

TEST REPORT

FCC ID	2AI62-W105	
Test Report No	TCT250407E056	
Date of issue	May 22, 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	SOTEN TECHNOLOGY (HONGKONG) CO., LIMITED	
Address	FLAT/RM A10 9/F SILVERCORP INTERNATIONAL TOWER, 707-713 NATHAN ROAD MONGKOK KL, Hong Kong	
Manufacturer's name ...	Shenzhen SOTEN Technology Co., Ltd	
Address	10th Floor, 2nd Building, BaiWang Research and development building, No. 5308 Shahe west road, Xili, Nanshan district, ShenZhen, 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	RUGGED TABLET PC	
Trade Mark	HUGEROCK	
Model/Type reference	W105	
Rating(s)	Refer to EUT description of page 3	
Date of receipt of test item	Apr. 07, 2025	
Date (s) of performance of test	Apr. 07, 2025 ~ May 22, 2025	
Tested by (+signature) ...	Aaron MO	
Check by (+signature)	Beryl ZHAO	
Approved by (+signature):	Tomsin	

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1. General Product Information

1.1. EUT description

Product Name.....:	RUGGED TABLET PC
Model/Type reference.....:	W105
Sample Number.....:	TCT250407E032-0101
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 7: 2500 MHz ~ 2570 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 7: 2620 MHz ~ 2690 MHz
Bandwidth.....:	LTE Band 2: 1.4MHz /3MHz /5MHz /10MHz /15MHz /20MHz LTE Band 4: 1.4MHz /3MHz /5MHz /10MHz /15MHz /20MHz LTE Band 5: 1.4MHz /3MHz /5MHz /10MHz LTE Band 7: 5MHz /10MHz /15MHz /20MHz
Maximum Output Power to Antenna.....:	LTE Band 2: 25.72dBm LTE Band 4: 24.62dBm LTE Band 5: 21.93dBm LTE Band 7: 22.72dBm
99% Occupied Bandwidth.....:	LTE Band 2: 18M0G7D LTE Band 4: 17M9G7D LTE Band 5: 8M98G7D LTE Band 7: 17M9G7D
Type of Modulation.....:	QPSK/16QAM
Antenna Type.....:	PIFA Antenna
Antenna Gain.....:	LTE Band 2: 1.88dBi LTE Band 4: 0.89dBi LTE Band 5: 0.35dBi LTE Band 7: 0.34dBi
Rating(s).....:	Adapter Information: Model: JHD-AP048U-BA-PD05 Input: AC 100-240V, 50/60Hz, 1.2A Output: DC 5V, 3A/ DC 9V, 3A/ DC 12V, 3A/ DC 15V, 3A/ DC 20V, 2.25A Rechargeable Li-ion Battery DC 7.6V

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

None.

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	1M09G7D	0.370	1M09W7D	0.339
3	2M69G7D	0.362	2M68W7D	0.344
5	4M50G7D	0.369	4M50W7D	0.349
10	8M99G7D	0.362	8M98W7D	0.342
15	13M4G7D	0.364	13M4W7D	0.341
20	18M0G7D	0.373	17M9W7D	0.313

LTE Band 4	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
1.4	1M09G7D	0.279	1M09W7D	0.247
3	2M69G7D	0.281	2M69W7D	0.230
5	4M50G7D	0.281	4M50W7D	0.220
10	8M98G7D	0.277	8M98W7D	0.262
15	13M4G7D	0.277	13M4W7D	0.259
20	17M9G7D	0.290	17M9W7D	0.240

LTE Band 5	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)
1.4	2M97G7D	0.156	1M09W7D	0.140
3	2M69G7D	0.149	2M68W7D	0.138
5	4M50G7D	0.154	4M50W7D	0.114
10	8M98G7D	0.150	8M98W7D	0.138

LTE Band 7	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
5	4M50G7D	0.186	4M50W7D	0.137
10	8M98G7D	0.183	8M97W7D	0.150
15	13M4G7D	0.183	13M5W7D	0.170
20	17M9G7D	0.187	17M9W7D	0.151

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)		LTE Band 2(10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
18625	1852.5	18650	1855
18900	1880	18900	1880
19175	1907.5	19150	1905
LTE Band 2(15MHz)		LTE Band 2(20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
18675	1857.5	18700	1860
18900	1880	18900	1880
19125	1902.5	19100	1900

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)		LTE Band 4(10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
19975	1712.5	20000	1715
20175	1732.5	20175	1732.5
20375	1752.5	20350	1750
LTE Band 4(15MHz)		LTE Band 4(20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
20025	1717.5	20050	1720
20175	1732.5	20175	1732.5
20325	1747.5	20300	1745

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)		LTE Band 5(10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
20425	826.5	20450	829
20525	836.5	20525	836.5
20625	846.5	20600	844

LTE Band 7(5MHz)		LTE Band 7(10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
20775	2502.5	20800	2505.0
21100	2535	21100	2535
21425	2567.5	21400	2565.0
LTE Band 7(15MHz)		LTE Band 7(20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
20825	2507.5	20850	2510.0
21100	2535	21100	2535
21375	2562.5	21350	2560.0

2. Test Result Summary

Requirement	CFR 47 Section	Result
Conducted Output Power	§2.1046; §22.913; §24.232(c); §27.50(d); §27.50(h)	PASS
Peak-to-Average Ratio	§2.1046; §24.232(d) §27.50(d); §27.50(h)	PASS
Effective Radiated Power	§2.1046; §22.913; §24.232(c); §27.50(d); §27.50(h)	PASS
Equivalent Isotropic Radiated Power	§2.1046; §22.913; §24.232(c); §27.50(d); §27.50(h)	PASS
Occupied Bandwidth	§2.1049; §24.238(b); §27.53; §90.209(a)	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 / 10MHz / 15MHz / 20MHz)	16QAM Link (1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz)
LTE Band 4	QPSK Link (1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz)	16QAM Link (1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz)
LTE Band 5	QPSK Link (1.4MHz / 3MHz / 5MHz / 10MHz)	16QAM Link (1.4MHz / 3MHz / 5MHz / 10MHz)
LTE Band 7	QPSK Link (5MHz / 10MHz / 15MHz / 20MHz)	16QAM Link (5MHz / 10MHz / 15MHz / 20MHz)

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
	7	-	-	v	v	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
	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
	7	-	-	v	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
	4	v	v	v	v	v	v	v	v	-	-	v	v	v	v
	5	v	v	v	v	-	-	v	v	-	-	v	v	v	v
	7	-	-	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
	4	v	v	v	v	v	v	v	v	-	-	v	v	-	v
	5	v	v	v	v	-	-	v	v	-	-	v	v	-	v
	7	-	-	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	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
	7	-	-	v	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
	7	-	-	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
	7	-	-	v	v	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	v
	5	-	-	-	v	-	-	v	v	v	-	v	v	v	v
	7	-	-	v	-	-	-	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

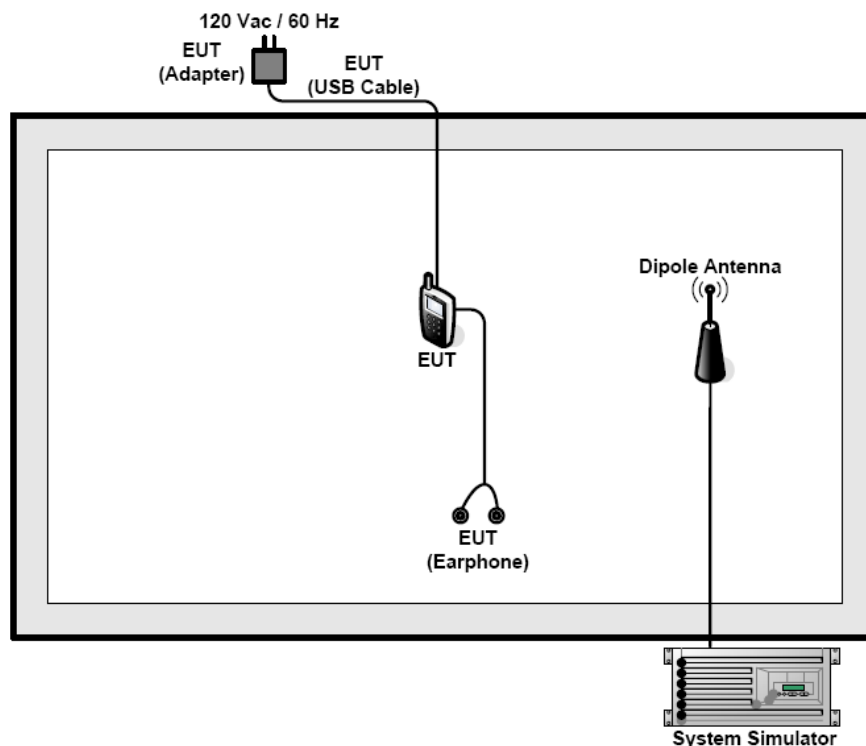
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

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 and attenuator 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 and attenuator 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.

- A2LA-No.: 4320.01

SHENZHEN TONGCE TESTING LAB

The testing lab has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

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

5. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded 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	± 0.12 dB
3	Spurious emissions, conducted	± 0.11 dB
4	All emissions, radiated(<1 GHz)	± 4.56 dB
5	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB

6. Test Results and Measurement Data

6.1. Effective Radiated Power and Effective Isotropic Radiated Power Measurement

6.1.1. 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 7: 2W
Test Setup:	 The diagram illustrates the test setup. On the left is a 'System Simulator' represented by a computer monitor icon. A cable connects it to an 'EUT' (Equipment Under Test) represented by a mobile phone icon on the right.
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 antenna, the factor L_C is typically negligible. However, in a</i>

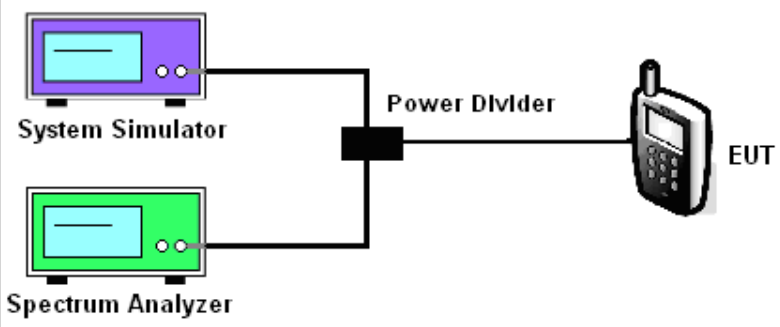
	<i>fixed station transmit system that utilizes a long cable run between the transmitter and the transmitting antenna, this factor can be significant.</i>
Test Result:	PASS

6.1.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Date of Cal.	Due Date
Wideband Radio Communication Tester	R&S	CMW500	137557	Jan. 21, 2025	Jan. 20, 2026
Power detector box	MWRFTest	MW100-RFCB	MW210531TCT	Jan.21, 2025	Jan. 20, 2026

6.2. Peak to Average Ratio

6.2.1. Test Specification

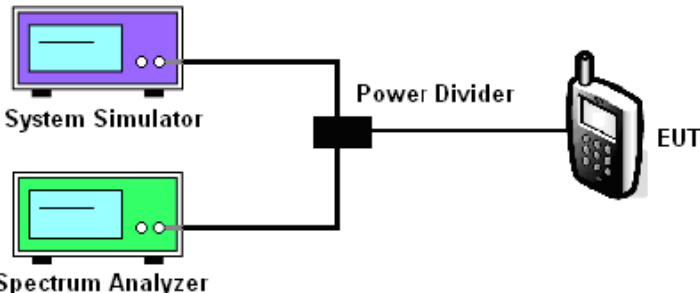
Test Requirement:	Refer to section 2
Test Method:	FCC KDB 971168 D01v03
Limit:	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.
Test Setup:	 The diagram illustrates the test setup. A System Simulator (represented by a purple monitor icon) and a Spectrum Analyzer (represented by a green monitor icon) are both connected to a central Power Divider (represented by a black square icon). 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

6.2.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Date of Cal.	Due Date
Cavity 2 power dividers	SUWNON	16230009	12100581210184800	/	/
Wideband Radio Communication Tester	R&S	CMW500	137557	Jan. 21, 2025	Jan. 20, 2026
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
Power detector box	MWRFtest	MW100-RFCB	MW210531TCT	Jan.21, 2025	Jan. 20, 2026

6.3. 99% Occupied Bandwidth and 26dB Bandwidth Measurement

6.3.1. Test Specification

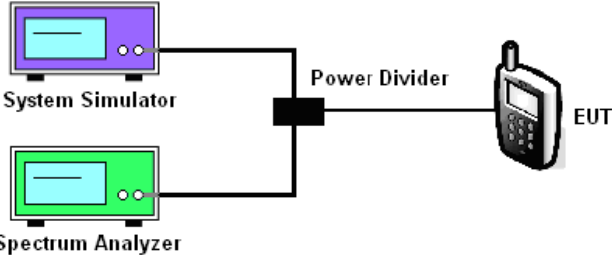
Test Requirement:	Refer to section 2
Test Method:	FCC part 2.1049
Limit:	N/A
Test Setup:	 The diagram illustrates the test setup. A System Simulator (represented by a purple box) and a Spectrum Analyzer (represented by a green box) are connected to a central Power Divider (represented by a black box). 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 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 and attenuator. 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

6.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Date of Cal.	Due Date
Cavity 2 power dividers	SUWNON	16230009	12100581210184800	/	/
Wideband Radio Communication Tester	R&S	CMW500	137557	Jan. 21, 2025	Jan. 20, 2026
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
Power detector box	MWRFTest	MW100-RFCB	MW210531TCT	Jan.21, 2025	Jan. 20, 2026

6.4. Band Edge and Conducted Spurious Emission Measurement

6.4.1. Test Specification

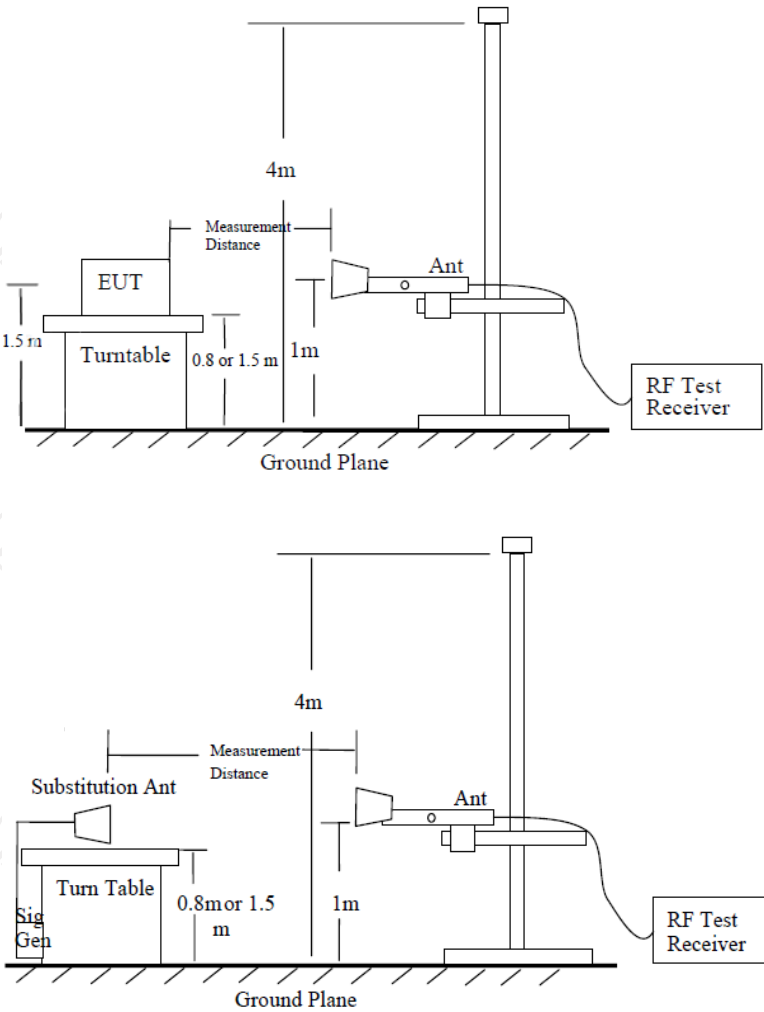
Test Requirement:	Refer to section 2
Test Method:	FCC part2.1051
Limit:	-13dbm
Test Setup:	 The diagram shows a test setup where a System Simulator and a Spectrum Analyzer are connected to a Power Divider. The Power Divider is also connected to the EUT (Equipment Under Test).
Test Procedure:	1. The testing 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 and attenuator. 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 $P(\text{Watts}) = P(\text{W}) - [43 + 10\log(P)] (\text{dB}) = [30 + 10\log(P)] (\text{dBm}) - [43 + 10\log(P)] (\text{dB}) = -13\text{dBm}$. For Band 17, the limit line is derived from $55 + 10\log(P)$ dB below the transmitter power
Test Result:	PASS

6.4.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Date of Cal.	Due Date
Cavity 2 power dividers	SUWNON	16230009	12100581210184800	/	/
Wideband Radio Communication Tester	R&S	CMW500	137557	Jan. 21, 2025	Jan. 20, 2026
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 27, 2024	Jun. 26, 2025
Power detector box	MWRFTest	MW100-RFCB	MW210531TCT	Jan.21, 2025	Jan. 20, 2026

6.5. Field Strength of Spurious Radiation Measurement

6.5.1. Test Specification

Test Requirement:	Refer to section 2
Test Method:	FCC part 2.1053
Limit:	For Band 2, 4, 5, 17: -13dBm For Band 7: -25dBm
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.

6.5.2. Test Instruments

Radiated Emission Test Site (966)					
Name of Equipment	Manufacturer	Model	Serial Number	Date of Cal.	Due Date
Wideband Radio Communication Tester	R&S	CMW500	137557	Jan. 21, 2025	Jan. 20, 2026
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 27, 2024	Jun. 26, 2025
Signal Generator	Agilent	N5173B	MY58108823	Jan. 21, 2025	Jan. 20, 2026
Broadband Antenna	Schwarzbeck	VULB9163	340	Jun. 29, 2024	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jun. 29, 2024	Jun. 28, 2025
Broadband Antenna	Schwarzbeck	VULB9163	412	Jun. 29, 2024	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9120D	1201	Jun. 29, 2024	Jun. 28, 2025
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Jan. 23, 2025	Jan. 22, 2026
Coaxial cable	SKET	RE-03-D	/	Jun. 27, 2024	Jun. 26, 2025
Coaxial cable	SKET	RE-03-M	/	Jun. 27, 2024	Jun. 26, 2025
Coaxial cable	SKET	RE-03-L	/	Jun. 27, 2024	Jun. 26, 2025
Coaxial cable	SKET	RE-04-D	/	Jun. 27, 2024	Jun. 26, 2025
Coaxial cable	SKET	RE-04-M	/	Jun. 27, 2024	Jun. 26, 2025
Coaxial cable	SKET	RE-04-L	/	Jun. 27, 2024	Jun. 26, 2025
Antenna Mast	Keleto	RE-AM	/	/	/
EMI Test Software	EZ_EMG	FA-03A2 RE+	1.1.4.2	/	/

6.5.3. 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, 20MHz)	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	-42.31	1.05	-41.26	-13.00	PASS
5580.00	V	-47.28	6.98	-40.30		
7440.00	V	-63.21	10.40	-52.81		
3720.00	Horizontal	-39.73	2.08	-37.65		
5580.00	H	-46.20	7.46	-38.74		
7440.00	H	-59.35	10.00	-49.35		

Band	Band 2(QPSK, 20MHz)	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	-41.36	1.32	-40.04	-13.00	PASS
5640.00	V	-51.40	7.21	-44.19		
7520.00	V	-60.31	10.43	-49.88		
3760.00	Horizontal	-40.72	2.48	-38.24		
5640.00	H	-46.65	7.63	-39.02		
7520.00	H	-60.18	10.03	-50.15		

Band	Band 2(QPSK, 20MHz)	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	-43.13	1.59	-41.54	-13.00	PASS
5700.00	V	-52.71	7.43	-45.28		
7600.00	V	-59.95	10.53	-49.42		
3800.00	Horizontal	-38.82	2.88	-35.94		
5700.00	H	-47.78	7.81	-39.97		
7600.00	H	-62.09	10.23	-51.86		

Band	Band 2(16QAM, 20MHz)	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	-41.21	1.05	-40.16	-13.00	PASS
5580.00	V	-47.94	6.98	-40.96		
7440.00	V	-61.81	10.40	-51.41		
3720.00	Horizontal	-38.92	2.08	-36.84		
5580.00	H	-46.54	7.46	-39.08		
7440.00	H	-57.25	10.00	-47.25		

Band	Band 2(16QAM, 20MHz)	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	-42.48	1.32	-41.16	-13.00	PASS
5640.00	V	-52.03	7.21	-44.82		
7520.00	V	-59.94	10.43	-49.51		
3760.00	Horizontal	-40.06	2.48	-37.58		
5640.00	H	-46.94	7.63	-39.31		
7520.00	H	-61.38	10.03	-51.35		

Band	Band 2(16QAM, 20MHz)	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	-42.30	1.59	-40.71	-13.00	PASS
5700.00	V	-54.13	7.43	-46.70		
7600.00	V	-61.02	10.53	-50.49		
3800.00	Horizontal	-38.58	2.88	-35.70		
5700.00	H	-48.31	7.81	-40.50		
7600.00	H	-59.35	10.23	-49.12		

Band	Band 4(QPSK, 20MHz)	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	-42.00	-0.48	-42.48	-13.00	PASS
5160.00	V	-45.66	6.15	-39.51		
6880.00	V	-61.54	9.78	-51.76		
3440.00	Horizontal	-40.08	-0.11	-40.19		
5160.00	H	-46.29	6.59	-39.70		
6880.00	H	-57.92	9.70	-48.22		

Band	Band 4(QPSK, 20MHz)	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	-41.13	-0.46	-41.59	-13.00	PASS
5197.50	V	-51.56	6.21	-45.35		
6930.00	V	-61.50	9.99	-51.51		
3465.00	Horizontal	-38.39	-0.11	-38.50		
5197.50	H	-47.07	6.66	-40.41		
6930.00	H	-61.32	9.88	-51.44		

Band	Band 4(QPSK, 20MHz)	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	-42.61	-0.45	-43.06	-13.00	PASS
5235.00	V	-53.05	6.27	-46.78		
6980.00	V	-58.48	10.21	-48.27		
3490.00	Horizontal	-38.62	-0.11	-38.73		
5235.00	H	-48.49	6.73	-41.76		
6980.00	H	-62.27	10.07	-52.20		

Band	Band 4(16QAM, 20MHz)	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	-43.16	-0.48	-43.64	-13.00	PASS
5160.00	V	-48.11	6.15	-41.96		
6880.00	V	-61.44	9.78	-51.66		
3440.00	Horizontal	-40.40	-0.11	-40.51		
5160.00	H	-46.67	6.59	-40.08		
6880.00	H	-59.73	9.70	-50.03		

Band	Band 4(16QAM, 20MHz)	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	-41.61	-0.46	-42.07	-13.00	PASS
5197.50	V	-53.39	6.21	-47.18		
6930.00	V	-60.43	9.99	-50.44		
3465.00	Horizontal	-39.96	-0.11	-40.07		
5197.50	H	-48.80	6.66	-42.14		
6930.00	H	-61.25	9.88	-51.37		

Band	Band 4(16QAM, 20MHz)	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	-44.26	-0.45	-44.71	-13.00	PASS
5235.00	V	-51.31	6.27	-45.04		
6980.00	V	-61.39	10.21	-51.18		
3490.00	Horizontal	-40.30	-0.11	-40.41		
5235.00	H	-49.66	6.73	-42.93		
6980.00	H	-62.21	10.07	-52.14		

Band	Band 5(QPSK, 10MHz)	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	-42.32	-6.46	-48.78	-13.00	PASS
2487.00	V	-47.04	-2.84	-49.88		
3316.00	V	-61.46	-0.48	-61.94		
1658.00	Horizontal	-41.52	-6.30	-47.82		
2487.00	H	-42.80	-2.95	-45.75		
3316.00	H	-59.51	-0.10	-59.61		

Band	Band 5(QPSK, 10MHz)	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	-41.11	-6.46	-47.57	-13.00	PASS
2509.50	V	-52.88	-2.75	-55.63		
3346.00	V	-59.63	-0.47	-60.10		
1673.00	Horizontal	-39.87	-6.32	-46.19		
2509.50	H	-46.16	-2.86	-49.02		
3346.00	H	-60.27	-0.10	-60.37		

Band	Band 5(QPSK, 10MHz)	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	-44.78	-6.45	-51.23	-13.00	PASS
2532.00	V	-54.06	-2.65	-56.71		
3376.00	V	-64.76	-0.47	-65.23		
1688.00	Horizontal	-39.68	-6.34	-46.02		
2532.00	H	-49.20	-2.74	-51.94		
3376.00	H	-64.68	-0.10	-64.78		

Band	Band 5(16QAM, 10MHz)	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	-40.24	-6.46	-46.70	-13.00	PASS
2487.00	V	-45.99	-2.84	-48.83		
3316.00	V	-61.10	-0.48	-61.58		
1658.00	Horizontal	-39.84	-6.30	-46.14		
2487.00	H	-46.71	-2.95	-49.66		
3316.00	H	-60.26	-0.10	-60.36		

Band	Band 5(16QAM, 10MHz)	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	-41.24	-6.46	-47.70	-13.00	PASS
2509.50	V	-53.06	-2.75	-55.81		
3346.00	V	-60.36	-0.47	-60.83		
1673.00	Horizontal	-37.72	-6.32	-44.04		
2509.50	H	-47.44	-2.86	-50.30		
3346.00	H	-60.58	-0.10	-60.68		

Band	Band 5(16QAM, 10MHz)	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	-44.04	-6.45	-50.49	-13.00	PASS
2532.00	V	-52.98	-2.65	-55.63		
3376.00	V	-61.18	-0.47	-61.65		
1688.00	Horizontal	-40.24	-6.34	-46.58		
2532.00	H	-49.79	-2.74	-52.53		
3376.00	H	-63.53	-0.10	-63.63		

Band	Band 7(QPSK, 20MHz)				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)		
5020.00	Vertical	-44.11	5.93	-38.18	-25.00	PASS
7530.00	V	-46.56	10.45	-36.11		
10040.00	V	-62.24	14.82	-47.42		
5020.00	Horizontal	-41.59	6.33	-35.26		
7530.00	H	-44.38	10.06	-34.32		
10040.00	H	-58.52	14.48	-44.04		
Band	Band 7(QPSK, 20MHz)				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)		
5070.00	Vertical	-39.92	6.01	-33.91	-25.00	PASS
7605.00	V	-52.05	10.54	-41.51		
10140.00	V	-61.41	14.88	-46.53		
5070.00	Horizontal	-38.16	6.42	-31.74		
7605.00	H	-46.43	10.24	-36.19		
10140.00	H	-60.21	14.65	-45.56		
Band	Band 7(QPSK, 20MHz)				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)		
5120.00	Vertical	-43.62	6.09	-37.53	-25.00	PASS
7680.00	V	-52.79	10.63	-42.16		
10240.00	V	-66.59	14.95	-51.64		
5120.00	Horizontal	-40.24	6.52	-33.72		
7680.00	H	-49.10	10.43	-38.67		
10240.00	H	-63.81	14.82	-48.99		

Band	Band 7(16QAM, 20MHz)	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)		
5020.00	Vertical	-41.40	5.93	-35.47	-25.00	PASS
7530.00	V	-45.55	10.45	-35.10		
10040.00	V	-63.38	14.82	-48.56		
5020.00	Horizontal	-41.74	6.33	-35.41		
7530.00	H	-45.78	10.06	-35.72		
10040.00	H	-59.61	14.48	-45.13		

Band	Band 7(16QAM, 20MHz)	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)		
5070.00	Vertical	-40.93	6.01	-34.92	-25.00	PASS
7605.00	V	-52.28	10.54	-41.74		
10140.00	V	-62.04	14.88	-47.16		
5070.00	Horizontal	-38.36	6.42	-31.94		
7605.00	H	-47.90	10.24	-37.66		
10140.00	H	-60.26	14.65	-45.61		

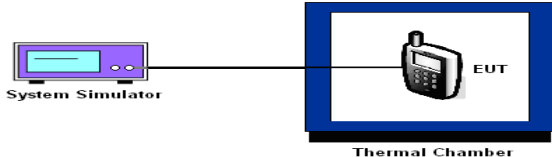
Band	Band 7(16QAM, 20MHz)	Test channel:	Highest
Test mode:		Temperature :	25°C
		Relative Humidity:	56%

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)		
5120.00	Vertical	-43.94	6.09	-37.85	-25.00	PASS
7680.00	V	-51.90	10.63	-41.27		
10240.00	V	-60.52	14.95	-45.57		
5120.00	Horizontal	-39.16	6.52	-32.64		
7680.00	H	-48.47	10.43	-38.04		
10240.00	H	-61.03	14.82	-46.21		

6.6. Frequency Stability Measurement

6.6.1. 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 to an 'EUT' (Equipment Under Test) which is housed within a 'Thermal Chamber'.
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, 5M is for LTE Band 7 for 5M is for LTE Band 17
Test Result:	PASS

6.6.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Date of Cal.	Due Date
Wideband Radio Communication Tester	R&S	CMW500	137557	Jan. 21, 2025	Jan. 20, 2026
Programable tempratuce and humidity chamber	JQ	JQ-2000	/	Jun. 27, 2024	Jun. 26, 2025
DC power supply	Kingrang	KR3005K	/	Jun. 27, 2024	Jun. 26, 2025
Combiner Box	AT890-RFB	Ascentest	/	/	/

Appendix B: Photographs of Test Setup

Please refer to document Appendix No.: TCT250407E032-A

Appendix C: Photographs of EUT

Please refer to document Appendix No.: TCT250407E032-B & TCT250407E032-C

Test Data for Appendix Refer to Appendix For LTE Band 2, Appendix For LTE Band 4, Appendix For LTE Band 5 and Appendix For LTE Band 7

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