

TEST REPORT

FCC ID..... :	2A2AFST202	
Test Report No..... :	TCT210728E029	
Date of issue..... :	Aug. 26, 2021	
Testing laboratory	SHENZHEN TONGCE TESTING LAB	
Testing location/ address:	TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China	
Applicant's name..... :	MGM Wireless Holdings Pty Ltd	
Address..... :	Suite 13, 154 Fullarton Road, Rose Park, 5067 Australia	
Manufacturer's name ... :	Shenzhen Eternity Technology Co., Ltd	
Address..... :	Building A2, YingZhan Industrial Park, LongTian Street, PingShan, 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 FCC CFR Title 47 Part90	
Test item description	SPACETALK ADVENTURER	
Trade Mark	SPACETALK	
Model/Type reference..... :	ST2-4G-2	
Rating(s)	Rechargeable Li-ion Battery DC 3.8V	
Date of receipt of test item	Jul. 28, 2021	
Date (s) of performance of test..... :	See dates for each test case	
Tested by (+signature) ... :	Brews Xu	
Check by (+signature).... :	Beryl Zhao	
Approved by (+signature):	Tomsin	
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Appendix A: Photographs of Test Setup

Appendix B: 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 7,
Appendix For LTE Band 12, Appendix For LTE Band 13,
Appendix For LTE Band 14 and Appendix For LTE Band 17**

1. General Product Information

1.1. EUT description

Test item description	SPACETALK ADVENTURER
Model/Type reference.....	ST2-4G-2
Hardware Version.....	AL_AM08_MB_V11
Software Version	MOLY.LR12A.R2.MP.V166 ST2-4G-2_20210716
Sample Number.....	TCT210728E001-0102
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 LTE Band 12: 699 MHz ~ 716 MHz LTE Band 13: 777 MHz ~ 787 MHz LTE Band 14: 788 MHz ~ 798 MHz LTE Band 17: 704 MHz ~ 716 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 LTE Band 12: 729 MHz ~ 746 MHz LTE Band 13: 746 MHz ~ 756 MHz LTE Band 14: 758 MHz ~ 768 MHz LTE Band 17: 734 MHz ~ 746 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 LTE Band 12: 1.4MHz /3MHz /5MHz /10MHz LTE Band 13: 5MHz /10MHz LTE Band 14: 5MHz /10MHz LTE Band 17: 5MHz /10MHz
Maximum Output Power to Antenna.....	LTE Band 2: 22.08dBm LTE Band 4: 22.83dBm LTE Band 5: 24.84dBm LTE Band 7: 21.29dBm LTE Band 12: 22.90dBm LTE Band 13: 22.79dBm LTE Band 14: 22.84dBm LTE Band 17: 22.82dBm

99% Occupied Bandwidth.....:	LTE Band 2: 18M0G7D LTE Band 4: 18M0G7D LTE Band 5: 9M00G7D LTE Band 7: 18M0G7D LTE Band 12: 9M01G7D LTE Band 13: 9M01G7D LTE Band 14: 8M96G7D LTE Band 17: 8M96G7D
Type of Modulation.....:	QPSK/16QAM
Antenna Type.....:	Internal Antenna
Antenna Gain.....:	LTE Band 2: -8.51dBi LTE Band 4: -7.08dBi LTE Band 5: -7.68dBi LTE Band 7: -3.64dBi LTE Band 12: -9.34dBi LTE Band 13: -8.36dBi LTE Band 14: -8.36dBi LTE Band 17: -9.34dBi
Rating(s)	Rechargeable Li-ion Battery DC 3.8V

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	0.022	1M09W7D	0.017
3	2M69G7D	0.022	2M69W7D	0.017
5	4M51G7D	0.022	4M51W7D	0.017
10	8M98G7D	0.023	8M98W7D	0.017
15	13M5G7D	0.022	13M5W7D	0.018
20	18M0G7D	0.023	18M0W7D	0.018
LTE Band 4	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
1.4	1M09G7D	0.036	1M09W7D	0.029
3	2M70G7D	0.035	2M69W7D	0.027
5	4M50G7D	0.036	4M50W7D	0.028
10	8M98G7D	0.037	8M99W7D	0.028
15	13M5G7D	0.035	13M5W7D	0.028
20	18M0G7D	0.038	18M0W7D	0.030
LTE Band 5	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)
1.4	1M09G7D	0.020	1M09W7D	0.015
3	2M69G7D	0.020	2M75W7D	0.015
5	4M51G7D	0.020	4M50W7D	0.016
10	9M00G7D	0.020	8M99W7D	0.016
LTE Band 7	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
5	4M51G7D	0.056	4M51W7D	0.045
10	9M00G7D	0.058	8M99W7D	0.046
15	13M8G7D	0.056	13M5W7D	0.045
20	18M0G7D	0.057	18M0W7D	0.046

LTE Band 12	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)
1.4	1M09G7D	0.013	1M09W7D	0.010
3	2M70G7D	0.014	2M69W7D	0.010
5	4M51G7D	0.013	4M51W7D	0.011
10	9M01G7D	0.014	9M00W7D	0.011
LTE Band 13	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)
5	4M51G7D	0.017	4M51W7D	0.014
10	9M01G7D	0.017	8M99W7D	0.014
LTE Band 14	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)
5	4M50G7D	0.017	4M50W7D	0.013
10	8M96G7D	0.016	8M95W7D	0.013
LTE Band 17	QPSK		16QAM	
BW(MHz)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)
5	4M51G7D	0.014	4M51W7D	0.011
10	8M96G7D	0.014	8M96W7D	0.011

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

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 13(5MHz)		LTE Band 13(10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
23205	779.5	23230	782
23230	782	23230	782
23255	784.5	23230	782

LTE Band 14(5MHz)		LTE Band 14(10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
23305	790.5	23330	793
23330	793	23330	793
23355	795.5	23330	793

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

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); §90.542(a)	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); §90.542(a)	PASS
Equivalent Isotropic Radiated Power	§2.1046; §22.913; §24.232(c); §27.50(d); §27.50(c); §27.50(b); §90.542(a)	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); §90.543(e)	PASS
Conducted Spurious Emission	§2.1051; §22.917(a); §27.53(h); §27.53(g); §27.53(c); §24.238(a); §90.543(c)	PASS
Field Strength of Spurious Radiation	§2.1053; §22.917(a); §27.53(g); §27.53(c); §27.53(h); §24.238(a); §90.543(c)	PASS
Frequency Stability for Temperature & Voltage	§2.1055; §22.355; §27.54; §24.235; §90.213	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.
5. After pre-testing of two samples with different memory chip, we found that the one with ISOCOM memory chip is the worst case, so the results are recorded in this report.

3. General Information

3.1. Test environment and mode

Operating Environment:

Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Remark: This product has a built-in rechargeable battery, so in an independent test, the EUT battery was fully-charged.	

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)
LTE Band 12	QPSK Link (1.4MHz / 3MHz / 5MHz / 10MHz)	16QAM Link (1.4MHz / 3MHz / 5MHz / 10MHz)
LTE Band 13	QPSK Link (5MHz / 10MHz)	16QAM Link (5MHz / 10MHz)
LTE Band 14	QPSK Link (5MHz / 10MHz)	16QAM Link (5MHz / 10MHz)
LTE Band 17	QPSK Link (5MHz / 10MHz)	16QAM Link (5MHz / 10MHz)

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
	12	v	v	v	v	-	-	v	v	v	v	v	v	v	v
	13	-	-	v	v	-	-	v	v	v	v	v	v	v	v
	14	-	-	v	v	-	-	v	v	v	v	v	v	v	v
	17	-	-	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
	7	-	-	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
	14	-	-	v	v	-	-	v	v	v	v	v	v	v	v
	17	-	-	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
	7	-	-	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
	14	-	-	v	v	-	-	v	v	v	v	v	v	v	v
	17	-	-	v	v	-	-	v	v	v	v	v	v	v	v

Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
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
	7	-	-	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
	14	-	-	V	V	-	-	V	V	V	V	V	V	-	V
	17	-	-	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
	7	-	-	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
	14	-	-	V	V	-	-	V	V	V	-	-	V	V	V
	17	-	-	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
	12	V	-	-	-	-	-	V	V	V	-	-	V	V	V
	13	-	-	V	-	-	-	V	V	V	-	-	V	V	V
	14	-	-	V	-	-	-	V	V	V	-	-	V	V	V
	17	-	-	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
	12	V	V	V	V	-	-	V	V	V	V	V	V	V	V
	13	-	-	V	V	-	-	V	V	V	V	V	V	V	V
	14	-	-	V	V	-	-	V	V	V	V	V	V	V	V
	17	-	-	V	V	-	-	V	V	V	V	V	V	V	V
Radiated	2	V	-	-	-	-	-	V	V	V	-	-	V	V	V

Spurious Emission	4	v	-	-	-	-	-	v	v	v	-	-	v	v	v
	5	v	-	-	-	-	-	v	v	v	-	-	v	v	v
	7	-	-	v	-	-	-	v	v	v	-	-	v	v	v
	12	v	-	-	-	-	-	v	v	v	-	-	v	v	v
	13	-	-	v	-	-	-	v	v	v	-	-	v	v	v
	14	-	-	v	-	-	-	v	v	v	-	-	v	v	v
	17	-	-	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

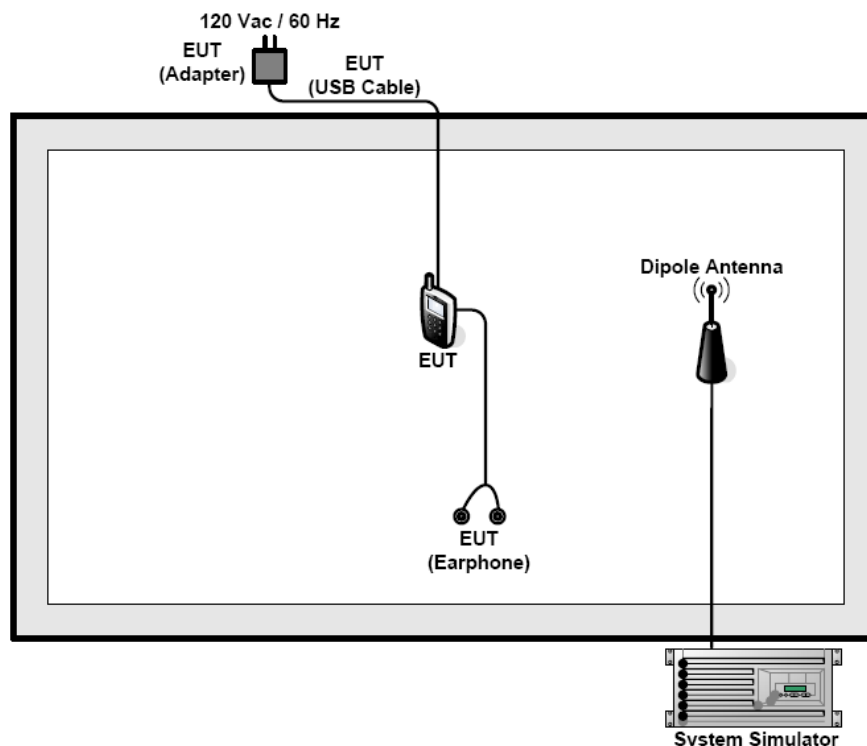
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Adapter	JD-050200	2012010907576735	/	/

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-1

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

4.3. Measurement Uncertainty

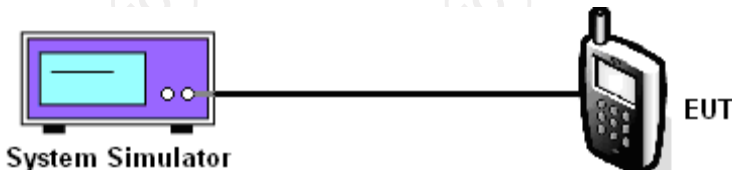
The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

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

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 7: 2W LTE Band 12: 3W LTE Band 13: 3W LTE Band 14: 3W LTE Band 17: 3W
Test Setup:	 The diagram illustrates the test setup. On the left, a 'System Simulator' is represented by a computer monitor and keyboard. A cable connects the simulator to an 'EUT' (Equipment Under Test), which is depicted as a 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

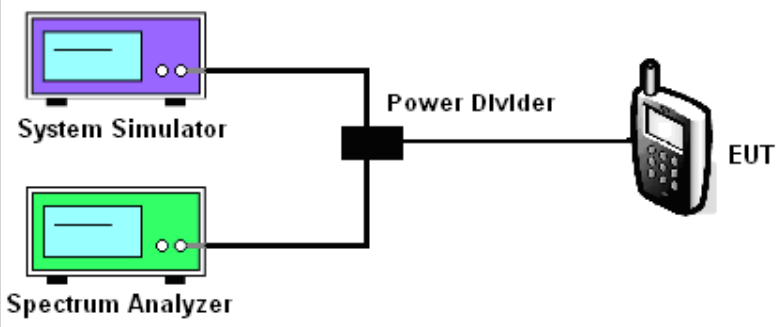
	dBi (EIRP); L_c = signal attenuation in the connecting cable between the transmitter and antenna, in dB. <i>Note: For personal/portable radios utilizing an integral antenna, the factor L_c is typically negligible. However, in a fixed station transmit system that utilizes a long cable run between the 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	114220	Jul. 07, 2022
RF cable (9kHz-40GHz)	TCT	RE-05	N/A	Jul. 07, 2022
Antenna Connector	TCT	RFC-02	N/A	Jul. 07, 2022

5.2. Peak to Average Ratio

5.2.1. Test Specification

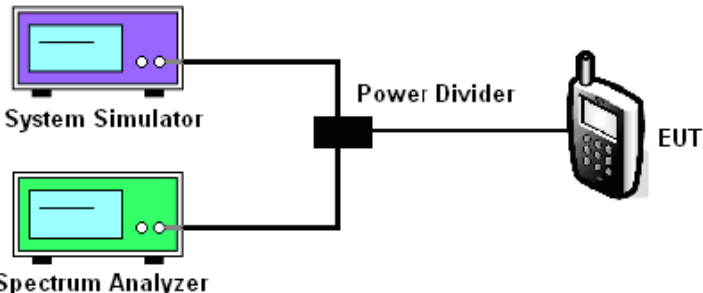
Test Requirement:	Refer to section 2
Test Method:	FCC KDB 971168 D01v03
Limit:	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.
Test Setup:	 The diagram illustrates the test setup. A System Simulator (represented by a purple monitor icon) and a Spectrum Analyzer (represented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

5.2.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Wideband Radio Communication Tester	R&S	CMW500	114220	Jul. 07, 2022
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022
RF cable (9kHz-40GHz)	TCT	RE-05	N/A	Jul. 07, 2022
Antenna Connector	TCT	RFC-02	N/A	Jul. 07, 2022

5.3. 99% Occupied Bandwidth and 26dB Bandwidth Measurement

5.3.1. Test Specification

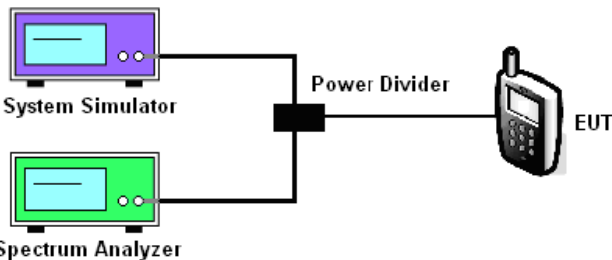
Test Requirement:	Refer to section 2
Test Method:	FCC part 2.1049
Limit:	N/A
Test Setup:	 The diagram shows a System Simulator (top) and a Spectrum Analyzer (bottom) connected to a central Power Divider. The Power Divider is then connected to the EUT (Equipment Under Test) on the right.
Test Procedure:	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	114220	Jul. 07, 2022
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022
RF cable (9kHz-40GHz)	TCT	RE-05	N/A	Jul. 07, 2022
Antenna Connector	TCT	RFC-02	N/A	Jul. 07, 2022

5.4. Band Edge and Conducted Spurious Emission Measurement

5.4.1. Test Specification

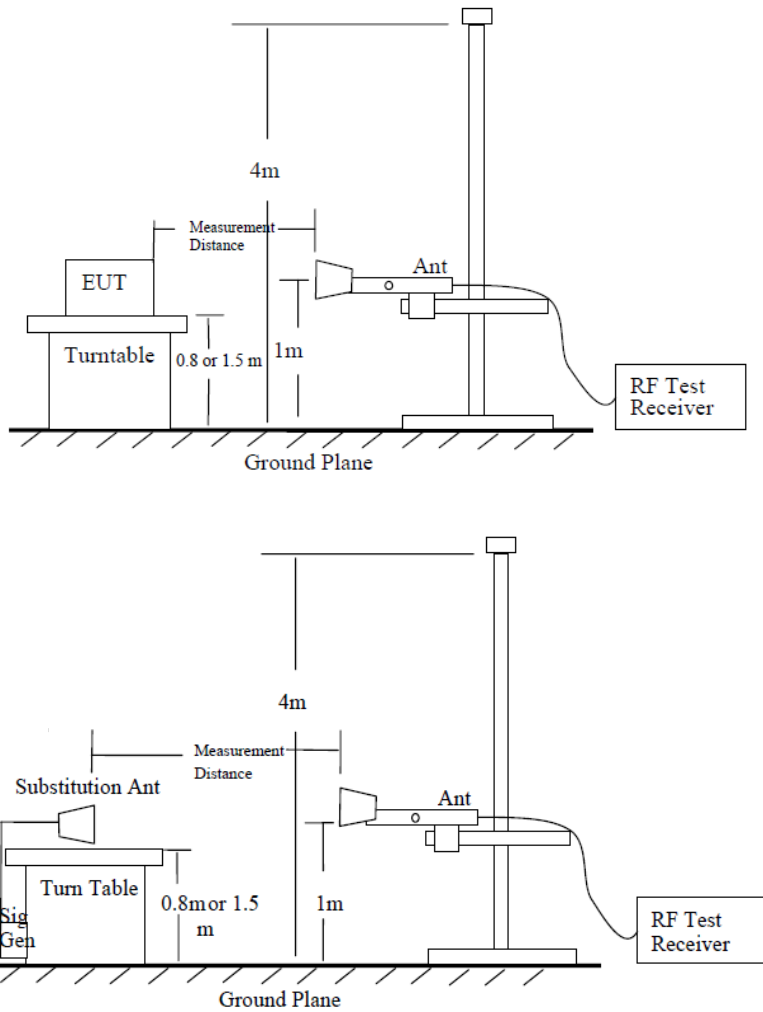
Test Requirement:	Refer to section 2
Test Method:	FCC part2.1051
Limit:	-13dBm
Test Setup:	 The diagram shows a System Simulator (purple box) and a Spectrum Analyzer (green box) connected to a Power Divider (black box). The Power Divider is also connected to the EUT (Equipment Under Test, represented 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 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	114220	Jul. 07, 2022
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jul. 18, 2022
RF cable (9kHz-40GHz)	TCT	RE-05	N/A	Jul. 07, 2022
Antenna Connector	TCT	RFC-02	N/A	Jul. 07, 2022

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:	30MHz~20GHz -13dBm
Test setup:	 The diagrams illustrate the test setup for field strength measurement. The top diagram shows the EUT (Equipment Under Test) on a turntable, with a measurement distance of 0.8 or 1.5 m from the receiving antenna (Ant) mounted on a tower. The bottom diagram shows a substitution antenna (Substitution Ant) on a turntable, with a measurement distance of 0.8 or 1.5 m from the receiving antenna (Ant) mounted on a tower. Both diagrams show a ground plane and an RF Test Receiver connected to the antenna.
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
Universal Radio Communication Tester	R&S	CMU200	110188	Jul. 07, 2022
Spectrum Analyzer	R&S	FSQ40	200061	Jul. 07, 2022
Signal Generator	HP	83623B	3614A00396	Jul. 18, 2022
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 04, 2022
Broadband Antenna	Schwarzbeck	VULB9163	412	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9120D	1201	Sep. 04, 2022
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Apr. 10, 2023
Coaxial cable	SKET	RC_DC18G-N	N/A	Apr. 08, 2022
Coaxial cable	SKET	RC-DC18G-N	N/A	Apr. 08, 2022
Coaxial cable	SKET	RC-DC40G-N	N/A	Jul. 07, 2022
Antenna Mast	Keleto	CC-A-4M	N/A	N/A
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

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, 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	-57.87	23.54	-34.33	-13.00	PASS
5580.00	V	-63.45	23.81	-39.64		
7440.00	V	-79.27	23.96	-55.31		
3720.00	Horizontal	-56.14	23.54	-32.60		
5580.00	H	-62.94	23.81	-39.13		
7440.00	H	-75.86	23.96	-51.90		

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	-57.89	23.58	-34.31	-13.00	PASS
5640.00	V	-69.21	23.85	-45.36		
7520.00	V	-76.62	23.99	-52.63		
3760.00	Horizontal	-56.74	23.58	-33.16		
5640.00	H	-63.19	23.85	-39.34		
7520.00	H	-77.34	23.99	-53.35		

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	-59.97	23.60	-36.37	-13.00	PASS
5700.00	V	-68.76	23.88	-44.88		
7600.00	V	-76.70	24.02	-52.68		
3800.00	Horizontal	-56.17	23.60	-32.57		
5700.00	H	-65.08	23.88	-41.20		
7600.00	H	-78.87	24.02	-54.85		

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	-57.32	23.54	-33.78	-13.00	PASS
5580.00	V	-64.16	23.81	-40.35		
7440.00	V	-77.76	23.96	-53.80		
3720.00	Horizontal	-55.69	23.54	-32.15		
5580.00	H	-63.32	23.81	-39.51		
7440.00	H	-75.21	23.96	-51.25		

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	-58.56	23.58	-34.98	-13.00	PASS
5640.00	V	-68.59	23.85	-44.74		
7520.00	V	-76.45	23.99	-52.46		
3760.00	Horizontal	-56.15	23.58	-32.57		
5640.00	H	-64.38	23.85	-40.53		
7520.00	H	-77.54	23.99	-53.55		

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	-59.38	23.60	-35.78	-13.00	PASS
5700.00	V	-69.24	23.88	-45.36		
7600.00	V	-77.41	24.02	-53.39		
3800.00	Horizontal	-55.73	23.60	-32.13		
5700.00	H	-64.78	23.88	-40.90		
7600.00	H	-79.31	24.02	-55.29		

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	-57.90	23.40	-34.50	-13.00	PASS
5160.00	V	-62.79	23.69	-39.10		
6880.00	V	-78.08	23.75	-54.33		
3440.00	Horizontal	-56.47	23.40	-33.07		
5160.00	H	-62.86	23.69	-39.17		
6880.00	H	-75.66	23.75	-51.91		

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	-57.55	23.42	-34.13	-13.00	PASS
5197.50	V	-68.21	23.73	-44.48		
6930.00	V	-76.99	23.79	-53.20		
3465.00	Horizontal	-55.33	23.42	-31.91		
5197.50	H	-63.62	23.73	-39.89		
6930.00	H	-76.49	23.79	-52.70		

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	-59.75	23.46	-36.29	-13.00	PASS
5235.00	V	-68.27	23.77	-44.50		
6980.00	V	-75.81	23.81	-52.00		
3490.00	Horizontal	-55.47	23.46	-32.01		
5235.00	H	-64.96	23.77	-41.19		
6980.00	H	-78.45	23.81	-54.64		

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	-59.19	23.40	-35.79	-13.00	PASS
5160.00	V	-64.88	23.69	-41.19		
6880.00	V	-77.50	23.75	-53.75		
3440.00	Horizontal	-56.81	23.40	-33.41		
5160.00	H	-63.33	23.69	-39.64		
6880.00	H	-76.37	23.75	-52.62		

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	-57.51	23.42	-34.09	-13.00	PASS
5197.50	V	-68.66	23.73	-44.93		
6930.00	V	-77.42	23.79	-53.63		
3465.00	Horizontal	-56.27	23.42	-32.85		
5197.50	H	-65.19	23.73	-41.46		
6930.00	H	-77.78	23.79	-53.99		

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	-60.19	23.46	-36.73	-13.00	PASS
5235.00	V	-68.78	23.77	-45.01		
6980.00	V	-77.96	23.81	-54.15		
3490.00	Horizontal	-56.09	23.46	-32.63		
5235.00	H	-66.40	23.77	-42.63		
6980.00	H	-79.12	23.81	-55.31		

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	-59.29	23.15	-36.14	-13.00	PASS
2487.00	V	-63.11	23.24	-39.87		
3316.00	V	-77.98	23.35	-54.63		
1658.00	Horizontal	-58.20	23.15	-35.05		
2487.00	H	-59.91	23.24	-36.67		
3316.00	H	-75.96	23.35	-52.61		

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	-57.76	23.17	-34.59	-13.00	PASS
2509.50	V	-68.92	23.26	-45.66		
3346.00	V	-76.61	23.38	-53.23		
1673.00	Horizontal	-56.38	23.17	-33.21		
2509.50	H	-62.75	23.26	-39.49		
3346.00	H	-76.33	23.38	-52.95		

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	-60.75	23.19	-37.56	-13.00	PASS
2532.00	V	-69.95	23.28	-46.67		
3376.00	V	-81.54	23.40	-58.14		
1688.00	Horizontal	-56.15	23.19	-32.96		
2532.00	H	-65.08	23.28	-41.80		
3376.00	H	-80.26	23.40	-56.86		

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	-57.33	23.15	-34.18	-13.00	PASS
2487.00	V	-62.48	23.24	-39.24		
3316.00	V	-78.51	23.35	-55.16		
1658.00	Horizontal	-56.75	23.15	-33.60		
2487.00	H	-62.82	23.24	-39.58		
3316.00	H	-77.22	23.35	-53.87		

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	-57.92	23.17	-34.75	-13.00	PASS
2509.50	V	-68.68	23.26	-45.42		
3346.00	V	-76.79	23.38	-53.41		
1673.00	Horizontal	-54.72	23.17	-31.55		
2509.50	H	-64.14	23.26	-40.88		
3346.00	H	-77.26	23.38	-53.88		

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	-60.31	23.19	-37.12	-13.00	PASS
2532.00	V	-68.55	23.28	-45.27		
3376.00	V	-77.67	23.40	-54.27		
1688.00	Horizontal	-55.83	23.19	-32.64		
2532.00	H	-65.38	23.28	-42.10		
3376.00	H	-79.74	23.40	-56.34		

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	-59.19	23.11	-36.08	-25.00	PASS
7530.00	V	-63.42	23.25	-40.17		
10040.00	V	-78.50	23.38	-55.12		
5020.00	Horizontal	-58.33	23.11	-35.22		
7530.00	H	-60.27	23.25	-37.02		
10040.00	H	-75.92	23.38	-52.54		
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	-56.84	23.14	-33.70	-25.00	PASS
7605.00	V	-68.73	23.23	-45.50		
10140.00	V	-77.53	23.34	-54.19		
5070.00	Horizontal	-55.68	23.14	-32.54		
7605.00	H	-63.26	23.23	-40.03		
10140.00	H	-77.34	23.34	-54.00		
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	-60.22	23.17	-37.05	-25.00	PASS
7680.00	V	-70.15	23.25	-46.90		
10240.00	V	-82.32	23.40	-58.92		
5120.00	Horizontal	-56.40	23.17	-33.23		
7680.00	H	-65.54	23.25	-42.29		
10240.00	H	-79.74	23.40	-56.34		

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	-57.57	23.11	-34.46	-25.00	PASS
7530.00	V	-62.03	23.25	-38.78		
10040.00	V	-79.42	23.38	-56.04		
5020.00	Horizontal	-57.37	23.11	-34.26		
7530.00	H	-62.09	23.25	-38.84		
10040.00	H	-76.48	23.38	-53.10		
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	-57.03	23.14	-33.89	-25.00	PASS
7605.00	V	-68.64	23.23	-45.41		
10140.00	V	-77.98	23.34	-54.64		
5070.00	Horizontal	-55.29	23.14	-32.15		
7605.00	H	-63.18	23.23	-39.95		
10140.00	H	-77.27	23.34	-53.93		
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	-60.17	23.17	-37.00	-25.00	PASS
7680.00	V	-68.74	23.25	-45.49		
10240.00	V	-77.92	23.40	-54.52		
5120.00	Horizontal	-55.71	23.17	-32.54		
7680.00	H	-65.46	23.25	-42.21		
10240.00	H	-78.75	23.40	-55.35		

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	-58.52	23.03	-35.49	-13.00	PASS
2112.00	V	-64.66	23.16	-41.50		
2816.00	V	-79.06	23.25	-55.81		
1408.00	Horizontal	-58.75	23.03	-35.72		
2112.00	H	-61.13	23.16	-37.97		
2816.00	H	-76.83	23.25	-53.58		
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	-58.02	23.05	-34.97	-13.00	PASS
2122.50	V	-68.40	23.18	-45.22		
2830.00	V	-77.22	23.28	-53.94		
1415.00	Horizontal	-54.77	23.05	-31.72		
2122.50	H	-62.21	23.18	-39.03		
2830.00	H	-76.11	23.28	-52.83		
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	-61.17	23.08	-38.09	-13.00	PASS
2133.00	V	-69.89	23.20	-46.69		
2844.00	V	-81.66	23.31	-58.35		
1422.00	Horizontal	-55.73	23.08	-32.65		
2133.00	H	-64.05	23.20	-40.85		
2844.00	H	-79.71	23.31	-56.40		

Band	Band 12(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)		
1408.00	Vertical	-58.53	23.03	-35.50	-13.00	PASS
2112.00	V	-61.75	23.16	-38.59		
2816.00	V	-79.39	23.25	-56.14		
1408.00	Horizontal	-56.61	23.03	-33.58		
2112.00	H	-62.52	23.16	-39.36		
2816.00	H	-76.69	23.25	-53.44		
Band	Band 12(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)		
1415.00	Vertical	-57.38	23.05	-34.33	-13.00	PASS
2122.50	V	-68.54	23.18	-45.36		
2830.00	V	-76.91	23.28	-53.63		
1415.00	Horizontal	-56.95	23.05	-33.90		
2122.50	H	-64.44	23.18	-41.26		
2830.00	H	-77.03	23.28	-53.75		
Band	Band 12(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)		
1422.00	Vertical	-59.29	23.08	-36.21	-13.00	PASS
2133.00	V	-68.83	23.20	-45.63		
2844.00	V	-76.07	23.31	-52.76		
1422.00	Horizontal	-55.82	23.08	-32.74		
2133.00	H	-65.57	23.20	-42.37		
2844.00	H	-78.76	23.31	-55.45		

Band	Band 13(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)		
1564.00	Vertical	-65.53	23.06	-42.47	-40.00	PASS
2346.00	V	-63.38	23.17	-40.21	-13.00	
3128.00	V	-79.05	23.27	-55.78	-13.00	
1564.00	Horizontal	-67.27	23.05	-44.22	-40.00	
2346.00	H	-60.92	23.18	-37.74	-13.00	
3128.00	H	-76.23	23.28	-52.95	-13.00	
Band	Band 13(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)		
1564.00	Vertical	-66.30	23.07	-43.23	-40.00	PASS
2346.00	V	-68.43	23.19	-45.24	-13.00	
3128.00	V	-75.73	23.29	-52.44	-13.00	
1564.00	Horizontal	-65.05	23.07	-41.98	-40.00	
2346.00	H	-62.81	23.19	-39.62	-13.00	
3128.00	H	-76.61	23.30	-53.31	-13.00	
Band	Band 13(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)		
1564.00	Vertical	-66.40	23.08	-43.32	-40.00	PASS
2346.00	V	-68.93	23.20	-45.73	-13.00	
3128.00	V	-80.64	23.31	-57.33	-13.00	
1564.00	Horizontal	-66.14	23.08	-43.06	-40.00	
2346.00	H	-63.60	23.20	-40.40	-13.00	
3128.00	H	-78.91	23.31	-55.60	-13.00	

Band	Band 13(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)		
1564.00	Vertical	-66.93	23.06	-43.87	-40.00	PASS
2346.00	V	-62.27	23.17	-39.10	-13.00	
3128.00	V	-78.81	23.27	-55.54	-13.00	
1564.00	Horizontal	-65.06	23.05	-42.01	-40.00	
2346.00	H	-63.26	23.18	-40.08	-13.00	
3128.00	H	-75.62	23.28	-52.34	-13.00	
Band	Band 13(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)		
1564.00	Vertical	-67.28	23.07	-44.21	-40.00	PASS
2346.00	V	-68.07	23.19	-44.88	-13.00	
3128.00	V	-75.72	23.29	-52.43	-13.00	
1564.00	Horizontal	-66.81	23.07	-43.74	-40.00	
2346.00	H	-62.20	23.19	-39.01	-13.00	
3128.00	H	-76.74	23.30	-53.44	-13.00	
Band	Band 13(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)		
1564.00	Vertical	-66.15	23.08	-43.07	-40.00	PASS
2346.00	V	-68.70	23.20	-45.50	-13.00	
3128.00	V	-75.93	23.31	-52.62	-13.00	
1564.00	Horizontal	-67.15	23.08	-44.07	-40.00	
2346.00	H	-63.49	23.20	-40.29	-13.00	
3128.00	H	-78.23	23.31	-54.92	-13.00	

Band	Band 14(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)		
1586.00	Vertical	-66.77	23.06	-43.71	-40.00	PASS
2379.00	V	-64.62	23.17	-41.45	-13.00	
3172.00	V	-80.27	23.27	-57.00	-13.00	
1586.00	Horizontal	-67.39	23.05	-44.34	-40.00	
2379.00	H	-63.20	23.18	-40.02	-13.00	
3172.00	H	-77.13	23.28	-53.85	-13.00	
Band	Band 14(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)		
1586.00	Vertical	-67.04	23.07	-43.97	-40.00	PASS
2379.00	V	-69.86	23.19	-46.67	-13.00	
3172.00	V	-78.67	23.29	-55.38	-13.00	
1586.00	Horizontal	-67.10	23.07	-44.03	-40.00	
2379.00	H	-64.22	23.19	-41.03	-13.00	
3172.00	H	-78.38	23.30	-55.08	-13.00	
Band	Band 14(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)		
1586.00	Vertical	-66.84	23.08	-43.76	-40.00	PASS
2379.00	V	-71.50	23.20	-48.30	-13.00	
3172.00	V	-82.17	23.31	-58.86	-13.00	
1586.00	Horizontal	-65.96	23.08	-42.88	-40.00	
2379.00	H	-65.03	23.20	-41.83	-13.00	
3172.00	H	-80.36	23.31	-57.05	-13.00	

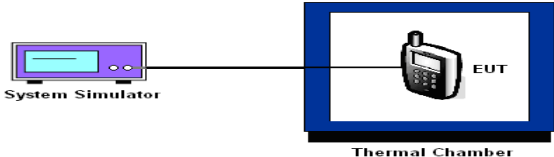
Band	Band 14(16QAM, 10MHz)				Test channel:	Lowest
Test mode:					Temperature :	25°C
					Relative Humidity:	56%
Note: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.						
Frequency (MHz)	Spurious Emission				Limit (dBm)	Result
	Polarization	Level (dBm)	Correction Factor (dB)	Spurious emissions (dBm)		
1586.00	Vertical	-67.12	23.06	-44.06	-40.00	PASS
2379.00	V	-64.54	23.17	-41.37	-13.00	
3172.00	V	-80.27	23.27	-57.00	-13.00	
1586.00	Horizontal	-67.09	23.05	-44.04	-40.00	
2379.00	H	-64.96	23.18	-41.78	-13.00	
3172.00	H	-76.57	23.28	-53.29	-13.00	
Band	Band 14(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)		
1586.00	Vertical	-66.68	23.07	-43.61	-40.00	PASS
2379.00	V	-69.16	23.19	-45.97	-13.00	
3172.00	V	-77.17	23.29	-53.88	-13.00	
1586.00	Horizontal	-66.74	23.07	-43.67	-40.00	
2379.00	H	-64.21	23.19	-41.02	-13.00	
3172.00	H	-78.31	23.30	-55.01	-13.00	
Band	Band 14(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)		
1586.00	Vertical	-66.75	23.08	-43.67	-40.00	PASS
2379.00	V	-70.63	23.20	-47.43	-13.00	
3172.00	V	-77.72	23.31	-54.41	-13.00	
1586.00	Horizontal	-66.94	23.08	-43.86	-40.00	
2379.00	H	-65.89	23.20	-42.69	-13.00	
3172.00	H	-79.15	23.31	-55.84	-13.00	

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	-58.78	23.06	-35.72	-13.00	PASS
2127.00	V	-63.10	23.17	-39.93		
2836.00	V	-78.85	23.27	-55.58		
1418.00	Horizontal	-58.30	23.05	-35.25		
2127.00	H	-61.69	23.18	-38.51		
2836.00	H	-76.16	23.28	-52.88		
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	-57.38	23.07	-34.31	-13.00	PASS
2130.00	V	-68.64	23.19	-45.45		
2840.00	V	-77.03	23.29	-53.74		
1420.00	Horizontal	-55.39	23.07	-32.32		
2130.00	H	-63.40	23.19	-40.21		
2840.00	H	-77.68	23.30	-54.38		
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	-59.18	23.08	-36.10	-13.00	PASS
2133.00	V	-69.56	23.20	-46.36		
2844.00	V	-81.61	23.31	-58.30		
1422.00	Horizontal	-54.92	23.08	-31.84		
2133.00	H	-64.32	23.20	-41.12		
2844.00	H	-79.24	23.31	-55.93		

Band	Band 17(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)		
1418.00	Vertical	-58.31	23.06	-35.25	-13.00	PASS
2127.00	V	-63.40	23.17	-40.23		
2836.00	V	-79.38	23.27	-56.11		
1418.00	Horizontal	-55.53	23.05	-32.48		
2127.00	H	-63.80	23.18	-40.62		
2836.00	H	-75.11	23.28	-51.83		
Band	Band 17(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)		
1420.00	Vertical	-57.16	23.07	-34.09	-13.00	PASS
2130.00	V	-68.42	23.19	-45.23		
2840.00	V	-76.28	23.29	-52.99		
1420.00	Horizontal	-55.43	23.07	-32.36		
2130.00	H	-62.80	23.19	-39.61		
2840.00	H	-76.87	23.30	-53.57		
Band	Band 17(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)		
1422.00	Vertical	-59.76	23.08	-36.68	-13.00	PASS
2133.00	V	-68.90	23.20	-45.70		
2844.00	V	-76.15	23.31	-52.84		
1422.00	Horizontal	-56.16	23.08	-33.08		
2133.00	H	-64.63	23.20	-41.43		
2844.00	H	-77.87	23.31	-54.56		

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. A 'System Simulator' is connected via a cable to an 'EUT' (Equipment Under Test) which is placed inside 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, 1.4M is for LTE Band 12, 5M is for LTE Band 13, 5M is for LTE Band 14, 5M is for LTE Band 17
Test Result:	PASS

5.6.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Wideband Radio Communication Tester	R&S	CMW500	114220	Jul. 07, 2022
Programable tempratuce and humidity chamber	JQ	MHU-80L	N/A	Jul. 18, 2022
DC power supply	Kingrang	KR3005K	N/A	Jul. 18, 2022
RF cable (9kHz-40GHz)	TCT	RE-04	N/A	Jul. 18, 2022
Antenna Connector	TCT	RFC-03	N/A	Jul. 18, 2022

Appendix A: Photographs of Test Setup

Refer to the test report No. TCT210728E001

Appendix B: Photographs of EUT

Refer to the test report No. TCT210728E001

**Test Data for Appendix For LTE Band 2, Appendix For LTE Band 4,
Appendix For LTE Band 5, Appendix For LTE Band 7, Appendix For LTE
Band 12, Appendix For LTE Band 13, Appendix For LTE Band 14 and
Appendix For LTE Band 17**

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