



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250100026408

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TEST REPORT

Application No.: SZCR2501000264AT

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.: A90 Pro

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Trade Mark:

FCC ID: OWLA90-PRO-C Standard(s): 47 CFR Part 2

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

Date of Receipt: 2025-01-17

Date of Test: 2025-03-08 to 2025-03-19

Date of Issue: 2025-03-25

Test Result: Pass*

EMC Laboratory Manager



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



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	Revision Record							
Version	Version Chapter Date Modifier							
01		2025-03-25		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	
	§2.1046,			
Effective (Isotropic) Radiated Power Output Data	§22.913,	ERP≤7W(WCDMA band V)	PASS	
1 Ower Output Data	§24.232	EIRP≤2W(WCDMA band II)		
Dook Average Petio	§22.913	≤13dB	PASS	
Peak-Average Ratio	§24.232	S130B	PASS	
Bandwidth	§2.1049(h)	OBW: No limit	DASS	
Baridwidtri	92.1049(11)	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.		
Causiana amiasiana at antanna	§2.1051,			
Spurious emissions at antenna terminals	§22.917,	≤ -13dBm	PASS	
	§24.238			
	§2.1051,			
Field strength of spurious radiation	§22.917,	≤ -13dBm	PASS	
	§24.238			
	§2.1055,			
Frequency stability	§22.355,	≤ ±2.5ppm.	PASS	
	§24.235			



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Declaration of EUT Family Grouping:

Model No.: A90 Pro

Since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for all the above models, but the resolution of the screen and the vendor are different. Same battery specifications, different suppliers. Different suppliers of printer motors and button batteries.

Hardware Version	Object / part No.	Manufacturer/trademark	Type / model	Technical data	Description of the difference
	LCD	Shenzhen Tianzhengda Electronics Co., LTD.	A90 PRO_IPS_V1.00	1280*720	
	LCD	GUANGDONG SUPERVIEW OPTOELECTRONICS CO.,LTD.	A90 PRO_IPS_V1.00	960*540	The circuit design,
P9.0	Rechargeable Li-ion Battery Dongg Energy DongG YuanFa Motor Motor SHEN	MEI ZHOU BO FU NENG TECHNOLOGY CO., LTD	BT-901	Nominal Voltage: 3.60V Rated Capacity: 5200mAh/ 18.72Wh	layout, components used and internal wiring are all the same, but the
		Dongguan Rishengzhi New Energy Technology Co., Ltd.	BT-901	Nominal Voltage: 3.60V Rated Capacity: 5200mAh/ 18.72Wh	resolution of the screen and the vendor are different. Same battery
		DongGuan YuanFang Motor CoLtd	15BY25-211	3.60V	specifications, different suppliers.
		SHEN ZHEN CITY ONCE TOP MOTOR MANUFACTURE CO.,LTD.	OT-SM15P-245D	4.2~8.5V DC	Different suppliers of printer motors and button batteries.
		EVE Energy Co.,Ltd.	CR2032	3V, 225mAh	
	Button cell	Shenzhen Lidea Battery Co Ltd	CR2032	3V, 230mAh	



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General Information

4.1 Details of E.U.T.

	Power supply:	DC3.6V by li-ion battery(5200mAh)			
		Battery M/N:BT-901			
		Battery Manufacturer:MEI ZHOU BO FU NENG TECHNOLOGY CO.,LTD			
		Recharged by AC/DC power adapter			
		Adapter Manufacturer: Xiamen Keli Electronics Co.,Ltd			
		Power 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 shielded 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 Band:	UMTS FDD Band II/V			
	Modulation Type:	QPSK for WCDMA			
	Supported Channel Bandwidth:	5MHz for WCDMA			
	UMTS Power Class:	Level 3			
	Antenna Type:	PIFA Antenna			
	Antenna Gain:	WCDMA B2:2.63dBi; B5:-1.24dBi			
	SIM Card:	This device has dual SIM Card sockets. Both the SIM sockets have been tested. SIM1 was worst case, only record SIM1.			

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4.2 Test Frequency

		RF Channel				
Test Mode	TX	TO GLATILE!				
1 oot mode	170	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	3.40 Vdc	
Voltage:	VN	3.60 Vdc	
	VH	4.20 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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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	Dedicted Couriers assisting 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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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	2024-07-10	2025-07-09
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-20	2025-03-19
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	2024-03-27	2025-03-26
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2025-02-26	2026-02-25
Power Sensor	KEYSIGHT	U2021XA	SEM009-15	2024-03-20	2025-03-19

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2023-09-23	2025-09-22
Substitution Antenna	Schwarzbeck	VULB9168	SEM003-18	2022-08-07	2025-08-06
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15 2025-03-14	2025-03-14 2026-03-13
Signal Generator(9kHz- 40GHz)	N5173B	MY53270267	Agilent	2024-09-14	2025-09-13



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Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2023-09-17	2025-09-16
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2024-03-22	2025-03-21
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

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			SEM002-33	2024-07-24	2025-07-23					
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-22	2025-03-21					



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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)

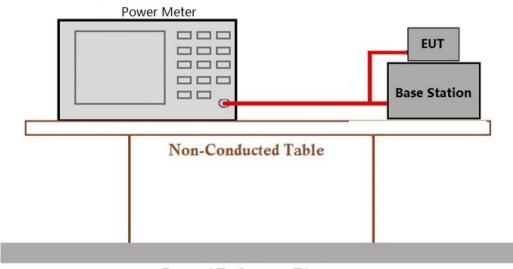
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.9 °C Humidity: 44.8 % 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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6.2 Peak-Average Ratio

Test Requirement: §22.913, §24.232

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

Limit:

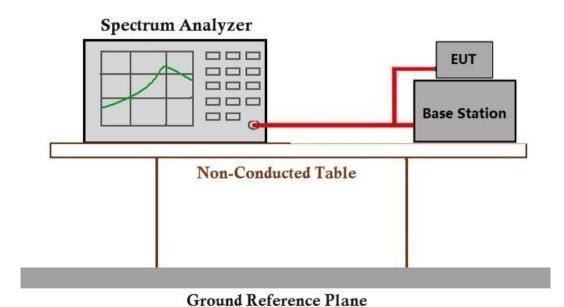
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: Humidity: 44.8 % 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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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

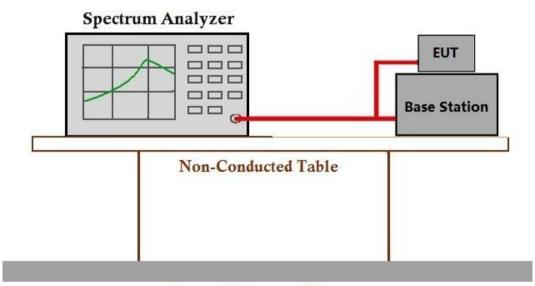
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: Humidity: 44.8 % 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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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.

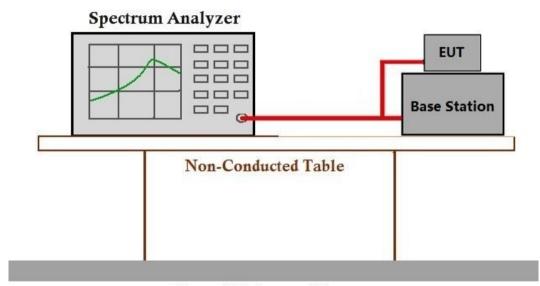
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 21.9 °C Humidity: 44.8 % 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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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

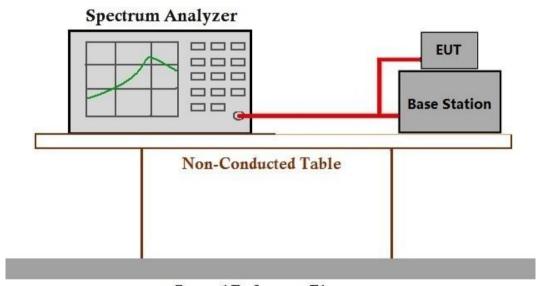
6.5.1 E.U.T. Operation

Operating Environment:

Temperature: Humidity: 44.8 % 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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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

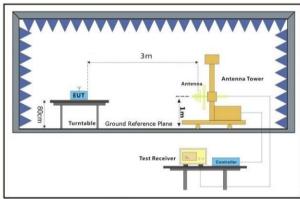
6.6.1 E.U.T. Operation

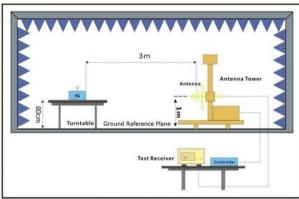
Operating Environment:

Temperature: Humidity: 44.8 % RH Atmospheric Pressure: 1020 mbar

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

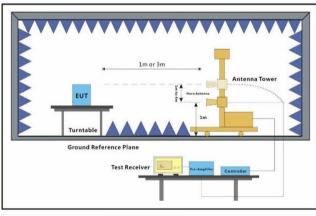
6.6.2 Test Setup Diagram

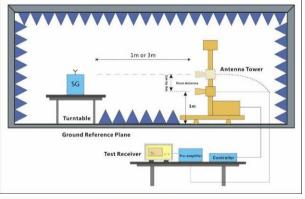




EUT

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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	WCDMA Band 2-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	-58.46	-13	-45.46	-63.47	3.43	8.44	Horizontal	Pass			
5557.2	-55.33	-13	-42.33	-61.54	4.24	10.45	Horizontal	Pass			
7409.6	-53.45	-13	-40.45	-60.87	4.21	11.63	Horizontal	Pass			
3704.8	-58.24	-13	-45.24	-63.25	3.43	8.44	Vertical	Pass			
5557.2	-54.02	-13	-41.02	-60.23	4.24	10.45	Vertical	Pass			
7409.6	-54.73	-13	-41.73	-62.15	4.21	11.63	Vertical	Pass			

	WCDMA Band 2-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			
3760.0	-56.21	-13	-43.21	-61.27	3.46	8.52	Horizontal	Pass			
5640.0	-54.16	-13	-41.16	-60.38	4.23	10.45	Horizontal	Pass			
7520.0	-55.0	-13	-42.0	-62.54	4.22	11.76	Horizontal	Pass			
3760.0	-57.45	-13	-44.45	-62.51	3.46	8.52	Vertical	Pass			
5640.0	-53.18	-13	-40.18	-59.4	4.23	10.45	Vertical	Pass			
7520.0	-52.91	-13	-39.91	-60.45	4.22	11.76	Vertical	Pass			

WCDMA Band 2-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	-55.35	-13	-42.35	-60.44	3.5	8.59	Horizontal	Pass		
5722.8	-53.74	-13	-40.74	-59.96	4.23	10.45	Horizontal	Pass		
7630.4	-53.71	-13	-40.71	-61.37	4.23	11.89	Horizontal	Pass		
3815.2	-57.37	-13	-44.37	-62.46	3.5	8.59	Vertical	Pass		
5722.8	-53.35	-13	-40.35	-59.57	4.23	10.45	Vertical	Pass		
7630.4	-54.48	-13	-41.48	-62.14	4.23	11.89	Vertical	Pass		



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	WCDMA Band 5-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	-62.13	-13	-49.13	-65.51	2.11	5.49	Horizontal	Pass				
2479.2	-60.68	-13	-47.68	-63.8	2.65	5.77	Horizontal	Pass				
3305.6	-58.29	-13	-45.29	-62.81	3.16	7.68	Horizontal	Pass				
1652.8	-63.52	-13	-50.52	-66.9	2.11	5.49	Vertical	Pass				
2479.2	-61.31	-13	-48.31	-64.43	2.65	5.77	Vertical	Pass				
3305.6	-56.88	-13	-43.88	-61.4	3.16	7.68	Vertical	Pass				

	WCDMA Band 5-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	-64.04	-13	-51.04	-67.36	2.12	5.44	Horizontal	Pass			
2509.2	-60.55	-13	-47.55	-63.72	2.67	5.84	Horizontal	Pass			
3345.6	-56.63	-13	-43.63	-61.22	3.19	7.78	Horizontal	Pass			
1672.8	-62.84	-13	-49.84	-66.16	2.12	5.44	Vertical	Pass			
2509.2	-59.61	-13	-46.61	-62.78	2.67	5.84	Vertical	Pass			
3345.6	-56.47	-13	-43.47	-61.06	3.19	7.78	Vertical	Pass			

	WCDMA Band 5-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	-62.79	-13	-49.79	-66.04	2.14	5.39	Horizontal	Pass				
2539.8	-59.88	-13	-46.88	-63.11	2.68	5.91	Horizontal	Pass				
3386.4	-56.73	-13	-43.73	-61.4	3.22	7.89	Horizontal	Pass				
1693.2	-61.99	-13	-48.99	-65.24	2.14	5.39	Vertical	Pass				
2539.8	-59.68	-13	-46.68	-62.91	2.68	5.91	Vertical	Pass				
3386.4	-56.34	-13	-43.34	-61.01	3.22	7.89	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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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.

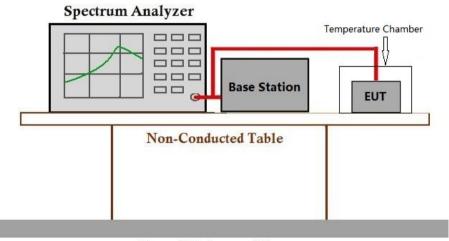
6.7.1 E.U.T. Operation

Operating Environment:

Temperature: 21.9 °C Humidity: 44.8 % 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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Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2501000264AT

EUT Constructional Details (EUT Photos) 8

Refer to Appendix - External and Internal Photos for SZCR2501000264AT

- End of the Report -



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