RF Exposure MPE

Report Reference No.....:	**HTT2025061064F04**
FCC ID..... :	**2BQSJ-C6PRO**
Compiled by (position+printed name+signature) .:	File administrators Heber He
Supervised by (position+printed name+signature) .:	Project Engineer Bruce Zhu
Approved by (position+printed name+signature) .:	RF Manager Kevin Yan
Date of issue .....:	Jul. 11, 2025
Testing Laboratory Name.....:	**Shenzhen HTT Technology Co.,Ltd.**
Address.....:	1F, Building B, Huafeng International Robotics Industrial Park, Hangcheng Road,Nanchang Community, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China
Applicant's name.....:	**AOOCCI INTERNATIONAL LIMITED (Hong Kong)**
Address.....:	RM4, 16/f, HO KING COMM CTR, 2-16 FAYUEN ST, MONGKOK, KOWLOON, HONG KONG
Standard.....:	**47CFR §1.1310** **47CFR §2.1091** **KDB447498 D01 General RF Exposure Guidance v06**

Test item description .....:	**All-in-One Motorcycle Dash Cam with**
Manufacturer .....:	Shenzhen Yixinmai Technology Co., LTD
Trade Mark	N/A
Model/Type reference .....:	C6Pro
Rating .....:	DC 5V
Result .....:	**PASS**

T E S T R E P O R T

Equipment under Test	:	All-in-One Motorcycle Dash Cam with
Model /Type	:	C6Pro
Listed Models	:	N/A
Applicant	**:**	**AOOCCI INTERNATIONAL LIMITED (Hong Kong)**
Address	:	RM4, 16/f, HO KING COMM CTR, 2-16 FAYUEN ST, MONGKOK, KOWLOON, HONG KONG
Manufacturer	**:**	**Shenzhen Yixinmai Technology Co., LTD**
Address	:	Room 505, 5th Floor, Block F, DongHaiWang Industrial Zone, No. 369, Bulong Road, Ma AnTang Community, Bantian Subdistrict, Longgang District, Shenzhen

Test Result:	**PASS**

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Contents

1 TEST STANDARDS

The tests were performed according to following standards:

ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.
FCC KDB 447498 D01 General RF Exposure Guidance v06: Mobile and Portable Device, RF Exposure, Equipment Authorization Procedures.
FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.
FCC CFR 47 part2 2.1091: Radiofrequency radiation exposure evaluation: mobile devices

2 SUMMARY

2.1 General Remarks

Date of receipt of test sample	:	Jun. 19, 2025
Testing commenced on	:	Jun. 19, 2025
Testing concluded on	:	Jul. 11, 2025

2.2 Product Description

Product Name:	All-in-One Motorcycle Dash Cam with
Model/Type reference:	C6Pro
Hardware version:	/
Software version:	/
Test samples ID:	HTT2025061064-1# (Engineer sample) HTT2025061064-2# (Normal sample)
Power Supply:	DC 5V
Voltage reducing box:	Input: 12-30V Output: 5V
WIFI 5G	
Supported type:	40MHz system
	802.11n
Operation frequency:	5190MHz-5230MHz
Modulation:	802.11n:OFDM
Channel number:	2
Channel separation:	40MHz
Antenna Type:	FPC Antenna
Antenna gain:	3.11 dBi
BT	
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	79
Channel separation:	1MHz
Modulation type:	GFSK, π/4-DQPSK, 8-DPSK
Antenna Type:	FPC Antenna
Antenna Gain:	1.75 dBi
WIFI 2.4G	
Channel numbers:	802.11b /802.11g /802.11n(HT20): 11
Channel separation:	5MHz
Modulation	802.11b: Direct Sequence Spread Spectrum (DSSS)

technology:	802.11g/802.11n(H20): Orthogonal Frequency Division Multiplexing (OFDM)
Antenna Type:	FPC Antenna
Antenna gain:	1.75 dBi

2.3 Special Accessories

The following is the EUT test of the auxiliary equipment provided by the laboratory:

Description	Manufacturer	Model	Technical Parameters	Certificate	Provided by
/	/	/	/	/	/

2.4 Modifications

No modifications were implemented to meet testing criteria.

3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen HTT Technology Co.,Ltd.
1F, Building B, Huafeng International Robotics Industrial Park, Hangcheng Road,Nanchang Community, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 779513 Designation Number: CN1319
Shenzhen HTT Technology Co.,Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6435.01
Shenzhen HTT Technology Co.,Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen HTT Technology Co.,Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.
Hereafter the best measurement capability for Shenzhen HTT Technology Co.,Ltd. :

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9KHz~30MHz	3.12 dB	(1)
Radiated Emission	30~1000MHz	4.37 dB	(1)
Radiated Emission	1~18GHz	5.40 dB	(1)
Radiated Emission	18-40GHz	5.45 dB	(1)
Conducted Disturbance	0.15~30MHz	2.68 dB	(1)
Spectrum bandwidth	/	1.2%	(1)
Output Peak power	30MHz~18GHz	0.57dB	(1)
Time	/	±10%	(1)
Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.			

4 Test limit

4.1 Requirement

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm^2)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	6
3.0 – 30	1842/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

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm^2)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	30
3.0 – 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

F=frequency in MHz
*=Plane-wave equivalent power density

4.2 MPE Calculation Method

Predication of MPE limit at a given distance
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 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

4.3 Conducted Power Results

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)	
				ANT1	Limit
GFSK	SISO	2402	DH5	12.41	<=30
		2441	DH5	11.96	<=30
		2480	DH5	11.05	<=30
Pi/4DQPSK	SISO	2402	2DH5	14.03	<=20.97
		2441	2DH5	13.61	<=20.97

		2480	2DH5	12.81	<=20.97
8DPSK	SISO	2402	3DH5	14.33	<=20.97
		2441	3DH5	14.13	<=20.97
		2480	3DH5	13.44	<=20.97

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)	
			ANT1	Limit
802.11b	SISO	2412	27.72	<=30
		2437	27.73	<=30
		2462	27.72	<=30
802.11g	SISO	2412	28.31	<=30
		2437	28.54	<=30
		2462	28.55	<=30
802.11n (HT20)	SISO	2412	27.01	<=30
		2437	27.41	<=30
		2462	27.44	<=30

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)	
			ANT1	Limit
802.11n (HT40)	SISO	5190	15.05	<=23.98
		5230	15.29	<=23.98

4.4 Manufacturing tolerance

Mode	Max. Peak Conducted Output Power (dBm)	Max. tune-up
BT	14.33	13.0±1
2.4GWIFI	28.55	28.0±1
Mode	Max. Average Conducted Output Power (dBm)	Max. Tune-up
5.2GWIFI	15.29	15.0±1

4.5 Standalone MPE Result

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, r =20cm, as well as the gain of the used antenna is refer to section 2.2, the RF power density can be obtained.

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (Mw/cm^2)	MPE Limits (Mw/cm^2)
	dBm	Mw				
BT	14.0	25.1189	1.75	1.4962	0.0075	1.0000
2.4GWIFI	29.0	794.3282	1.75	1.4962	0.2366	1.0000
5.2GWIFI	16.0	39.8107	3.11	2.0464	0.0162	1.0000

Remark:
1. Output power (Peak) including turn-up tolerance;
2. MPE evaluate distance is 20cm from user manual provide by manufacturer.
3. *BT and WLAN can be active at the same time, but only with interleaving of packages switched on board level. That means that they cannot transmit at the same time.*

4.6 Simultaneous Transmission for MPE Result

N/A

5 Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device Threshold per KDB 447498 D01v06

********** **End of Report** **********