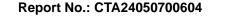


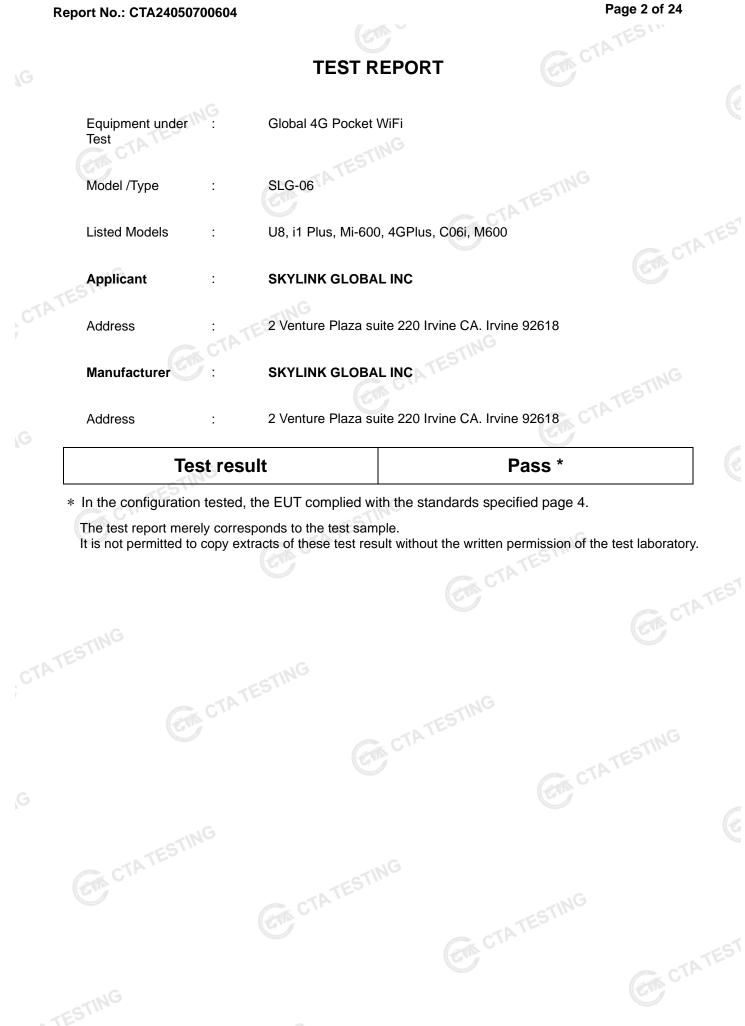
Shenzhen CTA Testing Technology Co., Ltd.

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

Cenorr Reference No	CTA 24050700C04
Report Reference No	
Compiled by	K CTA I'MG
position+printed name+signature) .:	File administrators Jinghua Xiao
Supervised by	
position+printed name+signature) .:	Project Engineer Lushan Kong
Approved by position+printed name+signature) .:	RF Manager Eric Wang Evic Wang
Date of issue	May 27, 2024
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	SKYLINK GLOBAL INC
Address	2 Venture Plaza suite 220 Irvine CA. Irvine 92618
Test specification	TESTING
	FCC CFR Title 47 Part 2, Part 24E
Standard	ANSI/TIA-603-E-2016 KDB 971168 D01
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Shenzhen CTA Testing Technology Co naterial. Shenzhen CTA Testing Techr or damages resulting from the reader context. Test item description Trade Mark Manufacturer	Global 4G Pocket WiFi N/A SKYLINK GLOBAL INC
Shenzhen CTA Testing Technology Co naterial. Shenzhen CTA Testing Techr or damages resulting from the reader context. Test item description Trade Mark Manufacturer	Global 4G Pocket WiFi N/A SKYLINK GLOBAL INC SLG-06 DC 3.85V From battery and DC 5.0V From external circuit
Shenzhen CTA Testing Technology Co naterial. Shenzhen CTA Testing Techr or damages resulting from the reader context. Test item description Trade Mark Manufacturer Model/Type reference	Global 4G Pocket WiFi N/A SKYLINK GLOBAL INC SLG-06 DC 3.85V From battery and DC 5.0V From external circuit
Shenzhen CTA Testing Technology Conaterial. Shenzhen CTA Testing Technor damages resulting from the reader context. Fest item description Frade Mark Anufacturer	Global 4G Pocket WiFi N/A SKYLINK GLOBAL INC SLG-06 DC 3.85V From battery and DC 5.0V From external circuit QPSK, 16QAM C36SM#01
Shenzhen CTA Testing Technology Conaterial. Shenzhen CTA Testing Technor damages resulting from the reader context. Fest item description Frade Mark Anufacturer Nodel/Type reference	Global 4G Pocket WiFi N/A SKYLINK GLOBAL INC SLG-06 DC 3.85V From battery and DC 5.0V From external circuit QPSK, 16QAM C36SM#01 C36SM_HLT_A13M_OVERSEA_V1.0







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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 24 Subpart E: PUBLIC MOBILE SERVICES

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

ANSI C63.26-2015: IEEE/ANSI Standard for Compliance Testing of Transmitters Used in Licensed CTATES **Radio Services**

FCCKDB971168D01 Power Meas License Digital Systems

1.2 Test Description

Test Item	Section in CFR 47	Result
RF Output Power	Part 2.1046 Part 24.232 (c)	Pass
Peak-to-Average Ratio	Part 24.232 (d)	Pass
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 24.238	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 24.238 (a)	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 24.238 (a)	Pass
Out of band emission, Band Edge	Part 22.917 (a) Part 24.238 (a)	Pass
Frequency stability	Part 2.1055 Part 24.235	Pass
1.3 Address of the test laboratory	C	GTA CTA

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 CTATESTING 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.

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. :

Measurement

Range

Notes

G			Measuremen	
2	Test	Range	t	Notes
			Uncertainty	
	Radiated Emission	9KHz~30MHz	3.02 dB	(1)
	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	/	0.57 dB	(1)
	Spectrum bandwidth	/	1.1%	(1)
	Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.10 dB	(1)
C	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 95% confidence level using a coverage factor of k=2.



(2)2 **GENERAL INFORMATION**

2.1 Environmental conditions

Date of receipt of test sample	:	Apr. 11, 2024
Given		STIN
Testing commenced on	:	Apr. 11, 2024
Testing concluded on		May 27, 2024

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

2.2 General Description of EUT

Product Description:	Global 4G Pocket WiFi	
Model/Type reference:	SLG-06	STING
Power supply:	DC 3.85V From battery and DC 5.0V From	m external circuit
Adapter information (Auxiliary test supplied by test Lab):	Model: EP-TA20CBC Input: AC 100-240V 50/60H Output: DC 5V 2A	C.
Testing sample ID :	CTA240507006-1# (Engineer sample) CTA240507006-2# (Normal sample)	
LTE		
Operation Band:	E-UTRA Band 2	CTING
Support Bandwidth:	Band 2: 1.4MHz, 3MHz, 5MHz, 10MHz, 1	5MHz, 20MHz
TX/RXFrequency Range:	E-UTRA Band 2(1850 MHz -1910MHz)	1
Modulation Type:	QPSK, 16QAM	CTA CI
Release Version:	Release 9	Constant of the second s
Category:	Cat 6	
Antenna Type:	PIFA antenna	
Antenna Gain:	Band 2: 1.0dBi	IG
Note: For more details, refer to	the user's manual of the EUT.	-ESTIN-

2.3 Description of Test Modes and Test Frequency

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.

2.4 Equipments Used during the Test

100t Equ	pment Man	ufacturer	Model No.	Equipment No.	Calibration Date	Calibration Due Date
LISI	N	R&S	ENV216	CTA-308	2023/08/02	2024/08/01
LISI	N	R&S	ENV216	CTA-314	2023/08/02	2024/08/01
TA	N	R&S	ENV216	CTA-314	2023/08/0	12

-		(ett) ~		-	ESI"
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	2021/08/07	2024/08/06
Horn Antenna	Schwarzbeck	BBHA 9120D	CTA-309	2021/08/07	2024/08/06
Loop Antenna	Zhinan	ZN30900C	CTA-311	2021/08/07	2024/08/06
Horn Antenna	Beijing Hangwei Dayang	OBH100400	CTA-336	2021/08/07	2024/08/06
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

		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	N/A	N/A

2.5 Related Submittal(s) / Grant (s)

CTATEST This submittal(s) (test report) is intended for filing to comply with of the FCC Part 24 Rules.

2.6 Modifications

No modifications were implemented to meet testing criteria. CTA STING

3 TEST CONDITIONS AND RESULTS

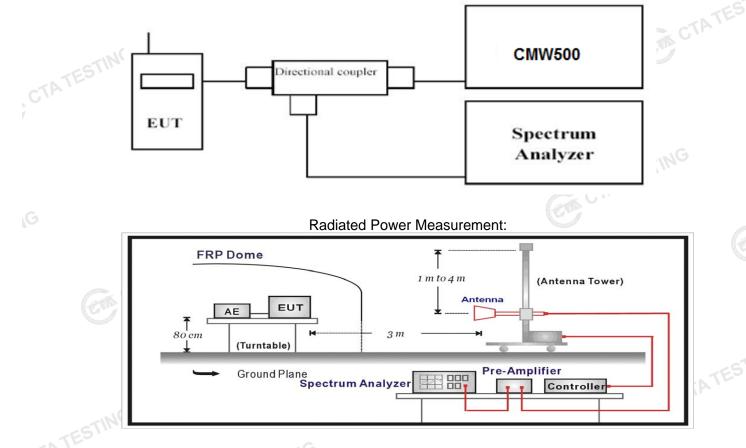
3.1 Output Power

<u>LIMIT</u>

Rule Part 24.232(b) specifies, "Mobile/portable stations are limited to 2 watts e.i.r.p.

TEST CONFIGURATION

Conducted Power Measurement



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D

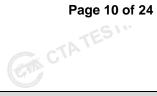
Conducted Power Measurement:

- 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 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.
- 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) Test site anechoic chamber refer to ANSI C63.4.



TEST RESULTS

Conducted Measurement:

			LTE Band 2			
BW	Modulation	RB Size	RB Offset		nannel/Frequency(· · ·
(MHz)	Modulation	KD 0120	ind offset	18700	18900	19100
				1860	1880	1900
20	QPSK	1	0	23.21	23.69	23.52
20	QPSK	1	49	23.22	23.46	23.62
20	QPSK	1	99	23.18	23.88	23.09
20	QPSK	50	0	22.09	22.16	22.25
20	QPSK	50	24	22.40	22.12	22.16
20	QPSK	50	50	22.35	22.36	22.16
20	QPSK	100	0	22.30	22.13	22.32
20	16QAM	1	0	22.42	22.30	22.42
20	16QAM	1	49	22.25	22.44	22.32
20	16QAM	1	99	22.40	22.39	22.09
20	16QAM	50	0	21.27	21.38	21.48
20	16QAM	50	24	21.30	21.20	21.52
20	16QAM	50	50	21.31	21.23	21.35
20	16QAM	100	0	21.50	21.46	21.26
BW (MHz)	Modulation	RB Size	RB Offset	Cł 18675 1857.5	nanne1/Frequency(18900 1880	MHz) 19125 1902.5
15	QPSK	1	0	23.28	23.28	23.18
15	QPSK	1	37	23.30	23.69	23.48
15	QPSK QPSK	1	74	23.06	23.33	23.40
15	QPSK	36	0	22.31	22.23	22.35
15	QPSK QPSK	36	20	22.31	22.23	22.09
15	QPSK	36	39	22.35	22.01	22.03
15	QPSK	75	0	22.33	22.20	22.11
15	16QAM	1	0	22.30	22.25	22.16
15	16QAM	1	37	22.03	22.23	22.10
15	16QAM	1	74	22.03	22.01	22.43
15	16QAM 16QAM	36	0	22.21	21.18	22.08
15	16QAM	36	20	21.33	21.18	21.25
15	16QAM	36	39	21.18	21.10	21.17
	-		59	21.40 01.00	21.47	
15	16QAM	75	0	21.22	21.47	21.19
	GW CI			21.22		ATESTING

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Channel/Frequency(MHz) 0 18900 1880 0 23.19 2 7 23.63 7 23.59 3 22.33 4 22.33 8 22.16 4 22.34 3 22.40 3 22.42 3 22.42 3 21.43 2 21.52 3 21.53 Channel/Frequency(MHz)	19150 1905 23.11 23.09 23.71 22.12 22.30 22.06 22.43 22.09 22.18 22.32 21.51 21.38 21.55
1880 0 23.19 7 23.63 7 23.59 3 22.33 4 22.33 8 22.16 4 22.34 3 22.40 3 22.45 9 22.42 8 21.43 2 21.52 8 21.53 Channel/Frequency(MHz)	1905 23.11 23.09 23.71 22.12 22.30 22.06 22.43 22.09 22.18 22.32 21.51 21.38 21.55
1880 0 23.19 7 23.63 7 23.59 3 22.33 4 22.33 8 22.16 4 22.34 3 22.40 3 22.45 9 22.42 8 21.43 2 21.52 8 21.53 Channel/Frequency(MHz)	1905 23.11 23.09 23.71 22.12 22.30 22.06 22.43 22.09 22.18 22.32 21.51 21.38 21.55
D 23.19 7 23.63 7 23.59 3 22.33 4 22.33 8 22.16 4 22.34 3 22.40 3 22.45 9 22.42 8 21.43 2 21.24 D 21.52 3 21.53 Channel/Frequency(MHz)	23.11 23.09 23.71 22.12 22.30 22.06 22.43 22.09 22.18 22.32 21.51 21.38 21.55
7 23.63 7 23.59 3 22.33 4 22.33 8 22.16 4 22.34 3 22.40 3 22.45 9 22.42 8 21.43 2 21.52 3 21.53 Channel/Frequency(MHz)	23.09 23.71 22.12 22.30 22.06 22.43 22.09 22.18 22.32 21.51 21.38 21.55
7 23.59 3 22.33 4 22.33 8 22.16 4 22.34 3 22.40 3 22.45 9 22.42 8 21.43 2 21.24 0 21.52 8 21.53 Channel/Frequency(MHz)	23.71 22.12 22.30 22.06 22.43 22.09 22.18 22.32 21.51 21.38 21.55
3 22.33 4 22.33 8 22.16 4 22.34 3 22.40 3 22.45 9 22.42 8 21.43 2 21.24 0 21.52 8 21.53 Channel/Frequency(MHz)	22.12 22.30 22.06 22.43 22.09 22.18 22.32 21.51 21.38 21.55
4 22.33 8 22.16 4 22.34 3 22.40 3 22.45 9 22.42 8 21.43 2 21.24 0 21.52 8 21.53 Channel/Frequency(MHz)	22.30 22.06 22.43 22.09 22.18 22.32 21.51 21.38 21.55
8 22.16 4 22.34 3 22.40 3 22.45 9 22.42 8 21.43 2 21.24 0 21.52 8 21.53 Channel/Frequency(MHz)	22.06 22.43 22.09 22.18 22.32 21.51 21.38 21.55
4 22.34 3 22.40 3 22.45 9 22.42 8 21.43 2 21.24 0 21.52 8 21.53 Channel/Frequency(MHz)	22.43 22.09 22.18 22.32 21.51 21.38 21.55
3 22.40 3 22.45 9 22.42 8 21.43 2 21.24 0 21.52 8 21.53 Channel/Frequency(MHz)	22.09 22.18 22.32 21.51 21.38 21.55
3 22.45 9 22.42 8 21.43 2 21.24 0 21.52 8 21.53 Channel/Frequency(MHz)	22.18 22.32 21.51 21.38 21.55
9 22.42 8 21.43 2 21.24 0 21.52 3 21.53 Channel/Frequency(MHz)	22.32 21.51 21.38 21.55
8 21.43 2 21.24 0 21.52 3 21.53 Channel/Frequency(MHz)	21.51 21.38 21.55
2 21.24 2 21.52 3 21.53 Channel/Frequency(MHz)	21.38 21.55
D 21.52 3 G 21.53 Channel/Frequency(MHz)	21.55
3 6 21.53 Channel/Frequency(MHz)	
Channel/Frequency(MHz)	21.55
5 18900	
	19175
	1907.5
3 23.25	23.25
3 23.95	23.50
2 23.68	23.31
3 22.05	22.44
	22.08
	22.12
	22.02
	22.32
	22.33
	22.42
- 04.00	21.36
	21.38
6 21.19	21.00
	21.38 21.15 21.29
9 0 3 0 9 6	22.23 22.36 22.36 22.27 22.42 22.42 22.43 21.28

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	BW				Chan	nel/Frequency(M	Hz)
	(MHz) Modulation RB Size RB Offset 3 QPSK 1 0 3 QPSK 1 8 3 QPSK 1 14 3 QPSK 8 0 3 QPSK 8 0 3 QPSK 8 4 3 QPSK 8 7 3 16QAM 1 0 3 16QAM 8 4 3 16QAM 8 7 3 16QAM 15 0 1.4 QPSK <th>RB Offset</th> <th>18615</th> <th>18900</th> <th>19185</th>	RB Offset	18615	18900	19185		
(MHz) 3 3 3 3 3 3 3 3 3 3 3 3 3	× /				1851.5	1880	1908.5
	3	OPSK	1	0	23.78	23.49	23.16
		-	1		23.38	23.39	23.94
			1		23.73	23.61	23.24
		-	8		22.15	22.18 G	22.24
					22.08	22.32	22.06
		-			22.23	22.02	22.20
		-			22.08	22.14	22.05
	3		1	0	22.30	22.20	22.23
			1		22.14	22.16	22.24
			1		22.27	22.23	22.13
	3	-	8		21.42	21.46	21.32
≤ 1	3	16QAM	8	4	21.47	21.37	21.42
	3		8		21.37	21.27	21.53
	3		15	0	21.33	21.30	21.52
		Modulation	RB Size	RB Offset		nel/Frequency(M	Hz)
	(MHz)	Modulation	ND 5120	ND OTTSET	18607	18900	19193
					1850.7	1880	1909.3
	1.4	QPSK	1	0	23.51	23.82	23.82
	1.4	-	1		23.75	23.84	23.04
	1.4	-	1	5	23.86	23.68	23.83
	1.4	QPSK	3	0	22.29	22.03	22.16
	1.4	QPSK	3	1	22.14	22.07	22.25
	1.4	QPSK	3	3	22.41	22.15	22.25
	1.4	QPSK	6	0	22.08	22.02	22.12
	1.4	16QAM	1	0	22.15	22.16	22.18
	1.4	16QAM	1		22.43	22.43	22.39
	1.4	16QAM	1	5	22.26	22.08	22.23
	1.4	16QAM	3	0	21.33	21.49	21.35
	1.4	16QAM	3	1	21.40	21.19	21.19
		16QAM	3	3	21.17	21.29	21.51
	1.4	16QAM	6	0	21.18	21.23	21.51

Radiated Measurement:

Remark:

- 1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 2; recorded worst case for each Channel Bandwidth of LTE FDD Band 2.
- 2. $EIRP=P_{Mea}(dBm)-P_{cl}(dB)+P_{Ag}(dB)+G_{a}(dBi)$

Frequency (MHz)	Р _{меа} (dBm)	P _{cl} (dB)	Ga Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1850.7	-20.41	3.41	10.23	33.6	20.01	33.01	-13.00	V
1880.0	-19.53	3.49	10.23	33.6	20.81	33.01	-12.20	VC
1909.3	-20.06	3.55	10.25	33.6	20.24	33.01	-12.77	V

LTE FDD Band 2_Channel Bandwidth 1.4MHz_QPSK

LTE FDD Band 2_Channel Bandwidth 3MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1851.5	-20.22	3.41	10.23	33.6	20.20	33.01	-12.81	VG
1880.0	-19.34	3.49	10.23	33.6	21.00	33.01	-12.01	2SIV
1908.5	-20.87	3.55	10.25	33.6	19.43	33.01	-13.58	V

LTE FDD Band 2_Channel Bandwidth 5MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	G P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1852.5	-19.43	3.41	10.23	33.6	20.99	33.01	-12.02	V
1880.0	-20.35	3.49	10.23	33.6	19.99	33.01	-13.02	V
1907.5	-20.76	3.55	10.25	33.6	19.54	33.01	-13.47	V

LTE FDD Band 2_Channel Bandwidth 10MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1855.0	-20.35	3.41	10.23	33.6	20.07	33.01	-12.94	V
1880.0	-19.09	3.49	10.23	33.6	21.25	33.01	-11.76	V
1905.0	-19.93	3.55	10.25	33.6	20.37	33.01	-12.64	V

LTE FDD Band 2_Channel Bandwidth 15MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1857.5	-19.44	3.41	10.23	33.6	20.98	33.01	-12.03	V
1880.0	-20.11	3.49	10.23	33.6	20.23	33.01	-12.78	V
1902.5	-19.36	3.55	10.25	33.6	20.94	33.01	-12.07	V

LTE FDD Band 2_Channel Bandwidth 20MHz_QPSK

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization	
1860.0	-20.87	3.41	10.23	33.6	19.55	33.01	-13.46	V	
1880.0	-20.03	3.49	10.23	33.6	20.31	33.01	-12.70	V	-51
1900.0	-19.77	3.55	10.25	33.6	20.53	33.01	-12.48	V	50
TESTING								GA CU	

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LTE FDD Band 2_Channel Bandwidth 1.4MHz_16QAM

Report No.:	CIA24050/	00604					10	ige 14 01 24
LTE FDD Ba	and 2 Cha	annel Band	lwidth 1.4Ml	Hz 16QAN	1			TESI
Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1850.7	-21.15	3.41	10.23	33.6	19.27	33.01	-13.74	V
1880.0	-20.97	3.49	10.23	33.6	19.37	33.01	-13.64	V
1909.3 🔾	-21.83	3.55	10.25	33.6	18.47	33.01	-14.54	V
				ES			~	

LTE FDD Band 2_Channel Bandwidth 3MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1851.5	-20.96	3.41	10.23	33.6	19.46	33.01	-13.55	VG
1880.0 🕞	-21.46	3.49	10.23	33.6	18.88	33.01	-14.13	V
1908.5	-20.52	3.55	10.25	33.6	19.78	33.01	-13.23	V

LTE FDD Band 2_Channel Bandwidth 5MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1852.5	-21.83	3.41	10.23	33.6	18.59	33.01	-14.42	es v
1880.0	-21.90	3.49	10.23	33.6	18.44	33.01	-14.57	V
1907.5	-20.45	3.55	10.25	33.6	19.85	33.01	-13.16	V

LTE FDD Band 2_Channel Bandwidth 10MHz_16QAM

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1855.0	-21.72	3.41	10.23	33.6	18.70	33.01	-14.31	V
1880.0	-21.15	3.49	10.23	33.6	19.19	33.01	-13.82	V
1905.0	-21.08	3.55	10.25	33.6	19.22	33.01	-13.79	V
LTE FDD Ba	and 2_Cha	nnel Band	width 15MF	lz_16QAM	CIA	GV		TAT

LTE FDD Band 2_Channel Bandwidth 15MHz_16QAM

100010	21100	0100	10120	0010	10122	00101	10110	•	
LTE FDD B	and 2_Cha	nnel Band	width 15MF	lz_16QAM	EI	C V		TA	IE?
Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization	
1857.5	-20.02	3.41	10.23	33.6	20.40	33.01	-12.61	V	1
1880.0	-21.39	3.49	10.23	33.6	18.95	33.01	-14.06	V]
1902.5	-20.08	3.55	10.25	33.6	20.22	G 33.01	-12.79	V]

LTE FDD Band 2_Channel Bandwidth 20MHz_16QAM

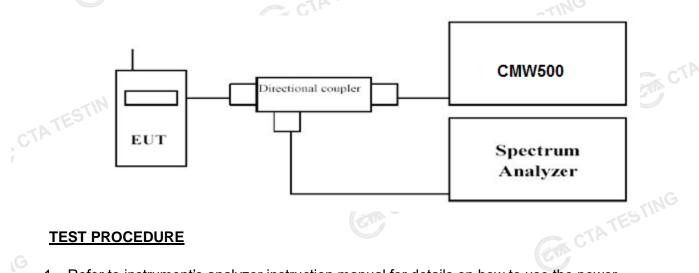
	Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	P _{Ag} (dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization	
	1860.0	-20.10	3.41	10.23	33.6	20.32	33.01	-12.69	V	
	1880.0	-20.20	3.49	10.23	33.6	20.14	33.01	-12.87	V	
	1900.0	-21.43	3.55	10.25	33.6	18.87	33.01	-14.14	V	
GA CTATE			(CTAT	ESTING	Ca	CTATES	TING		

3.2 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;
- 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,

CTATEST 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.

Passed-

TATESTING

5. Record the maximum PAPR level associated with a probability of 0.1%.

TEST RESULTS

Please refer to the appendix test data.

3.3 Occupied Bandwidth and Emission Bandwidth

LIMIT

N/A **TEST CONFIGURATION** CMW500 Directional coupler EUT Spectrum Analyzer CTATESTING

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. COM CTATES

---Passed-----

TEST RESULTS

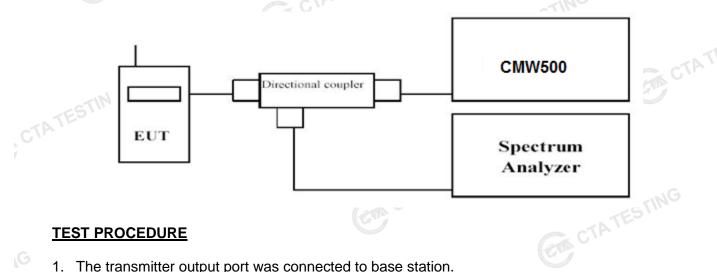
Please refer to the appendix test data. CTATES CTA TESTING

3.4 **Band Edge compliance**

LIMIT

Per FCC §24.238 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

- 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.

---Passed-----

- 3. Set EUT at maximum power through base station.
- Select lowest and highest channels for each band and different modulation. GA CTATESTING
- 5. Measure Band edge using RMS (Average) detector by spectrum

TEST RESULTS

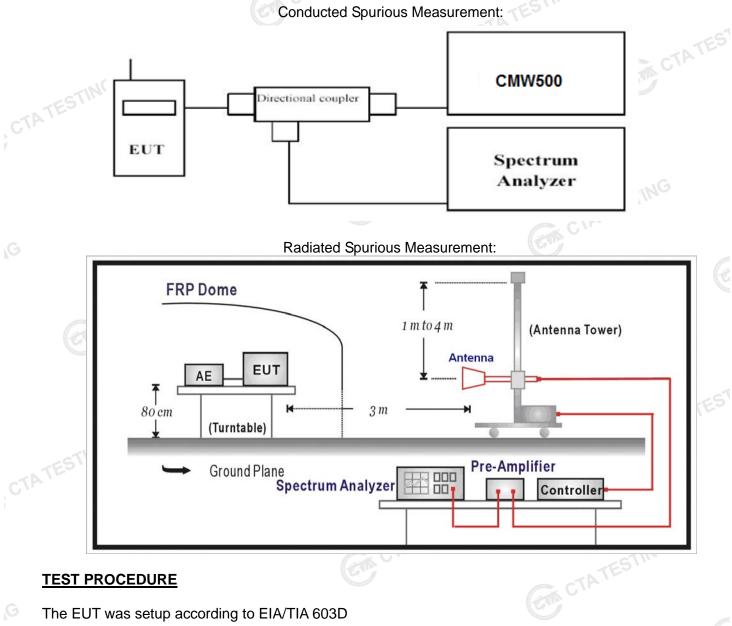
Please refer to the appendix test data. CTA TESTING

3.5 Spurious Emission

LIMIT

Per FCC §24.238, 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 603D

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 selects a channel for testing.
- d. Add a correction factor to the display of spectrum, and then test.
- CTA 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.

Radiated Spurious 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.
 - 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.
 - 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.

TEST RESULTS

i.

Conducted Measurement:

-----Passed------

Please refer to the appendix test data.

Radiated Measurement:

Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 2;

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Distance (m)	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3715.0	-40.02	4.25	3.00	12.34	-31.93	-13.00	-18.93	Н
5572.5	-52.45	4.97	3.00	13.52	-43.90	-13.00	-30.90	H
3715.0	-40.48	4.25	3.00	12.34	-32.39	-13.00	-19.39	VG
5572.5	-53.53	4.97	3.00	13.52	-44.98	-13.00	-31.98	V
GTIN								A STORE

LTE FDD Band 2 Channel Bandwidth 20MHz QPSK Low Channel

LTE FDD Band 2_Channel Bandwidth 20MHz_QPSK_ Middle Channel

Frequency (MHz)	Р _{меа} (dBm)	P _{cl} (dB)	Distance (m)	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
3720.0	-40.54	4.38	3.00	12.34	-32.58	-13.00	-19.58	HG
5580.0	-46.57	5.01	3.00	13.58	-38.00	-13.00	-25.00	ES'H
3720.0	-42.14	4.38	3.00	12.34	-34.18	-13.00	-21.18	V
5580.0	-50.16	5.01	3.00	13.58	-41.59	-13.00	-28.59	V

LTE FDD Band 2_Channel Bandwidth 20MHz_QPSK_ High Channel

	Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Distance (m)	Ga Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization	
	3800.0	-40.56	4.49	3.00	12.45	-32.60	-13.00	-19.60	Н	
	5700.0	-46.38	5.26	3.00	13.66	-37.98	-13.00	-24.98	Н	
	3800.0	-41.14	4.49	3.00	12.45	-33.18	-13.00	-20.18	V	
	5700.0	-52.96	5.26	3.00	13.66	-44.56	-13.00	-31.56	V	-61
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

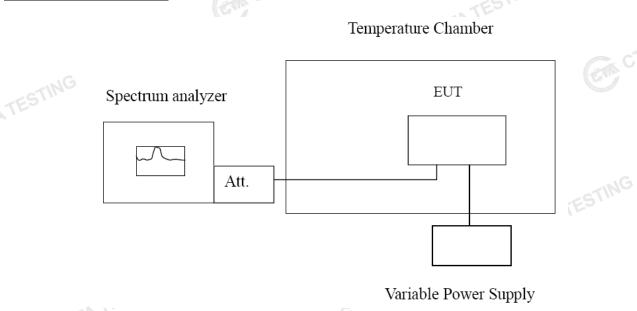
5. We measured all modes and only recorded the worst case. CTA TESTING

3.6 Frequency Stability under Temperature & Voltage Variations

LIMIT

According to §24.235, §2.1055 requirement, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation and should not exceed 2.5ppm.

TEST CONFIGURATION



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D

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 accompliated with the DIGITAL RADIO COMMUNICATION TESTER.

- 1. Measure the carrier frequency at room temperature.
- Subject the EUT to overnight soak at -30°C. 2.
- With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call 3. on middle channel for LTE band 2, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
- Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 4. 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 selfheating to stabilize, before continuing.
- Subject the EUT to overnight soak at +50°C. 6.
- With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call 7. 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 °C increments from +50 °C to -30 °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 °C 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

Please refer to the appendix test data.

-----Passed------

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