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FCC REPORT

Report Reference No.....:: CHTEW21010074 Report Verification

Project No..... SHT2101015601EW

FCC ID.....: 2ASWW-SE21814

Applicant's name.....: XINCHUANGXIN INTERNATIONAL CO.,LTD

ROOM 605 6/F, FA YUEN COMMERCIAL BUILDING, 75-77 FA Address....:

YUEN STREET MONGKOK KL

Test item description: Feature phone

Trade Mark: **CORN**

Model/Type reference..... M4

Listed Model(s): M3,M5,M6,M7

FCC CFR Title 47 Part 2 Standard::

FCC CFR Title 47 Part 22

FCC CFR Title 47 Part 24

Date of receipt of test sample..... Jan. 07, 2021

Date of testing..... Jan. 08, 2021- Jan. 14, 2021

Date of issue....: Jan. 15, 2021

Result....: Pass

Compiled by

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Testing Laboratory Name: Shenzhen Huatongwei International Inspection Co., Ltd.

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The test report merely correspond to the test sample.

Report No.: CHTEW21010074 Page: 2 of 29 Issued: 2021-01-15

Contents

<u> </u>	TEST STANDARDS AND REPORT VERSION	<u>3</u>
1.1.	Applicable Standards	3
1.2.	Report version information	3
<u>2.</u>	TEST DESCRIPTION	4
_		_
<u>3.</u>	SUMMARY	5
3.1.	Client Information	5
3.2.	Product Description	5
3.3.	Operation state	6
3.4.	EUT configuration	6
3.5.	Modifications	6
<u>4.</u>	TEST ENVIRONMENT	7
4.1.	Testing Laboratory Information	7
4.2.	Equipments Used during the Test	7
4.3.	Environmental conditions	8
4.4.	Statement of the measurement uncertainty	8
<u>5.</u>	TEST CONDITIONS AND RESULTS	9
5.1.	Conducted Output Power	9
5.2.	Peak-to-Average Ratio	10
5.3.	99% Occupied Bandwidth & 26 dB Bandwidth	11
5.4.	Band Edge	12
5.5.	Conducted Spurious Emissions	13
5.6.	Frequency stability VS Temperature measurement	14
5.7.	Frequency stability VS Voltage measurement	15
5.8.	ERP and EIRP	16
5.9.	Radiated Spurious Emission	19
<u>6.</u>	TEST SETUP PHOTOS OF THE EUT	23
<u>7.</u>	EXTERNAL AND INTERNAL PHOTOS OF THE EUT	24
8.	APPENDIX REPORT	29

Report No.: CHTEW21010074 Page: 3 of 29 Issued: 2021-01-15

1. TEST STANDARDS AND REPORT VERSION

1.1. Applicable Standards

The tests were performed according to following standards:

FCC Rules Part 2: FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS

FCC Rules Part 22: PUBLIC MOBILE SERVICES

FCC Rules Part 24: PERSONAL COMMUNICATIONS SERVICES

TIA/EIA 603 E March 2016: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

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	2021-01-15	Original

Report No.: CHTEW21010074 Page: 4 of 29 Issued: 2021-01-15

2. Test Description

Test Item	Section in CFR 47	Result	Test Engineer
Conducted Output Power	Part 2.1046 Part 22.913(a) Part 24.232(c)	Pass	Jiongsheng Feng
Peak-to-Average Ratio	Part 24.232	Pass	Jiongsheng Feng
99% Occupied Bandwidth & 26 dB Bandwidth	Part 2.1049 Part 22.917(b) Part 24.238(b)	Pass	Jiongsheng Feng
Band Edge	Part 2.1051 Part 22.917 Part 24.238	Pass	Jiongsheng Feng
Conducted Spurious Emissions	Part 2.1051 Part 22.917 Part 24.238	Pass	Jiongsheng Feng
Frequency stability VS Temperature	Part 2.1055(a)(1)(b) Part 22.355 Part 24.235	Pass	Jiongsheng Feng
Frequency stability VS Voltage	Part 2.1055(d)(1)(2) Part 22.355 Part 24.235	Pass	Jiongsheng Feng
ERP and EIRP	Part 22.913(a) Part 24.232(b)	Pass	Pan Xie
Radiated Spurious Emissions	Part 2.1053 Part 22.917 Part 24.238	Pass	Pan Xie

Note: The measurement uncertainty is not included in the test result.

Report No.: CHTEW21010074 Page: 5 of 29 Issued: 2021-01-15

3. **SUMMARY**

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

Name of EUT:	Feature phone				
Trade Mark:	CORN				
Model No.:	M4				
Listed Model(s):	M3,M5,M6,M7				
SIM Information:	Support Two SIM Card	d			
Power supply:	DC3.7V				
Adapter information:	Model:FSF-01 Input: AC100-240V, 50/60Hz, 0.15A Output: 5.0Vdc, 500mA				
Hardware version:	SE218_MB_V1.1				
Software version:	SE218_3232_9668_A15207S3_M4_CORN_EnFrSpPo_V02_20210113				
2G:					
Support Network:	GSM, GPRS				
Support Band:	GSM850, PCS1900				
Modulation:	GSM/GPRS:	GMSK			
Transmit Frequency:	GSM850:	824.20MHz-848.80MHz			
	PCS1900:	1850.20MHz-1909.80MHz			
Receive Frequency:	GSM850:	869.20MHz-893.80MHz			
	PCS1900:	1930.20MHz-1989.80MHz			
GPRS Multislot Class:	12				
EGPRS Multislot Class:	-				
Antenna type:	PIFA Antenna				
Antenna gain:	GSM850: -3.51dBi PCS1900: -0.11dBi				

Report No.: CHTEW21010074 Page: 6 of 29 Issued: 2021-01-15

3.3. Operation state

Test frequency list

GSN	1850	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	

> Test mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03 and ANSI C63.26-2015 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

30 MHz to 10th harmonic for GSM850, PCS1900.

The Test EUT support two SIM card(SIM1,SIM2),so all the tests are performed at each SIM card (SIM1,SIM2) mode, the datum recorded is the worst case for all the mode at SIM1 Card mode.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test modes								
Band Radiated Conducted								
GSM 850	■ GSM link ■ GPRS Class 8 link	■ GSM link ■ GPRS Class 8 link						
PCS 1900	■ GSM link ■ GPRS Class 8 link	■ GSM link ■ GPRS Class 8 link						

3.4. EUT configuration

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

supplied by the manufacturer

supplied by the lab

	/	Manufacturer:	/
0	/	Model No.:	/
		Manufacturer:	/
0	/	Model No.:	/

3.5. Modifications

No modifications were implemented to meet testing criteria.

Report No.: CHTEW21010074 Page: 7 of 29 Issued: 2021-01-15

4. TEST ENVIRONMENT

4.1. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.			
Laboratory Location	1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China			
Connect information:	Tel: 86-755-26715499 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn			
Qualifications	Туре	Accreditation Number		
Qualifications	FCC	762235		

4.2. Equipments Used during the Test

Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Signal and spectrum Analyzer	R&S	HTWE0242	FSV40	100048	2020/10/19	2021/10/18
•	Signal & Spectrum Analyzer	R&S	HTWE0262	FSW26	103440	2020/10/19	2021/10/18
•	Spectrum Analyzer	Agilent	HTWE0286	N9020A	MY50510187	2020/10/19	2021/10/18
•	Radio communication tester	R&S	HTWE0287	CMW500	137688-Lv	2020/10/19	2021/10/18
•	Test software	Tonscend	N/A	JS1120	N/A	N/A	N/A

•	Radiated Spu	rious 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	N/A	2018/09/27	2021/09/26
•	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2020/10/20	2021/10/19
•	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2018/04/02	2021/04/01
•	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2018/10/12	2021/10/11
•	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2018/04/04	2021/04/03
•	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
•	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2020/11/12	2021/11/11
•	Broadband Preamplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120- 01	6m 18GHz S Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120- 02	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120- 03	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120- 04	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0121- 01	6m 18GHz S Serisa	N/A	2020/05/10	2021/05/09
•	EMI Test Software	Audix	N/A	E3	N/A	N/A	N/A

Report No.: CHTEW21010074 Page: 8 of 29 Issued: 2021-01-15

Auxiliary Equipment									
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	HTWE0254	GPL-2	N/A	2020/10/21	2021/10/20		
•	DC Power Supply	Gwinstek	HTWE0274	SPS-2415	GER835793	N/A	N/A		

4.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

	VN=Nominal Voltage	DC 3.70V
Voltage	VL=Lower Voltage	DC 3.60V
	VH=Higher Voltage	DC 4.20V
Tomporoturo	TN=Normal Temperature	25 °C
Temperature	Extreme Temperature	From −30° to + 50° centigrade
Humidity	30~60 %	
Air Pressure	950-1050 hPa	

4.4. 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 Huatongwei International Inspection 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 Huatongwei laboratory is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.51 dB	(1)
Transmitter power Radiated	2.66dB for <1GHz 3.44dB for >1GHz	(1)
Conducted spurious emissions 9kHz~40GHz	0.51 dB	(1)
Radiated spurious emissions	2.66dB for <1GHz 3.44dB for >1GHz	(1)
Occupied Bandwidth	15Hz for <1GHz 70Hz for >1GHz	(1)
Frequency error	15Hz for <1GHz 70Hz for >1GHz	(1)

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

Report No.: CHTEW21010074 Page: 9 of 29 Issued: 2021-01-15

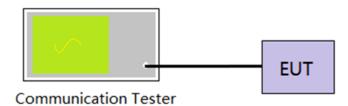
5. TEST CONDITIONS AND RESULTS

5.1. Conducted Output Power

<u>LIMIT</u>

N/A

TEST CONFIGURATION



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 3.3

TEST RESULTS

Refer to appendix A on the section 8 appendix report

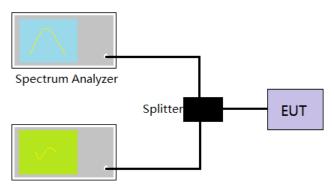
Report No.: CHTEW21010074 Page: 10 of 29 Issued: 2021-01-15

5.2. Peak-to-Average Ratio

LIMIT

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 3.3

TEST RESULTS

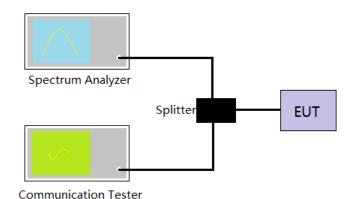
Refer to appendix B on the section 8 appendix report

Report No.: CHTEW21010074 Page: 11 of 29 Issued: 2021-01-15

5.3. 99% Occupied Bandwidth & 26 dB Bandwidth

LIMIT N/A

TEST CONFIGURATION



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 3.3

TEST RESULTS

Refer to appendix C on the section 8 appendix report

Report No.: CHTEW21010074 Page: 12 of 29 Issued: 2021-01-15

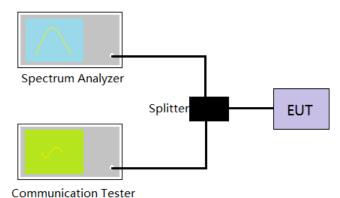
5.4. Band Edge

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 rester

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.
- Spectrum analyzer setting as follow:
 RBW=3KHz, VBW = 10KHz, Sweep time= Auto
- 5. Record the test plot.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Refer to appendix D on the section 8 appendix report

Report No.: CHTEW21010074 Page: 13 of 29 Issued: 2021-01-15

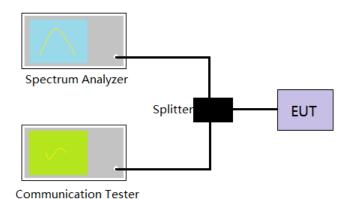
5.5. Conducted Spurious Emissions

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



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:

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 3.3

TEST RESULTS

Refer to appendix E on the section 8 appendix report

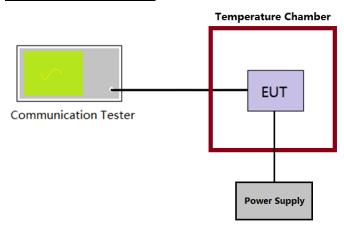
Report No.: CHTEW21010074 Page: 14 of 29 Issued: 2021-01-15

5.6. Frequency stability VS Temperature 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.
- 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 3.3

TEST RESULTS

Refer to appendix F on the section 8 appendix report

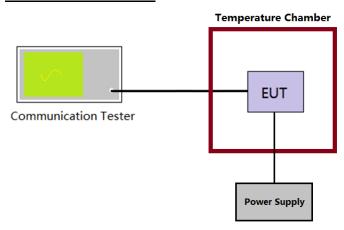
Report No.: CHTEW21010074 Page: 15 of 29 Issued: 2021-01-15

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
- 4. 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 3.3

TEST RESULTS

Refer to appendix F on the section 8 appendix report

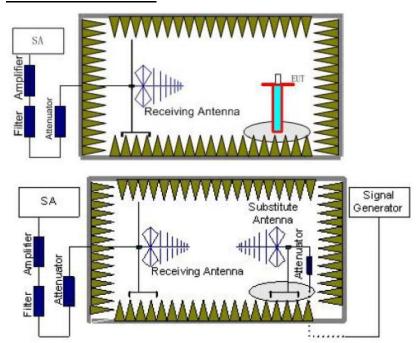
Report No.: CHTEW21010074 Page: 16 of 29 Issued: 2021-01-15

5.8. ERP and EIRP

LIMIT

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

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.
- 2. 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.
- 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
 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

Report No.: CHTEW21010074 Page: 17 of 29 Issued: 2021-01-15

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.

T	ES	T	VI (OE	E:
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Please refer to the clause 3.3

TEST	RES	UL1	ſS
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N D	□ Nat Assults at ta
⊠ Passed	■ Not Applicable

Report No.: CHTEW21010074 Page: 18 of 29 Issued: 2021-01-15

Mode	Channel	Antenna Pol.	ERP	Limit (dBm)	Result
	128	V	18.92		
	120	Н	25.88		Pass
GSM850	190	V	18.67	<38.45	
GSIVIOSU	190	Н	26.31	<30.45	
	054	V	17.87		
	251	Н	24.78		
	120	V	19.71		
	128	Н	26.32		
GPRS850	190	V	18.43	<38.45	Door
GPK3030	190	Н	26.52	<30.45	Pass
	251	V	19.04		
	251	Н	25.12		

Mode	Channel	Antenna Pol.	EIRP	Limit (dBm)	Result
	512	V	22.63		
	312	Н	19.81		
PCS1900	661	V	23.38	-22.00	Pass
PC51900	661	Н	19.67	<33.00	
	04.0	V	24.37		
	810	Н	19.39		
	540	V	23.12		
	512	Н	20.48		
GPRS1900	661	V	24.03	<33.00	Pass
GPR31900	661	Н	19.84	<33.00	Pass
	940	V	24.20		
	810	Н	20.36		

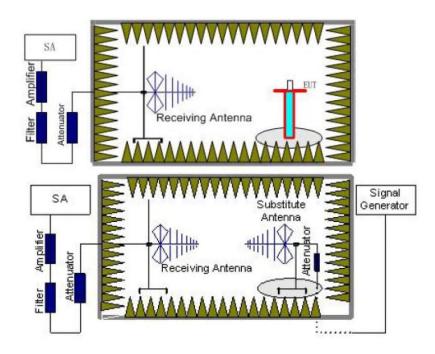
Report No.: CHTEW21010074 Page: 19 of 29 Issued: 2021-01-15

5.9. Radiated Spurious Emission

<u>LIMIT</u>

-13dBm

TEST CONFIGURATION



TEST PROCEDURE

- 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.
- 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
 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.
- 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

Report No.: CHTEW21010074 Page: 20 of 29 Issued: 2021-01-15

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	M	O	DE	:
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Please refer to the clause 3.3

TEST RESULTS

Note: Worst case at GSM850/PCS1900

Report No.: CHTEW21010074 Page: 21 of 29 Issued: 2021-01-15

Channel: 251					Polariz	zation: Hori	zontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	40.78	-69.17	28.00	6.56	30.87	-65.48	-13.00	-52.48	Peak
2	693.46	-72.81	28.35	9.25	31.48	-66.69	-13.00	-53.69	Peak
3	1697.47	-51.54	36.34	11.70	29.08		-13.00	-19.58	Peak
4	3390.00	-64.40	39.67	9.15		-52.42	-13.00	-39.42	Peak
5		-68.62	44.40	12.60		-46.66	-13.00	-33.66	Peak
6	6792.75	-74.51	46.73	13.67	34.28	-48.39	-13.00	-35.39	Peak
Channel: 251					Polariz	zation: Vert	ical		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	0ver	Remark
ridi K	MHz	dBm	dB	dB	dB	dBm	dBm	limit	Kellidi K
1	41.76	-62.59	21.62	6.57		-65.28	-13.00	-52.28	Peak
2	693.46	-70.03	28.74	9.25	31.48	-63.52	-13.00		Peak
3	1697.47	-48.48	36.23	11.70		-29.63	-13.00		Peak
4	4238.25	-65.10	42.62	10.42		-48.15	-13.00	-35.15	Peak
5	5944.50	-66.49	44.58	12.60	35.04	-44.35	-13.00	-31.35	Peak
6	8489.25	-71.75	47.66	14.97	35.20	-44.32	-13.00	-31.32	Peak
Channel: 190					Polariz	zation: Hori	zontal		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
Mark	MHz	dBm	dB	dB	dB	dBm	dBm	limit	Kemark
1	40.78	-72.96	28.00	6.56		-69.31		-56.31	Peak
2	624.86	-78.35	28.82	9.04		-70.35		-57.35	Peak
3		-50.27	36.25	11.68		-30.11		-17.11	Peak
4	33/1 25	-65 05	40.09	9.08		-52.81		-39.81	Peak
5	4179.75	-66.98	42.18	10.22		-50.83		-37.83	Peak
6	5856.75	-67.06	44.16	12.47		-45.34		-32.34	Peak
Channel: 190					Polariz	zation: Vert	ical		
Mark	Frequency	Reading	Antenna		Preamp		Limit	0ver	Remark
4	MHz	dBm	dB	dB	dB	dBm	dBm	limit	Da-I.
1 2	41.76 479.82	-68.97	21.62	6.57		-71.69	-13.00	-58.69	Peak Peak
3		-76.23	26.63 36.17	8.57		-71.03 -27.12	-13.00	-58.03 -14.12	Peak
4	1673.35 4179.75	-47.20 -65.40	42.43	11.68 10.22	27.77 36.25	-49.00	-13.00 -13.00	-36.00	Peak
5	5856.75	-71.33	44.31	12.47		-49.46	-13.00	-36.46	Peak
6	6695.25	-71.97	47.13	13.78	34.48	-45.54	-13.00	-30.46	Peak
_	0095.25	-/1.9/	47.13	15.76				-32.34	PEAK
Channel: 128					Polariz	zation: Hori	zontal		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	MHz	dBm	dB	dB	dB .	dBm	dBm	limit	
1	38.82	-73.90	28.61	6.55	30.92	-69.66	-13.00	-56.66	Peak
2	632.70	-79.59	29.04	9.07	29.85	-71.33	-13.00	-58.33	Peak
3	1648.00	-52.66	36.15	11.67	27.98	-32.82	-13.00	-19.82	Peak
4	3292.50	-67.51	40.53	9.00	36.83	-54.81	-13.00	-41.81	Peak
5	4121.25	-60.91	41.87	10.21	36.28	-45.11	-13.00		Peak
6	6597.75	-72.89	46.48	13.19	34.59	-47.81	-13.00	-34.81	Peak
Channel: 128					Polariz	zation: Vert	ical		
Mark	Frequency	Reading	Antenna	Cable	Preamn	Level	Limit	0ver	Remark
nark	MHz	dBm	dB	dB	dB	dBm	dBm	limit	Nemal N
1	89.78	-78.23	28.20	6.92	ав 30.76	-73.87	-13.00		Peak
2	479.82	-70.23 -77.99	26.63	8.57	30.76	-73.67	-13.00		Peak
3	1648.00	-49.84	36.11	11.67	27.98	-72.79	-13.00		Peak
4	3292.50	-49.84 -65.79	40.58	9.00	36.83	-50.04	-13.00		Peak Peak
5	4121.25	-64.63	42.14	10.21		-48.56	-13.00		Peak
6	6597.75	-73.55	46.88	13.19	34.59		-13.00		Peak
			.5.50		2 33		20,00	22.07	

Remark:

- The emission behaviour belongs to narrowband spurious emission.

 The emission levels of not record in the report are very lower than the limit and not show in test report. 2.

Report No.: CHTEW21010074 Page: 22 of 29 Issued: 2021-01-15

Channel: 810					Polariz	zation: Hori	zontal		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	0ver	Remark
Hark	MHz	dBm	dB	dB	dB	dBm	dBm	limit	Kelliul K
1	39.19	-73.15	28.60	6.55	30.92	-68.92	-13.00	-55.92	Peak
2	416.36	-77.73	25.94	8.36	30.12	-73.55	-13.00	-60.55	Peak
3	1754.00	-67.45	36.55	11.75	26.78	-45.93	-13.00	-32.93	Peak
4	3819.00	-43.92	42.10	9.86	36.99	-28.95	-13.00	-15.95	Peak
5	5730.00	-53.04	43.90	12.42	34.86	-31.58	-13.00	-18.58	Peak
6	9552.00	-74.04	49.86	15.38	36.98	-45.78	-13.00	-32.78	Peak
Channel: 810					Polariz	ation: Vert	ical		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	MHz	dBm	dB	dB	dB	dBm	dBm	limit	Darel.
1 2	36.66 400.56	-69.29 -76.95	21.49 26.03	6.52 8.32		-72.20 -72.69	-13.00	-59.20	Peak
3	1374.00	-69.21	37.65	12.57		-47.92	-13.00 -13.00	-59.69 -34.92	Peak Peak
4	3819.00	-45.38	41.97	9.86		-30.54	-13.00	-17.54	Peak
5	5730.00	-56.73	44.05	12.42		-35.12		-22.12	Peak
6	7641.00	-74.04	48.31	14.69		-44.21	-13.00	-31.21	Peak
	7041.00	-74.04	40.31	14.05				31.21	reak
Channel: 661					Polariz	ation: Hori	zontal		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	MHz	dBm	dB	dB	dB	dBm	dBm	limit	
1	39.19	-72.71	28.60	6.55		-68.40	-13.00	-55.40	Peak
2	186.10	-73.30	22.64	7.45		-73.65	-13.00	-60.65	Peak
3	1324.45	-69.16	37.01	12.83	29.32	-48.64	-13.00	-35.64	Peak
4	3759.38	-43.69	42.23	9.82	37.13	-28.77	-13.00	-15.77	Peak
5	5640.10	-55.99	43.78	12.46	35.00	-34.75	-13.00	-21.75	Peak
6	7517.07	-67.87	48.01	14.21	33.80	-39.45	-13.00	-26.45	Peak
Channel: 661					Polariz	ation: Vert	ical		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	0ver	Remark
	MHz	dBm	dB 21.63	dB	dB	dBm	dBm	limit	5 1
			21 63	6.57	30.88	-70.26	-13.00	-57.26	Peak
1	41.75	-67.58					43 00		B 1
2	41.75 480.93	-77.40	26.63	8.57	30.72	-72.92	-13.00	-59.92	Peak
2	41.75 480.93 1414.97	-77.40 -69.50	26.63 37.76	8.57 12.33	30.72 29.10	-48.51	-13.00	-35.51	Peak
2 3 4	41.75 480.93 1414.97 3759.38	-77.40 -69.50 -47.25	26.63 37.76 42.14	8.57 12.33 9.82	30.72 29.10 37.13	-48.51 -32.42	-13.00 -13.00	-35.51 -19.42	Peak Peak
2 3 4 5	41.75 480.93 1414.97 3759.38 5640.10	-77.40 -69.50 -47.25 -52.55	26.63 37.76 42.14 43.95	8.57 12.33 9.82 12.46	30.72 29.10 37.13 35.00	-48.51 -32.42 -31.14	-13.00 -13.00 -13.00	-35.51 -19.42 -18.14	Peak Peak Peak
2 3 4	41.75 480.93 1414.97 3759.38	-77.40 -69.50 -47.25	26.63 37.76 42.14	8.57 12.33 9.82	30.72 29.10 37.13	-48.51 -32.42	-13.00 -13.00	-35.51 -19.42	Peak Peak
2 3 4 5	41.75 480.93 1414.97 3759.38 5640.10	-77.40 -69.50 -47.25 -52.55	26.63 37.76 42.14 43.95	8.57 12.33 9.82 12.46	30.72 29.10 37.13 35.00 33.80	-48.51 -32.42 -31.14	-13.00 -13.00 -13.00 -13.00	-35.51 -19.42 -18.14	Peak Peak Peak
2 3 4 5 6 Channel: 512	41.75 480.93 1414.97 3759.38 5640.10 7517.07	-77.40 -69.50 -47.25 -52.55 -65.32	26.63 37.76 42.14 43.95 48.39	8.57 12.33 9.82 12.46 14.21	30.72 29.10 37.13 35.00 33.80 Polariz	-48.51 -32.42 -31.14 -36.52 zation: Hori	-13.00 -13.00 -13.00 -13.00 zontal	-35.51 -19.42 -18.14 -23.52	Peak Peak Peak Peak
2 3 4 5 6	41.75 480.93 1414.97 3759.38 5640.10 7517.07	-77.40 -69.50 -47.25 -52.55 -65.32	26.63 37.76 42.14 43.95 48.39	8.57 12.33 9.82 12.46 14.21	30.72 29.10 37.13 35.00 33.80 Polariz	-48.51 -32.42 -31.14 -36.52 ration: Hori	-13.00 -13.00 -13.00 -13.00 zontal	-35.51 -19.42 -18.14 -23.52 Over	Peak Peak Peak
2 3 4 5 6 Channel: 512	41.75 480.93 1414.97 3759.38 5640.10 7517.07	-77.40 -69.50 -47.25 -52.55 -65.32 Reading	26.63 37.76 42.14 43.95 48.39 Antenna dB	8.57 12.33 9.82 12.46 14.21 Cable	30.72 29.10 37.13 35.00 33.80 Polariz	-48.51 -32.42 -31.14 -36.52 eation: Hori	-13.00 -13.00 -13.00 -13.00 -13.00 zontal	-35.51 -19.42 -18.14 -23.52 Over limit	Peak Peak Peak Peak Remark
2 3 4 5 6 Channel: 512	41.75 480.93 1414.97 3759.38 5640.10 7517.07 Frequency MHz 38.64	-77.40 -69.50 -47.25 -52.55 -65.32 	26.63 37.76 42.14 43.95 48.39 Antenna dB 28.61	8.57 12.33 9.82 12.46 14.21 Cable dB 6.54	30.72 29.10 37.13 35.00 33.80 Polariz Preamp dB 30.92	-48.51 -32.42 -31.14 -36.52 zation: Hori 	-13.00 -13.00 -13.00 -13.00 zontal Limit dBm -13.00	-35.51 -19.42 -18.14 -23.52 Over limit -55.75	Peak Peak Peak Peak Remark
2 3 4 5 6 Channel: 512	41.75 480.93 1414.97 3759.38 5640.10 7517.07 Frequency MHz 38.64 800.80	-77.40 -69.50 -47.25 -52.55 -65.32 Reading dBm -72.98 -78.59	26.63 37.76 42.14 43.95 48.39 Antenna dB 28.61 29.96	8.57 12.33 9.82 12.46 14.21 Cable dB 6.54 9.56	30.72 29.10 37.13 35.00 33.80 Polariz Preamp dB 30.92 29.43	-48.51 -32.42 -31.14 -36.52 zation: Hori 	-13.00 -13.00 -13.00 -13.00 zontal Limit dBm -13.00 -13.00	-35.51 -19.42 -18.14 -23.52 Over limit -55.75 -55.50	Peak Peak Peak Peak Remark Peak
2 3 4 5 6 Channel: 512	41.75 480.93 1414.97 3759.38 5640.10 7517.07 Frequency MHz 38.64 800.80 1322.70	-77.40 -69.50 -47.25 -52.55 -65.32 Reading dBm -72.98 -78.59 -69.98	26.63 37.76 42.14 43.95 48.39 Antenna dB 28.61 29.96 37.00	8.57 12.33 9.82 12.46 14.21 Cable dB 6.54 9.56 12.84	30.72 29.10 37.13 35.00 33.80 Polariz Preamp dB 30.92 29.43 28.97	-48.51 -32.42 -31.14 -36.52 cation: Hori 	-13.00 -13.00 -13.00 -13.00 zontal Limit dBm -13.00 -13.00 -13.00	-35.51 -19.42 -18.14 -23.52 Over limit -55.75 -55.50 -36.11	Peak Peak Peak Peak Remark Peak Peak Peak Peak
2 3 4 5 6 Channel: 512	41.75 480.93 1414.97 3759.38 5640.10 7517.07 Frequency MHz 38.64 800.80 1322.70 3700.15	-77.40 -69.50 -47.25 -52.55 -65.32 Reading dBm -72.98 -78.59 -69.98 -41.14	26.63 37.76 42.14 43.95 48.39 Antenna dB 28.61 29.96 37.00 42.29	8.57 12.33 9.82 12.46 14.21 Cable dB 6.54 9.56 12.84 9.79	30.72 29.10 37.13 35.00 33.80 Polariz Preamp dB 30.92 29.43 28.97 37.05	-48.51 -32.42 -31.14 -36.52 zation: Hori Level dBm -68.75 -68.50 -49.11 -26.11	-13.00 -13.00 -13.00 -13.00 zontal Limit dBm -13.00 -13.00 -13.00 -13.00	-35.51 -19.42 -18.14 -23.52 Over limit -55.75 -55.50 -36.11 -13.11	Peak Peak Peak Peak Remark Peak Peak Peak Peak Peak Peak
2 3 4 5 6 Channel: 512	41.75 480.93 1414.97 3759.38 5640.10 7517.07 Frequency MHz 38.64 800.80 1322.70	-77.40 -69.50 -47.25 -52.55 -65.32 Reading dBm -72.98 -78.59 -69.98	26.63 37.76 42.14 43.95 48.39 Antenna dB 28.61 29.96 37.00	8.57 12.33 9.82 12.46 14.21 Cable dB 6.54 9.56 12.84	30.72 29.10 37.13 35.00 33.80 Polariz Preamp dB 30.92 29.43 28.97 37.05 35.25	-48.51 -32.42 -31.14 -36.52 cation: Hori 	-13.00 -13.00 -13.00 -13.00 zontal Limit dBm -13.00 -13.00 -13.00	-35.51 -19.42 -18.14 -23.52 Over limit -55.75 -55.50 -36.11 -13.11 -19.06	Peak Peak Peak Peak Remark Peak Peak Peak Peak
2 3 4 5 6 Channel: 512 Mark 1 2 3 4 5	41.75 480.93 1414.97 3759.38 5640.10 7517.07 Frequency MHz 38.64 800.80 1322.70 3700.15 5551.25	-77.40 -69.50 -47.25 -52.55 -65.32 Reading dBm -72.98 -78.59 -69.98 -41.14 -52.81	26.63 37.76 42.14 43.95 48.39 Antenna dB 28.61 29.96 37.00 42.29 43.81	8.57 12.33 9.82 12.46 14.21 Cable dB 6.54 9.56 12.84 9.79 12.19	30.72 29.10 37.13 35.00 33.80 Polariz Preamp dB 30.92 29.43 28.97 37.05 35.25 34.01	-48.51 -32.42 -31.14 -36.52 zation: Hori Level dBm -68.75 -68.50 -49.11 -26.11 -32.06	-13.00 -13.00 -13.00 -13.00 zontal Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00 -13.00	-35.51 -19.42 -18.14 -23.52 Over limit -55.75 -55.50 -36.11 -13.11 -19.06	Peak Peak Peak Peak Remark Peak Peak Peak Peak Peak Peak Peak
2 3 4 5 6 Channel: 512 Mark 1 2 3 4 5 6	41.75 480.93 1414.97 3759.38 5640.10 7517.07 Frequency MHz 38.64 800.80 1322.70 3700.15 5551.25	-77.40 -69.50 -47.25 -52.55 -65.32 Reading dBm -72.98 -78.59 -69.98 -41.14 -52.81	26.63 37.76 42.14 43.95 48.39 Antenna dB 28.61 29.96 37.00 42.29 43.81	8.57 12.33 9.82 12.46 14.21 Cable dB 6.54 9.56 12.84 9.79 12.19	30.72 29.10 37.13 35.00 33.80 Polariz Preamp dB 30.92 29.43 28.97 37.05 35.25 34.01	-48.51 -32.42 -31.14 -36.52 ration: Hori 	-13.00 -13.00 -13.00 -13.00 zontal Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00 -13.00	-35.51 -19.42 -18.14 -23.52 Over limit -55.75 -55.50 -36.11 -13.11 -19.06	Peak Peak Peak Peak Remark Peak Peak Peak Peak Peak Peak Peak
2 3 4 5 6 Channel: 512 	41.75 480.93 1414.97 3759.38 5640.10 7517.07 Frequency MHz 38.64 800.80 1322.70 3700.15 5551.25	-77.40 -69.50 -47.25 -52.55 -65.32 Reading dBm -72.98 -78.59 -69.98 -41.14 -52.81 -68.70	26.63 37.76 42.14 43.95 48.39 Antenna dB 28.61 29.96 37.00 42.29 43.81	8.57 12.33 9.82 12.46 14.21 Cable dB 6.54 9.56 12.84 9.79 12.19 14.37	30.72 29.10 37.13 35.00 33.80 Polariz Preamp dB 30.92 29.43 28.97 37.05 35.25 34.01	-48.51 -32.42 -31.14 -36.52 ration: Hori 	-13.00 -13.00 -13.00 -13.00 zontal Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00 -13.00	-35.51 -19.42 -18.14 -23.52 Over limit -55.75 -55.50 -36.11 -13.11 -19.06	Peak Peak Peak Peak Remark Peak Peak Peak Peak Peak Peak Peak
2 3 4 5 6 Channel: 512 Mark 1 2 3 4 5 6 Channel: 512	41.75 480.93 1414.97 3759.38 5640.10 7517.07 Frequency MHz 38.64 800.80 1322.70 3700.15 5551.25 7398.65	-77.40 -69.50 -47.25 -52.55 -65.32 Reading dBm -72.98 -78.59 -69.98 -41.14 -52.81 -68.70	26.63 37.76 42.14 43.95 48.39 Antenna dB 28.61 29.96 37.00 42.29 43.81 48.55	8.57 12.33 9.82 12.46 14.21 Cable dB 6.54 9.56 12.84 9.79 12.19 14.37	30.72 29.10 37.13 35.00 33.80 Polariz Preamp dB 30.92 29.43 28.97 37.05 35.25 34.01 Polariz	-48.51 -32.42 -31.14 -36.52 ration: Hori 	-13.00 -13.00 -13.00 -13.00 zontal Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00 -13.00 -13.00	-35.51 -19.42 -18.14 -23.52 Over limit -55.75 -55.50 -36.11 -13.11 -19.06 -26.79	Peak Peak Peak Peak Remark Peak Peak Peak Peak Peak Peak Peak Pea
2 3 4 5 6 Channel: 512 Mark 1 2 3 4 5 6 Channel: 512	41.75 480.93 1414.97 3759.38 5640.10 7517.07 Frequency MHz 38.64 800.80 1322.70 3700.15 5551.25 7398.65	-77.40 -69.50 -47.25 -52.55 -65.32 Reading dBm -72.98 -78.59 -69.98 -41.14 -52.81 -68.70	26.63 37.76 42.14 43.95 48.39 Antenna dB 28.61 29.96 37.00 42.29 43.81 48.55	8.57 12.33 9.82 12.46 14.21 Cable dB 6.54 9.56 12.84 9.79 12.19 14.37	30.72 29.10 37.13 35.00 33.80 Polariz Preamp dB 30.92 29.43 28.97 37.05 35.25 34.01 Polariz	-48.51 -32.42 -31.14 -36.52 zation: Hori Level dBm -68.75 -68.50 -49.11 -26.11 -32.06 -39.79 zation: Vert	-13.00 -13.00 -13.00 -13.00 zontal Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00 -13.00 ical	-35.51 -19.42 -18.14 -23.52 Over limit -55.75 -55.50 -36.11 -13.11 -19.06 -26.79	Peak Peak Peak Peak Remark Peak Peak Peak Peak Peak Peak Peak Pea
2 3 4 5 6 Channel: 512 Mark	41.75 480.93 1414.97 3759.38 5640.10 7517.07 Frequency MHz 38.64 800.80 1322.70 3700.15 5551.25 7398.65	-77.40 -69.50 -47.25 -52.55 -65.32 Reading dBm -72.98 -78.59 -69.98 -41.14 -52.81 -68.70	26.63 37.76 42.14 43.95 48.39 Antenna dB 28.61 29.96 37.00 42.29 43.81 48.55	8.57 12.33 9.82 12.46 14.21 Cable dB 6.54 9.56 12.84 9.79 12.19 14.37	30.72 29.10 37.13 35.00 33.80 Polariz Preamp dB 30.92 29.43 28.97 37.05 35.25 34.01 Polariz Preamp dB 30.69	-48.51 -32.42 -31.14 -36.52 zation: Hori Level dBm -68.75 -68.50 -49.11 -26.11 -32.06 -39.79 zation: Vert	-13.00 -13.00 -13.00 -13.00 zontal Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00 ical Limit dBm	-35.51 -19.42 -18.14 -23.52 Over limit -55.75 -55.50 -36.11 -19.06 -26.79 Over limit -58.78	Peak Peak Peak Peak Remark Peak Peak Peak Peak Peak Peak Peak Pe
2 3 4 5 6 Channel: 512 Mark	41.75 480.93 1414.97 3759.38 5640.10 7517.07 Frequency MHz 38.64 800.80 1322.70 3700.15 5551.25 7398.65	-77.40 -69.50 -47.25 -52.55 -65.32 Reading dBm -72.98 -78.59 -69.98 -41.14 -52.81 -68.70 Reading dBm -73.76	26.63 37.76 42.14 43.95 48.39 Antenna dB 28.61 29.96 37.00 42.29 43.81 48.55 Antenna dB 25.69	8.57 12.33 9.82 12.46 14.21 Cable dB 6.54 9.56 12.84 9.79 12.19 14.37	30.72 29.10 37.13 35.00 33.80 Polariz Preamp dB 30.92 29.43 28.97 37.05 35.25 34.01 Polariz Preamp dB 30.69	-48.51 -32.42 -31.14 -36.52 ration: Hori Level dBm -68.75 -68.50 -49.11 -26.11 -32.06 -39.79 ration: Vert Level dBm -71.78 -67.54	-13.00 -13.00 -13.00 -13.00 zontal Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00 -13.00 -13.00 -13.00 -13.00	-35.51 -19.42 -18.14 -23.52 Over limit -55.75 -55.50 -36.11 -13.11 -19.06 -26.79 Over limit -58.78 -54.54	Peak Peak Peak Peak Remark Peak Peak Peak Peak Peak Peak Peak Pea
2 3 4 5 6 Channel: 512 Mark 1 2 3 4 5 6 Channel: 512	41.75 480.93 1414.97 3759.38 5640.10 7517.07 Frequency MHz 38.64 800.80 1322.70 3700.15 5551.25 7398.65 Frequency MHz 98.47 470.89	-77.40 -69.50 -47.25 -52.55 -65.32 Reading dBm -72.98 -78.59 -69.98 -41.14 -52.81 -68.70 Reading dBm -73.76 -72.03	26.63 37.76 42.14 43.95 48.39 Antenna dB 28.61 29.96 37.00 42.29 43.81 48.55 Antenna dB 25.69 26.01	8.57 12.33 9.82 12.46 14.21 Cable dB 6.54 9.56 12.84 9.79 12.19 14.37 Cable dB 6.98 8.55	30.72 29.10 37.13 35.00 33.80 Polariz Preamp dB 30.92 29.43 28.97 37.05 35.25 34.01 Polariz Preamp dB 30.69 30.69 30.07	-48.51 -32.42 -31.14 -36.52 ration: Hori -68.75 -68.75 -68.50 -49.11 -26.11 -32.06 -39.79 ration: Vert Level dBm -71.78 -67.54 -47.86	-13.00 -13.00 -13.00 -13.00 zontal Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00 ical Limit dBm -13.00	-35.51 -19.42 -18.14 -23.52 Over limit -55.75 -55.50 -36.11 -13.11 -19.06 -26.79 Over limit -58.78 -34.54 -34.86	Peak Peak Peak Peak Remark Peak Peak Peak Peak Peak Peak Peak Pea
2 3 4 5 6 Channel: 512 Mark 1 2 3 4 5 6 Channel: 512	41.75 480.93 1414.97 3759.38 5640.10 7517.07 Frequency MHz 38.64 800.80 1322.70 3700.15 5551.25 7398.65 Frequency MHz 98.47 470.89 1315.49	-77.40 -69.50 -47.25 -52.55 -65.32 Reading dBm -72.98 -78.59 -69.98 -41.14 -52.81 -68.70 Reading dBm -73.76 -72.03 -69.16	26.63 37.76 42.14 43.95 48.39 Antenna dB 28.61 29.96 37.00 42.29 43.81 48.55 Antenna dB 25.69 26.01 37.39	8.57 12.33 9.82 12.46 14.21 Cable dB 6.54 9.56 12.84 9.79 12.19 14.37 Cable dB 6.98 8.55 12.88	30.72 29.10 37.13 35.00 33.80 Polariz Preamp dB 30.92 29.43 28.97 37.05 35.25 34.01 Polariz Preamp dB 30.69 30.69 30.07 28.97	-48.51 -32.42 -31.14 -36.52 ration: Hori -68.75 -68.75 -68.50 -49.11 -26.11 -32.06 -39.79 ration: Vert Level dBm -71.78 -67.54 -47.86	-13.00 -13.00 -13.00 -13.00 zontal Limit dBm -13.00 -13.00 -13.00 -13.00 -13.00 ical Limit dBm -13.00 -13.00 -13.00 -13.00	-35.51 -19.42 -18.14 -23.52 Over limit -55.75 -55.50 -36.11 -13.11 -19.06 -26.79 Over limit -58.78 -34.54 -34.86	Peak Peak Peak Peak Remark Peak Peak Peak Peak Peak Peak Peak Pea

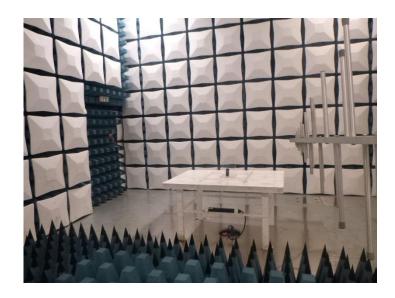
Remark:

- 1. The emission behaviour belongs to narrowband spurious emission.
- 2. The emission levels of not record in the report are very lower than the limit and not show in test report.

Report No.: CHTEW21010074 Page: 23 of 29 Issued: 2021-01-15

6. TEST SETUP PHOTOS OF THE EUT

Radiated emission:





Report No.: CHTEW21010074 Page: 24 of 29 Issued: 2021-01-15

7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

External photos of the EUT

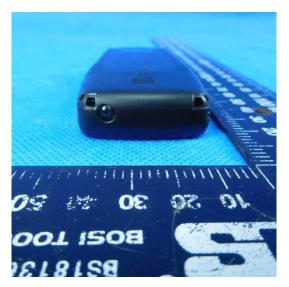


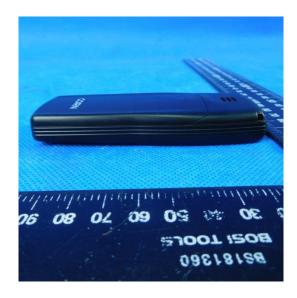




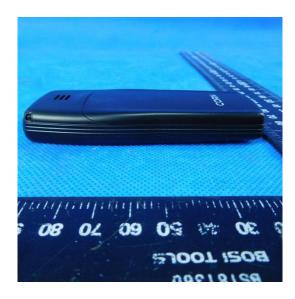
Report No.: CHTEW21010074 Page: 25 of 29 Issued: 2021-01-15

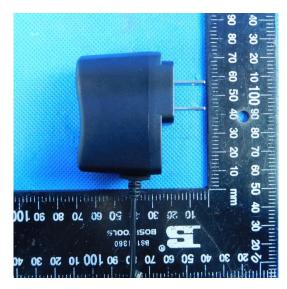


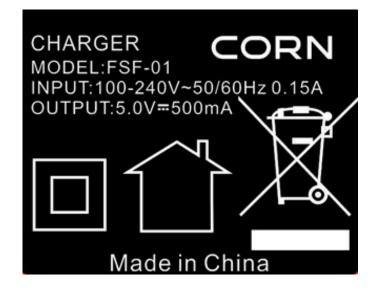




Report No.: CHTEW21010074 Page: 26 of 29 Issued: 2021-01-15







Report No.: CHTEW21010074 Page: 27 of 29 Issued: 2021-01-15

Internal photos of the EUT



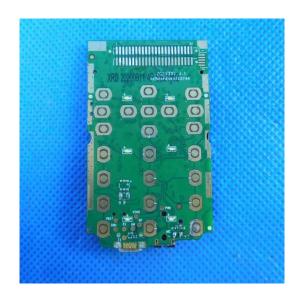




Report No.: CHTEW21010074 Page: 28 of 29 Issued: 2021-01-15







Report No.: CHTEW21010074 Page: 29 of 29 Issued: 2021-01-15







8. APPENDIX REPORT