| Modulation Type      | GFSK  |
| Transfer Rate        | 1/2Mbps   |
| Operating Frequency  | 2402 ~ 2480MHz  |
| Number of Channel    | 79  |
| Maximum Output Power | -0.96dBm (Average)  |
| Antenna Type         | Monopole Antenna  |
| Antenna Gain         | 2.62dBi   |
| Antenna Connector    | I-PEX   |
| Accessory Device     | Adapter   |
| Data Cable Supplied  | USB Cable: Unshielded, 150cm  |

Note:

1. Please refer to the EUT photo document (Reference No.: 24041004-02-01&02) for detailed product photo.
2. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.
3. Model difference:

All models are identical, the difference between them are:

- Button position and quantity on the PCB layout are different for each model; (Details refer to photos)
- With or without mesh cloth for them;
- With or without night light panel for them;

Details refer to below table:

| Model name  | With mesh cloth                     | Without mesh cloth                  | With night light panel              | Without night light panel |
|---|-------------------------------------|-------------------------------------|-------------------------------------|---------------------------|
| KT-288D(BU)   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>  |
| KT-268L(BU),<br>DC-ABM001,<br>DC-ABM201,<br>DC-ABM002 | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>  |
| KT-269L(BU)   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>  |
| KT-268D(BU)   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>  |
| KT-269D(BU)   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>  |

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|             |                                     |                                     |                                     |                                     |
|-------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| KT-288L(BU) | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| KT-268A(BU) | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| KT-268N(BU) | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| KT-269N(BU) | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| KT-269A(BU) | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| KT-288N(BU) | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

- If no other specified, the model KT-288D(BU) was selected to conduct all tests in this report.

4. The EUT can be powered by adapter as list as the following (only different for Manufacturer and model name):

|               | Adapter 1                          | Adapter 2                                 |
|---------------|------------------------------------|---|
| Manufacturer: | Shenzhen YWK Electronics Co., Ltd. | SHENZHEN YOUNGMINXING TECHNOLOGY CO., LTD |
| Model:        | YWK-AD050100                       | YC-R02051000                              |
| Input:        | AC 100-240V<br>50/60Hz 0.3A        | AC 100-240V<br>50/60Hz 0.2A               |
| Output:       | DC 5V 1.0A 5.0W                    | DC 5V 1.0A 5.0W                           |

**2 RF exposure limit**

Limits for maximum permissible exposure (MPE)

| Limits for general population / uncontrolled exposure |                                  |                                  |  |                           |
|---|----------------------------------|----------------------------------|--|---------------------------|
| Frequency range<br>(MHz)                              | Electric field strength<br>(V/m) | Magnetic field strength<br>(A/m) | Power density<br>(mW/cm <sup>2</sup> ) | Average time<br>(minutes) |
| 300-1500  | ...                              | ...                              | F/1500                                 | 30                        |
| 1500-100,000  | ...                              | ...                              | 1.0                                    | 30                        |
| Note: F = Frequency in MHz                            |                                  |                                  |  |                           |

**2.1 MPE calculation formula**

$$Pd = (Pout * G) / (4 * \pi * r^2)$$

*Where:*Pd = power density in mW/cm<sup>2</sup>

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

**Classification:**

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user.

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**3 Calculation result of maximum conducted power**

The antennas provided to the EUT, please refer to the following table:

| Function | Frequency (MHz) | Antenna Gain (dBi) | Antenna Type | Transmit and Receive Chain | Maximum AVG Power |
|----------|-----------------|--------------------|--------------|----------------------------|-------------------|
| 2.4G     | 2402-2480       | 2.62               | Monopole     | 1TX,1RX                    | -0.96dBm          |

| Frequency (MHz) | Max power (mW) | Antenna gain (dBi) | Distance (cm) | Power density (mW/cm <sup>2</sup> ) | Limit (mW/cm <sup>2</sup> ) |
|-----------------|----------------|--------------------|---------------|-------------------------------------|-----------------------------|
| 2402-2480       | 0.8017         | 2.62               | 20            | 0.00292                             | 1.0                         |

**Conclusion:**

Therefore, the worst-case situation is 0.00814 mW/cm<sup>2</sup>, which is less than "1". This confirmed that the device compliance with FCC 1.1310 MPE limit.

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**Appendix – Information on the Testing Laboratories**

We, [Hwa-Hsing \(Dongguan\) Testing Co., Ltd.](#), A global provider of TESTING and CERTIFICATION services for consumer products, electronic products and wireless information technology products. Adhering to the core values “HONEST and TRUSTWORTHY, OBJECTIVE and IMPARTIALITY, RIGOROUS and AFFICIENT”, commitment to provide professional, perfect and efficient comprehensive ONE-STOP solution of TESTING and CERTIFICATION services for Manufacturers, Buyers, Traders, Brands, Retailers. Assist client to better manage risk, protect their brands, reduce costs and cut time to over 150 markets in global. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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