



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: 

Model No.: DSBT149-A

Applicable standards: EN 62311:2008

Date of sample receipt: November 27, 2023

Date of Test: November 27, 2023 To December 1, 2023

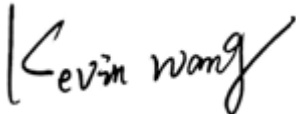
Date of report issue: December 1, 2023

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 1, 2023 | Original |
| | | |
| | | |
| | | |
| | | |

Prepared By:

Gang Wang

Date:

December 1, 2023

Project Engineer

Reviewed By:

Kevin Wang

Date:

December 1, 2023

Reviewer





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4 General Information

4.1 General Description of EUT

| | |
|------------------------|--|
| Product Name: | BLUETOOTH SPEAKER |
| Brand Name: |  |
| Model No.: | DSBT149-A |
| Power Supply: | DC 5V $\overline{\text{---}}$ 2A (power by type c port charging) or DC 3.7V 300mAh 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: | <p>According to EN 62311, the criteria listed in the below table shall be used to evalouate the environmental impact of human exposure to radio-frequency (RF) radiation as specified table 2 of Council Recommendation 1999/519/EC.</p> <p style="text-align: center;">Reference levels for electric, magnetic and electromagnetic fields (0 Hz to 300 GHz, unperturbed rms values)</p> <table><tr><th>Frequency range</th><th>E-field strength (V/m)</th><th>H-field strength (A/m)</th><th>B-field (μT)</th><th>Equivalent plane wave power density S_{eq} (W/m²)</th></tr><tr><td>0-1 Hz</td><td>—</td><td>3,2 × 10⁴</td><td>4 × 10⁴</td><td>—</td></tr><tr><td>1-8 Hz</td><td>10 000</td><td>3,2 × 10⁴/f²</td><td>4 × 10⁴/f²</td><td>—</td></tr><tr><td>8-25 Hz</td><td>10 000</td><td>4 000/f</td><td>5 000/f</td><td>—</td></tr><tr><td>0,025-0,8 kHz</td><td>250/f</td><td>4/f</td><td>5/f</td><td>—</td></tr><tr><td>0,8-3 kHz</td><td>250/f</td><td>5</td><td>6,25</td><td>—</td></tr><tr><td>3-150 kHz</td><td>87</td><td>5</td><td>6,25</td><td>—</td></tr><tr><td>0,15-1 MHz</td><td>87</td><td>0,73/f</td><td>0,92/f</td><td>—</td></tr><tr><td>1-10 MHz</td><td>87/f^{1/2}</td><td>0,73/f</td><td>0,92/f</td><td>—</td></tr><tr><td>10-400 MHz</td><td>28</td><td>0,073</td><td>0,092</td><td>2</td></tr><tr><td>400-2 000 MHz</td><td>1,375 f^{1/2}</td><td>0,0037 f^{1/2}</td><td>0,0046 f^{1/2}</td><td>f/200</td></tr><tr><td>2-300 GHz</td><td>61</td><td>0,16</td><td>0,20</td><td>10</td></tr></table> <p>Notes:</p> <p>1. <i>f</i> as indicated in the frequency range column.</p> | Frequency range | E-field strength (V/m) | H-field strength (A/m) | B-field (μT) | Equivalent plane wave power density S _{eq} (W/m ²) | 0-1 Hz | — | 3,2 × 10 ⁴ | 4 × 10 ⁴ | — | 1-8 Hz | 10 000 | 3,2 × 10 ⁴ /f ² | 4 × 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 |
| Frequency range | E-field strength (V/m) | H-field strength (A/m) | B-field (μT) | Equivalent plane wave power density S _{eq} (W/m ²) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-1 Hz | — | 3,2 × 10 ⁴ | 4 × 10 ⁴ | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1-8 Hz | 10 000 | 3,2 × 10 ⁴ /f ² | 4 × 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test method: | <p>According to the Far field calculation formula:</p> <p style="text-align: center;">Far Field Calculation Formula</p> <p>$E = \frac{\sqrt{30PG(\theta, \phi)}}{r}$ <i>G</i> = antenna gain relative to an isotropic antenna </p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**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 | 4.07 | 2.55 | 1.74 | 61.00 | Pass |

-----End-----