



# FCC TEST REPORT

## FCC ID: 2AMNH-AREALELEGANCE

|                                                                                   |   |                                                                                   |
|-----------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------|
| Product                                                                           | : | SPEAKER                                                                           |
| Model Name                                                                        | : | US-10034854;US-10034855(see the page 7 for the series list)                       |
| Brand                                                                             | : |  |
| Report No.                                                                        | : | PTC20121003202E-FC02                                                              |
| <b>Prepared for</b>                                                               |   |                                                                                   |
| Berlin Brands Group Inc                                                           |   |                                                                                   |
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| <b>Prepared by</b>                                                                |   |                                                                                   |
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## TEST RESULT CERTIFICATION

Applicant's name : Berlin Brands Group Inc

Address : 101 Montgomery Street, Suite 2050 San Francisco, California,  
United States. 94104

Manufacture's name : Shenzhen City Enkor Electronics Ltd

Address : the 2nd&3rd floor,Building P and building Q,Shengguang  
Ind.park,152#Donghuan Road,Huangpu Xinqiao street,Bao'an  
District,Shenzhen,China.

Product name : SPEAKER

Model name : US-10034854;US-10034855(see the page 7 for the series list)

Test procedure KDB 447498 D01 General RF Exposure Guidance v06

Test Date : December 28, 2020 to January 13, 2021

Date of Issue : January 13, 2021

Test Result : Pass

This device described above has been tested by PTS, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

A handwritten signature in black ink that reads "Leo Yang" with a long horizontal stroke at the end.

Leo Yang / Engineer

Technical Manager:

A handwritten signature in black ink that appears to read "Chris Du" in a stylized, cursive font.

Chris Du / Manager



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Report No.: PTC20121003202E-FC02

## 2 Test Summary

| Test Items                                                        | Test Requirement | Result |
|-------------------------------------------------------------------|------------------|--------|
| Maximum Permissible Exposure<br>(Exposure of Humans to RF Fields) | 1.1307(b)(1)     | PASS   |
| Remark:                                                           |                  |        |
| N/A: Not Applicable                                               |                  |        |



### 3 General Information

#### 3.1 General Description of E.U.T.

|                     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name        | : | SPEAKER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Model Name          | : | US-10034854;US-10034855;US-70003140;US-70003141;US-70003142;<br>US-70003143;H6907 ;H3903;US-10033065;Z-Plus;H5188 ;US-10000148;<br>Areal-525;US-10007842;US-10022257;H5818;US-10000147;5.1-J;<br>US-10022256;V5810;US-10009139;V51-RED;H7826;US-10006335;<br>CONCEPT 620;US-10030885;US-70001374;US-70001375;Areal 652;<br>US-10030886;US-70001376;US-70001377;H5873;US-10033066;<br>Concept 520;H5880;US-10033067;Concept 720;H5919;US-10033068;Areal<br>Touch;<br>H7901;US-10033070;X-Gaming;E200;US-10006309;Hi2028;R230;US-<br>10004765;<br>FS 23;H3830;US-10004814;HF583;M108;US-10033072;Linie 100 A;H7931;<br>US-10036134;US-70003357;US-70003358;H5961 ;US-10036135;Areal 5.1;<br>US-10036136;M2201;US-10036137;Linie 200 A;US-10033203<br>Note:These models are identical, and all models have the same RF module<br>and<br>Antenna, except for color of enclosure and model No. for trading purpose. |
| Bluetooth Version   | : | Bluetooth V5.0 +EDR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Operating frequency | : | 2402-2480MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Numbers of Channel  | : | 79 channels                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Antenna Type        | : | Internal Antenna                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Antenna Gain        | : | 0 dBi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Type of Modulation  | : | GFSK, $\pi/4$ -DQPSK,8DPSK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Power supply        | : | Input: AC100-240V 50/60Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Hardware Version    | : | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Software Version    | : | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## 4 RF Exposure

Test Requirement : FCC Part 1.1307(b)(1)

Evaluation Method : FCC Part 2.1091

### 4.1 Requirements

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 levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

### 4.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

| Frequency Range | Electric Field | Magnetic Field | Power Density (S) | Averaging Time |
|-----------------|----------------|----------------|-------------------|----------------|
| 0.3-3.0         | 614            | 1.63           | (100)*            | 6              |
| 3.0-30          | 1842 / f       | 4.89 / f       | (900 / f)*        | 6              |
| 30-300          | 61.4           | 0.163          | 1.0               | 6              |
| 300-1500        |                |                | F/300             | 6              |
| 1500-100,000    |                |                | 5                 | 6              |

(B) Limits for General Population / Uncontrolled Exposure

| Frequency Range | Electric Field | Magnetic Field | Power Density (S) | Averaging Time |
|-----------------|----------------|----------------|-------------------|----------------|
| 0.3-1.34        | 614            | 1.63           | (100)*            | 30             |
| 1.34-30         | 824/f          | 2.19/f         | (180/f)*          | 30             |
| 30-300          | 27.5           | 0.073          | 0.2               | 30             |
| 300-1500        |                |                | F/1500            | 30             |
| 1500-100,000    |                |                | 1.0               | 30             |

Note: f = frequency in MHz ; \*Plane-wave equivalent power density



#### 4.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } P_d \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$P_d = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

#### 4.4 Test Result

| Item | Antenna Gain (numeric) | Max. Peak Output Power (dBm) | Peak Output Power (mW) | Power Density (mW/cm <sup>2</sup> ) | Limit of Power Density (mW/cm <sup>2</sup> ) | Result |
|------|------------------------|------------------------------|------------------------|-------------------------------------|----------------------------------------------|--------|
| BT   | 1.00                   | -0.466                       | 0.90                   | 0.0002                              | 1                                            | Pass   |

\*\*\*\*\*THE END REPORT\*\*\*\*\*