

# RF TEST REPORT

<b>Applicant</b>	Honor Device Co., Ltd.
<b>FCC ID</b>	2AYGCLGN-LX3
<b>Product</b>	Smart Phone
<b>Brand</b>	HONOR
<b>Model</b>	LGN-LX3
<b>Report No.</b>	EFTA25060265-IE-01-R11
<b>Issue Date</b>	August 13, 2025

Eurofins TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC CFR47 Part 2 / FCC CFR 47 Part 22H / FCC CFR 47 Part 24E / FCC CFR47 Part 27C / FCC CFR 47 Part 90S**. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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## Summary of Measurement Results

Test Case	Clause in FCC rules	Limits	Verdict
<b>GSM 850; WCDMA Band 5; LTE Band 5/26 (824-849MHz)</b>			
RF Power Output and Effective Radiated Power	2.1046 22.913(a)(5)	$\leq 7$ W (38.45 dBm)	PASS
Occupied Bandwidth	2.1049	No specific requirements	PASS
Band Edge Compliance	2.1051 22.917(a)	$\leq -13$ dBm	PASS
Peak-to-Average Power Ratio	22.913(d) KDB 971168 D01(5.7)	$\leq 13$ dB	PASS
Frequency Stability	2.1055 22.355(d)(1)	$\leq 2.5$ ppm	PASS
Spurious Emissions at Antenna Terminals	2.1051 22.917(a)	$\leq -13$ dBm	PASS
Radiated Spurious Emission	2.1053 22.917 (a)	$\leq -13$ dBm	PASS
<b>GSM 1900; WCDMA Band 2; LTE Band 2</b>			
RF Power Output and Effective Isotropic Radiated Power	2.1046 24.232(c)	$\leq 2$ W (33 dBm)	PASS
Occupied Bandwidth	2.1049	No specific requirements	PASS
Band Edge Compliance	2.1051 24.238(a)	$\leq -13$ dBm	PASS
Peak-to-Average Power Ratio	24.232 (d) KDB 971168 D01(5.7)	$\leq 13$ dB	PASS
Frequency Stability	2.1055 24.235	The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.	PASS
Spurious Emissions at Antenna Terminals	2.1051 24.238(a)	$\leq -13$ dBm	PASS
Radiated Spurious Emission	2.1053 24.238(a)	$\leq -13$ dBm	PASS
<b>WCDMA Band 4; LTE Band 4/66</b>			
RF Power Output and Effective Isotropic Radiated Power	2.1046 27.50(d)(4)	$\leq 1$ W (30 dBm)	PASS
Occupied Bandwidth	2.1049	No specific requirements	PASS
Band Edge Compliance	2.1051 27.53(h)	$\leq -13$ dBm	PASS

Test Case	Clause in FCC rules	Limits	Verdict
Peak-to-Average Power Ratio	27.50(d)(5) KDB971168 D01(5.7)	$\leq 13$ dB	PASS
Frequency Stability	2.1055 27.54	Shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.	PASS
Spurious Emissions at Antenna Terminals	2.1051 27.53(h)	$\leq -13$ dBm	PASS
Radiated Spurious Emission	2.1053 27.53(h)	$\leq -13$ dBm	PASS
<b>LTE Band 7/38</b>			
RF Power Output and Effective Isotropic Radiated Power	2.1046 27.50(h)(2)	$\leq 2$ W (33 dBm)	PASS
Occupied Bandwidth	2.1049	No specific requirements	PASS
Band Edge Compliance	2.1051 27.53(m)(4)	The attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.	PASS
Peak-to-Average Power Ratio	27.50(d)(5) KDB971168 D01(5.7)	$\leq 13$ dB	PASS
Frequency Stability	2.1055 27.54	Shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.	PASS

Test Case	Clause in FCC rules	Limits	Verdict				
Spurious Emissions at Antenna Terminals	2.1051 27.53(m)	≤ -25 dBm	PASS				
Radiated Spurious Emission	2.1053 27.53(m)	≤ -25 dBm	PASS				
LTE Band 13							
RF Power Output and Effective Radiated Power	2.1046 27.50(b)(10)	≤ 3 W (34.77 dBm)	PASS				
Occupied Bandwidth	2.1049	No specific requirements	PASS				
Band Edge Compliance	2.1051 27.53(c)(2)	The power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;	PASS				
Peak-to-Average Power Ratio	KDB971168 D01(5.7)	≤ 13 dB	PASS				
Frequency Stability	2.1055 27.54	Shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.	PASS				
Spurious Emissions at Antenna Terminals	2.1051 27.53(c) 27.53(f)	<table><tr><td>Limit out of the band 1559-1610 MHz</td><td>≤ -13 dBm</td></tr><tr><td>Limit in the band 1559-1610 MHz</td><td>≤ -40 dBm</td></tr></table>	Limit out of the band 1559-1610 MHz	≤ -13 dBm	Limit in the band 1559-1610 MHz	≤ -40 dBm	PASS
Limit out of the band 1559-1610 MHz	≤ -13 dBm						
Limit in the band 1559-1610 MHz	≤ -40 dBm						
Radiated Spurious Emission	2.1053 27.53(c) 27.53(f)	<table><tr><td>Limit out of the band 1559-1610 MHz</td><td>≤ -13 dBm</td></tr><tr><td>Limit in the band 1559-1610 MHz</td><td>≤ -40 dBm</td></tr></table>	Limit out of the band 1559-1610 MHz	≤ -13 dBm	Limit in the band 1559-1610 MHz	≤ -40 dBm	PASS
Limit out of the band 1559-1610 MHz	≤ -13 dBm						
Limit in the band 1559-1610 MHz	≤ -40 dBm						
LTE Band 26 (814-824MHz)							
RF Power Output and Effective Radiated Power	2.1046 90.635(b)	≤ 100 W (50 dBm)	PASS				
Occupied Bandwidth	2.1049	No specific requirements	PASS				
Emission Masks	2.1051 90.691(a)(1)	For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log <sub>10</sub> (f/6.1) decibels or 50 + 10 Log <sub>10</sub> (P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.	PASS				
Peak-to-Average Power Ratio	KDB 971168 D01(5.7)	≤ 13 dB	PASS				

RF Test Report

Report No.: EUT-1420000200-12-01-R01

Test Case	Clause in FCC rules	Limits		Verdict	
Frequency Stability	2.1055 90.213	Fixed and base stations  1.5	Mobile stations	PASS	
			Over 2 watts output power		2 watts or less output power
			2.5		2.5
Spurious Emissions at Antenna Terminals	2.1051 90.691	≤ -13 dBm		PASS	
Radiated Spurious Emission	2.1053 90.691	≤ -13 dBm		PASS	
Date of Testing: July 9, 2025 ~ July 24, 2025 Date of Sample Received: June 16, 2025 Note: PASS: The EUT complies with the essential requirements in the standard. FAIL: The EUT does not comply with the essential requirements in the standard. All indications of Pass/Fail in this report are opinions expressed by Eurofins TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.					

# 1 Test Laboratory

## 1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **Eurofins TA Technology (Shanghai) Co., Ltd.** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

## 1.2. Test facility

### A2LA (Certificate Number: 3857.01)

Eurofins TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform measurement.

## 1.3 Testing Location

Company: Eurofins TA Technology (Shanghai) Co., Ltd.  
Address: Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China  
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E-mail: Kain.Xu@cpt.eurofinscn.com

## 2 General Description of Equipment under Test

### 2.1 Applicant and Manufacturer Information

Applicant	Honor Device Co., Ltd.
Applicant address	Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China
Manufacturer	Honor Device Co., Ltd.
Manufacturer address	Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China

### 2.2 General information

EUT Description					
Model	LGN-LX3				
SN	Conducted	ANYQJV5624H00214			
	Radiated	ANYQJV5624G00017			
Hardware Version	HL1LGNM				
Software Version	9.0.0.88(C900E15R1P1)GPU Turbo				
Power Supply	Battery / AC;DC adapter				
Antenna Type	Integrated Antenna				
Rated Power Supply Voltage	3.92VDC				
Operating Voltage	Minimum: 3.50VDC		Maximum: 4.35VDC		
Operating Temperature	Lowest: 0°C		Highest: +35°C		
Testing Temperature	Lowest: -30°C		Highest: +50°C		
Frequency Range(s)	Mode	Tx (MHz)	Rx (MHz)	Gain Ant 1 (dBi)	Gain Ant 2 (dBi)
	GSM850	824 ~ 849	869 ~ 894	0.10	--
	GSM1900	1850 ~ 1910	1930 ~ 1990	0.11	0.68
	WCDMA Band II	1850 ~ 1910	1930 ~ 1990	0.11	0.68
	WCDMA Band IV	1710 ~ 1755	2110 ~ 2155	0.14	0.54
	WCDMA Band V	824 ~ 849	869 ~ 894	0.10	--
	LTE Band 2	1850 ~ 1910	1930 ~ 1990	0.11	0.68
	LTE Band 4	1710 ~ 1755	2110 ~ 2155	0.14	0.54
	LTE Band 5	824 ~ 849	869 ~ 894	0.10	--
	LTE Band 7	2500 ~ 2570	2620 ~ 2690	1.61	-0.1
	LTE Band 13	777 ~ 787	746 ~ 756	-4.02	--
	LTE Band 26 (824 ~ 849)	824 ~ 849	869 ~ 894	0.10	--
	LTE Band 26 (814 ~ 824)	814 ~ 824	859 ~ 869	0.10	--



		LTE Band 38	2570 ~ 2620	2570 ~ 2620	1.61	-0.41
		LTE Band 66	1710 ~ 1780	2110 ~ 2180	0.14	0.91
Test Modulation		(GSM/GPRS) GMSK, (EGPRS) 8PSK; (WCDMA) QPSK, 16QAM; (LTE) QPSK, 16QAM, 64QAM;				
GPRS Multislot Class		12				
EGPRS Multislot Class		12				
HSDPA UE Category		10				
HSUPA UE Category		6				
DC-HSDPA UE Category		24				
LTE Category		4				
Power Class		GSM 850: 4 GSM 1900: 1 WCDMA / LTE: 3				
Maximum E.I.R.P./ E.R.P.		GSM850	30.41 dBm			
		GSM1900	30.43 dBm			
		WCDMA Band II	24.90 dBm			
		WCDMA Band IV	24.89 dBm			
		WCDMA Band V	22.30 dBm			
		LTE Band 2	25.07 dBm			
		LTE Band 4	24.66 dBm			
		LTE Band 5	22.42 dBm			
		LTE Band 7	25.67 dBm			
		LTE Band 13	18.45 dBm			
		LTE Band 26 (824 ~ 849)	21.95 dBm			
		LTE Band 26 (814 ~ 824)	21.72 dBm			
		LTE Band 38	25.67 dBm			
		LTE Band 66	25.03 dBm			
EUT Accessory						
Accessory	Model	Manufacture				No.
Adapter	HN-110320U00	Honor Device Co., Ltd. (Huntkey)				1
	HN-110320B00					2
	HN-110320E00					3
	HN-110320U01	Honor Device Co., Ltd. (Aohai)				4
	HN-110320B01					5
	HN-110320E01					6
Battery	HB5168A4EIW-A	Honor Device Co., Ltd. (SCUD)				1
		Honor Device Co., Ltd. (COSMX)				2
USB Cable	AU2-CRO013HF	04072295(LJ)				1

	RY0002	04072295(NB)	2
	L125UC007-CS-H	04072295(LX)	3
	2120-00001-0	04072295(MG)	4
<p>Note:</p> <p>1. The EUT is sent from the applicant to Eurofins TA and the information of the EUT is declared by the applicant.</p>			

### 3 Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**Test standards:**

**FCC CFR 47 Part 2 (2024)**

**FCC CFR 47 Part 22H (2024)**

**FCC CFR 47 Part 24E (2024)**

**FCC CFR 47 Part 27C (2024)**

**FCC CFR 47 Part 90S (2024)**

**Reference standard:**

**ANSI C63.26-2015**

**KDB 971168 D01 Power Meas License Digital Systems v03r01**

## 4 Test Configuration

There is more than one SIM card slot, each one should be applied throughout the compliance test respectively, and however, only the worst case (SIM 1) will be recorded in this report

All mode and data rates and positions and RB size and modulations were investigated.

Subsequently, only the worst case emissions are reported.

The following testing in GSM/WCDMA/LTE is set based on the maximum RF Output Power.

The following testing in different Bandwidth is set to detail in the following table:

Test modes are chosen to be reported as the worst case configuration below for WCDMA Band:

Test items	Modes/Modulation	
	GSM 850 / GSM 1900	WCDMA Band 2/4/5
RF Power Output and Effective (Isotropic) Radiated power	GSM GPRS EGPRS	RMC HSDPA/HSUPA DC-HSDPA/HSPA+
Occupied Bandwidth	GSM GPRS(1Tx slot) EGPRS(1Tx slot)	RMC
Band Edge Compliance	GSM GPRS(1Tx slot) EGPRS(1Tx slot)	RMC
Peak-to-Average Power Ratio	GSM GPRS(1Tx slot) EGPRS(1Tx slot)	RMC
Frequency Stability	GSM	RMC
Spurious Emissions at Antenna Terminals	GSM	RMC
Radiated Spurious Emission	GSM	RMC

Test modes are chosen to be reported as the worst case configuration below for LTE Band:

Test items	Modes	Bandwidth (MHz)						Modulation		RB			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM/ 64QAM	1	50%	100%	L	M	H
RF Power Output and Effective Isotropic Radiated Power	LTE 2	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 4	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 5	O	O	O	O	-	-	O	O	O	O	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 13	-	-	O	O	-	-	O	O	O	O	O	O	O	O
	LTE 26 (824 ~ 849)	O	O	O	O	O	-	O	O	O	O	O	O	O	O
	LTE 26 (814 ~ 824)	O	O	O	O	-	-	O	O	O	O	O	O	O	O
	LTE 38	-	-	O	O	O	O	O	O	O	O	O	O	O	O
	LTE 66	O	O	O	O	O	O	O	O	O	O	O	O	O	O
Occupied Bandwidth	LTE 2	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 4	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 5	O	O	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 13	-	-	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 26 (824 ~ 849)	O	O	O	O	O	-	O	O	-	-	O	O	O	O
	LTE 26 (814 ~ 824)	O	O	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 38	-	-	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 66	O	O	O	O	O	O	O	O	-	-	O	O	O	O
Band Edge Compliance	LTE 2	O	O	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 4	O	O	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 5	O	O	O	O	-	-	O	O	O	-	O	O	-	O
	LTE 7	-	-	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 13	-	-	O	O	-	-	O	O	O	-	O	O	-	O
	LTE 26 (824 ~ 849)	O	O	O	O	O	-	O	O	O	-	O	O	-	O
	LTE 26 (814 ~ 824)	O	O	O	O	-	-	O	O	O	-	O	O	-	O
	LTE 38	-	-	O	O	O	O	O	O	O	-	O	O	-	O
	LTE 66	O	O	O	O	O	O	O	O	O	-	O	O	-	O
Peak-to-Average Power Ratio	LTE 2	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 4	O	O	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 5	O	O	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 7	-	-	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 13	-	-	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 26 (824 ~ 849)	O	O	O	O	O	-	O	O	-	-	O	O	O	O
	LTE 26 (814 ~ 824)	O	O	O	O	-	-	O	O	-	-	O	O	O	O
	LTE 38	-	-	O	O	O	O	O	O	-	-	O	O	O	O
	LTE 66	O	O	O	O	O	O	O	O	-	-	O	O	O	O

Frequency Stability	LTE 2	O	O	O	O	O	O	O	-	-	-	O	O	-	O
	LTE 4	O	O	O	O	O	O	O	-	-	-	O	O	-	O
	LTE 5	O	O	O	O	-	-	O	-	-	-	O	-	O	-
	LTE 7	-	-	O	O	O	O	O	-	-	-	O	O	-	O
	LTE 13	-	-	O	O	-	-	O	-	-	-	O	O	-	O
	LTE 26 (824 ~ 849)	O	O	O	O	O	-	O	-	-	-	O	-	O	-
	LTE 26 (814 ~ 824)	O	O	O	O	-	-	O	-	-	-	O	-	O	-
	LTE 38	-	-	O	O	O	O	O	-	-	-	O	O	-	O
	LTE 66	O	O	O	O	O	O	O	-	-	-	O	O	-	O
Spurious Emissions at Antenna Terminals	LTE 2	O	O	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 4	O	O	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 5	O	O	O	O	-	-	O	-	O	-	-	O	O	O
	LTE 7	-	-	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 13	-	-	O	O	-	-	O	-	O	-	-	O	O	O
	LTE 26 (824 ~ 849)	O	O	O	O	O	-	O	-	O	-	-	O	O	O
	LTE 26 (814 ~ 824)	O	O	O	O	-	-	O	-	O	-	-	O	O	O
	LTE 38	-	-	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 41	-	-	O	O	O	O	O	-	O	-	-	O	O	O
Radiated Spurious Emission	LTE 66	O	O	O	O	O	O	O	-	O	-	-	O	O	O
	LTE 2	-	-	-	-	-	O	O	-	O	-	-	-	O	-
	LTE 4	-	-	-	-	-	O	O	-	O	-	-	-	O	-
	LTE 5	-	-	-	O	-	-	O	-	O	-	-	-	O	-
	LTE 7	-	-	-	-	-	O	O	-	O	-	-	-	O	-
	LTE 13	-	-	-	O	-	-	O	-	O	-	-	-	O	-
	LTE 26 (824 ~ 849)	-	-	-	O	-	-	O	-	O	-	-	-	O	-
	LTE 26 (814 ~ 824)	O	-	-	-	-	-	O	-	O	-	-	-	O	-
	LTE 38	-	-	-	-	O	-	O	-	O	-	-	-	O	-
	LTE 66	-	-	-	O	-	-	O	-	O	-	-	-	O	-

**Note**

1. The mark "O" means that this configuration is chosen for testing.
2. The mark "-" means that this configuration is not testing.

## 5 Test Case

### 5.1 RF Power Output and Effective Isotropic Radiated Power

#### Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

#### Methods of Measurement

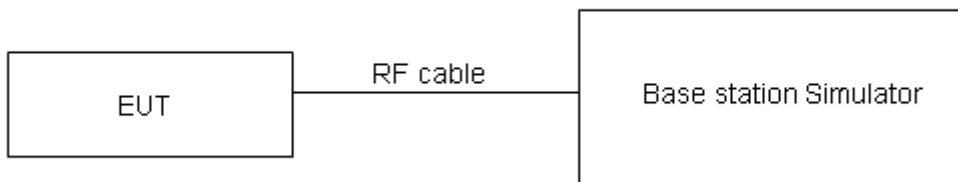
During the process of the testing, The EUT was connected to the Base Station Simulator with a known loss. The EUT is controlled by the Base Station Simulator test set to ensure max power transmission with proper modulation.

ERP can then be calculated as follows:

$EIRP \text{ (dBm)} = \text{Output Power (dBm)} + \text{Antenna Gain (dBi)}$

$EIRP \text{ (dBm)} = ERP \text{ (dBm)} + 2.15 \text{ (dB.)}$

#### Test Setup



#### Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 2$ ,  $U=0.4 \text{ dB}$  for RF power output,  $k = 2$ ,  $U= 1.19 \text{ dB}$  for ERP/EIRP.

#### Test Results

The detailed test data see EFTA25060265-IE-01-R11-A

## 5.2 Occupied Bandwidth

### Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

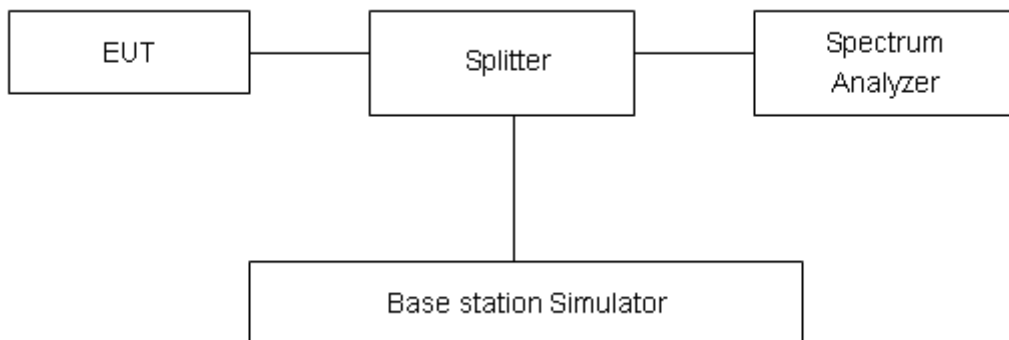
### Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The occupied bandwidth is measured using spectrum analyzer.

RBW is set to  $\geq 1\%EBW$ , VBW is set to 3x RBW.

99% power and -26dBc occupied bandwidths are recorded. Spectrum analyzer plots are included on the following pages.

### Test Setup



### Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 2$ ,  $U=624\text{Hz}$ .

### Test Results

The detailed test data see EFTA25060265-IE-01-R11-B



### 5.3 Band Edge Compliance

#### Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

#### Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The band edge of the lowest and highest channels were measured.

The testing follows KDB 971168 D01 v03r01 Section 6.0

The EUT was connected to spectrum analyzer and system simulator via a power divider.

The band edges of low and high channels for the highest RF powers were measured.

For LTE Band 7/38 set RBW  $\geq 1\%$  EBW in the 1MHz band immediately outside and adjacent to the band edge. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.

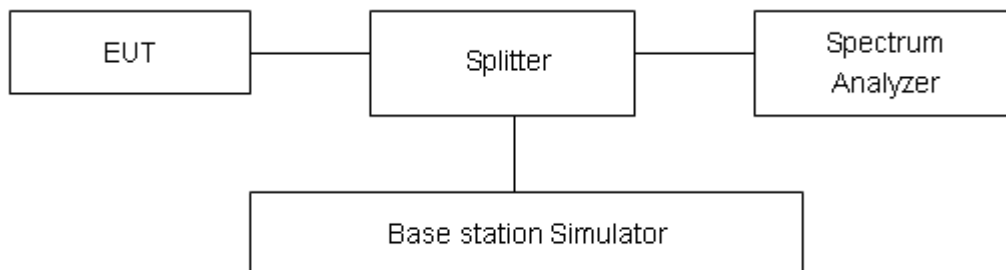
RBW is set to  $\geq 1\%$ EBW, VBW is set to 3x RBW on spectrum analyzer.

Set spectrum analyzer with RMS detector.

The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

Checked that all the results comply with the emission limit line.

#### Test Setup



#### Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 1.96$ ,  $U=0.684\text{dB}$ .

#### Test Results

The detailed test data see EFTA25060265-IE-01-R11-C

## 5.4 Peak-to-Average Power Ratio (PAPR)

### Ambient condition

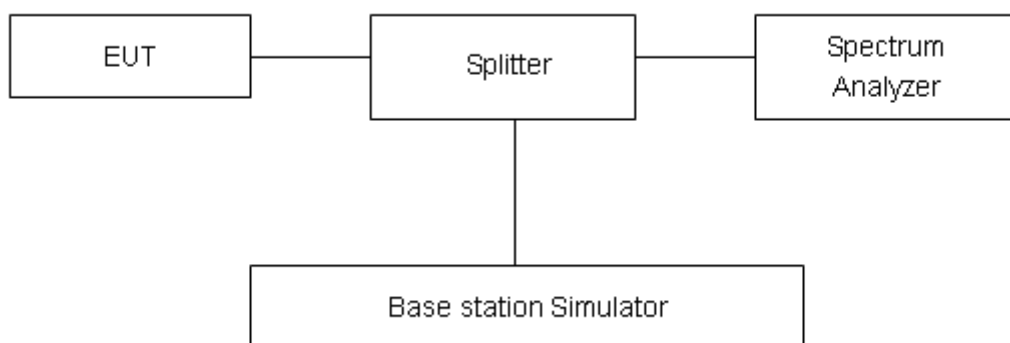
Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

### Methods of Measurement

Measure the total peak power and record as PPk. And measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

$$\text{PAPR (dB)} = \text{PPk (dBm)} - \text{PAvg (dBm)}.$$

### Test Setup



### Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 2$ ,  $U = 0.4$  dB.

### Test Results

The detailed test data see EFTA25060265-IE-01-R11-D

## 5.5 Frequency Stability

### Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

### Method of Measurement

#### Frequency Stability (Temperature Variation)

The temperature inside the climate chamber is varied from -30°C to +50°C in 10°C step size.

(1) With all power removed, the temperature was decreased to -10°C and permitted to stabilize for three hours.

(2) Measure the carrier frequency with the test equipment in a “call mode”. These measurements should be made within 1 minute of powering up the mobile station, to prevent significant self warming.

(3) Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements.

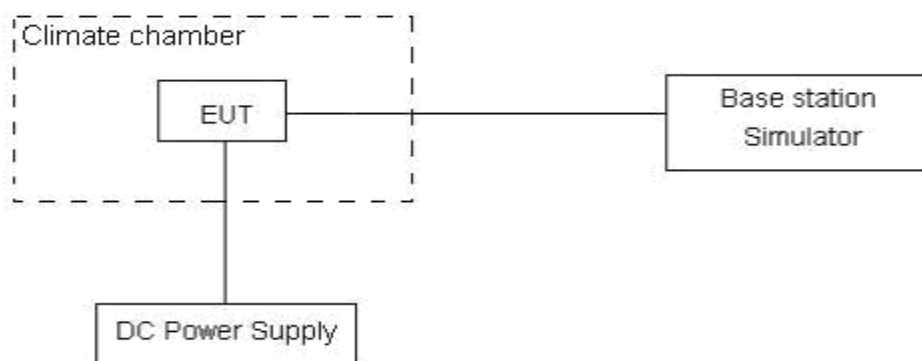
#### Frequency Stability (Voltage Variation)

The frequency stability shall be measured with variation of primary supply voltage as follows:

**Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

This transceiver is specified to operate with an input voltage of between 3.50V and 4.53V, with a nominal voltage of 3.92V.

### Test setup



### Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor  $k = 3$ ,  $U = 0.01$  ppm.

### Test Results

The detailed test data see EFTA25060265-IE-01-R11-E

## 5.6 Spurious Emissions at Antenna Terminals

### Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

### Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The measurement is carried out using a spectrum analyzer. The spectrum analyzer scans from 9kHz to the 10th harmonic of the carrier. The peak detector is used.

RBW is set to 1 kHz (0.009MHz~ 0.15 MHz),

RBW is set to 10 kHz (0.15 MHz~ 30 MHz)

RBW is set to 100 kHz (30MHz~1000 MHz)

RBW is set to 1000 kHz (above 1000MHz)

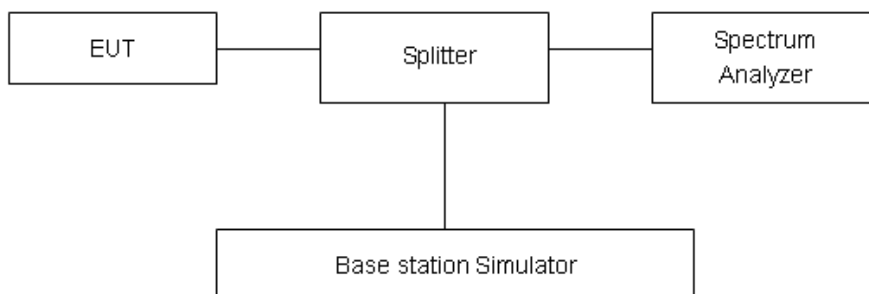
For Band 2/7/38/66, the RBW is set to 100KHz below 1G, and the factor is 10dB for 1MHz.

Sweep is set to AUTO.

Of those disturbances below (limit – 20 dB), the mark is not required for the EUT.

The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

### Test setup



### Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor  $k = 1.96$ .

Frequency	Uncertainty
9kHz-1GHz	0.684 dB
above 1GHz	1.407 dB

### Test Results

The detailed test data see EFTA25060265-IE-01-R11-E

## 5.7 Radiated Spurious Emission

### Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

### Method of Measurement

1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.8 and ANSI C63.26-2015.
2. Below 1GHz: The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H). Above 1GHz: (Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.) The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).
3. A loop antenna, A log-periodic antenna or horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
4. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=100kHz, VBW=300kHz for 30MHz to 1GHz and RBW=1MHz, VBW=3MHz for above 1GHz, and the maximum value of the receiver should be recorded as (Pr).
5. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
6. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
7. The measurement results are obtained as described below:  

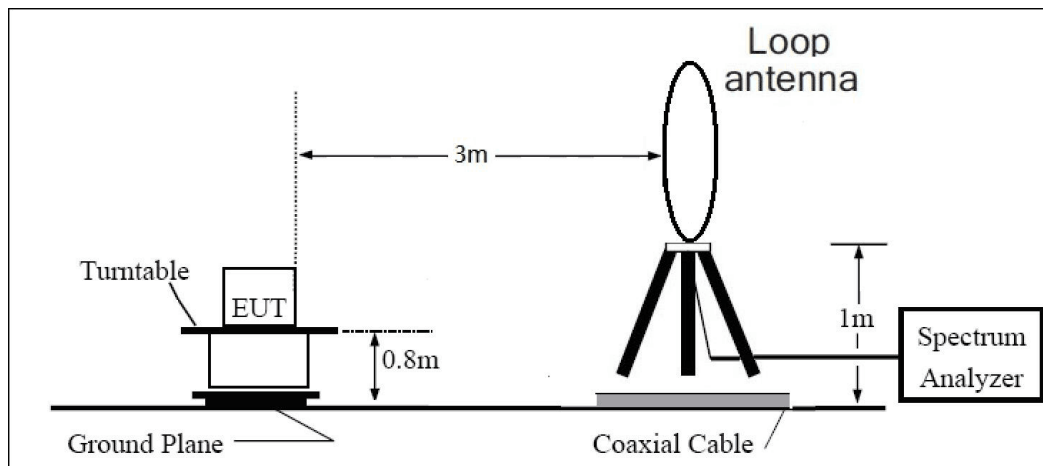
$$\text{Power(EIRP)} = \text{PMea} - \text{PAg} - \text{Pcl} + \text{Ga}$$
The measurement results are amend as described below:  

$$\text{Power(EIRP)} = \text{PMea} - \text{Pcl} + \text{Ga}$$
8. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dB) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole,  $\text{ERP} = \text{EIRP} - 2.15\text{dB}$ .

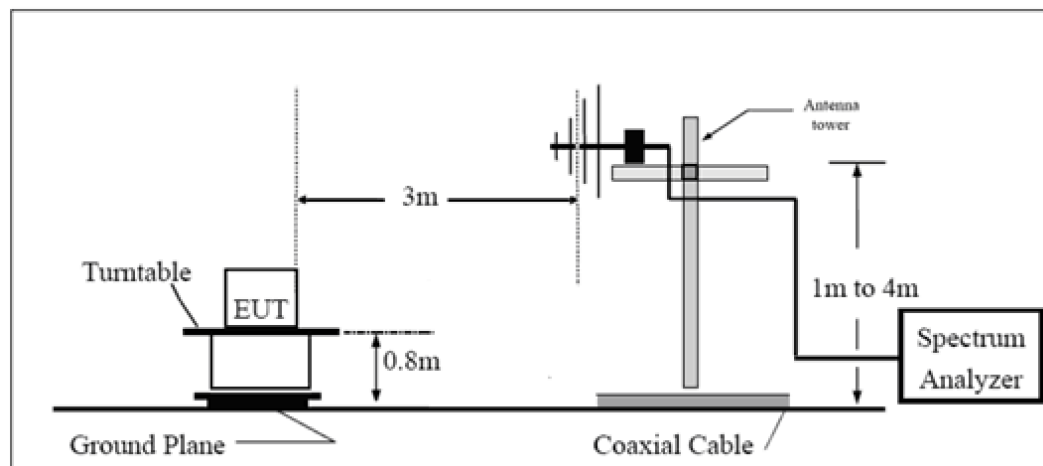
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

### Test setup

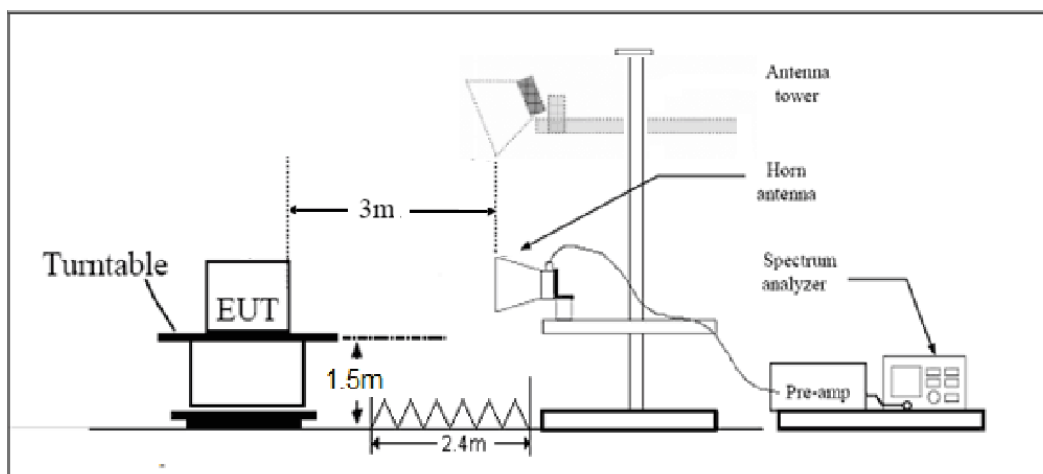
9KHz~ 30MHz



30MHz~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

### Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = \pm 1.96$ ,  $U = \pm 3.55$  dB.

### Test Results

The detailed test data see EFTA25060265-IE-01-R11-F

## 6 Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Wireless Communication Tester	Anritsu	MT8821C	6201538758	2025-05-06	2026-05-05
Climate Chamber	WEISS	VT 4002	582261194500 10	2025-05-06	2026-05-05
Wireless Communication Tester	R&S	CMW500	150415	2025-05-06	2026-05-05
Spectrum Analyzer	Keysight	N9020A	MY52330084	2025-05-06	2026-05-05
DC Power Supply	UNI-T	UTP1310+	C220795889	2025-05-06	2026-05-05
Spectrum Analyzer	R&S	FSV3030	101411	2024-12-02	2025-12-01
Spectrum Analyzer	R&S	FSV30	100815	2024-12-02	2025-12-01
Loop Antenna	SCHWARZBECK	FMZB1519	1519-047	2023-04-16	2026-04-15
TRILOG Broadband Antenna	SCHWARZBECK	VULB 9163	391	2022-09-29	2025-09-28
Horn Antenna	SCHWARZBECK	BBHA 9120D	1594	2023-12-05	2026-12-04
Software	R&S	EMC32	10.35.10	/	/



## ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.

## ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.

\*\*\*\*\* END OF REPORT \*\*\*\*\*