FCC REPORT

For LTE

Report No.: CHTW24010050 Report Verification:

Project No...... SHT2312050602W

FCC ID.....: 2ASWW-STAR9PRO

Applicant: XINCHUANGXIN INTERNATIONAL CO. LTD

YUEN STREET MONGKOK KL

Product Name: Tablet

Trade Mark CORN

Model No. Star9 Pro

Listed Model(s)

Standard: FCC CFR Title 47 Part 2

FCC CFR Title 47 Part 22 Subpart H

FCC CFR Title 47 Part 24 Subpart E

FCC CFR Title 47 Part 27

Date of receipt of test sample....... Dec. 18, 2023

Date of testing...... Dec. 19, 2023- Jan. 19, 2024

Date of issue...... Jan. 23, 2024

Result...... Pass

Compiled by

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Xiaodomy Zhe

Approved 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.

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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

FCC CFR Title 47 Part 27: Miscellaneous Wireless Communications Services

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

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2. TEST DESCRIPTION

Section	Test Item	Section in CFR 47	Result #1	Test Engineer
5.1	Conducted Output Power	Part 2.1046 Part 22.913(a) Part 24.232(c) Part 27.50	Pass	Xiaodong Zhao
5.2	Peak-to-Average Ratio	Part 24.232 Part 27.50	Pass	Xiaodong Zhao
5.3	99% Occupied Bandwidth & 26 dB Bandwidth	Part 2.1049 Part 22.917(b) Part 24.238(b) Part 27.53	Pass	Xiaodong Zhao
5.4	Band Edge	Part 2.1051 Part 22.917 Part 24.238 Part 27.53	Pass	Xiaodong Zhao
5.5	Conducted Spurious Emissions	Part 2.1051 Part 22.917 Part 24.238 Part 27.53	Pass	Xiaodong Zhao
5.6	Frequency stability vs temperature	Part 2.1055(a)(1)(b) Part 22.355 Part 24.235 Part 27.54	Pass	Xiaodong Zhao
5.7	Frequency stability vs voltage	Part 2.1055(d)(1)(2) Part 22.355 Part 24.235 Part 27.54	Pass	Xiaodong Zhao
5.8	ERP and EIRP	Part 22.913(a) Part 24.232(b) Part 27.50	Pass	Xiaodong Zhao
5.9	Radiated Spurious Emissions	Part 2.1053 Part 22.917 Part 24.238 Part 27.53	Pass	Yifan Wang

Note:

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

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3. **SUMMARY**

3.1. Client Information

Applicant:	XINCHUANGXIN INTERNATIONAL CO. LTD
Address: ROOM 605 6/F, FA YUEN COMMERCIAL BUILDING, 75-77 FA 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:	lain unit information:				
Product Name:	Tablet				
Trade Mark:	CORN				
Model No.:	Star9 Pro				
Listed Model(s):	-				
Power supply:	DC 3.7V from Battery				
Hardware version:	S866T-T310-V2.0				
Software version:	CORN_Star9_Pro_V01_20240109				
Accessory unit information:					
Battery information:	JJY30100105/3.7V/24 4000mAh /14.8Wh /CB				
Adapter information:	Model: ENGY Pro 24 INPUT: 100~240V-50/60Hz 0.35A OUTPUT: DC 5.0V 2A				

3.3. Radio Specification Description

	☐ LTE Band 2	⊠ LTE Ba	nd 4	☐ LTE Band 5	
		☐ LTE Ba	nd 12	☐ LTE Band 13	
Support Operating Band:		☐ LTE Ba	nd 25	☐ LTE Band 26	
	☐ LTE Band 38	☐ LTE Ba	nd 41	☐ LTE Band 66	
	☐ LTE Band 71				
Operating Frequency Range:	Please refer to note #2				
Channel bandwidth:	Please refer to note #3				
Uplink Modulation type:	⊠ QPSK	⊠ 16QAM	☐ 64QAM	☐ 256QAM	
Downlink Modulation type:	⊠ QPSK	⊠ 16QAM	⊠ 64QAM	☐ 256QAM	
Antenna type:	PIFA				

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Antenna gain #4:		Band 2: 0.8dBi		Band 4: 0.2dB	Band 4: 0.2dBi		
		Band 7: 0.6	idBi	Band 17: -4.3d	Band 17: -4.3dBi		

Note:

- O 🔯: means that this feature is supported; 🗀: means that this feature is not supported
- O #2: Operating frequency range is as follow:

LTE Band	Uplink frequency	Downlink frequency		
LTE Band 2	1850.7 – 1909.3 MHz	1930.7 – 1989.3 MHz		
LTE Band 4	1710.7 – 1754.3 MHz	2110.7 – 2154.3 MHz		
LTE Band 7	2502.5 – 2567.5 MHz	2622.5 – 2687.5 MHz		
LTE Band 17	706.5 – 713.5 MHz	736.5 – 743.5 MHz		

O #3: Supported channel bandwidth is as follow:

LTE Band	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz
LTE Band 2	\checkmark	\checkmark	√	√	√	√
LTE Band 4	√	√	√	√	√	√
LTE Band 7	-	-	√	√	√	√
LTE Band 17	-	-	√	√	-	-

^{√:} means that this feature is supported; -: means that this feature is not supported

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: cs@szhtw.com.cn http://www.szhtw.com.cn			
	Туре	Accreditation Number		
Qualifications:	FCC Registration Number 762235			
	FCC Designation Number	CN1181		

O #4: 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

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4. TEST CONFIGURATION

4.1. Test frequency list

LTE Band 2	Test Frequency ID	Bandwidth [MHz]	NuL	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
		1.4	18607	1850.7	607	1930.7
		3	18615	1851.5	615	1931.5
	Low Range	5	18625	1852.5	625	1932.5
		10	18650	1855	650	1935
		15 ^[1]	18675	1857.5	675	1937.5
	M. I D		18700	1860	700	1940
	Mid Range	1.4/3/5/10 15 ^[1] /20 ^[1]	18900	1880	900	1960
		1.4	19193	1909.3	1193	1989.3
		3	19185	1908.5	1185	1988.5
	High Range	5	19175	1907.5	1175	1987.5
		10 15 ^{trj}	19150	1905	1150	1985
		20 [1]	19125	1902.5	1125	1982.5
			19100	1900	1100	1980
	NOTE 1: Bandwidth 36.101 [2	7] Clause 7.3) is alk		ecilied OL receiver	sensitivity re	quirement (13
TE Band 4	Test Frequency ID	Bandwidth [MHz]	NuL	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
		1.4	19957	1710.7	1957	2110.7
		3	19965	1711.5	1965	2111.5
	Low Range	5	19975	1712.5	1975	2112.5
	Low realige	10	20000	1715	2000	2115
		15	20025	1717.5	2025	2117.5
		20	20050	1720	2050	2120
	Mid Range	1.4/3/5/10/15/20	20175	1732.5	2175	2132.5
		1.4	20393	1754.3	2393	2154.3
		3	20385	1753.5	2385	2153.5
	High Range	5	20375	1752.5	2375	2152.5
		10	20350	1750	2350	2150
		15 20	20325 20300	1747.5 1745	2325 2300	2147.5 2145
		20	20300	1745	2300	2145
E Band 7	Test Frequency ID	Bandwidth [MHz]	N _{UL}	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
		5	20775	2502.5	2775	2622.5
	Low Range	10	20800	2505	2800	2625
	Low Range	15	20825	2507.5	2825	2627.5
		20 [1]	20850	2510	2850	2630
	Mid Range	5/10/15 20 ^[1]	21100	2535	3100	2655
		5	21425	2567.5	3425	2687.5
	High Range	10	21400	2565	3400	2685
		15 20 ^[1]	21375	2562.5	3375	2682.5
	NOTE 1: Bandwidth f		21350	2560	3350	2680
		Clause 7.3) is allow		and of receiver ser	isiavity roqui	Toment (10
LTE Band 17	Test Frequency ID	Bandwidth [MHz]	NuL	Frequency of Uplink [MHz]	N _{DL}	Frequency of Downlink [MHz]
	Low Range	10 ^[1]	23755	706.5	5755	736.5
		5 [1]/10 [1]	23780	709	5780	739
	Mid Range	517/1017	23790	710	5790	740
	High Range	10 [1]	23825	713.5	5825 5800	743.5
	NOTE 1: Bandwidth f		23800	711		741 irement (TS 36 101
		7.3) is allowed.	or the spec	anda de receiver ser	isiavity requi	10110111 (10 30.101
	[zi] olado	,				

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4.2. Test mode

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

Test configuration is as follow:

Test Items	Bandwidth	Modulation	RB#			
restitems	Danawiain	Modulation	1	Half	Full	
Conducted Output Power	#5	#6	0	0	0	
Peak-to-Average Ratio	#5	#6	0	-	0	
99% Occupied Bandwidth & 26 dB Bandwidth	#5	#6	-	-	0	
Band Edge	#5	#6	0	-	0	
Conducted Spurious Emission	#5	#6	0	-	-	
Frequency Stability	#5	#6	-	-	0	
ERP and EIRP	#5	#6	0	0	0	
Radiated Spurious Emission	#5	#6	0	-	-	

Note:

- O #5: Test all kind of bandwith in section 3.3
- O #6: Test all kind of uplink modulation in section 3.3
- O o: means that this configuration is chosen for testing
- O -: means that this configuration is not test.
- O The device is investigatedfrom 30MHz to10 times offundamental signal for radiated spurious emission test under different bandwidth,modulations and RB size/offset in exploratory test. Subsequently, only the worst case emissions(highest bandwidth,QPSK,and 1RB0) are reported.

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	YPHT23120506001

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

Radiated test items: Radiated Spurious Emission

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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	Whether 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			
Tomporoturo	TN=Normal Temperature	25 °C			
Temperature	Extreme Temperature From -30°C to + 50°C				
Humidity	30~60 %				
Air Pressure	ressure 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 Spurious 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.

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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 Equipment										
Used	Test Equipment	Test Equipment Manufacturer Equipment No. Model No. Serial No. Last Cal. Next Date Date (YY-MM-DD) (YY-MI									
•	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 Equipment										
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				

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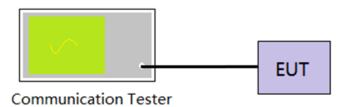
5. TEST CONDITIONS AND RESULTS

5.1. Conducted Output Power

LIMIT

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 4.2

TEST RESULTS

TEST DATA

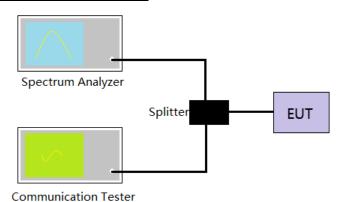
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5.2. Peak-to-Average Ratio

LIMIT

13dB

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. 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 durationof 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

TEST DATA

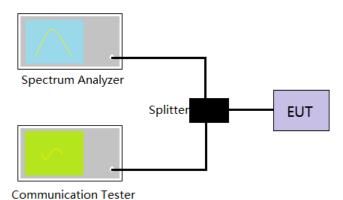
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5.3. 99% Occupied Bandwidth & 26 dB Bandwidth

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 the 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

TEST DATA

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5.4. Band Edge

LIMIT

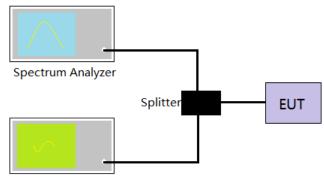
Part 24.238 and Part 22.917 and Part 27.53 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

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.

LTE Band 7

Part 27.53 m(4) For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section.

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.
- Spectrum analyzer setting as follow:
 RBW= no less than 1% of the OBW, VBW =3 * RBW, Sweep time= Auto
- 5. Record the test plot.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

TEST DATA

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5.5. Conducted Spurious Emissions

LIMIT

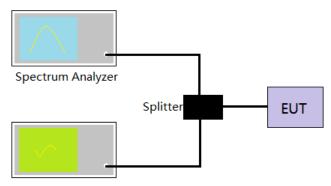
Part 24.238 and Part 22.917 and Part 27.53 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

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Part 27.53 m(4) For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. Limit <-25 dBm

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:

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.

Record the test plot.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

TEST DATA

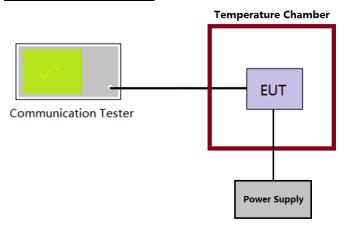
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5.6. Frequency stability VS Temperature measurement

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 4.2

TEST RESULTS

TEST DATA

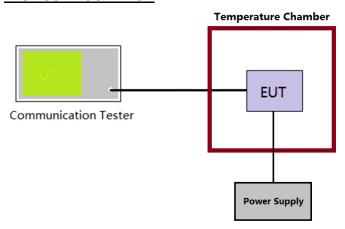
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5.7. Frequency stability VS Voltage measurement

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 4.2

TEST RESULTS

TEST DATA

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5.8. ERP and EIRP

LIMIT

LTE Band 2/7: 2W(33dBm) EIRP LTE Band 4: 1W(30dBm) EIRP LTE Band 17: 3W(34.77dBm) ERP

TEST PROCEDURE

- 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)
- 3. EIRP = conducted power + Gain(dBi)

ERP = EIRP - 2.15

TEST RESULTS

TEST DATA

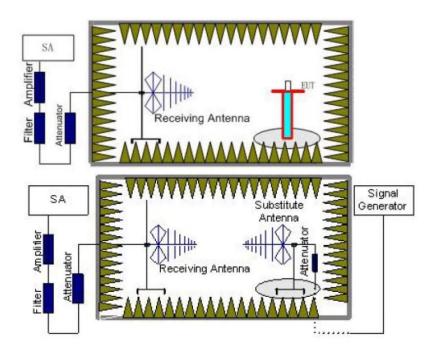
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5.9. Radiated Spurious Emission

LIMIT

LTE Band 2/4/17: -13dBm LTE Band 7: -25dBm

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.

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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 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.
 - 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

Note: only show the worse case for QPSK modulation.

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LTE Band 2									
Test channel:		Low		F	Polarization	:	Horiz	ontal	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1 2	41.75 841.21	-79.98 -80.58	26.96 29.88	1.18	30.58 29.29	-82.42 -74.06	-13.00 -13.00	-69.42 -61.06	Peak Peak
3	1405.75	-71.52	37.12	7.93	29.02	-55.49	-13.00	-42.49	Peak
4 5	2220.19 3709.69	-71.17 -50.07	40.85 42.28	10.30 5.19	28.97 41.60	-48.99 -44.20	-13.00 -13.00	-35.99 -31.20	Peak Peak
6	9298.80	-52.97	49.63	9.22	40.96	-35.08	-13.00	-22.08	Peak
Test cha	annel:	Low			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	86.76	-80.10	24.46	1.74	30.66	-84.56	-13.00	-71.56	Peak
2	817.88 1538.27	-80.38 -70.70	29.76 37.76	5.83 8.34	29.44 28.78	-74.23 -53.38	-13.00 -13.00	-61.23 -40.38	Peak Peak
4	2217.75	-71.97	41.51	10.30	29.00	-49.16	-13.00	-36.16	Peak
5 6	3709.69 7432.62	-52.01 -57.38	42.29 48.53	5.19 7.84	41.60 41.03	-46.13 -42.04	-13.00 -13.00	-33.13 -29.04	Peak Peak

Test cha	annel:	Mid			Polarization:		Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp	Level dBm	Limit	Over limit	Remark
1	39.89	-79.13	27.76	1.15		-80.82	-13.00	-67.82	Peak
2	850.14	-78.27	29.76	5.97	29.35	-71.89	-13.00	-58.89	Peak
3	1448.07	-72.30	36.86	8.05	28.85	-56.24	-13.00	-43.24	Peak
4	2232.42	-69.26	40.78	10.37	28.75	-46.86	-13.00	-33.86	Peak
5	3747.66	-48.76	42.24	5.19	41.59	-42.92	-13.00	-29.92	Peak
6	9393.97	-51.49	50.01	9.30	40.92	-33.10	-13.00	-20.10	Peak
Test cha	annel:	Mid			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	101.64	-81.38	25.53	1.89	30.64	-84.60	-13.00	-71.60	Peak
2	856.14	-80.80	29.88	6.00	29.37	-74.29	-13.00	-61.29	Peak
3	1550.14	-72.03	37.76	8.37	28.76	-54.66	-13.00	-41.66	Peak
4	2215.32	-72.05	41.54	10.30	29.02	-49.23	-13.00	-36.23	Peak
5	3747.66	-56.23	42.17	5.19	41.59	-50.46	-13.00	-37.46	Peak
6	7508.69	-57.36	48.40	7.69	41.09	-42.36	-13.00	-29.36	Peak

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Test cha	nnel:	High	High		Polarization:			Horizontal		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	0ver	Remark	
	MHZ	dBm	dB	dB	dB	dBm	dBm	limit		
1	39.75	-79.75	27.74	1.15	30.61	-81.47	-13.00	-68.47	Peak	
2	593.90	-75.07	27.59	4.88	29.79	-72.39	-13.00	-59.39	Peak	
3	1443.31	-71.60	36.89	8.03	28.80	-55.48	-13.00	-42.48	Peak	
4	2440.18	-67.89	39.60	10.93	27.83	-45.19	-13.00	-32.19	Peak	
5	3795.66	-51.84	42.19	5.24	41.57	-45.98	-13.00	-32.98	Peak	
6	7585.53	-52.99	47.70	7.87	41.16	-38.58	-13.00	-25.58	Peak	
Test cha	nnel:	High			Polarization:		Vertical			
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark	
	MHZ	dBm	dB	dB	dB	dBm	dBm	limit		
1	86.76	-79.91	24.46	1.74	30.66	-84.37	-13.00	-71.37	Peak	
2	759.66	-79.54	29.06	5.60	29.45	-74.33	-13.00	-61.33	Peak	
3	1472.13	-71.73	37.76	8.13	28.99	-54.83	-13.00	-41.83	Peak	
4	2217.75	-71.17	41.51	10.30	29.00	-48.36	-13.00	-35.36	Peak	
5	3795.66	-53.51	42.03	5.24	41.57	-47.81	-13.00	-34.81	Peak	
6	9490.10	-52.94	49.73	9.39		-34.79	-13.00	-21.79	Peak	

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				LTE Bar	nd 4				
Test channel:		Low		F	Polarization	:	Horiz	ontal	
Mark	Frequency MHZ	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	42.19	-81.55	26.76	1.19	30.57	-84.17	-13.00	-71.17	Peak
2	847.15	-81.46	29.80	5.96	29.33	-75.03	-13.00	-62.03	Peak
3	1459.25	-70.33	36.79	8.09	28.95	-54.40	-13.00	-41.40	Peak
4	2426.82	-70.66	39.67	10.87	27.83	-47.95	-13.00	-34.95	Peak
5	6886.15	-52.59	47.14	7.39	40.85	-38.91	-13.00	-25.91	Peak
6	8593.22	-54.78	47.37	8.77	41.65	-40.29	-13.00	-27.29	Peak
Test cha	annel:	Low		F	Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	108.28	-81.44	24.66	1.95	30.62	-85.45	-13.00	-72.45	Peak
2	847.15	-79.93	29.82	5.96	29.33	-73.48	-13.00	-60.48	Peak
3	1560.39	-71.10	37.76	8.40	28.74	-53.68	-13.00	-40.68	Peak
4	2234.87	-71.87	41.29	10.38	28.71	-48.91	-13.00	-35.91	Peak
5	6868.65	-59.31	47.39	7.34	40.85	-45.43	-13.00	-32.43	Peak
6	8593.22	-57.78	47.74	8.77	41.65	-42.92	-13.00	-29.92	Peak

Test ch	annel:	Mid	Mid			:	Horiz	Horizontal	
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	MHZ	dBm	dB	dB	dB	dBm	dBm	limit	
1	51.56	-76.97	23.70	1.32	30.67	-82.62	-13.00	-69.62	Peak
2	659.98	-80.58	28.04	5.18	29.66	-77.02	-13.00	-64.02	Peak
3	1399.58	-70.23	37.16	7.91	29.07	-54.23	-13.00	-41.23	Peak
4	2480.73	-72.03	39.38	11.03	27.20	-48.82	-13.00	-35.82	Peak
5	6921.30	-61.75	47.30	7.39	40.86	-47.92	-13.00	-34.92	Peak
6	8659.10	-61.12	47.81	8.86	41.56	-46.01	-13.00	-33.01	Peak
Test channel:		Mid		F	Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	90.82	-80.29	25.88	1.78	30.69	-83.32	-13.00	-70.32	Peak
2	844.18	-80.51	29.81	5.95	29.31	-74.06	-13.00	-61.06	Peak
3	1301.70	-71.84	37.33	7.57	29.05	-55.99	-13.00	-42.99	Peak
4	2220.19	-71.79	41.48		28.97	-48.98	-13.00	-35.98	Peak
5				10.30					
-	6921.30	-59.43	47.37	7.39	40.86	-45.53	-13.00	-32.53	Peak
6	8659.10	-56.86	48.28	8.86	41.56	-41.28	-13.00	-28.28	Peak

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Test cha	annel:	High			Polarization	Hori	Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	41.75	-80.58	26.96	1.18	30.58	-83.02	-13.00	-70.02	Peak
2	746.42	-80.93	29.38	5.54	29.51	-75.52	-13.00	-62.52	Peak
3	1518.12	-71.00	36.43	8.26	28.84	-55.15	-13.00	-42.15	Peak
4	2287.03	-69.85	40.46	10.50	28.70	-47.59	-13.00	-34.59	Peak
5	6974.36	-54.52	47.53	7.34	40.88	-40.53	-13.00	-27.53	Peak
6	8725.48	-59.15	48.30	8.93	41.46	-43.38	-13.00	-30.38	Peak
Test channel:		High			Polarization	า:	Vert	ical	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over	Remark
1	89.87	-81.81	25.83	1.77	30.69	-84.90	-13.00	-71.90	Peak
2	862.18	-79.32	29.88	6.02	29.32	-72.74	-13.00	-59.74	Peak
3	1550.14	-70.51	37.76	8.37	28.76	-53.14	-13.00	-40.14	Peak
4	2304.69	-69.56	40.44	10.53	28.84	-47.43	-13.00	-34.43	Peak
5	6974.36	-52.52	47.36	7.34	40.88	-38.70	-13.00	-25.70	Peak
6	8725.48	-57.97	48.88	8.93	41.46	-41.62	-13.00	-28.62	Peak

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				LTE Ba	nd 7				
Test channel:		Low		i	Polarization	n:	Horiz	zontal	
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	MHZ	dBm	dB	dB	dB	dBm	dBm	limit	
1	781.33	-71.40	29.79	5.71	29.54	-65.44	-25.00	-40.44	Peak
2	948.05	-68.72	29.40	6.35	29.27	-62.24	-25.00	-37.24	Peak
3	5009.43	-52.88	44.34	6.10	41.10	-43.54	-25.00	-18.54	Peak
4	7527.83	-46.51	47.96	7.75	41.11	-31.91	-25.00	-6.91	Peak
5	10036.73	-47.66	50.50	9.52	41.26	-28.90	-25.00	-3.90	Peak
6	12556.75	-54.94	52.76	11.10	41.70	-32.78	-25.00	-7.78	Peak
Test ch	annel:	Low		ı	Polarization	n:	Verti	cal	
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	MHZ	dBm	dB	dB	dB	dBm	dBm	limit	
1	762.33	-65.56	29.08	5.62	29.45	-60.31	-25.00	-35.31	Peak
2	948.05	-63.83	29.13	6.35	29.27	-57.62	-25.00	-32.62	Peak
3	5009.43	-57.14	44.48	6.10	41.10	-47.66	-25.00		
4	7527.83	-54.33	48.37	7.75	41.11	-39.32	-25.00		12
5	10036.73	-59.84	50.64	9.52	41.26	-40.94	-25.00	-15.94	
-	20030173	33.07	30104	2.52	72.20	10101	-25.00		1 Cure

Test ch	annel:	Mid			Polarization:			Horizontal		
Mark	Frequency	Reading	Antenna	Cable		Level	Limit		Remark	
	MHZ	dBm	dB	dB	dB	dBm	dBm	limit		
1	37.84	-81.64	27.46	1.12	30.64	-83.70	-25.00	-58.70	Peak	
2	762.33	-67.02	29.22	5.62	29.45	-61.63	-25.00	-36.63	Peak	
3	5060.69	-55.43	44.23	6.15	41.08	-46.13	-25.00	-21.13	Peak	
4	7604.87	-51.98	47.64	7.83	41.17	-37.68	-25.00	-12.68	Peak	
5	10139.45	-54.53	50.76	9.57	41.08	-35.28	-25.00	-10.28	Peak	
6	12685.25	-59.11	52.75	11.19	41.69	-36.86	-25.00	-11.86	Peak	
Test ch	annel:	Mid			Polarization	n:	Vert	ical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark	
1	88.93	-81.22	25.42	1.76	30.68	-84.72	-25.00	-59.72	Peak	
2	978.54	-81.13	29.76	6.48		-74.41	-25.00	-49.41	Peak	
3	5060.69	-62.33	44.33	6.15		-52.93	-25.00	-27.93	Peak	
4	7604.87	-53.29	48.26	7.83	41.17	-38.37	-25.00	-13.37	Peak	
5	10139.45	-62.89	51.02	9.57	41.08	-43.38	-25.00	-18.38	Peak	
6	11515.68	-66.86	53.20	10.37	42.30	-45.59	-25.00	-20.59	Peak	

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Test cha	annel:	High	High			Polarization:			
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	MHZ	dBm	dB	dB	dB	dBm	dBm	limit	
1	781.33	-62.55	29.79	5.71	29.54	-56.59	-25.00	-31.59	Peak
2	948.05	-58.51	29.40	6.35	29.27	-52.03	-25.00	-27.03	Peak
3	5112.49	-54.78	44.13	6.22	41.06	-45.49	-25.00	-20.49	Peak
4	7682.70	-47.71	47.73	7.78	41.24	-33.44	-25.00	-8.44	Peak
5	10243.22	-54.88	51.03	9.63	40.89	-35.11	-25.00	-10.11	Peak
6	11515.68	-67.44	52.97	10.37	42.30	-46.40	-25.00	-21.40	Peak
Test cha	annel:	High		F	Polarization	1:	Vertic	cal	
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	MHZ	dBm	dB	dB	dB	dBm	dBm	limit	
1	778.59	-65.00	29.27	5.70	29.51	-59.54	-25.00	-34.54	Peak
2	944.72	-64.77	29.05	6.34	29.26	-58.64	-25.00	-33.64	Peak
3	5112.49	-59.91	44.18	6.22	41.06	-50.57	-25.00	-25.57	Peak
4	7682.70	-56.90	48.38	7.78	41.24	-41.98	-25.00	-16.98	Peak
5	10243.22	-63.42	51.40	9.63	40.89	-43.28	-25.00	-18.28	Peak
6	11963.89	-67.34	52.98	10.68	42.30	-45.98	-25.00	-20.98	Peak

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				LTE Bar	nd 17				
Test channel:		Low			Polarization	1:	Horiz	ontal	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1 2	38.78 437.37	-93.06 -93.46	27.60 26.03	1.13 4.12	0.00 0.00	-64.33 -63.31	-13.00 -13.00	-51.33 -50.31	Peak Peak
3	1410.08	-32.88 -42.08	37.10 40.19	3.09	42.01 41.87	-34.70 -39.97	-13.00 -13.00	-21.70 -26.97	Peak Peak
5	3525.56	-48.42	41.36	5.15	41.60	-43.51	-13.00	-30.51	Peak
6	4234.72	-49.08	42.40	5.79	41.40	-42.29	-13.00	-29.29	Peak
Test cha	annel:	Low			Polarization	n:	Verti	cal	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	106.39	-95.44	24.90	1.93	0.00	-68.61	-13.00	-55.61	Peak
2	422.26 1410.08	-94.63 -35.70	25.40 37.76	4.05 3.09	0.00 42.01	-65.18 -36.86	-13.00 -13.00	-52.18 -23.86	Peak Peak
4 5	2113.59 3525.56	-50.48 -52.76	40.29 41.50	3.79 5.15	41.87 41.60	-48.27 -47.71	-13.00 -13.00	-35.27 -34.71	Peak Peak
6	4234.72	-50.89	42.61	5.79	41.40	-43.89	-13.00	-30.89	Peak

Test cha	annel:	Mid	Mid			:	Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	38.78	-92.47	27.60	1.13	0.00	-63.74	-13.00	-50.74	Peak
2	451.43	-93.62	25.93	4.20	0.00	-63.49	-13.00	-50.49	Peak
3	1410.08	-32.55	37.10	3.09	42.01	-34.37	-13.00	-21.37	Peak
4	2113.59	-41.63	40.19	3.79	41.87	-39.52	-13.00	-26.52	Peak
5	2825.19	-47.32	40.77	4.49	41.77	-43.83	-13.00	-30.83	Peak
6	7063.69	-53.89	47.72	7.41	40.91	-39.67	-13.00	-26.67	Peak
Test cha	annel:	Mid			Polarization	:	Vertic	cal	
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	MHZ	dBm	dB	dB	dB	dBm	dBm	limit	
1	105.28	-95.84	25.04	1.92	0.00	-68.88	-13.00	-55.88	Peak
2	498.14	-95.39	26.21	4.43	0.00	-64.75	-13.00	-51.75	Peak
3	1410.08	-35.71	37.76	3.09	42.01	-36.87	-13.00	-23.87	Peak
4	2113.59	-50.13	40.29	3.79	41.87	-47.92	-13.00	-34.92	Peak
5	4234.72	-48.06	42.61	5.79	41.40	-41.06	-13.00	-28.06	Peak
6	7063.69	-54.83	47.76	7.41	40.91	-40.57	-13.00	-27.57	Peak

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Test cha	annel:	High			Polarization	:	Horiz		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	41.75	-94.73	26.96	1.18	0.00	-66.59	-13.00	-53.59	Peak
2	467.59	-94.99	25.59	4.28	0.00	-65.12	-13.00	-52.12	Peak
3	1410.08	-32.96	37.10	3.09	42.01	-34.78	-13.00	-21.78	Peak
4	2113.59	-41.24	40.19	3.79	41.87	-39.13	-13.00	-26.13	Peak
5	3525.56	-47.46	41.36	5.15	41.60	-42.55	-13.00	-29.55	Peak
6	4234.72	-48.20	42.40	5.79	41.40	-41.41	-13.00	-28.41	Peak
Test channel:		High			Polarization:		Vertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	90.19	-97.28	25.89	1.77	0.00	-69.62	-13.00	-56.62	Peak
2	498.14	-95.17	26.21	4.43	0.00	-64.53	-13.00	-51.53	Peak
3	1410.08	-36.59	37.76	3.09	42.01	-37.75	-13.00	-24.75	Peak
4	2113.59	-48.41	40.29	3.79	41.87	-46.20	-13.00	-33.20	Peak
5	2825.19	-50.08	40.72	4.49	41.77	-46.64	-13.00	-33.64	Peak
6	4234.72	-48.37	42.61	5.79	41.40	-41.37	-13.00	-28.37	Peak

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6. TEST SETUP PHOTOS OF THE EUT

Refer to the test report No.: CHTW24010048

7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Refer to the test report No.: CHTW24010048

8. APPENDIX REPORT