# **FCC REPORT**

## For LTE

Report No. ....: CHTEW23090006 Report Verification:

Project No...... SHT2307026501EW

FCC ID.....: 2A6LY-0006

Applicant .....: Resvent Medical Technology Co., Ltd.

Address...... BC601, BC602, Gaoxinqi Factory, District 67, Xingdong

Community, Xin'an Street, Bao'an District, 518100 Shenzhen,

PEOPLE'S REPUBLIC OF CHINA

Product Name .....: RXiBreeze PAP System

Trade Mark ..... -

Model No. ...... RXiBreeze III APAP Pro

Listed Model(s) ...... RXiBreeze III CPAP, RXiBreeze III CPAP Pro, RXiBreeze III

**APAP** 

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............ Aug. 05, 2023

Date of testing...... Aug. 06, 2023- Aug. 22, 2023

Date of issue...... Aug. 31, 2023

Result...... Pass

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

Gongming, Shenzhen, China

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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	2023-08-31	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:	Resvent Medical Technology Co., Ltd.
Address:	BC601, BC602, Gaoxinqi Factory, District 67, Xingdong Community,Xin'an Street, Bao'an District, 518100 Shenzhen, PEOPLE'S REPUBLIC OF CHINA
Manufacturer:	Resvent Medical Technology Co., Ltd.
Address:	BC601, BC602, Gaoxinqi Factory, District 67, Xingdong Community,Xin'an Street, Bao'an District, 518100 Shenzhen, PEOPLE'S REPUBLIC OF CHINA
Factory:	Resvent Medical Technology Co., Ltd.
Address:	BC601, BC602, Gaoxinqi Factory, District 67, Xingdong Community,Xin'an Street, Bao'an District, 518100 Shenzhen, PEOPLE'S REPUBLIC OF CHINA

## 3.2. Product Description

Main unit information:						
Product Name:	RXiBreeze PAP System					
Trade Mark:	-					
Model No.:	RXiBreeze III APAP Pro					
Listed Model(s):	RXiBreeze III CPAP, RXiBreeze III CPAP Pro, RXiBreeze III APAP					
Power supply:	DC 24.0V from adapter					
Hardware version:	1.0					
Software version:	V01.00.00					
Accessory unit information:						
	Model: LXCP61(II)-024300					
Adapter information:	Input:100-240Va.c., 50/60Hz 1.5Amax.					
	Output:24.0Vd.c., 3.0A					

## 3.3. Radio Specification Description

Cuppert Operating Rands	☐ LTE Band 2 ☐ LTE Band 4		LTE Band 4	☑ LTE Band 12	
Support Operating Band:	☑ LTE Band 13				
Operating Frequency Range:	Please refer to note #2				
Channel bandwidth:	Please refer to note #3				
Uplink Modulation type#4:	⊠ QPSK	⊠ 16QA	M 🗌 64QAM	☐ 256QAM	
Downlink Modulation type#4:	⊠ QPSK		M 🗌 64QAM	☐ 256QAM	
Antenna type:	FPC				
Antenna gain #5:	1.19dBi				

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#### 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 12	699.7 – 715.3 MHz	729.7 – 745.3 MHz		
LTE Band 13	779.5 – 784.5 MHz	748.5 – 753.5 MHz		

#### O #3: Supported channel bandwidth is as follow:

LTE Band	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz
LTE Band 2	√	<b>√</b>	<b>√</b>	<b>√</b>	√	<b>√</b>
LTE Band 4	√	√	√	√	√	√
LTE Band 12	√	√	√	√	-	-
LTE Band 13	-	-	√	√	-	-

 $<sup>\</sup>sqrt{\ }$ : means that this feature is supported; -: means that this feature is not supported

- O #4: LTE Cat 1 16QAM only supports 25%RB.
- O #5: 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	1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China			
Contact information:	Tel: 86-755-26715499 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn			
Qualifications	Туре	Accreditation Number		
Qualifications	FCC	762235		

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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 <sub>DL</sub>	Frequency of Downlink
		4.4	18607	1050.7	607	[MHz]
		1.4 3	18607	1850.7 1851.5	615	1930.7 1931.5
		5	18625	1851.5	625	1931.5
	Low Range	10	18625		650	1932.5
		15 [1]	18675	1855 1857.5	675	1935
		20 tu	18675	1857.5 1860	700	1937.5
	Mid Danse	4.4/2/5/40				
	Mid Range	1.4/3/5/10 15 <sup>[1]</sup> /20 <sup>[1]</sup>	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	19150	1905	1150	1985
		15 <sup>[1]</sup>	19125	1902.5	1125	1982.5
	NOTE 1: Bandwidth	20 [1]	19100	1900	1100	1980
_TE Band 4	36.101 [2	7] Clause 7.3) is alk	NuL	F====================================	N <sub>DL</sub>	Frequency of
LIE Dallu 4	rest Frequency ID	[MHz]		Frequency of Uplink [MHz]		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
		10	20000	1715	2000	2115
		15 20	20025 20050	1717.5 1720	2025 2050	2117.5 2120
	Mid Danes	20 1.4/3/5/10/15/20	20050	1720	2050	2120
	Mid Range					
		1.4	20393 20385	1754.3 1753.5	2393 2385	2154.3 2153.5
		5	20365	1752.5	2375	2152.5
	High Range	10	20375	1752.5	2350	2152.5
		15	20325	1747.5	2325	2147.5
		20	20300	1745	2300	2147.5
E Band 12	Table 4.3.1.1.12-1	Test frequencies	for E-UTF	RA channel band	width for o	perating band 12
	Test Frequency ID	Bandwidth [MHz]	NuL	Frequency of Uplink [MHz]	N <sub>DL</sub>	Frequency of Downlink [MHz]
		1.4	23017	699.7	5017	729.7
	Law Barrer	3	23025	700.5	5025	730.5
	Low Range	5 [1]	23035	701.5	5035	731.5
		10 [1]	23060	704	5060	734
	Mid Range	1.4/3 5 [1]/10 [1]	23095	707.5	5095	737.5
		1.4	23173	715.3	5173	745.3
	High Dance	3	23165	714.5	5165	744.5
	High Range	5 [1]	23155	713.5	5155	743.5
		10 [1]	23130	711	5130	741
	NOTE 1: Bandwidth (TS 36.10	for which a relaxation 1 [27] Clause 7.3) is		cified UE receiver s	ensitivity req	uirement
LTE Band 13	Test Frequency ID	Bandwidth [MHz]	NuL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
	Low Range	5 [1]	23205	779.5	5205	748.5
		10 [1]	23230	782	5230	751
	Mid Range	5 [1]/10 [1]	23230	782	5230	751
	High Range	5 [1]	23255	784.5	5255	753.5
	NOTE 1: Bandwidth for which a relaxation of the specified UE receiver sensitivity requirement					
	(TS 36.10	1 [27] Clause 7.3) is	allowed.			

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#### 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.
- 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	#6	#7	0	0	0	
Peak-to-Average Ratio	#6	#7	0	-	0	
99% Occupied Bandwidth & 26 dB Bandwidth	#6	#7	-	-	0	
Band Edge	#6	#7	0	-	0	
Conducted Spurious Emission	#6	#7	0	-	-	
Frequency Stability	#6	#7	-	-	0	
ERP and EIRP	#6	#7	0	0	0	
Radiated Spurious Emission	#6	#7	0	-	-	

#### Note:

- O #6: Test all kind of bandwith in section 3.3
- O #7: 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	YPHT23031342001

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

## 4.5. Testing environmental condition

	VN=Nominal Voltage	AC 120V
Voltage	VL=Lower Voltage	AC 102V
	VH=Higher Voltage	AC 138V
Tomporatura	TN=Normal Temperature	25 °C
Temperature	Extreme Temperature	From -30°C to + 50°C
Humidity	30~60 %	
Air Pressure	950-1050 hPa	

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## 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 Efficación	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	2022/08/25	2023/08/24
•	Radio communication tester	R&S	HTWE0287	CMW500	137688-Lv	2022/08/25	2023/08/24
•	Test software	Tonscend	N/A	JS1120	N/A	N/A	N/A
•	T-Cock	Weinschel	HTWE0289	1580	SC329	2022/08/25	2023/08/24

•	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	HTWE0254	GPL-2	N/A	2022/08/29	2023/08/28
•	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	2022/8/25	2023/8/24
•	Spectrum Analyzer	R&S	HTWE0385	N9020A	MY54486658	2022/8/25	2023/8/24
•	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	2022/08/25	2023/08/24
•	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**

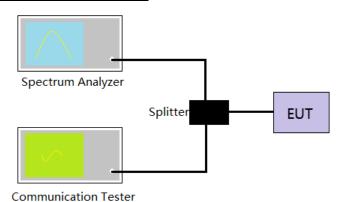
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### 5.2. Peak-to-Average Ratio

#### **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**

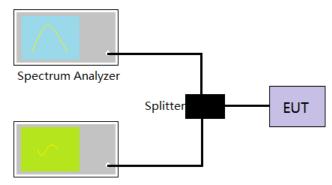
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## 5.3. 99% Occupied Bandwidth & 26 dB Bandwidth

## **LIMIT**

N/A

#### **TEST CONFIGURATION**



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 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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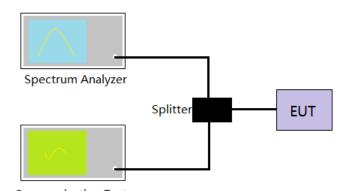
## 5.4. Band Edge

#### 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.

#### **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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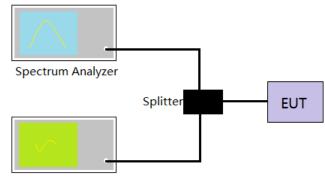
## 5.5. Conducted Spurious Emissions

#### 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.

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. 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 10<sup>th</sup> harmonic.

4. Record the test plot.

#### **TEST MODE**

Please refer to the clause 4.2

#### **TEST RESULTS**

#### **TEST DATA**

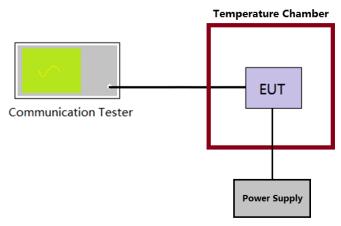
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## 5.6. Frequency stability VS Temperature measurement

#### **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**

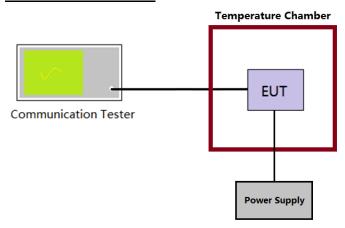
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## 5.7. Frequency stability VS Voltage measurement

#### **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: 2W(33dBm) EIRP LTE Band 4: 1W(30dBm) EIRP

LTE Band 12/13: 3W(34.77dBm) ERP

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

ERP = EIRP - 2.15

### **TEST RESULTS**

## **TEST DATA**

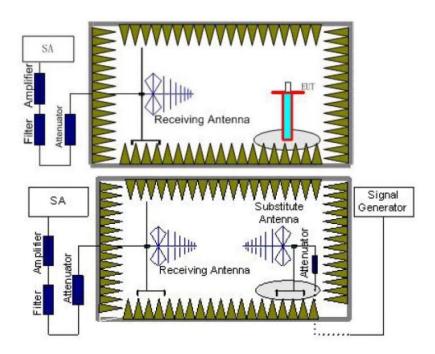
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## 5.9. Radiated Spurious Emission

#### **LIMIT**

LTE Band 2/4/12/13: -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.
- 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.
- 7. Set-up the substitution measurement with the reference point of the substitution antenna located as near

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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.
  - 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**

Note: only show the worse case for QPSK modulation.

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Test cha	annel:	Low			Polarization	on:	Ho	rizontal		
		2011						Tionzontai		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark	
1	38.78	-81.84	27.60	1.13	30.62	-83.73	-13.00	-70.73	Peak	
2	948.05	-76.49	29.40	6.35	29.27	-70.01	-13.00	-57.01	Peak	
3	1819.83	-67.11	36.97	9.17	29.11	-50.08	-13.00	-37.08	Peak	
4	2555.42	-71.12	38.98	11.25	26.71	-47.60	-13.00	-34.60	Peak	
5	3709.69	-54.98	42.28	5.19	37.01	-44.52	-13.00	-31.52	Peak	
6	5574.67	-56.50	43.76	6.51	35.21	-41.44	-13.00	-28.44	Peak	
Test cha	annel:	Low			Polarization	on:	Ve	rtical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over	Remark	
1	97.78	-82.11	25.78	1.85	30.65	-85.13	-13.00	-72.13	Peak	
2	948.05	-72.20	29.13	6.35	29.27	-65.99	-13.00	-52.99	Peak	
3	1819.83	-65.51	36.66	9.17	29.11	-48.79	-13.00	-35.79	Peak	
4	2440.18	-67.25	39.28	10.93	27.83	-44.87	-13.00	-31.87	Peak	
5	3709.69	-56.43	42.29	5.19	37.01	-45.96	-13.00	-32.96	Peak	
6	5574.67	-51.84	43.93	6.51	35.21	-36.61	-13.00	-23.61	Peak	

Test cha	nnel:	Mid	Mid			Polarization:			Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limi dB	THE PARTY OF THE P			
1	613.00	-68.98	28.14	4.98	30.10	-65.96	-13.0	0 -52.	96 Peak		
2	773.13	-76.10	29.57	5.67	29.49	-70.35	-13.0	0 -57.	35 Peak		
3 4	1815.84	-65.63	36.92	9.17	29.11	-48.65	-13.0	0 -35.	65 Peak		
4	2459.02	-61.73	39.50	10.96	27.71	-38.98	-13.0	0 -25.	98 Peak		
5	3747.66	-58.52	42.24	5.19	36.97	-48.06	-13.0	0 -35.0	96 Peak		
6	5631.73	-56.16	43.77	6.61	35.26	-41.04	-13.0	0 -28.	94 Peak		
Test cha	nnel:	Mid			Polarizat	tion:		Vertical			
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark		
1	781.33	-76.27	29.30	5.71	29.54	-70.80	-13.00	-57.80	Peak		
2	948.05	-74.30	29.13	6.35	29.27	-68.09	-13.00	-55.09	Peak		
3	1819.83	-67.34	36.66	9.17	29.11	-50.62	-13.00	-37.62	Peak		
4	2426.82	-63.20	39.30	10.87	27.83	-40.86	-13.00	-27.86	Peak		
5	3747.66	-60.23	42.17	5.19	36.97	-49.84	-13.00	-36.84	Peak		
6	5631.73	-53.14	43.94	6.61	35.26	-37.85	-13.00	-24.85	Peak		

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Test channel: High				Polarization:			orizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	166.29	-76.75	20.52	2.45	30.47	-84.25	-13.00	-71.25	Peak
2	948.05	-71.42	29.40	6.35	29.27	-64.94	-13.00	-51.94	Peak
3	1807.88	-68.65	36.82	9.13	28.98	-51.68	-13.00	-38.68	Peak
4	2445.55	-69.20	39.57	10.96	27.83	-46.50	-13.00	-33.50	Peak
5	3795.66	-60.47	42.19	5.24	37.08	-50.12	-13.00	-37.12	Peak
6	5689.36	-54.50	43.85	6.58	35.28	-39.35	-13.00	-26.35	Peak
Test ch	annel:	High			Polarization	on:	Ve	rtical	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	97.78	-82.20	25.78	1.85	30.65	-85.22	-13.00	-72.22	Peak
2	944.72	-74.61	29.05	6.34	29.26	-68.48	-13.00	-55.48	Peak
3	1807.88	-64.55	36.55	9.13	28.98	-47.85	-13.00	-34.85	Peak
4	2836.53	-75.76	40.74	12.02	24.90	-47.90	-13.00	-34.90	Peak
5	3795.66	-60.68	42.03	5.24	37.08	-50.49	-13.00	-37.49	Peak
6	5689.36	-51.27	44.00	6.58	35.28	-35.97	-13.00	-22.97	Peak

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Test channel:		Low			Polarizatio	n:	Hoi	rizontal	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	53.59	-82.10	23.91	1.34	30.71	-87.56	-13.00	-74.56	Peak
2	944.72	-74.59	29.33	6.34	29.26	-68.18	-13.00	-55.18	Peak
3	1521.46	-71.45	36.41	8.28	28.83	-55.59	-13.00	-42.59	Peak
4	2461.72	-68.30	39.48	10.97	27.64	-45.49	-13.00	-32.49	Peak
5	5151.68	-51.98	44.05	6.28	35.32	-36.97	-13.00	-23.97	Peak
6	6868.65	-61.57	47.06	7.34	34.20	-41.37	-13.00	-28.37	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	778.59	-66.20	29.27	5.70	29.51	-60.74	-13.00	-47.74	Peak
2	948.05	-63.40	29.13	6.35	29.27	-57.19	-13.00	-44.19	Peak
3	1385.81	-70.73	37.70	7.85	29.03	-54.21	-13.00	-41.21	Peak
4	2264.53	-71.71	40.93	10.48	28.56	-48.86	-13.00	-35.86	Peak
5	5151.68	-51.86	44.06	6.28	35.32	-36.84	-13.00	-23.84	Peak
6	6868.65	-58.48	47.39	7.34	34.20	-37.95	-13.00	-24.95	Peak

Test ch	annel:	Mid	Mid		Polarization:			Horizontal		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark	
	MHZ	dBm	dB	dB	dB	dBm	dBm	limit	t	
1	773.13	-65.00	29.57	5.67	29.49	-59.25	-13.00	-46.29	Peak	
2	948.05	-64.52	29.40	6.35	29.27	-58.04	-13.00	-45.04	Peak	
3	1811.85	-62.33	36.87	9.15	29.05	-45.36	-13.00	-32.36	Peak	
4	2459.02	-66.30	39.50	10.96	27.71	-43.55	-13.00	-30.55	Peak	
5	5191.17	-55.98	43.97	6.31	35.44	-41.14	-13.00	-28.14	Peak	
6	9809.40	-73.44	50.59	9.50	33.53	-46.88	-13.00	-33.88	Peak	
Test ch	annel:	Mid			Polarizatio	on:	Ve	rtical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark	
1	781.33	-71.97	29.30	5.71	29.54	-66.50	-13.00	-53.50	Peak	
2	948.05	-65.30	29.13	6.35	29.27	-59.09	-13.00	-46.09	Peak	
3	1821.83	-63.11	36.68	9.17	29.11	-46.37	-13.00	-33.37	Peak	
4	2575.14	-69.15	39.17	11.32	26.56	-45.22	-13.00	-32.22	Peak	
5	5191.17	-57.86	43.95	6.31	35.44	-43.04	-13.00	-30.04	Peak	
_	6921.30	-63.96	47.37	7.39	34.41	-43.61	-13.00	-30.61	Peak	

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Test channel:		High			Polarization:			Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark	
1	775.86	-68.65	29.66	5.69	29.50	-62.80	-13.00	-49.80	Peak	
2	948.05	-58.78	29.40	6.35	29.27	-52.30	-13.00	-39.30	Peak	
3	1813.84	-62.00	36.89	9.16	29.09	-45.04	-13.00	-32.04	Peak	
4	2127.07	-68.49	40.31	10.03	28.94	-47.09	-13.00	-34.09	Peak	
5	5230.96	-54.33	43.97	6.33	35.61	-39.64	-13.00	-26.64	Peak	
6	6974.36	-64.67	47.53	7.34	34.15	-43.95	-13.00	-30.95	Peak	
Γest cha	annel:	High			Polarizati	on:	Ve	ertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm		Remark	
1	773.13	-65.42	29.21	5.67	29.49	-60.03	-13.00	-47.03	Peak	
2	948.05	-61.49	29.13	6.35	29.27	-55.28	-13.00	-42.28	Peak	
3	1813.84	-62.78	36.60	9.16	29.09	-46.11	-13.00	-33.11	Peak	
4	2632.35	-73.24	39.41	11.44	25.77	-48.16	-13.00	-35.16	Peak	
and the same	5217.66	-52.49	43.94	6.32	35.56	-37.79	-13.00	-24.79	Peak	
5				7.34	34.15	-40.16	-13.00	-27.16	Peak	

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Test channel:		Low			Polarization	n:	Horiz	zontal	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	42.79	-94.01	26.49	1.19	0.00	-66.33	-13.00	-53.33	Peak
2	431.26	-93.22	26.01	4.09	0.00	-63.12	-13.00	-50.12	Peak
3	1388.71	-44.84	37.14	3.07	37.32	-41.95	-13.00	-28.95	Peak
4	2092.18	-53.18	39.99	3.77	37.91	-47.33	-13.00	-34.33	Peak
5	4895.97	-64.91	43.99	6.11	35.90	-50.71	-13.00	-37.71	Peak
6	10971.98	-70.51	52.84	9.99	35.91	-43.59	-13.00	-30.59	Peak
Test ch	annel:	Low			Polarization	າ:	Verti	cal	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	99.52	-95.42	25.76	1.87	0.00	-67.79	-13.00	-54.79	Peak
2	406.23	-93.63	25.29	3.97	0.00	-64.37	-13.00	-51.37	Peak
3	1388.71	-46.74	37.71	3.07	37.32	-43.28	-13.00	-30.28	Peak
4	2493.90	-55.95	39.24	4.19	37.66	-50.18	-13.00	-37.18	Peak
5	6299.18	-66.64	46.12	7.03	34.58	-48.07	-13.00	-35.07	Peak
6	10916.26	-70.01	52.71	9.96	35.92	-43.26	-13.00	-30.26	Peak

Test channel:		Mid			Polarization: Ho			orizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark	
1	41.75	-93.30	26.96	1.18	0.00	-65.16	-13.00	-52.16	Peak	
2	422.26	-93.17	25.99	4.05	0.00	-63.13	-13.00	-50.13	Peak	
3	1399.35	-49.73	37.16	3.08	37.33	-46.82	-13.00	-33.82	Peak	
4	2493.90	-58.58	39.31	4.19	37.66	-52.74	-13.00	-39.74	Peak	
5	4920.96	-66.59	44.08	6.06	35.82	-52.27	-13.00	-39.27	Peak	
6	10833.22	-69.89	52.51	9.92	35.95	-43.41	-13.00	-30.41	Peak	
Test ch	nannel:	Mid			Polarization	on:	Ve	rtical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark	
1	97.78	-94.46	25.78	1.85	0.00	-66.83	-13.00	-53.83	Peak	
2	374.67	-93.89	24.67	3.80	0.00	-65.42	-13.00	-52.42	Peak	
3	1399.35	-50.70	37.76	3.08	37.33	-47.19	-13.00	-34.19	Peak	
4	2493.90	-55.53	39.24	4.19	37.66	-49.76	-13.00	-36.76	Peak	
5	5047.83	-67.15	44.37	6.09	35.45	-52.14	-13.00	-39.14	Peak	
	10400.86	-70.31	51.97	9.71	36.08	-44.71	-13.00	-31.71	Peak	

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Test channel:		High	High			Polarization:			Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark		
1	37.84	-93.97	27.46	1.12	0.00	-65.39	-13.00	-52.39	Peak		
2	442.01	-93.27	26.02	4.15	0.00	-63.10	-13.00	-50.10	Peak		
3	2493.90	-59.70	39.31	4.19	37.66	-53.86	-13.00	-40.86	Peak		
4	4996.69	-66.90	44.35	6.09	35.75	-52.21	-13.00	-39.21	Peak		
5	7820.82	-69.86	47.91	7.83	33.79	-47.91	-13.00	-34.91	Peak		
6	10833.22	-70.04	52.51	9.92	35.95	-43.56	-13.00	-30.56	Peak		
Test ch	nannel:	High			Polarizatio	n:	Ver	tical			
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark		
1	100.57	-95.32	25.67	1.88	0.00	-67.77	-13.00	-54.77	Peak		
2	401.97	-94.12	25.26	3.94	0.00	-64.92	-13.00	-51.92	Peak		
3	1410.08	-46.24	37.76	3.09	37.35	-42.74	-13.00	-29.74	Peak		
4	2493.90	-56.47	39.24	4.19	37.66	-50.70	-13.00	-37.70	Peak		
5	5047.83	-65.96	44.37	6.09	35.45	-50.95	-13.00	-37.95	Peak		
6	10833.22	-69.51	52.64	9.92	35.95	-42.90	-13.00	-29.90	Peak		

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Test channel:		Low			Polarization	on:	Но	rizontal	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	38.78	-94.25	27.60	1.13	0.00	-65.52	-13.00	-52.52	Peak
2	451.43	-94.40	25.93	4.20	0.00	-64.27	-13.00	-51.27	Peak
3	1545.41	-44.26	36.27	3.19	37.47	-42.27	-13.00	-29.27	Peak
4	3653.46	-67.83	42.34	5.09	37.12	-57.52	-13.00	-44.52	Peak
5	7394.88	-71.13	48.53	7.78	34.45	-49.27	-13.00	-36.27	Peak
6	9784.47	-71.28	50.54	9.48	33.44	-44.70	-13.00	-31.70	Peak
Test channel:		Low			Polarization	on:	Ve	rtical	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over	Remark
1	93.74	-94.65	25.84	1.81	0.00	-67.00	-13.00	-54.00	Peak
2	472.55	-93.84	25.45	4.31	0.00	-64.08	-13.00	-51.08	Peak
3	1549.34	-49.59	37.76	3.19	37.45	-46.09	-13.00	-33.09	Peak
4	3700.26	-66.43	42.32	5.19	37.04	-55.96	-13.00	-42.96	Peak
5	7781.10	-70.96	48.53	7.82	33.73	-48.34	-13.00	-35.34	Peak
6	10916.26	-70.16	52.71	9.96	35.92	-43.41	-13.00	-30.41	Peak

Test ch	annel:	Mid			Polarization:			lorizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark	
1	38.78	-92.25	27.60	1.13	0.00	-63.52	-13.00	-50.52	Peak	
2	410.54	-91.89	25.71	3.99	0.00	-62.19	-13.00	-49.19	Peak	
3	1565.20	-42.89	36.16	3.20	37.40	-40.93	-13.00	-27.93	Peak	
4	3010.83	-67.15	41.06	4.70	37.35	-58.74	-13.00	-45.74	Peak	
5	6379.86	-70.28	46.03	7.15	34.32	-51.42	-13.00	-38.42	Peak	
6	9784.47	-72.28	50.54	9.48	33.44	-45.70	-13.00	-32.70	Peak	
Test ch	annel:	Mid			Polarization	on:	Ve	ertical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark	
1	93.74	-91.65	25.84	1.81	0.00	-64.00	-13.00	-51.00	Peak	
2	505.20	-96.27	26.14	4.46	0.00	-65.67	-13.00	-52.67	Peak	
3	1565.20	-49.71	37.76	3.20	37.40	-46.15	-13.00	-33.15	Peak	
4	2162.57	-65.13	41.11	3.94	37.63	-57.71	-13.00	-44.71	Peak	
5	7081.70	-68.78	47.88	7.45	33.91	-47.36	-13.00	-34.36	Peak	
6	10833.22	-71.15	52.64	9.92	35.95	-44.54	-13.00	-31.54	Peak	

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Test ch	annel:	High			Polarization: Ho			rizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark	
1	39.75	-94.04	27.74	1.15	0.00	-65.15	-13.00	-52.15	Peak	
2	425.24	-93.19	26.00	4.06	0.00	-63.13	-13.00	-50.13	Peak	
3	1553.29	-47.11	36.23	3.19	37.43	-45.12	-13.00	-32.12	Peak	
4	3893.52	-62.84	41.73	5.30	37.10	-52.91	-13.00	-39.91	Peak	
5	4996.69	-65.93	44.35	6.09	35.75	-51.24	-13.00	-38.24	Peak	
6	10971.98	-70.80	52.84	9.99	35.91	-43.88	-13.00	-30.88	Peak	
Test ch	annel:	High			Polarizatio	n:	Vei	rtical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark	
1	97.78	-93.92	25.78	1.85	0.00	-66.29	-13.00	-53.29	Peak	
2	428.24	-93.32	25.47	4.08	0.00	-63.77	-13.00	-50.77	Peak	
3	1553.29	-51.50	37.76	3.19	37.43	-47.98	-13.00	-34.98	Peak	
4	2493.90	-61.28	39.24	4.19	37.66	-55.51	-13.00	-42.51	Peak	
5	7820.82	-70.30	48.46	7.83	33.79	-47.80	-13.00	-34.80	Peak	
	10348.05	-68.99	51.78	9.68	36.09	-43.62	-13.00	-30.62	Peak	

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# 6. TEST SETUP PHOTOS OF THE EUT



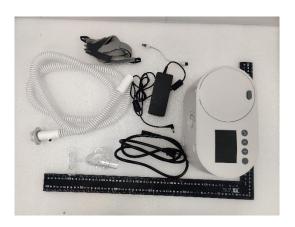




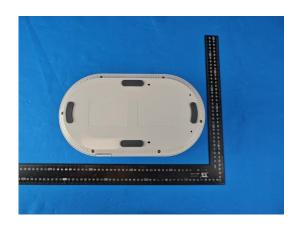
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# 7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

## 7.1. External Photos









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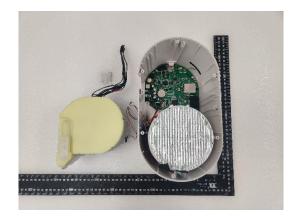




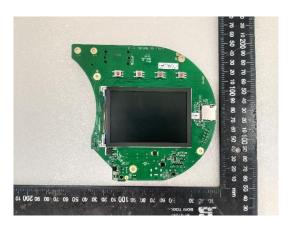


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## 7.2. Internal Photos

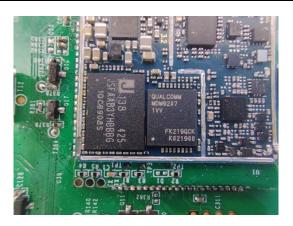








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# 8. APPENDIX REPORT