

Test Report No.: 26020701-SE-US-01

## RF Exposure Report

FCC ID: Z23EPBC01

Applicant: Teenage Engineering AB

Address: Textilgatan 31, 120 30 Stockholm, Sweden

Manufacturer: Teenage Engineering AB

Address: Textilgatan 31, 120 30 Stockholm, Sweden

Product(s): BC-1 PROFESSIONAL CD PLAYER

Brand(s): teenage engineering

Test Model(s): TE036AS030

Series Model(s): TE036ASXXX (XXX= 030-129 or Nil for color)

Test Date: Jun. 09, 2026 ~ Jul. 09, 2026

Issued Date: Jul. 10, 2026

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

Standards: FCC Part 2(Section 2.1093)  
KDB 447498 D01 General RF Exposure Guidance v06  
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 :



Approved by :



Scott He

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**Release control record**

| Issue No.         | Reason for change | Date Issued   |
|-------------------|-------------------|---------------|
| 26020701-SE-US-01 | Original Release  | Jul. 10, 2026 |

Lab: [Hwa-Hsing \(Dongguan\) Testing Co., Ltd.](#)Address: [No.101, Building N1, Yuyuan 2 Road, Yuyuan Industrial  
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[Ver. 1.5](#)

**1 General Information****1.1 General Description of EUT**

|                                  |                                                     |
|----------------------------------|-----------------------------------------------------|
| Product(s)                       | BC-1 PROFESSIONAL CD PLAYER                         |
| Test Model(s)                    | TE036AS030                                          |
| Sample No.                       | HS26020701001, HS26020701002                        |
| Series Model(s)                  | TE036ASXXX (XXX= 030-129 or Nil for color)          |
| Status of EUT                    | Engineering Prototype                               |
| Power Supply Rating              | DC 5V/2A or LI BATTERY 3.7V/2000MAH                 |
| Modulation Type                  | GFSK, $\pi/4$ DQPSK, 8DPSK for FHSS<br>GFSK for DTS |
| Transfer Rate                    | 1Mbps, 2Mbps, 3Mbps                                 |
| Operating Frequency              | 2402 ~ 2480MHz                                      |
| Number of Channel                | 79 for FHSS<br>40 for DTS 1Mbps<br>37 for DTS 2Mbps |
| Output Power (Peak)              | 1.89dBm for FHSS<br>1.92dBm for DTS                 |
| Antenna Type and<br>Antenna Gain | Chip Antenna;<br>1.60dBi Gain                       |
| Accessory Device                 | CD*1                                                |

**Note:**

1. Please refer to the EUT photo document (Reference No.: 26020701-01&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. Hwa-Hsing (Dongguan) Testing Co., Ltd. is not responsible for the accuracy of the information provided by the manufacturer.
4. For the test results, the EUT had been tested with all conditions, and only the worst case was shown in the test report.
5. Model differences: These models only differ in the model name and color.
6. Engineering prototype electrically identical to the tested sample and that any changes are non-RF related and will not affect compliance.

## 2 RF exposure limit

The corresponding SAR Exclusion Threshold condition, listed below:

- 1) 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:  
$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, 16 where}$$
  - $f(\text{GHz})$  is the RF channel transmit frequency in GHz
  - Power and distance are rounded to the nearest mW and mm before calculation
  - The result is rounded to one decimal place for comparison

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, the distance of 5 mm is applied to determine SAR test exclusion.
- 2) At 100 MHz to 6 GHz and for test separation distances  $> 50$  mm, the SAR test exclusion threshold is determined according to the following:
  - a) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · ( $f(\text{MHz})/150$ )] mW, at 100MHz to 1500 MHz
  - b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · 10] mW at  $> 1500$  MHz and  $\leq 6$  GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
  - a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by  $[1 + \log(100/f(\text{MHz}))]$  for test separation distances  $> 50$  mm and  $< 200$  mm.
  - b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by  $\frac{1}{2}$  for test separation distances  $\leq 50$  mm.
  - c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

## 3 Calculation

The antenna of this product, under normal use condition, is at less than 5mm away from the body of the user.

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#### 4 Calculation SAR test exclusion thresholds

Antenna gain: 1.60 dBi

Bluetooth: DSS

| Mode  | Channel Freq. (MHz) | peak conducted output power (dBm) | Tune-up power (dBm) | Max tune-up power (dBm) | Max tune-up power (mW) | Limits (mW) |
|-------|---------------------|-----------------------------------|---------------------|-------------------------|------------------------|-------------|
| GFSK  | 2402                | 1.78                              | 1±1                 | 2                       | 0.4912658              | <3          |
|       | 2441                | 1.12                              | 1±1                 | 2                       | 0.4952379              | <3          |
|       | 2480                | 1.35                              | 1±1                 | 2                       | 0.4991785              | <3          |
| 8DPSK | 2402                | 1.89                              | 1±1                 | 2                       | 0.4912658              | <3          |
|       | 2441                | 1.25                              | 1±1                 | 2                       | 0.4952379              | <3          |
|       | 2480                | 1.48                              | 1±1                 | 2                       | 0.4991785              | <3          |

Bluetooth: DTS

| Mode   | Channel Freq. (MHz) | peak conducted output power (dBm) | Tune-up power (dBm) | Max tune-up power (dBm) | Max tune-up power (mW) | Limits (mW) |
|--------|---------------------|-----------------------------------|---------------------|-------------------------|------------------------|-------------|
| BLE_1M | 2402                | 1.92                              | 1±1                 | 2                       | 0.4912658              | <3          |
|        | 2440                | 1.23                              | 1±1                 | 2                       | 0.4952379              | <3          |
|        | 2480                | 1.56                              | 1±1                 | 2                       | 0.4991785              | <3          |
| BLE_2M | 2404                | 1.72                              | 1±1                 | 2                       | 0.4912658              | <3          |
|        | 2440                | 1.21                              | 1±1                 | 2                       | 0.4952379              | <3          |
|        | 2478                | 1.77                              | 1±1                 | 2                       | 0.4991785              | <3          |

**Conclusion:** Therefore this device complies with FCC's RF radiation exposure limits for general population without SAR evaluation.

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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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