

Shenzhen CTA Testing Technology Co., Ltd.

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

FCC TEST REPORT

FCC Part 22/Part 24

Compiled by

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Date of issue...... May. 11, 2024

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

Fuhai Street, Bao'an District, Shenzhen, China

Jushan Kong

Applicant's name...... Imin Technology Pte Ltd

Test specification:

Standard FCC CFR Title 47 Part 2, Part 22H, Part 24E

TIA-603-E

TRF Originator...... Shenzhen Global Test Service Co.,Ltd...

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Terminal, Wireless Handheld Terminal

Manufacturer Imin Technology Pte Ltd

Model/Type reference.....: I24P01

Listed Models N/A

Trade Mark:

Modulation Type QPSK

Hardware Version N/A

Software Version: N/A

Rating DC 3.87V by battery

Recharged by DC 9.0V

Result..... PASS

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TEST REPORT

Test Report No. :	CTA24050902608	May. 11, 2024		
	C1A24030902000	Date of issue		

Equipment under Test Mobile Data Terminal, Mobile Computer, Handheld Data Terminal,

Wireless Handheld Terminal

Model /Type : I24P01

Listed model : N/A

Applicant : Imin Technology Pte Ltd

Address : 11 Bishan Street 21, #03-05 Bosch Building, Singapore 573943

Manufacturer : Imin Technology Pte Ltd

Address : 11 Bishan Street 21, #03-05 Bosch Building, Singapore 573943

Test result	Pass *
	1

^{*} 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 22: PUBLIC MOBILE SERVICES

FCC Part 24: PERSONAL COMMUNICATIONS SERVICES

TIA-603-E: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards. FCC Part 2: FREQUENCY ALLOCA-TIONS AND RADIO TREATY MAT-TERS; GENERAL RULES AND REG-ULATIONS

FCC KDB971168 D01 Power Meas License Digital Systems v03r01

ANSI C63.26: American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

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2 **GENERAL INFORMATION**

2.1 General Remarks

Date of receipt of test sample		Apr. 13, 2024
Testing commenced on	:	Apr. 13, 2024
Testing concluded on	:	May. 10, 2024

2.2 Product Description

	Mobile Data Terminal, Mobile Computer, Handheld Data Terminal,				
Product Name:	Wireless Handheld Terminal				
Trade Mark:	imin				
Model/Type reference:	I24P01				
List Model:	N/A				
Model Declaration	N/A				
_	DC 3.87V by battery				
Power supply:	Recharged by DC 9.0V				
Hardware Version	N/A				
Software Version	N/A				
Sample ID	GTS20240329015-1-S0001-1#, GTS20240329015-1-S0001-2#				
Bluetooth					
Frequency Range	2402MHz ~ 2480MHz				
Channel Number	79 channels for Bluetooth (DSS)				
Charmer Number	40 channels for Bluetooth (DTS)				
Channel Spacing	1MHz for Bluetooth (DSS)				
	2MHz for Bluetooth (DTS) GFSK, π/4-DQPSK, 8-DPSK for Bluetooth (DSS)				
Iodulation Type GFSK, 11/4-DQPSK, 6-DPSK for Bluetooth (DSS) GFSK for Bluetooth (DTS)					
2.4GWLAN					
	IEEE 802.11b:2412-2462MHz				
WLAN Operation frequency	IEEE 802.11g:2412-2462MHz				
	IEEE 802.11n HT20:2412-2462MHz				
	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK)				
WLAN Modulation Type	IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)				
	IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK)				
Channel number:	11 Channel for IEEE 802.11b/g/n (HT20)				
Channel separation:	5MHz				
WIFI (5.2G/5.3G/5.7G/5.8G Bar	nd)				
Frequency Range	5180-5240MHz/ 5260MHz to 5320MHz/ 5500MHz to 5700MHz/				
Trequency Nange	5745MHz to 5825MHz				
	4 Channels for 20MHz bandwidth(5180-5240MHz)				
Channel Number	4 Channels for 20MHz bandwidth(5260-5320MHz)				
	11 Channels for 20MHz bandwidth(5500-5700MHz) 5 channels for 20MHz bandwidth(5745-5825MHz)				
	2 channels for 40MHz bandwidth(5190~5230MHz)				
	2 channels for 40MHz bandwidth(5270~5230MHz)				
	5 Channels for 40MHz bandwidth(5510-5670MHz)				
	2 channels for 40MHz bandwidth(5755~5795MHz)				
	1 channels for 80MHz bandwidth(5210MHz)				
	1 channels for 80MHz bandwidth(5290MHz)				
	2 Channels for 80MHz bandwidth(5530-5610MHz)				
	1 channels for 80MHz bandwidth(5775MHz)				

	IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)			
Modulation Type	IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac VHT20: OFDM (256QAM,64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac VHT40: OFDM (256QAM,64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac VHT80: OFDM (256QAM,64QAM, 16QAM, QPSK, BPSK)			
Antenna Description	Internal Antenna, -0.18dBi(Max.) for 2.4G Band and 4.01dBi(Max.) for 5G Band			
2G				
Support Band	GPRS850/GPRS1900/EDGE850/EDGE1900			
Release Version	R99			
GPRS Class	Class 12			
EGPRS Class	Class 12			
GPRS/EDGE Multislot Class	GPRS/EDGE: Multi-slot Class 12			
Type Of Modulation	GMSK for GPRS; GMSK/8PSK for EGPRS			
Antenna Description	Internal Antenna -0.82dBi (max.) For GPRS850/EDGE850 -0.77dBi (max.) For GPRS1900/EDGE1900			
3G				
UMTS Operation Frequency Band	UMTS FDD Band 2(1850 MHz -1910MHz) UMTS FDD Band 5(824 MHz -849MHz)			
WCDMA Release Version	R7			
HSDPA Release Version	Release 5			
HSUPA Release Version	Release 6			
HSPA+ Release Version	Release 7			
Modulation Type	QPSK for UMTS			
Antenna Description	Internal Antenna -0.77dBi (max.) For WCDMA Band 2			
LTE	-0.82dBi (max.) For WCDMA Band 5			
LTE	E-UTRA Band 2(1850 MHz -1910MHz)			
	E-UTRA Band 4(1710 MHz -1755MHz) E-UTRA Band 5(824 MHz -849MHz) E-UTRA Band 7(2500 MHz -2570MHz)			
	E-UTRA Band 12(699 MHz -716MHz) E-UTRA Band 14(788 MHz -798MHz)			
LTE Operation Frequency Band	E-UTRA Band 17(704 MHz -716MHz)			
	E-UTRA Band 25(1850 MHz -1915MHz)			
	E-UTRA Band 26(814 MHz -824MHz)			
	E-UTRA Band 26(824 MHz -849MHz)			
	E-UTRA Band 41(2496 MHz -2690MHz)			
LTE Release Version	E-UTRA Band 66(1710 MHz -1780MHz) R10			
	QPSK/16QAM			
Type Of Modulation	Internal Antenna;			
Antenna Description	-0.77dBi (max.) For LTE Band 2; -0.8dBi (max.) For LTE Band 4; -0.82dBi (max.) For LTE Band 5; 2.47dBi (max.) For LTE Band 7; -2.7dBi (max.) For LTE Band 12; -2.63dBi (max.) For LTE Band 14;			
	_ ====================================			

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	-2.7dBi (max.) For LTE Band 17;			
	-0.77dBi (max.) For LTE Band 25;			
	-0.82dBi (max.) For LTE Band 26;			
	2.51dBi (max.) For LTE Band 41;			
	-0.8dBi (max.) For LTE Band 66;			
RFID(13.56MHz) (Optional)				
Frequency Range	13.56MHz			
Channel Number	1			
Modulation Type	ASK			
Antenna Description	Internal Antenna, 0dBi (Max.)			
GPS(RX)	Support			
Remark:The I24P01 model has 2 versions; Version A: With fingerprint recognition function				
Version B: No fingerprint recognition function				

2.3 Equipment Under Test

Power supply system utilised

Power supply voltage	••	0	230V/ 50 Hz	0	120V/60Hz
		0	12 V DC	0	24 V DC
		•	Other (specified in blank below)		

DC 3.87V

2.4 Short description of the Equipment under Test (EUT)

This is a Mobile Data Terminal, Mobile Computer, Handheld DataTerminal, Wireless Handheld Terminal.

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

2.5 Environmental conditions

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

During the measurement the environmental conditions were within the licited ranges.					
Normal Temperature:	25°C				
Relative Humidity:	55 %				
Air Pressure:	101 kPa				

2.6 Description of Test Modes

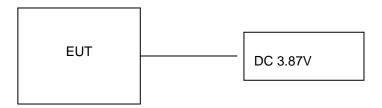
The EUT has been tested under typical operating condition. The CMW500 used to control the EUT staying in continuous transmitting and receiving mode for testing. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

Note:

- 1. For the ERP/EIRP and radiated emission test, every axis (X, Y, Z) was verified, and show the worst resulton this report.
- 2. Test method and refer to 3GPP TS134 121.

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2.7 Block Diagram of Test Setup



2.8 Special Accessories

Manufacturer	Description	Model	Serial Number	Certificate
SHENZHEN TIANYIN ELECTRONICS CO.,LTD.	Adapter	TPD- 203A120167UF0 1		SDOC

2.9 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is filing to comply with of the FCC Part 22, Part 24, Part 27 Rules.

2.10 Special Accessories

Manufacturer	Description	Model	Serial Number	Certificate
SHENZHEN TIANYIN ELECTRONICS CO.,LTD.	Adapter	TPD- 203A120167UF0 1		SDOC
1	Charger Base	Lark1 Dock A		SDOC
1	Hand Shank	Lark1 Handle		SDOC

Note:The product accessories are selected by customers to matched product to use.

2.11 External I/O Cable

I/O Port Description	Quantity	Cable
DC IN Port	1	1.0M, Unscreened Cable

2.12 Modifications

No modifications were implemented to meet testing criteria.

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3 TEST ENVIRONMENT

3.1 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

3.2 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.

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.

3.3 Environmental conditions

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

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

3.4 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.:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10 dB	(1)
Radiated Emission	1~18GHz	4.32 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.12 dB	(1)

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

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3.5 Test Description

Test Item	Section in CFR 47	Test Sample	Result
RF Output Power	Part 2.1046 Part 22.913(a) Part 24.232(c)	GTS20240329015-1- S0001-1#	Pass
Peak-to-Average Ratio	Part 2.1046 Part 24.232	GTS20240329015-1- S0001-1#	Pass
99% & -26 dB Occupied Bandwidth	Died Part 2.1049 GTS20240329015-1- S0001-1#		Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 22.917 Part 24.238	GTS20240329015-1- S0001-1# GTS20240329015-1- S0001-2#	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917(b) Part 24.238	GTS20240329015-1- S0001-1#	Pass
Out of band emission, Band Edge Part 2.1051 Part 22.917(b) Part 24.238		GTS20240329015-1- S0001-1#	Pass
Frequency stability	Part 2.1055 Part 22.355 Part 24.235	GTS20240329015-1- S0001-1#	Pass

Remark:

- The measurement uncertainty is not included in the test result.

 NA = Not Applicable; NP = Not Performed

 Note 1 Test results inside test report;

 Note 2 Test results in other test report (MPE Report).

 We tested all test mode and recorded worst case in report
- 3.
- 4.

3.6 Equipments Used during the Test

Test Equipment	Manufacturer	Model No.	Equipment No.	Calibration Date	Calibration Due Date
LISN	R&S	ENV216	CTA-308	2023/08/02	2024/08/01
LISN	R&S	ENV216	CTA-314	2023/08/02	2024/08/01
EMI Test Receiver	R&S	ESPI	CTA-307	2023/08/02	2024/08/01
EMI Test Receiver	R&S	ESCI	CTA-306	2023/08/02	2024/08/01
Spectrum Analyzer	Agilent	N9020A	CTA-301	2023/08/02	2024/08/01
Spectrum Analyzer	R&S	FSP	CTA-337	2023/08/02	2024/08/01
Vector Signal generator	Agilent	N5182A	CTA-305	2023/08/02	2024/08/01
Analog Signal Generator	R&S	SML03	CTA-304	2023/08/02	2024/08/01
Universal Radio Communication	CMW500	R&S	CTA-302	2023/08/02	2024/08/01
Temperature and humidity meter	Chigo	ZG-7020	CTA-326	2023/08/02	2024/08/01
Ultra-Broadband Antenna	Schwarzbeck	VULB9163	CTA-310	2023/10/17	2024/10/16
Horn Antenna	Schwarzbeck	BBHA 9120D	CTA-309	2023/10/13	2024/10/12
Loop Antenna	Zhinan	ZN30900C	CTA-311	2023/10/17	2024/10/16
Horn Antenna	Beijing Hangwei Dayang	OBH100400	CTA-336	2021/08/07	2024/08/06
Antenna Tower	Suzhou Keletuo electronic Technology Co., LTD	BK-*AT-BS	N/A	N/A	N/A
Radio Communication Tester	Rohde&Schwarz	CMW500	CTA-407	2023/08/02	2024/08/01
Amplifier	Schwarzbeck	BBV 9745	CTA-312	2023/08/02	2024/08/01
Amplifier	Taiwan chengyi	EMC051845B	CTA-313	2023/08/02	2024/08/01
Directional coupler	NARDA	4226-10	CTA-303	2023/08/02	2024/08/01
High-Pass Filter	XingBo	XBLBQ-GTA18	CTA-402	2023/08/02	2024/08/01
High-Pass Filter	XingBo	XBLBQ-GTA27	CTA-403	2023/08/02	2024/08/01
Automated filter bank	Tonscend	JS0806-F	CTA-404	2023/08/02	2024/08/01
Power Sensor	Agilent	U2021XA	CTA-405	2023/08/02	2024/08/01
Amplifier	Schwarzbeck	BBV9719	CTA-406	2023/08/02	2024/08/01
Note: The Cal Interval					

Note: The Cal.Interval was one year.

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4 TEST CONDITIONS AND RESULTS

4.1 Output Power

LIMIT

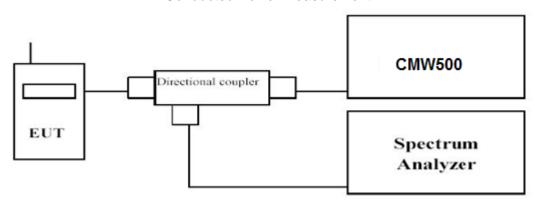
This is the test for the maximum radiated power from the EUT.

Per rule Part 24.232(c) specifies, "Mobile/portable stations are limited to 2 watts e.i.r.p. Peak power" and 24.232(e) specifies that "Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage."

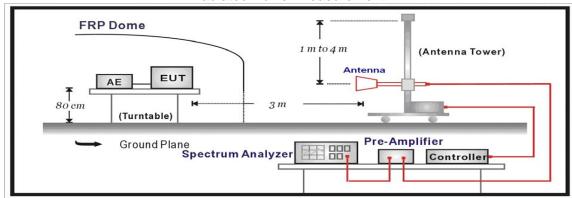
Per rule Part 22.913(a) specifies "The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts."

TEST CONFIGURATION

Conducted Power Measurement



Radiated Power Measurement:



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D

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 CMW500 by a Directional Couple.
- c) EUT Communicate with CMW500, then select 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 thefrequency 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
- e. transmitter under test.
- f. 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.
- g. The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- h. 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.
- i. The maximum signal level detected by the measuring receiver shall be noted.
- j. The transmitter shall be replaced by a substitution antenna.
- k. 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.
- I. The substitution antenna shall be connected to a calibrated signal generator.
- m. If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- n. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- o. 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.
- p. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
- q. 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.
- r. Test site anechoic chamber refer to ANSI C63.26.

TEST RESULTS

Temperature	24.5℃	Humidity	53.7%
Test Engineer	Lushan Kong	Configurations	WCDMA

Conducted Measurement:

WCDMA Band II

	Mode 3GPP Sub Test	Low Channel	Middle Channel	High Channel
Mode		Ave.Power (dBm)	Ave.Power (dBm)	Ave. Power (dBm)
Rel 99	1	23.08	23.42	23.34
	1	22.37	22.38	22.34
ПСДВУ	2	22.24	22.29	22.32
ПОДРА	HSDPA 3	22.37	22.29	22.30
4	22.36	22.24	22.39	
	1	22.36	22.35	22.36
	2	22.30	22.22	22.28
HSUPA	3	22.25	22.21	22.22
	4	22.23	22.33	22.36
	5	22.21	22.24	22.31

WCDMA Band V

	3GPP	Low Channel	Middle Channel	High Channel
Mode	Sub Test	Ave.Power (dBm)	Ave.Power (dBm)	Ave. Power (dBm)
Rel 99	1	23.45	23.22	23.48
	1	22.43	22.46	22.38
ПСДВУ	2	22.45	22.33	22.38
HSDPA	3	22.35	22.41	22.47
	4	22.33	22.41	22.31
	1	22.38	22.36	22.34
	2	22.41	22.36	22.33
HSUPA	3	22.31	22.35	22.31
	4	22.49	22.42	22.42
	5	22.37	22.49	22.32

Radiated Measurement:

Remark:

- We were tested all RB Configuration refer 3GPP TS134 121 for each Channel Bandwidth of WCDMA Band II, WCDMA Band V; recorded worst case for each Channel Bandwidth of WCDMA Band II, WCDMA Band V.
- 2. ERP = EIRP 2.15dBi as EIRP by subtracting the gain of the dipole.
- 3. The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
- 4. Absolute Level = Substituted Level Cable loss + Antenna Gain
- 5. Margin = Limit-Absolute Level

Temperature	24.5℃	Humidity	53.7%
Test Engineer	Lushan Kong	Configurations	WCDMA

		Substituted Method Absolut		Absolute				
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBµV)	Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss(dB)	Level EIRP/ERP (dBm)	Limit (dBm)	Margin (dB)
			WCDMA E	Band II Low C	Channel			
1,852.40	Н	85.19	12.52	11.59	2.11	22.00	33.00	11.00
1,852.40	V	85.69	11.46	11.59	2.11	20.94	33.00	12.06
			WCDMA Ba	and II Middle	Channel			
1,880.00	Н	85.54	13.71	11.56	2.14	23.13	33.00	9.87
1,880.00	V	85.15	13.02	11.56	2.14	22.44	33.00	10.56
			WCDMA B	and II High (Channel			
1,907.60	Н	86.45	13.90	11.52	2.18	23.24	33.00	9.76
1,907.60	V	85.94	13.18	11.52	2.18	22.52	33.00	10.48
			WCDMA B	and V Low C	Channel			
826.40	Н	86.54	19.93	1.65	0.58	21.00	38.45	17.45
826.40	V	85.56	20.49	1.65	0.58	21.56	38.45	16.89
	WCDMA Band V Middle Channel							
836.60	Н	86.07	20.75	1.59	0.65	21.69	38.45	16.76
836.60	V	85.89	19.49	1.59	0.65	20.43	38.45	18.02
	WCDMA Band V High Channel							
846.60	Н	86.84	20.33	1.53	0.71	21.15	38.45	17.30
846.60	V	84.61	19.40	1.53	0.71	20.22	38.45	18.23

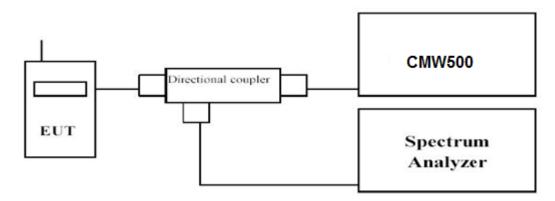
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4.2 Peak-to-Average Ratio (PAR)

LIMIT

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

TEST CONFIGURATION



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 ≥ 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 tN/Ag 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%.

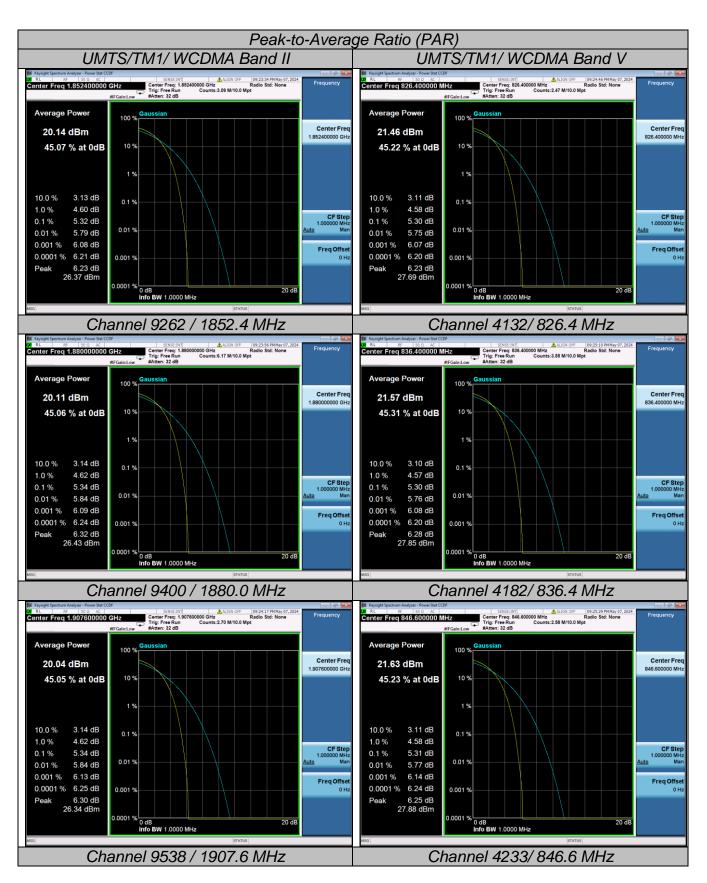
TEST RESULTS

Temperature	24.5℃	Humidity	53.7%
Test Engineer	Lushan Kong	Configurations	WCDMA

Remark:

We were tested all RB Configuration refer 3GPP TS134 121 for each Channel Bandwidth of WCDMA Band II, WCDMA Band V; recorded worst case for each Channel Bandwidth of WCDMA Band II, WCDMA Band V.

Test Mode	Channel	Frequency (MHz)	PAPR Value (dB)	Limits (dB)	Verdict
LIMTO/TM4/	9262	1852.4	5.32	13.0	PASS
UMTS/TM1/ WCDMA Band II	9400	1880.0	5.34	13.0	PASS
WCDIVIA Ballu II	9538	1907.6	5.34	13.0	PASS
	4132	826.4	5.30	13.0	PASS
UMTS/TM1/ WCDMA Band V	4182	836.4	5.30	13.0	PASS
WODIVIA Band V	4233	846.6	5.31	13.0	PASS



NOTE:We measured all modes and only recorded the worst case.

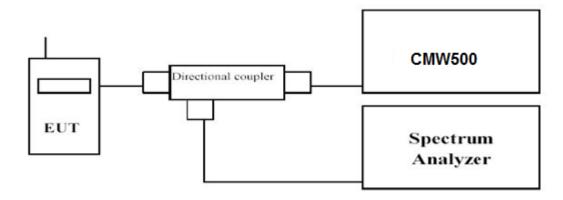
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4.3 Occupied Bandwidth and Emission Bandwidth

LIMIT

FCC §2.1049, §22.917, §24.238.

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at low, middle and high channel in each band. The -26dBc Emission bandwidth was also measured and recorded. Set 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

Temperature	24.5℃	Humidity	53.7%
Test Engineer	Lushan Kong	Configurations	WCDMA

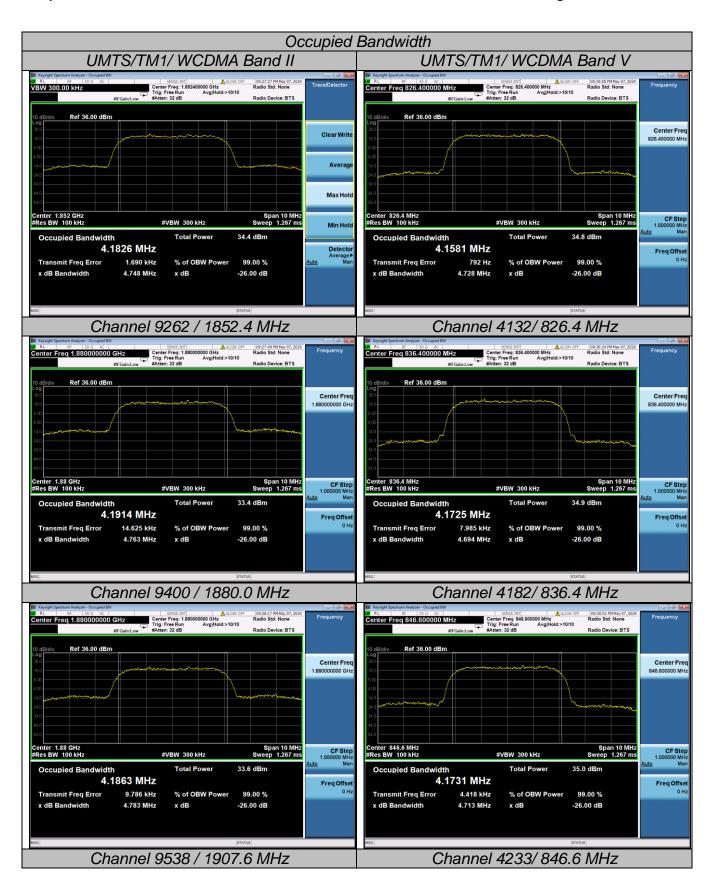
Remark:

We were tested all RB Configuration refer 3GPP TS134 121 for each Channel Bandwidth of WCDMA Band II, WCDMA Band V; recorded worst case for each Channel Bandwidth of WCDMA Band II, WCDMA Band V.

Test Mode	Channel	Frequency (MHz)	Occupied Bandwidth (99% BW) (MHz)	Emission Bandwidth (-26 dBc BW) (MHz)	Verdict
UMTS/TM1/ WCDMA Band II	9262	1852.4	4.1826	4.748	PASS
	9400	1880.0	4.1914	4.763	PASS
WCDIVIA Bariu II	9538	1907.6	4.1863	4.783	PASS
UMTS/TM1/	4132	826.4	4.1581	4.728	PASS
WCDMA Band V	4182	836.4	4.1725	4.694	PASS
	4233	846.6	4.1731	4.713	PASS

Remark:

- 1. Test results including cable loss;
- 2. Please refer to following plots;



NOTE:We measured all modes and only recorded the worst case.

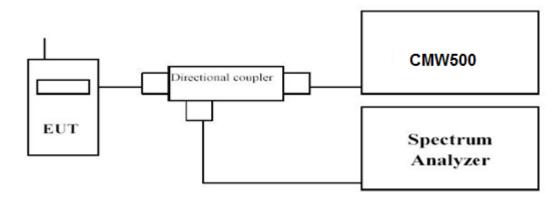
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4.4 Band Edge compliance

LIMIT

FCC § 2.1053, §22.917, § 24.238.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The transmitter output port was connected to base station.
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement.
- 3. Set EUT at maximum power through base station.
- 4. Select lowest and highest channels for each band and different modulation.
- 5. Measure Band edge using RMS (Average) detector by spectrum

TEST RESULTS

Temperature	24.5℃	Humidity	53.7%
Test Engineer	Lushan Kong	Configurations	WCDMA

Remark

We were tested all RB Configuration refer 3GPP TS134 121 for each Channel Bandwidth of WCDMA Band II, WCDMA Band V; recorded worst case for each Channel Bandwidth of WCDMA Band II, WCDMA Band V.

Test Mode	Channel	Frequency (MHz)	Band Edg Compliance (dBm)	Limits (dBm)	Verdict
UMTS/TM1/WCDMA	9262	1852.40	-19.36	-13dBm	PASS
Band II	9538	1907.60	-16.79	-13dBm	PASS
UMTS/TM1/WCDMA	4132	826.40	-24.68	-13dBm	PASS
Band V	4233	846.60	-27.54	-13dBm	PASS

Remark:

- 1. Test results including cable loss;
- Please refer to following plots;



NOTE:We measured all modes and only recorded the worst case.

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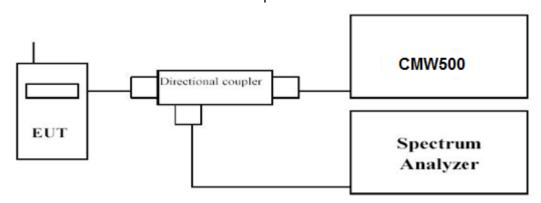
4.5 Spurious Emission

LIMIT

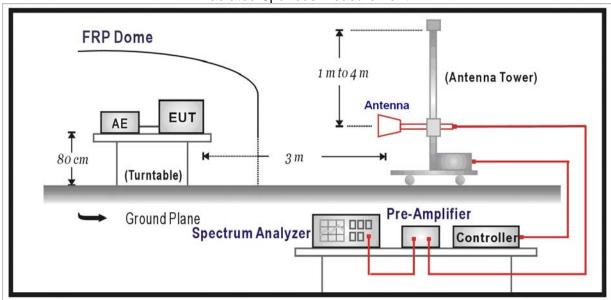
FCC § 2.1053, §22.917, § 24.238.

TEST CONFIGURATION

Conducted Spurious Measurement:



Radiated Spurious Measurement:



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603-E

Conducted Spurious 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 CMW500 by a Directional Couple.
- c. EUT Communicate with CMW500, then select a channel for testing.
- d. Add a correction factor to the display of spectrum, and then test.
- e. The resolution bandwidth of the spectrum analyzer was set sufficient scans were taken to show the out of band Emission if any up to10th harmonic.
- f. Please refer to following tables for test antenna conducted emissions.

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Radiated Spurious Measurement:

 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.
- r. Test site anechoic chamber refer to ANSI C63.4:2014.

TEST RESULTS

Temperature	24.5℃	Humidity	53.7%
Test Engineer	Lushan Kong	Configurations	WCDMA

Conducted Measurement:

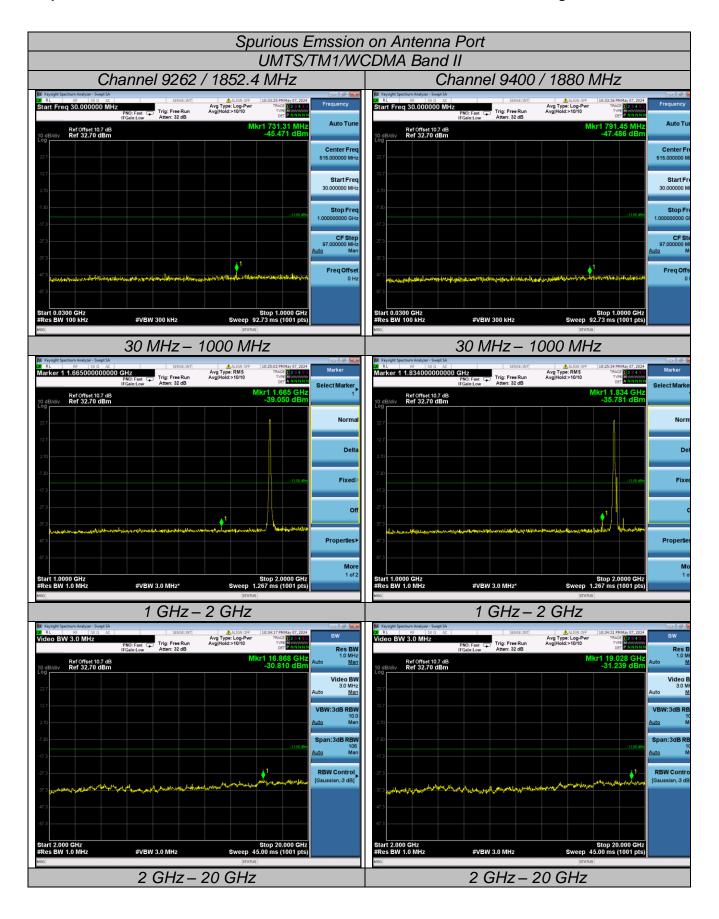
Remark:

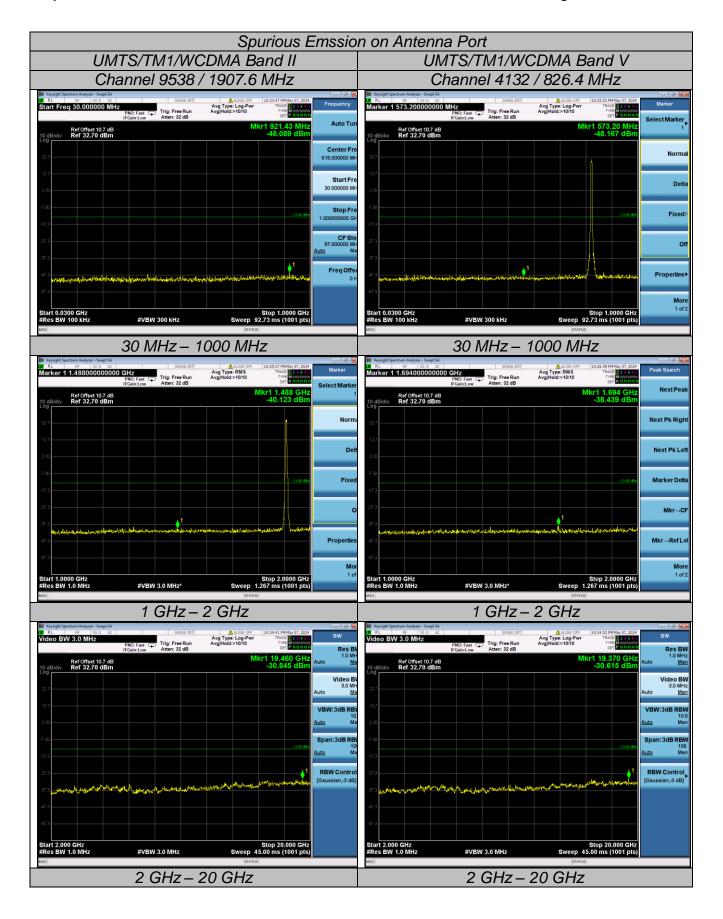
We were tested all RB Configuration refer 3GPP TS134 121 for each Channel Bandwidth of WCDMA Band II, WCDMA Band V; recorded worst case for each Channel Bandwidth of WCDMA Band II, WCDMA Band V.

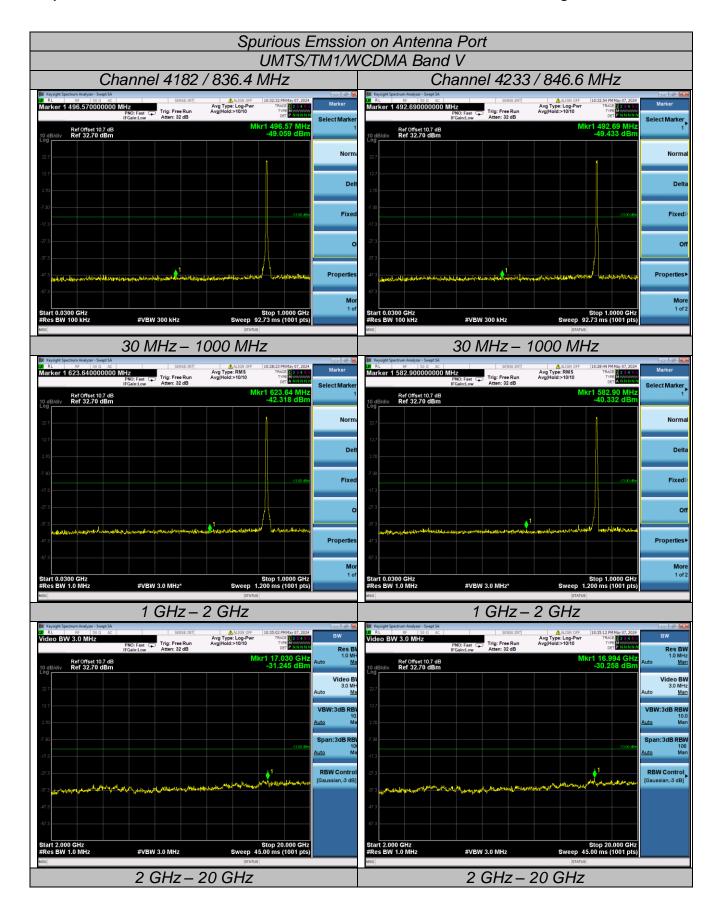
Test Mode	Channel	Frequency (MHz)	Spurious RF Conducted Emission (dBm)	Limits (dBm)	Verdict
UMTS/TM1/WCDMA	9262	1852.4	-30.81	-13dBm	
Band II	9400	1880.0	-31.24	-13dBm	PASS
Danu II	9538	1907.6	-30.85	-13dBm	
UMTS/TM1/WCDMA	4132	826.4	-30.62	-13dBm	
Band V	1 4189		-31.24	-13dBm	PASS
Dailu V	4233	846.6	-30.26	-13dBm	

Remark:

- 1. Test results including cable loss;
- 2. Please refer to following plots;
- 3. We measured all modes and only recorded the worst case.







Radiated Measurement:

Remark:

We were tested all RB Configuration refer 3GPP TS134 121 for each Channel Bandwidth of WCDMA Band II, WCDMA Band V; recorded worst case for each Channel Bandwidth of WCDMA Band II, WCDMA Band V.

Temperature	24.5℃	Humidity	53.7%
Test Engineer	Lushan Kong	Configurations	WCDMA

For Less than 1 GHZ:

UMTS/TM1/ WCDMA Band II _ Low Channel

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Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization			
154.01	-45.85	3.82	3.00	8.50	-41.17	-13.00	-28.17	Н			
236.57	-46.08	4.44	3.00	6.86	-43.67	-13.00	-30.67	Н			
553.63	-42.03	3.93	3.00	8.57	-37.39	-13.00	-24.39	V			
902.21	-43.44	4.44	3.00	7.06	-40.83	-13.00	-27.83	V			

UMTS/TM1/ WCDMA Band II _ Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
150.73	-45.78	4.00	3.00	8.47	-41.31	-13.00	-28.31	Н
241.02	-46.60	4.21	3.00	6.80	-44.01	-13.00	-31.01	Н
558.83	-42.65	3.74	3.00	8.60	-37.79	-13.00	-24.79	V
905.94	-44.58	4.19	3.00	7.10	-41.67	-13.00	-28.67	V

UMTS/TM1/ WCDMA Band II _ High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
154.03	-47.52	3.88	3.00	8.56	-42.83	-13.00	-29.83	Н
239.48	-45.66	4.23	3.00	6.96	-42.93	-13.00	-29.93	Н
560.78	-44.62	3.70	3.00	8.63	-39.68	-13.00	-26.68	V
902.46	-45.24	4.16	3.00	7.04	-42.36	-13.00	-29.36	V

UMTS/TM1/ WCDMA Band V _ Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
153.29	-45.94	3.88	3.00	8.54	-41.28	-13.00	-28.28	Н
241.68	-45.99	4.33	3.00	7.13	-43.18	-13.00	-30.18	Н
556.83	-41.71	3.77	3.00	8.41	-37.07	-13.00	-24.07	V
897.79	-43.56	4.24	3.00	7.10	-40.70	-13.00	-27.70	V

UMTS/TM1/ WCDMA Band V _ Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
155.56	-45.80	3.98	3.00	8.73	-41.06	-13.00	-28.06	Н
236.89	-46.56	4.29	3.00	6.97	-43.89	-13.00	-30.89	Н
558.23	-42.93	3.93	3.00	8.48	-38.38	-13.00	-25.38	V
905.60	-44.77	4.49	3.00	7.02	-42.24	-13.00	-29.24	V

UMTS/TM1/ WCDMA Band V _ High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
149.86	-47.54	3.91	3.00	8.63	-42.83	-13.00	-29.83	Н
242.78	-45.87	4.27	3.00	7.04	-43.10	-13.00	-30.10	Н
553.27	-44.48	3.95	3.00	8.53	-39.90	-13.00	-26.90	V
906.27	-45.26	4.48	3.00	6.79	-42.95	-13.00	-29.95	V

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For More than 1 GHZ:

UMTS/TM1/ WCDMA Band II _ Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3704.80	-43.70	5.26	3.00	9.88	-39.08	-13.00	-26.08	Н
5557.20	-47.95	6.11	3.00	11.36	-42.70	-13.00	-29.70	Н
3704.80	-47.28	5.26	3.00	9.88	-42.66	-13.00	-29.66	V
5557.20	-51.25	6.11	3.00	11.36	-46.00	-13.00	-33.00	V

UMTS/TM1/ WCDMA Band II _ Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3760.00	-42.70	5.32	3.00	10.03	-37.99	-13.00	-24.99	Н
5640.00	-46.18	6.19	3.00	11.41	-40.96	-13.00	-27.96	Н
3760.00	-46.81	5.32	3.00	10.03	-42.10	-13.00	-29.10	V
5640.00	-51.36	6.19	3.00	11.41	-46.14	-13.00	-33.14	V

UMTS/TM1/ WCDMA Band II _ High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3815.20	-41.43	5.36	3.00	9.62	-37.17	-13.00	-24.17	Н
5722.80	-44.49	6.24	3.00	11.46	-39.27	-13.00	-26.27	Н
3815.20	-45.77	5.36	3.00	9.62	-41.51	-13.00	-28.51	V
5722.80	-47.20	6.24	3.00	11.46	-41.98	-13.00	-28.98	V

UMTS/TM1/ WCDMA Band V _ Low 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	-46.12	3.86	3.00	8.56	-41.42	-13.00	-28.42	Н
2479.20	-47.24	4.29	3.00	6.98	-44.55	-13.00	-31.55	Н
1652.80	-45.55	3.86	3.00	8.56	-40.85	-13.00	-27.85	V
2479.20	-48.42	4.29	3.00	6.98	-45.73	-13.00	-32.73	V

UMTS/TM1/ WCDMA Band V _ Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1672.80	-46.31	3.90	3.00	8.58	-41.63	-13.00	-28.63	Н
2509.20	-46.83	4.32	3.00	6.80	-44.35	-13.00	-31.35	Н
1672.80	-46.29	3.90	3.00	8.58	-41.61	-13.00	-28.61	V
2509.20	-49.73	4.32	3.00	6.80	-47.25	-13.00	-34.25	V

UMTS/TM1/ WCDMA Band V _ High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1693.20	-44.08	3.91	3.00	9.06	-38.93	-13.00	-25.93	Н
2539.80	-45.35	4.32	3.00	6.65	-43.02	-13.00	-30.02	Н
1693.20	-46.16	3.91	3.00	9.06	-41.01	-13.00	-28.01	V
2539.80	-47.70	4.32	3.00	6.65	-45.37	-13.00	-32.37	V

Notes:

- 1.All channel bandwidth were tested, the report recorded the worst data.
- 2. EIRP=PMea(dBm)-Pcl(dB)+PAg(dB)+Ga(dBi)
- 3. ERP = EIRP 2.15dBi as EIRP by subtracting the gain of the dipole.
- 4. Margin = EIRP Limit
- 5. We measured all modes and only recorded the worst case.

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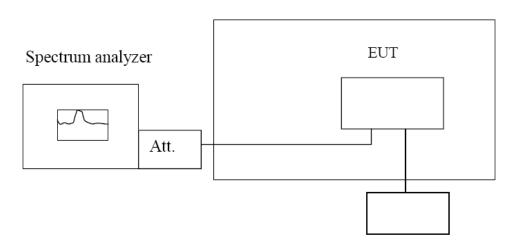
4.6 Frequency Stability under Temperature & Voltage Variations

LIMIT

FCC § 2.1055 (a), § 2.1055 (d), §22.355, §24.235.

TEST CONFIGURATION

Temperature Chamber



Variable Power Supply

TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D

Frequency Stability Under Temperature Variations:

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a "call mode". This is accomplished with the use of R&S CMW500 DIGITAL RADIO COMMUNICATION TESTER.

- 1. Measure the carrier frequency at room temperature.
- 2. Subject the EUT to overnight soak at -30℃.
- 3. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on middle channel for LTE band 5, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
- 4. Repeat the above measurements at 10° C increments from -30° C to $+50^{\circ}$ C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
- 5. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1.5 hours unpowered, to allow any self-heating to stabilize, before continuing.
- 6. Subject the EUT to overnight soak at +50°C.
- 7. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
- 8. Repeat the above measurements at 10 $^{\circ}$ C increments from +50 $^{\circ}$ C to -30 $^{\circ}$ C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements
- 9. At all temperature levels hold the temperature to +/- 0.5 ℃ during the measurement procedure.

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

Remark:

We were tested all RB Configuration refer 3GPP TS134 121 for each Channel Bandwidth of WCDMA Band II, WCDMA Band V; recorded worst case for each Channel Bandwidth of WCDMA Band II, WCDMA Band V.

Temperature	24.5℃	Humidity	53.7%
Test Engineer	Lushan Kong	Configurations	WCDMA

	UMTS/TM1/WCDMA Band II								
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict				
DC 4.3V	25	-12	-0.006	±2.50	PASS				
DC 3.5V	25	19	0.010	±2.50	PASS				
DC 3.87V	25	-18	-0.010	±2.50	PASS				
DC 3.87V	-30	-7	-0.004	±2.50	PASS				
DC 3.87V	-20	7	0.004	±2.50	PASS				
DC 3.87V	-10	11	0.006	±2.50	PASS				
DC 3.87V	0	8	0.004	±2.50	PASS				
DC 3.87V	10	16	0.009	±2.50	PASS				
DC 3.87V	20	-17	-0.009	±2.50	PASS				
DC 3.87V	30	6	0.003	±2.50	PASS				
DC 3.87V	40	-9	-0.005	±2.50	PASS				
DC 3.87V	50	20	0.011	±2.50	PASS				

	UMTS/TM1/WCDMA Band V								
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict				
DC 4.3V	25	-4	-0.005	±2.50	PASS				
DC 3.5V	25	1	0.001	±2.50	PASS				
DC 3.87V	25	-12	-0.015	±2.50	PASS				
DC 3.87V	-30	18	0.022	±2.50	PASS				
DC 3.87V	-20	14	0.017	±2.50	PASS				
DC 3.87V	-10	-17	-0.021	±2.50	PASS				
DC 3.87V	0	-7	-0.008	±2.50	PASS				
DC 3.87V	10	-13	-0.016	±2.50	PASS				
DC 3.87V	20	4	0.005	±2.50	PASS				
DC 3.87V	30	5	0.006	±2.50	PASS				
DC 3.87V	40	-20	-0.024	±2.50	PASS				
DC 3.87V	50	-20	-0.024	±2.50	PASS				

NOTE:We measured all modes and only recorded the worst case.

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5 TEST SETUP PHOTOS OF THE EUT

Reference to the Test Report: CTA24050902607.

6	EXTERNAL	AND	INTERNAL	PHOTOS	OF	THE	EUT

Reference to the T	est Report: CTA24050902601.		
	Frad at	Deposit	
	End of	Report	