



SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250100026407

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TEST REPORT

Application No.: SZCR2501000264AT

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

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

District, Beijing, China 100195

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

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

47 CFR Part 24

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*

Keny Xu 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	Chapter	Date	Modifier	Remark			
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
Effective (Isotropic) Radiated Power Output Data	· ' ' \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		PASS
Peak-Average Ratio	§24.232	≤13dB	PASS
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	\$2.1051, \$22.917, \$24.238 \$2.1051, \$22.917, immediately outside and adjacent to the frequency block.		PASS
Spurious emissions at antenna terminals	§2.1051, §22.917, §24.238	≤ -13dBm	PASS
Field strength of spurious radiation	\$2.1051, eld strength of spurious \$2.1051, \$22.917 < -13dBm		PASS
Frequency stability	§2.1055, §22.355, §24.235	≤ ±2.5ppm.	PASS



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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	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 resolution of the screen and the vendor are different. Same battery specifications, different suppliers. Different suppliers of printer motors and button batteries.
		Dongguan Rishengzhi New Energy Technology Co., Ltd.	BT-901	Nominal Voltage: 3.60V Rated Capacity: 5200mAh/ 18.72Wh	
	Motor SH	DongGuan YuanFang Motor CoLtd	15BY25-211	3.60V	
		SHEN ZHEN CITY ONCE TOP MOTOR MANUFACTURE CO.,LTD.	OT-SM15P-245D	4.2~8.5V DC	
		EVE Energy Co.,Ltd.	CR2032	3V, 225mAh	
	Button cell	Shenzhen Lidea Battery Co Ltd	CR2032	3V, 230mAh	



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4 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):	Below 1GHz: 0.5dB, 1GHz~2GHz:0.7dB, Above 2GHz: 1dB
Sample Type:	Portable production
Support Network:	GPRS, EGPRS
Operation Frequency Band:	GSM850/PCS1900
Modulation Type:	GMSK for GPRS/EGPRS;
GPRS Class:	12
EGPRS Class:	12
Antenna Type:	PIFA Antenna
Antenna Gain:	GSM850:-1.24dBi; PCS1900:2.63dBi

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4.2 Test Frequency

	<u> </u>			
Test mode:	TX	RF Channel		
rest mode.	17	Low (L)	Middle (M)	High (H) Channel 251 848.8 MHz High (H) Channel 810
GSM850	TX	Channel 128	Channel 190	Channel 251
GSIVIOSU	1.	824.2MHz	836.6 MHz	848.8 MHz
Test mode:	TV	RF Channel		
rest mode.	TX	Low (L)	Middle (M)	High (H)
DCS1000	TV	Channel 512 Channel 661 C	Channel 810	
PCS1900	TX	1850.2MHz	1880.0 MHz	1909.8 MHz

4.3 Test Environment

Environment Parameter	Selected Values During Tests		
Temperature:	TL	-30°C	
	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	Dadiated Churique 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.

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

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

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	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	BBHA 9120D SEM003-32		2025-09-16
Pre-amplifier	Rohde & Schwarz	CH14-H052	CH14-H052 SEM005-17		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	deli	8838	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

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

I imit: ERP≤7W(GSM850)

 $EIRP \le 2W(PCS1900)$

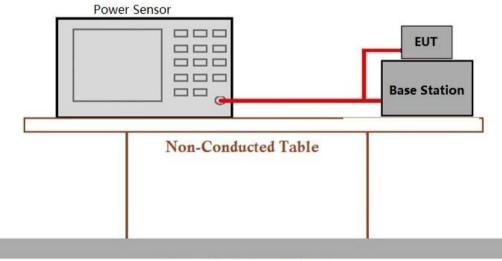
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.9 °C Humidity: 44.8 % RH Atmospheric Pressure: 1020 mbar

Test mode: 30: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 GSM test data appendix.



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6.2 Peak-Average Ratio

Test Requirement: §24.232

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

Limit: ≤13dB

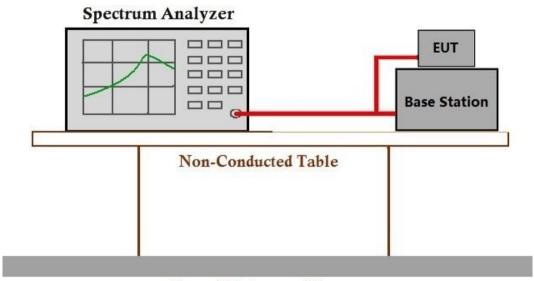
6.2.1 E.U.T. Operation

Operating Environment:

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

Test mode: 30: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 GSM test data appendix.



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6.3 Bandwidth

Test Requirement: §2.1049(h), §22.917, §24.238

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

Limit: **OBW: No limit** EBW: No limit

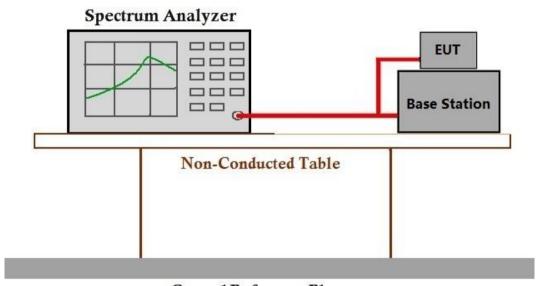
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.9 °C Humidity: 44.8 % RH Atmospheric Pressure: 1020 mbar

Test mode: 30: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 GSM test data appendix.



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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

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

the frequency block.

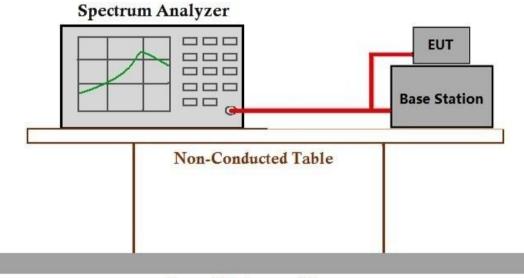
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 21.9 °C Humidity: 44.8 % RH Atmospheric Pressure: 1020 mbar

Test mode: 30: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 GSM test data appendix.



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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

≤ -13dBm Limit:

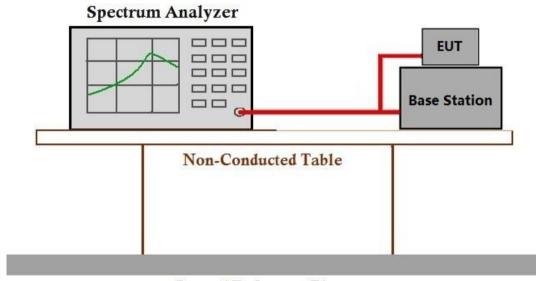
6.5.1 E.U.T. Operation

Operating Environment:

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

Test mode: 30: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 GSM test data appendix.



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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

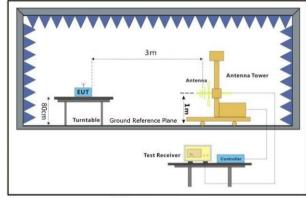
6.6.1 E.U.T. Operation

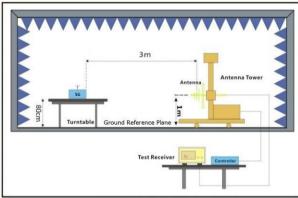
Operating Environment:

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

Test mode: 30:TX mode_Keep the EUT in transmitting mode

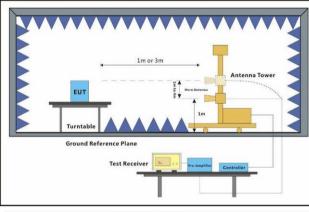
6.6.2 Test Setup Diagram

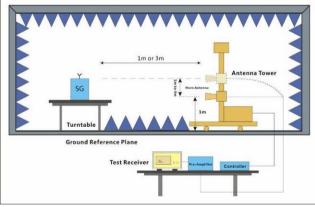




EUT

Substiute Antenna+Signal Generator





EUT

Substitue 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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	GSM850-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					
1648.4	-63.41	-13	-50.41	-66.82	2.1	5.51	Horizontal	Pass					
2472.6	-61.0	-13	-48.0	-64.11	2.64	5.75	Horizontal	Pass					
3296.8	-58.68	-13	-45.68	-63.18	3.16	7.66	Horizontal	Pass					
1648.4	-63.96	-13	-50.96	-67.37	2.1	5.51	Vertical	Pass					
2472.6	-61.02	-13	-48.02	-64.13	2.64	5.75	Vertical	Pass					
3296.8	-57.9	-13	-44.9	-62.4	3.16	7.66	Vertical	Pass					

	GSM850-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	-63.86	-13	-50.86	-67.18	2.12	5.44	Horizontal	Pass					
2509.2	-59.74	-13	-46.74	-62.91	2.67	5.84	Horizontal	Pass					
3345.6	-58.66	-13	-45.66	-63.25	3.19	7.78	Horizontal	Pass					
1672.8	-63.39	-13	-50.39	-66.71	2.12	5.44	Vertical	Pass					
2509.2	-61.7	-13	-44.8	-64.87	2.67	5.84	Vertical	Pass					
3345.6	-58.45	-13	-45.45	-63.04	3.19	7.78	Vertical	Pass					

	GSM850-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					
1697.6	-60.58	-13	-47.58	-63.82	2.14	5.38	Horizontal	Pass					
2546.4	-59.19	-13	-46.19	-62.42	2.69	5.92	Horizontal	Pass					
3395.2	-56.69	-13	-43.69	-61.38	3.22	7.91	Horizontal	Pass					
1697.6	-62.87	-13	-49.87	-66.11	2.14	5.38	Vertical	Pass					
2546.4	-59.98	-13	-46.98	-63.21	2.69	5.92	Vertical	Pass					
3395.2	-59.04	-13	-46.04	-63.73	3.22	7.91	Vertical	Pass					



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	GSM1900-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					
3700.4	-58.2	-13	-45.2	-63.22	3.42	8.44	Horizontal	Pass					
5550.6	-51.79	-13	-38.79	-58.0	4.24	10.45	Horizontal	Pass					
7400.8	-55.09	-13	-42.09	-62.5	4.21	11.62	Horizontal	Pass					
3700.4	-56.98	-13	-43.98	-62.0	3.42	8.44	Vertical	Pass					
5550.6	-54.86	-13	-41.86	-61.07	4.24	10.45	Vertical	Pass					
7400.8	-52.42	-13	-39.42	-59.83	4.21	11.62	Vertical	Pass					

	GSM1900-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	-59.19	-13	-46.19	-64.25	3.46	8.52	Horizontal	Pass					
5640.0	-57.45	-13	-44.45	-63.67	4.23	10.45	Horizontal	Pass					
7520.0	-55.42	-13	-42.42	-62.96	4.22	11.76	Horizontal	Pass					
3760.0	-58.25	-13	-45.25	-63.31	3.46	8.52	Vertical	Pass					
5640.0	-54.42	-13	-41.42	-60.64	4.23	10.45	Vertical	Pass					
7520.0	-56.46	-13	-43.46	-64.0	4.22	11.76	Vertical	Pass					

	GSM1900-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					
3819.6	-55.9	-13	-42.9	-61.0	3.5	8.6	Horizontal	Pass					
5729.4	-57.01	-13	-44.01	-63.23	4.23	10.45	Horizontal	Pass					
7639.2	-57.2	-13	-44.2	-64.87	4.23	11.9	Horizontal	Pass					
3819.6	-58.19	-13	-45.19	-63.29	3.5	8.6	Vertical	Pass					
5729.4	-55.91	-13	-42.91	-62.13	4.23	10.45	Vertical	Pass					
7639.2	-54.24	-13	-41.24	-61.91	4.23	11.9	Vertical	Pass					

All modes have been tested and we found GPRS 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, §21.955, §24.235

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

Limit: \leq ±2.5ppm.

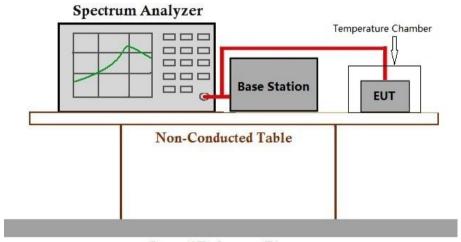
6.7.1 E.U.T. Operation

Operating Environment:

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

Test mode: 30: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 GSM test data appendix.



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7 **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 Report -



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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Stienzhen, Guangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn 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 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com