

<b>RF MPE REPC</b>
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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



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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 <sup>2</sup> )	< 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/cm<sup>2</sup>)

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	$15 \pm 1$	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 \*\*