



No.:

GJW2024-0210

TEST REPORT

FCC ID : 2A3T2RS001-2-G

NAME OF SAMPLE : WEARABLE CARDIO-RESPIRATORY MONITORING

SYSTEM

APPLICANT : Respiree Pte Ltd

CLASSIFICATION OF TEST : N/A

CVC Testing Technology Co., Ltd.

Applicant		Name: Respiree Pte Ltd Address: 176 Orchard Rd Singapore 238843 Singapore							
Manufacturer		Name: Respiree Pte Ltd							
		Address: 176 Or	Address: 176 Orchard Rd Singapore 238843 Singapore						
		Name: WEARAB	Name: WEARABLE CARDIO-RESPIRATORY MONITORING SYSTEM						
		Model/Type: RS001.2.G							
Equipment Under	Test	Brand: N/A							
_qp		Serial NO.: N/A							
Date of Receipt.	2024.01	Sample NO.: 1-1	Date of Test	ina	2024.11.2	1			
			9						
Test Spe	cification	Test Result							
47 CFR	Part 2								
47 CFR	Part 22		PASS						
	Part 90		FASS						
ANSI/TI		_							
ANSI C63	3.26-2015		ment under test was found to comply with the						
					-	ory with the			
		requirements of	the standards	аррпе	u.				
Evaluation of Test Resu	ılt				Seal of	f CVC			
					Issue	Date:2024-11-21			
Approved by:		Reviewed by:		Test	ed by:				
Chen Huawen		Xu	Zhenfei		Lu We	eiji			
Charlinave		×	u Zhanfei		LuWeiJi				
Name Signatu	ıre	Name	Signature		Name	Signature			
Other Aspects: NONE.									
Abbreviations:OK, Pass= passed	Fa	ail = failed N/A= no	ot applicable El	UT= equip	ment, sample(s)	under tested			

NOTE:1.This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC. 2.This report determines that uncertainty is not taken into account.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
GJW2024-0210	Original release	2024.11.21

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications

1.1 LTE Band B26 (814~824MHz)

FCC PART SECTION	TEST TYPE AND LIMIT LIMIT		Report Section	RESULT	
00.4040			GJW2024-0210-	Report	
§2.1046	Conducted power output		Appendix	Only	
			GJW2024-0210-		
§90.635(b)	Equivalent Radiated Power	ERP < 100Watt	Appendix	PASS	
00.4040			GJW2024-0210-	Report	
§2.1049	Occupied Bandwidth		Appendix	Only	
		40.15	GJW2024-0210-	5400	
	Peak-to-Average Power Ratio	<13 dB	Appendix	PASS	
§2.1055	- 0. 1 W	Within authorized bands of	GJW2024-0210-	5400	
§90.213	Frequency Stability	operation/frequency block.	Appendix	PASS	
§2.1051	5 151 6 "			5400	
§90.691	Band Edge Compliance	< 43+10log10(P[Watts])	Appendix	PASS	
§2.1051		40 401 40/504/ ((1)	GJW2024-0210-	D.4.00	
§90.691	Conducted Spurious Emission	< 43+10log10(P[Watts])	Appendix	PASS	
§2.1051	5 6 . 5	40 401 40(504) (13)	0	5400	
§90.691	Radiates Spurious Emission	< 43+10log10(P[Watts])	See section 3.1 and 3.8	PASS	

1.2 LTE Band B26 (824~849MHz)

FCC PART SECTION	TEST TYPE AND LIMIT	LIMIT	Report Section	RESULT
§2.1046	Conducted power output		GJW2024-0210- Appendix	Report Only
§22.913(a)(5)	Equivalent Radiated Power	ERP < 7Watt	GJW2024-0210- Appendix	PASS
§2.1049	Occupied Bandwidth		GJW2024-0210- Appendix	Report Only
	Peak-to-Average Power Ratio	<13 dB	GJW2024-0210- Appendix	PASS
§2.1055 §22.355	Frequency Stability	< 2.5 ppm	GJW2024-0210- Appendix	PASS
§2.1051 §22.917	Band Edge Compliance	< 43+10log10(P[Watts])	GJW2024-0210- Appendix	PASS
§2.1051 §22.917	Conducted Spurious Emission	< 43+10log10(P[Watts])	GJW2024-0210- Appendix	PASS
§2.1051 §22.917	Radiates Spurious Emission	< 43+10log10(P[Watts])	See section 3.1 and 3.8	PASS

1.3 1.7 LIST OF TEST AND MEASUREMENT INSTRUMENTS

Radiated Emission Test - 3M Chamber										
Equipment listTest Equipment	Type/Mode	Equipment No.	ManµFacturer	Cal. Due						
3m Semi-Anechoic Chamber	FACT-4	WKNA-0024	ETS	2024/12/12						
Spectrum Analyzer	N9010B	DZ-000174	KEYSIGHT	2025/01/02						
EMI Test Receiver	N9038A-508	EM-000397	Agilent	2025/01/13						
Broadband Antenna	VULB 9163	EM-000342	SCHWARZBECK	2025/06/07						
Waveguide Horn Antenna	HF906	WKNA-0024-8	R&S	2025/01/13						
Waveguide Horn Antenna	BBHA9170	DZ-000209-2	SCHWARZBECK	2025/08/03						
Preamplifier	BBV 9721	DZ-000209-1	SCHWARZBECK	2025/06/02						
Comprehensive tester	CMW500	DZ-000240-2	R&S	2024/12/03						
	GSM/V	VCDMA/LTE Test System	em							
Equipment listTest Equipment	Type/Mode	Equipment No.	ManµFacturer	Cal. Due						
Communication Shielded Room 1	4m*3m*3m	VGDS-0699	CRT	2027/03/28						
Spectrum Analyzer	FSV30	DZ-000235	R&S	2024/12/03						
Comprehensive Test Instrument	CMW500	DZ-000342	R&S	2024/12/03						
Analog Signal Generator	SMA100B	DZ-000239-2	R&S	2025/09/01						
Vector Signal Generator	SMBV100B	DZ-000239-1	R&S	2025/04/27						
Programmable DC Power Supply	E3642A	DZ-000242-2	KEYSIGHT	2025/08/02						

The calibration interval of the above Shielding room, Anechoic chamber and Control room is 36 months.
 The calibration interval of the above test instruments is 12 months.

Radiated Emission test software								
Software name	Software version	Software Developer						
JS36-RSE Radiation stray test	2.5.1.2	Shenzhen JS tonscend						
system	2.5.1.2	co.,ltd						
GSN	GSM/WCDMA/LTE test software							
Software name	Software version	Software Developer						
IS1120 DE Auto Toot System	3.1.46	Shenzhen JS tonscend						
JS1120 RF Auto Test System	J. 1.40	co.,ltd						

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2 GENERAL INFORMATION

2.1 GENERAL PRODUCT INFORMATION

PRODUCT	WEARABLE CARDIO-RESPIRATORY MONITORING SYSTEM			
BRAND	N/A			
MODEL	RS001.2.G			
ADDITIONAL MODEL	N/A			
FCC ID	2A3T2RS001-2-G			
POWER SUPPLY	DC9V 2A			
MODULATION TYPE	LTE QPSK, 16QAM			
LTE BAND	B26			
OPERATING FREQUENCY	See section 2.3			
MAXIMUM OUTPUT POWER	See section 2.3			
ANTENNA TYPE AND GAIN	See section 2.2			
(Remark 4/5)	See Section 2.2			
HARDWARE VERSION:	RS001.2.G Rev 1			
SOFTWARE VERSION:	RS001.2.G Ver 4/4.1			
I/O PORTS	Refer to user's manual			

Remark:

- The Equipment Under Test(s)(EUT(s))is a WEARABLE CARDIO-RESPIRATORY MONITORING
 SYSTEM. It comprises of hardware;cardio-respiratory monitor and gateway.
- For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- 4. Please refer to the EUT photo document (Reference No.: GJW2024-0210-EUT) for detailed product photo.
- 5. Please refer to the antenna report.
- 6. Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, CVC is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.

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2.2 ANTENNA TYPE AND GAIN

Mada	e Bond	Antenn	Antenna Gain(dBi)			
Mode Band		Main	Diversity	Main	Diversity	
LTE	LTE B26	External Antenna	External Antenna	3.0	N/A	

2.3 OPERATING FREQUENCY AND MAX CONDUTED POWER

Mode	Band	TX(MHz)	RX(MHz)	Maximum Output Power (dBm)
LTE	LTE B26	814~ 849	859 ~ 894	21.63

2.4 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports.

EUT CONFIGURE MODE	DESCRIPTION
-	EUT with LTE link

Test modes are chosen as the worst case configuration below for LTE

Test items	LTE	Bandwidth (MHz)					Modulation			RB			Test Channel			
	LIE	1.4	3	5	10	15	20	QPSK	16 QAM	64 QAM	1%	50%	100%	L	M	Н
RF power output	26	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0
Note	2. The	1. The mark "O" means that this configuration is chosen for testing. 2. The mark "-" means that this configuration is not testing. 3. Only the worst case was shown in test report														

Test items	LTE		Ва	ndw	idth (N	ИHz)		Me	odulation	า		RB		С	Test hann	el
rest items	LIL	1.4	3	5	10	15	20	QPSK	16 QAM	64 QAM	1%	50%	100%	L	M	н
ERP/ EIRP (Note3)	26	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0
Note	2. The	mark	mark "O" means that this configuration is chosen for testing. mark "-" means that this configuration is not testing. the worst case was shown in test report													

Test items	LTE		Ва	ndw	idth (N	ИHz)		M	odulation	1		RB		С	Test hann	el
	LIE	1.4	3	5	10	15	20	QPSK	16 QAM	64 QAM	1%	50%	100%	L	М	Н
Occupied Bandwidth	26	0	0	0	0	0	-	0	0	0	-	-	0	0	0	0
Note	2. The	mark	mark "O" means that this configuration is chosen for testing. mark "-" means that this configuration is not testing. the worst case was shown in test report													

Test items	LTE		Ва	ndwi	idth (N	ИHz)		M	odulation	า		RB		С	Test hann	el
rest items	LIE	1.4	3	5	10	15	20	QPSK	16 QAM	64 QAM	1%	50%	100%	Г	M	Н
Band Edge Compliance	26	0	0	0	0	0	-	0	-	-	0	-	0	0	-	0
Note	2. The	e mark "O" means that this configuration is chosen for testing. e mark "-" means that this configuration is not testing. ly the worst case was shown in test report														

Test items	LTE		Ва	ndw	idth (l	MHz)		Me	odulatio	n		RB		C	Test hann	el
rest items	LIE	1.4	3	5	10	15	20	QPSK	16 QAM	64 QAM	1%	50%	100%	L	M	Н
Peak-to- Average Power Ratio	26	О	o	0	0	0	-	0	0	0	o	-	0	o	0	0
Note	2. The	The mark "O" means that this configuration is chosen for testing. The mark "-" means that this configuration is not testing. Only the worst case was shown in test report														

	LTE		Ва	ndw	idth (N	ИHz)		Me	odulation	า		RB		С	Test hann	el
Test items	LIE	1.4	3	5	10	15	20	QPSK	16 QAM	64 QAM	1%	50%	100%	L	M	н
	26	-	-	-	-	0	-	0	-	-	-	-	0	0	0	0
Note	2. The	. The mark "O" means that this configuration is chosen for testing. 2. The mark "-" means that this configuration is not testing. 3. Only the worst case was shown in test report														

Test items	LTE		Ва	ndwi	idth (N	ИHz)		M	odulation	า		RB		С	Test hann	el
	LIE	1.4	3	5	10	15	20	QPSK	16 QAM	64 QAM	1%	50%	100%	Г	M	Н
Conducted Spurious Emission	26	0	o	0	0	0	-	0	-	-	0		-	0	0	0
Note	2. The	The mark "O" means that this configuration is chosen for testing. The mark "-" means that this configuration is not testing. Only the worst case was shown in test report														

Test items	LTE		Ва	ndwi	idth (l	MHz)		M	odulatio	n		RB		C	Test hann	el
rest items	LIE	1.4	3	5	10	15	20	QPSK	16 QAM	64 QAM	1%	50%	100%	Ь	М	Н
Radiates Spurious Emission (Note3)	26	0	o	0	0	o	-	0	-	-	o	-	-	o	o	0
Note	2. The	e mark "O" means that this configuration is chosen for testing. e mark "-" means that this configuration is not testing. ly the worst case was shown in test report														

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RF power output	22deg. C, 65%RH	DC 9V	Chen Jiaxin
Effective Radiated Power	22deg. C, 65%RH	DC 9V	Chen Jiaxin
Equivalent Isotropic Radiated Power	22deg. C, 65%RH	DC 9V	Chen Jiaxin
Frequency Stability	22deg. C, 65%RH	DC 9V	Chen Jiaxin
Occupied Bandwidth	22deg. C, 65%RH	DC 9V	Chen Jiaxin
Band Edge Compliance	22deg. C, 65%RH	DC 9V	Chen Jiaxin
Conducted Spurious Emission	22deg. C, 65%RH	DC 9V	Chen Jiaxin
Radiates Spurious Emission	23deg. C, 63%RH	DC 9V	Chen Jiaxin
Peak-to-Average Power Ratio	22deg. C, 65%RH	DC 9V	Chen Jiaxin

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2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. It must comply with the requirements of the following standards:

FCC 47 CFR PART 2

FCC 47 CFR PART 22

FCC 47 CFR PART 90

KDB 971168 D01 POWER MEAS LICENSE DIGITAL SYSTEMS V03R01

ANSI/TIA-603-E

ANSI C63.26-2015

ANSI C63.4-2014

Note: All test items have been performed and recorded as per the above standards

2.6 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

			Sup	port Equipmen	t									
NO	Description	В	rand	Model No.	Serial N	umber	5	Supplied by						
1	N/A		N/A	N/A	N/A	١		N/A						
	Support Cable													
NO	Description	Quantity (Number)	Length (cm)	Detachable (Yes/ No)	Shielded (Yes/ No)	Cores (Numbe		Supplied by						
1	N/A	N/A	N/A	N/A	N/A	N/A		N/A						

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2.7 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

No.	Item	Measurement Uncertainty							
1	Occupied Channel Bandwidth	±1.86 %							
2	RF output power, conducted	±0.651 dB							
3	Power Spectral Density, conducted	±0.8 dB							
4	Conducted emission test	+/-1.427 dB							
5	Radiated emission	+/-2.1618 dB							
6	Temperature	±0.73 °C							
7	Humidity	±3.90 %							
8	Supply voltages	±0.37 %							
9 Time ±0.27 %									
Remai	k: 95% Confidence Levels, <i>k</i> =2.								

2.8 TEST LOCATION

The tests and measurements refer to this report were performed by RF testing Lab. of CVC Testing Technology Co., Ltd.

Add.: No.3, Tiantaiyi Road, Kaitai Avenue, Science City, Guangzhou, Guangdong, 510663, People's Republic of China

Telephone: +86-20-32293888 Fax: +86-20-32293889

FCC(Test firm designation number : CN1282)

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3 TEST TYPES AND RESULTS

3.1 RADIATED EMISSION MEASUREMENT

3.1.1 TEST PROCEDURES

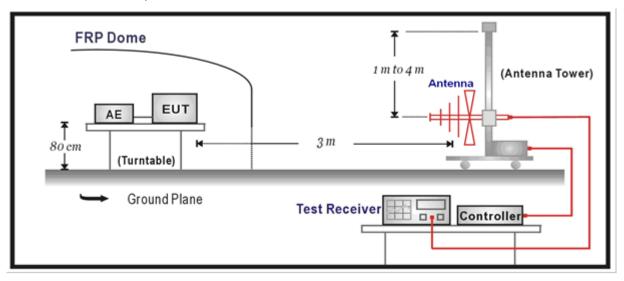
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- c. EIRP(dBm) = S.G.POWER TX cable loss + Antenna gain.
- d. E.R.P(dBm) = E.I.P.R 2.15dBi.

NOTE:

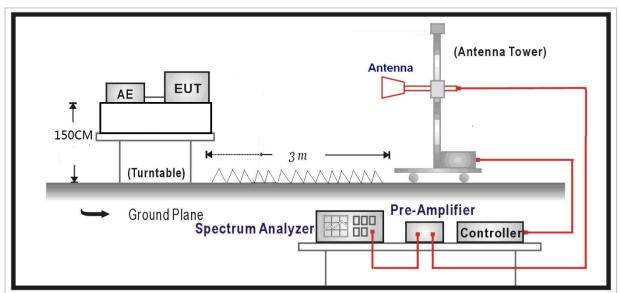
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.
- 2. Only the worst case was shown in test report

3.1.2 TEST SETUP

Below 1GHz Test Setup:



Above 1GHz Test Setup:



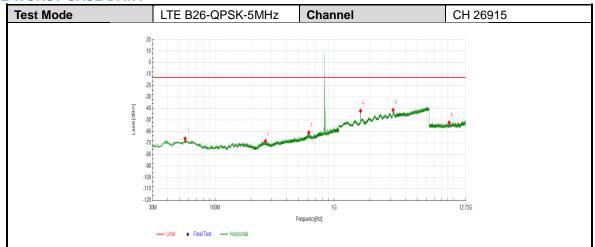
Note: Above 1G is a directional antenna

Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

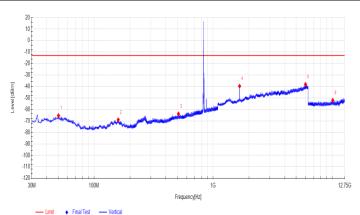
3.1.3 TEST RESULTS

THE WORST CASE DATA



Horizontal

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	56.1106	-93.10	-66.29	-13.00	53.29	26.81	204
2	265.2095	-91.64	-68.42	-13.00	55.42	23.22	234
3	613.4223	-91.63	-61.03	-13.00	48.03	30.60	326
4	1668.2136	-55.62	-42.08	-13.00	29.08	13.54	204
5	3132.0132	-66.75	-41.34	-13.00	28.34	25.41	34
6	9260.2010	-70.21	-52.34	-13.00	39.34	17.87	175



Vertical

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]
1	50.2250	-92.81	-65.30	-13.00	52.30	27.51	263
2	159.6970	-93.90	-68.95	-13.00	55.95	24.95	0
3	511.9762	-92.22	-63.86	-13.00	50.86	28.36	356
4	1668.5937	-53.63	-39.68	-13.00	26.68	13.95	199
5	5973.9274	-65.98	-38.10	-13.00	25.10	27.88	33
6	10117.4917	-72.44	-51.97	-13.00	38.97	20.47	172

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.

- 2. Level (dBm) = Reading (dBm) + Factor (dB).
- 3. Margin(dB) = Limit[dBm] Level [dBm]

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3.2 Out power Measurement

3.2.1 TEST PROCEDURES

Subclause 5.6 of Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for determing the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

EIRP = PT + GT - LC, ERP= EIRP - 2.15dBi, where

PT = transmitter output power dBm;

GT = gain of the transmitting antenna dBi;

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

CONDUCTED POWER MEASUREMENT:

The EUT was set up for the maximum power with LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

3.2.2 TEST SETUP

EIRP / ERP Measurement:

CONDUCTED POWER MEASUREMENT:



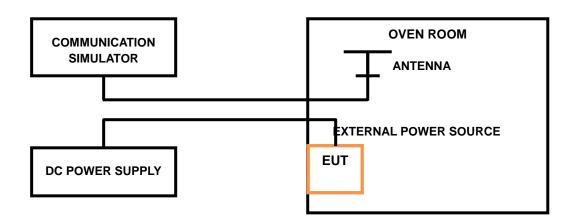
3.3 Frequency Stability

3.4.2 TEST PROCEDURE

- a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ± 0.5 °C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

3.4.2 TEST SETUP

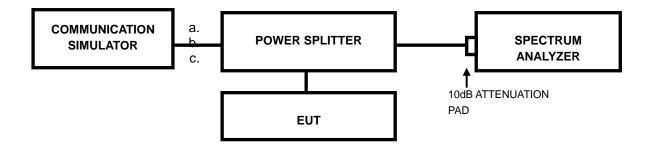


3.4 Occupied Bandwidth MEASUREMENT

3.4.1 TEST PROCEDURES

The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

3.4.2 TEST SETUP



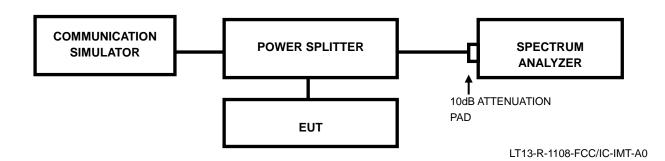
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3.5 Band Edge MEASUREMENT

3.5.1 TEST PROCEDURES

- a. All measurements were done at low and high operational frequency range.
- b. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 30kHz and VBW of the spectrum is 100kHz. (LTE bandwidth 1.4MHz).
- c. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 30kHz and VBW of the spectrum is 100kHz. (LTE bandwidth 3MHz).
- d. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 100kHz and VBW of the spectrum is 300kHz. (LTE bandwidth 5MHz).
- e. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 100kHz and VBW of the spectrum is 300kHz. (LTE bandwidth 10MHz).
- f. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 200kHz and VBW of the spectrum is 600kHz. (LTE bandwidth 15MHz).
- g. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz. RBW of the spectrum is 300kHz and VBW of the spectrum is 1000kHz. (LTE bandwidth 20MHz).
- h. Set the spectrum with RMS detector.
- i. Record the AVG trace plot into the test report.

3.5.2 TEST SETUP

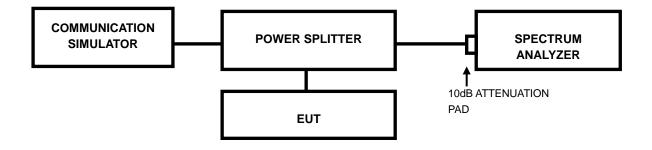


3.6 Conducted Spurious Emissions

3.6.1 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- b. Measuring frequency range is from 30 MHz up to a frequency inclouding its 10th harmocin. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

3.6.2 TEST SETUP



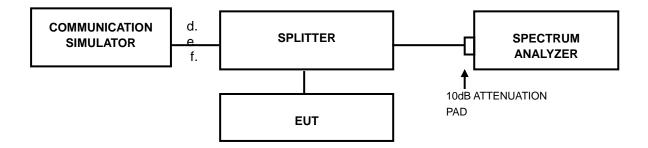
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3.7 Peak to average ratio

3.7.1 TEST PROCEDURES

- 1. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- 2. Set the number of counts to a value that stabilizes the measured CCDF curve;
- 3. Record the maximum PAPR level associated with a probability of 0.1%.

3.7.2 TEST SETUP



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4 PHOTOGRAPHS OF TEST SETUP

Please refer to the attached file (Test Setup Photo).

----- End of the Report -----

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Important

- 1. The test report is invalid without the official stamp of CVC;
- 2. Any part photocopies of the test report are forbidden without the written permission from CVC;
- 3. The test report is invalid without the signatures of Author and Reviewer;
- 4. The test report is invalid if altered;
- 5. Objections to the test report must be submitted to CVC within 15 days;
- 6. Generally, commission test is responsible for the tested samples only;
- 7. As for the test result, "—" or " N/A" means "not applicable", " / "means "not testing", "P" means "pass" and "F" means "fail".

Address: No.3, Tiantaiyi Road, Kaitai Avenue, Science City, Guangzhou, China (Test location)

Post Code: 510663 Tel: 020-32293888

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^{**}The test data and test results given in this test report should only be used for purposes of scientific research, teaching and internal quality control when the CMA symbol is not presented.**