

| RF MPE REPC |
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Report No.: 20230717G07547X-W4

Product Name: UAM025

Model No.: UAM025

FCC ID: 2A68EJX-UAM025

Applicant: Shenzhen Uascent Technology Co.,Ltd

Address: 7th Floor, Building A2, Chuangzhiyuncheng, Liuxian Avenue, Xili Community, Xili Street, Nanshan District, Shenzhen

Dates of Testing: 07/06/2023 - 07/17/2023

Issued by: CCIC Southern Testing Co., Ltd.

Electronic Testing Building, No. 43 Shahe Road, Xili Street, Lab Location:

Nanshan District, Shenzhen, Guangdong, China.

Tel: 86 755 26627338 Fax: 86 755 26627238

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Test Report Product: **UAM025** Brand Name: Uascent Trade Name Uascent Applicant.....: Shenzhen Uascent Technology Co.,Ltd 7th Floor, Building A2, Chuangzhiyuncheng, Liuxian Applicant Address.....: Avenue, Xili Community, Xili Street, Nanshan District, Shenzhen Manufacturer shengXianZhiKongCo.,Ltd Room 804, one of No.9 Yucheng Road, Chang'an Town, Manufacturer Address: Dongguan City, Guangdong Province 47 CFR Part 2,1091 Test Standards: Test Result: Pass kim Li Tested by 2023.07.21 Kim Li, Test Engineer Chris مرو ا Reviewed by: 2023.07.21 Chris You, Senior Engineer ametan Approved by: 2023.07.21 Yang Fan, Manager



Table of Contents

| 1. (| SENERAL INFORMATION | 5 |
|-------------------------------------|---|----|
| 1.1. | EUT Description | 5 |
| 1.2. | EUT Description | 6 |
| 1.3. | Laboratory Facilities | 6 |
| 1.4. | Laboratory Location | 6 |
| | | |
| 2. 7 | ECHNICAL REQUIREMENTS SPECIFICATION IN CFR TITLE 47 PART 2.1091 | 7 |
| | EXPOSURE Limits | |
| 2.1. | - | .7 |
| 2.1.2.2. | Exposure Limits | .7 |



| Change History | | | | | |
|----------------|-------------------|---------------|--|--|--|
| Issue | Reason for change | | | | |
| 1.0 2023.07.21 | | First edition | | | |
| | | | | | |



1. GENERAL INFORMATION

1.1. EUT Description

| Product Name | UAM025 | UAM025 | | | |
|---------------------------------|------------------------|-------------------------|--|--|--|
| Model No. | UAM025 | JAM025 | | | |
| Hardware Version | V1.0 | /1.0 | | | |
| Software Version | V1.0.6 | | | | |
| EUT supports Radios application | 2.4G WIFI/E | 2.4G WIFI/BLE | | | |
| | 2.4G WIFI | I 2.412GHz ~ 2.462GHz | | | |
| Frequency Range(Tx) | BLE | 2.402GHz ~ 2.480GHz | | | |
| | 2.4G WIFI | 802.11b/g/n-HT20: 20MHz | | | |
| Modulation Type | 2.40 ₩ 111 | 802.11n-HT40: 40MHz | | | |
| | BLE | GFSK | | | |
| Antenna gain | 2.4G WIFI | 3.0dBi | | | |
| | BLE 3.0dBi | | | | |
| Antenna Type | Wound Monopole Antenna | | | | |



1.2. EUT Description

EUT has been tested according to the following standards.

| No. | Identity | Document Title | | | |
|-----------------|--------------------------|---|--|--|--|
| 1 | 47 CFR Part 1 | Practice and Procedure | | | |
| 2 47 CFR Part 2 | | Frequency Allocations and Radio Treaty Matters; General | | | |
| Z | 47 CFR Part 2 | Rules and Regulations | | | |
| 2 | KDB 447498 D01 General | RF Exposure Procedures and Equipment Authorization | | | |
| 3 | RF Exposure Guidance v06 | Policies for Mobile and Portable Devices | | | |
| 4 | OET Bulletin 65 | Evaluating Compliance with FCC Guidelines for Human | | | |
| 4 | Edition 97-01 | Exposure to Radiofrequency Electromagnetic Fields | | | |

1.3. Laboratory Facilities

FCC-Registration No.: 406086

CCIC Southern Testing Co., Ltd EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Designation Number: CN1283, valid time is until Sep. 30, 2023.

ISED Registration: 11185A-1

CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A-1 on Aug. 04, 2016, valid time is until Sep. 30, 2023.

A2LA Code: 5721.01

CCIC-SET is a third party testing organization accredited by A2LA according to ISO/IEC 17025. The accreditation certificate number is 5721.01.

1.4. Laboratory Location

| Company Name: | CCIC Southern Testing Co., Ltd. | |
|---------------|--|---------|
| Address: | Electronic Testing Building, No. 43 Shahe Road, Xili Street, District, Shenzhen, Guangdong, China | Nanshan |



2. Technical Requirements Specification in CFR Title 47 Part 2.1091

2.1. Exposure Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b).

| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm2) | Averaging Time (minutes) | | | | | |
|--|---|-------------------------------------|---------------------------|-----------------------------|--|--|--|--|--|
| | (i) Limits for Occupational/Controlled Exposure | | | | | | | | |
| 0.3-3.0 | 614 | 1.63 | *(100) | < 6 | | | | | |
| 3.0-30 | 1824/f | 4.89/f | $*(900/f^2)$ | < 6 | | | | | |
| 30-300 | 61.4 | 0.163 | 1.0 | < 6 | | | | | |
| 300-1500 | / | / | f/300 | < 6 | | | | | |
| 1500-100,000 | / | / | 5 | < 6 | | | | | |
| | (ii) Limits for Ger | neral Population/Unco | ntrolled Exposure | | | | | | |
| 0.3-1.34 | 614 | 1.63 | *(100) | < 30 | | | | | |
| 1.34-30 | 824/f | 2.19/f | *(180/f ²) | < 30 | | | | | |
| 30-300 | 27.5 | 0.073 | 0.2 | < 30 | | | | | |
| 300-1500 | / | / | f/1500 | < 30 | | | | | |
| 1500-100,000 | / | / | 1.0 | < 30 | | | | | |
| Note: f = frequency in MHz. * = Plane-wave equivalent power density. | | | | | | | | | |

Table 1 to §1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

2.2. Predication of MPE limit at a given distance

Refer to formulas on page 19 of OET Bulletin 65, Edition 97-01.

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

G = numeric gain of the antenna in the direction of interest relative to an isotropic radiator

 \mathbf{R} = distance to the centre of radiation of the antenna (appropriate units, e.g., cm)



2.3. Evaluation Results

Worst-Case mode Conducted Output Power Results for BLE

| Band | Mode | Frequency (MHz) | | | Max Tune up power (mW) |
|------|------|--------------------|-------|-----|---------------------------|
| BLE | GFSK | 2402 | 6.875 | 6±1 | 5.01 |

Worst-Case mode Conducted Output Power Results for 2.4G WLAN

| Band | Mode | Frequency (MHz) | Maximum Output Power (dBm) | Max Tune up power (dBm) | Max Tune up power (mW) |
|-----------|-----------------------|--------------------|-------------------------------|----------------------------|---------------------------|
| 2.4G WIFI | .4G WIFI 802.11b 2462 | | 15.74 | 15 ± 1 | 39.81 |

Calculation results: Worst-Case mode

| Band | Antenna Gain (dBi) | Antenna Gain (numeric) | Distance (cm) | Result (mW/cm2) | Power Density (mW/cm2) | Ratio |
|-----------|-----------------------|---------------------------|------------------|--------------------|------------------------------|-------|
| BLE | 3.0 | 2.00 | 20 | 0.001 | 1.0 | / |
| 2.4G WIFI | 3.0 | 2.00 | 20 | 0.016 | 1.0 | / |

2.4. Conclusion

According to the KDB 447498 D01 General RF Exposure Guidance v06 section 7.2 determine the device is exclusion from SAR test.

** END OF REPORT **