

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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250800366307

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TEST REPORT

Application No.: SZCR2508003663AT
Applicant: PAX Technology Limited
Address of Applicant: FLAT/RM 2504, 25/F, SUN HUNG KAI CENTRE, 30 HARBOUR ROAD, WANCHAI, HK, China
Manufacturer: PAX Computer Technology(Shenzhen) Co., Ltd.
Address of Manufacturer: Room 701, PAX Technology Building, Shanxia Community, Pinghu Sub district, Longgang District, Shenzhen, China
Equipment Under Test (EUT):
EUT Name: Smart Payment Terminal
Model No.: A800
Trade Mark: PAX
FCC ID: V5PA800
Standard(s) : 47 CFR Part 2
47 CFR Part 22
47 CFR Part 24
47 CFR Part 27
Date of Receipt: 2025-08-20
Date of Test: 2025-08-21 to 2025-08-22
Date of Issue: 2025-09-01

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu
EMC Laboratory Manager



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

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-09-01		Original

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



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2 Test Summary

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913, §24.232 §27.50(d)	ERP≤7W(WCDMA band V) EIRP≤2W(WCDMA band II) EIRP≤1W(WCDMA Band IV)	PASS
Field strength of spurious radiation	§2.1051, §22.917, §24.238 §27.53(h)	≤ -13dBm	PASS

Remark: This report is based on SZCR210502109907, to modify configuration as below:

- 1.The BOT surface RF PA chip model has been changed, but it's pin to pin compatible and remains the same function.
- 2.The CPU on the TOP side has been upgraded, with a new model and the same packaging.
- 3.New incell screen added.
- 4.Screen FPC flat cable changed.
- 5.Update antenna gain.

Therefore in this report Field strength of spurious radiation was fully retested on model and shown the data in this report, other tests please refer to original report SZCR210502109907.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC7.2V by li-ion battery(2300mAh) Battery M/N:IS1099G Battery Manufacturer:ICON ENERGY SYSTEM(SHENZHEN) CO.,LTD. Recharged by AC/DC power adapter Adapter M/N: GLH-PD18W-U Adapter input: AC100-240V, 50/60Hz, 0.5A Adapter output: DC5V/3A, 9V/2A, 12V/1.5A Adapter Manufacturer: Shenzhen Sorghum red Electronic Technology Co.,Ltd.
Cable(s):	USB cable:1m unshielded 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:	RMC, HSDPA, HSUPA
Operation Frequency Band:	UMTS FDD Band II/IV/V
Modulation Type:	QPSK/16QAM for WCDMA
Supported Channel Bandwidth:	5MHz for WCDMA
UMTS Power Class:	Level 3
Antenna Type:	PIFA Antenna
Antenna Gain:	WCDMA B2: -1.26dBi; B4: -0.19dBi; B5: 0.06dBi
SIM Card:	This device has dual SIM Card sockets. Both the SIM sockets have been tested. SIM1 was worst case, only record SIM1.

Remark:The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



4.2 Test Frequency

Test Mode	TX	RF Channel		
		Low(L)	Middle (M)	High (H)
WCDMA Band V	TX	Channel 4132	Channel 4183	Channel 4233
		826.4 MHz	836.6 MHz	846.6 MHz
Test Mode	TX	RF Channel		
		Low(L)	Middle (M)	High (H)
WCDMA Band IV	TX	Channel 1312	Channel 1413	Channel 1513
		1710 MHz	1732.6 MHz	1755 MHz
Test Mode	TX	RF Channel		
		Low(L)	Middle (M)	High (H)
WCDMA Band II	TX	Channel 9262	Channel 9400	Channel 9538
		1852.4 MHz	1880.0 MHz	1907.6 MHz

4.3 Test Environment

Environment Parameter	Selected Values During Tests	
Temperature:	TL	-30°C
	TN	+20°C
	TH	+50°C
Voltage:	VL	6.8 V
	VN	7.2 V
	VH	8.3 V

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.

4.5 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 5.4 \times 10^{-8}$
2	Duty cycle	$\pm 0.3\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF conducted power	$\pm 0.8\text{dB}$
5	RF power density	$\pm 0.4\text{dB}$
6	Conducted Spurious emissions	$\pm 2.7\text{dB}$
7	Radiated Spurious emission test	$\pm 3.1\text{dB}$ (Below 1GHz)
		$\pm 4.4\text{dB}$ (Above 1GHz)
8	Temperature test	$\pm 1^\circ\text{C}$
9	Humidity test	$\pm 3\%$
10	Supply voltages	$\pm 1.5\%$
11	Time	$\pm 3\%$



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4.6 Test Location

All tests were performed at:

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

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

No tests were sub-contracted.

4.7 Test Facility

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

• A2LA (Certificate No. 3816.01)

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

• VCCI (Member No. 1937)

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

• FCC –Designation Number: CN1336

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

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

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None



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5 Equipment List

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2025-07-09	2026-07-08
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	N/A	N/A
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-14	2025-03-03	2026-03-02
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2025-02-26	2026-02-25
Power Sensor	KEYSIGHT	U2021XA	SEM009-15	2025-03-05	2026-03-04

Radiated spurious emissions					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date
MXE EMI receiver (3Hz-3.6GHz)	KEYSIGHT	N9038B	SEM004-29	2025/08/13	2026/08/12
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025/01/07	2026/01/06
Pre-amplifier (30MHz-1GHz)	SGS	AMP30M1G30	SEM005-33	2025/03/04	2026/03/03
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2025/01/07	2026/01/06
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2025/01/07	2026/01/06
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2025/01/07	2026/01/06
Active Loop Antenna 9kHz-30MHz	SCHWARZBECK	FMZB 1519B	SZ-WRG-M-053	2023/12/25	2025/12/24
TRILOG Breitband Antenne	SCHWARZBECK	VULB 9168	SZ-WRG-M-054	2023/12/25	2025/12/24



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30MHz-1GHz					
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023/12/21	2025/12/20
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023/12/25	2025/12/24
RSE Test Software	Tonscend	JS32-RSE V4.0.0	SZ-WRG-M-058	NCR	NCR
RE Test Software	Tonscend	JS32-RE V4.0.0	SZ-WRG-M-059	NCR	NCR
Measurement Software	AUDIX	e3 V8.2014-6- 27	NCR	NCR	NCR
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025/01/07	2026/01/06
Humidity/ Temperature Indicator	Deli	8838	SEM002-46	2025/07/23	2026/07/22
Spectrum Analyzer	Keysight	N9020A	SZ-WRG-M-002	2025/08/16	2026/08/15
Radio Communication Tester	Anriesu	MT8821C	SZ-WRG-M-014	2025/08/18	2026/08/17

Remark: NCR=No Calibration Requirement

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity- Temperature Indicator	deli	8838	SEM002-32	2025-07-23	2026-07-22
Humidity- Temperature Indicator	deli	8838	SEM002-33	2025-07-23	2026-07-22
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03	2026-03-02



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6 Radio Spectrum Matter Test Results

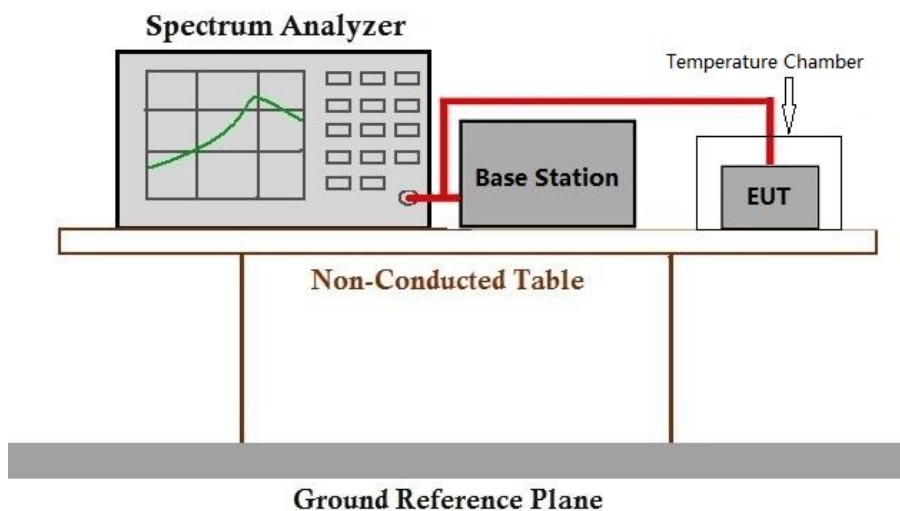
6.1 Effective (Isotropic) Radiated Power Output Data

Test Requirement: §2.1046, §22.913, §24.232, §27.50(d)
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: ERP≤7W(WCDMA BAND V)
 EIRP≤2W(WCDMA BAND II)
 EIRP≤1W(WCDMA Band IV)

6.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 20.8 °C Humidity: 43.5 % RH Atmospheric Pressure: 1020 mbar
 Test mode: 31: TX mode_Keep the EUT in transmitting mode

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

Please refer to Appendix for WCDMA test data.

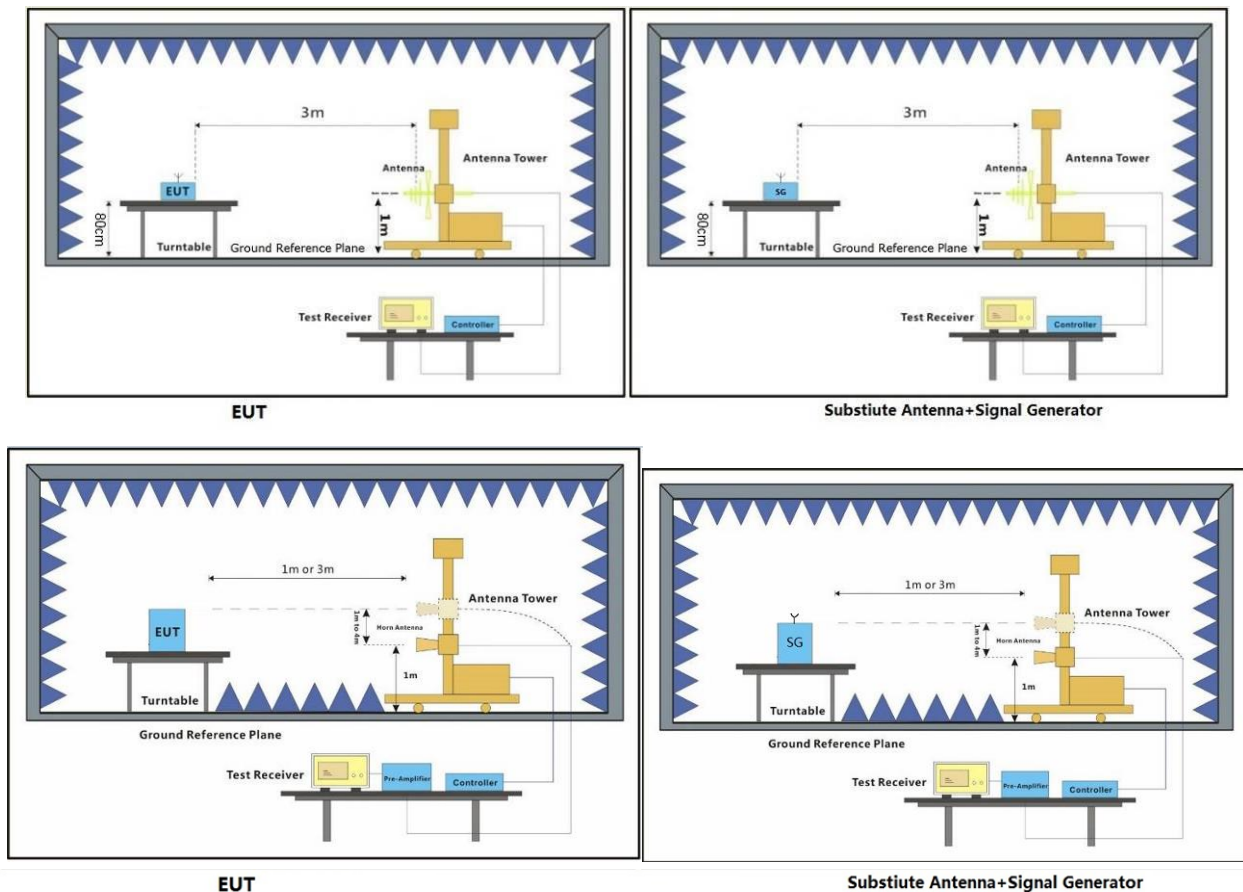
6.2 Field strength of spurious radiation

Test Requirement: §2.1051, §22.917, §24.238, §27.53(h)
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: $\leq -13\text{dBm}$

6.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.5 °C Humidity: 49.5 % 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 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 then 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	-58.32	-13	-45.32	-63.18	3.58	8.44	Horizontal	Pass
5557.2	-62.19	-13	-49.19	-67.9	4.74	10.45	Horizontal	Pass
7409.6	-60.0	-13	-47.0	-66.69	4.94	11.63	Horizontal	Pass
3704.8	-58.68	-13	-45.68	-63.54	3.58	8.44	Vertical	Pass
5557.2	-61.9	-13	-48.9	-67.61	4.74	10.45	Vertical	Pass
7409.6	-60.42	-13	-47.42	-67.11	4.94	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	-59.22	-13	-46.22	-64.11	3.63	8.52	Horizontal	Pass
5640.0	-62.29	-13	-49.29	-67.99	4.75	10.45	Horizontal	Pass
7520.0	-58.41	-13	-45.41	-65.23	4.94	11.76	Horizontal	Pass
3760.0	-61.0	-13	-48.0	-65.89	3.63	8.52	Vertical	Pass
5640.0	-61.72	-13	-48.72	-67.42	4.75	10.45	Vertical	Pass
7520.0	-58.94	-13	-45.94	-65.76	4.94	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	-57.81	-13	-44.81	-62.72	3.68	8.59	Horizontal	Pass
5722.8	-62.53	-13	-49.53	-68.22	4.76	10.45	Horizontal	Pass
7630.4	-57.63	-13	-44.63	-64.57	4.95	11.89	Horizontal	Pass
3815.2	-60.63	-13	-47.63	-65.54	3.68	8.59	Vertical	Pass
5722.8	-61.85	-13	-48.85	-67.54	4.76	10.45	Vertical	Pass
7630.4	-58.17	-13	-45.17	-65.11	4.95	11.89	Vertical	Pass



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WCDMA Band 4-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
3424.8	-55.22	-13	-42.22	-59.84	3.36	7.98	Horizontal	Pass
5137.2	-62.22	-13	-49.22	-67.84	4.61	10.23	Horizontal	Pass
6849.6	-60.96	-13	-47.96	-67.0	4.9	10.94	Horizontal	Pass
3424.8	-49.81	-13	-36.81	-54.43	3.36	7.98	Vertical	Pass
5137.2	-62.19	-13	-49.19	-67.81	4.61	10.23	Vertical	Pass
6849.6	-60.14	-13	-47.14	-66.18	4.9	10.94	Vertical	Pass

WCDMA Band 4-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
3465.2	-61.12	-13	-48.12	-65.82	3.38	8.08	Horizontal	Pass
5197.8	-62.63	-13	-49.63	-68.26	4.63	10.26	Horizontal	Pass
6930.4	-47.27	-13	-34.27	-53.4	4.91	11.04	Horizontal	Pass
3465.2	-54.18	-13	-41.18	-58.88	3.38	8.08	Vertical	Pass
5197.8	-60.71	-13	-47.71	-66.34	4.63	10.26	Vertical	Pass
6930.4	-43.89	-13	-30.89	-50.02	4.91	11.04	Vertical	Pass

WCDMA Band 4-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
3505.2	-60.23	-13	-47.23	-65.01	3.4	8.18	Horizontal	Pass
5257.8	-62.49	-13	-49.49	-68.14	4.65	10.3	Horizontal	Pass
7010.4	-59.13	-13	-46.13	-65.35	4.92	11.14	Horizontal	Pass
3505.2	-54.87	-13	-41.87	-59.65	3.4	8.18	Vertical	Pass
5257.8	-60.84	-13	-47.84	-66.49	4.65	10.3	Vertical	Pass
7010.4	-58.33	-13	-45.33	-64.55	4.92	11.14	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	-51.91	-13	-38.91	-54.78	2.62	5.49	Horizontal	Pass
2479.2	-55.95	-13	-42.95	-58.65	3.07	5.77	Horizontal	Pass
3305.6	-59.78	-13	-46.78	-64.16	3.3	7.68	Horizontal	Pass
1652.8	-50.76	-13	-37.76	-53.63	2.62	5.49	Vertical	Pass
2479.2	-50.34	-13	-37.34	-53.04	3.07	5.77	Vertical	Pass
3305.6	-53.27	-13	-40.27	-57.65	3.3	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	-51.22	-13	-38.22	-54.03	2.63	5.44	Horizontal	Pass
2509.2	-52.37	-13	-39.37	-55.13	3.08	5.84	Horizontal	Pass
3345.6	-58.89	-13	-45.89	-63.35	3.32	7.78	Horizontal	Pass
1672.8	-50.56	-13	-37.56	-53.37	2.63	5.44	Vertical	Pass
2509.2	-52.76	-13	-39.76	-55.52	3.08	5.84	Vertical	Pass
3345.6	-52.76	-13	-39.76	-57.22	3.32	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	-53.12	-13	-40.12	-55.88	2.63	5.39	Horizontal	Pass
2539.8	-53.07	-13	-40.07	-55.89	3.09	5.91	Horizontal	Pass
3386.4	-57.05	-13	-44.05	-61.6	3.34	7.89	Horizontal	Pass
1693.2	-51.43	-13	-38.43	-54.19	2.63	5.39	Vertical	Pass
2539.8	-48.13	-13	-35.13	-50.95	3.09	5.91	Vertical	Pass
3386.4	-52.2	-13	-39.2	-56.75	3.34	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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7 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2508003663AT

8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2508003663AT

- End of the Report -

