Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

TEST REPORT

FCC Part 22 Subpart H

Report Reference No.: CTA25050803002 FCC ID. 2BPTB-CTAB12

Compiled by

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May 20, 2025 Date of issue:

Testing Laboratory Name.....: Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community,

Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name LEON TRADE(H.K.)CO.,LIMITED.

FLAT/RM 1201 12/F TAI SANG BANK BUILDING 130-132 DES

VOEUX ROAD CENTRAL HK, China

Test specification....:

FCC CFR Title 47 Part 2, Part 22H

Standard ANSI/TIA-603-E-2016

KDB 971168 D01

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Test item description...... 11.97 inch Tablet

Trade Mark.....: Callsky

CTA TESTING Manufacturer.....: SHENZHEN NST INDUSTRY AND TRADE CO.,LTD

Model/Type reference Ctab 12

Listed Models: N/A

Modulation: QPSK

Frequency...... UMTS Band V

Ratings.....: Input: 5.0V === 3.0A, 9.0V === 2.22A, 12.0V === 1.5A

Battery: 3.80V 8000mAh 30.40Wh

Result..... PASS

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TEST REPORT

Equipment under Test 11.97 inch Tablet

Model /Type Ctab 12

Listed Models Cpad 12, Ctab 12 Pro, Cpad 12 Pro, Ctab 12 Plus, Cpad 12 Plus

The PCB board, circuit, structure and internal of these models are the Model difference

same, Only model number and colour is different for these model.

LEON TRADE(H.K.)CO.,LIMITED. **Applicant**

FLAT/RM 1201 12/F TAI SANG BANK BUILDING 130-132 DES Address

VOEUX ROAD CENTRAL HK, China

SHENZHEN NST INDUSTRY AND TRADE CO.,LTD **Manufacturer**

Room 501, Building 2, Baolong Specialized and Sophisticated Industrial Address

Park, No.16 Baolong Third Road, Longgang, Shenzhen, China

	C/L
Test result	Pass *

* In the configuration tested, the EUT complied with the standards specified page 4.

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



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1 SUMMARY

1.1 TEST STANDARDS

The tests were performed according to following standards:

FCC Part 2: FREQUENCY ALLOCA-TIONS AND RADIO TREATY MAT-TERS; GENERAL RULES AND REG-ULATIONS

FCC Part 22 Subpart H: PRIVATE LAND MOBILE RADIO SERVICES.

<u>ANSI/TIA-603-E-2016:</u> Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

<u>ANSI C63.10-2013</u> Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

FCCKDB971168D01 Power Meas License Digital Systems

1.2 Test Description

Test Item	Section in CFR 47	Result	
RF Output Power	Part 2.1046 Part 22.913 (a)(2)	Pass	
Peak-to-Average Ratio	Part 24.232 (d)	Pass	
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 22.917	Pass	
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 22.917 (a)	Pass	
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917 (a)	Pass	
Out of band emission, Band Edge	Part 22.917 (a)	Pass	
Frequency stability	Part 2.1055 Part 22.355	Pass	

1.3 Address of the test laboratory

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

1.4 Test Facility

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

FCC-Registration No.: 517856 Designation Number: CN1318

Shenzhen CTA Testing Technology Co., Ltd. Has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

Industry Canada Registration Number. Is: 27890 CAB identifier: CN0127

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

A2LA-Lab Cert. No.: 6534.01

Shenzhen CTA Testing Technology Co., Ltd. Has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

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The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

1.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen CTA Testing Technology Co., Ltd. Quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen CTA Testing Technology Co., Ltd.: CTATES

Test	Range	Measuremen t Uncertainty	Notes
Radiated Emission	30~1000MHz	4.06 dB	(1)
Radiated Emission	1~18GHz	5.14 dB	(1)
Radiated Emission	18-40GHz	5.38 dB	(1)
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)
Output Peak power	30MHz~18GHz	0.55 dB	(1)
Power spectral density	1	0.57 dB	(1)
Spectrum bandwidth	1	1.1%	(1)
Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.10 dB	(1)
Radiated spurious emission (1GHz-18GHz)	1~18GHz	4.32 dB	(1)
Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.54 dB	3 (1)

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the CTATEST 95% confidence level using a coverage factor of k=2.



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GENERAL INFORMATION

2.1 Environmental conditions

Date of receipt of test sample		May 08, 2025
STING		
Testing commenced on	:	May 08, 2025
CIL		STING
Testing concluded on	:	May 20, 2025

During the measurement the environmental co	onditions were within the listed ranges:	
Normal Temperature:	25°C	TA V
Relative Humidity:	55 %	
Air Pressure:	101 kPa	

2.2 General Description of EUT

Product Name:	11.97 inch Tablet
Model/Type reference:	Ctab 12
Power supply:	Input: 5.0V === 3.0A, 9.0V === 2.22A, 12.0V === 1.5A Battery: 3.80V 8000mAh 30.40Wh
Adapter information:	Model: PN204U Input: AC 100-240V 50/60Hz 0.5A Output: DC 5.0V 3.0A, 9.0V 2.22A, 12.0V 1.5A
Hardware version:	V1.0
Software version:	V1.0
Testing sample ID:	CTA250508030-1# (Engineer sample) CTA250508030-2# (Normal sample)
WCDMA	
Operation Band:	FDD Band V
Power Class:	Power Class 3
Modilation Type:	QPSK for WCDMA/HSUPA/HSDPA,16QAM for HSPA+
Release Version:	R8
Antenna type:	PIFA Antenna
Antenna gain:	-1.2dBi

Note: For more details, refer to the user's manual of the EUT.



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2.3 Description of Test Modes and Test Frequency

The EUT has been tested under typical operating condition. The CUM200 used to control the EUT staying in continuous transmitting and receiving mode for testing. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

Test Frequency:

cott requestoy.	
FDD Band	d V
Channel	Frequency (MHz)
4132	826.40
4182	836.60
4233	846.60

Test Modes:

The test mode(s) are selected according to relevant radio technology specifications.

Test Mode	Test Modes Description
Mode 1	WCDMA system, QPSK modulation
Mode 2	HSDPA system, QPSK modulation
Mode 3	HSUPA system, QPSK modulation

Note:

 As HSDPA and HSUPA with the same emission designator, test result recorded in this report at the worst case Mode 4 with RCM 12.2Kbps only after exploratory scan.



2.4 Equipments Used during the Test

	Test Equipment	Manufacturer	Model No.	Equipment No.	Calibration Date	Calibration Due Date
-	LISN 45	R&S	ENV216	CTA-308	2024/08/03	2025/08/02
	LISN	R&S	ENV216	CTA-314	2024/08/03	2025/08/02
	EMI Test Receiver	R&S	ESPI	CTA-307	2024/08/03	2025/08/02
	EMI Test Receiver	R&S	ESCI	CTA-306	2024/08/03	2025/08/02
	Spectrum Analyzer	Agilent	N9020A	CTA-301	2024/08/03	2025/08/02
	Spectrum Analyzer	R&S	FSU	CTA-337	2024/08/03	2025/08/02
	Vector Signal generator	Agilent	N5182A	CTA-305	2024/08/03	2025/08/02
	Analog Signal Generator	R&S	SML03	CTA-304	2024/08/03	2025/08/02
	WIDEBAND RADIO COMMUNICATIO N TESTER	CMW500	R&S	CTA-302	2024/08/03	2025/08/02
	Temperature and humidity meter	Chigo	ZG-7020	CTA-326	2024/08/03	2025/08/02
	Ultra-Broadband Antenna	Schwarzbeck	VULB9163	CTA-310	2023/10/17	2026/10/16
	Horn Antenna	Schwarzbeck	BBHA 9120D	CTA-309	2023/10/13	2026/10/12
	Loop Antenna	Zhinan	ZN30900C	CTA-311	2023/10/17	2026/10/16
	Broadband Horn Antenna	A-INFOMW	LB-180500H- 2.4F	CTA-336	2023/09/13	2026/09/12
	Amplifier	Schwarzbeck	BBV 9745	CTA-312	2024/08/03	2025/08/02
	Amplifier	Taiwan chengyi	EMC051845B	CTA-313	2024/08/03	2025/08/02
	Directional coupler	NARDA	4226-10	CTA-303	2024/08/03	2025/08/02
	High-Pass Filter	XingBo	XBLBQ-GTA18	CTA-402	2024/08/03	2025/08/02
	High-Pass Filter	XingBo	XBLBQ-GTA27	CTA-403	2024/08/03	2025/08/02
	Automated filter bank	Tonscend	JS0806-F	CTA-404	2024/08/03	2025/08/02
	Power Sensor	Agilent	U2021XA	CTA-405	2024/08/03	2025/08/02
	Amplifier	Schwarzbeck	BBV9719	CTA-406	2024/08/03	2025/08/02
				Varaian	Calibration	Calibration

Test Equipment	Manufacturer	Model No.	Version number	Calibration Date	Calibration Due Date	1500
EMI Test Software	Tonscend	TS®JS32-RE	5.0.0.2	N/A	N/A	E
EMI Test Software	Tonscend	TS®JS32-CE	5.0.0.1	N/A	N/A	
RF Test Software	Tonscend	TS®JS1120-3	3.1.65	N/A	N/A	
RF Test Software	Tonscend	TS®JS1120	3.1.46	N/A	N/A	-7
TESTING			(CO)		CTAT	ES



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2.5 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is filing to comply with of the FCC Part 22 Rules.

2.6 Modifications

No modifications were implemented to meet testing criteria.

CTATES

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3 TEST CONDITIONS AND RESULTS

3.1 Output Power

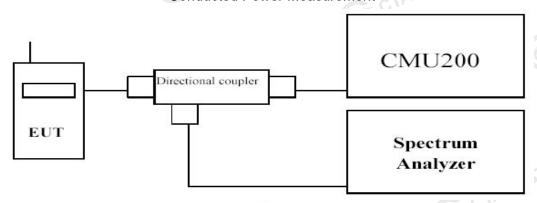
LIMIT

WCDMA Band V: 7W

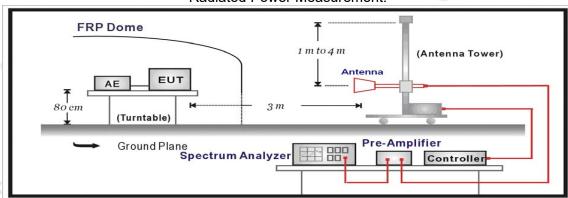
The Peak-to-Average Ratio (PAR) of the transmission may not exceed 13 Db.

TEST CONFIGURATION

Conducted Power Measurement



Radiated Power Measurement:



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603C

Conducted Power Measurement:

- a) Place the EUT on a bench and set it in transmitting mode.
- b) Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMU200 by a Directional Couple.
- c) EUT Communicate with CMU200 then selects a channel for testing.
- d) Add a correction factor to the display of spectrum, and then test.

Radiated Power Measurement:

- a) The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
- b) The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter
- c) The output of the test antenna shall be connected to the measuring receiver.
- d) The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the transmitter under test.

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e) The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.

- f) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- g) The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- h) The maximum signal level detected by the measuring receiver shall be noted.
- i) The transmitter shall be replaced by a substitution antenna.
- j) The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
- k) The substitution antenna shall be connected to a calibrated signal generator.
- I) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- m) The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- n) The input signal to the 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 attenuator setting of the measuring receiver.
- The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
- p) The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.



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TEST RESULTS

Conducted Measurement:

		Don't	FDD I	FDD Band V result (dBm)		
	Item	Band	Test Channel			
		ARFCN	4132	4183	4233	
Ī	RMC	12.2kbps RMC	23.69	23.63	23.67	
		Sub - Test 1	23.47	23.55	23.49	
	LIODDA	Sub - Test 2	22.91	22.91	22.90	
	HSDPA	Sub - Test 3	22.86	22.89	22.86	
		Sub - Test 4	22.83	22.81	22.79	
Ī		Sub - Test 1	22.72	22.77	22.78	
		Sub - Test 2	22.72	22.76	22.88	
- T D	HSUPA	Sub - Test 3	22.84	22.82	22.81	
CTP		Sub - Test 4	22.80	22.72	22.75	
1		Sub - Test 5	22.88	22.84	22.89	

EM CTATEST

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Radiated Measurement:

Note: 1. The field strength of radiation emission was measured in the following position: EUT standup position (Zaxis), lie-down position (X, Y axis). The data show in this report only with the worst case setup. After exploratory measurement the worst case of Z axis was reported.

Note: 2. We test the H direction and V direction and V direction is worse.

WCDMA BAND V

	A STANLEY OF THE STAN	WCDMA BAND V								
	Channel	P _{Mea} (dBm)	P _{cl} (dB)	G₂ Antenna Gain(dB)	Correction (dB)	P _{Ag} (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
Ī	4132	-15.81	2.42	8.45	36.82	2.15	24.89	38.45	-13.56	V CTP
ſ	4183	-15.36	2.46	8.45	36.82	2.15	25.30	38.45	-13.15	V
	4233	-16.21	2.53	8.36	36.82	2.15	24.29	38.45	-14.16	V

Remark:

- 1. $EIRP=P_{Mea}(dBm)-P_{cl}(dB)+P_{Ag}(dB)+G_a(dBi)$
- 2. ERP = EIRP 2.15dBi as EIRP by subtracting the gain of the dipole.

CTATEST

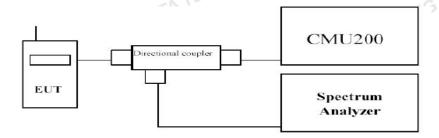
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3.2 Occupied Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

- The EUT's output RF connector was connected with a short cable to the spectrum analyzer
- RBW was set to about 1% of emission BW, VBW≥3 times RBW.
- -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

TEST RESULTS

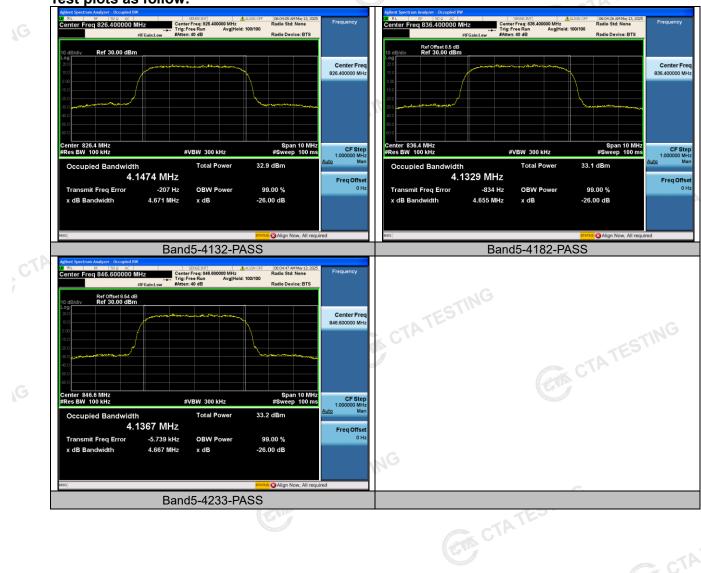
EUT Mode	Channel	Frequency (MHz)	99% Occupy bandwidth (MHz)	-26dB bandwidth (MHz)	
	4132	4132	4.1474	4.671	
WCDMA Band V (QPSK)	4183	4182	4.1329	4.655	
(41 511)	4233	4233	4.1367	4.667	
STING				CTA	



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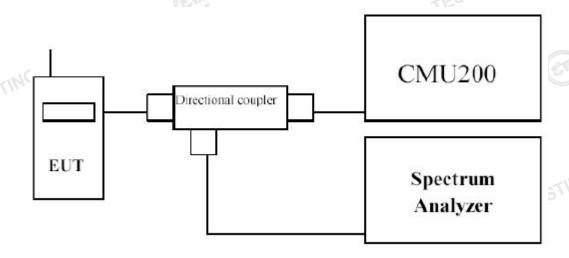
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3.3 Band Edge compliance

LIMIT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10log (P) dB.

TEST CONFIGURATION

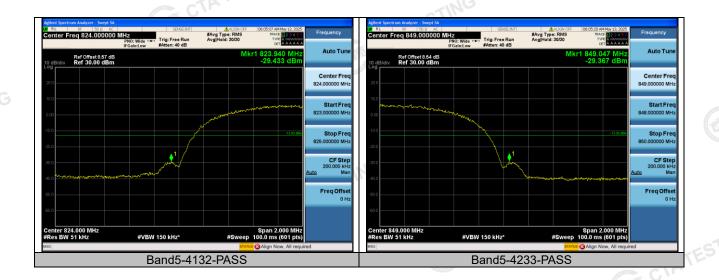


TEST PROCEDURE

In the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.

TEST RESULTS

•	TEST RESU	<u>JLTS</u>		GM CTA				
	Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict		
Ī	Band5	4132	823.94	-29.43	-13	PASS		
	Band5	4233	849.05	-29.37	-13	PASS		



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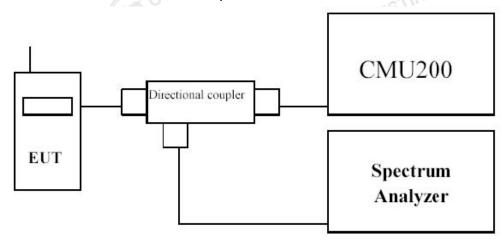
3.4 Spurious Emission

LIMIT

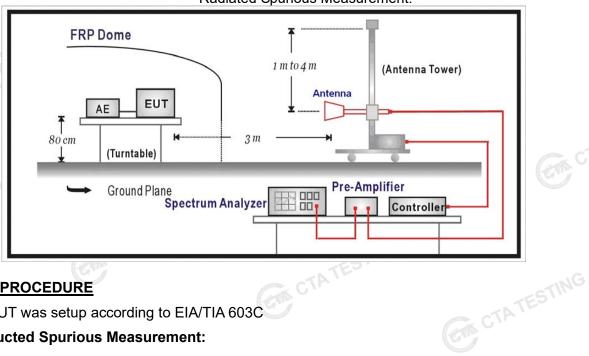
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10log (P) dB.

TEST CONFIGURATION

Conducted Spurious Measurement:



Radiated Spurious Measurement:



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603C

Conducted Spurious Measurement:

- Place the EUT on a bench and set it in transmitting mode.
- Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMU200 by a Directional Couple.
- EUT Communicate with CMU200 then selects a channel for testing.
- Add a correction factor to the display of spectrum, and then test.
- The resolution bandwidth of the spectrum analyzer was set at 1MHz for Part 22 and 1MHz for CTATEST Part 24, sufficient scans were taken to show the out of band Emission if any up to 10th harmonic.

Radiated Spurious Measurement:

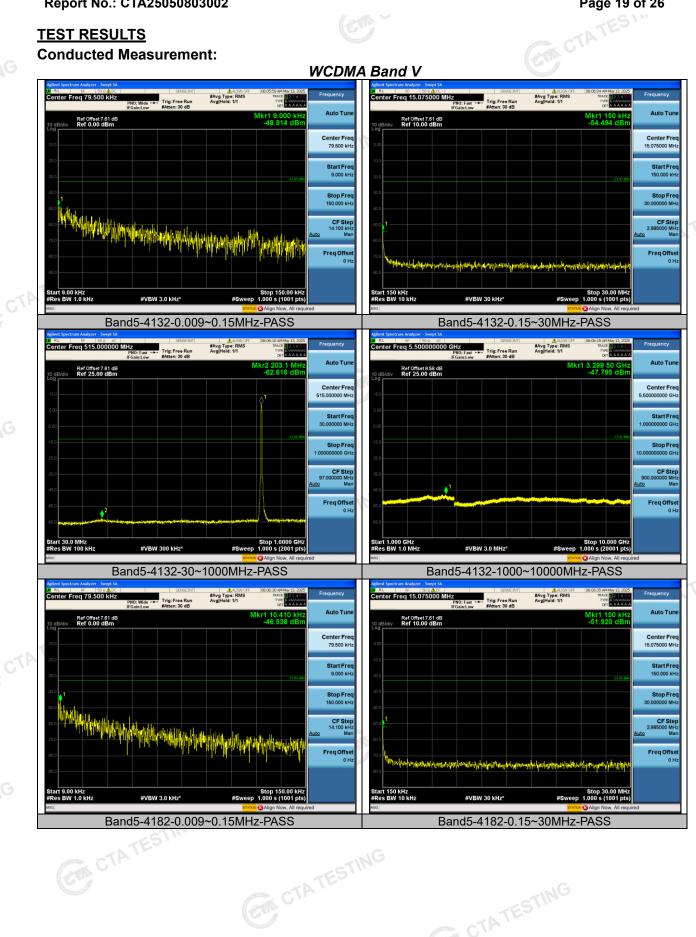
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a) The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.

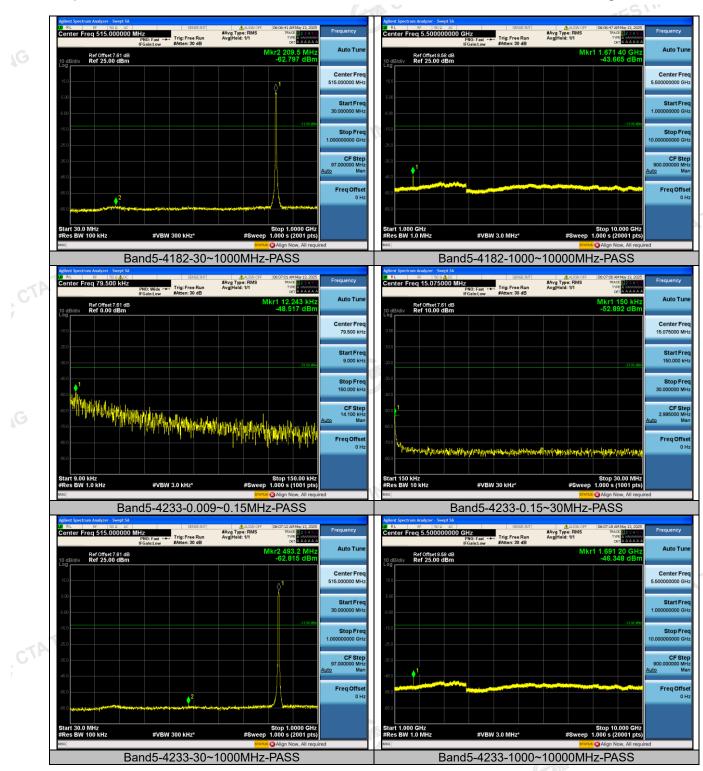
- b) The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter
- c) The output of the test antenna shall be connected to the measuring receiver.
- d) The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- e) The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
- f) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- g) The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- h) The maximum signal level detected by the measuring receiver shall be noted.
- i) The transmitter shall be replaced by a substitution antenna.
 - j) The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
 - k) The substitution antenna shall be connected to a calibrated signal generator.
 - I) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
 - m) The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
 - n) The input signal to the 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 attenuator setting of the measuring receiver.
 - o) The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
 - p) The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.
 - q) The resolution bandwidth of the spectrum analyzer was set at 100 kHz for Part 22 and 1MHz for Part 24. The frequency range was checked up to 10th harmonic.

TEST RESULTS

Conducted Measurement:









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Radiated Measurement:

WCDMA Band V

Channel	Frequency (MHz)	PMea (dBm)	Pcl (dB)	Diatance	Ga Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
	-35.99	3.02	3.00	9.58	-29.43	-13	-16.43	-35.99	9 H 9 H 2 V 3 V 2 H 3 H 1 V 6 V 1 H 3 H
9262	-40.69	3.51	3.00	10.72	-33.48	-13	-20.48	-40.69	
9202	-34.22	3.02	3.00	9.68	-27.56	-13	-14.56	(dB) Polariz 3 -35.99 H 3 -40.69 H 5 -34.22 V 2 -38.73 V 5 -36.22 H 5 -41.13 H 4 -34.81 V 8 -39.06 V 8 -35.91 H 9 -39.93 H 8 -34.46 V	V
	-38.73	3.51	3.00	10.72	-31.52	-13	-18.52	-38.73	V
	-36.22	3.14	3.00	9.61	-29.75	-13	-16.75	-36.22	Н
9400	-41.13	3.59	3.00	10.77	-33.95	-13 G	-20.95	(dB) Polariz -35.99 H -40.69 H -34.22 V -38.73 V -36.22 H -41.13 H -34.81 V -39.06 V -35.91 H -39.93 H -34.46 V	Н
3400	-34.81	3.14	3.00	9.61	-28.34	-13	-15.34	-34.81	99 H 69 H 22 V 73 V 22 H 13 H 81 V 06 V 91 H 93 H
	-39.06	3.59	3.00	10.77	-31.88	-13	-18.88	-39.06	V C
10	-35.91	3.24	3.00	9.77	-29.38	-13	-16.38	-35.91	H
9538	-39.93	3.65	3.00	10.89	-32.69	-13	-19.69	-39.93	H H V V H H V V
9556	-34.46	3.24	3.00	9.77	-27.93	-13	-14.93	-34.46	V
CAL	-37.38	3.65	3.00	10.89	-30.14	-13	-17.14	-37.38	V

Remark:



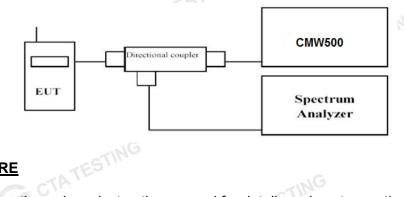
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3.5 Peak-to-Average Ratio (PAR)

LIMIT

The Peak-to-Average Ratio (PAR) of the transmission may not exceed 13 dB.

TEST CONFIGURATION



CTATESTING **TEST PROCEDURE**

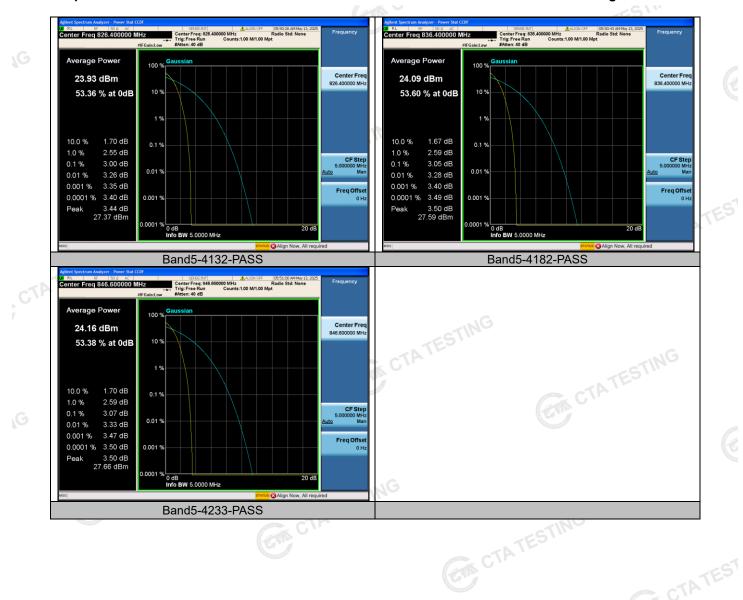
- 1. Refer to instrument's analyzer instruction manual for details on how to use the power

- 2. 201 resolution/measurement bandwidth ≥ signal's occupied bandwidth;
 3. Set the number of counts to a value that stabilizes the measured CCDF curve;
 4. Set the measurement interval as follows: 1). for continuous transmissions applied to burst transmissions. burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
- 5. Record the maximum PAPR level associated with a probability of 0.1%.

TEST RESULTS

Pass
Pass
Pass





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CTATESTING

CTATESTING

CTATESTING

CTATESTING

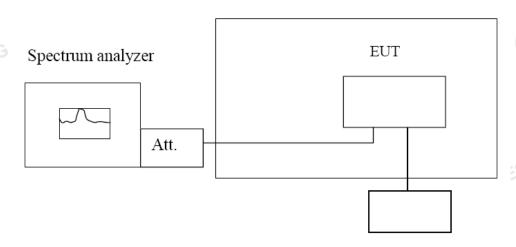
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3.6 Frequency Stability under Temperature & Voltage Variations LIMIT

Cellular Band: ±2.5ppm PCS Band: Within the authorized frequency block

TEST CONFIGURATION

Temperature Chamber



Variable Power Supply

TEST PROCEDURE

The EUT was setup according to EIA/TIA 603C

Frequency Stability under Temperature Variations:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Frequency Stability under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

TEST RESULTS

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	Report No.: CTA2505	0803002	(CIA)		Page 25 of 26				
	Reference Frequency: WCDMA Band V Middle channel=4182 channel=836.6MHz								
3	\	Temperature	Frequen	icy error	Limit (nnn)	Dogult			
	Voltage (V)	_N G (°C)	Hz	ppm	Limit (ppm)	Result			
	CTATEST	-30	9	0.011					
	CTA.	-20	31116	0.004					
	GVI.	-10	-15	-0.018	NG				
		0	12	0.015	ESTING				
	3.80	10	17	0.021					
		20	-2	-0.002	±2.5	Pass			
		30	12	0.015					
		40	-12	-0.015					
7	ESI	50	-6	-0.007					
(P	4.20	25	-9	-0.011					
	End point 3.40	25	-2	-0.002					
	(et		CTP CTP	TESTIN	CTAT	ESTING			

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Test Setup Photos of the EUT

Please refer to separated files for Test Setup Photos of the EUT.

5 **External and Internal Photos of the EUT**

Please refer to separated files for External Photos & Internal Photos of the EUT.

CTATE