



## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250100024203

Page: 1 of 12

# RF EXPOSURE EVALUATION REPORT

**Application No.:** SZCR2501000242AT  
**Applicant:** Acsys International Limited  
**Address of Applicant:** 22nd Floor, Tai Yua Building, 181 Johnston Road, Wanchai, Hong Kong  
**Manufacturer:** Gusuo Intelligence Limited (Shenzhen)  
**Address of Manufacturer:** D605-3, Silver Star Tech Bldg., 1301 Guanguang Rd., Xinlan Community, Guanlan Street, Longhua District, Shenzhen, Guangdong, China  
**Equipment Under Test (EUT):**  
**EUT Name:** PL5 PADLOCK – BLUETOOTH  
**Model No.:** PL5BLE  
**Trade Mark:** ACSYS  
**FCC ID:** 2AR93-116P2503  
**Standard(s) :** FCC Rules 47 CFR §2.1093  
KDB 447498 D04 interim General RF Exposure Guidance v01  
**Date of Receipt:** 2025-01-15  
**Date of Evaluation:** 2025-01-18 to 2025-05-07  
**Date of Issue:** 2025-05-09

**Evaluation Result:**

**Pass\***

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

Kenx. Xu

Kenx Xu  
EMC Laboratory Manager



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| Revision Record |         |            |          |          |
|-----------------|---------|------------|----------|----------|
| Version         | Chapter | Date       | Modifier | Remark   |
| 01              |         | 2025-05-12 |          | Original |
|                 |         |            |          |          |
|                 |         |            |          |          |

|                          |  |                            |  |  |
|--------------------------|--|----------------------------|--|--|
| Authorized for issue by: |  |                            |  |  |
|                          |  | Gebin Sun                  |  |  |
|                          |  | Gebin Sun/Project Engineer |  |  |
|                          |  | Eric Fu                    |  |  |
|                          |  | Eric Fu/Reviewer           |  |  |

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## 3 General Information

### 3.1 General Description of E.U.T.

|               |   |
|---------------|---|
| Product Type: | <input checked="" type="checkbox"/> Portable device |
|               | <input type="checkbox"/> Mobile device              |
|               | <input type="checkbox"/> Fixed device               |

### 3.2 Details of E.U.T.

|                      |   |
|----------------------|---|
| Power supply:        | 3V DC(3V x 1 CR2 battery )<br>Input: DC5V via USB Type C port |
| Operation Frequency: | 2402MHz to 2480MHz  |
| Modulation Type:     | GFSK  |
| Number of Channels:  | 40  |
| Channel Spacing:     | 2MHz  |
| Data Rate:           | Support 1Mb/s   |
| Antenna Type:        | SMD Antenna   |
| Antenna Gain:        | 2.13dBi   |

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

### 3.3 Separation Distance

|   |     |
|---|-----|
| Minimum test separation distance:   | 5mm |
| Remark: This minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander. |     |

## 3.4 Test Location

All tests were performed at:

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Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

## 3.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

### • A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

### • VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

### • FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

### • Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

## 3.6 Deviation from Standards

None

## 3.7 Abnormalities from Standard Conditions

None



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## 4 FCC Radiofrequency radiation exposure limits

Test exemptions apply for devices used in general population/uncontrolled exposure environments, according to the SAR-based, or MPE-based exemption thresholds.

### 4.1 Blanket 1 mW Blanket Exemption

The 1 mW Blanket Exemption of §1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

The 1-mW blanket exemption applies at separation distances less than 0.5 cm, including where there is no separation. This exemption shall not be used in conjunction with other exemption criteria other than those for multiple RF sources in paragraph §1.1307(b)(3)(ii)(A).

The 1-mW exemption is independent of service type and covers the full range of 100 kHz to 100 GHz, but it shall not be used in conjunction with other exemption criteria or in devices with higher-power transmitters operating in the same time-averaging period. Exposure from such higher-power transmitters would invalidate the underlying assumption that exposure from the lower-power transmitter is the only contributor to SAR in the relevant volume of tissue.

### 4.2 MPE-based Exemption

General frequency and separation-distance dependent MPE-based effective radiated power (ERP) thresholds are in Table B.1 [Table 1 of §1.1307(b)(1)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

**Table B.1—Thresholds For Single RF Sources Subject to Routine Environmental Evaluation**

| RF Source Frequency  |   |           | Minimum Distance   |   |                    | Threshold ERP                        |
|--|---|-----------|--------------------|---|--------------------|--------------------------------------|
| $f_L$ MHz  |   | $f_H$ MHz | $\lambda_L / 2\pi$ |   | $\lambda_H / 2\pi$ | W                                    |
| 0.3  | — | 1.34      | 159 m              | — | 35.6 m             | 1,920 R <sup>2</sup>                 |
| 1.34   | — | 30        | 35.6 m             | — | 1.6 m              | 3,450 R <sup>2</sup> /f <sup>2</sup> |
| 30   | — | 300       | 1.6 m              | — | 159 mm             | 3.83 R <sup>2</sup>                  |
| 300  | — | 1,500     | 159 mm             | — | 31.8 mm            | 0.0128 R <sup>2</sup> f              |
| 1,500  | — | 100,000   | 31.8 mm            | — | 0.5 mm             | 19.2R <sup>2</sup>                   |
| Subscripts L and H are low and high; $\lambda$ is wavelength.          |   |           |                    |   |                    |                                      |
| From §1.1307(b)(3)(i)(C), modified by adding Minimum Distance columns. |   |           |                    |   |                    |                                      |

The table applies to any RF source (i.e. single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least  $\lambda/2\pi$ . The thresholds are

based on the general population MPE limits with a single perfect reflection, outside of the reactive near-field, and in the main beam of the radiator.

For mobile devices that are not exempt per Table B.1 [Table 1 of §1.1307(b)(1)(i)(C)] at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in §1.1310 is necessary if the ERP of the device is greater than  $ERP_{20\text{cm}}$  in Formula (B.1) [repeated from §2.1091(c)(1); also in §1.1307(b)(1)(i)(B)].

$$P_{\text{th}} (\text{mW}) = ERP_{20\text{cm}} (\text{mW}) = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i.e., without consideration of ERP only 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.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

| Limit calculation |                |                             |                  |
|-------------------|----------------|-----------------------------|------------------|
| Frequency range   | Frequency(MHz) | $R(\lambda/2\pi)(\text{m})$ | Threshold ERP(W) |
| 300~1500MHz       | <b>915</b>     | 0.0522                      | 0.032            |
| 1500~100000MHz    | <b>2480</b>    | 0.0193                      | 0.007            |

### 4.3 SAR-based Exemption

SAR-based thresholds are derived based on frequency, power, and separation distance of the RF source. The formula defines the thresholds in general for either available maximum time-averaged power or maximum time-averaged ERP, whichever is greater.

If the ERP of a device is not easily determined, such as for a portable device with a small form factor, the applicant may use the available maximum time-averaged power exclusively if the device antenna or radiating structure does not exceed an electrical length of  $\lambda/4$ .

As for devices with antennas of length greater than  $\lambda/4$  where the gain is not well defined, but always less than that of a half-wave dipole (length  $\lambda/2$ ), the available maximum time-averaged power generated by the device may be used in place of the maximum time-averaged ERP, where that value is not known.



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The separation distance is the smallest distance from any part of the antenna or radiating structure for all persons, during operation at the applicable ERP. In the case of mobile or portable devices, the separation distance is from the outer housing of the device where it is closest to the antenna.



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The SAR-based exemption formula of §1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold  $P_{th}$  (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive).  $P_{th}$  is given by Formula (B.2).

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}}(d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B.2})$$

where

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

and  $f$  is in GHz,  $d$  is the separation distance (cm), and  $ERP_{20 \text{ cm}}$  is per Formula (B.1).



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Example values shown in Table B.2 are for illustration only.

**Table B.2—Example Power Thresholds (mW)**

| Frequency<br>(MHz) | Distance(mm) |    |    |     |     |     |     |     |     |     |
|--------------------|--------------|----|----|-----|-----|-----|-----|-----|-----|-----|
|                    | 5            | 10 | 15 | 20  | 25  | 30  | 35  | 40  | 45  | 50  |
| 300                | 39           | 65 | 88 | 110 | 129 | 148 | 166 | 184 | 201 | 217 |
| 450                | 22           | 44 | 67 | 89  | 112 | 135 | 158 | 180 | 203 | 226 |
| 835                | 9            | 25 | 44 | 66  | 90  | 116 | 145 | 175 | 207 | 240 |
| 1900               | 3            | 12 | 26 | 44  | 66  | 92  | 122 | 157 | 195 | 236 |
| 2450               | 3            | 10 | 22 | 38  | 59  | 83  | 111 | 143 | 179 | 219 |
| 3600               | 2            | 8  | 18 | 32  | 49  | 71  | 96  | 125 | 158 | 195 |
| 5800               | 1            | 6  | 14 | 25  | 40  | 58  | 80  | 106 | 136 | 169 |

| Limit calculation    |                |       |              |              |
|----------------------|----------------|-------|--------------|--------------|
| Frequency range(GHz) | Frequency(GHz) | X     | Distance(cm) | Pth (mW)     |
| 0.3~1.5              | <b>0.915</b>   | 1.474 | <b>0.5</b>   | <b>8.133</b> |
| 1.5~6                | <b>2.48</b>    | 1.905 | <b>0.5</b>   | <b>2.717</b> |

## 5 Measurement and Calculation

### 5.1 Maximum transmit power

#### For BLE:

The Power Data is based on the RF Test Report SZCR250100024202.

Antenna Gain: 2.13dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

| Frequency (MHz) | The Max. Conducted power [dBm] | The Max. EIRP [dBm] | The Max. EIRP (mW) |
|-----------------|--------------------------------|---------------------|--------------------|
| 2402            | -2.47                          | -0.34               | 0.92               |

Note: Refer to report No. SZCR250100024202 for EUT test Max Power Value.

### 5.2 RF Exposure Calculation

**Remark:** we used the maximum power between the conducted power and ERP/EIRP to perform RF exposure exemption evaluation.

#### For BLE:

The Max EIRP is 0.92mW. The best case gain of the antenna is 2.13dBi.

|                                     | Evaluation method               | Exempt Limit(mW) | Verdict |
|-------------------------------------|---------------------------------|------------------|---------|
| <input type="checkbox"/>            | Blanket 1 mW Blanket Exemption  | 1mW              | N/A     |
| <input type="checkbox"/>            | MPE-based Exemption(ERP)        | 7mW(ERP)         | N/A     |
| <input checked="" type="checkbox"/> | SAR-based Exemption( $P_{th}$ ) | 2.7              | Yes     |

So, the device is to qualify for SAR test exemption, the exemption report is in lieu of the SAR report.

## 6 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2501000242AT

-End of the Report-



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