



RF MPE REPORT

Report No.: 20230717G07549X-W4

Product Name: UAM026

Model No.: UAM026

FCC ID: 2A68EJX-UAM026

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.

Lab Location: Electronic Testing Building, No. 43 Shahe Road, Xili Street, Nanshan District, Shenzhen, Guangdong, China.

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Test Report

Product.....: UAM026
Brand Name.....: Uascent
Trade Name: Uascent
Applicant.....: Shenzhen Uascent Technology Co.,Ltd
Applicant Address.....: 7th Floor, Building A2, Chuangzhiyuncheng, Liuxian Avenue, Xili Community, Xili Street, Nanshan District, Shenzhen
Manufacturer.....: shengXianZhiKongCo.,Ltd
Manufacturer Address.....: Room 804, one of No.9 Yucheng Road, Chang'an Town, Dongguan City, Guangdong Province
Test Standards.....: 47 CFR Part 2.1091
Test Result.....: Pass

Tested by: Kim Li 2023.07.21
 Kim Li, Test Engineer

Reviewed by.....: Chris You 2023.07.21
 Chris You, Senior Engineer

Approved by.....: Yang Fan 2023.07.21
 Yang Fan, Manager



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Change History		
Issue	Date	Reason for change
1.0	2023.07.21	First edition



1. GENERAL INFORMATION

1.1. EUT Description

Product Name	UAM026	
Model No.	UAM026	
Hardware Version	V1.0	
Software Version	V1.0.6	
EUT supports Radios application	2.4G WIFI/BLE	
Frequency Range(Tx)	2.4G WIFI	2.412GHz ~ 2.462GHz
	BLE	2.402GHz ~ 2.480GHz
Modulation Type	2.4G WIFI	802.11b/g/n-HT20: 20MHz 802.11n-HT40: 40MHz
	BLE	GFSK
Antenna gain	2.4G WIFI	-1.3dBi
	BLE	-1.3dBi
Antenna Type	PCB 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 Rules and Regulations
3	KDB 447498 D01 General RF Exposure Guidance v06	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices
4	OET Bulletin 65 Edition 97-01	Evaluating Compliance with FCC Guidelines for Human 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, Nanshan District, Shenzhen, Guangdong, China

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).

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

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	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 General Population/Uncontrolled 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.				

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

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)	Maximum Output Power (dBm)	Max Tune up power (dBm)	Max Tune up power (mW)
BLE	GFSK	2402	6.106	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	802.11b	2412	13.74	13 ± 1	25.12

Calculation results: Worst-Case mode

Band	Antenna Gain (dBi)	Antenna Gain (numeric)	Distance (cm)	Result (mW/cm ²)	Power Density (mW/cm ²)	Ratio
BLE	-1.3	0.74	20	0.001	1.0	/
2.4G WIFI	-1.3	0.74	20	0.004	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 ****