



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240100017608

> Page: 1 of 22

TEST REPORT

Application No.: SZCR2401000176AT

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

3F No.2 Building, Aisino Corporation Park 18A, Xingshikou Road, Haidian **Address of Applicant:**

District, Beijing, China 100195

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

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

District, Beijing, China 100195

Equipment Under Test (EUT):

EUT Name: Android POS Terminal

Model No.: A99

FCC ID: OWLA99-A Standard(s): 47 CFR Part 2

> 47 CFR Part 22 subpart H 47 CFR Part 24 subpart E

Date of Receipt: 2024-01-11

Date of Test: 2024-01-15 to 2024-01-30

Date of Issue: 2024-03-15

Test Result: Pass*

EMC Laboratory Manager



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



SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240100017608

Page: 2 of 22

	Revision Record						
Version	Chapter	Date Modifier		Remark			
01		2024-03-15		Original			

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



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Report No.: SZCR240100017608

Page: 3 of 22

Test Summary 2

Test Item	FCC Rule No.	Requirements	Verdict	
Effective (Instrumia) Dedicted	§2.1046,			
Effective (Isotropic) Radiated Power Output Data	§22.913,	ERP≤7W(WCDMA band V)	PASS	
	§24.232	EIRP≤2W(WCDMA band II)		
Pook Average Patio	§22.913	≤13dB	PASS	
Peak-Average Ratio	§24.232	130D	PASS	
Bandwidth	\$2.4040(b)	OBW: No limit	DACC	
Bariuwidiri	§2.1049(h)	EBW: No limit	PASS	
	§2.1051,	≤ -13dBm/1%*EBW, in 1 MHz bands		
Band Edge Compliance	§22.917,	immediately outside and adjacent to the	PASS	
	§24.238	frequency block.		
	§2.1051,			
Spurious emissions at antenna terminals	§22.917,	≤ -13dBm	PASS	
terrinals	§24.238			
	§2.1051,			
Field strength of spurious radiation	§22.917,	≤ -13dBm	PASS	
radiation	§24.238			
	§2.1055,			
Frequency stability	§22.355,	≤ ±2.5ppm.	PASS	
	§24.235			



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240100017608

Page: 4 of 22

3 Contents

			Page
1	Cove	r Page	1
2	Test :	Summary	3
3	Cont	ents	4
J	Conte	GIII.3	
4	Gene	eral Information	6
	4.1	Details of E.U.T.	6
	4.2	Test Frequency	7
		Test Environment	
		Description of Support Units	
		Measurement Uncertainty	
		Test Location	
		Test Facility	
		Deviation from Standards	
	4.9	Abnormalities from Standard Conditions	9
5	Equip	oment List	10
6	Radio	Spectrum Matter Test Results	12
	6.1	Effective (Isotropic) Radiated Power Output Data	12
	6.1.1	E.U.T. Operation	12
	6.1.2	Test Setup Diagram	12
	6.1.3	Measurement Data	12
	6.2	Peak-Average Ratio	
	6.2.1	E.U.T. Operation	13
	6.2.2	1 5	
	6.2.3	Measurement Data	13
	6.3	Bandwidth	14
	6.3.1	E.U.T. Operation	
	6.3.2	1 5	
	6.3.3		
		Band Edge Compliance	
	6.4.1	E.U.T. Operation	
	6.4.2	1 3	
	6.4.3		
		Spurious emissions at antenna terminals	
	6.5.1	E.U.T. Operation	
	6.5.2	1 5	
	6.5.3	Measurement Data	
		Field strength of spurious radiation	
	6.6.1	E.U.T. Operation	
	6.6.2	1 0	
	6.6.3	Measurement Procedure and Data	18



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240100017608

Page: 5 of 22

6	.7	Frequency stability	21
		E.U.T. Operation	
		Test Setup Diagram	
		Measurement Data	
7	Test	Setup Photo	22
8	EUT	Constructional Details (EUT Photos)	22



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Report No.: SZCR240100017608

Page: 6 of 22

4 **General Information**

4.1 Details of E.U.T.

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

Battery M/N:BT-991

Battery Manufacture: Hunan Gaoyuan Battery 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

Cable Loss (for RF conducted test):

0.7dBi(below 1GHz), 1dBi(above 1GHz)

Sample Type: Portable production Support Network: RMC, HSDPA, HSUPA

Operation Frequency

UMTS FDD Band II/V

Band: Modulation Type:

QPSK for WCDMA

Supported Channel

5MHz for WCDMA

Bandwidth:

UMTS Power Class: Level 3

Antenna Type: PIFA Antenna

Antenna Gain: WCDMA B2: 2.29 dBi: B5: -2.26 dBi

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

tested. SIM1 was worst case, only record SIM1.



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240100017608

Page: 7 of 22

4.2 Test Frequency

Toot Mode	TV	RF Channel				
Test Mode	TX	Low(L)	Middle (M)	High (H)		
WCDMA Band	TV	Channel 4132	Channel 4183	Channel 4233		
V	TX	826.4 MHz	836.6 MHz	846.6 MHz		
Toot Mode	TX	RF Channel				
Test Mode		Low(L)	Middle (M)	High (H)		
WCDMA Band	Band TX	Channel 9262	Channel 9400	Channel 9538		
II		1852.4 MHz	1880.0 MHz	1907.6 MHz		

4.3 Test Environment

Environment Parameter	Selected Values During Tests		
	TL	-30°C	
Temperature:	TN	+20°C	
	TH	+50°C	
	VL	6.6 Vdc	
Voltage:	VN	7.6 Vdc	
	VH	8.7 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

The EUT has been tested independent unit.



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240100017608

Page: 8 of 22

4.5 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	± 5.4 x 10 ⁻⁸
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	Dadiated 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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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240100017608

Page: 9 of 22

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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Report No.: SZCR240100017608

Page: 10 of 22

Equipment List 5

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	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	FSV40	SEM008-04	2023/03/20	2024/03/19
Measurement Software	TST	TST PASS V2.0	N/A	N/A	N/A
Attenuator	Huber+Suhner	6620_SMA- 50-1	SEM021-09	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	2023/07/11	2024/07/10
Pre-amplifier	HP	8447D	SEM005-02	2023/07/11	2024/07/10
Spectrum Analyzer	Rohde & Schwarz	101288	SEM004-08	2023/07/11	2024/07/10
Low Noise Amplifier	CLAVIIO	BDLNA-0118- 352810	SEM005-05	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	2023/07/11	2024/07/10
Pre-amplifier	HP	8447D	SEM005-02	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
Spectrum Analyzer	Rohde & Schwarz	101288	SEM004-08	2023/07/11	2024/07/10
Low Noise Amplifier	CLAVIIO	BDLNA-0118- 352810	SEM005-05	2023/07/11	2024/07/10



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240100017608

Page: 11 of 22

Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023/07/11	2024/07/10
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2023/07/11	2024/07/10
Substitution Antenna	ETS-Lindgren	3142C	SEM003-01	2023/06/25	2026/06/24
Universal Radio 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	deli	8838	SEM002-32	2023-07-28	2024-07-27	
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27	
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22	



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Report No.: SZCR240100017608

Page: 12 of 22

Radio Spectrum Matter Test Results

6.1 Effective (Isotropic) Radiated Power Output Data

Test Requirement: §2.1046, §22.913, §24.232

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

Limit: ERP≤7W(WCDMA BAND V) EIRP≤2W(WCDMA BAND II)

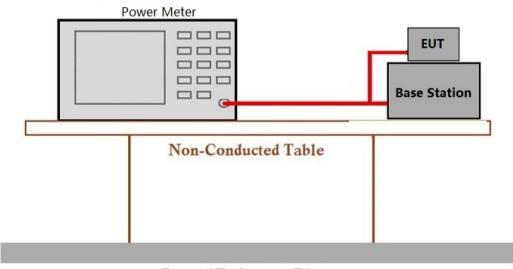
6.1.1 E.U.T. Operation

Operating Environment:

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

Test mode: 31: 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 WCDMA RF power test data.



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240100017608

Page: 13 of 22

6.2 Peak-Average Ratio

Test Requirement: §22.913, §24.232

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

Limit: ≤13dB

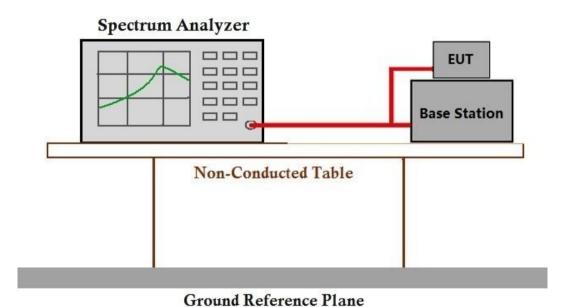
6.2.1 E.U.T. Operation

Operating Environment:

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

Test mode: 31: TX mode_Keep the EUT in transmitting mode

6.2.2 Test Setup Diagram



6.2.3 Measurement Data

Please refer to Appendix for WCDMA PAR test data.



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Report No.: SZCR240100017608

Page: 14 of 22

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

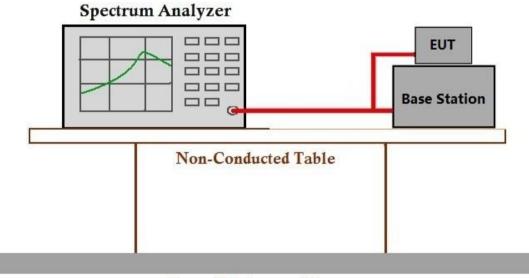
6.3.1 E.U.T. Operation

Operating Environment:

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

31: TX mode_Keep the EUT in transmitting mode Test mode:

6.3.2 Test Setup Diagram



Ground Reference Plane

6.3.3 Measurement Data

Please refer to Appendix for WCDMA bandwidth test data.



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Report No.: SZCR240100017608

Page: 15 of 22

6.4 Band Edge Compliance

Test Requirement: §2.1051, §22.917, §24.238

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

Limit: ≤ -13dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to

the frequency block.

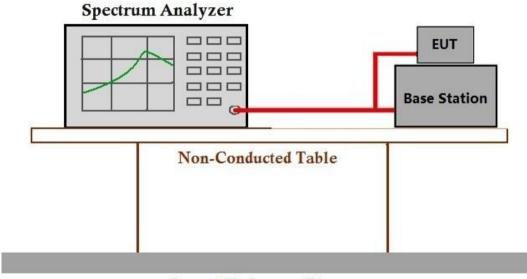
6.4.1 E.U.T. Operation

Operating Environment:

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

Test mode: 31: 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 WCDMA CSE test data.



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Report No.: SZCR240100017608

Page: 16 of 22

6.5 Spurious emissions at antenna terminals

Test Requirement: §2.1051, §22.917, §24.238

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

Limit: ≤ -13dBm

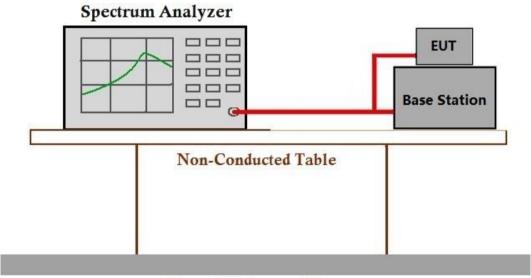
6.5.1 E.U.T. Operation

Operating Environment:

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

Test mode: 31: 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 WCDMA CSE test data.



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240100017608

Page: 17 of 22

6.6 Field strength of spurious radiation

Test Requirement: §2.1051, §22.917, §24.238

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

Limit: ≤ -13dBm

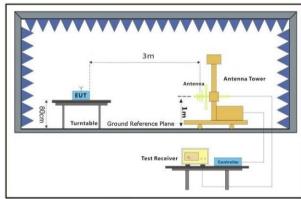
6.6.1 E.U.T. Operation

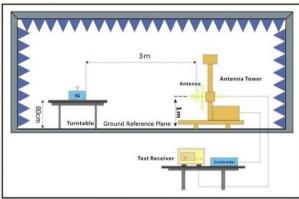
Operating Environment:

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

Test mode: 31: TX mode_Keep the EUT in transmitting mode

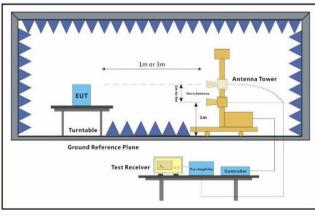
6.6.2 Test Setup Diagram

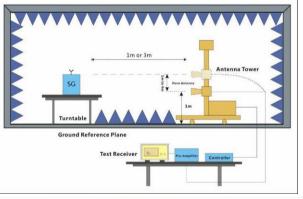




EUT

Substitue Antenna+Signal Generator





EUT

Substitue Antenna+Signal Generator



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240100017608

Page: 18 of 22

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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Report No.: SZCR240100017608

Page: 19 of 22

WCDMA BAND II-Low channel										
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result		
3704.8	-55.21	-13	-42.21	-60.09	3.29	8.17	Horizontal	Pass		
5557.2	-52.29	-13	-39.29	-58.5	4.24	10.45	Horizontal	Pass		
7409.6	-49.59	-13	-36.59	-56.53	4.19	11.13	Horizontal	Pass		
3704.8	-55.63	-13	-42.63	-60.51	3.29	8.17	Vertical	Pass		
5557.2	-50.84	-13	-37.84	-57.05	4.24	10.45	Vertical	Pass		
7409.6	-49.89	-13	-36.89	-56.83	4.19	11.13	Vertical	Pass		

WCDMA BAND II-Middle channel										
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result		
3760	-56.15	-13	-43.15	-61.03	3.29	8.17	Horizontal	Pass		
5640	-52.71	-13	-39.71	-58.92	4.24	10.45	Horizontal	Pass		
7520	-49.48	-13	-36.48	-57.005	4.215	11.74	Horizontal	Pass		
3760	-55.52	-13	-42.52	-60.4	3.29	8.17	Vertical	Pass		
5640	-52.75	-13	-39.75	-58.96	4.24	10.45	Vertical	Pass		
7520	-48.55	-13	-35.55	-56.075	4.215	11.74	Vertical	Pass		

WCDMA BAND II-High channel										
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result		
3815.2	-55.68	-13	-42.68	-60.56	3.29	8.17	Horizontal	Pass		
5722.8	-53.37	-13	-40.37	-59.58	4.24	10.45	Horizontal	Pass		
7630.4	-50.25	-13	-37.25	-57.775	4.215	11.74	Horizontal	Pass		
3815.2	-56.19	-13	-43.19	-61.07	3.29	8.17	Vertical	Pass		
5722.8	-53.94	-13	-40.94	-60.15	4.24	10.45	Vertical	Pass		
7630.4	-49.4	-13	-36.4	-56.925	4.215	11.74	Vertical	Pass		



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Report No.: SZCR240100017608

Page: 20 of 22

	WCDMA Band V-Low channel										
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
1652.8	-65.57	-13	-52.57	-69.455	1.995	5.88	Horizontal	Pass			
2479.2	-36.79	-13	-23.79	-36.91	2.35	4.62	Horizontal	Pass			
3305.6	-57.3	-13	-44.3	-59.11	2.96	6.92	Horizontal	Pass			
1652.8	-66.13	-13	-53.13	-67.865	1.995	5.88	Vertical	Pass			
2479.2	-61.22	-13	-48.22	-61.34	2.35	4.62	Vertical	Pass			
3305.6	-57.92	-13	-44.92	-59.73	2.96	6.92	Vertical	Pass			

WCDMA Band V-Middle channel										
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result		
1672.8	-66.56	-13	-53.56	-70.445	1.995	5.88	Horizontal	Pass		
2509.2	-61.02	-13	-48.02	-62.035	2.655	5.82	Horizontal	Pass		
3345.6	-56.74	-13	-43.74	-58.55	2.96	6.92	Horizontal	Pass		
1672.8	-64.71	-13	-51.71	-66.445	1.995	5.88	Vertical	Pass		
2509.2	-58.62	-13	-45.62	-59.635	2.655	5.82	Vertical	Pass		
3345.6	-55.83	-13	-42.83	-57.64	2.96	6.92	Vertical	Pass		

	WCDMA Band V-High channel										
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result			
1693.2	-65.95	-13	-52.95	-69.835	1.995	5.88	Horizontal	Pass			
2539.8	-61.27	-13	-48.27	-62.285	2.655	5.82	Horizontal	Pass			
3386.4	-56.41	-13	-43.41	-58.22	2.96	6.92	Horizontal	Pass			
1693.2	-65.19	-13	-52.19	-66.925	1.995	5.88	Vertical	Pass			
2539.8	-61.06	-13	-48.06	-62.075	2.655	5.82	Vertical	Pass			
3386.4	-55.93	-13	-42.93	-57.74	2.96	6.92	Vertical	Pass			

Note:

All modes have been tested and we found RMC Test mode has the worst test result. Only record the worst test result.



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SZEMC-TRF-01 Rev. A/1 Report No.: SZCR240100017608

Page: 21 of 22

6.7 Frequency stability

Test Requirement: §2.1055, §22.355, §24.235

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

Limit: $\leq \pm 2.5$ ppm.

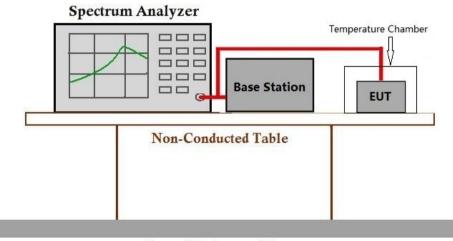
6.7.1 E.U.T. Operation

Operating Environment:

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

Test mode: 31: 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 WCDMA FE test data.



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Report No.: SZCR240100017608

Page: 22 of 22

Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2401000176AT

EUT Constructional Details (EUT Photos) 8

Refer to Appendix - External and Internal Photos for SZCR2401000176AT

- End of the Report -



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