



BST Technology (Shenzhen) Co.,Ltd.

Report No.:BSTXD190512579401EM

**RF Exposure Measurement and Test Report For**  
**Shenzhen Boke Digital Technology Co.,Ltd.**



|                  |  |
|------------------|--|
| Prepared For :   |  |
| Product Name:    | Bluetooth speaker  |
| Model :          | BS-165,P328.321,BS-166,BS-200,BS-199,BS-198,BS-197,<br>BS-196,BS-195   |
| Prepared By :    | BST Technology (Shenzhen) Co.,Ltd.<br>No.7,New Era Industrial Zone, Guantian,Bao'an<br>District,Shenzhen,Guangdong,China |
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Prepared by :

*Libby Pang*

Assistant

Tested by:

*Jarre Ke*

Test Engineer

Reviewer :



Supervisor

Approved & Authorized Signer :

Manager



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## 1 - GENERAL INFORMATION

### 1.1 Product Description for Equipment Under Test (EUT)

|                          |  |
|--------------------------|--|
| Applicant:               |  |
| Address of applicant:    |  |
| Manufacturer :           |  |
| Address of manufacturer: |  |

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

| Items                | Description  |
|----------------------|--|
| EUT Description:     | Bluetooth speaker  |
| Model No.:           | BS-165,P328.321,BS-166,BS-200,BS-199,BS-198,BS-197,BS-196,BS-195 |
| Supplementary Model: | N/A  |
| Antenna Gain:        | 0dBi   |
| Rated Voltage:       | DC 5V  |

Remark: \* The test data gathered are from the production sample provided by the manufacturer.

\*Supplementary models have the same circuit, only the appearance different.



## 1.2 Objective

The objective of the following report is used to demonstrate that EUT operated in a manner that ensures the public is not exposed to radio frequency energy levels in excess of the relative provisions of EN 62479:2010.

## 1.3 low-power exclusion level

### P<sub>max</sub>

Specified condition on device output power, which may also depend on other variables such as frequency and distance of radiating source from persons, such that the exposure level produced by the source will not exceed a specific basic restriction. If the device output power is less than P<sub>max</sub>, then the device is deemed to comply with the basic restrictions

**Table A.1 – Example values of SAR-based  $P_{\max}$  for some cases described by ICNIRP, IEEE Std C95.1-1999 and IEEE Std C95.1-2005**

| Guideline / Standard    | SAR limit, $SAR_{\max}$<br>W/kg | Averaging mass, $m$<br>g | $P_{\max}$<br>mW | Exposure tier <sup>a</sup> | Region of body <sup>a</sup>        |
|-------------------------|---------------------------------|--------------------------|------------------|----------------------------|------------------------------------|
| ICNIRP [1]              | 2                               | 10                       | 20               | General public             | Head and trunk                     |
|                         | 4                               | 10                       | 40               | General public             | Limbs                              |
|                         | 10                              | 10                       | 100              | Occupational               | Head and trunk                     |
|                         | 20                              | 10                       | 200              | Occupational               | Limbs                              |
| IEEE Std C95.1-1999 [2] | 1,6                             | 1                        | 1,6              | Uncontrolled environment   | Head, trunk, arms, legs            |
|                         | 4                               | 10                       | 40               | Uncontrolled environment   | Hands, wrists, feet and ankles     |
|                         | 8                               | 1                        | 8                | Controlled environment     | Head, trunk, arms, legs            |
|                         | 20                              | 10                       | 200              | Controlled environment     | Hands, wrists, feet and ankles     |
| IEEE Std C95.1-2005 [3] | 2                               | 10                       | 20               | Action level               | Body except extremities and pinnae |
|                         | 4                               | 10                       | 40               | Action level               | Extremities and pinnae             |
|                         | 10                              | 10                       | 100              | Controlled environment     | Body except extremities and pinnae |
|                         | 20                              | 10                       | 200              | Controlled environment     | Extremities and pinnae             |

<sup>a</sup> Consult the appropriate standard for more information and definitions of terms.



## 1.4 Human Exposure Assessment Results

|   |                      |
|---|----------------------|
| Max output power in Watt (TP)   | BT:3.57dBm (2.275mW) |
| Pmax(according to the table A.1)  | 13dBm(20mW)          |
| <p>Conclusion:</p> <p>The max average output power is 3.57dBm (2.275mW) <math>\leq</math> 13dBm(20mW)</p> <p>Therefore, This proves that the unit complies with the EN 62479:2010 for RF exposure requirement, and the SAR is not required.</p> |                      |

....End of Report.....