

Report No.: TB-MPE157636

Page: 1 of 3

Maximum Permissible Exposure Evaluation

FCC ID: 2AK77-W1

1. Client Information

Applicant Shenzhen Yuetu Network Technology Ltd.

3/F, Yinjin Industrial Park, Liuxian 2 Road, Bao'an District, **Address**

Shenzhen, Guangdong, China

Shenzhen Yuetu Network Technology Ltd. Manufacturer

Address 3/F, Yinjin Industrial Park, Liuxian 2 Road, Bao'an District,

Shenzhen, Guangdong, China

2. General Description of EUT

EUT Name		DashCam			
Models No.		W1			
Product Description		Operation Frequency:	2.4G WIFI: 802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz 5G WIFI: U-NII-1: 5180MHz~5240MHz U-NII-3: 5745MHz~5825MHz		
		Antenna Gain:	7dBi FPC Antenna		
Power Supply	1	DC Voltage supplied by DC Adapter DC Voltage supplied by Li-ion battery			
Power Rating		DC Adapter (C001): Input: DC 12~24V Output: DC 5V, 2.1A/1.0A DC 3.7V by 120mAh Li-ion battery			
Connecting I/O Port(S)		Please refer to the User's Manual			
F141.3	abou	t the RF function, please refer the R	F test reports.		

TB-RF-075-1. 0

Tel: +86 75526509301



Report No.: TB-MPE157636

Page: 2 of 3

MPE Calculations for WIFI

1. Antenna Gain:

FPC Antenna: 7dBi.

2. EUT Operation Condition:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3. Exposure Evaluation:

Equation from page 18 of OET Bulletin 65, Edition 97-01

 $S=(PG)/4\pi R^2$

Where

S: power density

P: power input to the antenna

G: power gain of the antenna in the direction of interest relative to an isotropic radiator.

R: distance to the center of radiation of the antenna

4. Test Result:

Mode	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/ cm ²) [S]
802.11b	17.70	17±1	18	7	20	0.06291
802.11g	16.02	16±1	17	7	20	0.04997
802.11n (HT20)	15.75	15±1	16	7	20	0.03970
802.11n (HT40)	13.54	13±1	14	7	20	0.02505
U-NII-1 (5180~5240MHz)	12.59	12±1	13	7	20	0.01989
U-NII-3 (5745~5825MHz)	7.04	7±1	8	7	20	0.00629

Note: 2.4G WIFI and 5G WIFI can't work together.



Report No.: TB-MPE157636

Page: 3 of 3

5. Conclusion:

As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),

Limits for General Population/ Uncontrolled Exposure

Frequency Range (MHz)	Power density (mW/ cm²)		
300-1,500	F/1500		
1,500-100,000	1.0		

For 802.11b/g/n:2412~2462 MHz U-NII-1: 5180MHz~5240MHz U-NII-3: 5745MHz~5825MHz

MPE limit S: 1mW/ cm²

The MPE is calculated as 0.06291mW / cm² < limit 1mW / cm². So, RF exposure limit warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47 CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.

Note

For a more detailed features description, please refer to the RF Test Report.

----END OF REPORT-----