

FCC Radio Partial Test Report

FCC ID: 2AYGCLGE-NX9

This report concerns: Original Grant

Project No. : 2203G019
Equipment : Smart Phone
Brand Name : HONOR
Test Model : LGE-NX9
Series Model : N/A
Applicant : Honor Device Co., Ltd.
Address : Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China
Manufacturer : Honor Device Co., Ltd.
Address : Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China
Date of Receipt : Feb. 14, 2022
Date of Test : Feb. 14, 2022 ~ Apr. 14, 2022
Issued Date : Apr. 20, 2022
Report Version : R00
Standard(s) : 47 CFR FCC Part 24 Subpart E
47 CFR FCC Part 2
ANSI C63.26-2015
ANSI/TIA/EIA-603-E-2016
FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

Gabriel Zhu

Prepared by : Gabriel Zhu

Steven Lu

Approved by : Steven Lu



TESTING CERT #5123.02

Add: No. 3 Jinshagang 1st Rd. Shixia, Dalang Town Dongguan City, Guangdong 523792

People's Republic of China.

Tel: +86-769-8318-3000

Web: www.newbtl.com

Declaration

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BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and is not use in determining the Pass/Fail results.

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2203G019	R00	Original Report.	Apr. 20, 2022	Valid

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part 24 Subpart E & Part 2			
Standard(s) Section	Test Item	Judgment	Remark
2.1046 24.232(c)	Output Power & Equivalent Isotropic Radiated Power	PASS	-----
2.1049	Occupied Bandwidth	PASS	-----
2.1051 24.238(a)	Conducted Spurious Emissions	PASS	-----
2.1047	Modulation Characteristics	PASS	-----
24.238(a)	Band Edge Measurements	PASS	-----
24.232(d)	Peak To Average Ratio	PASS	-----
2.1055 24.235	Frequency Stability	PASS	-----

Note:

(1) "N/A" denotes test is not applicable in this test report.

1.1 TEST FACILITY

The test facilities used to collect the test data of conducted in this report is at the location of Room 108, Building 2, No.1, Yile Road, Songshan Lake Zone, Dongguan City, Guangdong, People's Republic of China.

BTL's Test Firm Registration Number for FCC: 357015
 BTL's Designation Number for FCC: CN1240

1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

The BTL measurement uncertainty as below table:

Parameter	Uncertainty
Transmit Output Power Output Data	U = 0.40 dB
RF Power Density, Conducted	U = 0.66 dB
Bandwidth	200kHz: U=9.06kHz 1.4MHz: U=9.48kHz 3MHz: U= 10.86kHz 5MHz: U=13.84kHz 10MHz: U=22.32kHz 15MHz: U=31.9kHz 20MHz: U=41.78kHz
Band Edge Compliance	U = 0.9 dB
Spurious Emissions, Conducted	20MHz~3.6GHz: U=0.88dB 3.6GHz~8.4GHz: U=1.08dB 8.4GHz~13.6GHz: U=1.24dB 13.6GHz~22GHz: U=1.34dB 22GHz~26.5GHz: U=1.36dB
Frequency Stability	800MHz: U=24.08Hz 900MHz: U=24.54Hz 1900MHz: U=34.7Hz 2100MHz: U=36.96Hz 2300MHz: U=39.24Hz 2500MHz: U=41.58Hz 2600MHz: U=42.74Hz

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
Output Power & EIRP	0 ~ 35°C	25 ~ 75%	DC 3.87V	Rick Liao
Occupied Bandwidth	0 ~ 35°C	25 ~ 75%	DC 3.87V	Rick Liao
Conducted Spurious Emissions	0 ~ 35°C	25 ~ 75%	DC 3.87V	Rick Liao
Band Edge	0 ~ 35°C	25 ~ 75%	DC 3.87V	Rick Liao
Peak to Average Ratio	0 ~ 35°C	25 ~ 75%	DC 3.87V	Rick Liao
Frequency Stability	Normal & Extreme	25 ~ 75%	Normal & Extreme	Rick Liao

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Smart Phone		
Brand Name	HONOR		
Test Model	LGE-NX9		
Series Model	N/A		
Model Difference(s)	N/A		
Hardware Version	HN1LGEHM		
Software Version	6.0.0.108(C900E103R1P3)		
Power Source	1# DC voltage supplied from AC adapter. 2# Supplied from battery.		
Power Rating	1# I/P: 100-240V~ 50/60Hz 1.6A O/P: 5V \equiv 2A or 10V \equiv 4A or 20V \equiv 5A Max 2# DC 3.87V, Rated Capacity:4500mAh		
IMEI No.	867843050038442, 867843050038392		
Modulation Type	GSM 1900 / GPRS 1900/ EDGE 1900	GMSK, 8PSK	
	WCDMA/HSDPA/HSUPA	UL: QPSK	
	LTE	UL: QPSK, 16QAM, 64QAM	
Max. EIRP	GSM 1900	26.36	dBm
	WCDMA Band II	21.30	dBm
	LTE Band 2	21.81	dBm
	LTE Band 25	21.23	dBm

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

PCS 1900(UL:1850-1910MHz, DL:1930-1990MHz)				
Test Frequency ID	UARFCN	Frequency of Uplink (MHz)	UARFCN	Frequency of Downlink (MHz)
Low Range	512	1850.2	528	1930.2
Mid Range	661	1880	677	1960
High Range	810	1909.8	826	1989.8

WCDMA Band II(UL:1850-1910MHz, DL:1930-1990MHz)				
Test Frequency ID	UARFCN	Frequency of Uplink (MHz)	UARFCN	Frequency of Downlink (MHz)
Low Range	9262	1852.4	9662	1932.4
Mid Range	9400	1880.0	9800	1960.0
High Range	9538	1907.6	9938	1987.6

LTE Band 2(UL:1850-1910MHz, DL:1930-1990MHz)					
Test Frequency ID	Bandwidth (MHz)	N _{UL}	Frequency of Uplink (MHz)	N _{DL}	Frequency of Downlink (MHz)
Low Range	1.4	18607	1850.7	607	1930.7
	3	18615	1851.5	615	1931.5
	5	18625	1852.5	625	1932.5
	10	18650	1855	650	1935
	15	18675	1857.5	675	1937.5
	20	18700	1860	700	1940
Mid Range	1.4/3/5/10/15/20	18900	1880	900	1960
High Range	1.4	19193	1909.3	1193	1989.3
	3	19185	1908.5	1185	1988.5
	5	19175	1907.5	1175	1987.5
	10	19150	1905	1150	1985
	15	19125	1902.5	1125	1982.5
	20	19100	1900	1100	1980




LTE Band 25(UL:1850-1915MHz, DL:1930-1995MHz)					
Test Frequency ID	Bandwidth (MHz)	N _{UL}	Frequency of Uplink (MHz)	N _{DL}	Frequency of Downlink (MHz)
Low Range	1.4	26047	1850.7	8047	1930.7
	3	26055	1851.5	8055	1931.5
	5	26065	1852.5	8065	1932.5
	10	26090	1855	8090	1935
	15	26115	1857.5	8115	1937.5
	20	26140	1860	8140	1940
Mid Range	1.4/3/5/10/15/20	26365	1882.5	8365	1962.5
High Range	1.4	26683	1914.3	8683	1994.3
	3	26675	1913.5	8675	1993.5
	5	26665	1912.5	8665	1992.5
	10	26640	1910	8640	1990
	15	26615	1907.5	8615	1987.5
	20	26590	1905	8590	1985

3. Table for Filed Antenna:

Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
N/A	N/A	Integral	N/A	-2.1	GSM 1900
				-3.2	WCDMA Band II
				-3.2	LTE Band 2
				-3.2	LTE Band 25

Note: The antenna gain is provided by the manufacturer.

4. The EUT contains following accessory devices:

Object / Part No.	Manufacturer / Trademark	Type / Model Name	Technical Data
Adapter	HONOR Device Co., Ltd.	HN-200500E01	I/P: 100-240V ~50/60Hz, 1.6A O/P: 5V  2A or 10V  4A or 20V  5A Max
		HN-200500U01	
		HN-200500B01	
Battery	Shenzhen Sunwoda Intelligence Technology Co., Ltd.	HB586680EFW	Rated capacity: 4500 mAh Nominal Voltage: +3.87V Charging Voltage: +4.45V
	Scud (Fujian) Electronics Co., Ltd.		

2.2 DESCRIPTION OF TEST MODES

Test Modes in the report are described below:

Test Mode	Test Modes Description
GSM/TM1	GSM system, GSM, GMSK modulation
GSM/TM2	GSM system, GPRS, GMSK modulation
GSM/TM3	GSM system, EDGE, 8PSK modulation
WCDMA/TM1	WCDMA system, QPSK modulation
LTE/TM1	LTE system, QPSK modulation
LTE/TM2	LTE system, 16QAM modulation
LTE/TM3	LTE system, 64QAM modulation

Note: The test mode(s) are selected according to relevant radio technology specifications.

Following mode(s) is (were) found to be the worst case(s) and selected for the final test.

PCS 1900 MODE			
Test Item	Available Channel	Tested Channel	Mode
Output Power & EIRP	512 to 810	512, 661, 810	GSM, GPRS, EDGE
Peak to Average Ratio	512 to 810	512, 661, 810	GSM, GPRS, EDGE
Modulation Characteristics	512 to 810	661	GSM, GPRS, EDGE
Occupied Bandwidth	512 to 810	512, 661, 810	GSM, GPRS, EDGE
Band Edge	512 to 810	512, 810	GSM, GPRS, EDGE
Conducted Spurious Emissions	512 to 810	512, 661, 810	GSM, GPRS, EDGE
Frequency Stability	512 to 810	512, 661, 810	GSM, GPRS, EDGE

WCDMA BAND II MODE			
Test Item	Available Channel	Tested Channel	Mode
Output Power & EIRP	9262 to 9538	9262, 9400, 9538	WCDMA
Peak to Average Ratio	9262 to 9538	9262, 9400, 9538	WCDMA
Modulation Characteristics	9262 to 9538	9400	WCDMA
Occupied Bandwidth	9262 to 9538	9262, 9400, 9538	WCDMA
Band Edge	9262 to 9538	9262, 9538	WCDMA
Conducted Spurious Emissions	9262 to 9538	9262, 9400, 9538	WCDMA
Frequency Stability	9262 to 9538	9262, 9400, 9538	WCDMA

LTE BAND 2 MODE					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	1RB/6RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1RB/25RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	1RB/100RB
Occupied Bandwidth	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM, 64QAM	6RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM, 64QAM	15RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM, 64QAM	25RB
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM, 64QAM	50RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM, 64QAM	75RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM, 64QAM	100RB
Conducted Spurious Emissions	18607 to 19193	18607, 18900, 19193	1.4 MHz	QPSK, 16QAM	1RB/6RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1RB/25RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	1RB/100RB
Band Edge	18607 to 19193	18607, 19193	1.4MHz	QPSK, 16QAM, 64QAM	1RB/6RB
	18625 to 19175	18625, 19175	5MHz	QPSK, 16QAM, 64QAM	1RB/25RB
	18700 to 19100	18700, 19100	20MHz	QPSK, 16QAM, 64QAM	1RB/100RB
Peak To Average Ratio	18607 to 19193	18900	1.4MHz	QPSK, 16QAM, 64QAM	1RB/6RB
	18625 to 19175	18900	5MHz	QPSK, 16QAM, 64QAM	1RB/25RB
	18700 to 19100	18900	20MHz	QPSK, 16QAM, 64QAM	1RB/100RB
Frequency Stability	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	6RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	25RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	100RB
Modulation Characteristics	18607 to 19193	18900	1.4MHz	QPSK, 16QAM, 64QAM	6RB
	18625 to 19175	18900	5MHz	QPSK, 16QAM, 64QAM	25RB
	18700 to 19100	18900	20MHz	QPSK, 16QAM, 64QAM	100RB

LTE BAND 25 MODE					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & EIRP	26047 to 26683	26047, 26365, 22683	1.4MHz	QPSK, 16QAM	1RB/6RB
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	1RB/25RB
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	1RB/100RB
Occupied Bandwidth	26047 to 26683	26047, 26365, 22683	1.4MHz	QPSK, 16QAM, 64QAM	6RB
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM, 64QAM	15RB
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM, 64QAM	25RB
	26090 to 26640	26090, 26365, 26640	10MHz	QPSK, 16QAM, 64QAM	50RB
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM, 64QAM	75RB
Conducted Spurious Emissions	26047 to 26683	26047, 26365, 22683	1.4MHz	QPSK, 16QAM	1RB/6RB
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	1RB/25RB
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	1RB/100RB
Band Edge	26047 to 26683	26047, 26683	1.4MHz	QPSK, 16QAM, 64QAM	1RB/6RB
	26065 to 26665	26065, 26665	5MHz	QPSK, 16QAM, 64QAM	1RB/25RB
	26140 to 26590	26140, 26590	20MHz	QPSK, 16QAM, 64QAM	1RB/100RB
Peak To Average Ratio	26047 to 26683	26365	1.4MHz	QPSK, 16QAM, 64QAM	1RB/6RB
	26065 to 26665	26365	5MHz	QPSK, 16QAM, 64QAM	1RB/15RB
	26140 to 26590	26365	20MHz	QPSK, 16QAM, 64QAM	1RB/25RB
Frequency Stability	26047 to 26683	26047, 26365, 22683	1.4MHz	QPSK, 16QAM	6RB
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	25RB
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	100RB
Modulation Characteristics	26047 to 26683	26365	1.4MHz	QPSK, 16QAM, 64QAM	6RB
	26065 to 26665	26365	5MHz	QPSK, 16QAM, 64QAM	25RB
	26140 to 26590	26365	20MHz	QPSK, 16QAM, 64QAM	100RB

3. TEST RESULT

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMIT

Mobile / Portable station are limited to 2 watts e.i.r.p.

3.1.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 5.

EIRP:

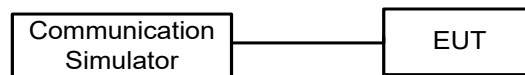
$EIRP = \text{Output Power} + \text{Antenan gain}$

Output Power:

The EUT was set up for the maximum power with GSM, GPRS, EDGE, WCDMA and 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.

3.1.3 TEST SETUP LAYOUT

Output Power Measurement



3.1.4 TEST DEVIATION

No deviation

3.1.5 TEST RESULTS

Please refer to the APPENDIX .

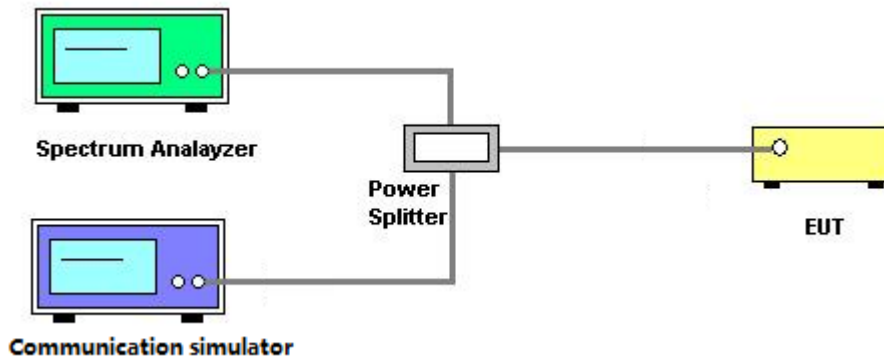
3.2 OCCUPIED BANDWIDTH MEASUREMENT

3.2.1 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 4.

1. 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 and 26dB bandwidth.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. $RBW=(1\% \sim 5\%)*EBW$
 $VBW \geq 3* RBW$
4. Set spectrum analyzer with Peak detector.

3.2.2 TEST SETUP LAYOUT



3.2.3 TEST DEVIATION

No deviation

3.2.4 TEST RESULTS

Please refer to the APPENDIX.

3.3 CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

3.3.1 LIMIT

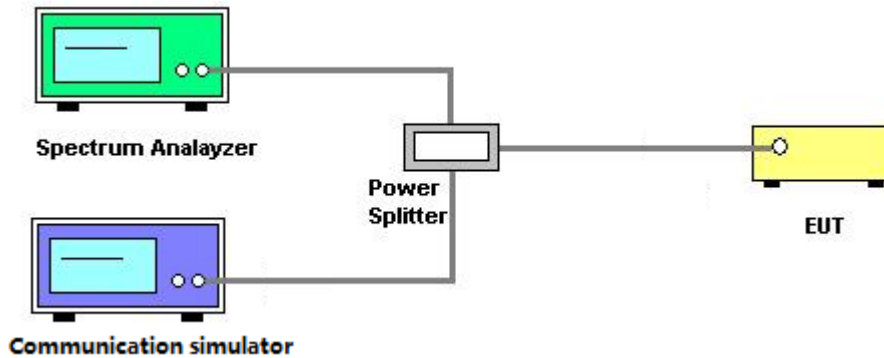
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm.

3.3.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured. Set RBW \geq 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
3. Set spectrum analyzer with Peak detector.
4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.3.3 TEST SETUP LAYOUT



3.3.4 TEST DEVIATION

No deviation

3.3.5 TEST RESULTS

Please refer to the APPENDIX.

3.4 BAND EDGE MEASUREMENT

3.4.1 LIMIT

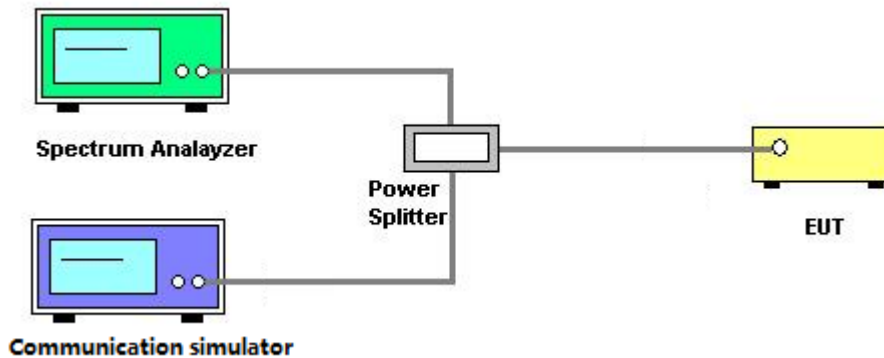
A Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

3.4.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 6.

1. All measurements were done at low and high operational frequency range.
2. Record the max trace plot into the test report.

3.4.3 TEST SETUP LAYOUT



3.4.4 TEST DEVIATION

No deviation

3.4.5 TEST RESULTS

Please refer to the APPENDIX.

3.5 PEAK TO AVERAGE RATIO MEASUREMENT

3.5.1 LIMIT

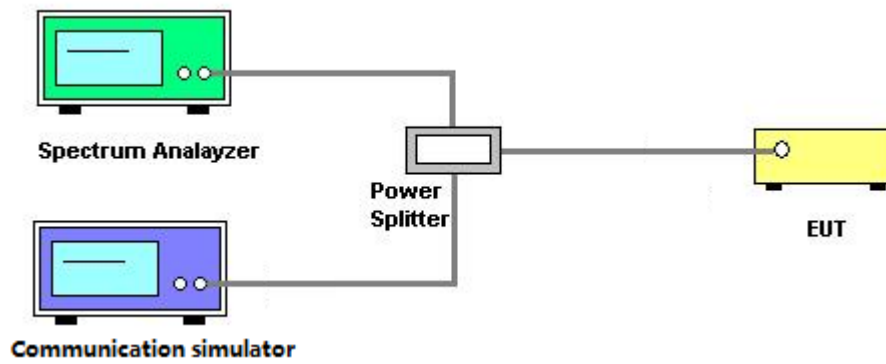
In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 5.7.

1. Set resolution/measurement bandwidth \geq 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%.

3.5.3 TEST SETUP LAYOUT



3.5.4 TEST DEVIATION

No deviation

3.5.5 TEST RESULTS

Please refer to the APPENDIX.

3.6 FREQUENCY STABILITY MEASUREMENT

3.6.1 LIMIT

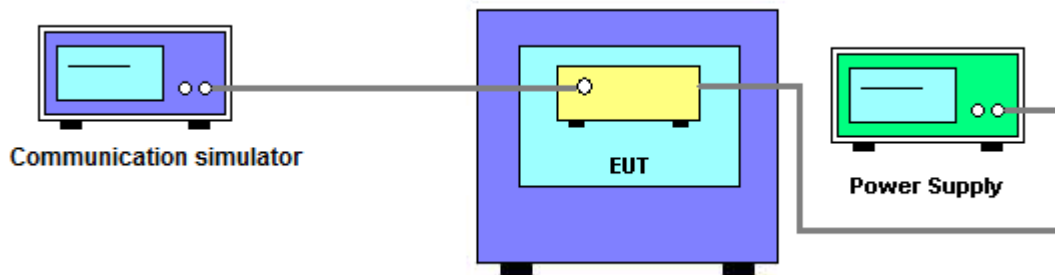
± 1.5 ppm is for base and fixed station. ± 2.5 ppm is for mobile station.

3.6.2 TEST PROCEDURES

The testing follows FCC KDB 971168 v03r01 Section 9.

1. 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.
2. 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.
3. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ 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.
4. The frequency error was recorded frequency error from the communication simulator.

3.6.3 TEST SETUP LAYOUT



3.6.4 TEST DEVIATION

No deviation

3.6.5 TEST RESULTS

Please refer to the APPENDIX.

4. LIST OF MEASUREMENT EQUIPMENTS

Conducted Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Temperature Chamber	WEISS	WKL64/40	56246014990010	May 24, 2022
2	High Speed Power Supply	KEITHLEY	2303	000500E	Dec. 20, 2022
3	Universal Radio Communication Tester	R&S	CMW500	167224	Sep. 27, 2022
4	Universal Radio Communication Tester	R&S	CMW500	169872	May 13, 2022
5	Universal Radio Communication Tester	R&S	CMW500	169873	May 13, 2022
6	Signal Analyzer	R&S	FSW26	102253	May 13, 2022
7	Signal Analyzer	R&S	FSW43	101998	May 13, 2022
8	Vector Signal Generator	R&S	SMW200A	109896	Sep. 27, 2022
9	Vector Signal Generator	R&S	SMW200A	109897	Sep. 27, 2022

Remark: "N/A" denotes no model name, serial no. or calibration specified.
 All calibration period of equipment list is one year.

End of Test Report