



# MPE Report

Report No.:STS2505075H01

Issued for

Shenzhen Monster Creative Technology Co., Ltd.

Room 1602, Building A, Fencheng Zhigu Building, Xixiang  
Street, Bao 'an District, Shenzhen, Guangdong, China

Product Name: PORTABLE SPEAKER

Brand Name: MONSTER

Model Name: MS62122

Series Model(s): N/A

FCC ID: 2AVD2-MS62122

Test Standards: FCC 47CFR §2.1093

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the ShenZhen STS Test Services Co., Ltd.

**TEST REPORT**

**Applicant's Name** .....: Shenzhen Monster Creative Technology Co., Ltd.  
**Address** .....: Room 1602, Building A, Fencheng Zhigu Building, Xixiang Street,  
Bao'an District, Shenzhen, Guangdong, China  
**Manufacturer's Name** .....: Shenzhen Jonter Digital Co., Ltd  
**Address** .....: 3/F, Building4, Jinfo Industrial Park, Hezhou Village, Hangcheng  
Town, Bao'an District, Shenzhen, Guangdong, China

**Product Description**

**Product Name** .....: PORTABLE SPEAKER  
**Brand Name** .....: MONSTER  
**Model Name** .....: MS62122  
**Series Model(s)** .....: N/A

**Test Standards** .....: FCC 47CFR §2.1093  
447498 D04 Interim General RF Exposure Guidance v01

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**Date of Test** .....

**Date of receipt of test item** .....: 13 May 2025  
**Date (s) of performance of tests** .....: 13 May 2025 ~ 28 May 2025  
**Date of Issue** .....: 28 May 2025  
**Test Result** .....: **Pass**

Testing Engineer :

Aaron Bu

(Aaron Bu)

Technical Manager :

Skylar Li

(Skylar Li)

Authorized Signatory :

Bovey Yang

(Bovey Yang)





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**Revision History**

| Rev. | Issue Date  | Report No.    | Effect Page | Contents      |
|------|-------------|---------------|-------------|---------------|
| 00   | 28 May 2025 | STS2505075H01 | ALL         | Initial Issue |
|      |             |               |             |               |



## 1. GENERAL INFORMATION

### 1.1 GENERAL DESCRIPTION OF THE EUT

|                     |                                                                           |                                                                             |
|---------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Product Name        | PORTABLE SPEAKER                                                          |                                                                             |
| Brand Name          | MONSTER                                                                   |                                                                             |
| Model Name          | MS62122                                                                   |                                                                             |
| Series Model(s)     | N/A                                                                       |                                                                             |
| Model Difference    | N/A                                                                       |                                                                             |
| Product Description | The EUT is PORTABLE SPEAKER                                               |                                                                             |
|                     | Operation Frequency:                                                      | 2402 – 2480 MHz                                                             |
|                     | Modulation Type:                                                          | BT BR(1Mbps): GFSK<br>BT EDR(2Mbps): $\pi/4$ -DQPSK<br>BT EDR(3Mbps): 8DPSK |
|                     | Antenna gain:                                                             | 2.499dBi                                                                    |
|                     | Antenna Designation:                                                      | PCB Antenna                                                                 |
| Power Rating        | Input: DC 5V2A                                                            |                                                                             |
| Adapter             | N/A                                                                       |                                                                             |
| Battery             | Rated Voltage: 3.7 V<br>Charge Limit Voltage: 4.2 V<br>Capacity: 1800 mAh |                                                                             |
| Hardware Version    | V03                                                                       |                                                                             |
| Software Version    | V5.4                                                                      |                                                                             |

### 1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01



## 2. FCC 47CFR §2.1093 REQUIREMENT

### 2.1 TEST STANDARDS

Follow the maximum permissible exposure (MPE) limits specified in 447498 D04 Interim General Radio Frequency Exposure Guidelines v01. The gain of the antenna used in the product was extracted from the supplied antenna data sheet and the maximum total power input to the antenna was also measured. Calculate the distance from the product to the MPE limit by the formula.

### 2.2 LIMIT

For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

(A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of Part 1.1307. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

(B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold  $P_{th}$  (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive).  $P_{th}$  is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left( \frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

$d$  = the separation distance (cm);



(C) Or using below table and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least  $\lambda/2\pi$ , where  $\lambda$  is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of  $\lambda/4$  or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

| RF Source frequency (MHz) | Threshold ERP(watts) |
|---------------------------|----------------------|
| 0.3-1.34                  | $1,920 R^2$ .        |
| 1.34-30                   | $3,450 R^2/f^2$ .    |
| 30-300                    | $3.83 R^2$ .         |
| 300-1,500                 | $0.0128 R^2 f$ .     |
| 1,500-100,000             | $19.2 R^2$ .         |



For multiple RF sources: Multiple RF sources are exempt if:

(A) The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(i)(A) of Part 1.1307. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).

(B) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

Where:

a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of Part 1.1307 for P<sub>th</sub>, including existing exempt transmitters and those being added.

b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of Part 1.1307 for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

P<sub>i</sub> = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

P<sub>th,i</sub> = the exemption threshold power (P<sub>th</sub>) according to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i.

ERP<sub>j</sub> = the ERP of fixed, mobile, or portable RF source j.

ERP<sub>th,j</sub> = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least λ/2π according to the applicable formula of paragraph (b)(3)(i)(C) of Part 1.1307.

Evaluated<sub>k</sub> = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

Exposure Limit<sub>k</sub> = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from § 1.1310.



## 2.3 TEST RESULT

Tune up

| RF Function | Tune Up Power (dBm) | Tune Up Power (dBm) |
|-------------|---------------------|---------------------|
| BT          | -1±1                | 0                   |

| RF Function | Frequency (GHz) | Separation distance (cm) | Tune Up Power (dBm) | ANT Gain (dBi) | EIRP (dBm) | ERP (dBm) | ERP (mW) | Limit (mW) | Ratio | Result |
|-------------|-----------------|--------------------------|---------------------|----------------|------------|-----------|----------|------------|-------|--------|
| BT          | 2.48            | 0.5                      | 0                   | 2.499          | 2.499      | 0.35      | 1.084    | 2.717      | 0.399 | Pass   |

Note: 1. The Maximum power is less than the limit, complies with the exemption requirements.

2. ERP = EIRP - 2.15

※※※※※END OF THE REPORT※※※※※