

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 22 Subpart H
47 CFR FCC Part 2
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.

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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-1-2203G019	R00	Original Report.	Apr. 20, 2022	Valid

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part 22 Subpart H & Part 2			
Standard(s) Section	Test Item	Judgment	Remark
2.1046 22.913(a)(5)	Output Power & Equivalent Radiated Power	PASS	-----
2.1047	Modulation Characteristics	PASS	-----
2.1049	Occupied Bandwidth	PASS	-----
2.1051 22.917(a)	Conducted Spurious Emissions	PASS	-----
2.1051 22.917(a)	Band Edge Measurements	PASS	-----
-	Peak To Average Ratio	PASS	Record Only
2.1055 22.355	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 & ERP	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 850/GPRS 850/ EDGE 850	GMSK, 8PSK	
	WCDMA/HSDPA/HSUPA	UL: QPSK	
	LTE	UL: QPSK, 16QAM, 64QAM	
Max. ERP	GSM 850	24.78	dBm
	WCDMA Band V	17.32	dBm
	LTE Band 5	16.74	dBm
	LTE Band 26B	16.20	dBm

Note:

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

2. Channel List:

GSM 850(UL: 824-849MHz,DL: 869-894MHz)				
Test Frequency ID	UARFCN	Frequency of Uplink (MHz)	UARFCN	Frequency of Downlink (MHz)
Low Range	128	824.2	128	869.2
Mid Range	190	836.6	190	881.6
High Range	251	848.8	251	893.8

WCDMA Band V(UL: 824-849MHz,DL: 869-894MHz)				
Test Frequency ID	UARFCN	Frequency of Uplink (MHz)	UARFCN	Frequency of Downlink (MHz)
Low Range	4132	826.4	4357	871.4
Mid Range	4182	836.4	4407	881.4
High Range	4233	846.6	4458	891.6

LTE Band 5(UL: 824-849MHz,DL: 869-894MHz)					
Test Frequency ID	Bandwidth (MHz)	N _{UL}	Frequency of Uplink (MHz)	N _{DL}	Frequency of Downlink (MHz)
Low Range	1.4	20407	824.7	2407	869.7
	3	20415	825.5	2415	870.5
	5	20425	826.5	2425	871.5
	10	20450	829	2450	874
Mid Range	1.4/3/5/10	20525	836.5	2525	881.5
High Range	1.4	20643	848.3	2643	893.3
	3	20635	847.5	2635	892.5
	5	20625	846.5	2625	891.5
	10	20600	844	2600	889




LTE Band 26B(UL: 824-849MHz,DL: 869-894MHz)					
Test Frequency ID	Bandwidth (MHz)	N _{UL}	Frequency of Uplink (MHz)	N _{DL}	Frequency of Downlink (MHz)
Low Range	1.4	26797	824.7	8797	869.7
	3	26805	825.5	8805	870.5
	5	26815	826.5	8815	871.5
	10	26840	829	8840	874
	15	26865	831.5	8865	876.5
Mid Range	1.4/3/5/10/15	26915	836.5	8915	881.5
High Range	1.4	27033	848.3	9033	893.3
	3	27025	847.5	9025	892.5
	5	27015	846.5	9015	891.5
	10	26990	844	8990	889
	15	26965	841.5	8965	886.5

3. Table for Filed Antenna:

Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
N/A	N/A	Integral	N/A	-6.0	GSM 850
				-6.0	WCDMA Band V
				-6.0	LTE Band 5
				-6.0	LTE Band 26B

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.

GSM MODE			
Test Item	Available Channel	Tested Channel	Mode
Output Power & ERP	128 to 251	128, 190, 251	GSM, GPRS, EDGE
Peak to Average Ratio	128 to 251	128, 190, 251	GSM, GPRS, EDGE
Modulation Characteristics	128 to 251	190	GSM, GPRS, EDGE
Occupied Bandwidth	128 to 251	128, 190, 251	GSM, GPRS, EDGE
Band Edge	128 to 251	128, 251	GSM, GPRS, EDGE
Conducted Spurious Emissions	128 to 251	128, 190, 251	GSM, GPRS, EDGE
Frequency Stability	128 to 251	128, 190, 251	GSM, GPRS, EDGE

WCDMA BAND V MODE			
Test Item	Available Channel	Tested Channel	Mode
Output Power & ERP	4132 to 4233	4132, 4182, 4233	WCDMA
Peak to Average Ratio	4132 to 4233	4132, 4182, 4233	WCDMA
Modulation Characteristics	4132 to 4233	4182	WCDMA
Occupied Bandwidth	4132 to 4233	4132, 4182, 4233	WCDMA
Band Edge	4132 to 4233	4132, 4233	WCDMA
Conducted Spurious Emissions	4132 to 4233	4132, 4182, 4233	WCDMA
Frequency Stability	4132 to 4233	4132, 4182, 4233	WCDMA

LTE BAND 5 MODE					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & ERP	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM	1RB/3RB/6RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	1RB/12RB/25RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	1RB/25RB/50RB
Peak To Average Ratio	20407 to 20643	20525	1.4MHz	QPSK, 16QAM, 64QAM	1RB/6RB
	20425 to 20625	20525	5MHz	QPSK, 16QAM, 64QAM	1RB//25RB
	20450 to 20600	20525	10MHz	QPSK, 16QAM, 64QAM	1RB/50RB
Modulation Characteristics	20407 to 20643	20525	1.4MHz	QPSK, 16QAM, 64QAM	6RB
	20425 to 20625	20525	5MHz	QPSK, 16QAM, 64QAM	25RB
	20450 to 20600	20525	10MHz	QPSK, 16QAM, 64QAM	50RB
Occupied Bandwidth	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM, 64QAM	6RB
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM, 64QAM	15RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM, 64QAM	25RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM, 64QAM	50RB
Band Edge	20407 to 20643	20407, 20643	1.4MHz	QPSK, 16QAM, 64QAM	1RB/6RB
	20425 to 20625	20425, 20625	5MHz	QPSK, 16QAM, 64QAM	1RB//25RB
	20450 to 20600	20450, 20600	10MHz	QPSK, 16QAM, 64QAM	1RB/50RB
Conducted Spurious Emissions	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM, 64QAM	1RB/6RB
	20425 to 20625	20407, 20525, 20643	5MHz	QPSK, 16QAM, 64QAM	1RB//25RB
	20450 to 20600	20407, 20525, 20643	10MHz	QPSK, 16QAM, 64QAM	1RB/50RB
Frequency Stability	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM	6RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	25RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	50RB

LTE BAND 26B MODE					
Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
Output Power & ERP	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM	1RB/6RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM	1RB/25RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM	1RB/75RB
Occupied Bandwidth	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM, 64QAM	6RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM, 64QAM	15RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM, 64QAM	25RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM, 64QAM	50RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM, 64QAM	75RB
Conducted Spurious Emissions	26815 to 27015	26797, 26915, 27033	1.4MHz	QPSK, 16QAM	1RB/6RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM	1RB/25RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM	1RB/75RB
Band Edge	26797 to 27033	26797, 27033	1.4MHz	QPSK, 16QAM, 64QAM	1RB/6RB
	26815 to 27015	26815, 27015	5MHz	QPSK, 16QAM, 64QAM	1RB/25RB
	26865 to 26965	26865, 26965	15MHz	QPSK, 16QAM, 64QAM	1RB/75RB
Peak To Average Ratio	26797 to 27033	226915	1.4MHz	QPSK, 16QAM, 64QAM	1RB/6RB
	26815 to 27015	226915	5MHz	QPSK, 16QAM, 64QAM	1RB/25RB
	26865 to 26965	226915	15MHz	QPSK, 16QAM, 64QAM	1RB/75RB
Frequency Stability	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM	6RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM	25RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM	75RB
Modulation Characteristics	26797 to 27033	226915	1.4MHz	QPSK, 16QAM, 64QAM	6RB
	26815 to 27015	226915	5MHz	QPSK, 16QAM, 64QAM	25RB
	26865 to 26965	226915	15MHz	QPSK, 16QAM, 64QAM	75RB

3. TEST RESULT

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMIT

Mobile / Portable station are limited to 7 watts e.r.p.

3.1.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 5.

EIRP / ERP:

EIRP = Output Power + Antenan gain

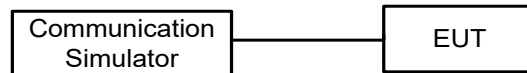
ERP = EIPR - 2.15dBi

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.

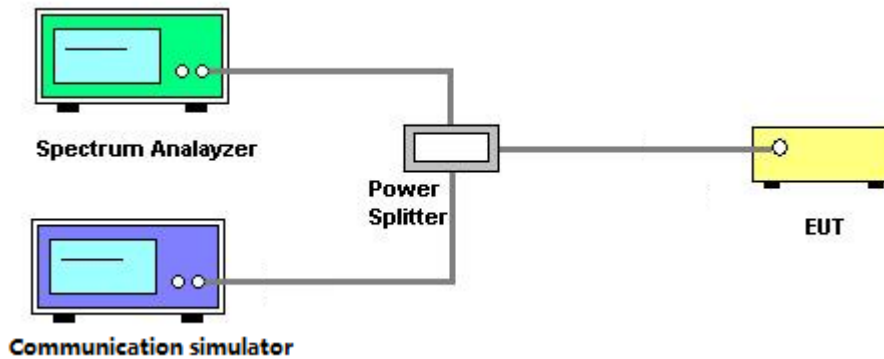
3.2 OCCUPIED BANDWIDTH MEASUREMENT

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

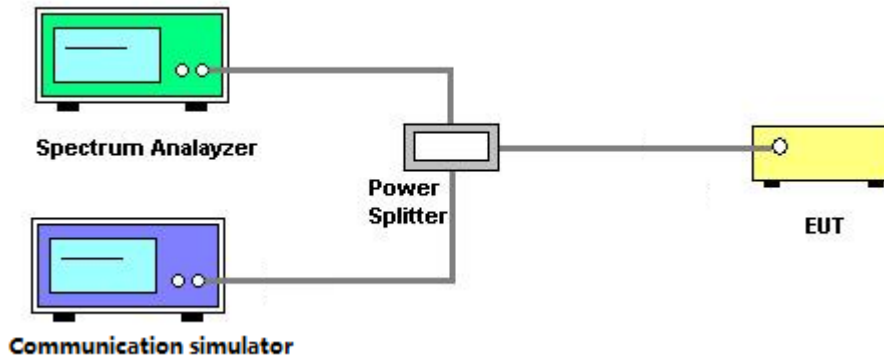
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm.

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

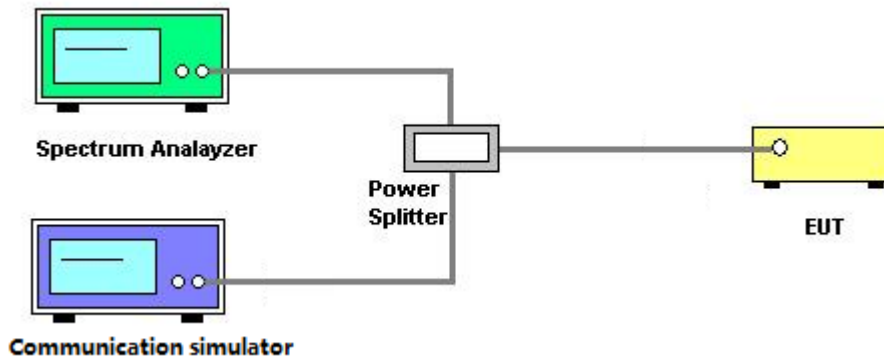
A Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the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

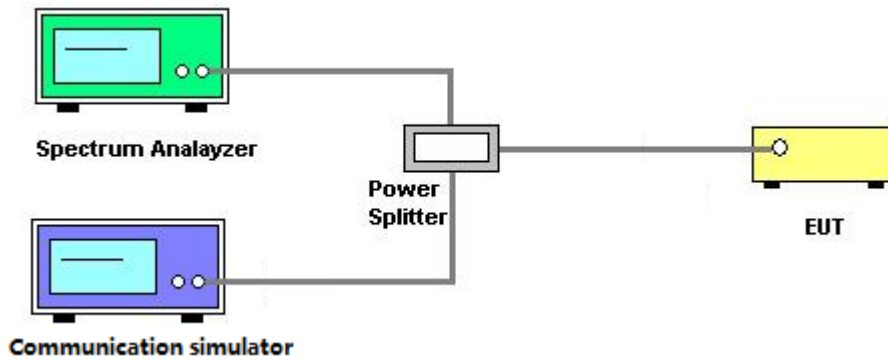
In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

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

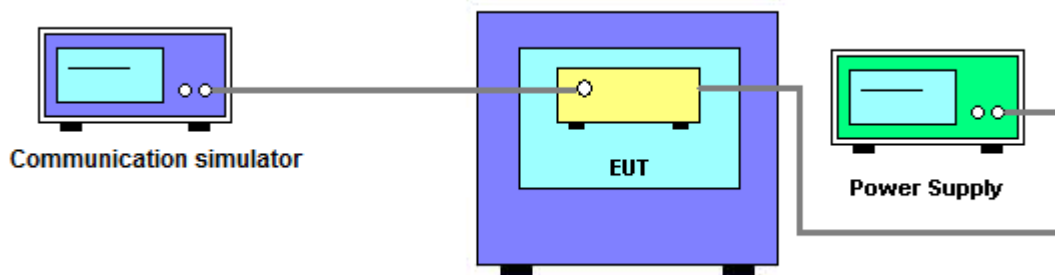
± 1.5 ppm is for base and fixed station. ± 2.5 ppm is for mobile station.

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