

SAR Exemption Evaluation

| | |
|-------------------|--|
| Applicant | Shanghai Xin an Information and Technology Co. Ltd. |
| FCC ID | 2BHQ6-MTAG |
| Product | Mtag |
| Brand | Mtag |
| Model | Mtag |
| Report No. | R2406A0747-S1 |
| Issue Date | August 9, 2024 |

Prepared by: Wei Fangying

Approved by: Fan Guangchang

Eurofins TA Technology (Shanghai) Co., Ltd.

Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China

TEL: +86-021-50791141/2/3

FAX: +86-021-50791141/2/3-8000

Table of Contents

| | | |
|-----|--|---|
| 1 | Test Laboratory | 3 |
| 1.1 | Notes of the Test Report..... | 3 |
| 1.2 | Test Facility..... | 3 |
| 1.3 | Testing Location..... | 3 |
| 1.4 | Laboratory Environment | 3 |
| 2 | Description of Equipment Under Test | 4 |
| 3 | Test Specification, Methods and Procedures | 6 |
| 4 | Output Power | 7 |
| 5 | Standalone SAR Test Exclusion Considerations | 8 |
| | ANNEX A: The EUT Appearance | 9 |

1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **Eurofins TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2 Test Facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

1.3 Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.
Address: Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China
City: Shanghai
Post code: 201201
Country: P. R. China
Contact: Fan Guangchang
Telephone: +86-021-50791141/2/3
Fax: +86-021-50791141/2/3-8000
Website: <https://www.eurofins.com/electrical-and-electronics>
E-mail: Jack.Fan@cpt.eurofinscn.com

1.4 Laboratory Environment

| | |
|---|--------------------------|
| Temperature | Min. = 18°C, Max. = 25°C |
| Relative humidity | Min. = 20%, Max. = 80% |
| Ground system resistance | < 0.5 Ω |
| Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards. | |

2 Description of Equipment Under Test

Client Information

| | |
|----------------------|--|
| Applicant | Shanghai Xin an Information and Technology Co. Ltd. |
| Applicant address | 1st Floor, Building 8, Lane 568, Tanglu Road, Pudong New Area, Shanghai, China |
| Manufacturer | Shanghai Xin an Information and Technology Co. Ltd. |
| Manufacturer address | 1st Floor, Building 8, Lane 568, Tanglu Road, Pudong New Area, Shanghai, China |

General Technologies

| | |
|--|-------------------------------------|
| Application Purpose | Original Grant |
| EUT Stage | Identical Prototype |
| Model | Mtag |
| Lab internal SN | R2309A1013/S02 |
| HW Version | HW 1.0 |
| SW Version | 1.2.0 |
| Antenna Type | Internal Antenna |
| Date of Testing | October 11, 2023 ~ October 17, 2023 |
| Date of Sample Received | October 11, 2023 |
| Note: The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant. | |

Wireless Technology and Frequency Range

| Wireless Technology | Modulation | Operating Mode | Tx (MHz) |
|---------------------|-------------|----------------|------------|
| Bluetooth LE | Version 5.1 | | 2402 ~2480 |

3 Test Specification, Methods and Procedures

Reference Standards

KDB 447498 D01 General RF Exposure Guidance v06

4 Output Power

| BLE | Output Power(dBm) | | |
|------|--------------------------|----------------|----------------|
| | Channel/ Frequency (MHz) | | |
| | Ch 0/2402 MHz | Ch 19/2440 MHz | Ch 39/2480 MHz |
| GFSK | 3.80 | 4.23 | 4.05 |

5 Standalone SAR Test Exclusion Considerations

Per KDB 447498 D01, 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:

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

- $f(\text{GHz})$ 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

Per KDB 447498 D01, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

| Band | Configuration | Frequency (MHz) | Distance (mm) | Output Power (dBm) | Ratio | SAR test exclusion thresholds | Evaluation |
|-----------|---------------|-----------------|---------------|--------------------|-------|-------------------------------|------------|
| Bluetooth | Body-worn | 2480 | 10 | 4.23 | 0.42 | 3 | No |
| | Extremity SAR | 2480 | 5 | 4.23 | 0.83 | 7.5 | No |

Note: Based on SAR test exclusion, all values meet the SAR test exclusion thresholds and are exempt from routine evaluation.

ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

*******END OF REPORT *******