Radio Test Report

Report No.:CTA231129002H02

Issued for

Chengdu Accsoon Technology Co., LTD.

Rm. 2502, Bld. A, Tianxiang Plaza, Tianfu 2nd St., High-tech Zone, Chengdu, Sichuan, China

Product Name: Wireless Video Transmission System

Brand Name: Accsoon

Model Name: WIT04-HE

Series Model(s):

WIT04-QS, WIT04-SE

FCC ID: 2AOH404WIT2C

Test Standard: FCC 47CFR §2.1091

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CTA CTA

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

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TEST REPORT

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Applicant's Nar	ne: Chenadu	Accsoon Technology Co., LTD.
	: Rm. 250	2, Bld. A, Tianxiang Plaza, Tianfu 2nd St., High-tech nengdu, Sichuan, China
Manufacturer's		en Accsoon Technology Co., LTD.
Address		-305, 3F, Bld. 10, Baozhi Industrial Rd., Guancheng Guanhu St., Longhua District, Shenzhen, China
Product Descrip	ption	
Product Name	: Wireless	Video Transmission System
Brand Name	: Accsoon	
Model Name	: WIT04-H	IEIG
Series Model(s).	:: WIT04-G	2S, WIT04-SE
Test Standards		CFR §2.1091
This report shall r only be altered or	447498 I not be reproduced except	D01 Interim General RF Exposure Guidance v06 in full, without the written approval of CTA, this document I only, and shall be noted in the revision of the document.
	f test item	26 Sept. 2023
	mance of tests	
		18 Oct. 2023
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	Con CIA	TATESTING
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	TESTING	(Zoey Cao)
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		Evic Wang
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		(Eric Wang)
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Revision History

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Rev. Issue Date Report No.	Effect Page	Contents
00 18 Oct. 2023 CTA231129002H02	ALL	Initial Issue
	Cr c ^{tP}	



1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Wireless Video Transmission System
Brand Name	Accsoon
Model Name	WIT04-HE
Series Model(s)	WIT04-QS, WIT04-SE
Model Difference	WIT04-QS and WIT04-HE only have different model names, The video input interfaces of WIT04-SE and WIT04-HE are different
Product Description	The EUT is Wireless Video Transmission System.2.4G WLAN:802.11n 20: 2412~2462 MHz 5.2G WLAN: IEEE 802.11n(HT20): 5.180GHz-5.240GHz 5.3G WLAN: IEEE 802.11 n(HT20):5.280GHz-5.320GHz 5.6G WLAN: IEEE 802.11 n(HT20):5.500GHz-5.700GHz 5.8G WLAN: IEEE 802.11 n(HT20):5.745GHz-5.825GHzModulation Type:802.11n(OFDM):BPSK,QPSK,16-QAM,64-Q AMModulation Type:SG WLAN: Antenna gain:Antenna Designation:External antenna
Rating	Input:7.4V~16.8V 1.5A
Hardware Version	V1.1
Software Version	V1.28
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1.2 TEST FACTORY

Shenzhen CTA Testing Technology Co., Ltd. Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, JIE CTATESTI Shenzhen, China

FCC test Firm Registration Number: 517856

IC test Firm Registration Number: 27890

A2LA Certificate No.: 6534.01

IC CAB ID: CN0127 CTA TESTING

2. FCC 47CFR §2.1091 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of the human exposure to radio-frequency (RF) radiation as specified in 1.1307 (b)

Limits for Maximum P	ermissible Exposure	(MPE)	
Frequency Range	Electric Field	Magnetic Field	Power Density
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm²)
Limits for Occupation	nal / controlled Exposi	ures	CTA '
300 - 1500			F/300
1500 – 100000			5.0
Limits for General po	opulation / Uncontrolle	ed Exposure	
300 - 1500 🚬 G			F/1500
1500 - 100000			1.0
F= Frequency in MHz	-		
Friss Formula		STINC	
Friss Transmission Fo	ormula: Pd = (Pout * G	6) / (4*pi*r²)	
Where	G		
Pd = power density in	mW/cm ²		
Pout = output power t	o antenna in mW		TESTING
G = gain of antenna in	n linear scale		
Pi = 3.1416			

R = Distance between observation point and the center of radiator in cm If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 20cm.

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2.3 TEST RESULT

Turn up

ST RESULT			
	TATES	JUNG	
Mode	Detector	Turn up Power	
2.4G WLAN	AV	14±1dBm	TES
5G WLAN	AV	17±1dBm	CTA I
			Com.

	5G WLAN			AV			17±1dBm		C		
TATESTING											
	Protocol	Fre. (GHz)	Separati on distance (cm)	Max Turn up power (dBm)	ANT Gain (dBi)	Max EIRP (dBm)	Max EIRP (mW)	Power Density (mW/cm ²)	Limit (mW/ cm²)	Ratio	Result
G	2.4G WLAN	2.412	20	15	2.5	17.50	56.234	0.0112	CT A	0.0112	Pass
	5G WLAN	5.240	20	18.00	2.5	20.50	112.202	0.0223	1	0.0223	Pass

Multiple transmission:

2.4G WLAN+5G WLAN=0.0112+0.0223=0.0335<1

Note: 1. The Maxinum power is less than the limit, complies with the exemption requirements. CTATES'

2. The 2.4G WLAN and 5G WLAN can simultaneous transmission at the same time.

CTATESTING ** ** ** ** END OF THE REPORT ** ** ** **