

## RF EXPOSURE Test Report

**Report No.:** MTi230621033-32E2

**Date of issue:** 2024-03-14

Applicant: Shenzhen Fuwit Technology Co.,Ltd

**Product:** Positioning base station

Model(s): FU-GA25-P2

FCC ID: 2A9GZ-FUGA25P2

Shenzhen Microtest Co., Ltd. http://www.mtitest.com

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Test Result Certification				
Applicant:	Shenzhen Fuwit Technology Co.,Ltd			
Address:	Room 3613, Changping Business Building, No. 99, Redflower Road, Futian Free Trade Zone, Shenzhen			
Manufacturer:	Shenzhen Fuwit Technology Co.,Ltd			
Address:	Room 3613, Changping Business Building, No. 99, Redflower Road, Futian Free Trade Zone, Shenzhen			
Product description	1			
Product name:	Positioning base station			
Trademark:	FUWIT			
Model name:	FU-GA25-P2			
Serial Model:	N/A			
Standards:	N/A			
Test procedure:	KDB 447498 D01 v06			
Date of Test	•			
Date of test:	2024-02-29 to 2024-03-14			
Test result:	Pass			

Test Engineer	:	letter.lan.
		(Letter Lan)
Reviewed By:	:	leon chan
		(Leon Chen)
Approved By:	:	tom Xue
		(Tom Xue)

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RF EXPOSURE EVALUATION

According to FCC 1.1310: 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)

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)					
(A) Limits for Occupational/Controlled Exposure									
0.3-3.0	614	1.63	*100	6					
3.0-30	1842/	4.89/1	*900/f <sup>2</sup>	6					
30-300	61.4	0.163	1.0	6					
300-1,500			f/300	6					
1,500-100,000			5	6					
	(B) Limits for Gene	ral Population/Uncontrolled	Exposure						
0.3-1.34	614	1.63	*100	30					
1.34-30	824/	2.19/1	*180/f <sup>2</sup>	30					
30-300	27.5	0.073	0.2	30					
300-1,500			f/1500	30					
1,500-100,000			1.0	30					

f = frequency in MHz \* = Plane-wave equivalent power density

MPE Calculation Method

Friis transmission formula: Pd= (Pout\*G)\ (4\*pi\*R2)

Where

Pd= Power density in mW/cm<sup>2</sup>

Pout=output power to antenna in mW

G= Numeric gain of the antenna relative to isotropic antenna

Pi=3.1415926

R= distance between observation point and center of the radiator in cm(20cm)

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

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## **Measurement Result**

BT/BLE:

Operation Frequency: 2402-2480MHz,

Power density limited: 1mW/ cm<sup>2</sup>

Power density limited: 1mW/ cm<sup>2</sup>

BLE:

Channel Freq. n (MHz)	modulation	conducted power	Tune-up power (dBm)	Max		Antenna		Evaluation result	Power density Limits
		(dBm)		tune-up power		Gain		(mW/cm <sup>2</sup> )	(mW/cm²)
				(dBm)	(mW)	(dBi)	Numeric	(**************************************	()
2402	2402 2440 BLE-1M 2480	-0.42	0±1	1	1.259	1.49	1.41	0.0004	1
2440		-0.3	0±1	1	1.259	1.49	1.41	0.0004	1
2480		-0.59	0±1	1	1.259	1.49	1.41	0.0004	1

## **Conclusion:**

For the max result: 0.0004≤ 1.0, No SAR is required.

----END OF REPORT----