

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230600188809 Page: 1 of 27

# TEST REPORT

**Application No.:** SZCR2306001888AT

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

3F No.2 Building, Aisino Corporation Park 18A, Xingshikou Road, Haidian District, Beijing, China 100195 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, China 100195

**Equipment Under Test (EUT):** 

**EUT Name:** Android POS Terminal

Model No.: A99 FCC ID: OWLA99

47 CFR Part 2 Standard(s): 47 CFR Part 22 subpart H

47 CFR Part 24 subpart E 47 CFR Part 27 subpart C

Date of Receipt: 2023-06-16

2023-06-20 to 2023-07-18 Date of Test:

2023-07-22 Date of Issue:

**Pass Test Result:** 

**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	Version Chapter Date Modifier Rem					
01		2023-07-22		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) EIRP≤ 2W(LTE Band 7,38)	PASS
Peak-Average Ratio	§22.913 §24.232 §27.50(d)	≤13dB	PASS
Modulation Characteristics	§2.1047	Digital modulation	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) Refer to clause 6.4 for LTE Band7,38	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) Refer to clause 6.5 for LTE Band7,38	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) Refer to clause 6.6 for LTE Band7,38	PASS
Frequency stability	§2.1055 §22.355 §24.235 §27.54	≤ ±2.5ppm.	PASS



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#### **General Information** 4

## 4.1 Details of E.U.T.

DC7.6V by li-ion battery(2600mAh) Power supply:

Battery M/N:BT-991

Battery Manufacture: Zhuhai Greaton Electronic Technology

Co.,Ltd.

Recharged by AC/DC adapter

Adapter M/N:SW-0983

Adapter Input: AC100-240V, 50/60Hz, 0.5A

Adapter Output: DC5V/2A

Cable(s): USB type C cable: 1.5m unshielded cable without ferrite core

Sample Type: Portable production

LTE Operation Frequency Band: LTE FDD Band 2,4,5,7,38

Modulation Type: QPSK, 16QAM

LTE Power Class: Level 3

Antenna Type: PIFA Antenna

LTE B2: 3.06 dBi; B4: 3.24 dBi; B5:0.2 dBi; B7: 3.9 dBi; Antenna Gain:

B38: 3.97dBi

This device has dual SIM Card sockets. Both the SIM sockets SIM Card:

have been tested. SIM1 was worst case, only record SIM1.

### 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	Low (L)	Middle (M)	High (H)
	(MHz)	MHz	MHz	MHz
	1.4	1710.7	1732.5	1754.3
LTE FDD Band 4	3	1711.5	1732.5	1751.5
	5	1712.5	1732.5	1752.5
	10	1715.0	1732.5	1750.0



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	15	1717.5	1732.5	1747.5
	20	1720.0	1732.5	1745.0
	Nominal		RF Channel	
Test mode:	Bandwidth	Low (L)	Middle (M)	High (H)
	(MHz)	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)
		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
	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 Band 38	10	2575.0	2595.0	2615.0
	15	2577.5	2595.0	2612.5
	20	2580.0	2595.0	2610.0

## 4.3 Test Environment

Environment Parameter	Selected Values During Tests			
	TL	-30°C		
Temperature:	TN	+20°C		
	TH	+50°C		
	VL	6.46 Vdc		
Voltage:	VN	7.6 Vdc		
	VH	8.74 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



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## 4.4 Description of Support Units

The EUT has been tested independent unit.

## 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	Radiated Spurious emission test	± 3.1dB (Below 1GHz)
/	Radiated Spurious errission 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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# **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	2022/07/12 2023/07/11	2023/07/11 2024/07/10
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023/03/21	2024/03/20
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2022/07/12 2023/07/11	2023/07/11 2024/07/10
Measurement Software	TST	TST PASS V2.0	N/A	N/A	N/A
Attenuator	Huber+Suhner	6620_SMA- 50-1	SEM021-09	2022/07/12 2023/07/11	2023/07/11 2024/07/10
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2023/03/28	2024/03/27
Power Sensor	KEYSIGHT	U2021XA	SEM009-15	2023/03/21	2024/03/20

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/07/12 2023/07/11	2023/07/11 2024/07/10
Pre-amplifier	HP	8447D	SEM005-02	2022/07/12 2023/07/11	2023/07/11 2024/07/10
Spectrum Analyzer	Rohde & Schwarz	101288	SEM004-08	2022/07/12 2023/07/11	2023/07/11 2024/07/10
Low Noise Amplifier	CLAVIIO	BDLNA-0118- 352810	SEM005-05	2022/07/12 2023/07/11	2023/07/11 2024/07/10
Substitution Antenna	Schwarzbeck	VULB9168	SEM003-18	2022/08/07	2025/08/06
Signal Generator(9kHz- 40GHz)	N5173B	MY53270267	Agilent	2022/07/12 2023/07/11	2023/07/11 2024/07/10
Pre-amplifier	HP	8447D	SEM005-02	2022/07/12 2023/07/11	2023/07/11 2024/07/10
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24



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	1	•			_
Spectrum Analyzer	Rohde & Schwarz	101288	SEM004-08	2022/07/12 2023/07/11	2023/07/11 2024/07/10
				2020/01/11	2024/01/10
Low Noise Amplifier	CLAVIIO	BDLNA-0118-	SEM005-05	2022/07/12	2023/07/11
Low Noise Ampliner	CLAVIIO	352810	3LIVI003-03	2023/07/11	2024/07/10
5	Compliance	D.D. 00.10. =0	0514005.00	2022/07/12	2023/07/11
Pre-amplifier	Directions Systems Inc.	PAP-2640-50	SEM005-08	2023/07/11	2024/07/10
D	Dalada 0 Oakoos	0114411050	OFM005 47	2022/07/12	2023/07/11
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2023/07/11	2024/07/10
Out of the Control And a second	ETO L'adama	04.400	OFM000 04	2020/06/26	2023/06/25
Substitution Antenna	ETS-Lindgren	3142C	SEM003-01	2023/06/25	202606/24
Universal Radio	Dalada 0 Oalassa	ONAL 500	0514040.00	2022/03/29	2023/03/28
Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2024/03/28	2024/03/27

General used equipment										
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date					
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2022/09/04	2023/09/03					
Humidity/ Temperature Indicator	Anymetre	TH101B	SEM002-09	2022/09/04	2023/09/03					
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023/03/23	2024/03/22					



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#### 6 **Radio Spectrum Matter Test Results**

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

Test Requirement: §2.1046,§22.913,§24.232,§27.50(d),§27.50(h) 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) EIRP≤ 2W(LTE Band 7,38)

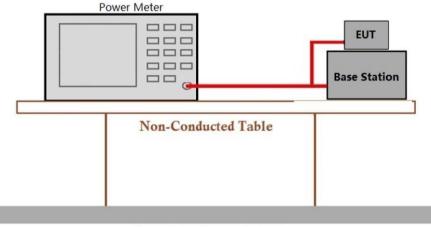
### 6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % 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

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

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

I imit: ≤13dB

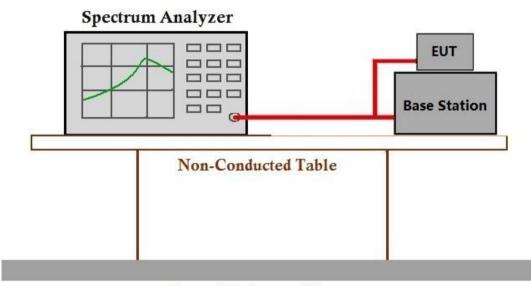
## 6.2.1 E.U.T. Operation

Operating Environment:

53.5 % RH Atmospheric Pressure: 1020 mbar Temperature: 21.5 °C Humidity:

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

I imit: **OBW:** No limit

EBW: No limit

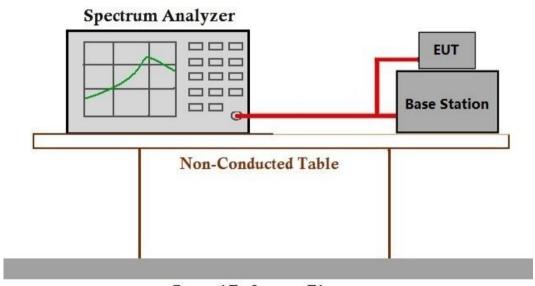
### 6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % 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

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**)

For **Band7,38**:

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.

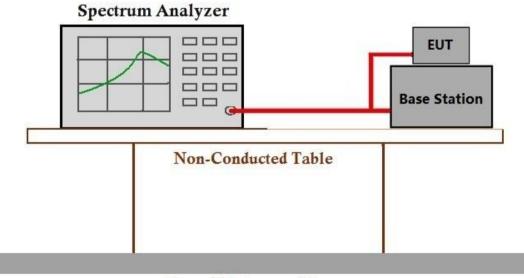
#### 6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

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

### 6.4.2 Test Setup Diagram



Ground Reference Plane

## 6.4.3 Measurement Data

Please refer to Appendix for LTE test data.



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### 6.5 Spurious emissions at antenna terminals

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)

For **Band7,38**:

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.

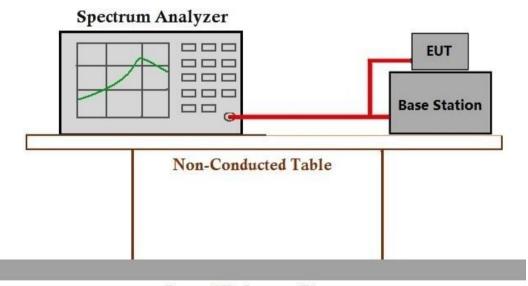
## 6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

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:  $\leq$  -13dBm (LTE Band2,4,5)

For **Band7,38**:

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: 22.5 °C Humidity: 47.5 % RH Atmospheric Pressure: 1020 mbar

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



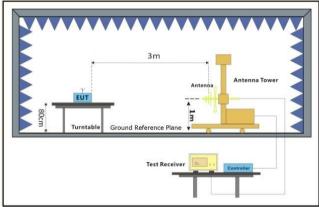
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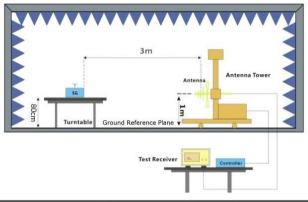


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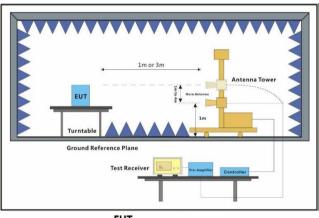
## 6.6.2 Test Setup Diagram

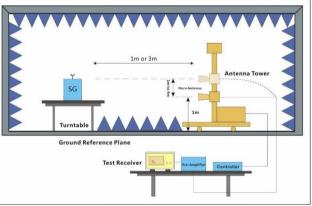




EUT

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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	FDD I	TE Band2-Lo	w channel, Mo	dulation: (	QPSK, Band	width: 20MH	Hz, 1 RB0	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3700.14	-54.65	-13	-41.65	-61.54	0.71	7.6	Horizontal	Pass
5550.21	-52.71	-13	-39.71	-62.16	0.85	10.3	Horizontal	Pass
7400.28	-50.5	-13	-37.5	-62.4	1	12.9	Horizontal	Pass
3700.14	-55.47	-13	-42.47	-62.36	0.71	7.6	Vertical	Pass
5550.21	-53.73	-13	-40.73	-63.18	0.85	10.3	Vertical	Pass
7400.28	-50.14	-13	-37.14	-62.04	1	12.9	Vertical	Pass

	FDD L	ΓΕ Band2-Midd	dle channel, M	lodulation:	QPSK, Bai	ndwidth: 20M	IHz, 1 RB0	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3758.74	-55.26	-13	-42.26	-62.15	0.71	7.6	Horizontal	Pass
5638.11	-53.58	-13	-40.58	-63.03	0.85	10.3	Horizontal	Pass
7517.48	-49.86	-13	-36.86	-62.07	0.99	13.2	Horizontal	Pass
3758.74	-55.4	-13	-42.4	-62.29	0.71	7.6	Vertical	Pass
5638.11	-52.6	-13	-39.6	-62.05	0.85	10.3	Vertical	Pass
7517.48	-49.66	-13	-36.66	-61.87	0.99	13.2	Vertical	Pass

	FDD LTE Band2-High channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0											
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result				
3817.34	-54.93	-13	-41.93	-61.82	0.71	7.6	Horizontal	Pass				
5726.01	-54.29	-13	-41.29	-63.74	0.85	10.3	Horizontal	Pass				
7634.68	-49.98	-13	-36.98	-62.19	0.99	13.2	Horizontal	Pass				
3817.34	-54.8	-13	-41.8	-61.69	0.71	7.6	Vertical	Pass				
5726.01	-54.52	-13	-41.52	-63.97	0.85	10.3	Vertical	Pass				
7634.68	-50.21	-13	-37.21	-62.42	0.99	13.2	Vertical	Pass				



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	FDD I	TE Band4-Lo	w channel, Mo	odulation: (	QPSK, Band	width: 20MF	Hz, 1 RB0	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3420.14	-55.6	-13	-42.6	-61.15	0.65	6.2	Horizontal	Pass
5130.21	-54.65	-13	-41.65	-63.43	0.82	9.6	Horizontal	Pass
6840.28	-51.97	-13	-38.97	-62.82	0.95	11.8	Horizontal	Pass
3420.14	-56.15	-13	-43.15	-61.7	0.65	6.2	Vertical	Pass
5130.21	-54.08	-13	-41.08	-62.86	0.82	9.6	Vertical	Pass
6840.28	-52.51	-13	-39.51	-63.36	0.95	11.8	Vertical	Pass

	FDD L1	ΓΕ Band4-Midd	dle channel, M	lodulation:	QPSK, Bai	ndwidth: 20M	IHz, 1 RB0	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3463.74	-56.68	-13	-43.68	-62.23	0.65	6.2	Horizontal	Pass
5195.61	-54.1	-13	-41.1	-62.88	0.82	9.6	Horizontal	Pass
6927.48	-53.05	-13	-40.05	-63.9	0.95	11.8	Horizontal	Pass
3463.74	-55.82	-13	-42.82	-61.37	0.65	6.2	Vertical	Pass
5195.61	-52.97	-13	-39.97	-61.75	0.82	9.6	Vertical	Pass
6927.48	-52.03	-13	-39.03	-62.88	0.95	11.8	Vertical	Pass

	FDD L	TE Band4-Hig	gh channel, Mo	odulation: (	QPSK, Band	dwidth: 20Ml	Hz, 1 RB0	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3507.34	-55.29	-13	-42.29	-62.18	0.71	7.6	Horizontal	Pass
5261.01	-54.3	-13	-41.3	-63.08	0.82	9.6	Horizontal	Pass
7014.68	-52.05	-13	-39.05	-63.95	1	12.9	Horizontal	Pass
3507.34	-56.55	-13	-43.55	-63.44	0.71	7.6	Vertical	Pass
5261.01	-54.1	-13	-41.1	-62.88	0.82	9.6	Vertical	Pass
7014.68	-51.53	-13	-38.53	-63.43	1	12.9	Vertical	Pass



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	FDD I	_TE Band5-Lo	w channel, Mo	odulation: (	QPSK, Band	width: 10MF	Hz, 1 RB0	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1648.14	-63.91	-13	-50.91	-69.39	0.52	6	Horizontal	Pass
2472.21	-61.09	-13	-48.09	-66.36	0.53	5.8	Horizontal	Pass
3296.28	-57.16	-13	-44.16	-62.71	0.65	6.2	Horizontal	Pass
1648.14	-64.98	-13	-51.98	-70.46	0.52	6	Vertical	Pass
2472.21	-60.77	-13	-47.77	-66.04	0.53	5.8	Vertical	Pass
3296.28	-57.12	-13	-44.12	-62.67	0.65	6.2	Vertical	Pass

	FDD L	ΓΕ Band5-Midd	dle channel, M	lodulation:	QPSK, Bai	ndwidth: 10M	IHz, 1 RB0	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1671.74	-63.49	-13	-50.49	-68.97	0.52	6	Horizontal	Pass
2507.61	-61.67	-13	-48.67	-66.38	0.59	5.3	Horizontal	Pass
3343.48	-56.01	-13	-43.01	-61.56	0.65	6.2	Horizontal	Pass
1671.74	-64.47	-13	-51.47	-69.95	0.52	6	Vertical	Pass
2507.61	-61.19	-13	-48.19	-65.9	0.59	5.3	Vertical	Pass
3343.48	-56.2	-13	-43.2	-61.75	0.65	6.2	Vertical	Pass

	FDD L	TE Band5-Hig	gh channel, Mo	odulation: (	QPSK, Band	lwidth: 10Ml	Hz, 1 RB0	
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1664	-63.95	-13	-50.95	-69.43	0.52	6	Horizontal	Pass
2496	-60.68	-13	-47.68	-65.95	0.53	5.8	Horizontal	Pass
3328	-55.54	-13	-42.54	-61.09	0.65	6.2	Horizontal	Pass
1664	-64.93	-13	-51.93	-70.41	0.52	6	Vertical	Pass
2496	-61.09	-13	-48.09	-66.36	0.53	5.8	Vertical	Pass
3328	-56.09	-13	-43.09	-61.64	0.65	6.2	Vertical	Pass



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	FDD LTE Band7-Low channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0										
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
5000.5	-53.57	-25	-28.57	-62.35	0.82	9.6	Horizontal	Pass			
7500.75	-50.62	-25	-25.62	-62.83	0.99	13.2	Horizontal	Pass			
10001	-48.9	-25	-23.9	-60.34	1.26	12.7	Horizontal	Pass			
5000.5	-53.82	-25	-28.82	-62.6	0.82	9.6	Vertical	Pass			
7500.75	-49.05	-25	-24.05	-61.26	0.99	13.2	Vertical	Pass			
10001	-47.72	-25	-22.72	-59.16	1.26	12.7	Vertical	Pass			

FDD LTE Band7-Middle channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0									
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result	
5065.5	-52.83	-25	-27.83	-61.61	0.82	9.6	Horizontal	Pass	
7598.25	-50.74	-25	-25.74	-62.95	0.99	13.2	Horizontal	Pass	
10131	-48	-25	-23	-59.44	1.26	12.7	Horizontal	Pass	
5065.5	-53.35	-25	-28.35	-62.13	0.82	9.6	Vertical	Pass	
7598.25	-50.33	-25	-25.33	-62.54	0.99	13.2	Vertical	Pass	
10131	-48.06	-25	-23.06	-59.5	1.26	12.7	Vertical	Pass	

	FDD LTE Band7-High channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0										
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
5130.5	-54.36	-25	-29.36	-63.14	0.82	9.6	Horizontal	Pass			
7695.75	-50.64	-25	-25.64	-62.85	0.99	13.2	Horizontal	Pass			
10261	-48.58	-25	-23.58	-60.02	1.26	12.7	Horizontal	Pass			
5130.5	-53.35	-25	-28.35	-62.13	0.82	9.6	Vertical	Pass			
7695.75	-51.96	-25	-26.96	-64.17	0.99	13.2	Vertical	Pass			
10261	-48.99	-25	-23.99	-60.43	1.26	12.7	Vertical	Pass			



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	FDD LTE Band38-Low channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0										
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
5142	-53.21	-25	-28.21	-61.99	0.82	9.6	Horizontal	Pass			
7713	-47.52	-25	-22.52	-59.73	0.99	13.2	Horizontal	Pass			
10284	-47.59	-25	-22.59	-59.03	1.26	12.7	Horizontal	Pass			
5142	-52.15	-25	-27.15	-60.93	0.82	9.6	Vertical	Pass			
7713	-48.33	-25	-23.33	-60.54	0.99	13.2	Vertical	Pass			
10284	-47.29	-25	-22.29	-58.73	1.26	12.7	Vertical	Pass			

FDD LTE Band38-Middle channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0									
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result	
5172	-52.98	-25	-27.98	-61.76	0.82	9.6	Horizontal	Pass	
7758	-50.28	-25	-25.28	-62.49	0.99	13.2	Horizontal	Pass	
10344	-48.26	-25	-23.26	-59.7	1.26	12.7	Horizontal	Pass	
5172	-52.67	-25	-27.67	-61.45	0.82	9.6	Vertical	Pass	
7758	-50.52	-25	-25.52	-62.73	0.99	13.2	Vertical	Pass	
10344	-46.58	-25	-21.58	-58.02	1.26	12.7	Vertical	Pass	

	FDD LTE Band38-High channel, Modulation: QPSK, Bandwidth: 20MHz, 1 RB0										
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
5202	-52.77	-25	-27.77	-61.55	0.82	9.6	Horizontal	Pass			
7803	-50.4	-25	-25.4	-62.61	0.99	13.2	Horizontal	Pass			
10404	-49.27	-25	-24.27	-60.71	1.26	12.7	Horizontal	Pass			
5202	-53.19	-25	-28.19	-61.97	0.82	9.6	Vertical	Pass			
7803	-50.11	-25	-25.11	-62.32	0.99	13.2	Vertical	Pass			
10404	-49.18	-25	-24.18	-60.62	1.26	12.7	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

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

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

I imit: ≤ ±2.5ppm.

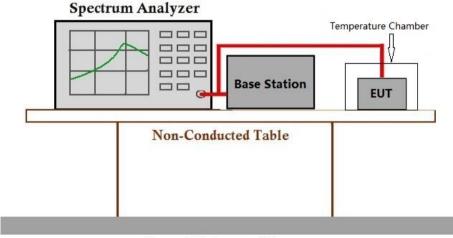
## 6.7.1 E.U.T. Operation

Operating Environment:

53.5 % RH Atmospheric Pressure: 1020 mbar Temperature: 21.5 °C 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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#### 6.8 Modulation Characteristics

Test Requirement: §2.1047

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

Limit: Digital modulation

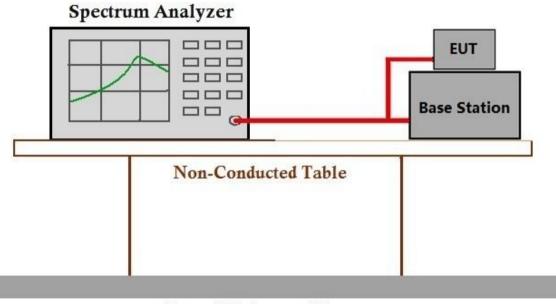
## 6.8.1 E.U.T. Operation

Operating Environment:

Temperature: Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar

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

## 6.8.2 Test Setup Diagram



Ground Reference Plane

### 6.8.3 Measurement Data

Pass, it's a digital modulation device.



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

Refer to Appendix - Test Setup Photo for SZCR2306001888AT

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

Refer to Appendix - External and Internal Photos for SZCR2306001888AT

- End of the Report -



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