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ТЕ	EST REPORT	
Report No:	CHTW24010060	Report Verification:
Project No	SHT2401001704W	
FCC ID::	2ASWW-PKPRO	REPORTING: CH119/24010060
Applicant:	XINCHUANGXIN INTERNATIO	NAL CO. LTD
Address:	ROOM 605 6/F, FA YUEN COM YUEN STREET MONGKOK KL	MERCIAL BUILDING, 75-77 FA
Product Name:	Feature phone	
Trade Mark	CORN	
Model No	Power K Pro	
Listed Model(s):		
Standard:	FCC CFR Title 47 Part 2 FCC CFR Title 47 Part 22 Subp	
	FCC CFR Title 47 Part 24 Subp	part E
Date of receipt of test sample:	Jan. 04, 2024	
Date of testing:	Jan. 05, 2024- Jan. 19, 2024	
Date of issue:	Jan. 23, 2024	
Result	Pass	
Compiled by (position+printedname+signature):	File administrators Xiaodong Zha	ao Xiaodong Zheo
Supervised by (position+printedname+signature):	Project Engineer Xiaodong Zha	ao Xiaodong Zheo
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Testing Laboratory Name: :	Shenzhen Huatongwei Interna	tional Inspection Co., Ltd.
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The test report merely correspond to the test sample.

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1. TEST STANDARDS AND REPORT VERSION

1.1. Applicable Standards

The tests were performed according to following standards:

FCC CFR Title 47 Part 2: Frequency Allocations and Radio Treaty Matters; General Rules and Regulations

FCC CFR Title 47 Part 22 Subpart H: Cellular Radiotelephone Service

FCC CFR Title 47 Part 24 Subpart E: Broadband PCS

ANSI C63.26-2015: American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

KDB 971168 D01 Power Meas License Digital Systems v03: MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS

1.2. Report version information

Revision No.	Date of issue	Description
N/A	2024-01-23	Original

2. TEST DESCRIPTION

Section	Test Item	Section in CFR 47	Result #1	Test Engineer
		Part 2.1046		
5.1	Conducted Output Power	Part 22.913(a)	Pass	Xiaodong Zhao
		Part 24.232(c)		
5.2	Peak-to-Average Ratio	Part 24.232	Pass	Xiaodong Zhao
		Part 2.1049		
5.3	99% Occupied Bandwidth & 26 dB Bandwidth	Part 22.917(b)	Pass	Xiaodong Zhao
		Part 24.238(b)		
		Part 2.1051		
5.4	Band Edge	Part 22.917	Pass	Xiaodong Zhao
		Part 24.238		
		Part 2.1051		
5.5	5.5 Conducted Spurious Emissions	Part 22.917	Pass	Xiaodong Zhao
		Part 24.238		
	_	Part 2.1055(a)(1)(b)		
5.6	5.6 Frequency stability vs temperature	Part 22.355	Pass	Xiaodong Zhao
		Part 24.235		
		Part 2.1055(d)(1)(2)		
5.7	Frequency stability vs voltage	Part 22.355	Pass	Xiaodong Zhao
		Part 24.235		
5.8	ERP and EIRP	Part 22.913(a)	Pass	Vinodona Zhao
0.0		Part 24.232(b)	F 855	Xiaodong Zhao
		Part 2.1053		
5.9	Radiated Spurious Emissions	Part 22.917	Pass	Yifan Wang
		Part 24.238		

Note:

#1: The test result does not include measurement uncertainty value

3. <u>SUMMARY</u>

3.1. Client Information

Applicant:	XINCHUANGXIN INTERNATIONAL CO. LTD	
Address:	ROOM 605 6/F, FA YUEN COMMERCIAL BUILDING, 75-77 FA YUEN STREET MONGKOK KL	
Manufacturer:	Shenzhen Chiteng Technology Co.,LTD	
Address:	Second Floor, Area A, Building 4, Huiye Technology Workshop, Guanguang Road, Tangjia Community, Gongming Street, Guangming New District, Shenzhen, Guangdong	

3.2. Product Description

Main unit information:		
Product Name:	Feature phone	
Trade Mark:	CORN	
Model No.:	Power K Pro	
Listed Model(s):	-	
Power supply:	DC 3.7V from Li-ion Battery	
Hardware version:	ZS368TF_MB_V1.1	
Software version:	ZS621TF_48X128_240320_B28403TF_GT50_4G_CORN_EnFrPoSp_V01	
Accessory unit information:		
Battery information:	BL-P4K Voltage: 3.7V Capacity: 4000mAh 3.7V Li-ion BATTERY 14.8Wh	
Adapter information:	MODEL: FSF-02 Input: AC100-240V 50/60Hz 0.15A Output: DC 5.0V, 500mA	

3.3. Radio Specification Description

Support Operating Band:	GSM850	PCS1900		
Operating Frequency Range:	Please refer to note	e #2		
Support Network:	⊠ GSM	GPRS	EGPRS	
Modulation type:	GMSK	BPSK		
GPRS Multislot Class:	8	☐ 10	2 12	33
Antenna type:	PIFA			
Antenna gain #3:	GSM850: -1.2dBi		PCS1900: 0.6dB	i

Note:

○ ⊠: means that this feature is supported; □: means that this feature is not supported

O #2: Operating frequency range is as follow:

Band

Uplink frequency

Downlink frequency

Shenzhen Huatongwei International Inspection Co., Ltd.

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GSM850	824.20 - 848.80MHz	869.20 - 893.80MHz
PCS1900	1850.20 -1909.80MHz	1930.20 -1989.80MHz

O #3: The antenna gain is provided by the applicant, and the applicant should be responsible for its authenticity, HTW lab has not verified the authenticity of its information

3.4. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.		
Laboratory Location	Building 7, Baiwang Idea Factory, No.1051, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong, China		
Contact information:	Tel: 86-755-26715499 E-mail: <u>cs@szhtw.com.cn</u> <u>http://www.szhtw.com.cn</u>		
	Type Accreditation Number		
Qualifications:	FCC Registration Number	762235	
	FCC Designation Number	CN1181	

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4. TEST CONFIGURATION

4.1. Test frequency list

GSM850		PCS1900		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	
128	824.20	512	1850.20	
190	836.60	661	1880.00	
251	848.80	810	1909.80	

4.2. Test mode

	Test mode	Link mode
--	-----------	-----------

- Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems and ANSI C63.26 with maximum output power.
- 2) Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

All modes and data rates and positions were investigated, test modes are chosen to be reported as the worst case configuration below:

Band	Radiated test items	Conducted test items
GSM 850	■ GSM link	GSM linkGPRS Class 12 link
PCS 1900	■ GSM link	GSM linkGPRS Class 12 link

4.3. Test sample information

Test item	HTW sample no.
Conducted test items	Please refer to the description in the appendix report
Radiated test items	YPHT24010017003

Note:

Conducted test items: Conducted Output Power, Peak-Average Ratio, 99% Occupied Bandwidth & 26 dB Bandwidth, Band Edge, Conducted Spurious Emissions, Frequency stability, ERP and EIRP

Radiated test items: Radiated Spurious Emission

4.4. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Whethe	er support unit is used?			
~	No			
Item	Equipment	Trade Name	Model No.	Other
1				
2				

4.5. Testing environmental condition

	VN=Nominal Voltage	DC 3.70V
Voltage	VL=Lower Voltage	DC 3.33V
	VH=Higher Voltage	DC 4.07V
Townsoroture	TN=Normal Temperature	25 °C
Temperature	Extreme Temperature	From -30°C to + 50°C
Humidity	30~60 %	
Air Pressure	950-1050 hPa	

4.6. Statement of the measurement uncertainty

No.	Test Items	Measurement Uncertainty
1	Conducted Output Power	0.66
2	Peak-to-Average Ratio	-
3	99% Occupied Bandwidth & 26 dB Bandwidth	0.002%
4	Band Edge	1.68dB
5	Conducted Spurious Emissions	1.68dB
6	Frequency stability	0.02ppm
7	Radiated Spurious Emission	4.54dB for 30MHz-1GHz
	Tradiated Opunous Emission	5.10dB for above 1GHz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

4.7. Equipments Used during the Test

•	RF Conducted	test item					
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Spectrum Analyzer	Agilent	HTWE0286	N9020A	MY50510187	2023/08/22	2024/08/21
•	Radio communication tester	R&S	HTWE0287	CMW500	137688-Lv	2023/08/25	2024/08/24
•	Test software	Tonscend	N/A	JS1120	N/A	N/A	N/A
•	T-Cock	Weinschel	HTWE0289	1580	SC329	2023/08/22	2024/08/21

•	Auxiliary Equi	pment					
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Climate chamber	ESPEC	HTWS0715	GPL-2	N/A	2023/08/21	2024/08/20
•	DC Power Supply	Gwinstek	HTWE0274	SPS-2415	GER835793	N/A	N/A

•	Radiated Spu	urious Emission					
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	C11121	2023/4/17	2026/4/16
•	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2023/08/22	2024/08/21
•	Spectrum Analyzer	R&S	HTWE0385	N9020A	MY54486658	2023/08/22	2024/08/21
•	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2021/4/6	2024/4/5
•	Horn Antenna	SCHWARZBECK	HTWE0126	BBHA 9120D	1011	2023/2/14	2026/2/13
•	Pre-Amplifer	CD	HTWE0071	PAP-0102	12004	2023/5/25	2024/5/24
•	Broadband Pre- amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2023/5/25	2024/5/24
•	Test Software	Audix	N/A	E3	N/A	N/A	N/A

•	Auxiliary Equi	pment					
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Radio communication tester	R&S	HTWE0287	CMW500	137688-Lv	2023/08/25	2024/08/24
•	High pass filter	Wainwright	HTWE0297	WHKX3.0/18G-10SS	38	2023/05/15	2024/05/14
•	Band Stop filter	-	HTWE0039	N/A	N/A	2023/01/26	2024/01/25

5. TEST CONDITIONS AND RESULTS

5.1. Conducted Output Power

<u>LIMIT</u>

N/A

TEST CONFIGURATION



Communication Tester

TEST PROCEDURE

- 1. The EUT output port was connected to communication tester.
- 2. Set EUT at maximum power through communication tester.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure the maximum burst average power.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

☑ Passed □ Not Applicable

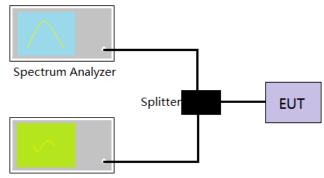
TEST DATA

5.2. Peak-to-Average Ratio

<u>LIMIT</u>

13dB

TEST CONFIGURATION



Communication Tester

TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- 3. Center Frequency = Carrier frequency, RBW > Emission bandwidth of signal
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve
- 5. The measurement interval was set depending on the type of signal analyzed.
 - i. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms.
 - ii. For bursttransmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that issynced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in whichthetransmitter is operating at maximum power
- 6. Record the maximum PAPR level associated with a probability of 0.1%.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

☑ Passed □ Not Applicable

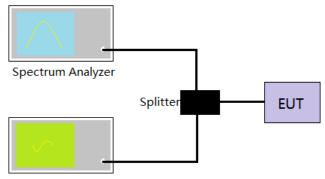
TEST DATA

5.3. 99% Occupied Bandwidth & 26 dB Bandwidth

<u>LIMIT</u>

N/A

TEST CONFIGURATION



Communication Tester

TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- 3. Spectrum analyzer setting as follow:

Center Frequency= Carrier frequency, RBW=1% to 5% of anticipated OBW, VBW= 3 * RBW, Detector=Peak, Trace maximum hold.

4. Record the value of 99% Occupied bandwidth and -26dB bandwidth.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

🛛 Passed

Not Applicable

TEST DATA

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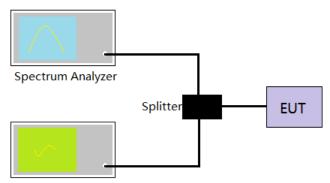
5.4. Band Edge

<u>LIMIT</u>

Part 24.238 and Part 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P) dB$.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

TEST CONFIGURATION



Communication Tester

TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- 3. The band edges of low and high channels were measured.
- 4. Spectrum analyzer setting as follow:

RBW=3KHz, VBW = 10KHz, Sweep time= Auto

5. Record the test plot.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

☑ Passed □ Not Applicable

TEST DATA

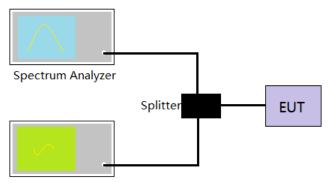
5.5. Conducted Spurious Emissions

LIMIT

Part 24.238 and Part 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

TEST CONFIGURATION



Communication Tester

TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- Spectrum analyzer setting as follow: Below 1GHz, RBW=100KHz, VBW = 300KHz, Detector=Peak, Sweep time= Auto Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peak, Sweep time= Auto Scan frequency range up to 10th harmonic.
- 4. Record the test plot.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

☑ Passed □ Not Applicable

TEST DATA Refer to the appendix report

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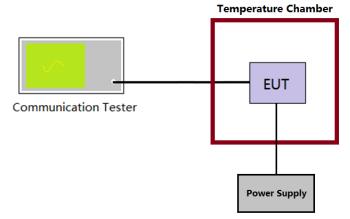
5.6. Frequency stability VS Temperature measurement

Page:

<u>LIMIT</u>

2.5ppm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The equipment under test was connected to an external DC power supply and input rated voltage.
- 2. The EUT output port was connected to communication tester.
- 3. The EUT was placed inside the temperature chamber.
- 4. Turn EUT off and set the chamber temperature to –30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.
- 5. Repeat step 4 measure with 10°C increased per stage until the highest temperature of +50°C reached.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

🛛 Passed

Not Applicable

<u>TEST DATA</u>

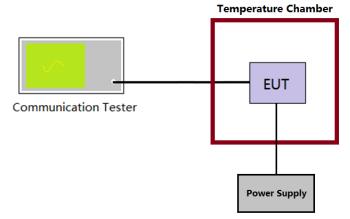
Page:

5.7. Frequency stability VS Voltage measurement

LIMIT

2.5ppm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The equipment under test was connected to an external DC power supply and input rated voltage.
- 2. The EUT output port was connected to communication tester.
- 3. The EUT was placed inside the temperature chamber at 25°C
- The power supply voltage to the EUT was varied ±15% of the nominal value measured at the input to the EUT
- 5. Record the maximum frequency change.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

🛛 Passed

Not Applicable

TEST DATA Refer to the appendix report

<u>LIMIT</u>

GSM850: 7W (38.45dBm) ERP PCS1900: 2W (33dBm) EIRP

TEST PROCEDURE

- 1. According to the power tested in section 5.1, select the maximum power in each mode, and use the following formula to calculate the corresponding ERP/EIRP.
- 2. ERP = conducted power + Gain(dBd)
- EIRP = conducted power + Gain(dBi)
 ERP = EIRP 2.15

TEST RESULTS

☑ Passed □ Not Applicable

TEST DATA

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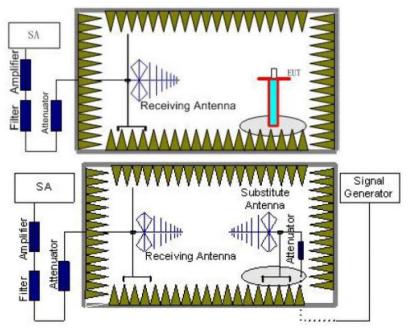
2024-01-23

5.9. Radiated Spurious Emission

<u>LIMIT</u>

-13dBm

TEST CONFIGURATION



TEST PROCEDURE

- 1. Place the EUT in the center of the turntable.
 - a) For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table at a nominal height of 80 cm above the reference ground plane
 - b) For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table at a nominal height of 1.5 m above the ground plane.
- Unless the EUT uses an integral antenna, the EUT shall be terminated with a non-radiating transmitter load. In cases where the EUT uses an adjustable antenna, the antenna shall be adjusted through typical positions and lengths to maximize emissions levels.
- 3. The EUT shall be tested while operating on the frequency per manufacturer specification. Set the transmitter to operate in continuous transmit mode.
- 4. Receiver or Spectrum set as follow:

Below 1GHz, RBW=100kHz, VBW=300kHz, Detector=Peak, Sweep time=Auto

Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peck, Sweep time=Auto

- 5. Each emission under consideration shall be evaluated:
 - a) Raise and lower the measurement antenna from 1 m to 4 m, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
 - b) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
 - c) Return the turntable to the azimuth where the highest emission amplitude level was observed.
 - d) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
 - e) Record the measured emission amplitude level and frequency
- 6. Repeat step 5 for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.
- 7. Set-up the substitution measurement with the reference point of the substitution antenna located as near as possible to where the center of the EUT radiating element was located during the initial EUT

Page:

measurement.

- 8. Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
- 9. Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.
- 10. For each emission that was detected and measured in the initial test
 - a) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
 - b) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step 5 and step 6.
 - c) Record the output power level of the signal generator when equivalence is achieved in step b).
- 11. Repeat step 8 through step 10 with the measurement antenna oriented in the opposite polarization.
- 12. Calculate the emission power in dBm referenced to a half-wave dipole using the following equation:

Pe = Ps(dBm) - cable loss (dB) + antenna gain (dBd)

where

Pe = equivalent emission power in dBm

Ps = source (signal generator) power in dBm

NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.

13. Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from:

gain (dBd) = gain (dBi) - 2.15 dB.

If necessary, the antenna gain can be calculated from calibrated antenna factor information

14. Provide the complete measurement results as a part of the test report.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

☑ Passed □ Not Applicable

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Date of issue:

2024-01-23

				GSM8	50				
Test cha	annel:	128	F	Polarization	ו:	Horiz	zontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	31.96	-71.68	26.49	1.02	30.72	-74.89	-13.00	-61.89	Peak
2	141.95	-66.24	17.57	2.25	30.53	-76.95	-13.00	-63.95	Peak
3	1648.51	-63.86	36.15	8.67	28.70	-47.74	-13.00	-34.74	Peak
4	2569.49	-70.49	38.91	11.32	26.58	-46.84	-13.00	-33.84	Peak
5	4117.79	-53.83	41.85	5.60	41.40	-47.78	-13.00	-34.78	Peak
6	4946.07	-41.45	44.17	6.06	41.17	-32.39	-13.00	-19.39	Peak
Test channel:		128	128			Polarization:		Vertical	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	141.95	-65.71	21.62	2.25	30.53	-72.37	-13.00	-59.37	Peak
2	593.90	-75.31	27.20	4.88	29.79	-73.02	-13.00	-60.02	Peak
3	1648.51	-58.29	36.11	8.67	28.70	-42.21	-13.00	-29.21	Peak
4	2626.57	-71.23	39.36	11.40	25.75	-46.22	-13.00	-33.22	Peak
5	4117.79	-53.79	42.12	5.60	41.40	-47.47	-13.00	-34.47	Peak
6	4946.07	-38.82	44.28	6.06	41.17	-29.65	-13.00	-16.65	Peak

Test cha	annel:	190	190			Polarization:			Horizontal		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark		
	MHZ	dBm	dB	dB	dB	dBm	dBm	limit			
1	42.79	-73.08	26.49	1.19	30.56	-75.96	-13.00	-62.96	Peak		
2	598.09	-76.77	27.78	4.90	29.84	-73.93	-13.00	-60.93	Peak		
3	1674.06	-59.32	36.25	8.74	28.95	-43.28	-13.00	-30.28	Peak		
4	2790.17	-74.28	40.64	11.83	24.67	-46.48	-13.00	-33.48	Peak		
5	4191.82	-53.71	42.24	5.61	41.40	-47.26	-13.00	-34.26	Peak		
6	5022.19	-44.21	44.31	6.10	41.09	-34.89	-13.00	-21.89	Peak		
Test channel:		190		F	Polarization:		Vertical				
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark		
	MHZ	dBm	dB	dB	dB	dBm	dBm	limit			
1	141.95	-70.75	21.62	2.25	30.53	-77.41	-13.00	-64.41	Peak		
2	593.90	-73.55	27.20	4.88	29.79	-71.26	-13.00	-58.26	Peak		
3	1674.06	-59.01	36.17	8.74	28.95	-43.05	-13.00	-30.05	Peak		
4	2617.93	-71.40	39.29	11.39	25.94	-46.66	-13.00	-33.66	Peak		
5	4181.16	-50.36	42.44	5.61	41.40	-43.71	-13.00	-30.71	Peak		

6.10 41.09

-32.50

-41.95

44.44

-13.00 -19.50

Peak

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Test cha	innel:	251	251			ו:	Horiz	contal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark	
1	44.64	-77.75	25.69	1.22	30.54	-81.38	-13.00	-68.38	Peak	
2	593.90	-75.52	27.59	4.88	29.79	-72.84	-13.00	-59.84	Peak	
3	1700.00	-65.21	36.35	8.82	29.04	-49.08	-13.00	-36.08	Peak	
4	2497.14	-71.61	39.29	11.08	27.03	-48.27	-13.00	-35.27	Peak	
5	5099.49	-51.65	44.15	6.26	41.06	-42.30	-13.00	-29.30	Peak	
6	5940.97	-57.15	44.39	6.83	40.65	-46.58	-13.00	-33.58	Peak	
Test channel:		251		F	olarizatior	ו:	Verti	cal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark	
1	43.71	-74.29	21.49	1.21	30.55	-82.14	-13.00	-69.14	Peak	
2	141.95	-71.25	21.62	2.25	30.53	-77.91	-13.00	-64.91	Peak	
3	1700.00	-62.38	36.24	8.82	29.04	-46.36	-13.00	-33.36	Peak	
4	2203.18	-71.02	41.69	10.29	29.13	-48.17	-13.00	-35.17	Peak	
5	3393.48	-52.27	39.63	5.06	41.60	-49.18	-13.00	-36.18	Peak	
6	5099.49	-44.30	44.21	6.26	41.06	-34.89	-13.00	-21.89	Peak	

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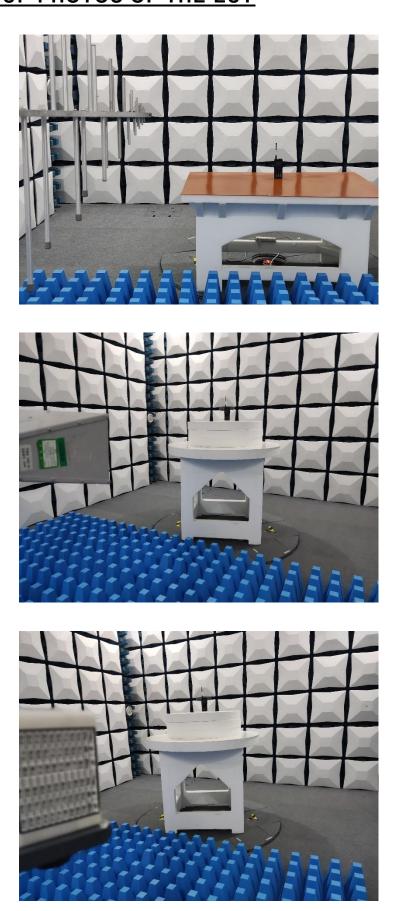
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Test channel:		512		I	Polarization	ו:	Horiz	zontal	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	60.40	-78.38	24.20	1.43	30.84	-83.59	-13.00	-70.59	Peak
2	847.15	-80.31	29.80	5.96	29.33	-73.88	-13.00	-60.88	Peak
3	1630.49	-70.68	36.08	8.60	28.93	-54.93	-13.00	-41.93	Peak
4	2317.38	-70.34	40.28	10.57	28.90	-48.39	-13.00	-35.39	Peak
5	3700.26	-49.18	42.29	5.19	41.60	-43.30	-13.00	-30.30	Peak
6	5546.36	-51.70	43.82	6.49	40.79	-42.18	-13.00	-29.18	Peak
Test cha	annel:	512			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	98.47	-81.56	25.77	1.85	30.65	-84.59	-13.00	-71.59	Peak
1	850.14	-81.37	29.84	5.97	29.35	-74.91	-13.00	-61.91	Peak
3	1572.44	-71.45	37.76	8.45	28.90	-54.14	-13.00	-41.14	Peak
4	2210.45	-70.78	41.60	10.30	29.08	-47.96	-13.00	-34.96	Peak
5	3700.26	-52.69	42.32	5.19	41.60	-46.78	-13.00	-33.78	Peak
6	5546.36	-52.28	43.96	6.49	40.79	-42.62	-13.00	-29.62	Peak

Test channel:		661			Polarization	ו:	Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm		Remark
1	39.75	-80.81	27.74	1.15	30.61	-82.53	-13.00	-69.53	Peak
2	847.15	-80.07	29.80	5.96	29.33	-73.64	-13.00	-60.64	Peak
3	1360.17	-70.63	37.08	7.77	29.16	-54.94	-13.00	-41.94	Peak
4	2350.72	-70.92	40.09	10.62	28.26	-48.47	-13.00	-35.47	Peak
5	3757.21	-49.35	42.23	5.18	41.59	-43.53	-13.00	-30.53	Peak
6	5646.08	-55.09	43.79	6.55	40.75	-45.50	-13.00	-32.50	Peak
Test channel:		661		F	Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	82.02	-76.07	22.26	1.68	30.62	-82.75	-13.00	-69.75	Peak
2	850.14	-79.92	29.84	5.97	29.35	-73.46	-13.00	-60.46	Peak
3	1430.68	-71.12	37.76	7.99	28.98	-54.35	-13.00	-41.35	Peak
4	2237.33	-71.18	41.26	10.38	28.69	-48.23	-13.00	-35.23	Peak
5	3757.21	-51.40	42.15	5.18	41.59	-45.66	-13.00	-32.66	Peak
	5646.08	-50.46	43.95	6.55	40.75	-40.71	-13.00	-27.71	Peak

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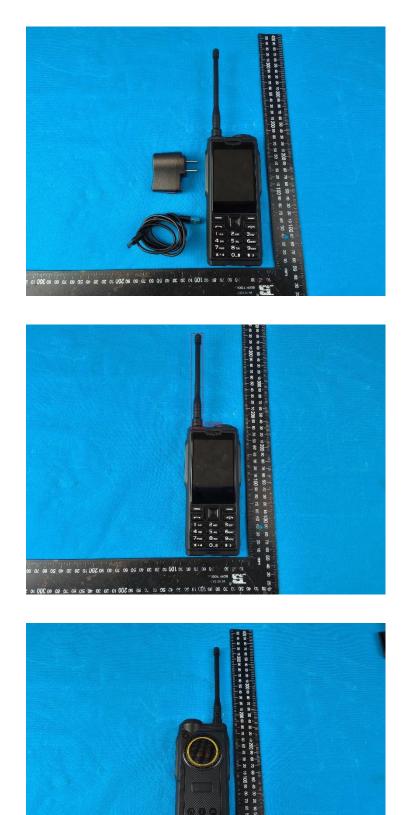
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Test channel:		810			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	88.93	-73.01	17.66	1.76	30.68	-84.27	-13.00	-71.27	Peak
2	853.13	-80.89	29.72	5.98	29.37	-74.56	-13.00	-61.56	Peak
3	1446.48	-70.63	36.87	8.05	28.83	-54.54	-13.00	-41.54	Peak
4	2232.42	-70.85	40.78	10.37	28.75	-48.45	-13.00	-35.45	Peak
5	3824.76	-56.37	42.07	5.32	41.55	-50.53	-13.00	-37.53	Peak
6	5732.97	-53.16	43.91	6.69	40.72	-43.28	-13.00	-30.28	Peak
Test channel:		810	0		Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	89.87	-81.09	25.83	1.77	30.69	-84.18	-13.00	-71.18	Peak
2	908.88	-80.54	29.82	6.19	29.43	-73.96	-13.00	-60.96	Peak
3	1533.21	-71.96	37.76	8.32	28.79	-54.67	-13.00	-41.67	Peak
4	2217.75	-69.74	41.51	10.30	29.00	-46.93	-13.00	-33.93	Peak
	3824.76	-55.77	41.96	5.32	41.55	-50.04	-13.00	-37.04	Peak
5	3024.70								



7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

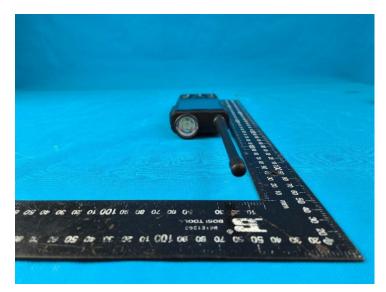
7.1. External photos



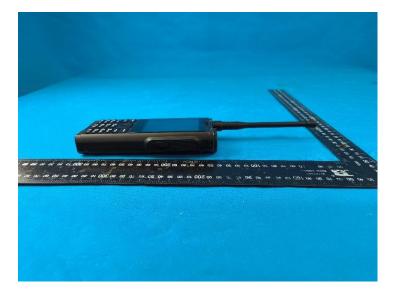
Shenzhen Huatongwei International Inspection Co., Ltd.

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7.2. Internal photos



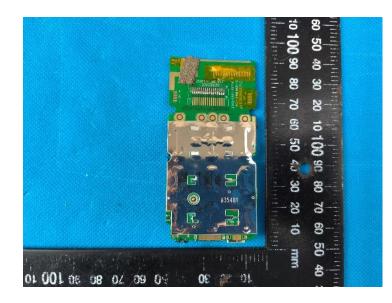


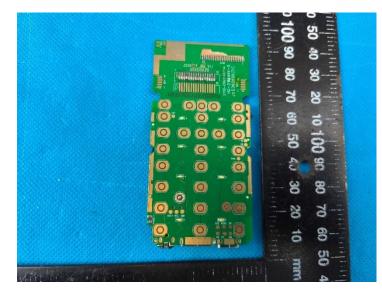


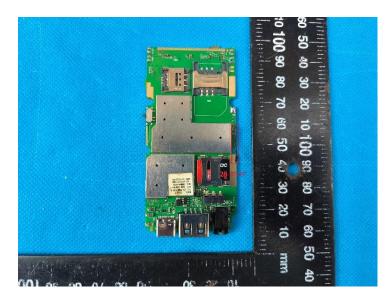
Shenzhen Huatongwei International Inspection Co., Ltd.

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8. APPENDIX REPORT