

TEST REPORT

FCC ID..... :	2AQRM-A67W	
Test Report No..... :	TCT241011E033	
Date of issue..... :	Nov. 20, 2024	
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..... :	FOXX Development Inc.	
Address..... :	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA	
Manufacturer's name ... :	FOXX Development Inc.	
Address..... :	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA	
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..... :	Smart Phone	
Trade Mark	FOXXD, FOXX, MIRO	
Model/Type reference..... :	A67W	
Rating(s)..... :	Power supply: DC 5V from adaptor or DC 3.85V from battery Power Adapter: Model: A67W Input: AC 100-240V, 50/60Hz, 0.30A Output: DC 5.0V, 2.0A, 10W	
Date of receipt of test item	Oct. 11, 2024	
Date (s) of performance of test..... :	Oct. 12, 2024 ~ Nov. 15, 2024	
Tested by (+signature) ... :	Brews XU	
Check by (+signature).... :	Beryl ZHAO	
Approved by (+signature):	Tomsin	

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1. General Product Information

1.1. EUT description

Product Name.....:	Smart Phone
Model/Type reference.....:	A67W
Sample Number.....:	TCT241011E029-0101
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 17: 704 MHz ~ 716 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 665.5 MHz ~ 695.5 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 17: 734 MHz ~ 746 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 66: 2110 MHz ~ 2180 MHz LTE Band 71: 706.5 MHz ~ 713.5 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 12: 1.4MHz /3MHz /5MHz /10MHz LTE Band 17: 5MHz /10MHz LTE Band 41: 5MHz /10MHz /15MHz /20MHz LTE Band 66: 1.4MHz /3MHz /5MHz /10MHz /15MHz /20MHz LTE Band 71: 5MHz /10MHz /15MHz /20MHz
Maximum Output Power to Antenna.....:	LTE Band 2: 20.64dBm LTE Band 4: 24.27dBm LTE Band 5: 20.37dBm LTE Band 12: 13.58dBm LTE Band 17: 14.00dBm LTE Band 41: 22.72dBm LTE Band 66: 24.67dBm LTE Band 71: 18.32dBm
Type of Modulation.....:	QPSK/16QAM
Antenna Type.....:	PIFA Antenna
Antenna Gain.....:	LTE Band 2: -1.105dBi LTE Band 4: -0.17dBi LTE Band 5: -0.31dBi LTE Band 12: -2.54dBi LTE Band 17: -2.54dBi LTE Band 41: 1.52dBi

	LTE Band 66: 0.40dBi LTE Band 71: -1.51dBi
Rating(s).....:	Power supply: DC 5V from adaptor or DC 3.85V from battery Power Adapter: Model: A67W Input: AC 100-240V, 50/60Hz, 0.30A Output: DC 5.0V, 2.0A, 10W

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	1M11G7D	0.1476	1M11W7D	0.1297
3	2M77G7D	0.1449	2M77W7D	0.1247
5	4M56G7D	0.1306	4M57W7D	0.1306
10	9M12G7D	0.1472	9M08W7D	0.1365
15	13M7G7D	0.1493	13M7W7D	0.1346
20	18M2G7D	0.1291	18M2W7D	0.200

LTE Band 4	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
1.4	1M12G7D	0.2624	1M12W7D	0.2421
3	2M78G7D	0.2553	2M77W7D	0.2673
5	4M58G7D	0.2506	4M57W7D	0.2249
10	9M09G7D	0.2582	9M08W7D	0.2512
15	13M6G7D	0.2559	13M6W7D	0.114
20	18M2G7D	0.2582	18M2W7D	0.124

LTE Band 5	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)
1.4	1M12G7D	0.1089	1M12W7D	0.0957
3	2M77G7D	0.1042	2M77W7D	0.1042
5	4M56G7D	0.0818	4M61W7D	0.0787
10	9M08G7	0.0748	9M08W7D	0.0789

LTE Band 12	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)
1.4	1M12G7D	0.0195	1M11W7D	0.0201
3	2M77G7D	0.0218	2M75W7D	0.021
5	4M55G7D	0.0228	4M58W7D	0.0216
10	9M06G7D	0.0218	9M07W7D	0.0199

LTE Band 17	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)
5	4M55G7D	0.0226	4M56W7D	0.0239
10	9M10G7D	0.0236	9M09W7D	0.0251

LTE Band 41	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
5	4M56G7D	0.1687	4M59W7D	0.1871
10	9M11G7D	0.1656	9M11W7D	0.1718
15	13M6G7D	0.1667	13M6W7D	0.1738
20	18M2G7D	0.1722	18M2W7D	0.1837

LTE Band 66	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
1.4	1M13G7D	0.2518	1M14W7D	0.2432
3	2M78G7D	0.2612	2M81W7D	0.26
5	4M59G7D	0.2624	4M62W7D	0.2553
10	9M11G7D	0.2818	9M16W7D	0.271
15	13M7G7D	0.2799	13M8W7D	0.2799
20	18M3G7D	0.2931	18M4W7D	0.2877

LTE Band 71	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
5	4M58G7D	0.0671	4M58W7D	0.0679
10	9M10G7D	0.0603	9M09W7D	0.0513
15	13M6G7D	0.0587	13M6W7D	0.0499
20	18M2G7D	0.0493	18M2W7D	0.0636

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 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)		LTE Band 12(10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
23035	701.5	23060	704
23095	707.5	23095	707.5
23155	713.5	23130	711

LTE Band 17(5MHz)		LTE Band 17(10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
23755	706.5	23780	709
23790	710	23790	710
23825	713.5	23800	711

LTE Band 41(5MHz)		LTE Band 41(10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
39675	2498.5	39700	2501
40620	2593	40620	2593
41565	2687.5	41540	2685
LTE Band 41(15MHz)		LTE Band 41(20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
39725	2503.5	39750	2506
40620	2593	40620	2593
41515	2682.5	41490	2680

LTE Band 66(1.4MHz)		LTE Band 66(3MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
131979	1710.7	131987	1711.5
132322	1745	132322	1745
132665	1779.3	132657	1778.5
LTE Band 66(5MHz)		LTE Band 66(10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
131997	1712.5	132022	1715
132322	1745	132322	1745
132647	1777.5	132622	1775
LTE Band 66(15MHz)		LTE Band 66(20MHz)	
132047	1717.5	132072	1720
132322	1745	132322	1745
132597	1772.5	132572	1770

LTE Band 71(5MHz)		LTE Band 71(10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
133147	665.5	133172	668
133297	680.5	133297	680.5
133447	695.5	133422	693
LTE Band 71(15MHz)		LTE Band 71(20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
133197	670.5	133222	673
133297	680.5	133322	683
133397	690.5	133372	688

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 / 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 12	QPSK Link (1.4MHz / 3MHz / 5MHz / 10MHz)	16QAM Link (1.4MHz / 3MHz / 5MHz / 10MHz)
LTE Band 17	QPSK Link (5MHz / 10MHz)	16QAM Link (5MHz / 10MHz)
LTE Band 41	QPSK Link (5MHz / 10MHz / 15MHz / 20MHz)	16QAM Link (5MHz / 10MHz / 15MHz / 20MHz)
LTE Band 66	QPSK Link (1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz)	16QAM Link (1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz)
LTE Band 71	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
	12	v	v	v	v	-	-	v	v	v	v	v	v	v	v
	17	-	-	v	v	-	-	v	v	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v
	66	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	71	-	-	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
	12	v	v	v	v	-	-	v	v	v	-	v	v	v	v
	17	-	-	v	v	-	-	v	v	v	-	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	-	v	v	v	v
	66	v	v	v	v	v	v	v	v	v	-	v	v	v	v
	71	-	-	v	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
	12	v	v	v	v	-	-	v	v	-	-	v	v	v	v
	17	-	-	v	v	-	-	v	v	-	-	v	v	v	v
	41	-	-	v	v	v	v	v	v	-	-	v	v	v	v
	66	v	v	v	v	v	v	v	v	-	-	v	v	v	v
	71	-	-	v	v	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
	12	v	v	v	v	-	-	v	v	-	-	v	v	-	v
	17	-	-	v	v	-	-	v	v	-	-	v	v	-	v
	41	-	-	v	v	v	v	v	v	-	-	v	v	-	v
	71	-	-	v	v	v	v	v	v	-	-	v	v	-	v

	66	v	v	v	v	v	v	v	v	-	-	v	v	-	v
	71	-	-	v	v	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	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
	17	-	-	v	v	-	-	v	v	v	-	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	-	v	v	v	v
	66	v	v	v	v	v	v	v	v	v	-	v	v	v	v
	71	-	-	v	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
	12	v	-	-	-	-	-	v	v	-	-	v	v	v	v
	17	-	-	v	-	-	-	v	v	-	-	v	v	v	v
	41	-	-	v	-	-	-	v	v	-	-	v	v	v	v
	66	v	-	-	-	-	-	v	v	-	-	v	v	v	v
	71	-	-	v	v	v	v	v	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
	17	-	-	v	v	-	-	v	v	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v
	66	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	71	-	-	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
	12	-	-	-	v	-	-	v	v	v	-	v	v	v	v
	17	-	-	-	v	-	-	v	v	v	-	v	v	v	v
	41	-	-	-	-	-	v	v	v	v	-	v	v	v	v
	66	-	-	-	-	-	v	v	v	v	-	v	v	v	v
	71	-	-	-	-	-	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

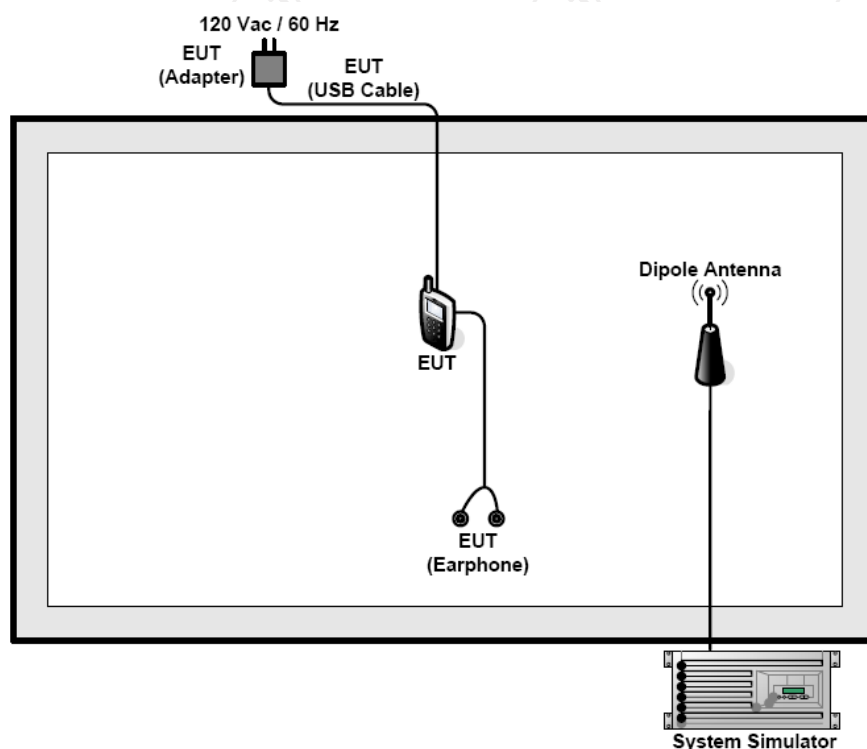
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

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.

- 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

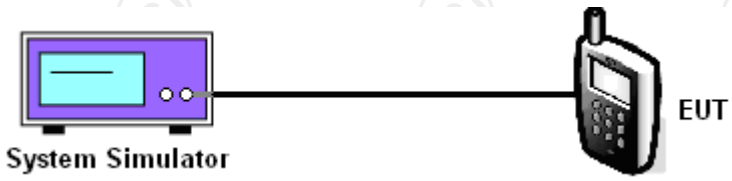
The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	± 3.10 dB
2	RF power, conducted	± 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

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 17: 3W LTE Band 41: 2W LTE Band 66: 1W LTE Band 71: 3W
Test Setup:	 The diagram illustrates the test setup. On the left 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 simulator to a mobile phone on the right. The mobile phone is labeled 'EUT' (Equipment Under Test).
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

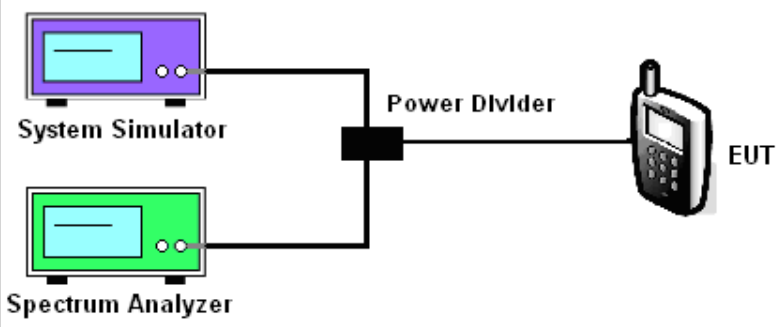
	dBi (EIRP); L_c = signal attenuation in the connecting cable between the transmitter and antenna, in dB. <i>Note: For personal/portable radios utilizing an integral antenna, the factor L_c is typically negligible. However, in a fixed station transmit system that utilizes a long cable run between the transmitter and the transmitting antenna, this factor can be significant.</i>
Test Result:	PASS

5.1.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Wideband Radio Communication Tester	R&S	CMW500	165017	Jan. 31, 2025

5.2. Peak to Average Ratio

5.2.1. Test Specification

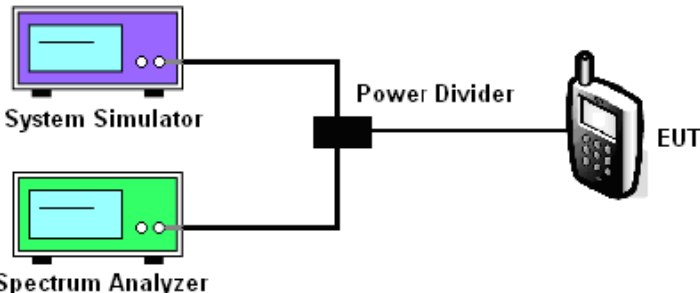
Test Requirement:	Refer to section 2
Test Method:	FCC KDB 971168 D01v03
Limit:	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.
Test Setup:	 The diagram illustrates the test setup. A System Simulator (represented by a purple monitor icon) and a Spectrum Analyzer (represented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

5.2.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Wideband Radio Communication Tester	R&S	CMW500	165017	Jan. 31, 2025
Spectrum Analyzer	Agilent	N9020A	MY50101018	Jun. 26, 2025

5.3. 99% Occupied Bandwidth and 26dB Bandwidth Measurement

5.3.1. Test Specification

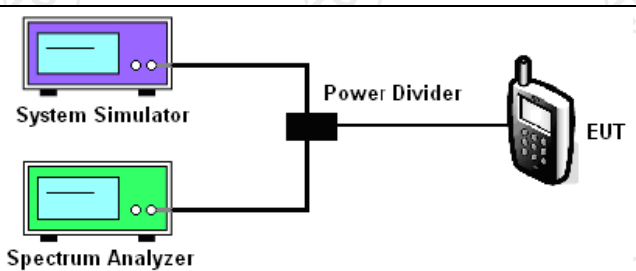
Test Requirement:	Refer to section 2
Test Method:	FCC part 2.1049
Limit:	N/A
Test Setup:	 The diagram shows a System Simulator (top) and a Spectrum Analyzer (bottom) connected to a central Power Divider. The Power Divider is then connected to the EUT (Equipment Under Test) on the right.
Test Procedure:	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 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

5.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Wideband Radio Communication Tester	R&S	CMW500	165017	Jan. 31, 2025
Spectrum Analyzer	Agilent	N9020A	MY50101018	Jun. 26, 2025

5.4. Band Edge and Conducted Spurious Emission Measurement

5.4.1. Test Specification

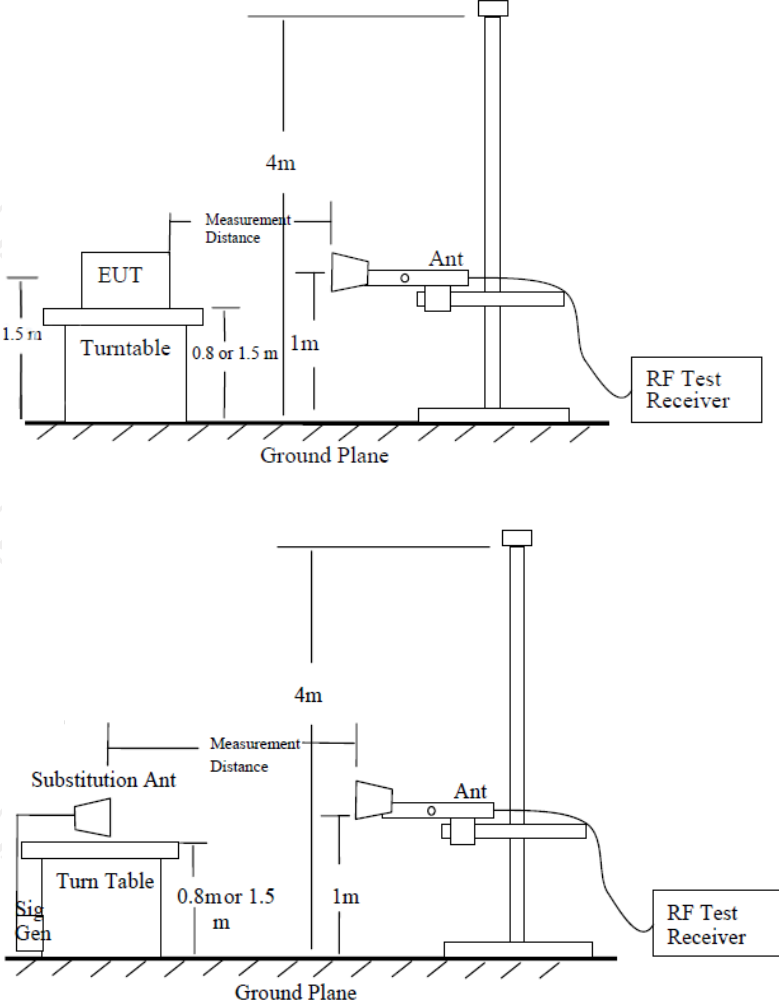
Test Requirement:	Refer to section 2
Test Method:	FCC part2.1051
Limit:	-13dbm Band 41: -10dBm/-13dbm/-25dbm
Test Setup:	 The diagram shows a System Simulator (purple box) and a Spectrum Analyzer (green box) connected to a Power Divider (black box). The Power Divider is also connected to the EUT (mobile phone icon). The Spectrum Analyzer is connected to the Power Divider via a cable.
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 $P(\text{Watts}) = P(W) - [43 + 10\log(P)] \text{ (dB)} = [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} = -13\text{dBm}.$ 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
Wideband Radio Communication Tester	R&S	CMW500	165017	Jan. 31, 2025
Spectrum Analyzer	Agilent	N9020A	MY50101018	Jun. 26, 2025

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, 17, 66, 71: -13dBm For Band 41: -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 $43 + 10\log(P)$ dB below the transmitter power P(Watts) $= P(W) - [43 + 10\log(P)]\ (dB)$ $= [30 + 10\log(P)]\ (dBm) - [43 + 10\log(P)]\ (dB)$ $= -13dBm.$
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. 31, 2025
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 26, 2025
Signal Generator	Agilent	N5173B	MY58108823	Jan. 31, 2025
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	Feb. 02, 2025
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 EMC	FA-03A2 RE+	1.1.4.2	/

5.5.3. Test Data

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dB μ V/m)	Limit@3m (dB μ V/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	-44.98	1.05	-43.93	-13.00	PASS
5580.00	V	-49.97	6.98	-42.99		
7440.00	V	-60.33	10.4	-49.93		
3720.00	Horizontal	-42.85	2.08	-40.77		
5580.00	H	-49.32	7.46	-41.86		
7440.00	H	-59.26	10.00	-49.26		

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	-44.88	1.32	-43.56	-13.00	PASS
5640.00	V	-54.42	7.21	-47.21		
7520.00	V	-62.71	10.43	-52.28		
3760.00	Horizontal	-43.93	2.48	-41.45		
5640.00	H	-49.96	7.63	-42.33		
7520.00	H	-63.96	10.03	-53.93		

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	-46.37	1.59	-44.78	-13.00	PASS
5700.00	V	-55.39	7.43	-47.96		
7600.00	V	-61.63	10.53	-51.10		
3800.00	Horizontal	-41.74	2.88	-38.86		
5700.00	H	-51.37	7.81	-43.56		
7600.00	H	-62.43	10.23	-52.20		

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	-45.11	-0.48	-45.59	-13.00	PASS
5160.00	V	-48.85	6.15	-42.70		
6880.00	V	-61.96	9.78	-52.18		
3440.00	Horizontal	-42.68	-0.11	-42.79		
5160.00	H	-49.04	6.59	-42.45		
6880.00	H	-61.50	9.70	-51.80		

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	-44.40	-0.46	-44.86	-13.00	PASS
5197.50	V	-54.59	6.21	-48.38		
6930.00	V	-63.87	9.99	-53.88		
3465.00	Horizontal	-41.20	-0.11	-41.31		
5197.50	H	-50.01	6.66	-43.35		
6930.00	H	-62.27	9.88	-52.39		

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	-45.60	-0.45	-46.05	-13.00	PASS
5235.00	V	-55.54	6.27	-49.27		
6980.00	V	-61.86	10.21	-51.65		
3490.00	Horizontal	-42.11	-0.11	-42.22		
5235.00	H	-51.98	6.73	-45.25		
6980.00	H	-60.70	10.07	-50.63		

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	-45.86	-6.46	-52.32	-13.00	PASS
2487.00	V	-49.93	-2.84	-52.77		
3316.00	V	-60.86	-0.48	-61.34		
1658.00	Horizontal	-44.61	-6.30	-50.91		
2487.00	H	-45.86	-2.95	-48.81		
3316.00	H	-61.59	-0.10	-61.69		

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	-43.69	-6.46	-50.15	-13.00	PASS
2509.50	V	-56.03	-2.75	-58.78		
3346.00	V	-62.44	-0.47	-62.91		
1673.00	Horizontal	-42.80	-6.32	-49.12		
2509.50	H	-48.63	-2.86	-51.49		
3346.00	H	-60.26	-0.10	-60.36		

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	-47.90	-6.45	-54.35	-13.00	PASS
2532.00	V	-56.72	-2.65	-59.37		
3376.00	V	-62.96	-0.47	-63.43		
1688.00	Horizontal	-42.66	-6.34	-49.00		
2532.00	H	-52.16	-2.74	-54.90		
3376.00	H	-63.02	-0.10	-63.12		

Band	Band 12(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)		
1408.00	Vertical	-44.95	-5.37	-50.32	-13.00	PASS
2112.00	V	-51.16	-4.21	-55.37		
2816.00	V	-64.03	-1.36	-65.39		
1408.00	Horizontal	-45.67	-5.24	-50.91		
2112.00	H	-47.44	-3.97	-51.41		
2816.00	H	-62.89	-1.12	-64.01		

Band	Band 12(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)		
1415.00	Vertical	-44.89	-5.41	-50.30	-13.00	PASS
2122.50	V	-55.43	-4.17	-59.60		
2830.00	V	-63.98	-1.30	-65.28		
1415.00	Horizontal	-41.92	-5.28	-47.20		
2122.50	H	-48.30	-3.94	-52.24		
2830.00	H	-61.74	-1.04	-62.78		

Band	Band 12(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)		
1422.00	Vertical	-47.62	-5.45	-53.07	-13.00	PASS
2133.00	V	-56.79	-4.13	-60.92		
2844.00	V	-67.75	-1.24	-68.99		
1422.00	Horizontal	-42.28	-5.31	-47.59		
2133.00	H	-51.40	-3.92	-55.32		
2844.00	H	-61.69	-0.96	-62.65		

Band	Band 17(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)		
1418.00	Vertical	-45.37	-5.43	-50.80	-13.00	PASS
2127.00	V	-48.92	-4.16	-53.08		
2836.00	V	-66.16	-1.27	-67.43		
1418.00	Horizontal	-45.61	-5.29	-50.90		
2127.00	H	-48.35	-3.93	-52.28		
2836.00	H	-62.78	-1.01	-63.79		

Band	Band 17(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)		
1420.00	Vertical	-43.54	-5.44	-48.98	-13.00	PASS
2130.00	V	-55.50	-4.14	-59.64		
2840.00	V	-62.99	-1.25	-64.24		
1420.00	Horizontal	-40.96	-5.30	-46.26		
2130.00	H	-49.99	-3.92	-53.91		
2840.00	H	-64.33	-0.99	-65.32		

Band	Band 17(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)		
1422.00	Vertical	-55.31	-5.45	-60.76	-13.00	PASS
2133.00	V	-64.22	-4.13	-68.35		
2844.00	V	-49.63	-1.24	-50.87		
1422.00	Horizontal	-51.13	-5.31	-56.44		
2133.00	H	-61.69	-3.92	-65.61		
2844.00	H	-56.64	-0.96	-57.60		

Band	Band 41(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)		
5012.00	Vertical	-45.73	5.92	-39.81	-25.00	PASS
7518.00	V	-51.70	10.43	-41.27		
10024.00	V	-66.11	14.81	-51.30		
5012.00	Horizontal	-46.24	6.31	-39.93		
7518.00	H	-52.26	10.03	-42.23		
10024.00	H	-64.71	14.45	-50.26		

Band	Band 41(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)		
5186.00	Vertical	-46.94	6.19	-40.75	-25.00	PASS
7779.00	V	-55.78	10.74	-45.04		
10372.00	V	-66.42	15.04	-51.38		
5186.00	Horizontal	-47.27	6.64	-40.63		
7779.00	H	-48.78	10.68	-38.10		
10372.00	H	-64.22	15.04	-49.18		

Band	Band 41(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)		
5360.00	Vertical	-47.74	6.46	-41.28	-25.00	PASS
8040.00	V	-57.20	11.15	-46.05		
10720.00	V	-68.63	15.28	-53.35		
5360.00	Horizontal	-52.27	6.97	-45.30		
8040.00	H	-55.26	11.37	-43.89		
10720.00	H	-68.19	15.63	-52.56		

Band	Band 66(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	-46.13	-0.46	-46.59	-13.00	PASS
5160.00	V	-50.26	6.15	-44.11		
6880.00	V	-65.58	9.78	-55.80		
3440.00	Horizontal	-45.72	-0.11	-45.83		
5160.00	H	-49.45	6.59	-42.86		
6880.00	H	-61.23	9.70	-51.53		

Band	Band 66(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)		
3490.00	Vertical	-42.80	-0.45	-43.25	-13.00	PASS
5235.00	V	-54.66	6.27	-48.39		
6980.00	V	-63.43	10.21	-53.22		
3490.00	Horizontal	-40.67	-0.11	-40.78		
5235.00	H	-49.60	6.73	-42.87		
6980.00	H	-62.87	10.07	-52.80		

Band	Band 66(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)		
3540.00	Vertical	-46.01	-0.18	-46.19	-13.00	PASS
5310.00	V	-55.75	6.38	-49.37		
7080.00	V	-67.37	10.31	-57.06		
3540.00	Horizontal	-41.10	0.29	-40.81		
5310.00	H	-51.21	6.87	-44.34		
7080.00	H	-66.30	10.11	-56.19		

Band	Band 71(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	Vertical	-46.13	-0.46	-46.59	-13	PASS
5160	V	-50.26	6.15	-44.11		
6880	V	-65.58	9.78	-55.80		
3440	Horizontal	-45.72	-0.11	-45.83		
5160	H	-49.45	6.59	-42.86		
6880	H	-61.23	9.70	-51.53		

Band	Band 71(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)		
3490	Vertical	-42.80	-0.45	-43.25	-13	PASS
5235	V	-54.66	6.27	-48.39		
6980	V	-63.43	10.21	-53.22		
3490	Horizontal	-40.67	-0.11	-40.78		
5235	H	-49.60	6.73	-42.87		
6980	H	-62.87	10.07	-52.80		

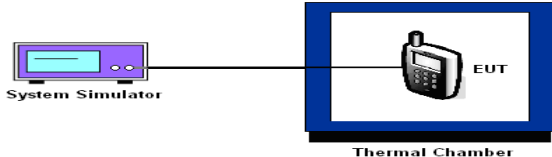
Band	Band 71(QPSK, 20MHz)	Test channel:	Highest
Test mode:		Temperature :	25°C
		Relative Humidity:	56%

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)		
3558.6	Vertical	-46.01	-0.18	-46.19	-13	PASS
5337.9	V	-55.75	6.38	-49.37		
7117.2	V	-67.37	10.31	-57.06		
3558.6	Horizontal	-41.10	0.29	-40.81		
5337.9	H	-51.21	6.87	-44.34		
7117.2	H	-66.30	10.11	-56.19		

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 illustrates the test setup. On the left, a 'System Simulator' is connected by a cable to a 'Thermal Chamber'. Inside the Thermal Chamber, the 'EUT' (Equipment Under Test) is shown.
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 17, 5M is for LTE Band 41, 1.4M is for LTE Band 66, 5M is for LTE Band 71
Test Result:	PASS

5.6.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Wideband Radio Communication Tester	R&S	CMW500	165017	Jan. 31, 2025
Programable tempratuce and humidity chamber	JQ	JQ-2000	/	Jun. 26, 2025
DC power supply	Kingrang	KR3005K	/	Jun. 26, 2025

Appendix A: Test Result of Conducted Test

please refer to appendix document of test date.

Appendix B: Photographs of Test Setup

Please refer to document Appendix No.: TCT241011E029-A

Appendix C: Photographs of EUT

Please refer to document Appendix No.: TCT241011E029-B & TCT241011E029-C

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