



## SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250300020904  
Rev.: 01  
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# TEST REPORT

**Application No.:** SUCR2503000209TL  
**Applicant:** Gosuncn Technology Group Co., Ltd.  
**Address of Applicant:** 6F, 2819 KaiChuang Blvd., Science Town, Huangpu District, Guangzhou City, Guangdong, China.  
**Manufacturer:** Gosuncn Technology Group Co., Ltd.  
**Address of Manufacturer:** 6F, 2819 KaiChuang Blvd., Science Town, Huangpu District, Guangzhou City, Guangdong, China.  
**EUT Description:** Tracker  
**Model No.:** GT117U  
**Trade Mark:** Gosuncn  
**Contain FCC ID:** 2APNR-GT117U  
**Standards:** 47 CFR Part 2.1091  
FCC KDB 447498 D01 v06  
**Date of Receipt:** April 19, 2025  
**Date of Issue:** April 19, 2025

|                     |              |
|---------------------|--------------|
| <b>Test Result:</b> | <b>PASS*</b> |
|---------------------|--------------|

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

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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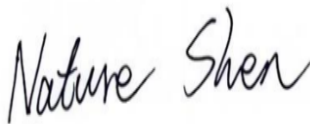



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Version

| Revision Record |             |                |        |
|-----------------|-------------|----------------|--------|
| Version         | Description | Date           | Remark |
| 00              | Original    | April 19, 2025 | /      |
|                 |             |                |        |
|                 |             |                |        |

|                          |  |   |  |  |
|--------------------------|--|---|--|--|
| Authorized for issue by: |  |   |  |  |
| Tested By                |  |    |  |  |
|                          |  | <div>Nature Shen / Project Manager</div>  |  |  |
| Approved By              |  |  |  |  |
|                          |  | <div>Cloud Peng/Technical Manager</div>   |  |  |



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### 1 General Information

#### 1.1 General Description of EUT

|  |  |         |                     |         |
|--|--|---------|---------------------|---------|
| Hardware Version:  | GT117_HW_V1.0  |         |                     |         |
| Software Version:  | BG95M1LAR02A04   |         |                     |         |
| Antenna Type:  | <input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated                    |         |                     |         |
| Antenna Gain:  | LTE Cat-M1 Band 2:   | 1.88dBi | LTE Cat-M1 Band 4:  | 1.83dBi |
|  | LTE Cat-M1 Band 5:   | 2.47dBi | LTE Cat-M1 Band 12: | 0.79dBi |
|  | LTE Cat-M1 Band 13:  | 0.79dBi | LTE Cat-M1 Band 25: | 1.88dBi |
|  | LTE Cat-M1 Band 26:  | 2.47dBi | LTE Cat-M1 Band 66: | 1.83dBi |
|  | BLE:   | 2.63dBi |                     |         |
|  | Note:<br>The antenna gain are derived from the gain information report provided by the manufacturer. |         |                     |         |
| Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion. |  |         |                     |         |
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### 1.2 Test Facility

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

- **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

- **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



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## 2 RF Exposure Evaluation

### 2.1 RF Exposure Compliance Requirement

#### 2.1.1 Limits

| Frequency range<br>(MHz)                                       | Electric field strength<br>(V/m) | Magnetic field strength<br>(A/m) | Power density<br>(mW/cm <sup>2</sup> ) | Averaging time<br>(minutes) |
|--|----------------------------------|----------------------------------|--|-----------------------------|
| <b>(A) Limits for Occupational/Controlled Exposures</b>        |                                  |                                  |  |                             |
| 0.3-3.0  | 614                              | 1.63                             | *(100)                                 | 6                           |
| 3.0-30   | 1842/f                           | 4.89/f                           | *(900/f <sup>2</sup> )                 | 6                           |
| 30-300   | 61.4                             | 0.163                            | 1.0                                    | 6                           |
| 300-1500   | /                                | /                                | f/300                                  | 6                           |
| 1500-100,000   | /                                | /                                | 5                                      | 6                           |
| <b>(B) Limits for General Population/Uncontrolled Exposure</b> |                                  |                                  |  |                             |
| 0.3-1.34   | 614                              | 1.63                             | *(100)                                 | 30                          |
| 1.34-30  | 824/f                            | 2.19/f                           | *(180/f <sup>2</sup> )                 | 30                          |
| 30-300   | 27.5                             | 0.073                            | 0.2                                    | 30                          |
| 300-1500   | /                                | /                                | f/1500                                 | 30                          |
| 1500-100,000   | /                                | /                                | 1.0                                    | 30                          |

F=frequency in MHz  
 \*=Plane-wave equivalent power density  
 RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

Friis Formula

Friis transmission formula:  $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = output power to antenna in mW

$G$  = gain of antenna in linear scale

$\pi$  = 3.1416

$R$  = distance between observation point and center of the radiator in cm

$P_d$  is the limit of MPE, 1 mW/cm<sup>2</sup>. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance  $r$  where the MPE limit is reached.



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### 2.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually

### 2.1.3 EUT RF Exposure Evaluation

Output Power Into Antenna & RF Exposure Evaluation Distance:

This confirmed that the device comply with MPE limit.

| Band                                    | Frequency (MHz) | Conducted Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Distance R (cm) | Power Density (mW/cm <sup>2</sup> ) | Limit (mW/cm <sup>2</sup> ) |
|---|-----------------|-----------------------|--------------------|------------|-----------------|-------------------------------------|-----------------------------|
| LTE Cat-M1 Band 2                       | 1880            | 25                    | 1.88               | 26.88      | 20.00           | 0.097                               | 1.00                        |
| LTE Cat-M1 Band 4                       | 1732.5          | 25                    | 1.83               | 26.83      | 20.00           | 0.096                               | 1.00                        |
| LTE Cat-M1 Band 5                       | 836.5           | 25                    | 2.47               | 27.47      | 20.00           | 0.111                               | 0.56                        |
| LTE Cat-M1 Band 12                      | 707.5           | 25                    | 0.79               | 25.79      | 20.00           | 0.075                               | 0.47                        |
| LTE Cat-M1 Band 13                      | 782             | 25                    | 0.79               | 25.79      | 20.00           | 0.075                               | 0.52                        |
| LTE Cat-M1 Band 25                      | 1882.5          | 25                    | 1.88               | 26.88      | 20.00           | 0.097                               | 1.00                        |
| LTE Cat-M1 Band 26<br>(814 to 824 MHz ) | 819             | 25                    | 2.47               | 27.47      | 20.00           | 0.111                               | 0.55                        |
| LTE Cat-M1 Band 26<br>(824 to 849 MHz ) | 836.5           | 25                    | 2.47               | 27.47      | 20.00           | 0.111                               | 0.56                        |
| LTE Cat-M1 Band 66                      | 1745            | 25                    | 1.83               | 26.83      | 20.00           | 0.096                               | 1.00                        |
| BLE                                     | 2440            | 0                     | 2.73               | 2.73       | 20.00           | 0.000                               | 1.00                        |

---End of Report---