

TEST REPORT

FCC ID..... :	2BN8F-CAMQ50-4G	
Test Report No..... :	TCT250317E002	
Date of issue..... :	Mar. 20, 2025	
Testing laboratory	SHENZHEN TONGCE TESTING LAB	
Testing location/ address:	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China	
Applicant's name..... :	NUMLAKE TECH LIMITED	
Address..... :	UNIT 1505, 15/F WORKINGPORT COMMERCIAL BUILDING 3 HAU FOOK STREET TSIM SHA TSUI HONG KONG, China	
Manufacturer's name :	NUMLAKE TECH LIMITED	
Address..... :	UNIT 1505, 15/F WORKINGPORT COMMERCIAL BUILDING 3 HAU FOOK STREET TSIM SHA TSUI HONG KONG, China	
Standard(s)	FCC CFR Title 47 Part 2 FCC CFR Title 47 Part22 FCC CFR Title 47 Part24 FCC CFR Title 47 Part27	
Product Name..... :	4G 1080p Battery Camera with Solar Panel	
Trade Mark	N/A	
Model/Type reference..... :	Q50, Q10, Q20, Q30, Q40, Q60, Q70, Q80, Q90, Q51, Q52, Q53, Q54, Q55, Q50 pro, Q50 plus	
Rating(s)	Rechargeable Li-ion Battery DC 3.7V	
Date of receipt of test item	Mar. 17, 2025	
Date (s) of performance of test..... :	Mar. 17, 2025 ~ Mar. 20, 2025	
Tested by (+signature) ... :	Aaron MO	
Check by (+signature).... :	Beryl ZHAO	
Approved by (+signature):	Tomsin	

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TABLE OF CONTENTS

1. General Product Information	3
1.1. EUT description	3
1.2. Model(s) list.....	4
1.3. Emission Designator	4
1.4. Test Frequency	6
2. Test Result Summary	8
3. General Information.....	9
3.1. Test environment and mode.....	9
3.2. Description of Support Units.....	12
3.3. Configuration of Tested System	12
3.4. Measurement Results Explanation Example.....	12
4. Facilities and Accreditations	13
4.1. Facilities	13
4.2. Location	13
4.3. Measurement Uncertainty.....	13
5. Test Results and Measurement Data	14
5.1. Effective Radiated Power and Effective Isotropic Radiated Power Measurement	14
5.2. Peak to Average Ratio.....	16
5.3. 99% Occupied Bandwidth and 26dB Bandwidth Measurement	17
5.4. Band Edge and Conducted Spurious Emission Measurement	18
5.5. Field Strength of Spurious Radiation Measurement	20
5.6. Frequency Stability Measurement	34
Appendix B: Photographs of Test Setup	
Appendix C: Photographs of EUT	
Test Data: Refer to Appendix For LTE Band 2, Appendix For LTE Band 4, Appendix For LTE Band 5, Appendix For LTE Band 12 and Appendix For LTE Band 13	

1. General Product Information

1.1. EUT description

Product Name:	4G 1080p Battery Camera with Solar Panel
Model/Type reference:	Q50
Sample Number:	TCT250317E002-0101
Tx Frequency:	LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz
Rx Frequency:	LTE Band 2: 1930 MHz ~ 1990 MHz LTE Band 4: 2110 MHz ~ 2155 MHz LTE Band 5: 869 MHz ~ 894 MHz LTE Band 12: 729 MHz ~ 746 MHz LTE Band 13: 746 MHz ~ 756 MHz
Bandwidth:	LTE Band 2: 1.4MHz /3MHz /5MHz LTE Band 4: 1.4MHz /3MHz /5MHz LTE Band 5: 1.4MHz /3MHz /5MHz LTE Band 12: 1.4MHz /3MHz /5MHz LTE Band 13: 5MHz
Maximum Output Power to Antenna:	LTE Band 2: 22.00dBm LTE Band 4: 22.92dBm LTE Band 5: 22.58dBm LTE Band 12: 22.59dBm LTE Band 13: 23.51dBm
99% Occupied Bandwidth:	LTE Band 2: 4M52W7D LTE Band 4: 4M51W7D LTE Band 5: 4M51G7D LTE Band 12: 4M51W7D LTE Band 13: 4M50G7D
Type of Modulation:	QPSK/16QAM
Antenna Type:	FPC Antenna
Antenna Gain:	2dBi
Rating(s):	Rechargeable Li-ion Battery DC 3.7V

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

No.	Model No.	Tested with
1	Q50	☒
Other models	Q10, Q20, Q30, Q40, Q60, Q70, Q80, Q90, Q51, Q52, Q53, Q54, Q55, Q50 pro, Q50 plus	☐

Note: Q50 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names. So the test data of Q50 can represent the remaining models.

1.3. Emission Designator

LTE Band 2	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
1.4	1M10G7D	0.245	1M10W7D	0.209
3	2M72G7D	0.238	2M72W7D	0.205
5	4M51G7D	0.251	4M52W7D	0.214

LTE Band 4	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
1.4	1M09G7D	0.223	1M10W7D	0.189
3	2M72G7D	0.215	2M71W7D	0.182
5	4M50G7D	0.310	4M51W7D	0.272

LTE Band 5	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)
1.4	1M10G7D	0.168	1M10W7D	0.141
3	2M72G7D	0.166	2M73W7D	0.136
5	4M51G7D	0.175	4M51W7D	0.147

LTE Band 12	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)
1.4	1M10G7D	0.169	1M10W7D	0.143
3	2M72G7D	0.166	2M72W7D	0.138
5	4M50G7D	0.175	4M51W7D	0.150

LTE Band 13	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)
5	4M50G7D	0.217	4M50W7D	0.185

1.4. Test Frequency

LTE Band 2(1.4MHz)		LTE Band 2(3MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
18607	1850.7	18615	1851.5
18900	1880	18900	1880
19193	1909.3	19185	1908.5
LTE Band 2(5MHz)			
Channel	Frequency (MHz)		
18625	1852.5		
18900	1880		
19175	1907.5		

LTE Band 4(1.4MHz)		LTE Band 4(3MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
19957	1710.7	19965	1711.5
20175	1732.5	20175	1732.5
20393	1754.3	20385	1753.5
LTE Band 4(5MHz)			
Channel	Frequency (MHz)		
19975	1712.5		
20175	1732.5		
20375	1752.5		

LTE Band 5(1.4MHz)		LTE Band 5(3MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
20407	824.7	20415	825.5
20525	836.5	20525	836.5
20643	848.3	20635	847.5
LTE Band 5(5MHz)			
Channel	Frequency (MHz)		
20425	826.5		
20525	836.5		
20625	846.5		

LTE Band 12(1.4MHz)		LTE Band 12(3MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
23017	699.7	23025	700.5
23095	707.5	23095	707.5
23173	715.3	23165	714.5
LTE Band 12(5MHz)			
Channel	Frequency (MHz)		
23035	701.5		
23095	707.5		
23155	713.5		

LTE Band 13(5MHz)			
Channel	Frequency (MHz)		
23205	779.5		
23230	782		
23255	784.5		

2. Test Result Summary

Requirement	CFR 47 Section	Result
Conducted Output Power	§2.1046; §22.913; §24.232(c); §27.50(d); §27.50(c); §27.50(b)	PASS
Peak-to-Average Ratio	§2.1046; §24.232(d) §27.50(d); §27.50(c); §27.50(b)	PASS
Effective Radiated Power	§2.1046; §22.913; §24.232(c); §27.50(d); §27.50(c); §27.50(b)	PASS
Equivalent Isotropic Radiated Power	§2.1046; §22.913; §24.232(c); §27.50(d); §27.50(c); §27.50(b)	PASS
Occupied Bandwidth	§2.1049; §24.238(b); §27.53	PASS
Band Edge	§2.1051; §22.917(a); §27.53(h); §27.53(c); §27.53(g); §24.238(a)	PASS
Conducted Spurious Emission	§2.1051; §22.917(a); §27.53(h); §27.53(g); §27.53(c); §24.238(a)	PASS
Field Strength of Spurious Radiation	§2.1053; §22.917(a); §27.53(g); §27.53(c); §27.53(h); §24.238(a)	PASS
Frequency Stability for Temperature & Voltage	§2.1055; §22.355; §27.54; §24.235	PASS

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

3. General Information

3.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar

Keep the EUT in communication with CMW500 and select channel with modulation
All modes and data rates and positions were investigated.
Test modes are chosen to be reported as the worst case configuration below:

Test Mode		
Band	Radiated TCs	Conducted TCs
LTE Band 2	QPSK Link (1.4MHz / 3MHz / 5MHz)	16QAM Link (1.4MHz / 3MHz / 5MHz)
LTE Band 4	QPSK Link (1.4MHz / 3MHz / 5MHz)	16QAM Link (1.4MHz / 3MHz / 5MHz)
LTE Band 5	QPSK Link (1.4MHz / 3MHz / 5MHz)	16QAM Link (1.4MHz / 3MHz / 5MHz)
LTE Band 12	QPSK Link (1.4MHz / 3MHz / 5MHz)	16QAM Link (1.4MHz / 3MHz / 5MHz)
LTE Band 13	QPSK Link (5MHz)	16QAM Link (5MHz)

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas License Digital Systems v03 with maximum output power. Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission. The sample was placed 0.8m/1.5m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarization. The emissions worst-case are shown in Test Results of the following pages.

Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Max. Output Power	2	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	4	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	5	V	V	V	V	-	-	V	V	V	V	V	V	V	V
	12	V	V	V	V	-	-	V	V	V	V	V	V	V	V
	13	-	-	V	V	-	-	V	V	V	V	V	V	V	V
Peak-to-Average Ratio	2	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	4	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	5	V	V	V	V	-	-	V	V	V	V	V	V	V	V
	12	V	V	V	V	-	-	V	V	V	V	V	V	V	V
	13	-	-	V	V	-	-	V	V	V	V	V	V	V	V
26dB and 99% Bandwidth	2	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	4	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	5	V	V	V	V	-	-	V	V	V	V	V	V	V	V
	12	V	V	V	V	-	-	V	V	V	V	V	V	V	V
	13	-	-	V	V	-	-	V	V	V	V	V	V	V	V
Conducted Band Edge	2	V	V	V	V	V	V	V	V	V	V	V	V	-	V
	4	V	V	V	V	V	V	V	V	V	V	V	V	-	V
	5	V	V	V	V	-	-	V	V	V	V	V	V	-	V
	12	V	V	V	V	-	-	V	V	V	V	V	V	V	V
	13	-	-	V	V	-	-	V	V	V	V	V	V	V	V
Conducted Spurious Emission	2	V	V	V	V	V	V	V	V	V	-	-	V	V	V
	4	V	V	V	V	V	V	V	V	V	-	-	V	V	V
	5	V	V	V	V	-	-	V	V	V	-	-	V	V	V
	12	V	V	V	V	-	-	V	V	V	V	V	V	V	V
	13	-	-	V	V	-	-	V	V	V	V	V	V	V	V
Frequency Stability	2	V	-	-	-	-	-	V	V	V	-	-	V	V	V
	4	V	-	-	-	-	-	V	V	V	-	-	V	V	V
	5	V	-	-	-	-	-	V	V	V	-	-	V	V	V
	12	V	-	-	-	-	-	V	V	V	-	-	V	V	V
	13	-	-	V	-	-	-	V	V	V	-	-	V	V	V
E.R.P./ E.I.R.P.	2	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	4	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	5	V	V	V	V	-	-	V	V	V	V	V	V	V	V
	12	V	V	V	V	-	-	V	V	V	V	V	V	V	V

	13	-	-	v	v	-	-	v	v	v	v	v	v	v	v
Radiated Spurious Emission	2	-	-	-	-	-	v	v	v	v	-	-	v	v	v
	4	-	-	-	-	-	v	v	v	v	-	-	v	v	v
	5	-	-	-	v	-	-	v	v	v	-	-	v	v	v
	12	-	-	-	v	-	-	v	v	v	-	-	v	v	v
	13	-	-	-	v	-	-	v	v	v	-	-	v	v	v
Note	The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported.														

3.2. Description of Support Units

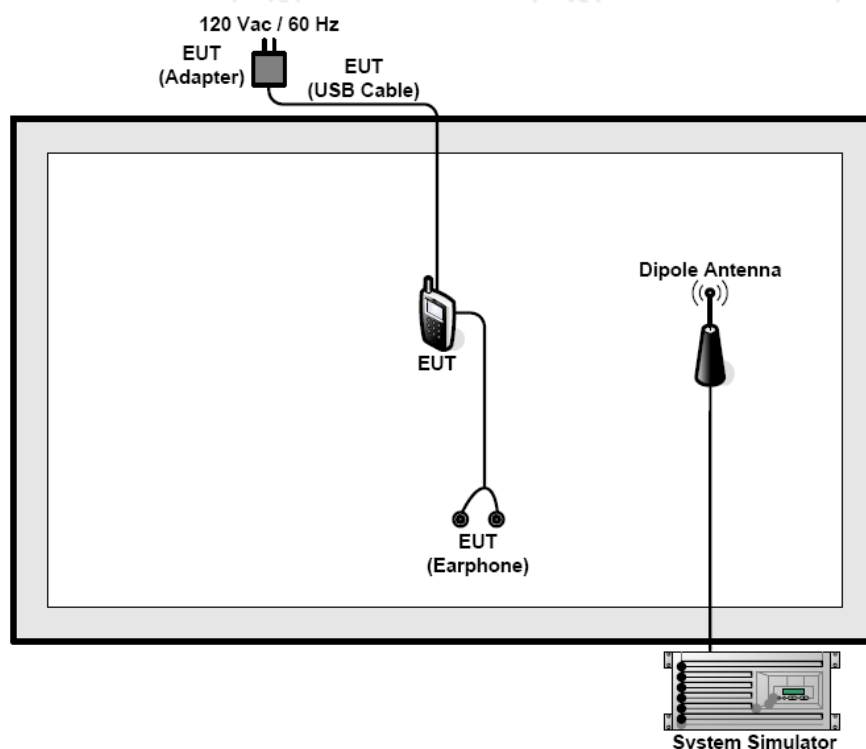
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

3.3. Configuration of Tested System



3.4. Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level. The spectrum analyzer offset is derived from RF cable loss factor. $\text{Offset} = \text{RF cable loss} + \text{attenuator factor}$.

4. Facilities and Accreditations

4.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Innovation, Science and Economic Development Canada for radio equipment testing.

4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

4.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	± 3.10 dB
2	RF power, conducted	± 1.08 dB
3	Occupied Bandwidth	± 57.75 kHz
4	Frequency Stability	± 58.82 Hz
5	Spurious emissions, conducted	± 2.94 dB
6	All emissions, radiated(<1 GHz)	± 4.56 dB
7	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
8	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB

5. Test Results and Measurement Data

5.1. Effective Radiated Power and Effective Isotropic Radiated Power Measurement

5.1.1. Test Specification

Test Requirement:	Refer to section 2
Test Method:	FCC part 2.1046
Limit:	LTE Band 2: 2W LTE Band 4: 1W LTE Band 5: 7W LTE Band 12: 3W LTE Band 13: 3W
Test Setup:	 The diagram illustrates the test setup. On the left, there is a 'System Simulator' represented by a purple rectangular box with a screen and two buttons. A black line representing a cable connects the right side of the System Simulator to the left side of the 'EUT' (Equipment Under Test), which is depicted as a black mobile phone. The label 'EUT' is placed to the right of the phone.
Test Procedure:	1. The transmitter output port was connected to the system simulator. 2. Set EUT at maximum power through system simulator. 3. Select lowest, middle, highest channels for each band and different modulation. 4. Measure and record the power level from the system simulator. 5. Calculate the ERP and EIRP The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is: $\text{ERP or EIRP} = P_{\text{Meas}} + G_T - L_C$ where: ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas}, typically dBW or dBm); P_{Meas} = measured transmitter output power or PSD, in dBm or dBW; G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP); L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB. <i>Note: For personal/portable radios utilizing an integral</i>

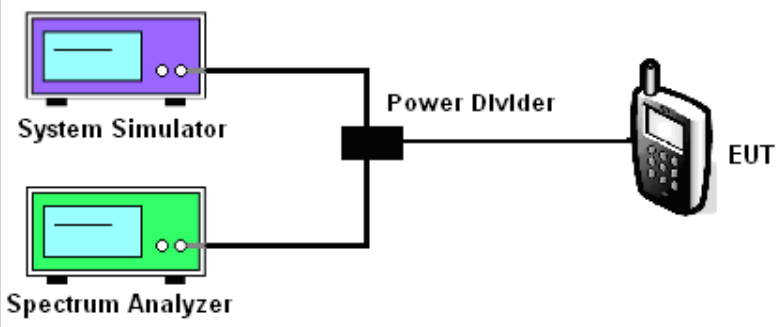
	antenna, the factor L/C is typically negligible. However, in a fixed station transmit system that utilizes a long cable run between the transmitter and the transmitting antenna, this factor can be significant.
Test Result:	PASS

5.1.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Wideband Radio Communication Tester	R&S	CMW500	137557	Jan. 20, 2026
Combiner Box	Ascentest	AT890-RFB	/	/

5.2. Peak to Average Ratio

5.2.1. Test Specification

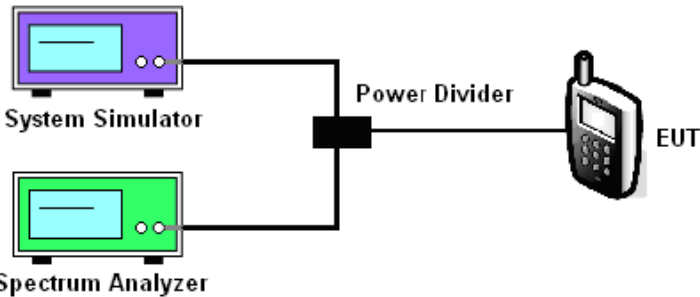
Test Requirement:	Refer to section 2
Test Method:	FCC KDB 971168 D01v03
Limit:	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.
Test Setup:	 The diagram illustrates the test setup. A System Simulator (represented by a purple monitor icon) and a Spectrum Analyzer (represented by a green monitor icon) are connected to a central Power Divider (represented by a black square). The Power Divider is then connected to the EUT (Equipment Under Test, represented by a mobile phone icon).
Test Procedure:	1. The testing follows FCC KDB 971168 D01v03 Section 5.7.1. 2. The EUT was connected to spectrum analyzer and system simulator via a power divider. 3. Set EUT to transmit at maximum output power. 4. Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer. Record the maximum PAPR level associated with a probability of 0.1%.
Test Result:	PASS

5.2.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Radio frequency control box	MWRFtest	MW500-RF CB	MW211224TCT	/
Wideband Radio Communication Tester	R&S	CMW500	137557	Jan. 20, 2026
Spectrum Analyzer	R&S	FSV40-N	102188	Jan. 20, 2026
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/

5.3. 99% Occupied Bandwidth and 26dB Bandwidth Measurement

5.3.1. Test Specification

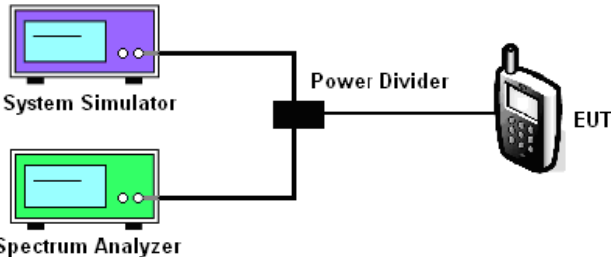
Test Requirement:	Refer to section 2
Test Method:	FCC part 2.1049
Limit:	N/A
Test Setup:	 The diagram shows a System Simulator (top) and a Spectrum Analyzer (bottom) connected to a central Power Divider. The Power Divider is then connected to the EUT (Equipment Under Test) on the right.
Test Procedure:	1. The testing follows FCC KDB 971168 D01v03 Section 4.2. 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider. 3. The RF output of the EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement. 4. The 99% occupied bandwidth were measured, set RBW= 1% of OBW, VBW= 3*RBW, sample detector, trace maximum hold. 5. The 26dB bandwidth were measured, set RBW= 1% of EBW, VBW= 3*RBW, peak detector, trace maximum hold.
Test Result:	PASS

5.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Radio frequency control box	MWRFTest	MW500-RF CB	MW211224TCT	/
Wideband Radio Communication Tester	R&S	CMW500	137557	Jan. 20, 2026
Spectrum Analyzer	R&S	FSV40-N	102188	Jan. 20, 2026
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/

5.4. Band Edge and Conducted Spurious Emission Measurement

5.4.1. Test Specification

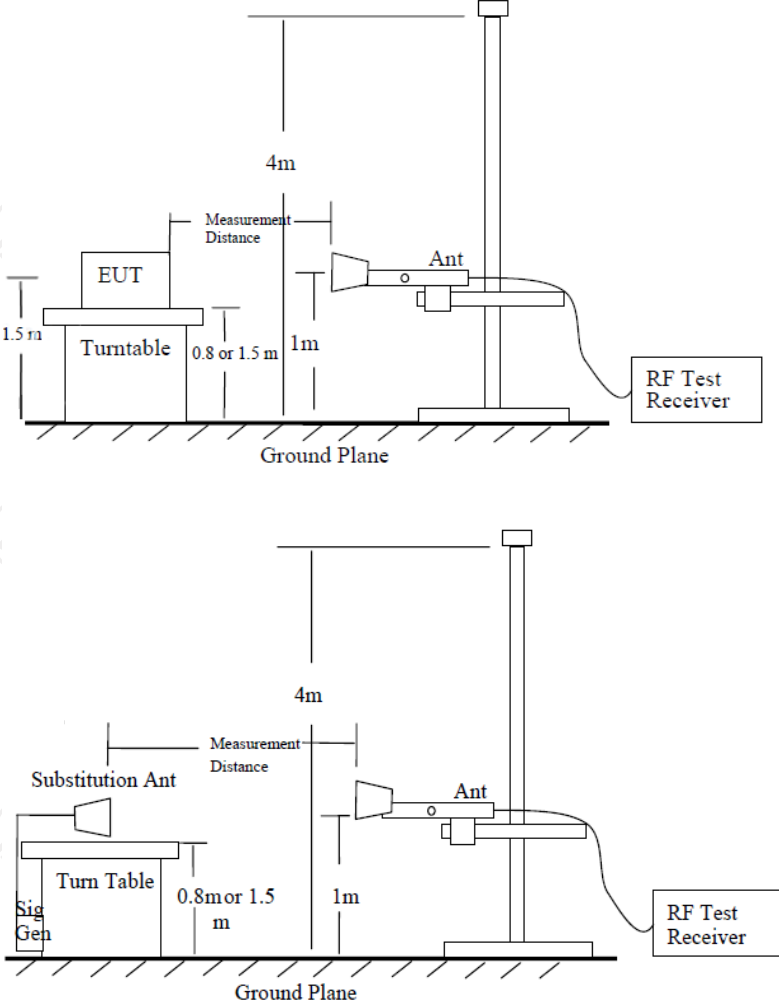
Test Requirement:	Refer to section 2
Test Method:	FCC part2.1051
Limit:	-13dbm Band 13: -13dBm/-35dbm/-40dbm
Test Setup:	 The diagram shows a System Simulator (purple box) and a Spectrum Analyzer (green box) connected to a Power Divider (black box). The Power Divider is also connected to the EUT (Equipment Under Test, represented by a mobile phone icon).
Test Procedure:	1. The testing follows FCC KDB 971168 D01v03 Section 6.0. 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider. 3. The RF output of EUT was connected to the spectrum analyzer by an RF cable. The path loss was compensated to the results for each measurement. 4. The band edges of low and high channels for the highest RF powers were measured. 5. The conducted spurious emission for the whole frequency range was taken. 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. 7. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power $P(\text{Watts}) = P(W) - [43 + 10\log(P)] \text{ (dB)} = [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} = -13\text{dBm}.$ For Band 17, the limit line is derived from $55 + 10\log(P)$ dB below the transmitter power
Test Result:	PASS

5.4.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Radio frequency control box	MWRFTest	MW500-RF CB	MW211224TCT	/
Wideband Radio Communication Tester	R&S	CMW500	137557	Jan. 20, 2026
Spectrum Analyzer	R&S	FSV40-N	102188	Jan. 20, 2026
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025
Combiner Box	Ascentest	AT890-RFB	/	/

5.5. Field Strength of Spurious Radiation Measurement

5.5.1. Test Specification

Test Requirement:	Refer to section 2
Test Method:	FCC part 2.1053
Limit:	For Band 2, 4, 5, 12: -13dBm For Band 13: -40dBm/-13dBm
Test setup:	
Test Procedure:	1. The testing follows FCC KDB 971168 D01v03 Section 5.8 and ANSI / TIA-603-D-2010 Section 2.2.12. 2. The EUT was placed on a rotatable wooden table 0.8 meters above the ground. 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower. 4. The table was rotated 360 degrees to determine the position of the highest spurious emission. 5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum

	spurious emission for both horizontal and vertical polarizations. 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission. 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator. 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission. 9. Taking the record of output power at antenna port. 10. Repeat step 7 to step 8 for another polarization. 11. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain 12. ERP (dBm) = EIRP - 2.15 13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. 14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts) = P(W) - [43 + 10log(P)] (dB) = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.
Test results:	PASS
Remark:	All modulations have been tested, but only the worst modulation show in this test item.

5.5.2. Test Instruments

Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Wideband Radio Communication Tester	R&S	CMW500	137557	Jan. 20, 2026
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 26, 2025
Signal Generator	Agilent	N5173B	MY58108823	Jan. 20, 2026
Broadband Antenna	Schwarzbeck	VULB9163	340	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jun. 28, 2025
Broadband Antenna	Schwarzbeck	VULB9163	412	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9120D	1201	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Jan. 22, 2026
Coaxial cable	SKET	RE-03-D	/	Jun. 26, 2025
Coaxial cable	SKET	RE-03-M	/	Jun. 26, 2025
Coaxial cable	SKET	RE-03-L	/	Jun. 26, 2025
Coaxial cable	SKET	RE-04-D	/	Jun. 26, 2025
Coaxial cable	SKET	RE-04-M	/	Jun. 26, 2025
Coaxial cable	SKET	RE-04-L	/	Jun. 26, 2025
Antenna Mast	Keleto	RE-AM	/	/
EMI Test Software	EZ_EMCC	FA-03A2 RE+	1.1.4.2	/

5.5.3. Test Data

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBμV/m)	Limit@3m (dBμV/m)
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Note: 1. Emission Level=Reading+ Cable loss+Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

Band	Band 2(QPSK, 5MHz)	Test channel:	Lowest
Test mode:		Temperature:	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
3720.00	Vertical	-42.04	1.05	-40.99	-13.00	PASS
5580.00	V	-47.17	6.98	-40.19		
7440.00	V	-62.66	10.40	-52.26		
3720.00	Horizontal	-40.52	2.08	-38.44		
5580.00	H	-45.27	7.46	-37.81		
7440.00	H	-59.37	10.00	-49.37		

Band	Band 2(QPSK, 5MHz)	Test channel:	Middle
Test mode:		Temperature:	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
3760.00	Vertical	-42.25	1.22	-41.03	-13.00	PASS
5640.00	V	-50.84	7.36	-43.48		
7520.00	V	-59.67	10.95	-48.72		
3760.00	Horizontal	-41.84	2.01	-39.83		
5640.00	H	-46.19	7.55	-38.64		
7520.00	H	-60.85	10.11	-50.74		

Band	Band 2(QPSK, 5MHz)	Test channel:	Highest
Test mode:		Temperature:	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
3800.00	Vertical	-43.33	1.59	-41.74	-13.00	PASS
5700.00	V	-53.04	7.43	-45.61		
7600.00	V	-59.84	10.53	-49.31		
3800.00	Horizontal	-38.15	2.88	-35.27		
5700.00	H	-48.04	7.81	-40.23		
7600.00	H	-61.60	10.23	-51.37		

Band	Band 2(16QAM, 5MHz)	Test channel:	Lowest
Test mode:		Temperature:	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
3720.00	Vertical	-40.58	1.05	-39.53	-13.00	PASS
5580.00	V	-48.30	6.98	-41.32		
7440.00	V	-61.07	10.40	-50.67		
3720.00	Horizontal	-39.05	2.08	-36.97		
5580.00	H	-46.06	7.46	-38.60		
7440.00	H	-58.18	10.00	-48.18		

Band	Band 2(16QAM, 5MHz)	Test channel:	Middle
Test mode:		Temperature:	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
3760.00	Vertical	-41.49	1.32	-40.17	-13.00	PASS
5640.00	V	-51.73	7.21	-44.52		
7520.00	V	-60.19	10.43	-49.76		
3760.00	Horizontal	-39.92	2.48	-37.44		
5640.00	H	-46.77	7.63	-39.14		
7520.00	H	-61.19	10.03	-51.16		

Band	Band 2(16QAM, 5MHz)	Test channel:	Highest
Test mode:		Temperature:	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
3800.00	Vertical	-42.83	1.59	-41.24	-13.00	PASS
5700.00	V	-52.97	7.43	-45.54		
7600.00	V	-61.45	10.53	-50.92		
3800.00	Horizontal	-38.20	2.88	-35.32		
5700.00	H	-47.68	7.81	-39.87		
7600.00	H	-58.96	10.23	-48.73		

Band	Band 4(QPSK, 5MHz)	Test channel:	Lowest
Test mode:		Temperature:	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
3440.00	Vertical	-41.78	-0.48	-42.26	-13.00	PASS
5160.00	V	-45.90	6.15	-39.75		
6880.00	V	-62.39	9.78	-52.61		
3440.00	Horizontal	-39.87	-0.11	-39.98		
5160.00	H	-45.73	6.59	-39.14		
6880.00	H	-58.78	9.70	-49.08		

Band	Band 4(QPSK, 5MHz)	Test channel:	Middle
Test mode:		Temperature:	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
3465.00	Vertical	-40.83	-0.46	-41.29	-13.00	PASS
5197.50	V	-50.58	6.21	-44.37		
6930.00	V	-61.23	9.99	-51.24		
3465.00	Horizontal	-37.91	-0.11	-38.02		
5197.50	H	-47.03	6.66	-40.37		
6930.00	H	-60.60	9.88	-50.72		

Band	Band 4(QPSK, 5MHz)	Test channel:	Highest
Test mode:		Temperature:	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
3490.00	Vertical	-41.61	-0.45	-42.06	-13.00	PASS
5235.00	V	-52.86	6.27	-46.59		
6980.00	V	-59.06	10.21	-48.85		
3490.00	Horizontal	-38.67	-0.11	-38.78		
5235.00	H	-49.29	6.73	-42.56		
6980.00	H	-61.89	10.07	-51.82		

Band	Band 4(16QAM, 5MHz)	Test channel:	Lowest
Test mode:		Temperature:	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
3440.00	Vertical	-41.69	-0.48	-42.17	-13.00	PASS
5160.00	V	-47.65	6.15	-41.50		
6880.00	V	-61.15	9.78	-51.37		
3440.00	Horizontal	-41.41	-0.11	-41.52		
5160.00	H	-46.29	6.59	-39.70		
6880.00	H	-59.52	9.70	-49.82		

Band	Band 4(16QAM, 5MHz)	Test channel:	Middle
Test mode:		Temperature:	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
3465.00	Vertical	-40.46	-0.46	-40.92	-13.00	PASS
5197.50	V	-53.09	6.21	-46.88		
6930.00	V	-61.34	9.99	-51.35		
3465.00	Horizontal	-40.05	-0.11	-40.16		
5197.50	H	-48.63	6.66	-41.97		
6930.00	H	-62.68	9.88	-52.80		

Band	Band 4(16QAM, 5MHz)	Test channel:	Highest
Test mode:		Temperature:	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
3490.00	Vertical	-43.60	-0.45	-44.05	-13.00	PASS
5235.00	V	-51.64	6.27	-45.37		
6980.00	V	-62.09	10.21	-51.88		
3490.00	Horizontal	-39.59	-0.11	-39.70		
5235.00	H	-50.04	6.73	-43.31		
6980.00	H	-62.03	10.07	-51.96		

Band	Band 5(QPSK, 5MHz)	Test channel:	Lowest
Test mode:		Temperature:	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
1658.00	Vertical	-43.26	-6.46	-49.72	-13.00	PASS
2487.00	V	-46.69	-2.84	-49.53		
3316.00	V	-61.17	-0.48	-61.65		
1658.00	Horizontal	-41.44	-6.30	-47.74		
2487.00	H	-43.08	-2.95	-46.03		
3316.00	H	-60.21	-0.10	-60.31		

Band	Band 5(QPSK, 5MHz)	Test channel:	Middle
Test mode:		Temperature:	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
1673.00	Vertical	-40.73	-6.46	-47.19	-13.00	PASS
2509.50	V	-52.60	-2.75	-55.35		
3346.00	V	-59.02	-0.47	-59.49		
1673.00	Horizontal	-40.34	-6.32	-46.66		
2509.50	H	-45.95	-2.86	-48.81		
3346.00	H	-60.03	-0.10	-60.13		

Band	Band 5(QPSK, 5MHz)	Test channel:	Highest
Test mode:		Temperature:	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
1688.00	Vertical	-44.52	-6.45	-50.97	-13.00	PASS
2532.00	V	-53.78	-2.65	-56.43		
3376.00	V	-65.22	-0.47	-65.69		
1688.00	Horizontal	-40.41	-6.34	-46.75		
2532.00	H	-50.05	-2.74	-52.79		
3376.00	H	-64.77	-0.10	-64.87		

Band	Band 5(16QAM, 5MHz)				Test channel:	Lowest
Test mode:					Temperature:	25°C
					Relative Humidity:	56%
Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.						
Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
1658.00	Vertical	-39.49	-6.46	-45.95	-13.00	PASS
2487.00	V	-46.96	-2.84	-49.80		
3316.00	V	-61.62	-0.48	-62.10		
1658.00	Horizontal	-40.25	-6.30	-46.55		
2487.00	H	-46.72	-2.95	-49.67		
3316.00	H	-59.35	-0.10	-59.45		
Band	Band 5(16QAM, 5MHz)				Test channel:	Middle
Test mode:					Temperature:	25°C
					Relative Humidity:	56%
Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.						
Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
1673.00	Vertical	-40.60	-6.46	-47.06	-13.00	PASS
2509.50	V	-53.82	-2.75	-56.57		
3346.00	V	-60.39	-0.47	-60.86		
1673.00	Horizontal	-36.93	-6.32	-43.25		
2509.50	H	-47.72	-2.86	-50.58		
3346.00	H	-60.56	-0.10	-60.66		
Band	Band 5(16QAM, 5MHz)				Test channel:	Highest
Test mode:					Temperature:	25°C
					Relative Humidity:	56%
Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.						
Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
1688.00	Vertical	-44.07	-6.45	-50.52	-13.00	PASS
2532.00	V	-52.49	-2.65	-55.14		
3376.00	V	-60.62	-0.47	-61.09		
1688.00	Horizontal	-41.46	-6.34	-47.80		
2532.00	H	-49.41	-2.74	-52.15		
3376.00	H	-63.44	-0.10	-63.54		

Band	Band 12(QPSK, 5MHz)	Test channel:	Lowest
Test mode:		Temperature:	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
1408.00	Vertical	-41.55	-5.37	-46.92	-13.00	PASS
2112.00	V	-47.41	-4.21	-51.62		
2816.00	V	-63.47	-1.36	-64.83		
1408.00	Horizontal	-43.55	-5.24	-48.79		
2112.00	H	-43.98	-3.97	-47.95		
2816.00	H	-60.28	-1.12	-61.40		

Band	Band 12(QPSK, 5MHz)	Test channel:	Middle
Test mode:		Temperature:	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
1415.00	Vertical	-41.91	-5.41	-47.32	-13.00	PASS
2122.50	V	-51.52	-4.17	-55.69		
2830.00	V	-60.58	-1.30	-61.88		
1415.00	Horizontal	-38.99	-5.28	-44.27		
2122.50	H	-45.07	-3.94	-49.01		
2830.00	H	-58.87	-1.04	-59.91		

Band	Band 12(QPSK, 5MHz)	Test channel:	Highest
Test mode:		Temperature:	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
1422.00	Vertical	-44.77	-5.45	-50.22	-13.00	PASS
2133.00	V	-53.63	-4.13	-57.76		
2844.00	V	-64.74	-1.24	-65.98		
1422.00	Horizontal	-39.59	-5.31	-44.90		
2133.00	H	-47.83	-3.92	-51.75		
2844.00	H	-62.60	-0.96	-63.56		

Band	Band 12(16QAM, 5MHz)				Test channel:	Lowest
Test mode:					Temperature:	25°C
					Relative Humidity:	56%
Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.						
Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
1408.00	Vertical	-42.78	-5.37	-48.15	-13.00	PASS
2112.00	V	-44.07	-4.21	-48.28		
2816.00	V	-61.65	-1.36	-63.01		
1408.00	Horizontal	-39.51	-5.24	-44.75		
2112.00	H	-46.00	-3.97	-49.97		
2816.00	H	-59.46	-1.12	-60.58		
Band	Band 12(16QAM, 5MHz)				Test channel:	Middle
Test mode:					Temperature:	25°C
					Relative Humidity:	56%
Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.						
Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
1415.00	Vertical	-39.60	-5.41	-45.01	-13.00	PASS
2122.50	V	-53.19	-4.17	-57.36		
2830.00	V	-59.78	-1.30	-61.08		
1415.00	Horizontal	-40.91	-5.28	-46.19		
2122.50	H	-47.90	-3.94	-51.84		
2830.00	H	-59.16	-1.04	-60.20		
Band	Band 12(16QAM, 5MHz)				Test channel:	Highest
Test mode:					Temperature:	25°C
					Relative Humidity:	56%
Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.						
Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
1422.00	Vertical	-42.81	-5.45	-48.26	-13.00	PASS
2133.00	V	-53.10	-4.13	-57.23		
2844.00	V	-58.77	-1.24	-60.01		
1422.00	Horizontal	-39.44	-5.31	-44.75		
2133.00	H	-50.17	-3.92	-54.09		
2844.00	H	-62.16	-0.96	-63.12		

Band	Band 13(QPSK, 5MHz)	Test channel:	Lowest
Test mode:		Temperature:	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
1564.00	Vertical	-49.38	-6.29	-55.67	-40.00	PASS
2346.00	V	-46.59	-3.35	-49.94	-13.00	
3128.00	V	-62.91	-0.51	-63.42	-13.00	
1564.00	Horizontal	-50.18	-6.04	-56.22	-40.00	
2346.00	H	-43.91	-3.33	-47.24	-13.00	
3128.00	H	-59.07	-0.09	-59.16	-13.00	

Band	Band 13(QPSK, 5MHz)	Test channel:	Middle
Test mode:		Temperature:	25°C
		Relative Humidity:	56%

Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
1564.00	Vertical	-49.87	-6.29	-56.16	-40.00	PASS
2346.00	V	-52.11	-3.35	-55.46	-13.00	
3128.00	V	-58.57	-0.51	-59.08	-13.00	
1564.00	Horizontal	-47.82	-6.04	-53.86	-40.00	
2346.00	H	-46.21	-3.33	-49.54	-13.00	
3128.00	H	-60.14	-0.09	-60.23	-13.00	

Band	Band 13(QPSK, 5MHz)	Test channel:	Highest
Test mode:		Temperature:	25°C
		Relative Humidity:	56%

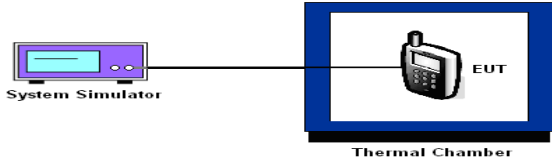
Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
1564.00	Vertical	-49.97	-6.29	-56.26	-40.00	PASS
2346.00	V	-52.23	-3.35	-55.58	-13.00	
3128.00	V	-64.25	-0.51	-64.76	-13.00	
1564.00	Horizontal	-48.99	-6.04	-55.03	-40.00	
2346.00	H	-47.90	-3.33	-51.23	-13.00	
3128.00	H	-63.03	-0.09	-63.12	-13.00	

Band	Band 13(16QAM, 5MHz)				Test channel:	Lowest
Test mode:					Temperature:	25°C
					Relative Humidity:	56%
Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.						
Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
1564.00	Vertical	-49.39	-6.29	-55.68	-40.00	PASS
2346.00	V	-45.35	-3.35	-48.70	-13.00	
3128.00	V	-61.17	-0.51	-61.68	-13.00	
1564.00	Horizontal	-47.86	-6.04	-53.90	-40.00	
2346.00	H	-47.53	-3.33	-50.86	-13.00	
3128.00	H	-58.11	-0.09	-58.20	-13.00	
Band	Band 13(16QAM, 5MHz)				Test channel:	Middle
Test mode:					Temperature:	25°C
					Relative Humidity:	56%
Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.						
Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
1564.00	Vertical	-52.15	-6.29	-58.44	-40.00	PASS
2346.00	V	-51.74	-3.35	-55.09	-13.00	
3128.00	V	-59.16	-0.51	-59.67	-13.00	
1564.00	Horizontal	-49.45	-6.04	-55.49	-40.00	
2346.00	H	-44.72	-3.33	-48.05	-13.00	
3128.00	H	-61.07	-0.09	-61.16	-13.00	
Band	Band 13(16QAM, 5MHz)				Test channel:	Highest
Test mode:					Temperature:	25°C
					Relative Humidity:	56%
Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.						
Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
1564.00	Vertical	-49.86	-6.29	-56.15	-40.00	PASS
2346.00	V	-52.22	-3.35	-55.57	-13.00	
3128.00	V	-59.63	-0.51	-60.14	-13.00	
1564.00	Horizontal	-50.45	-6.04	-56.49	-40.00	
2346.00	H	-46.69	-3.33	-50.02	-13.00	
3128.00	H	-62.87	-0.09	-62.96	-13.00	

5.6. Frequency Stability Measurement

5.6.1. Test Specification

Test Requirement:	FCC part 27.54, FCC part 22.355, 24.235
Test Method:	FCC Part 2.1055
Limit:	±2.5 ppm
Test Setup:	 The diagram shows a 'System Simulator' connected by a line to a 'Thermal Chamber'. Inside the thermal chamber is the 'EUT' (Equipment Under Test).
Test Procedure:	Test Procedures for Temperature Variation 1. The testing follows FCC KDB 971168 D01v03 Section 9.0. 2. The EUT was set up in the thermal chamber and connected with the system simulator. 3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute. 4. With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute. Test Procedures for Voltage Variation 1. The testing follows FCC KDB 971168 D01v03 Section 9.0. 2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator. 3. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT. 4. The variation in frequency was measured for the worst case. 5. The worst case(worst bandwidth) for frequency stability reported in the Test Data. The worst bandwidth is as follow: 1.4M is for LTE Band 2, 1.4M is for LTE Band 4, 1.4M is for LTE Band 5, 1.4M is for LTE Band 12, 5M is for LTE Band 13,
Test Result:	PASS

5.6.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Wideband Radio Communication Tester	R&S	CMW500	137557	Jan. 20, 2026
Programable tempratuce and humidity chamber	JQ	JQ-2000	/	Jun. 26, 2025
DC power supply	Kingrang	KR3005K	/	Jun. 26, 2025
Combiner Box	AT890-RFB	Ascentest	/	/

Appendix B: Photographs of Test Setup

Please refer to document Appendix No.: TCT250317E002-A

Appendix C: Photographs of EUT

Please refer to document Appendix No.: TCT250317E002-B & TCT250317E002-C

Test Data for Appendix Refer to Appendix For LTE Band 2, Appendix For LTE Band 4, Appendix For LTE Band 5, Appendix For LTE Band 12 and Appendix For LTE Band 13

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