# MPE Report

Report No.: STS2601333H01

Issued for

Shanghai ABXY Tech Co., Ltd.

Room 103, Building 1, 245 Jiachuan Road,Xuhui District, Shanghai,China

| | |
|---|---|
| Product Name: | Game Controller |
| Brand Name: | NA |
| Model Name: | S9V |
| Series Model(s): | S4,S5,S6,S7,S8,S8V,S9,SV |
| FCC ID: | 2BBMD-S9V |
| 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** ..... : Shanghai ABXY Tech Co., Ltd.

Address ..... : Room 103, Building 1, 245 Jiachuan Road,Xuhui District, Shanghai,China

**Manufacturer's Name** ..... : Shanghai ABXY Tech Co., Ltd.

Address ..... : Room 103, Building 1, 245 Jiachuan Road,Xuhui District, Shanghai,China

**Product Description**

Product Name ..... : Game Controller

Brand Name ..... : NA

Model Name ..... : S9V

Series Model(s) ..... : S4,S5,S6,S7,S8,S8V,S9,SV

**Test Standards** ..... : FCC 47CFR §2.1093
447498 D01 Interim General RF Exposure Guidance v06

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

Date of receipt of test item ..... : 2026-01-04

Date (s) of performance of tests ..... : 2026-01-04 to 2026-03-25

Date of Issue ..... : 2026-03-25

Test Result ..... : **Pass**

Testing Engineer : Aaron Bu

(Aaron Bu)

Technical Manager : Skylar. Li

(Skylar Li)

Authorized Signatory : Bovey Yang

(Bovey Yang)

SHENZHEN STS TEST SERVICES CO., LTD. TESTING APPROVAL

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## Revision History

| Rev. | Issue Date | Report No. | Effect Page | Contents |
|---|---|---|---|---|
| 00 | 2026-03-25 | STS2601333H01 | ALL | Initial Issue |
| | | | | |

# 1. GENERAL INFORMATION

## 1.1 GENERAL DESCRIPTION OF THE EUT

| | |
|---|---|
| Product Name | Game Controller |
| Brand Name | NA |
| Model Name | S9V |
| Series Model(s) | S4,S5,S6,S7,S8,S8V,S9,SV |
| Model Difference | The following models of units we produce are identical in electrical, mechanical and physical structure; The difference lies in appearance color, and model name, we finally have S9V as test model. |
| Product Description | The EUT is Game Controller |

| | |
|---|---|
| Bluetooth | Frequency:2402 – 2480 MHz<br>Modulation: GFSK(1Mbps), π/4-DQPSK(2Mbps), 8DPSK(3Mbps) |
| Bluetooth Configuration | BR+EDR |
| Antenna Type | Internal antenna |
| Antenna Gain(dBi) | 3dBi |
| Operation Frequency: | 2402~2480 MHz |
| Modulation Type: | GFSK |
| Radio Technology: | BLE |
| Bluetooth Configuration: | BLE(Support 1M/2M) |
| Number Of Channel: | 40 |
| Antenna Type: | Internal antenna |
| Antenna Gain (dBi) | 3dBi |

| | |
|---|---|
| Power Rating | Input: DC 5V 1A |
| Adapter | N/A |
| Battery | N/A |
| Hardware Version | N/A |
| Software Version | N/A |

## 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

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 Exclusion 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 Exclusion 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 ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,where f(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 ≤ 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

Maximum measured transmitter power.

Worst Case

| Mode | frequency | Maximum Output Power | Tune up tolerance | Max Tune up |
|---|---|---|---|---|
| | GHz | dBm | dBm | dBm |
| 8DPSK (BT) | 2.480 | -2.46 | -3±1 | -2 |
| BLE 2M | 2.480 | -1.85 | -2±1 | -1 |

Evaluation Result

| Mode | Frequency | Antenna Distance | RF output power including tune up (dBm) | | SAR Test Exclusion Threshold | SAR Test Exclusion | Estimated SAR |
|---|---|---|---|---|---|---|---|
| | GHz | mm | dBm | mw | | | |
| 8DPSK (BT) | 2.480 | 5 | -2 | 0.63 | 0.20 | Yes | / |
| BLE 2M | 2.480 | 5 | -1 | 0.79 | 0.25 | Yes | / |

**Multiple transmission:**

BT+BLE =0.20+0.25=0.45＜3

Note:

1. Remark: The worst case gain of the antenna is 3dBi.
2. Threshold at which no SAR required is 0.45≤ 3.0 for 1-g SAR, Separation distance ≤ 5mm.

※※※※※END OF THE REPORT※※※※※