



# RF TEST REPORT

Product Name: Wireless microphone

Model Name: LDANNYMDB51US

FCC ID: 2AFF6-15HHYNNADL

Issued For : Adam Hall GmbH

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Issued By : Shenzhen LGT Test Service Co., Ltd.

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Report Number: LGT24E132HA01

Sample Received Date: May 29, 2024

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Date of Issue: Jun. 15, 2024

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## TEST REPORT CERTIFICATION

**Applicant:** Adam Hall GmbH

**Address:** Adam-Hall-Str. 1, 61267 Neu-Anspach, Germany

**Manufacture:** Enping Pasgao Electronic Company Limited

**Address:** V1 2nd District Industrial Transfer Park, Enping, Jiangmen, Guangdong, China

**Product Name:** Wireless microphone

**Trademark:** LD

**Model Name:** LDANNYMDB51US,

**Sample Status:** Normal

| APPLICABLE STANDARDS                                                    |              |
|-------------------------------------------------------------------------|--------------|
| STANDARD                                                                | TEST RESULTS |
| FCC 47CFR §2.1093<br>KDB 447498 D01 General RF Exposure<br>Guidance v06 | PASS         |

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### **Revision History**

| Rev. | Issue Date    | Revisions     |
|------|---------------|---------------|
| 00   | Jun. 15, 2024 | Initial Issue |
|      |               |               |



## 1. GENERAL INFORMATION

### 1.1 GENERAL DESCRIPTION OF THE EUT

|                   |                     |
|-------------------|---------------------|
| Product Name:     | Wireless microphone |
| Trademark:        | LD                  |
| Model Name:       | LDANNYMDB51US       |
| Series Model:     | N/A                 |
| Model Difference: | N/A                 |
| Frequency Bands:  | 514 MHz-542MHz      |
| Rating:           | DC 3V               |
| Hardware Version: | N/A                 |
| Software Version: | N/A                 |

### 1.2 TEST LABORATORY

|                           |                                                                                                                                                          |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Company Name:             | Shenzhen LGT Test Service Co., Ltd.                                                                                                                      |
| Address:                  | Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China |
| Accreditation Certificate | A2LA Certificate No.: 6727.01                                                                                                                            |
|                           | FCC Registration No.: 746540                                                                                                                             |
|                           | CAB ID: CN0136                                                                                                                                           |



## 2. FCC 47CFR §2.1093 REQUIREMENT

### 2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in KDB 447498 D01 General RF Exposure Guidance v06 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

### 2.2 LIMIT

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

| MHz  | 5   | 10  | 15  | 20  | 25  | mm                                      |
|------|-----|-----|-----|-----|-----|-----------------------------------------|
| 150  | 39  | 77  | 116 | 155 | 194 | SAR Test<br>Exclusion<br>Threshold (mW) |
| 300  | 27  | 55  | 82  | 110 | 137 |                                         |
| 450  | 22  | 45  | 67  | 89  | 112 |                                         |
| 835  | 16  | 33  | 49  | 66  | 82  |                                         |
| 900  | 16  | 32  | 47  | 63  | 79  |                                         |
| 1500 | 12  | 24  | 37  | 49  | 61  |                                         |
| 1900 | 11  | 22  | 33  | 44  | 54  |                                         |
| 2450 | 10  | 19  | 29  | 38  | 48  |                                         |
| 3600 | 8   | 16  | 24  | 32  | 40  |                                         |
| 5200 | 7   | 13  | 20  | 26  | 33  |                                         |
| 5400 | 6   | 13  | 19  | 26  | 32  |                                         |
| 5800 | 6   | 12  | 19  | 25  | 31  |                                         |
| MHz  | 30  | 35  | 40  | 45  | 50  | mm                                      |
| 150  | 232 | 271 | 310 | 349 | 387 | SAR Test<br>Exclusion<br>Threshold (mW) |
| 300  | 164 | 192 | 219 | 246 | 274 |                                         |
| 450  | 134 | 157 | 179 | 201 | 224 |                                         |
| 835  | 98  | 115 | 131 | 148 | 164 |                                         |
| 900  | 95  | 111 | 126 | 142 | 158 |                                         |
| 1500 | 73  | 86  | 98  | 110 | 122 |                                         |
| 1900 | 65  | 76  | 87  | 98  | 109 |                                         |
| 2450 | 57  | 67  | 77  | 86  | 96  |                                         |
| 3600 | 47  | 55  | 63  | 71  | 79  |                                         |
| 5200 | 39  | 46  | 53  | 59  | 66  |                                         |
| 5400 | 39  | 45  | 52  | 58  | 65  |                                         |
| 5800 | 37  | 44  | 50  | 56  | 62  |                                         |



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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR, 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, a distance of 5 mm is applied to determine SAR test exclusion.



## 2.3 TEST RESULT

### Turn up Result

| Mode | Turn up Power |
|------|---------------|
| FM   | 8±1dBm        |

### The MPE result of worst mode:

| RF Function | Frequency (MHz) | Max Turn up Power (dBm) | Max Turn up Power (mW) | ANT Gain (dBi) | Estimated SAR | Limit | Result |
|-------------|-----------------|-------------------------|------------------------|----------------|---------------|-------|--------|
| MIC         | 514.275         | 9.00                    | 7.94                   | 0              | 1.139         | 3     | Pass   |

### Note:

1. The estimated SAR  $\leq 3.0$  for 1-g SAR, Separation distance  $\leq 5$ mm, complies with the exemption requirements.

※※※※※END OF THE REPORT※※※※※