

Shenzhen CTA Testing Technology Co., Ltd.

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

	TEST REPORT 2 Subpart H / Part 24 Subpart E/ Part 27
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Compiled by	CTA ING
(position+printed name+signature) .:	File administrators Jinghua Xiao
Supervised by	Constant Carl
(position+printed name+signature) .:	Project Engineer Zoey Cao
Approved by	approved
(position+printed name+signature) .:	RF Manager Eric Wang
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Testing Laboratory Name	Shenzhen CTA Testing Technology Co., Ltd.
Address	Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Baoʻan District, Shenzhen, China
Applicant's name:	Shenzhen kehuitong Technology Co., Ltd.
Address:	F3.830306G, 3rd Floor, Tianan Code City Tianjing Building, No.6 Tianan Road, Shatou Street, Futian District, Shenzhen, China
Test specification:	G
Test specification:	ECC CEP Title 47 Port 2 Port 22H Port 24E and Port 27
Test specification: Standard	FCC CFR Title 47 Part 2, Part 22H, Part 24E and Part 27
GIACI	ANSI/TIA-603-E-2016 KDB 971168 D01
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Standard	ANSI/TIA-603-E-2016 KDB 971168 D01 Co., Ltd. All rights reserved. whole or in part for non-commercial purposes as long as the b., Ltd. is acknowledged as copyright owner and source of the nology Co., Ltd. takes no responsibility for and will not assume liability 's interpretation of the reproduced material due to its placement and mobile phone Aidekunlin Shenzhen kehuitong Technology Co., Ltd. U100 U24, U25, U26, U27, U28, U29, U30, U31, U32, U33, U34, U35, U70, U70U, U80, U80U, U90, U90U, U60, U12pro, U13pro, U14pro, U27pro, U200, U300, U400, U500, U600, U700 DC 3.8V From battery and DC 5.0V From external circuit QPSK UMTS Band II, UMTS Band IV, UMTS Band V

TEST REPORT

Equipment under Test : mobile phone Model /Type : U100 Listed Models : U24, U25, U26, U27, U28, U29, U30, U31, U32, U33, U3, U70, U700, U800, U800, U900, U600, U700, U14pro, U27pro, U200, U300, U400, U500, U600, U700 Applicant : Shenzhen kehuitong Technology Co., Ltd. Address : F3.830306G, 3rd Floor, Tianan Code City Tianjing Buildin Tianan Road, Shatou Street, Futian District, Shenzhen, C Manufacturer : Shenzhen kehuitong Technology Co., Ltd. Address : F3.830306G, 3rd Floor, Tianan Code City Tianjing Buildin Tianan Road, Shatou Street, Futian District, Shenzhen, C Manufacturer : F3.830306G, 3rd Floor, Tianan Code City Tianjing Buildin Tianan Road, Shatou Street, Futian District, Shenzhen, C Manufacturer : F3.830306G, 3rd Floor, Tianan Code City Tianjing Buildin Tianan Road, Shatou Street, Futian District, Shenzhen, C In the configuration tested, the EUT complied with the standards specified page 4. The test report merely corresponds to the test sample. to opper wirder to copy extracts of these test result without the written permission of the test opper term for the form of the test sample. It is not permitted to copy extracts of these test result without the written permission of the test opper term form the form of the test sample. It is not permitted to copy extracts of these test result without the written permission of the test opper term form the form of the test sample.	under Test : mobile phone we : U100 tels : U24, U25, U26, U27, U28, U29, U30, U31, U32, U33, U34, U35 U70, U70U, U80, U80U, U90, U90U, U60, U12pro, U13pro, U14pro, U27pro, U200, U300, U400, U500, U600, U700 : Shenzhen kehuitong Technology Co., Ltd. : F3.830306G, 3rd Floor, Tianan Code City Tianjing Building, No.1 : F3.830306G, 3rd Floor, Tianan Code City Tianjing Building, No.1 : F3.830306G, 3rd Floor, Tianan Code City Tianjing Building, No.1 : F3.830306G, 3rd Floor, Tianan Code City Tianjing Building, No.1 : F3.830306G, 3rd Floor, Tianan Code City Tianjing Building, No.1 : Test result Pass * : guration tested, the EUT complied with the standards specified page 4. or merely corresponds to the test sample. : inted to copy extracts of these test result without the written permission of the test labor : inted to copy extracts of these test result without the written permission of the test labor	ort No.: CTA24052101805	11 - 15- 5	Page 2 of
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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. FCC Part 24 Subpart E: PUBLIC MOBILE SERVICES FCC Part 27: MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES ANSI/TIA-603-E-2016: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards. ANSI C63.10-2013 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

1.2 Test Description	ESTING	
Test Item	Section in CFR 47	Result
RF Output Power	Part 2.1046 Part 22.913 (a)(2) Part 24.232 (c) Part 27.50(d)	Pass
Peak-to-Average Ratio	Part 24.232 (d) Part 27.50(d)	Pass
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 22.917 Part 24.238	NG Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 22.917 (a) Part 24.238 (a) Part 27.53(h)	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917 (a) Part 24.238 (a) Part 27.53(h)	Pass
Out of band emission, Band Edge	Part 22.917 (a) Part 24.238 (a) Part 27.53(h)	Pass
Frequency stability	Part 2.1055 Part 22.355 Part 24.235 Part 27.54	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 CTATEST SVSWR requirement for radiated emission above 1GHz.

1.4 Test Facility

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

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.

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 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. :

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)	1.5.5
Power spectral density	/	0.57 dB	(1)	Ŕ
Spectrum bandwidth	/	1.1%	(1)	212
Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.10 dB	(1)	
Radiated spurious emission (1GHz-18GHz)	1~18GHz	G 4.32 dB	(1)	
Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.54 dB	(1)	1

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



GENERAL INFORMATION 2

2.1 Environmental conditions

:	May 20, 2024
:	May 20, 2024
	TES
	May 29, 2024
	:

TATESTING During the measurement the environmental conditions were within the listed ranges:

During the measurement the environmental co	onditions were within the listed ranges:		
Normal Temperature:	25°C	2	
Relative Humidity:	55 %		
Air Pressure:	101 kPa	A DECEMBER OF	

2.2 General Description of EUT

t Name: Type reference: supply: r information ry test supplied by b): tre version: re version: sample ID : A	mobile phone U100 DC 3.8V From battery and DC 5.0V From external circuit Model: EP-TA20CBC Input: AC 100-240V 50/60Hz Output: DC 5V 2A V707IK_MB_V6.0_202311 22 V707IK_HDPLUS1600_Q0_V6.0_3_32_20240412_0857_V1.0.3_HUA _L300D14_WO_X100 CTA240521018-1# (Engineer sample) CTA240521018-2# (Normal sample)
supply: r information ry test supplied by b): are version: re version: sample ID :	DC 3.8V From battery and DC 5.0V From external circuit Model: EP-TA20CBC Input: AC 100-240V 50/60Hz Output: DC 5V 2A V707IK_MB_V6.0_202311 22 V707IK_HDPLUS1600_Q0_V6.0_3_32_20240412_0857_V1.0.3_HUA _L300D14_WO_X100 CTA240521018-1# (Engineer sample)
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re version: sample ID :	V707IK_HDPLUS1600_Q0_V6.0_3_32_20240412_0857_V1.0.3_HUA _L300D14_WO_X100 CTA240521018-1# (Engineer sample)
sample ID :	_L300D14_WO_X100 CTA240521018-1# (Engineer sample)
•	
Α	
on Band:	FDD Band II & Band IV & Band V
Class:	Power Class 3
ion Type:	QPSK for WCDMA/HSUPA/HSDPA,16QAM for HSPA+
e Version:	R8 TNG
a type:	PIFA antenna
gain:	FDD Band II: 1.1dBi FDD Band IV: 0.80 dBi FDD Band V: -0.60dBi
	Class: ion Type: e Version: a type:



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, CTATES then shown on this report. TING

Test Frequency:

FDD E	Band II	FDD I	Band IV	FDD	Band V
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
9262	1852.4	1312	1712.4	4132	826.40
9400	1880.0	1413	1732.6	4182	836.60
9538	1907.6	1513	1752.6	4233	846.60

Test Modes:

The test mode(s) are selected according	g 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
Nete	

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. CTATEST

2.4 Equipments Used during the Test

Equipment No. CTA-308 CTA-314 CTA-307 CTA-306 CTA-301 CTA-301 CTA-305 CTA-305 CTA-304 CTA-302	Calibration Date 2023/08/02 2023/08/02 2023/08/02 2023/08/02 2023/08/02 2023/08/02 2023/08/02 2023/08/02 2023/08/02 2023/08/02 2023/08/02 2023/08/02 2023/08/02 2023/08/02 2023/08/02	Calibratio Due Date 2024/08/0 2024/08/0 2024/08/0 2024/08/0 2024/08/0 2024/08/0 2024/08/0
No. CTA-308 CTA-314 CTA-307 CTA-306 CTA-301 CTA-3037 CTA-305 CTA-304	Date 2023/08/02 2023/08/02 2023/08/02 2023/08/02 2023/08/02 2023/08/02 2023/08/02 2023/08/02 2023/08/02	Due Date 2024/08/0 2024/08/0 2024/08/0 2024/08/0 2024/08/0 2024/08/0
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CTA-301 CTA-337 CTA-305 CTA-304 CTA-302	2023/08/02 2023/08/02 2023/08/02 2023/08/02	2024/08/0 2024/08/0 2024/08/0
CTA-337 CTA-305 CTA-304 CTA-302	2023/08/02 2023/08/02 2023/08/02	2024/08/0
CTA-305 CTA-304 CTA-302	2023/08/02 2023/08/02	2024/08/0
CTA-304 CTA-302	2023/08/02	
CTA-302	TAT	2024/08/0
	2023/08/02	
OTA 226	2020/00/02	2024/08/0
CTA-326	2023/08/02	2024/08/0
CTA-310	2021/08/07	2024/08/0
CTA-309	2021/08/07	2024/08/0
CTA-311	2021/08/07	2024/08/0
CTA-336	2021/08/07	2024/08/0
CTA-312	2023/08/02	2024/08/0
CTA-313	2023/08/02	2024/08/0
CTA-303	2023/08/02	2024/08/0
CTA-402	2023/08/02	2024/08/0
CTA-403	2023/08/02	2024/08/0
CTA-404	2023/08/02	2024/08/0
CTA-405	2023/08/02	2024/08/0
CTA-406	2023/08/02	2024/08/0
	CTA-309 CTA-311 CTA-336 CTA-312 CTA-313 CTA-303 CTA-402 CTA-402 CTA-404 CTA-405 CTA-406	CTA-309 2021/08/07 CTA-311 2021/08/07 CTA-336 2021/08/07 CTA-312 2023/08/02 CTA-313 2023/08/02 CTA-303 2023/08/02 CTA-402 2023/08/02 CTA-403 2023/08/02 CTA-404 2023/08/02 CTA-405 2023/08/02

Test Equipment	Manufacturer	Model No.	Version number	Calibration Date	Calibration Due Date
EMI Test Software	Tonscend	TS®JS32-RE	5.0.0.2	N/A	N/A
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	ES N/A	N/A

2.5 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: 2BE8S-U100 filing to comply with of the FCC Part 22 and Part 24 and Part 27 Rules.

2.6 Modifications

No modifications were implemented to meet testing criteria.

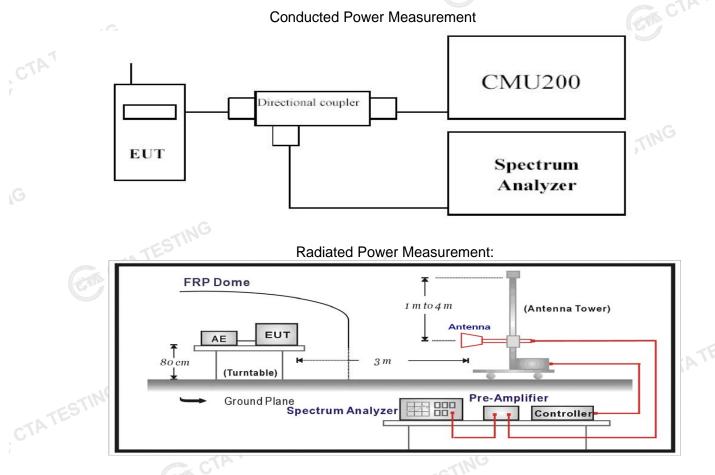
3 **TEST CONDITIONS AND RESULTS**

3.1 Output Power

LIMIT

WCDMA Band V: 7W WCDMA Band II: 2W WCDMA Band IV: 1W The Peak-to-Average Ratio (PAR) of the transmission may not exceed 13 Db.

TEST CONFIGURATION



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603C

Conducted Power Measurement:

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

Radiated Power Measurement:

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

- The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency d) of the transmitter under test.
- The test antenna shall be raised and lowered through the specified range of height until a e) maximum signal level is detected by the measuring receiver.
- The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum f) signal level is detected by the measuring receiver.
- The test antenna shall be raised and lowered again through the specified range of height until a g) maximum signal level is detected by the measuring receiver.
- h) The maximum signal level detected by the measuring receiver shall be noted.
- i)
- 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 transmission of transmis j)
- The substitution antenna shall be connected to a calibrated signal generator. k)
- CTPI) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
 - The test antenna shall be raised and lowered through the specified range of height to ensure m) that the maximum signal is received.
 - The input signal to the substitution antenna shall be adjusted to the level that produces a level n) 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 **o**) orientated for horizontal polarization.
 - The measure of the effective radiated power is the larger of the two levels recorded at the input p) to the substitution antenna, corrected for gain of the substitution antenna if necessary. CTA TESTING

Conducted Measurement:

	Report No.: CTA24052101805				age 12 of 35		
	TEST RESULTS						
1G	Conducted Measurement:			9			
		Band	FDD	Band II result (dB	3m)		
	ltem			Test Channel			
		ARFCN	9262	9400	9538		
	RMC	12.2kbps RMC	23.61	22.95	22.99		
		Sub – Test 1	22.10	21.71	22.06		
	HSDPA	Sub – Test 2	21.24	21.07	21.79		
	HSDFA	Sub – Test 3	21.27	21.10	20.97		
		Sub – Test 4	20.19	20.64	20.26		
		Sub – Test 1	22.38	21.74	22.09		
		Sub – Test 2	21.05	20.82	20.92		
	HSUPA	Sub – Test 3	21.21	21.79	20.99		
		Sub – Test 4	19.82	20.66	20.78		
CT		Sub – Test 5	20.65	20.63	20.49		
Ĭ		TES	. 6				
			FDD	Band IV result (d	Rm)		

	Dend	FDD Band IV result (dBm)					
Item	Band	Test Channel					
	ARFCN	1312	1412	1513 23.43			
RMC	12.2kbps RMC	23.44	23.46				
	Sub - Test 1	23.82	23.59	22.79			
	Sub - Test 2	22.38	22.64	22.34			
HSDPA	Sub - Test 3	21.50	21.02	21.31			
	Sub - Test 4	20.88	21.11	21.42			
	Sub - Test 1	20.63	20.09	20.36			
	Sub - Test 2	22.70	22.25	22.25			
HSUPA	Sub - Test 3	20.92	21.85	20.76			
	Sub - Test 4	21.78	21.67	21.52			
	Sub - Test 5	19.84	20.13	20.78			
	· ·	CTA C					

	Pand	FDD B	and V result (d	Bm)
Item	Band		Test Channel	
	ARFCN	4132	4183	4233
RMC	12.2kbps RMC	23.45	22.80	23.56
	Sub - Test 1	23.04	22.99	22.77
Церра	Sub - Test 2	22.47	22.31	21.77
HSDPA	Sub - Test 3	21.50	20.98	21.80
	Sub - Test 4	21.79	21.59	21.13
	Sub - Test 1	20.78	20.65	20.48
	Sub - Test 2	22.80	21.92	22.69
HSUPA	Sub - Test 3	21.66	21.82	21.13
	Sub - Test 4	21.43	20.81	21.04
	Sub - Test 5	20.62	20.72	20.61
GA CTATEST		i c.T.P	TESTING	

Radiated Measurement:

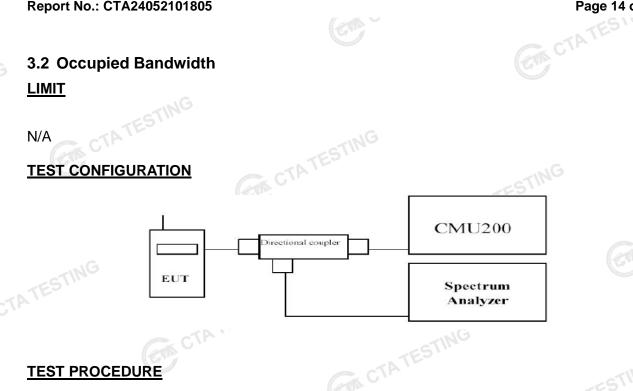
Note: 1. The field strength of radiation emission was measured in the following position: EUT standup position (Zaxis), lie-down position (X, Y axis). The data show in this report only with the worst case setup. After exploratory measurement the worst case of Z axis was reported. Note: 2. We test the H direction and V direction and V direction is worse.

C C	/r ·		WCI		DII			
Channel	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
9262	-16.12	3.41	10.24	33.6	24.31	33.01	-8.70	V
9400	-17.86	3.49	10.24	33.6	22.49	33.01	-10.52	VcTA
9538	-16.36	3.55	10.23	33.6	23.92	33.01	-9.09	V
TESTING			WC	MA BANE	או כ			and the second sec
						T		i

Channel	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1312	-17.78	3.15	9.58	33.6	22.25	30.00	-7.75	V
1413	-17.39	3.17	9.62	33.6	22.66	30.00	-7.34	SIV
1513	-17.73	3.26	9.71	33.6	22.32	30.00	-7.68	V
			WCI		v		and Chi	

				WCDMA I	BAND V		C		
Channel	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Correction (dB)	P _{Ag} (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
4132	-17.75	2.42	8.45	36.82	2.15	22.95	38.45	-15.50	V
4183	-16.72	2.46	8.45	36.82	2.15	23.94	38.45	-14.51	V
4233	-17.31	2.53	8.36	36.82	2.15	23.19	38.45	-15.26	V
Remark:			610				TES		
1. EIRP=	P _{Mea} (dBn		$B)+P_{Ag}(dB)+$			CC	(A)		

2. ERP = EIRP - 2.15dBi as EIRP by subtracting the gain of the dipole.



TEST PROCEDURE

- The EUT's output RF connector was connected with a short cable to the spectrum analyzer 1.
- RBW was set to about 1% of emission BW, VBW≥3 times RBW. 2.
- 3. -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.

EUT Mode	Channel	Frequency (MHz)	99% Occupy bandwidth (MHz)	-26dB bandwidth (MHz)
	9262	1852.4	4.1686	4.714
WCDMA Band II (QPSK)	9400	1880.0	4.1697	4.705
(QFOR)	9538	1907.6	4.1646	4.703
NG	1312	1712.4	4.1634	4.709
WCDMA Band VI	1413	1732.6	4.1640	4.704
(QPSK)	1513	1752.6	4.1779	4.731
and the second se	4132	826.4	4.1695	4.715
WCDMA Band V (QPSK)	4183	836.6	4.1575	4.701
	4233	846.6	4.1528	4.691
		0	Gr	CTA

TEST RESULTS

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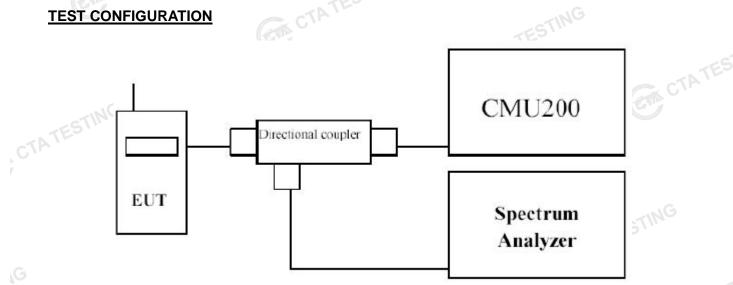


3.3 Band Edge compliance

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.

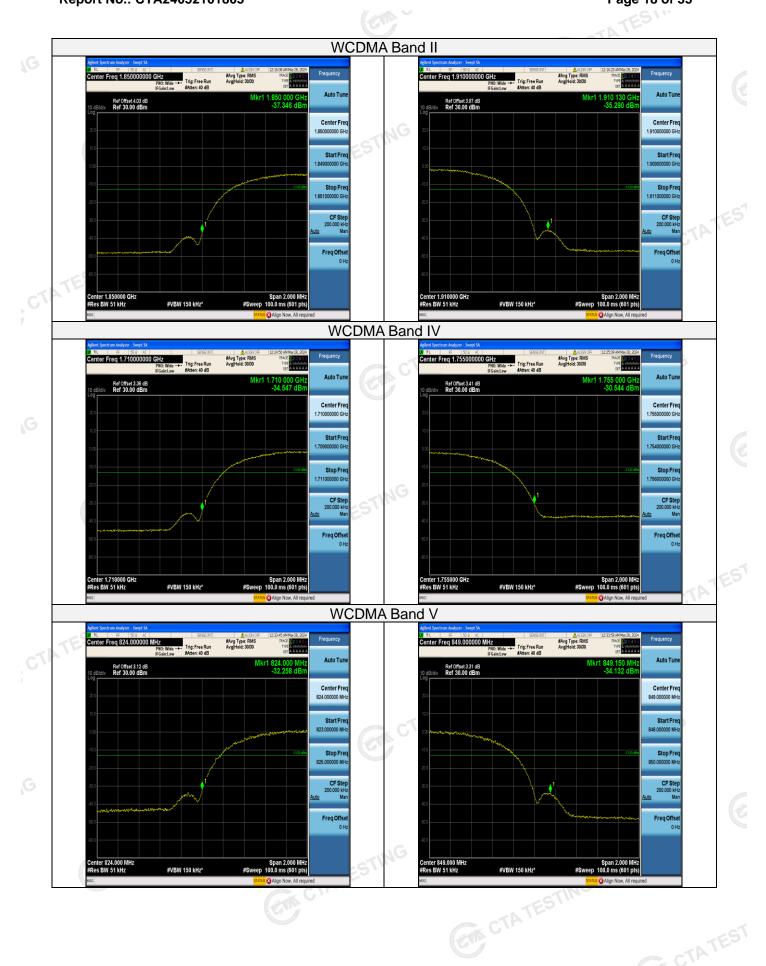
TEST CONFIGURATION



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 CTATES may be employed to measure the out of band Emissions.

TEST RESULTS



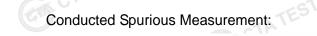
TATESTING

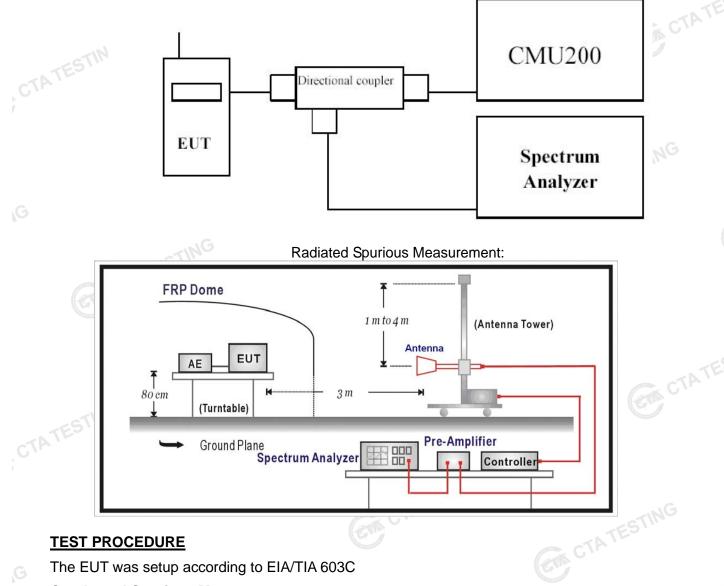
3.4 Spurious Emission

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





TEST PROCEDURE

The EUT was setup according to EIA/TIA 603C

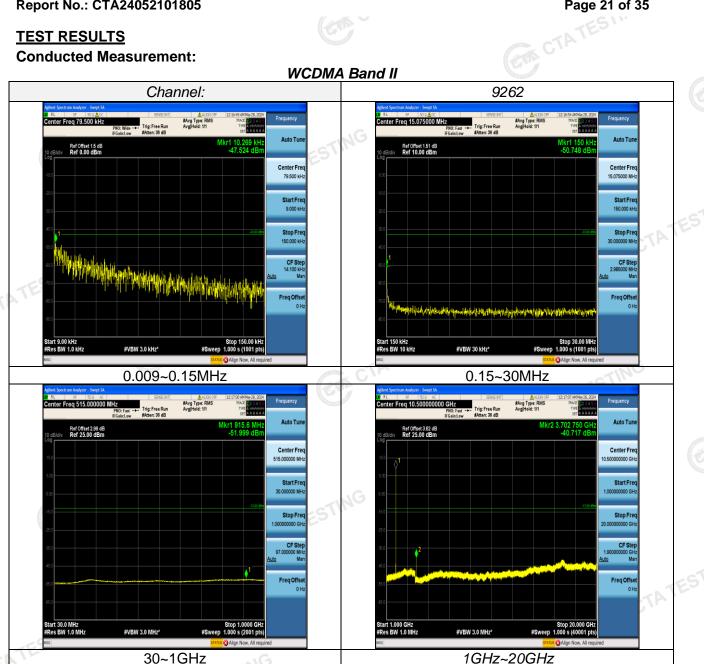
Conducted Spurious Measurement:

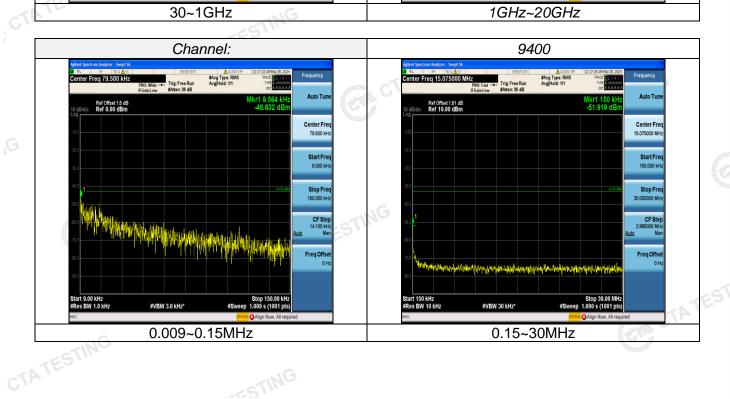
- Place the EUT on a bench and set it in transmitting mode. a)
- b) Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMU200 by a Directional Couple.
- EUT Communicate with CMU200 then selects a channel for testing. c)
- Add a correction factor to the display of spectrum, and then test. d)
- The resolution bandwidth of the spectrum analyzer was set at 1MHz for Part 22 and 1MHz for Part 24 sufficient scans were taken to above the sufficient of the set of e) Part 24, sufficient scans were taken to show the out of band Emission if any up to10th harmonic.
- **Radiated Spurious Measurement:** STING

- 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

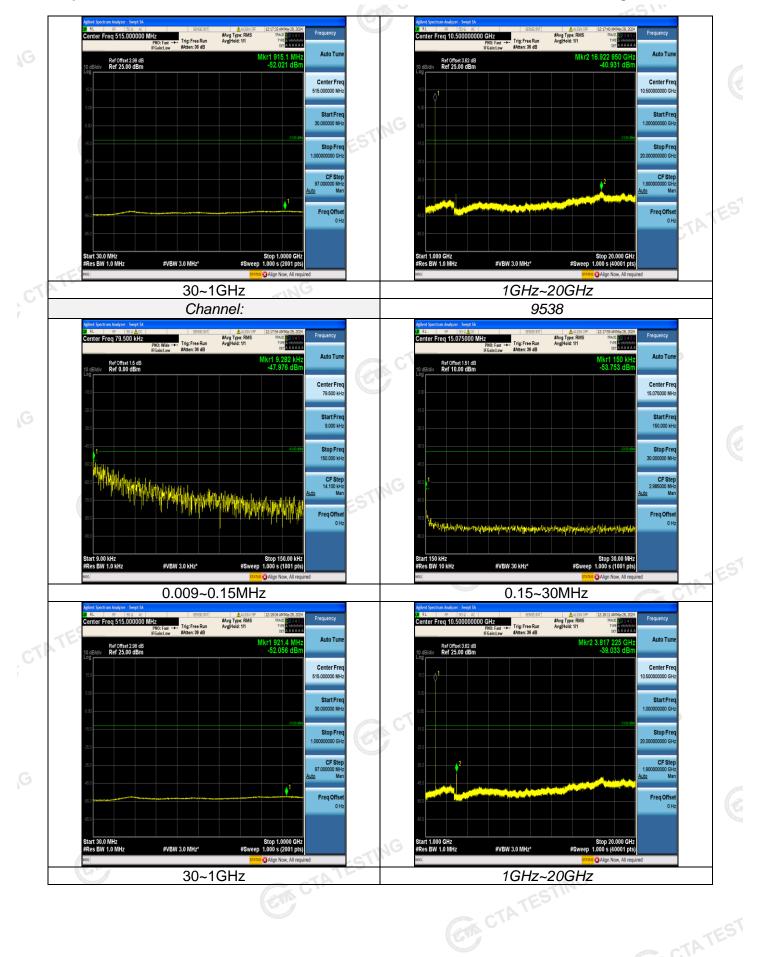
Conducted Measurement:



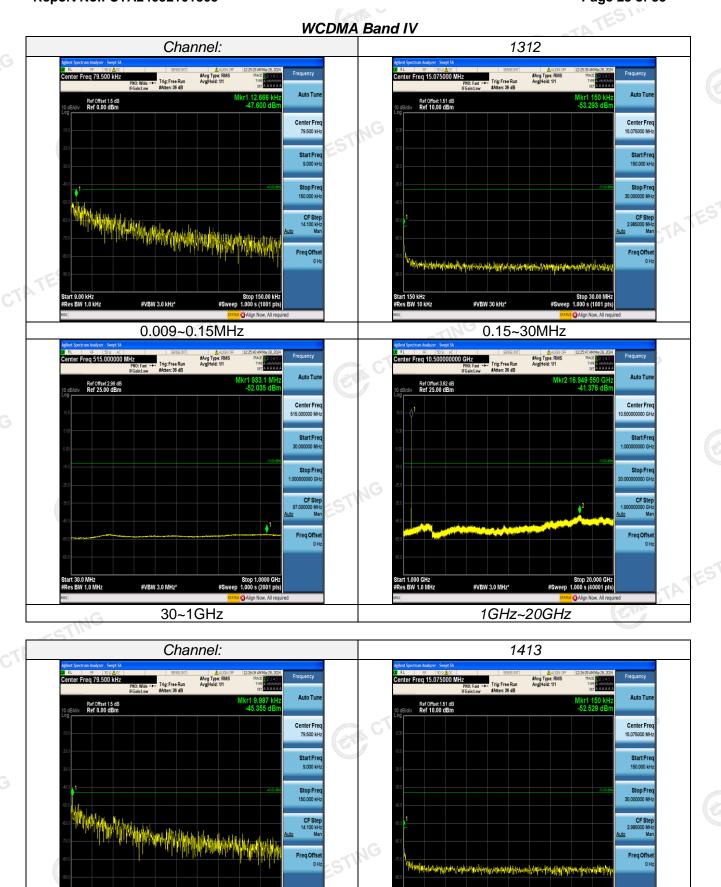


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TATESTING



Start 150 kHz #Res BW 10 kHz

#VBW 30 kHz*

0.15~30MHz



#VBW 3.0 kHz*

0.009~0.15MHz

Start 9.00 kHz #Res BW 1.0 kHz Stop 150.00 kHz eep 1.000 s (1001 pts)

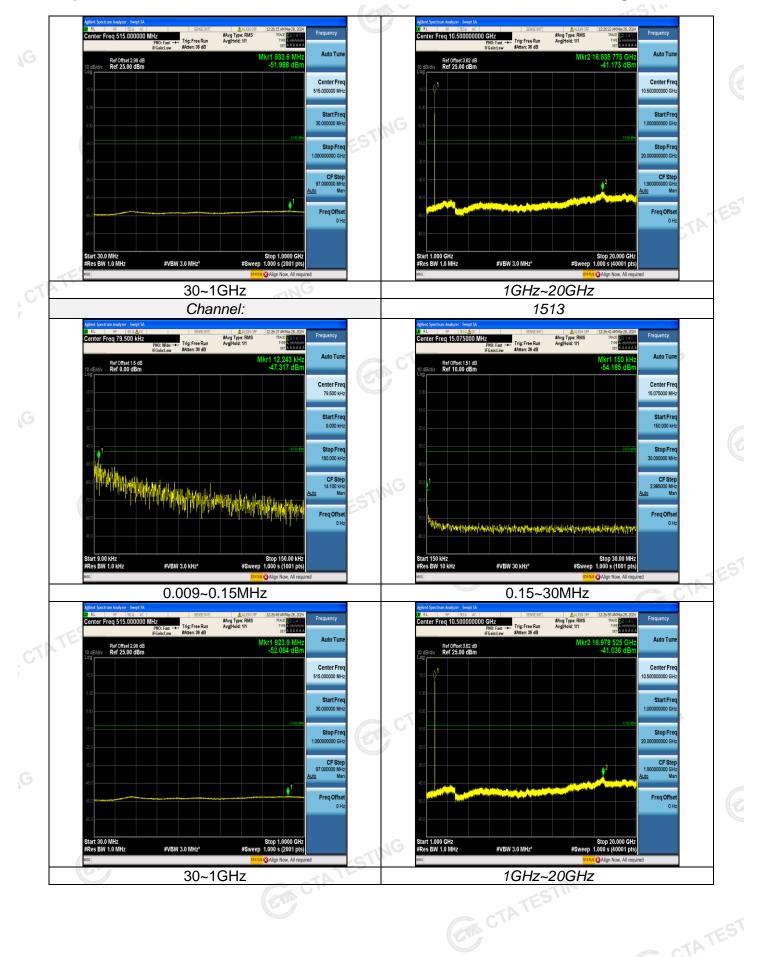
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Stop 30.00 MHz 1.000 s (1001 pts)

EST

GA CTAT

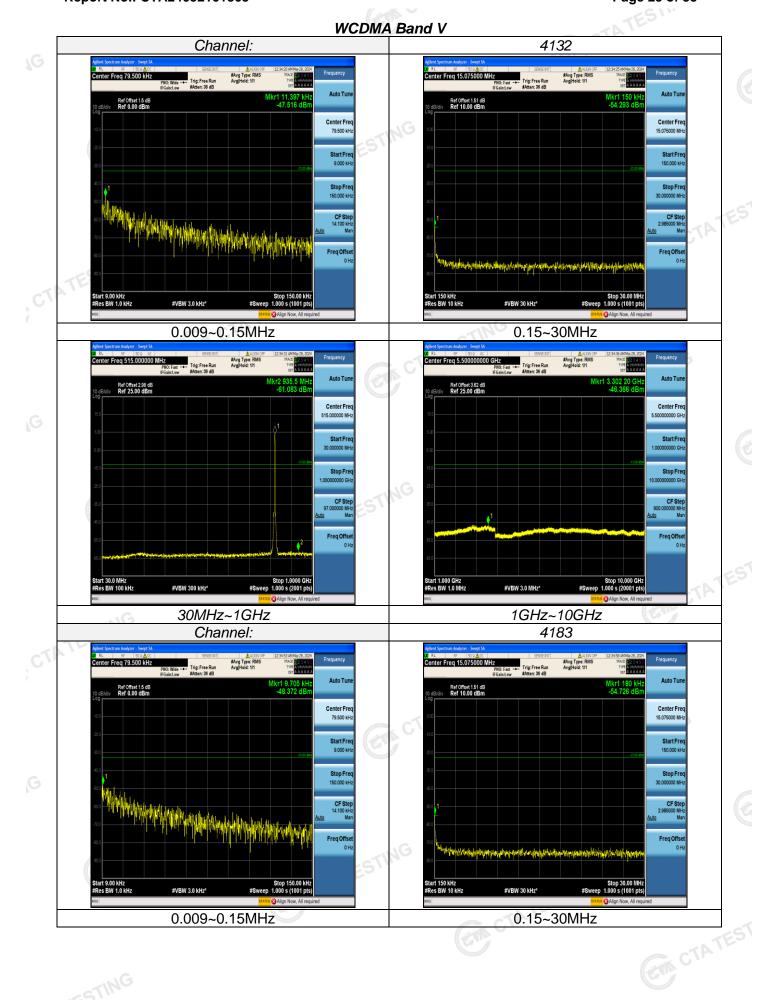




TESTING

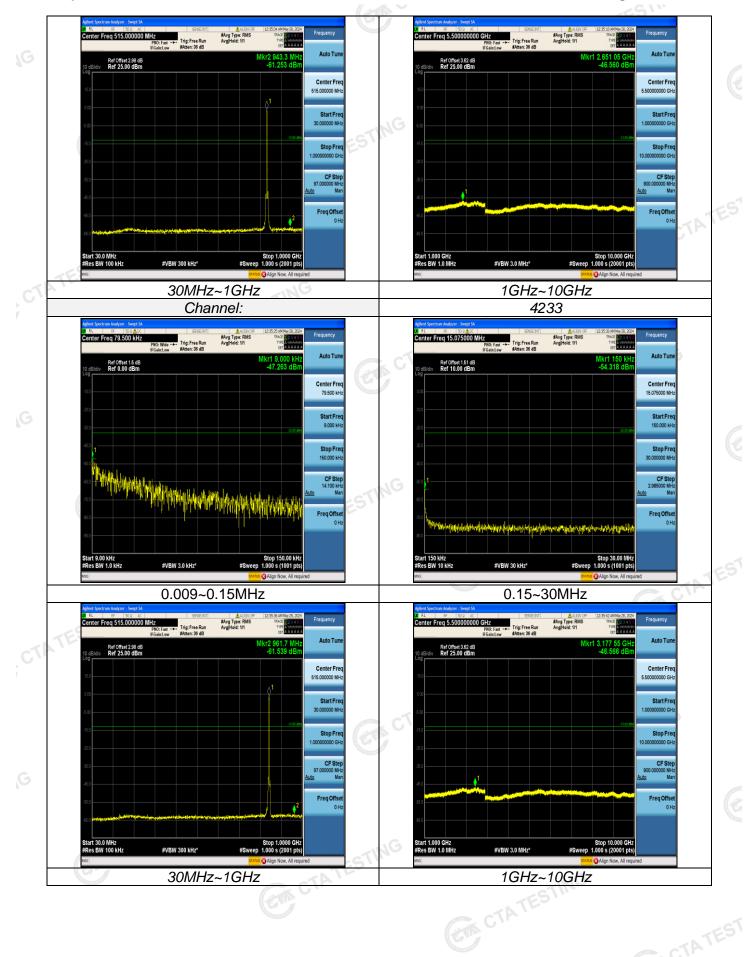
STIN





TIN





TESTING

GTING

Radiated Measurement:

WCDMA Band II

				WCDM	A Band II				
Channel	Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G₃ Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
9262	3704.80	-40.21	4.27	3.00	12.34	-32.14	-13.00	-19.14	Н
	5557.20	-46.12	4.99	3.00	13.52	-37.59	-13.00	-24.59	Н
	3704.80	-41.32	4.27	3.00	12.34	-33.25	-13.00	-20.25	V
	5557.20	-52.20	4.99	3.00	13.52	-43.67	-13.00	-30.67	V
	3760.00	-44.18	4.38	3.00	12.34	-36.22	-13.00	-23.22	Н
0400	5640.00	-46.92	5.01	3.00	13.58	-38.35	-13.00	-25.35	Н
9400	3760.00	-45.68	4.38	3.00	12.34	-37.72	-13.00	-24.72	VCTP
In	5640.00	-55.27	5.01	3.00	13.58	-46.70	-13.00	-33.70	V
TEST	3815.20	-41.49	4.47	3.00	12.45	-33.51	-13.00	-20.51	Н
0529	5722.80	-52.75	5.23	3.00	13.66	-44.32	-13.00	-31.32	Н
9538 -	3815.20	-42.76	4.47	3.00	12.45	-34.78	-13.00	-21.78	V
	5722.80	-55.03	5.23	3.00	13.66	-46.60	-13.00	-33.60	V

WCDMA Band IV

Channel	Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Distance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization	
	3424.80	-44.16	3.98	3.00	10.98	-37.16	-13.00	-24.16	Н	(*
1010	5137.20	-54.93	4.11	3.00	11.47	-47.57	-13.00	-34.57	Н	
1312	3424.80	-43.93	3.98	3.00	10.98	-36.93	-13.00	-23.93	V	
GAN.	5137.20	-51.41	4.11	3.00 5	11.47	-44.05	-13.00	-31.05	V	
Constant of the second	3465.20	-45.23	4.01	3.00	11.25	-37.99	-13.00	-24.99	Н	
1110	5197.80	-52.41	4.15	3.00	11.58	-44.98	-13.00	-31.98	Н	
1413	3465.20	-45.78	4.01	3.00	11.25	-38.54	-13.00	-25.54	V	сŚ
	5197.80	-53.99	4.15	3.00	11.58	-46.56	-13.00	-33.56	V	ES
	3505.20	-44.17	4.07	3.00	11.33	-36.91	-13.00	-23.91	H	
4512	^{>} 5275.80	-46.73	4.21	3.00	11.67	-39.27	-13.00	-26.27	H	
1513	3505.20	-40.19	4.07	3.00	11.33	-32.93	-13.00	-19.93	V	
	5275.80	-48.20	4.21	3.00	11.67	-40.74	-13.00	-27.74	V	
	(cr	CTAT		e	CTATE	STING		TAT	ESTING	
	1312 1413 1513	3424.80 5137.20 3424.80 5137.20 3424.80 5137.20 3465.20 5197.80 3465.20 5197.80 3505.20 5275.80 3505.20	$1312 \begin{array}{c ccccccccccccccccccccccccccccccccccc$	3424.80 -44.16 3.98 3.00 10.98 -37.16 -13.00 -24.16 H 1312 5137.20 -54.93 4.11 3.00 11.47 -47.57 -13.00 -34.57 H 3424.80 -43.93 3.98 3.00 10.98 -36.93 -13.00 -34.57 H 3424.80 -43.93 3.98 3.00 10.98 -36.93 -13.00 -23.93 V 5137.20 -51.41 4.11 3.00 11.47 -44.05 -13.00 -31.05 V 3465.20 -45.23 4.01 3.00 11.25 -37.99 -13.00 -24.99 H 5197.80 -52.41 4.15 3.00 11.58 -44.98 -13.00 -25.54 V 5197.80 -53.99 4.15 3.00 11.58 -46.56 -13.00 -25.54 V 5197.80 -53.99 4.15 3.00 11.33 -36.91 -13.00 -23.91 H						

									S 20 01 00
				WCDM.	A Band V			ATA	IE-
Channel	Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
	1652.80	-44.83	3.02	3.00	9.58	-38.27	-13.00	-25.27	Н
9262	2479.20	-50.76	3.51	3.00	10.72	-43.55	-13.00	-30.55	Н
9202	1652.80	-45.31	3.02	3.00	9.68	-38.65	-13.00	-25.65	V
	2479.20	-53.35	3.51	3.00	10.72	-46.14	-13.00	-33.14	V
A DESCRIPTION OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER OWN	1673.20	-41.85	3.14	3.00	9.61	-35.38	-13.00	-22.38	Н
9400	2509.80	-52.83	3.59	3.00	10.77	-45.65	-13.00	-32.65	Н
9400	1673.20	-42.33	3.14	3.00	9.61	-35.86	-13.00	-22.86	V
	2509.80	-47.16	3.59	3.00	10.77	-39.98	-13.00	-26.98	V
	1693.20	-41.15	3.24	3.00	9.77	-34.62	-13.00	-21.62	HCV
0520	3 2539.80	-50.70	3.65	3.00	10.89	-43.46	-13.00	-30.46	G H
9538	1693.20	-41.58	3.24	3.00	9.77	-35.05	-13.00	-22.05	V
15	2539.80	-50.19	3.65	3.00	10.89	-42.95	-13.00	-29.95	V
Remark:			SIL						

Remark:

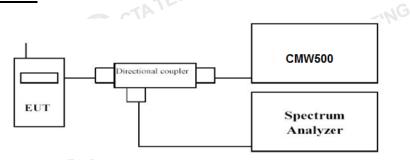
2. We were not recorded other points as values lower than limits. 3. Margin = EIRP- Limit CA CTA



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 statistics/CCDF function:

- 2. Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
- 3. Set the number of counts to a value that stabilizes the measured CCDF curve;

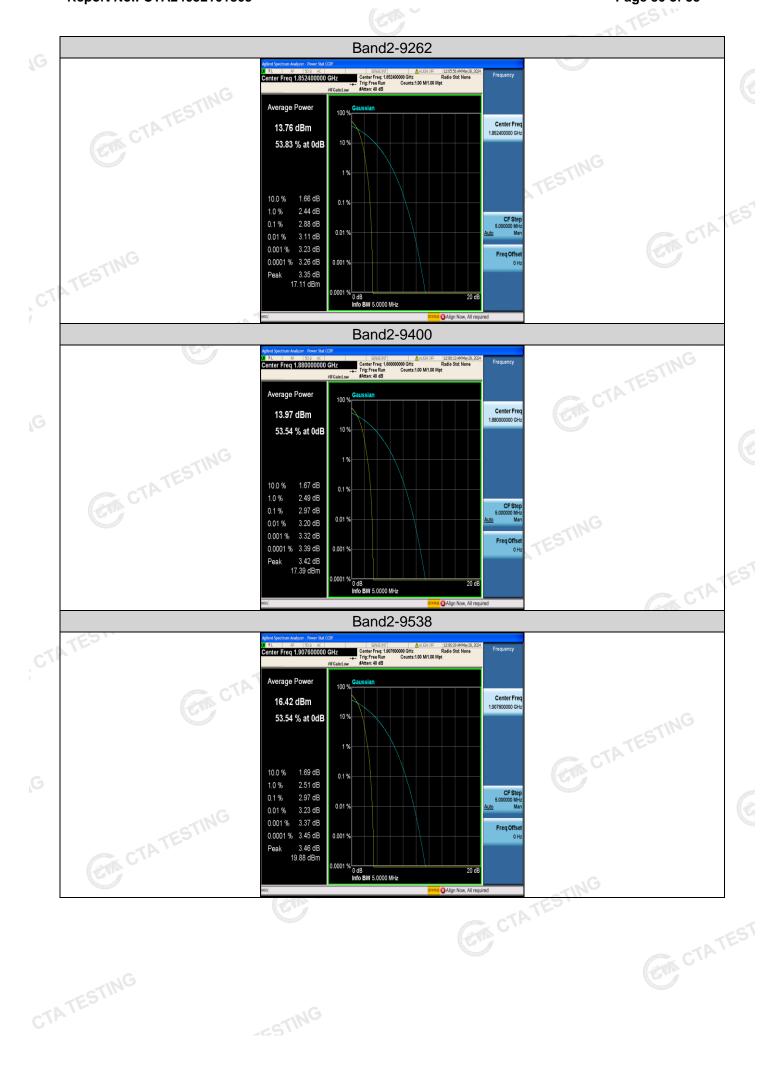
4. Set the measurement interval as follows: 1). for continuous transmissions, set to 1 ms, 2). for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set 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%.

TESTING Frequency PAPR Value Limits Test mode Channel Verdict (MHz) (dB) (dB) 9262 1852.4 2.88 13.0 Pass 2.97 9400 1880.0 13.0 WCDMA Band II Pass 9538 1907.6 2.97 13.0 Pass 1312 1712.4 2.88 13.0 Pass WCDMA Band IV 1413 1732.6 2.86 13.0 Pass 1513 1752.6 2.52 13.0 Pass 4132 2.82 13.0 826.4 Pass WCDMA Band V 4183 836.6 3.0 13.0 Pass 4233 846.6 3.03 13.0 Pass

TEST RESULTS

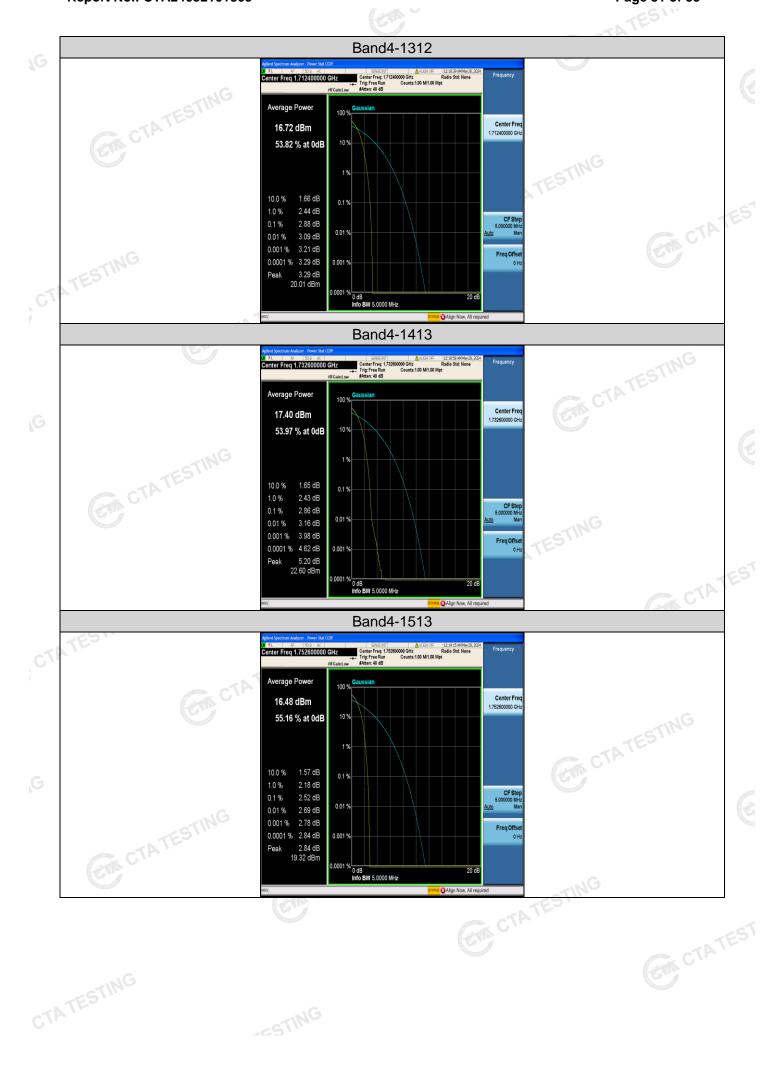








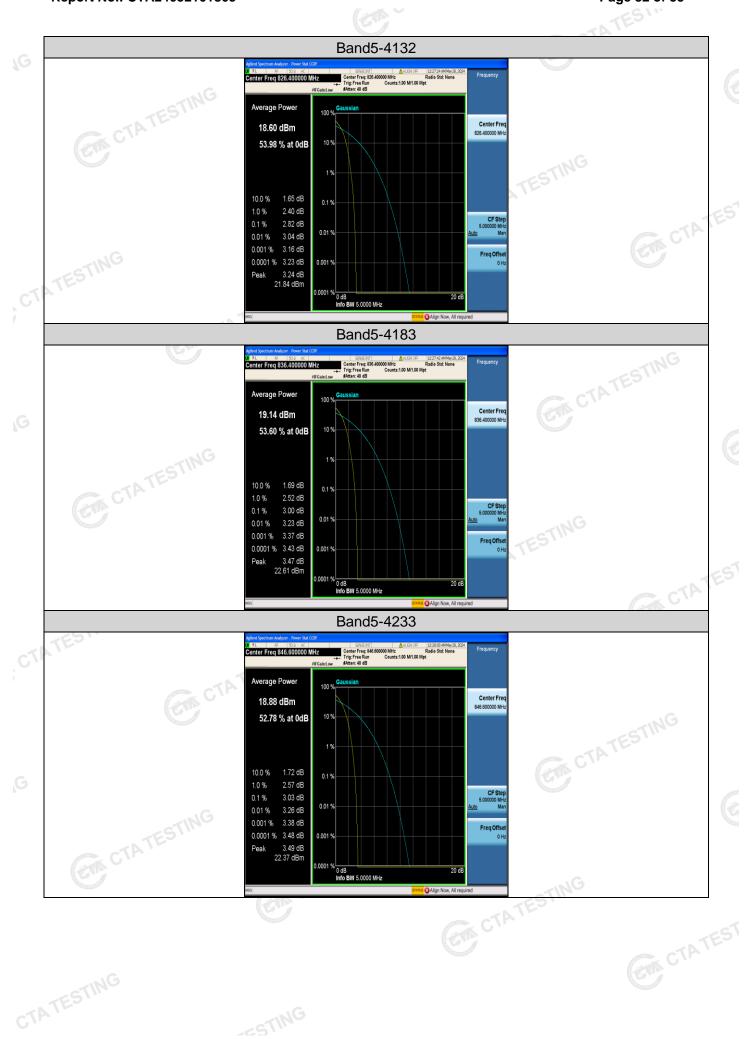






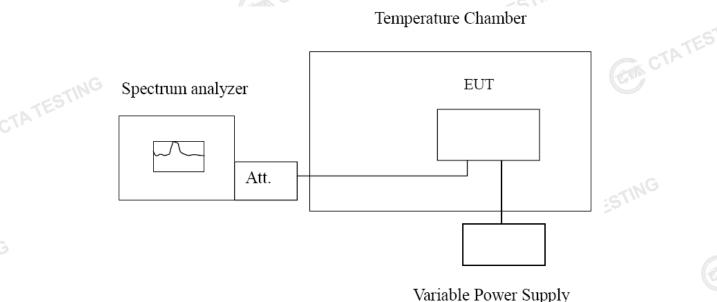


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Cellular Band: ±2.5ppm PCS Band: Within the authorized frequency block

TEST CONFIGURATION



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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 (±15%) and endpoint, record the maximum frequency change.

TEST RESULTS

	Temperature	Frequenc	cy error		D [#]
Voltage (V)	G (°C)	Hz	ppm	Limit (ppm)	Result
TES	-30	19	0.010		
GA CTATES	-20	-5 TNG	-0.003		
	-10	15	0.008	NG	
	0	-6	-0.003	TESTING	
3.80	10	7	0.004		
	20	-12	-0.006	±2.5	Pass
	30	15	0.008		Gr C
TING	40	-8	-0.004		
TES !!	50	4	0.002		
4.18	25	-19	-0.010		
End point 3.42	25	-12	-0.006		

	Temperature	Frequen	cy error	Linsit (nome)	ESI
Voltage (V)	(°C)	Hz ppm		Limit (ppm)	Result
	-30	-16	-0.009	C.	
	-20	-20	-0.011		
-1	-10	20	0.011		
3.80	0	15	0.009		
3.80	10	-14	-0.008		
G	20	-3	-0.002	±2.5	Pass
	30	14	0.008	FESTING	
	40	-7	-0.004	1-	
	50	-4	-0.002		
4.20	25	3	0.002		CTA CTA
End point 3.40	25	-15	-0.009		

Voltage (V)	Temperature	Temperature Frequency error			Deput
	(°C)	Hz	ppm	Limit (ppm)	Result
	-30	8	0.010		GTING
	-20	-14	-0.017	CTA CTA	TESTINC
	-10	-18	-0.022		
	0	-3	-0.004		
3.80	10	-18	-0.022		
GA CTATEST	20	-4	-0.005	±2.5	Pass
	30	5G	0.006		
	40	-13	-0.016		
	50	-7	-0.008	GTING	
4.20	25	-17	-0.021	TES	
End point 3.40	25	-1	-0.001		
					CTA CTA

CTATESI **Test Setup Photos of the EUT** 4 VCO CTATEST GTA TEST TESTING CTA5 **External and Internal Photos of the EUT** Reference to the test report No. CTA24052101801. CTA TESTING