



SZEMC-TRF-01 Rev A/1

Report No.: SZCR250300111203 Page: 1 of 29

# TEST REPORT

**Application No.:** SZCR2503001112AT

Applicant: Vanstone Electronic (Beijing) Co., Ltd.

3F No.2 Building, Aisino corporation park 18A, Xingshikou Road, Haidian District, Beijing, 100195 China Address of Applicant:

Manufacturer: Vanstone Electronic (Beijing) Co., Ltd.

3F No.2 Building, Aisino corporation park 18A, Xingshikou Road, Haidian Address of Manufacturer:

District, Beijing, 100195 China

**Equipment Under Test (EUT):** 

**EUT Name:** SoundBox Model No.: Q181 mini Trade Mark: Aisino FCC ID: OWLQ181-MINI-A 47 CFR Part 2 Standard(s):

> 47 CFR Part 22 47 CFR Part 24 47 CFR Part 27

2025-03-24 Date of Receipt:

2025-03-27 to 2025-04-03 Date of Test:

2025-04-08 Date of Issue:

**Pass Test Result:** 

Keny Xu **EMC Laboratory Manager** 



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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-04-08		Original

Authorized for issue by:		
	Calvin Weng	
	Calvin Weng/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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## 2 Test Summary

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Output Power Data	§2.1046 §22.913 §24.232 §27.50(d) §27.50(h)	ERP≤ 7W(LTE Band 5) EIRP≤ 2W(LTE Band 2) EIRP≤ 1W(LTE Band 4,66) EIRP≤ 2W(LTE Band 7,38,41)	PASS
Peak-Average Ratio	§22.913 §24.232 §27.50(d)	≤13dB	PASS
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	\$2.1051 \$22.917 \$24.238 \$27.50(h) \$27.50(m)	≤ -13dBm (LTE Band5) ≤ -13dBm (LTE Band2) ≤ -13dBm (LTE Band4,66) Refer to clause 6.4 for LTE Band7,38,41	PASS
Spurious emissions at antenna terminals	\$2.1051 \$22.917 \$24.238 \$27.50(h) \$27.50(m)	≤ -13dBm (LTE Band5) ≤ -13dBm (LTE Band2) ≤ -13dBm (LTE Band4,66) Refer to clause 6.5 for LTE Band7,38,41	PASS
Field strength of spurious radiation	\$2.1051 \$22.917 \$24.238 \$27.50(h) \$27.50(m)	≤ -13dBm (LTE Band5) ≤ -13dBm (LTE Band2) ≤ -13dBm (LTE Band4,66) Refer to clause 6.6 for LTE Band7,38,41	PASS
Frequency stability	§2.1055 §22.355 §24.235 §27.54	≤ ±2.5ppm.	PASS



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	DC3.7V by Li-ion battery(2000mAh) Battery M/N:18650 2000mAh
	Battery Manufacturer: MEI ZHOU BO FU NENG TECHNOLOGY CO.,LTD
	Recharge by AC/DC Power adapter
	Adapter M/N:SW-0018C
	Adapter Input: AC100-240V, 50/60Hz, 0.2A
	Adapter Output: DC5V/1A
Cable(s):	USB Type C cable: 0.6m unshielded cable without ferrite core
Sample Type:	Portable production
LTE Operation Frequency Band:	LTE B2/4/5/7/38/41/66
Modulation Type:	QPSK, 16QAM
LTE Power Class:	Level 3
Antenna Type:	PIFA Antenna
Antenna Gain:	LTE b2:1.11dBi, b4: -2.5dBi, b5: -3.23dBi, b7: 0.28dBi, b38: 1.05dBi,b41: 1.05dBi, b66: -2.5dBi

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### 4.2 Test Frequency

	Nominal		RF Channel	
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)
	(MHz)	MHz	MHz	MHz
	1.4	1850.7	1880	1909.3
	3	1851.5	1880	1908.5
LTE FDD	5	1852.5	1880	1907.5
Band 2	10	1855.0	1880	1905.0
	15	1857.5	1880	1902.5
	20	1860.0	1880	1900.0
	Nominal		RF Channel	
Test mode:	Bandwidth (MHz)	Low (L)	Middle (M)	High (H)
	(IVITIZ)	MHz	MHz	MHz
	1.4	1710.7	1732.5	1754.3
	3	1711.5	1732.5	1751.5
LTE FDD	5	1712.5	1732.5	1752.5
Band 4	10	1715.0	1732.5	1750.0
	15	1717.5	1732.5	1747.5
	20	1720.0	1732.5	1745.0
	Nominal	RF Channel		
Test mode:	Bandwidth (MHz)	Low (L)	Middle (M)	High (H)
	(1411 12)	MHz	MHz	MHz
	1.4	824.7	836.5	848.3
LTE FDD	3	825.5	836.5	847.5
Band 5	5	826.5	836.5	846.5
	10	829.0	836.5	844.0
	Nominal	RF Channel		
Test mode:	Bandwidth (MHz)	Low (L)	Middle (M)	High (H)
	(1411 12)	MHz	MHz	MHz
	5	2502.5	2535.0	2567.5
LTE FDD	10	2505.0	2535.0	2565.0
Band 7	15	2507.5	2535.0	2562.5
	20	2510.0	2535.0	2560.0



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	Nominal		RF Channel	
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)
	(MHz)	MHz	MHz	MHz
	5	2572.5	2595.0	2617.5
LTE FDD	10	2575.0	2595.0	2615.0
Band 38	15	2577.5	2595.0	2612.5
	20	2580.0	2595.0	2610.0
	Nominal		RF Channel	
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)
	(MHz)	MHz	MHz	MHz
	5	2498.5	2593.0	2687.5
LTE FDD	10	2501.0	2593.0	2685.0
Band 41	15	2503.5	2593.0	2682.5
	20	2506.0	2593.0	2680.0
	Nominal		RF Channel	
Test mode:	Bandwidth (MHz)	Low (L)	Middle (M)	High (H)
	(IVITIZ)	MHz	MHz	MHz
	1.4	1710.7	1745.0	1779.3
	3	1711.5	1745.0	1778.5
LTE FDD	5	1712.5	1745.0	1777.5
Band 66	10	1715.0	1745.0	1775.0
	15	1717.5	1745.0	1772.5
	20	1720.0	1745.0	1770.0



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#### 4.3 Test Environment

Environment Parameter	Selected Values During Tests	
	TL	-30°C
Temperature:	TN	+20°C
	TH	+50°C
	VL	3.4 Vdc
Voltage:	VN	3.7 Vdc
	VH	4.2 Vdc

NOTE: VL= lower extreme test voltage

VN= nominal voltage

VH= upper extreme test voltage
TL= lower extreme test temperature

TN= normal temperature

TH= upper extreme test temperature

### 4.4 Description of Support Units

Description	Manufacturer	Model No.	Serial No.

### 4.5 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 5.4 x 10 <sup>-8</sup>
2	Duty cycle	± 0.3%
3	Occupied Bandwidth	± 3%
4	RF conducted power	± 0.8dB
5	RF power density	± 0.4dB
6	Conducted Spurious emissions	± 2.7dB
7	Dedicted Courieus emission test	± 3.1dB (Below 1GHz)
/	Radiated Spurious emission test	± 4.4dB (Above 1GHz)
8	Temperature test	± 1°C
9	Humidity test	± 3%
10	Supply voltages	± 1.5%
11	Time	± 3%



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#### 4.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

#### 4.7 Test Facility

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

#### • A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### • FCC -Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

#### • Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

#### 4.8 Deviation from Standards

None

### 4.9 Abnormalities from Standard Conditions

None



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#### 5 **Equipment List**

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2024-07-10	2025-07-09
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2025-02-26	2026-02-25
MXA Signal Analyzer	KEYSIGHT	N9020B	SEM004-24	2025-03-03	2026-03-02
Measurement Software	TST	TST PASS V2.0	N/A	N/A	N/A
Attenuator	Huber+Suhner	6620_SMA- 50-1	SEM021-09	2025-03-03	2026-03-02
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2025-03-03	2026-03-02
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2025-02-26	2026-02-25
Power Sensor	KEYSIGHT	U2021XA	SEM009-15	2025-03-19	2026-03-18

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M- 048	2025-01-07	2026-01-06
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M- 050	2025-01-07	2026-01-06
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M- 055	2023-12-21	2025-12-20
RSE Test Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C- 063	2025-01-06	2028-01-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2023-09-17	2025-09-16
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2025-03-21	2026-03-20
Substitution Antenna	Rohde & Schwarz	HF907	SEM003-06	2024-08-03	2025-08-02
Substitution Antenna	ETS-LINDGREN	3160-09	SEM003-12	2024-08-03	2025-08-02
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2025-03-03	2026-03-02
Universal Radio Communication Tester	Anritsu	MT8000A	SEM010-10	2025-03-04	2026-03-03



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General used equipment											
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date						
Humidity- Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23						
Humidity- Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23						
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03	2026-03-02						



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## **Radio Spectrum Matter Test Results**

### 6.1 Effective (Isotropic) Radiated Output Power Data

§2.1046, §22.913,§24.232,§27.50(d),§27.50(h) Test Requirement: Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

ERP≤ 7W(LTE Band 5) Limit:

> EIRP≤ 2W(LTE Band 2) EIRP≤ 1W(LTE Band 4,66) EIRP≤ 2W(LTE Band 7,38,41)

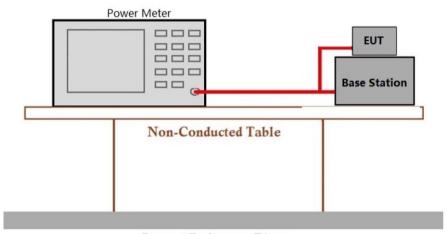
#### 6.1.1 E.U.T. Operation

**Operating Environment:** 

Temperature: Humidity: 49.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode\_Keep the EUT in transmitting mode

### 6.1.2 Test Setup Diagram



Ground Reference Plane

#### 6.1.3 Measurement Data

Please refer to Appendix for LTE test data.



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### 6.2 Peak-Average Ratio

Test Requirement: §22.913, §24.232, §27.50(d)

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: ≤13dB

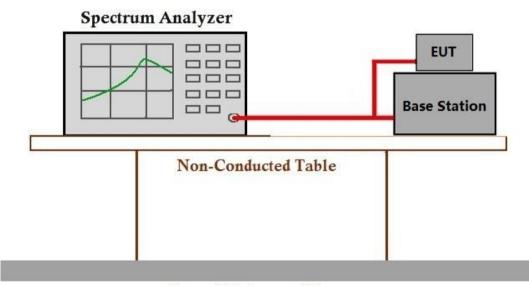
#### 6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 49.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode\_Keep the EUT in transmitting mode

#### 6.2.2 Test Setup Diagram



Ground Reference Plane

#### 6.2.3 Measurement Data

Please refer to Appendix for LTE test data.



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#### 6.3 Bandwidth

Test Requirement: §2.1049(h)

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: **OBW: No limit** 

EBW: No limit

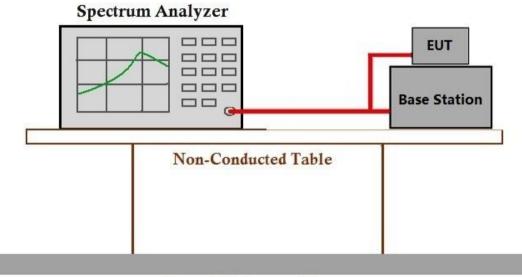
#### 6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 49.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode Keep the EUT in transmitting mode

#### 6.3.2 Test Setup Diagram



Ground Reference Plane

#### 6.3.3 Measurement Data

Please refer to Appendix for LTE test data.



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### 6.4 Band Edge Compliance

§2.1051,§22.917, §22.917, §24.238, §27.50(h), §27.50(m) Test Requirement:

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

≤ -13dBm (**LTE Band2,4,5,66**) Limit:

For **Band7.38.41**:

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. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

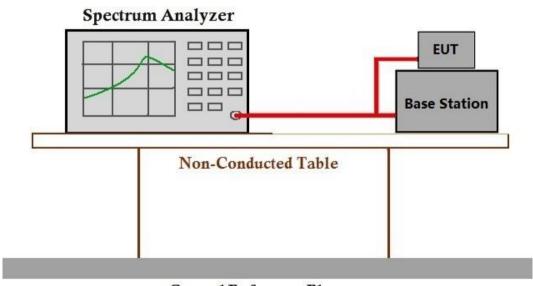
#### 6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 49.5 % RH Atmospheric Pressure: 1020 mbar

32: TX mode\_Keep the EUT in transmitting mode Test mode

#### 6.4.2 Test Setup Diagram



Ground Reference Plane

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057

#### 6.4.3 Measurement Data

Please refer to Appendix for LTE test data.



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### 6.5 Spurious emissions at antenna terminals

§2.1051,§22.917, §22.917, §24.238, §27.50(h), §27.50(m) Test Requirement:

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

≤ -13dBm (**LTE Band2,4,5,66**) Limit:

For **Band7.38.41**:

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. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

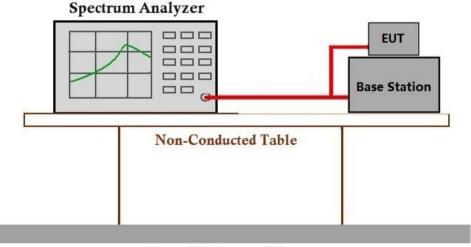
#### 6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C 49.5 % RH Atmospheric Pressure: 1020 mbar Humidity:

Test mode 32: TX mode Keep the EUT in transmitting mode

### 6.5.2 Test Setup Diagram



Ground Reference Plane

#### 6.5.3 Measurement Data

Please refer to Appendix for LTE test data.



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### 6.6 Field strength of spurious radiation

Test Requirement: §2.1051,§22.917, §24.238, §27.50(h), §27.50(m)
Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: ≤ -13dBm (**LTE Band2,4,5,66**)

For Band7,38,41:

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. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as

adjacent channel BRS or EBS licensees.

#### 6.6.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 49.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode Keep the EUT in transmitting mode



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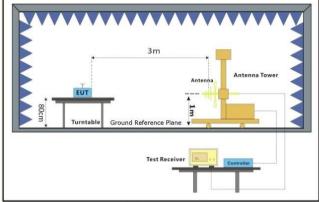


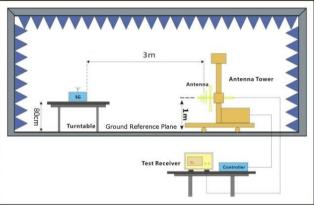
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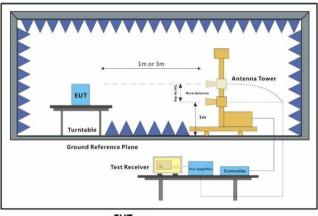
### 6.6.2 Test Setup Diagram

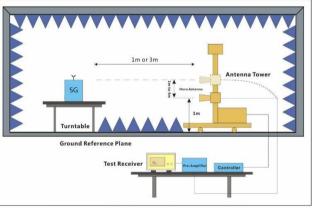




EUT

Substiute Antenna+Signal Generator





EUT

Substiute Antenna+Signal Generator



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#### 6.6.3 Measurement Procedure and Data

#### Test Procedure:

- (1)On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4)The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6)The transmitter shall than be rotated through 360 in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7)The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11) The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13)If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14)The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15)The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- (16) The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- (17)The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.



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	LTE Band	2-Low ch	annel, Mod	dulation: Q	PSK, Ban	dwidth:20N	1Hz, 1RB#0	
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3702.0	-56.63	-13	-43.63	-61.65	3.42	8.44	Horizontal	Pass
5553.0	-51.67	-13	-38.67	-57.88	4.24	10.45	Horizontal	Pass
7404.0	-51.77	-13	-38.77	-59.18	4.21	11.62	Horizontal	Pass
3702.0	-55.75	-13	-42.75	-60.77	3.42	8.44	Vertical	Pass
5553.0	-51.8	-13	-38.8	-58.01	4.24	10.45	Vertical	Pass
7404.0	-49.89	-13	-36.89	-57.3	4.21	11.62	Vertical	Pass

L	LTE Band 2-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0												
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result					
3742.0	-55.29	-13	-42.29	-60.33	3.45	8.49	Horizontal	Pass					
5613.0	-51.83	-13	-38.83	-58.04	4.24	10.45	Horizontal	Pass					
7484.0	-51.91	-13	-38.91	-59.41	4.22	11.72	Horizontal	Pass					
3742.0	-55.71	-13	-42.71	-60.75	3.45	8.49	Vertical	Pass					
5613.0	-52.83	-13	-39.83	-59.04	4.24	10.45	Vertical	Pass					
7484.0	-51.85	-13	-38.85	-59.35	4.22	11.72	Vertical	Pass					

	LTE Band 2-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0												
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result					
3782.0	-55.57	-13	-42.57	-60.64	3.48	8.55	Horizontal	Pass					
5673.0	-52.86	-13	-39.86	-59.08	4.23	10.45	Horizontal	Pass					
7564.0	-52.18	-13	-39.18	-59.78	4.22	11.82	Horizontal	Pass					
3782.0	-55.54	-13	-42.54	-60.61	3.48	8.55	Vertical	Pass					
5673.0	-52.68	-13	-39.68	-58.9	4.23	10.45	Vertical	Pass					
7564.0	-52.56	-13	-39.56	-60.16	4.22	11.82	Vertical	Pass					



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	LTE Band 4-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
3422.0	-55.32	-13	-42.32	-60.06	3.24	7.98	Horizontal	Pass				
5133.0	-51.01	-13	-38.01	-56.98	4.25	10.22	Horizontal	Pass				
6844.0	-52.72	-13	-39.72	-59.46	4.19	10.93	Horizontal	Pass				
3422.0	-54.62	-13	-41.62	-59.36	3.24	7.98	Vertical	Pass				
5133.0	-51.39	-13	-38.39	-57.36	4.25	10.22	Vertical	Pass				
6844.0	-51.62	-13	-38.62	-58.36	4.19	10.93	Vertical	Pass				

L	LTE Band 4-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0												
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result					
3447.0	-54.5	-13	-41.5	-59.28	3.26	8.04	Horizontal	Pass					
5170.5	-50.97	-13	-37.97	-56.97	4.25	10.25	Horizontal	Pass					
6894.0	-51.86	-13	-38.86	-58.66	4.19	10.99	Horizontal	Pass					
3447.0	-55.2	-13	-42.2	-59.98	3.26	8.04	Vertical	Pass					
5170.5	-51.52	-13	-38.52	-57.52	4.25	10.25	Vertical	Pass					
6894.0	-52.07	-13	-39.07	-58.87	4.19	10.99	Vertical	Pass					

	LTE Band 4-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
3472.0	-55.24	-13	-42.24	-60.07	3.27	8.1	Horizontal	Pass				
5208.0	-51.64	-13	-38.64	-57.66	4.25	10.27	Horizontal	Pass				
6944.0	-51.69	-13	-38.69	-58.56	4.19	11.06	Horizontal	Pass				
3472.0	-55.05	-13	-42.05	-59.88	3.27	8.1	Vertical	Pass				
5208.0	-52.09	-13	-39.09	-58.11	4.25	10.27	Vertical	Pass				
6944.0	-51.75	-13	-38.75	-58.62	4.19	11.06	Vertical	Pass				



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	LTE Band 5-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0												
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result					
1649.0	-64.08	-13	-51.08	-67.48	2.1	5.5	Horizontal	Pass					
2473.5	-59.77	-13	-46.77	-62.89	2.64	5.76	Horizontal	Pass					
3298.0	-54.95	-13	-41.95	-59.45	3.16	7.66	Horizontal	Pass					
1649.0	-63.01	-13	-50.01	-66.41	2.1	5.5	Vertical	Pass					
2473.5	-60.49	-13	-47.49	-63.61	2.64	5.76	Vertical	Pass					
3298.0	-55.45	-13	-42.45	-59.95	3.16	7.66	Vertical	Pass					

L	LTE Band 5-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0												
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result					
1664.0	-63.47	-13	-50.47	-66.83	2.11	5.47	Horizontal	Pass					
2496.0	-59.27	-13	-46.27	-62.42	2.66	5.81	Horizontal	Pass					
3328.0	-55.1	-13	-42.1	-59.66	3.18	7.74	Horizontal	Pass					
1664.0	-63.67	-13	-50.67	-67.03	2.11	5.47	Vertical	Pass					
2496.0	-59.39	-13	-46.39	-62.54	2.66	5.81	Vertical	Pass					
3328.0	-54.71	-13	-41.71	-59.27	3.18	7.74	Vertical	Pass					

LTE Band 5-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result		
1679.0	-62.39	-13	-49.39	-65.69	2.13	5.43	Horizontal	Pass		
2518.5	-59.65	-13	-46.65	-62.84	2.67	5.86	Horizontal	Pass		
3358.0	-55.16	-13	-42.16	-59.78	3.2	7.82	Horizontal	Pass		
1679.0	-63.95	-13	-50.95	-67.25	2.13	5.43	Vertical	Pass		
2518.5	-58.59	-13	-45.59	-61.78	2.67	5.86	Vertical	Pass		
3358.0	-54.72	-13	-41.72	-59.34	3.2	7.82	Vertical	Pass		



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LTE Band 7-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
5002.0	-51.21	-25	-26.21	-57.09	4.26	10.14	Horizontal	Pass			
7503.0	-52.48	-25	-27.48	-60.0	4.22	11.74	Horizontal	Pass			
10004.0	-51.01	-25	-26.01	-58.96	5.08	13.03	Horizontal	Pass			
5002.0	-51.92	-25	-26.92	-57.8	4.26	10.14	Vertical	Pass			
7503.0	-52.3	-25	-27.3	-59.82	4.22	11.74	Vertical	Pass			
10004.0	-51.01	-25	-26.01	-58.96	5.08	13.03	Vertical	Pass			

L	LTE Band 7-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
5052.0	-50.66	-25	-25.66	-56.57	4.26	10.17	Horizontal	Pass				
7578.0	-52.28	-25	-27.28	-59.89	4.22	11.83	Horizontal	Pass				
10104.0	-51.23	-25	-26.23	-59.2	5.08	13.05	Horizontal	Pass				
5052.0	-52.02	-25	-27.02	-57.93	4.26	10.17	Vertical	Pass				
7578.0	-52.14	-25	-27.14	-59.75	4.22	11.83	Vertical	Pass				
10104.0	-51.41	-25	-26.41	-59.38	5.08	13.05	Vertical	Pass				

LTE Band 7-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result		
5102.0	-51.75	-25	-26.75	-57.69	4.26	10.2	Horizontal	Pass		
7653.0	-51.72	-25	-26.72	-59.41	4.23	11.92	Horizontal	Pass		
10204.0	-51.39	-25	-26.39	-59.38	5.08	13.07	Horizontal	Pass		
5102.0	-50.91	-25	-25.91	-56.85	4.26	10.2	Vertical	Pass		
7653.0	-51.51	-25	-26.51	-59.2	4.23	11.92	Vertical	Pass		
10204.0	-51.5	-25	-26.5	-59.49	5.08	13.07	Vertical	Pass		



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LTE Band 38-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result		
5162.0	-51.14	-25	-26.14	-57.13	4.25	10.24	Horizontal	Pass		
7743.0	-51.63	-25	-26.63	-59.43	4.23	12.03	Horizontal	Pass		
10324.0	-51.9	-25	-26.9	-59.91	5.08	13.09	Horizontal	Pass		
5162.0	-51.35	-25	-26.35	-57.34	4.25	10.24	Vertical	Pass		
7743.0	-51.92	-25	-26.92	-59.72	4.23	12.03	Vertical	Pass		
10324.0	-52.13	-25	-27.13	-60.14	5.08	13.09	Vertical	Pass		

L	LTE Band 38-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
5172.0	-50.64	-25	-25.64	-56.64	4.25	10.25	Horizontal	Pass				
7758.0	-51.91	-25	-26.91	-59.72	4.23	12.04	Horizontal	Pass				
10344.0	-52.46	-25	-27.46	-60.47	5.08	13.09	Horizontal	Pass				
5172.0	-52.71	-25	-27.71	-58.71	4.25	10.25	Vertical	Pass				
7758.0	-52.42	-25	-27.42	-60.23	4.23	12.04	Vertical	Pass				
10344.0	-51.15	-25	-26.15	-59.16	5.08	13.09	Vertical	Pass				

LTE Band 38-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result		
5182.0	-52.17	-25	-27.17	-58.17	4.25	10.25	Horizontal	Pass		
7773.0	-53.07	-25	-28.07	-60.9	4.23	12.06	Horizontal	Pass		
10364.0	-51.99	-25	-26.99	-60.01	5.08	13.1	Horizontal	Pass		
5182.0	-52.18	-25	-27.18	-58.18	4.25	10.25	Vertical	Pass		
7773.0	-53.03	-25	-28.03	-60.86	4.23	12.06	Vertical	Pass		
10364.0	-52.31	-25	-27.31	-60.33	5.08	13.1	Vertical	Pass		



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LTE Band 41-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result		
4994.0	-51.65	-25	-26.65	-57.52	4.26	10.13	Horizontal	Pass		
7491.0	-51.42	-25	-26.42	-58.93	4.22	11.73	Horizontal	Pass		
9988.0	-50.36	-25	-25.36	-58.33	5.07	13.04	Horizontal	Pass		
4994.0	-51.74	-25	-26.74	-57.61	4.26	10.13	Vertical	Pass		
7491.0	-51.2	-25	-26.2	-58.71	4.22	11.73	Vertical	Pass		
9988.0	-51.16	-25	-26.16	-59.13	5.07	13.04	Vertical	Pass		

L	LTE Band 41-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0											
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
5168.0	-51.46	-25	-26.46	-57.45	4.25	10.24	Horizontal	Pass				
7752.0	-52.43	-25	-27.43	-60.24	4.23	12.04	Horizontal	Pass				
10336.0	-52.05	-25	-27.05	-60.06	5.08	13.09	Horizontal	Pass				
5168.0	-51.74	-25	-26.74	-57.73	4.25	10.24	Vertical	Pass				
7752.0	-52.74	-25	-27.74	-60.55	4.23	12.04	Vertical	Pass				
10336.0	-51.86	-25	-26.86	-59.87	5.08	13.09	Vertical	Pass				

LTE Band 41-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result		
5342.0	-52.09	-25	-27.09	-58.19	4.25	10.35	Horizontal	Pass		
8013.0	-52.04	-25	-27.04	-60.15	4.24	12.35	Horizontal	Pass		
10684.0	-51.86	-25	-26.86	-59.96	5.08	13.18	Horizontal	Pass		
5342.0	-52.32	-25	-27.32	-58.42	4.25	10.35	Vertical	Pass		
8013.0	-52.06	-25	-27.06	-60.17	4.24	12.35	Vertical	Pass		
10684.0	-50.89	-25	-25.89	-58.99	5.08	13.18	Vertical	Pass		



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	LTE Band 66-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
3423.4	-54.87	-13	-41.87	-59.61	3.24	7.98	Horizontal	Pass			
5135.1	-52.25	-13	-39.25	-58.22	4.25	10.22	Horizontal	Pass			
6846.8	-51.15	-13	-38.15	-57.89	4.19	10.93	Horizontal	Pass			
3423.4	-54.16	-13	-41.16	-58.9	3.24	7.98	Vertical	Pass			
5135.1	-52.47	-13	-39.47	-58.44	4.25	10.22	Vertical	Pass			
6846.8	-51.33	-13	-38.33	-58.07	4.19	10.93	Vertical	Pass			

L	LTE Band 66-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0										
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
3472.0	-55.01	-13	-42.01	-59.84	3.27	8.1	Horizontal	Pass			
5208.0	-51.66	-13	-38.66	-57.68	4.25	10.27	Horizontal	Pass			
6944.0	-51.53	-13	-38.53	-58.4	4.19	11.06	Horizontal	Pass			
3472.0	-55.55	-13	-42.55	-60.38	3.27	8.1	Vertical	Pass			
5208.0	-52.47	-13	-39.47	-58.49	4.25	10.27	Vertical	Pass			
6944.0	-51.34	-13	-38.34	-58.21	4.19	11.06	Vertical	Pass			

LTE Band 66-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3520.6	-54.76	-13	-41.76	-59.66	3.3	8.2	Horizontal	Pass
5280.9	-52.44	-13	-39.44	-58.5	4.25	10.31	Horizontal	Pass
7041.2	-52.19	-13	-39.19	-59.18	4.19	11.18	Horizontal	Pass
3520.6	-53.55	-13	-40.55	-58.45	3.3	8.2	Vertical	Pass
5280.9	-53.26	-13	-40.26	-59.32	4.25	10.31	Vertical	Pass
7041.2	-51.88	-13	-38.88	-58.87	4.19	11.18	Vertical	Pass

Note: All modes have been tested and we found QPSK test mode has the worst test result. Only record the worst test result.



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### 6.7 Frequency stability

§2.1055,§22.355,§24.235,§27.54 Test Requirement:

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: ≤ ±2.5ppm.

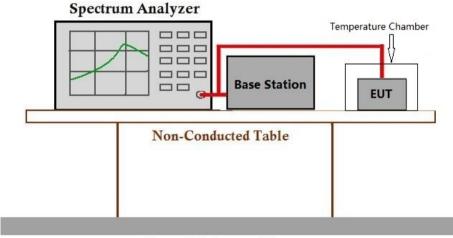
#### 6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C 49.5 % RH Atmospheric Pressure: 1020 mbar Humidity:

Test mode 32: TX mode Keep the EUT in transmitting mode

#### 6.7.2 Test Setup Diagram



**Ground Reference Plane** 

#### 6.7.3 Measurement Data

Please refer to Appendix for LTE test data.



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to the fullest extent on the law. Offices only in the sample(s) are retained for 30 days only.

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#### 7 **Test Setup Photo**

Refer to Appendix - Test Setup Photo for SZCR2503001112AT

#### **EUT Constructional Details (EUT Photos)** 8

Refer to Appendix - External and Internal Photos for SZCR2503001112AT

- End of the Report -



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