

FCC REPORT

(LTE)

Applicant: b mobile HK Limited

Address of Applicant: Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung; New Territories; Hong Kong

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: AX1076+, AX1078

Trade mark: Bmobile

FCC ID: ZSW-30-092

Applicable standards: FCC CFR Title 47 Part 2
FCC CFR Title 47 Part 22 Subpart H
FCC CFR Title 47 Part 24 Subpart E
FCC CFR Title 47 Part 27 Subpart L
FCC CFR Title 47 Part 27 Subpart M

Date of sample receipt: 07 Dec., 2020

Date of Test: 08 Dec., 2020 to 05 Jan., 2021

Date of report issued: 14 Jan., 2021

Test Result: PASS*

*In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2. Version

Version No.	Date	Description
00	06 Jan., 2021	Original
01	14 Jan., 2021	Update antenna gain.

Remark:

This report was amended on FCC ID: ZSW-30-092 follow FCC Class II Permissive Change. The differences between them as below: change the antenna, memory, and non-transmitter secondary circuit parts, supplement the difference test. So the Field strength of spurious radiation Method re-test.

Tested by:

Mike Ou

Date:

14 Jan., 2021

Test Engineer

Reviewed by:

Winner Zhang

Date:

14 Jan., 2021

Project Engineer

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4. Test Summary

Test Items	Section in CFR 47	Result
RF Exposure (SAR)	Part 1.1307 Part 2.1093	Passed (Please refer to SAR Report)
RF Output Power	Part 2.1046 Part 22.913 (a)(5) Part 24.232 (c) Part 27.50 (d)(4) Part 27.50 (h)(2)	Pass*
Peak-to-Average Ratio	Part 22.913 (d) Part 24.232 (d) Part 27.50(d)(5)	Pass*
Modulation Characteristics	Part 2.1047	Pass*
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 22.917(b) Part 24.238(b) Part 27.53(h) Part 27.53(m)	Pass*
Out of band emission at antenna terminals	Part 2.1053 Part 22.917 (a) Part 24.238 (a) Part 27.53 (h) Part 27.53(m)	Pass*
Field strength of spurious radiation	Part 2.1053 Part 22.917(a) Part 24.238 (a) Part 27.53 (h) Part 27.53(m)	Pass
Frequency stability vs. temperature	Part 22.355 Part 24.235 Part 27.54 Part 2.1055(a)(1)(b)	Pass*
Frequency stability vs. voltage	Part 22.355 Part 24.235 Part 27.54 Part 2.1055(d)(2)	Pass*
1. Pass: The EUT complies with the essential requirements in the standard. 2. Pass*: refer to the FCC ID: ZSW-30-092, Report No.: CCISE190712902.		

5. General Information

5.1 Client Information

Applicant:	b mobile HK Limited
Address:	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung; New Territories; Hong Kong
Manufacturer:	b mobile HK Limited
Address:	Flat 18; 14/F Block 1; Golden Industrial Building;16-26 Kwai Tak Street; Kwai Chung; New Territories; Hong Kong

5.2 General Description of E.U.T.

Product Name:	Mobile Phone
Model No.:	AX1076+, AX1078
Hardware version:	Bmobile_AX1076+_HW_V1.0
Software version:	Bmobile_AX1076+_TEM_PE_V001
Operation Frequency range:	LTE Band 2: TX: 1850MHz-1910MHz, RX: 1930MHz-1990MHz LTE Band 4: TX: 1710MHz-1755MHz, RX: 2110MHz-2155MHz LTE Band 5: TX: 824MHz-849MHz, RX: 869MHz-894MHz LTE Band 7: TX: 2500MHz-2570MHz, RX: 2620MHz-2690MHz
Modulation type:	QPSK, 16QAM
Antenna type:	Internal Antenna
Antenna gain:	LTE Band 2: 1.5dBi LTE Band 4: 1.3dBi LTE Band 5: 0.7dBi LTE Band 7: 1.2dBi
Power supply:	Rechargeable Li-ion Battery DC3.8V-2000mAh
AC adapter:	Input: AC100-240V, 50/60Hz, 0.15A Output: DC 5.0V, 500mA
Remark:	Model No.: AX1076+, AX1078 were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name.
Test Sample Condition:	The applicant provided engineering samples for staying in continuously transmitting for testing.

Operation Frequency List:

LTE Band 2 (1.4MHz)		LTE Band 2 (3MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
18607	1850.70	18615	1851.50
18608	1850.80	18616	1851.60
....			
18899	1879.90	18899	1879.90
18900	1880.00	18900	1880.00
18901	1880.10	18901	1880.10
...	...	...	...
19193	1909.20	19185	1908.40
19194	1909.30	19186	1908.50
LTE Band 2 (5MHz)		LTE Band 2 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
18625	1852.50	18650	1855.00
18626	1852.60	18651	1855.10
....			
18899	1879.90	18899	1879.90
18900	1880.00	18900	1880.00
18901	1880.10	18901	1880.10
...	...	...	...
19175	1907.40	19150	1904.90
19176	1907.50	19151	1905.00
LTE Band 2 (15MHz)		LTE Band 2 (20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
18675	1857.50	18700	1860.00
18676	1857.60	18701	1860.10
....			
18899	1879.90	18899	1879.90
18900	1880.00	18900	1880.00
18901	1880.10	18901	1880.10
...	...	...	...
19125	1902.40	19100	1899.90
19126	1902.50	19101	1900.00

LTE Band 4 (1.4MHz)		LTE Band 4 (3MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
19957	1710.70	19965	1711.50
19958	1710.80	19966	1711.60
....			
20174	1732.40	20174	1732.40
20175	1732.50	20175	1732.50
20176	1732.60	20176	1732.60
...	...	...	...
20392	1754.20	20384	1753.40
20393	1754.30	20385	1753.50
LTE Band 4 (5MHz)		LTE Band 4 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
19975	1712.50	20000	1715.00
19976	1712.60	20001	1715.10
....			
20174	1732.40	20174	1732.40
20175	1732.50	20175	1732.50
20176	1732.60	20176	1732.60
...	...	...	...
20374	1752.40	20349	1749.90
20375	1752.50	20350	1750.00
LTE Band 4 (15MHz)		LTE Band 4 (20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
20025	1717.50	20050	1720.00
20026	1717.60	20051	1720.10
....			
20174	1732.40	20174	1732.40
20175	1732.50	20175	1732.50
20176	1732.60	20176	1732.60
...	...	...	...
20324	1747.40	20299	1744.90
20325	1747.50	20300	1745.00

LTE Band 5 (1.4MHz)		LTE Band 5 (3MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
20407	824.70	20415	825.50
20408	824.80	20416	825.60
....			
20524	836.40	20524	836.40
20525	836.50	20525	836.50
20526	836.60	20526	836.60
...	...	...	...
20642	848.20	20634	847.40
20643	848.30	20635	847.50
LTE Band 5 (5MHz)		LTE Band 5 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
20425	826.50	20450	829.00
20426	826.60	20451	829.10
....			
20524	836.40	20524	836.40
20525	836.50	20525	836.50
20526	836.60	20526	836.60
...	...	...	...
20624	846.40	20599	839.90
20625	846.50	20600	844.00

LTE Band 7 (5MHz)		LTE Band 7 (10MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
20775	2502.50	20800	2505.00
20776	2502.60	20801	2502.10
....			
21099	2534.90	21099	2534.90
21100	2535.00	21100	2535.00
21101	2535.20	21101	2535.20
...	...	...	...
21424	2567.40	21399	2564.90
21425	2567.50	21400	2565.00
LTE Band 7 (15MHz)		LTE Band 7 (20MHz)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
20825	2507.50	20850	2510.00
20826	2507.60	20851	2510.10
....			
21099	2534.90	21099	2534.90
21100	2535.00	21100	2535.00
21101	2535.20	21101	2535.20
...	...	...	...
21374	2562.40	21349	2559.90
21375	2562.50	21350	2560.00

Regards to the operating frequency range, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channels as below:

LTE Band 2 (1.4MHz)			LTE Band 2 (3MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	18607	1850.70	Lowest channel	18615	1851.50
Middle channel	18900	1880.00	Middle channel	18900	1880.00
Highest channel	19193	1909.30	Highest channel	19185	1908.50
LTE Band 2 (5MHz)			LTE Band 2 (10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	18625	1852.50	Lowest channel	18650	1855.00
Middle channel	18900	1880.00	Middle channel	18900	1880.00
Highest channel	19175	1907.50	Highest channel	19150	1905.00
LTE Band 2 (15MHz)			LTE Band 2 (20MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	18675	1857.50	Lowest channel	18700	1860.00
Middle channel	18900	1880.00	Middle channel	18900	1880.00
Highest channel	19125	1902.50	Highest channel	19100	1900.00

LTE Band 4 (1.4MHz)			LTE Band 4 (3MHz)		
Channel:		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	19957	1710.70	Lowest channel	19965	1711.50
Middle channel	20175	1732.50	Middle channel	20175	1732.50
Highest channel	20393	1754.30	Highest channel	20385	1753.50
LTE Band 4 (5MHz)			LTE Band 4 (10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	19975	1712.50	Lowest channel	20000	1715.00
Middle channel	20175	1732.50	Middle channel	20175	1732.50
Highest channel	20375	1752.50	Highest channel	20350	1750.00
LTE Band 4 (15MHz)			LTE Band 4 (20MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	20025	1717.50	Lowest channel	20050	1720.00
Middle channel	20175	1732.50	Middle channel	20175	1732.50
Highest channel	20325	1747.50	Highest channel	20300	1745.00

LTE Band 5 (1.4MHz)			LTE Band 5 (3MHz)		
Channel:		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	20407	824.70	Lowest channel	20415	825.50
Middle channel	20525	836.50	Middle channel	20525	836.50
Highest channel	20643	848.30	Highest channel	20635	847.50
LTE Band 5 (5MHz)			LTE Band 5 (10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	20425	826.50	Lowest channel	20450	829.00
Middle channel	20525	836.50	Middle channel	20525	836.50
Highest channel	20625	846.50	Highest channel	20600	844.00

LTE Band 7 (5MHz)			LTE Band 7 (10MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	20775	2502.50	Lowest channel	20800	2505.00
Middle channel	21100	2535.00	Middle channel	21100	2535.00
Highest channel	21425	2567.50	Highest channel	21400	2565.00
LTE Band 7 (15MHz)			LTE Band 7 (20MHz)		
Channel		Frequency (MHz)	Channel		Frequency (MHz)
Lowest channel	20825	2507.50	Lowest channel	20850	2510.00
Middle channel	21100	2535.00	Middle channel	21100	2535.00
Highest channel	21375	2562.50	Highest channel	21350	2560.00

5.3 Test environment and mode

Operating Environment:	
Temperature:	Normal: 15°C ~ 35°C, Extreme: -30°C ~ +50°C
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar
Voltage:	Nominal: 3.8Vdc, Extreme: Low 3.5Vdc, High 4.35Vdc
Test mode:	
LTE QPSK mode	Keep the EUT communication with simulated station in QPSK mode
LTE 16-QAM mode	Keep the EUT communication with simulated station in 16-QAM mode
Remark: The EUT has been tested under continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing. The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for these modes with power adaptor, earphone and Data cable. Just the worst case position (H mode) shown in report.	

5.4 Description of Support Units

Test Equipment	Manufacturer	Model No.	Serial No.
Simulated Station	Anritsu	MT8820C	6201026545

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.38 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.36 dB (k=2)

5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.
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5.7 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations: ● FCC - Designation No.: CN1211 JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551. ● ISED – CAB identifier.: CN0021 The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1. ● A2LA - Registration No.: 4346.01 This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf
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5.8 Laboratory Location

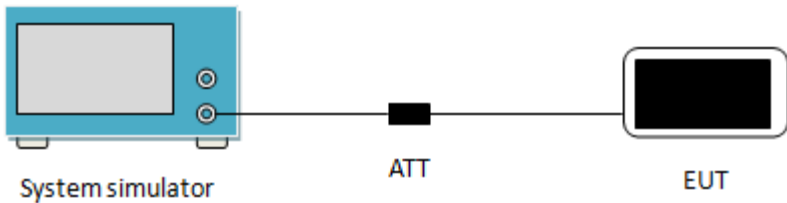
JianYan Testing Group Shenzhen Co., Ltd. Address: No.110~116, Building B, Jinyuan Business Building, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Tel: +86-755-23118282, Fax: +86-755-23116366 Email: info@ccis-cb.com, Website: http://www.ccis-cb.com
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5.9 Test Instruments list

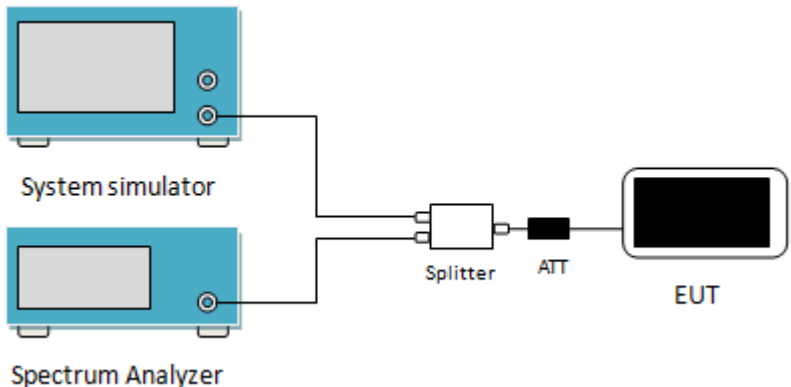
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2020	07-21-2021
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-07-2020	03-06-2021
Biconical Antenna	SCHWARZBECK	VUBA9117	359	06-22-2020	06-21-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-07-2020	03-06-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2020	06-21-2021
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2019	11-17-2020
EMI Test Software	AUDIX	E3	Version: 6.110919b		
Pre-amplifier	HP	8447D	2944A09358	03-07-2020	03-06-2021
Pre-amplifier	CD	PAP-1G18	11804	03-07-2020	03-06-2021
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-05-2020	03-04-2021
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2019	11-17-2020
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-05-2020	03-04-2021
Spectrum Analyzer	Agilent	N9020A	MY50510123	11-18-2019	11-17-2020
Signal Generator	Rohde & Schwarz	SMX	835454/016	03-05-2020	03-04-2021
Signal Generator	R&S	SMR20	1008100050	03-05-2020	03-04-2021
RF Switch Unit	MWRFTTEST	MW200	N/A	N/A	N/A
Test Software	MWRFTTEST	MTS8200	Version: 2.0.0.0		
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2020	03-06-2021
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2020	03-06-2021
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2020	03-06-2021
DC Power Supply	XinNuoEr	WYK-10020K	1409050110020	09-25-2019	09-24-2020
Temperature Humidity Chamber	HengPu	HPGDS-500	20140828008	11-01-2019	11-31-2020
Simulated Station	Rohde & Schwarz	CMW500	140493	07-22-2020	07-21-2021

6. Test results

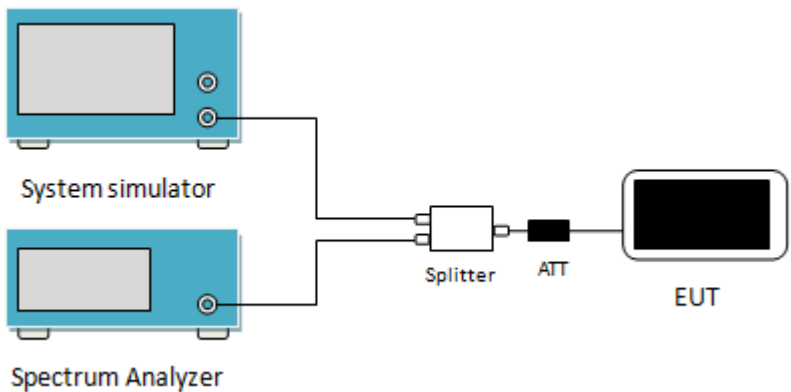
6.1 Conducted Output Power, ERP and EIRP

Test Requirement:	Part 22.913(a)(5), Part 24.232(c), Part 27.50(d)(4), Part 27.50 (h)(2)
Test Method:	ANSI/TIA-603-D 2010
Limit:	LTE Band 2: 7W, LTE Band 4: 1W, LTE Band 5: 7W, LTE Band 7: 2W,
Test Setup:	 The diagram illustrates the test setup. On the left is a blue rectangular box labeled 'System simulator'. A line connects its right side to a small black rectangle labeled 'ATT' (attenuator). Another line connects the right side of the 'ATT' to a black rectangular box labeled 'EUT' (Equipment Under Test).
Test Procedure:	The transmitter output was connected to a calibrated attenuator, the other end of which was connected to the CMW500. Transmitter output power was read off in dBm.
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Refer to the FCC ID: ZSW-30-092, Report No.: CCISE190712902.

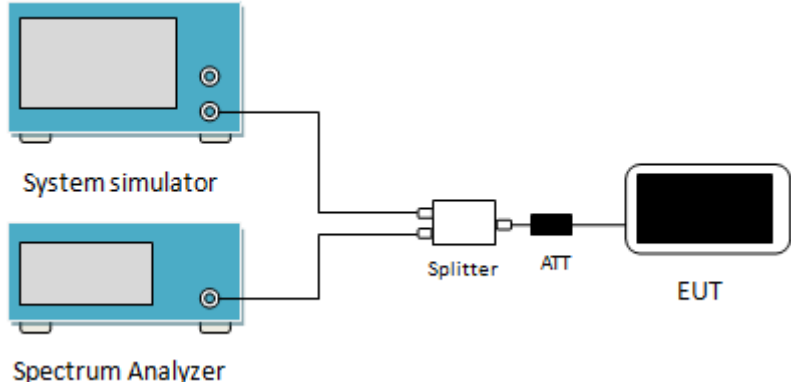
6.2 Peak-to-Average Ratio

Test Requirement:	Part 22.913(d), Part 24.232 (d), Part 27.50(d)(5)
Test Method:	ANSI C63.26-2015
Limit:	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.
Test Setup:	 The diagram illustrates the test setup for measuring the Peak-to-Average Ratio (PAR). It shows a System simulator and a Spectrum Analyzer connected to a Splitter. The Splitter is connected to an ATT (Attenuator), which is then connected to the EUT (Equipment Under Test).
Test Procedure:	1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. 2 Set the CCDF option in spectrum analyzer, $RBW \geq OBW$, 3 Set the EUT working in highest power level, measured and recorded the 0.1% as PAPR level. 4 Repeat step 1~3 at other frequency and modulations.
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Refer to the FCC ID: ZSW-30-092, Report No.: CCISE190712902.

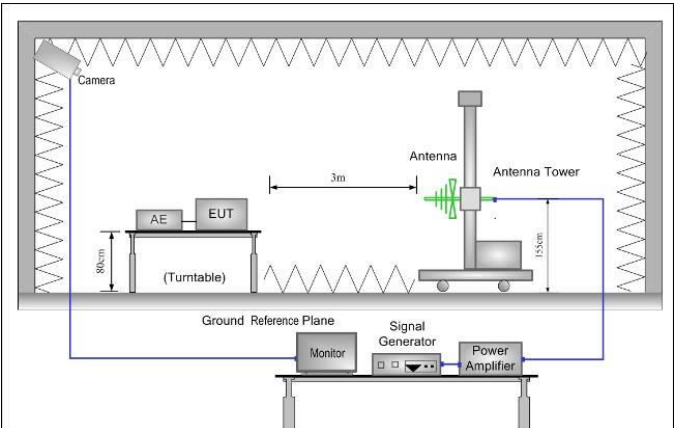
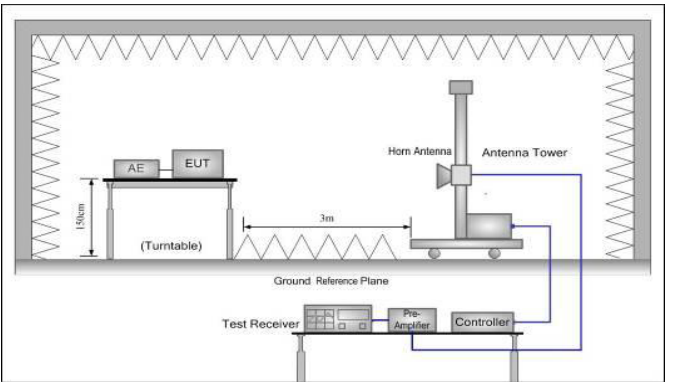
6.3 Occupy Bandwidth

Test Requirement:	Part 22.917(b), Part 24.238(b), Part 27.53(h), Part 27.53(m)
Test Method:	ANSI/TIA-603-D 2010
Test Setup:	 The diagram illustrates the test setup for measuring occupied bandwidth. It shows a System simulator and a Spectrum Analyzer connected to a Splitter. The Splitter is connected to an ATT (Attenuator), which is then connected to the EUT (Equipment Under Test).
Test Procedure:	1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer 2. RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW. 3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Refer to the FCC ID: ZSW-30-092, Report No.: CCISE190712902.

6.4 Out of band emission at antenna terminals

Test Requirement:	Part 22.917(b), Part 24.238 (a), part 27.53(g), part 27.53(h), Part 27.53(m)
Test Method:	ANSI/TIA-603-D 2010
Limit:	LTE Band 2 & 4 & 5: The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB (-13 dBm). LTE Band 7: For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz.
Test Setup:	 The diagram shows a test setup for out-of-band emission measurement. A System simulator and a Spectrum Analyzer are connected to a Splitter. The Splitter is connected to an ATT (Attenuator) and then to the EUT (Equipment Under Test).
Test Procedure:	1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. 2 The resolution bandwidth of the spectrum analyzer was set at 100 kHz when below 1GHz, 1MHz when above 1 GHz; sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic. 3 For the out of band: Set the RBW=100 kHz, VBW=300 kHz when below 1 GHz, RBW =1 MHz, VBW=3 MHz when above 1 GHz, Start=30MHz, Stop= 10th harmonic. 4 Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Refer to the FCC ID: ZSW-30-092, Report No.: CCISE190712902.
Remark:	Pre-scan all RB Size and offset, and found the RB Size and offset of worst case, so the report shows only the worst case test data.

6.5 Field strength of spurious radiation measurement

Test Requirement:	Part 22.917(b), Part 24.238 (a), Part 27.53(m), Part 27.53(h)
Test Method:	ANSI/TIA-603-D 2010
Limit:	LTE Band 2 & 4 & 5: The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB (-13 dBm). LTE Band 7: For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz.
Test setup:	Below 1GHz  Above 1GHz 
Test Procedure:	1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. 3. The frequency range up to tenth harmonic was investigated for each

	of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method. 4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. ERP / EIRP = S.G. output (dBm) + Antenna Gain(dB/dBi) – Cable Loss (dB)
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details.
Test results:	Passed

Measurement Data:
LTE Band 2 part:

Band 2 (1.4MHz)							
Lowest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3701.40	-63.31	12.64	0.75	-51.42	-13.00	-38.42	Vertical
5552.10	-54.34	12.76	1.13	-42.71	-13.00	-29.71	Vertical
7402.00	-49.25	11.44	1.63	-39.44	-13.00	-26.44	Vertical
3701.40	-61.26	12.64	0.75	-49.37	-13.00	-36.37	Horizontal
5552.10	-55.61	12.76	1.13	-43.98	-13.00	-30.98	Horizontal
7402.00	-49.28	11.44	1.63	-39.47	-13.00	-26.47	Horizontal
Middle channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3760.00	-62.89	12.71	0.79	-50.97	-13.00	-37.97	Vertical
5640.00	-54.06	12.87	1.15	-42.34	-13.00	-29.34	Vertical
7520.00	-49.09	11.48	1.66	-39.27	-13.00	-26.27	Vertical
3760.00	-61.00	12.71	0.79	-49.08	-13.00	-36.08	Horizontal
5640.00	-55.74	12.87	1.15	-44.02	-13.00	-31.02	Horizontal
7520.00	-49.77	11.48	1.66	-39.95	-13.00	-26.95	Horizontal
Highest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3816.60	-63.29	12.78	0.81	-51.32	-13.00	-38.32	Vertical
5724.90	-53.80	12.97	1.19	-42.02	-13.00	-29.02	Vertical
7633.20	-48.86	11.34	1.71	-39.23	-13.00	-26.23	Vertical
3816.60	-61.52	12.78	0.81	-49.55	-13.00	-36.55	Horizontal
5724.90	-55.51	12.97	1.19	-43.73	-13.00	-30.73	Horizontal
7633.20	-49.77	11.34	1.71	-40.14	-13.00	-27.14	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.							

Band 2 (20MHz)							
Lowest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3720.00	-63.50	12.66	0.77	-51.61	-13.00	-38.61	Vertical
5580.00	-54.56	12.80	1.15	-42.91	-13.00	-29.91	Vertical
7440.00	-49.19	11.46	1.64	-39.37	-13.00	-26.37	Vertical
3720.00	-61.55	12.66	0.77	-49.66	-13.00	-36.66	Horizontal
5580.00	-55.85	12.80	1.15	-44.20	-13.00	-31.20	Horizontal
7440.00	-49.21	11.46	1.64	-39.39	-13.00	-26.39	Horizontal
Middle channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3760.00	-63.96	12.71	0.79	-52.04	-13.00	-39.04	Vertical
5640.00	-55.03	12.87	1.15	-43.31	-13.00	-30.31	Vertical
7520.00	-49.09	11.48	1.66	-39.27	-13.00	-26.27	Vertical
3760.00	-61.53	12.71	0.79	-49.61	-13.00	-36.61	Horizontal
5640.00	-55.62	12.87	1.15	-43.90	-13.00	-30.90	Horizontal
7520.00	-49.56	11.48	1.66	-39.74	-13.00	-26.74	Horizontal
Highest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3800.00	-63.63	12.76	0.79	-51.66	-13.00	-38.66	Vertical
5700.00	-55.53	12.94	1.18	-43.77	-13.00	-30.77	Vertical
7600.00	-49.00	11.38	1.69	-39.31	-13.00	-26.31	Vertical
3800.00	-61.39	12.76	0.79	-49.42	-13.00	-36.42	Horizontal
5700.00	-55.36	12.94	1.18	-43.60	-13.00	-30.60	Horizontal
7600.00	-49.47	11.38	1.69	-39.78	-13.00	-26.78	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.							

LTE Band 4 part:

Band 4 (1.4MHz)							
Lowest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3421.40	-53.90	12.24	0.70	-42.36	-13.00	-29.36	Vertical
5132.10	-58.50	12.92	1.01	-46.59	-13.00	-33.59	Vertical
6842.80	-49.65	11.42	1.53	-39.76	-13.00	-26.76	Vertical
3421.40	-56.08	12.24	0.70	-44.54	-13.00	-31.54	Horizontal
5132.10	-58.75	12.92	1.01	-46.84	-13.00	-33.84	Horizontal
6842.80	-49.72	11.42	1.53	-39.83	-13.00	-26.83	Horizontal
Middle channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3465.00	-54.08	12.33	0.72	-42.47	-13.00	-29.47	Vertical
5197.50	-58.89	12.88	1.04	-47.05	-13.00	-34.05	Vertical
6930.00	-49.92	11.30	1.56	-40.18	-13.00	-27.18	Vertical
3465.00	-56.18	12.33	0.72	-44.57	-13.00	-31.57	Horizontal
5197.50	-58.60	12.88	1.04	-46.76	-13.00	-33.76	Horizontal
6930.00	-49.68	11.30	1.56	-39.94	-13.00	-26.94	Horizontal
Highest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3508.60	-53.99	12.41	0.74	-42.32	-13.00	-29.32	Vertical
5262.90	-58.48	12.84	1.07	-46.71	-13.00	-33.71	Vertical
7017.20	-49.66	11.21	1.58	-40.03	-13.00	-27.03	Vertical
3508.60	-55.81	12.41	0.74	-44.14	-13.00	-31.14	Horizontal
5262.90	-58.08	12.84	1.07	-46.31	-13.00	-33.31	Horizontal
7017.20	-49.39	11.21	1.58	-39.76	-13.00	-26.76	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.							

Band 4 (20MHz)							
Lowest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3440.00	-54.11	12.28	0.71	-42.54	-13.00	-29.54	Vertical
5160.00	-58.87	12.90	1.03	-47.00	-13.00	-34.00	Vertical
6880.00	-49.57	11.37	1.54	-39.74	-13.00	-26.74	Vertical
3440.00	-56.51	12.28	0.71	-44.94	-13.00	-31.94	Horizontal
5160.00	-58.30	12.90	1.03	-46.43	-13.00	-33.43	Horizontal
6880.00	-50.16	11.37	1.54	-40.33	-13.00	-27.33	Horizontal
Middle channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3465.00	-54.39	12.33	0.72	-42.78	-13.00	-29.78	Vertical
5197.50	-59.21	12.88	1.04	-47.37	-13.00	-34.37	Vertical
6930.00	-49.59	11.30	1.56	-39.85	-13.00	-26.85	Vertical
3465.00	-56.62	12.33	0.72	-45.01	-13.00	-32.01	Horizontal
5197.50	-58.61	12.88	1.04	-46.77	-13.00	-33.77	Horizontal
6930.00	-49.62	11.30	1.56	-39.88	-13.00	-26.88	Horizontal
Highest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3490.00	-54.74	12.38	0.73	-43.09	-13.00	-30.09	Vertical
5235.00	-58.98	12.86	1.06	-47.18	-13.00	-34.18	Vertical
6980.00	-49.78	11.23	1.57	-40.12	-13.00	-27.12	Vertical
3490.00	-56.39	12.38	0.73	-44.74	-13.00	-31.74	Horizontal
5235.00	-58.13	12.86	1.06	-46.33	-13.00	-33.33	Horizontal
6980.00	-49.11	11.23	1.57	-39.45	-13.00	-26.45	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.							

Band 5 (1.4MHz)							
Lowest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
1649.40	-45.68	9.57	0.20	-36.31	-13.00	-23.31	Vertical
2474.10	-61.79	10.86	0.43	-51.36	-13.00	-38.36	Vertical
3298.80	-58.78	12.00	0.64	-47.42	-13.00	-34.42	Vertical
1649.40	-58.71	9.57	0.20	-49.34	-13.00	-36.34	Horizontal
2474.10	-61.88	10.86	0.43	-51.45	-13.00	-38.45	Horizontal
3298.80	-61.55	12.00	0.64	-50.19	-13.00	-37.19	Horizontal
Middle channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
1673.30	-46.02	9.66	0.22	-36.58	-13.00	-23.58	Vertical
2509.50	-62.17	10.91	0.46	-51.72	-13.00	-38.72	Vertical
3346.00	-58.43	12.09	0.66	-47.00	-13.00	-34.00	Vertical
1673.30	-58.95	9.66	0.22	-49.51	-13.00	-36.51	Horizontal
2509.50	-61.52	10.91	0.46	-51.07	-13.00	-38.07	Horizontal
3346.00	-61.69	12.09	0.66	-50.26	-13.00	-37.26	Horizontal
Highest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
1696.60	-45.71	9.74	0.23	-36.20	-13.00	-23.20	Vertical
2544.90	-61.86	10.94	0.49	-51.41	-13.00	-38.41	Vertical
3393.20	-58.53	12.19	0.68	-47.02	-13.00	-34.02	Vertical
1696.60	-58.76	9.74	0.23	-49.25	-13.00	-36.25	Horizontal
2544.90	-61.51	10.94	0.49	-51.06	-13.00	-38.06	Horizontal
3393.20	-62.03	12.19	0.68	-50.52	-13.00	-37.52	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.							

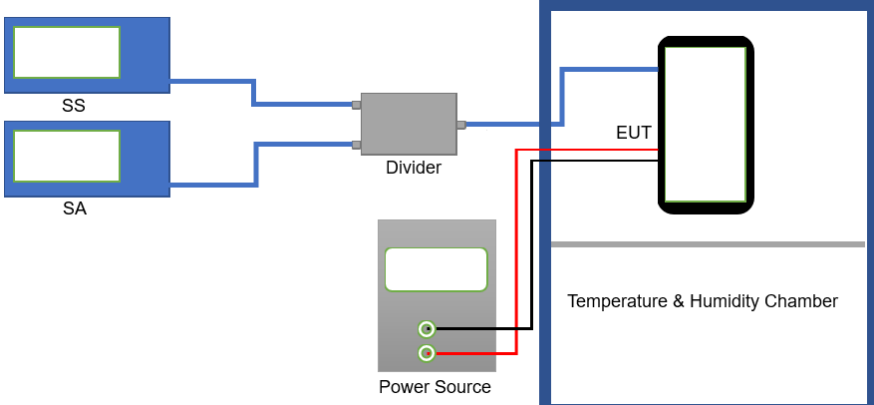
Band 5 (10MHz)							
Lowest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
1658.00	-45.71	9.60	0.21	-36.32	-13.00	-23.32	Vertical
2487.00	-61.37	10.88	0.45	-50.94	-13.00	-37.94	Vertical
3316.00	-59.15	12.03	0.65	-47.77	-13.00	-34.77	Vertical
1658.00	-58.51	9.60	0.21	-49.12	-13.00	-36.12	Horizontal
2487.00	-61.88	10.88	0.45	-51.45	-13.00	-38.45	Horizontal
3316.00	-61.98	12.03	0.65	-50.60	-13.00	-37.60	Horizontal
Middle channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
1673.30	-45.63	9.66	0.21	-36.18	-13.00	-23.18	Vertical
2509.50	-61.17	10.91	0.46	-50.72	-13.00	-37.72	Vertical
3346.00	-59.48	12.09	0.66	-48.05	-13.00	-35.05	Vertical
1673.30	-58.66	9.66	0.21	-49.21	-13.00	-36.21	Horizontal
2509.50	-62.30	10.91	0.46	-51.85	-13.00	-38.85	Horizontal
3346.00	-62.02	12.09	0.66	-50.59	-13.00	-37.59	Horizontal
Highest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
1688.00	-46.06	9.71	0.23	-36.58	-13.00	-23.58	Vertical
2532.00	-61.14	10.93	0.48	-50.69	-13.00	-37.69	Vertical
3376.00	-59.07	12.15	0.67	-47.59	-13.00	-34.59	Vertical
1688.00	-58.54	9.71	0.23	-49.06	-13.00	-36.06	Horizontal
2532.00	-62.42	10.93	0.48	-51.97	-13.00	-38.97	Horizontal
3376.00	-62.51	12.15	0.67	-51.03	-13.00	-38.03	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.							

LTE Band 7 part:

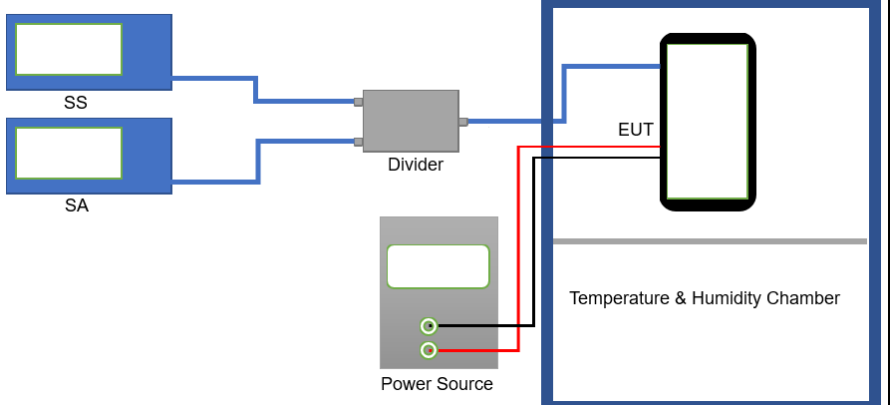
Band 7 (5MHz)							
Lowest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
5005.00	-42.86	13.00	0.94	-30.80	-25.00	-5.80	Vertical
7507.50	-49.07	11.49	1.65	-39.23	-25.00	-14.23	Vertical
10010.00	-50.40	11.69	1.91	-40.62	-25.00	-15.62	Vertical
5005.00	-48.27	13.00	0.94	-36.21	-25.00	-11.21	Horizontal
7507.50	-48.72	11.49	1.65	-38.88	-25.00	-13.88	Horizontal
10010.00	-50.26	11.69	1.91	-40.48	-25.00	-15.48	Horizontal
Middle channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
5070.00	-42.72	12.96	0.98	-30.74	-25.00	-5.74	Vertical
7605.00	-49.03	11.37	1.69	-39.35	-25.00	-14.35	Vertical
10140.00	-50.20	11.62	1.94	-40.52	-25.00	-15.52	Vertical
5070.00	-47.85	12.96	0.98	-35.87	-25.00	-10.87	Horizontal
7605.00	-49.03	11.37	1.69	-39.35	-25.00	-14.35	Horizontal
10140.00	-50.35	11.62	1.94	-40.67	-25.00	-15.67	Horizontal
Highest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
5135.00	-42.76	12.92	1.01	-30.85	-25.00	-5.85	Vertical
7702.50	-48.83	11.26	1.72	-39.29	-25.00	-14.29	Vertical
10270.00	-50.10	11.54	1.95	-40.51	-25.00	-15.51	Vertical
5135.00	-47.96	12.92	1.01	-36.05	-25.00	-11.05	Horizontal
7702.50	-47.98	11.26	1.72	-38.44	-25.00	-13.44	Horizontal
10270.00	-50.26	11.54	1.95	-40.67	-25.00	-15.67	Horizontal
Remark:							
The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.							

Band 7 (20MHz)							
Lowest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
5020.00	-43.28	12.99	0.97	-31.26	-25.00	-6.26	Vertical
7530.00	-49.01	11.46	1.68	-39.23	-25.00	-14.23	Vertical
10040.00	-50.58	11.68	1.94	-40.84	-25.00	-15.84	Vertical
5020.00	-48.69	12.99	0.97	-36.67	-25.00	-11.67	Horizontal
7530.00	-48.95	11.46	1.68	-39.17	-25.00	-14.17	Horizontal
10040.00	-49.76	11.68	1.94	-40.02	-25.00	-15.02	Horizontal
Middle channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
5070.00	-43.42	12.96	0.98	-31.44	-25.00	-6.44	Vertical
7605.00	-49.17	11.37	1.69	-39.49	-25.00	-14.49	Vertical
10140.00	-50.05	11.62	1.94	-40.37	-25.00	-15.37	Vertical
5070.00	-48.74	12.96	0.98	-36.76	-25.00	-11.76	Horizontal
7605.00	-48.79	11.37	1.69	-39.11	-25.00	-14.11	Horizontal
10140.00	-49.48	11.62	1.94	-39.80	-25.00	-14.80	Horizontal
Highest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
5120.00	-43.45	12.93	1.00	-31.52	-25.00	-6.52	Vertical
7680.00	-49.48	11.28	1.72	-39.92	-25.00	-14.92	Vertical
10240.00	-49.58	11.56	1.95	-39.97	-25.00	-14.97	Vertical
5120.00	-48.71	12.93	1.00	-36.78	-25.00	-11.78	Horizontal
7680.00	-48.50	11.28	1.72	-38.94	-25.00	-13.94	Horizontal
10240.00	-49.79	11.56	1.95	-40.18	-25.00	-15.18	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.							

6.6 Frequency stability V.S. Temperature measurement

Test Requirement:	Part 22.355, Part 24.235, Part 27.54, Part 2.1055(a)(1)(b)
Test Method:	ANSI/TIA-603-D 2010
Limit:	± 2.5 ppm for band 5 within authorized band for band 2 and 4 and 7
Test setup:	
Test procedure:	1. The equipment under test was connected to an external DC power supply and input rated voltage. 2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. 5. Turn EUT off and set the chamber temperature to –30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. 6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Refer to the FCC ID: ZSW-30-092, Report No.: CCISE190712902.

6.7 Frequency stability V.S. Voltage measurement

Test Requirement:	Part 22.355, Part 24.235, Part 27.54, Part 2.1055(d)(2)
Test Method:	ANSI/TIA-603-D 2010
Limit:	$\pm 2.5\text{ppm}$ for band 5 within authorized band for band 2 and 4 and 7
Test setup:	
Test procedure:	1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. 2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. 3. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Refer to the FCC ID: ZSW-30-092, Report No.: CCISE190712902.

8 EUT Constructional Details

Reference to the test report No. JYTSZE201201301.

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