# RF Exposure Report

| | |
|---|---|
| **Applicant:** | DIGIVIEW TECHNOLOGY LIMITED |
| **Address of Applicant:** | Room 509, 5/F, Tian Shu Block, Xinggang Tongchuanghui, No.6099 Baoan District, Shenzhen, GuangDong, China |
| **Manufacturer/Factory:** | DIGIVIEW TECHNOLOGY LIMITED |
| **Address of Manufacturer/Factory:** | Room 509, 5/F, Tian Shu Block, Xinggang Tongchuanghui, No.6099 Baoan District, Shenzhen, GuangDong, China |

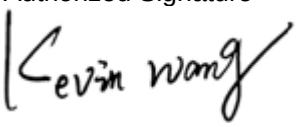
**Equipment Under Test (EUT)**

| | |
|---|---|
| Product Name: | BLUETOOTH SPEAKER |
| Trade Mark: | DigiView |
| Model No.: | DSBT150-A |
| **Applicable standards:** | EN 62311:2008 |
| **Date of sample receipt:** | November 28, 2023 |
| **Date of Test:** | November 28, 2023 To December 8, 2023 |
| **Date of report issue:** | December 8, 2023 |
| **Test Result:** | PASS * |

* In the configuration tested, the EUT complied with the standards specified above.

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EU Declaration of Conformity and compliance with all relevant EU Directives.

Authorized Signature



Kevin Wang
Laboratory Manager

## 2 Version

| Version No. | Date | Description |
|---|---|---|
| *01* | *December 8, 2023* | *Original* |
| | | |
| | | |
| | | |
| | | |

***Prepared By:*** Gary Wang ***Date:*** *December 8, 2023*

***Project Engineer***

***Reviewed By:*** Kevin Wang ***Date:*** *December 8, 2023*

***Reviewer***

# 3 Contents

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# 4 General Information

## 4.1 General Description of EUT

| | |
|---|---|
| Product Name: | BLUETOOTH SPEAKER |
| Brand Name: | DigiView |
| Model No.: | DSBT150-A |
| Power Supply: | DC 5V⎓0.7A (power by type c port charging) or DC 3.7V 2600mAh battery |
| Antenna Type: | Integral antenna |
| Antenna Gain: | 0.0 dBi (Declared by Applicant) |
| Operation Frequency: | 2402~2480MHz |
| Channel numbers: | BT BLE:40 |
| Channel separation: | BT BLE:2MHz |
| Modulation technology: | BT BLE:GFSK |

## 4.2 Description of Support Units

None.

## 4.3 Deviation from Standards

None.

## 4.4 Abnormalities from Standard Conditions

None.

## 4.5 Other Information Requested by the Customer

None.

# 5 Technical Requirements Specification in EN 62311

| | |
|---|---|
| Test Requirement: | EN 62311 |
| Test Method: | EN 62311 |
| General Description of Applied Standards | EN 62311 Generic standard to demonstrate the compliance of electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields (0 Hz–300 GHz) is to demonstrate the compliance of apparatus with the basic restrictions or reference levels on exposure of the general public related to electric, magnetic, electromagnetic fields as well as induced and contact current. |
| Limit: | According to EN 62311, the criteria listed in the below table shall be used to evalouate the environmental inpact of human exposure to radio-frequency (RF) radiation as specified table 2 of Council Recommendation 1999/519/EC. |
| Test method: | According to the Far field calculation formula: |
| Result: | Pass |

**Reference levels for electric, magnetic and electromagnetic fields (0 Hz to 300 GHz, unperturbed rms values)**

| Frequency range | E-field strength (V/m) | H-field strength (A/m) | B-field (μT) | Equivalent plane wave power density $S_{eq}$ (W/m²) |
|---|---|---|---|---|
| 0-1 Hz | — | $3,2 \times 10^4$ | $4 \times 10^4$ | — |
| 1-8 Hz | 10 000 | $3,2 \times 10^4/f^2$ | $4 \times 10^4/f^2$ | — |
| 8-25 Hz | 10 000 | 4 000/f | 5 000/f | — |
| 0,025-0,8 kHz | 250/f | 4/f | 5/f | — |
| 0,8-3 kHz | 250/f | 5 | 6,25 | — |
| 3-150 kHz | 87 | 5 | 6,25 | — |
| 0,15-1 MHz | 87 | 0,73/f | 0,92/f | — |
| 1-10 MHz | $87/f^{1/2}$ | 0,73/f | 0,92/f | — |
| 10-400 MHz | 28 | 0,073 | 0,092 | 2 |
| 400-2 000 MHz | $1,375\ f^{1/2}$ | $0,0037\ f^{1/2}$ | $0,0046\ f^{1/2}$ | f/200 |
| 2-300 GHz | 61 | 0,16 | 0,20 | 10 |

Notes:

1. $f$ as indicated in the frequency range column.

**Far Field Calculation Formula**

$$E = \frac{\sqrt{30PG(\theta,\phi)}}{r}$$

G = antenna gain relative to an isotropic antenna
$\theta, \phi$ = elevation and azimuth angles to point of investigation
r = distance from observation point to the antenna

The antenna of the product, under normal use condition is at least 20cm away from the body of the user. Warning statement ot the user for keeing 20cm separation distance and the prohibition of operating to a person has been printed on the user manual. So, this product under normal use is located on electromagnetic far field between the human body.

**Measurement Data**:
Distance to human body: 20cm

| BLE mode | | | | | |
|---|---|---|---|---|---|
| Frequency (MHz) | Output Power (dBm) | Output Power (mW) | E Field Strength (V/m) | Limit (V/m) | Result |
| 2402~2480 | 0.87 | 1.22 | 1.21 | 61.00 | Pass |

------End------