FCC PART 22/24 TEST REPORT

FCC Part 22 / Part 24

Report Reference No.....: LCS180326004AEB

FCC ID.....: 2A06CSU626S

Date of Issue.: April 27, 2018

Testing Laboratory Name: Shenzhen LCS Compliance Testing Laboratory Ltd.

Applicant's name...... Sekurus International

39252 Winchester RD Suite 107# 227 Murrieta, CA 92563, California, Address.....

Test specification::

FCC Part 22: Public Mobile Services

Standard **FCC Part 24: Personal Communication Services**

Test Report Form No LCSEMC-1.0

TRF Originator...... Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF...... Dated 2011-03

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Test item description Assist Monitoring System Sekurlt

Trade Mark: Sekurlt

Model/Type reference.....: SU626S

Listed Models: SU626S

Ratings...... DC 3.6V by Li-ion battery(5.4Ah)

Modulation QPSK

Hardware version: SU626S

Software version: SEK-SU626S-1.6

Frequency: UMTS Band II / UMTS Band V

Result.....: PASS

Compiled by:

Supervised by:

Approved by:

Calvin Weng/ Administrators

Dick Su/ Technique principal

Gavin Liang/ Manager

TEST REPORT

Test Report No.: LCS180326004AEB

April 27, 2018

Date of issue

Equipment under Test : Assist Monitoring System Sekurlt

Model /Type : SU626S

Listed Models : SU626S

Model Declaration : /

Applicant : Sekurus International

Address 39252 Winchester RD Suite 107# 227 Murrieta, CA

92563, California, USA

Manufacturer : Sekurus International

Address 39252 Winchester RD Suite 107# 227 Murrieta, CA

92563, California, USA

Factory : Sekurus International

Address 39252 Winchester RD Suite 107# 227 Murrieta, CA

92563, California, USA

Test Result:	PASS
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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.

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AO6CSU626S Report No.: LCS180326004AEB

Revison History

Revision	Issue Date	Revisions	Revised By
000	April 27, 2018	Initial Issue	Gavin Liang

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1 TEST STANDARDS

The tests were performed according to following standards:

FCC Part 22 (10-1-16 Edition): Private Land Mobile Radio Services.

FCC Part 24(10-1-16 Edition): Public Mobile Services.

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

<u>971168 D01 Power Meas License Digital Systems v03</u>: Measurement Guidance For Certification of Licensed Digital Transmitters

FCC Part 2: Frequency Allocations And Radio Treaty Matters: General Rules And Regulations.

<u>ANSI C63.26:2015:</u> American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services.

2 SUMMARY

2.1 General Remarks

Date of receipt of test sample		March 26, 2018
Testing commenced on	:	March 26, 2018
Testing concluded on	:	April 27, 2018

2.2 Product Description

The **Sekurus International**'s Model: SU626S or the "EUT" as referred to in this report; more general information as follows, for more details, refer to the user's manual of the EUT.

Name of EUT	Assist Monitoring System Sekurlt	
Model Number	SU626S	
Modulation Type	GMSK for GSM/GPRS, QPSK for UMTS	
Antenna Gain	-1.05dBi (max.) For GSM 850; -1.05dBi (max.) For GSM 900; -1.05dBi (max.) For DCS 1800; -1.05dBi (max.) For PCS 1900; -1.05dBi dBi (max.) For WCDMA Band II; -1.05dBi dBi (max.) For WCDMA Band V;	
Hardware version	SU626S	
Software version	SEK-SU626S-1.6	
GSM/EDGE/GPRS Operation Frequency Band	GSM850/PCS1900/GPRS850/GPRS1900	
UMTS Operation Frequency Band	UMTS FDD Band II/V	
LTE Operation Frequency Band	Not supported	
GSM/EDGE/GPRS	Supported GSM/GPRS	
GSM Release Version	R99	
GSM/EDGE/GPRS Power Class	GSM850:Power Class 4/ PCS1900:Power Class 1	
GPRS/EDGE Multislot Class	GPRS: Multi-slot Class 12	
GPRS operation mode	Class B	
WCDMA Release Version	R99	
HSDPA Release Version	Release 8	
HSUPA Release Version	Release 6	
DC-HSUPA Release Version	Not Supported	
Antenna Type	PIFA Antenna for 2G/3G	
Extreme temp. Tolerance	-30°C to +50°C	
GPS function	Support and only RX	
Extreme vol. Limits	3.24VDC to 3.96VDC (nominal: 3.60VDC)	

2.3 Equipment under Test

Power supply system utilised

Power supply voltage	:	0	120V / 60 Hz	0	115V / 60Hz
		0	12 V DC	0	24 V DC
		•	Other (specified in blank bel	ow)

DC 3.60V

Test frequency list

Test Mode TX/RX		RF Channel				
Test Mode	IA/KA	Low(L)	Middle (M)	High (H)		
	TX	Channel 4132	Channel 4183	Channel 4233		
WCDMA Band V	IA	826.4 MHz	836.6 MHz	846.6 MHz		
WCDIVIA Dariu V	RX	Channel 4357	Channel 4407	Channel 4458		
	KΛ	871.4 MHz	881.4 MHz	891.6 MHz		
Test Mode	TX/RX	RF Channel				
Test Mode	IA/KA	Low(L)	Middle (M)	High (H)		
	TX	Channel 9262	Channel 9400	Channel 9538		
WCDMA Band II	17	1852.4 MHz	1880.0 MHz	1907.6 MHz		
WODINIA Band II	DV	Channel 9662	Channel 9800	Channel 9938		
	RX	1932.4 MHz	1960.0 MHz	1987.6 MHz		

2.4 Short description of the Equipment under Test (EUT)

2.4.1 General Description

SU626S is subscriber equipment in the WCDMA/GSM system. The HSPA/UMTS frequency band is Band II/V. The GSM/GPRS frequency band includes GSM850 and GSM900 and DCS1800 and PCS1900, but only Band II, Band V, GSM850 and PCS1900 bands test data included in this report. The Assist Monitoring System Sekurlt implements such functions as RF signal receiving/transmitting, HSPA/UMTS and GSM/GPRS protocol processing, voice, video MMS service and etc. Externally it provides micro SD card interface and SIM card interface.

NOTE: Unless otherwise noted in the report, the functional boards installed in the units shall be selected from the below list, but not means all the functional boards listed below shall be installed in one unit.

2.5 Internal Identification of AE used during the test

AE ID*	Description
AE1	
AE2	

2.6 Normal Accessory setting

Fully charged battery was used during the test.

2.7 EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- supplied by the manufacturer
- - supplied by the lab

0	Power Cable	Length (m):	/
		Shield :	/
		Detachable :	/
0	Multimeter	Manufacturer:	/
		Model No.:	/

2.8 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: 2AO6CSU626S** filing to comply with FCC Part 22, Part 24 Rules.

2.9 Modifications

No modifications were implemented to meet testing criteria.

2.10 General Test Conditions/Configurations

2.10.1 Test Modes

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

Test Mode	Test Modes Description	
UMTS/TM1	WCDMA system, QPSK modulation	
UMTS/TM2 HSDPA system, QPSK modulation		
UMTS/TM3	HSUPA system, QPSK modulation	

Note:

1. As WCDMA, HSDPA and HSUPA with the same emission designator, test result recorded in this report at the worst case UMTS/TM1 only after exploratory scan.

2.10.2 Test Environment

Environment Parameter	Selected Values During Tests		
Relative Humidity	Ambient		
Temperature	TN	Ambient	
Voltage	VL	3.24V	
	VN	3.60V	
	VH	3.96V	

NOTE: VL=lower extreme test voltage VN=nominal voltage VH=upper extreme test voltage TN=normal temperature

3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen LCS Compliance Testing Laboratory Ltd

1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an District, Shenzhen, Guangdong, China

The sites are constructed in conformance with the requirements of ANSI C63.4 (2014) and CISPR Publication 22.

3.2 Test Facility

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

FCC Registration Number. is 254912. Industry Canada Registration Number. is 9642A-1. ESMD Registration Number. is ARCB0108. UL Registration Number. is 100571-492. TUV SUD Registration Number. is SCN1081.

TUV RH Registration Number. is UA 50296516-001

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

⁽¹⁾ expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

3.4 Test Description

3.4.1 Cellular Band (824-849MHz paired with 869-894MHz) (Band V)

Test Item	FCC Rule No.	Requirements	Verdict
Effective(Isotropic) Radiated Output Power	§2.1046, §22.913	FCC: ERP ≤ 7W.	Pass
Modulation Characteristics	§2.1047	Digital modulation	N/A
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Pass
Band Edges Compliance	§2.1051, §22.917	≤-13dBm/1%*EBW, in 1MHz bands immediately outside and adjacent to The frequency block.	Pass
Spurious Emission at Antenna Terminals	§2.1051, §22.917	≤ -13dBm/100kHz, from 9kHz to 10 th harmonics but outside authorized operating frequency ranges.	Pass
Field Strength of Spurious Radiation	§2.1053, §22.917	≤ -13dBm/100kHz.	Pass
Frequency Stability	§2.1055, §22.355	≤ ±2.5ppm.	Pass
Peak-Average Ratio	N/A		Pass
Receiver Spurious Emissions	N/A	-	Pass
NOTE 1: For the verdict, the "N/A	A" denotes "not ap	olicable", the "N/T" de notes "not tested".	

3.4.2 PCS Band (1850-1915MHz paired with 1930-1995MHz) (Band II)

Test Item	FCC Rule No.	Requirements	Verdict
Effective(Isotropic) Radiated Output Power	§2.1046, §24.232	EIRP ≤ 2W	Pass
Peak-Average Ratio	§2.1046, §24.232	≤13dB	Pass
Modulation Characteristics	§2.1047	Digital modulation	N/A
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Pass
Band Edges Compliance	§2.1051, §24.238	≤ -13dBm/1%*EBW, In 1MHz bands immediately outside and adjacent to The frequency block.	Pass
Spurious Emission at Antenna Terminals	§2.1051, §24.238	≤-13dBm/1MHz, from 9kHz to10 th harmonics but outside authorized operating frequency ranges.	Pass
Field Strength of Spurious Radiation	§2.1053, §24.238	≤ -13dBm/1MHz.	Pass
Frequency Stability §2.1055, §24.235		≤ ±2.5ppm.	Pass
Receiver Spurious Emissions	N/A		Pass
NOTE 1: For the verdict, the "N/A	A" denotes "not applica	able", the "N/T" de notes "not tested".	

Remark: 1.The measurement uncertainty is not included in the test result.

3.5 Equipments Used during the Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	Power Meter	R&S	NRVS	100444	2017-06-17	2018-06-16
2	Power Sensor	R&S	NRV-Z81	100458	2017-06-17	2018-06-16
3	Power Sensor	R&S	NRV-Z32	10057	2017-06-17	2018-06-16
4	X-series USB Peak and Average Power Sensor Aglient	Agilent	U2021XA	MY54080022	2017-10-26	2018-10-25
5	4 CH. Simultaneous Sampling 14 Bits 2MS/s	Agilent	U2531A	MY54080016	2017-10-26	2018-10-25
6	Test Software	Ascentest	AT890-SW	20160630	N/A	N/A
7	RF Control Unit	Ascentest	AT890-RFB	N/A	2017-06-17	2018-06-16
8	ESA-E SERIES SPECTRUM ANALYZER	Agilent	E4407B	MY41440754	2017-11-17	2018-11-16
9	MXA Signal Analyzer	Agilent	N9020A	MY49100040	2017-06-17	2018-06-16
10	SPECTRUM ANALYZER	R&S	FSP	100503	2017-06-17	2018-06-16
11	MXG Vector Signal Generator	Agilent	N5182A	MY47071151	2017-11-17	2018-11-16
12	ESG VECTOR SIGNAL GENERATOR	Agilent	E4438C	MY42081396	2017-11-17	2018-11-16
13	PSG Analog Signal Generator	Agilent	E8257D	MY4520521	2017-11-17	2018-11-16
14	Universal Radio Communication Tester	R&S	CMU 200	105788	2017-06-17	2018-06-16
15	WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW 500	103818	2017-06-17	2018-06-16
16	RF Control Unit	Tonscend	JS0806-1	N/A	2017-06-17	2018-06-16
17	DC Power Supply	Agilent	E3642A	N/A	2017-11-17	2018-11-16
18	LTE Test Software	Tonscend	JS1120-1	N/A	N/A	N/A
19	Temperature & Humidity Chamber	GUANGZHOU GOGNWEN	GDS-100	70932	2017-10-11	2018-10-10
20	DC Source	CHROMA	62012P-80-60	34782951	2017-10-11	2018-10-10
21	RF Filter	Micro-Tronics	BRC50718	S/N-017	2017-06-17	2018-06-16
22	RF Filter	Micro-Tronics	BRC50719	S/N-011	2017-06-17	2018-06-16
23	RF Filter	Micro-Tronics	BRC50720	S/N-011	2017-06-17	2018-06-16
24	RF Filter	Micro-Tronics	BRC50721	S/N-013	2017-06-17	2018-06-16
25	RF Filter	Micro-Tronics	BRM50702	S/N-195	2017-06-17	2018-06-16
26	Splitter/Combiner	Micro-Tronics	PS2-15	CB11-20	2017-06-17	2018-06-16
27	Splitter/Combiner	Micro-Tronics	CB11-20	N/A	2017-06-17	2018-06-16
28	Attenuator	Micro-Tronics	PAS-8-10	S/N23466	2017-06-17	2018-06-16
29	Exposure Level Tester	Narda	ELT-400	N-0713	2017-04-03	2018-04-02
30	B-Field Probe	Narda	ELT-400	M-1154	2017-04-11	2018-04-10
31	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2017-06-17	2018-06-16
32	Positioning Controller	MF	MF-7082	/	2017-06-17	2018-06-16
33	EMI Test Software	AUDIX	E3	N/A	2017-06-17	2018-06-16
34	EMI Test Receiver	R&S	ESR 7	101181	2017-06-17	2018-06-16
35	AMPLIFIER	QuieTek	QTK-A2525G	CHM10809065	2017-11-17	2018-11-16
36	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2017-06-23	2018-06-22
37	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2017-05-02	2018-05-01
38	Horn Antenna	EMCO	3115	6741	2017-06-23	2018-06-22
39	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2017-09-21	2018-09-20
40	Broadband Preamplifier	SCHWARZBECK	BBV 9719	9719-025	2017-09-21	2018-09-20
41	RF Cable-R03m	Jye Bao	RG142	CB021	2017-06-17	2018-06-16
42	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2017-06-17	2018-06-16
Note: All	equipment is calibrated through GUANG	ZHOU LISAI CALIBR	ATION AND TEST O	CO.,LTD.	1	

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3.6 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 ETSI TR 100 028 " Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics" and is documented in the Shenzhen LCS Compliance Testing Laboratory 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 LCS Compliance Testing Laboratory Ltd. is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	3.10 dB	(1)
Radiated Emission	1~18GHz	3.80 dB	(1)
Radiated Emission	18-40GHz	3.90 dB	(1)
Conducted Disturbance	0.15~30MHz	1.63 dB	(1)
Conducted Power	9KHz~18GHz	0.61 dB	(1)
Spurious RF Conducted Emission	9KHz~40GHz	1.22 dB	(1)
Band Edge Compliance of RF Emission	9KHz~40GHz	1.22 dB	(1)
Occuiped Bandwidth	9KHz~40GHz	-	(1)

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

4 TEST CONDITIONS AND RESULTS

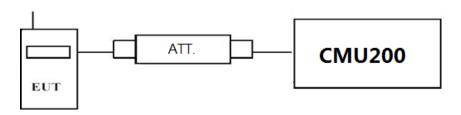
4.1 Output Power

TEST APPLICABLE

During the process of testing, the EUT was controlled via R&S Digital Radio Communication tester (CMU200) to ensure max power transmission and proper modulation. This result contains output power and EIRP measurements for the EUT. In all cases, output power is within the specified limits.

4.1.1. Conducted Output Power

TEST CONFIGURATION



TEST PROCEDURE

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 CMU200 by an Att.
- c) EUT Communicate with CMU200 then selects a channel for testing.
- d) Add a correction factor to the display CMU200, and then test.

TEST RESULTS

	band	WCDMA Band II result (dBm)			WCDMA Band V result (dBm)			
Item		Channe	l/Frequen	cy(MHz)	Channe	Channel/Frequency(MHz)		
	sub-test	9262/	9400/	9538/	4132/	4183/	4233/	
	รนม-เฮรเ	1852.4	1880	1907.6	826.4	836.6	846.6	
RMC	12.2kbps RMC	23.52	23.80	23.54	23.46	23.55	23.66	
St	Sub –Test 1	22.92	23.01	22.86	22.86	22.84	22.96	
HSDPA	Sub –Test 2	22.74	22.83	22.95	22.92	23.02	22.96	
ПОДРА	Sub –Test 3	23.00	22.85	22.81	22.73	22.86	22.88	
	Sub –Test 4	22.96	23.02	22.89	23.03	22.80	22.80	
	Sub –Test 1	22.92	22.82	23.03	22.89	22.94	22.85	
	Sub –Test 2	22.96	22.80	22.96	22.81	22.87	22.81	
HSUPA	Sub –Test 3	22.90	23.01	23.02	22.85	22.89	23.07	
	Sub –Test 4	23.03	22.90	22.84	22.77	22.86	22.86	
	Sub –Test 5	22.90	22.98	23.01	22.90	22.91	22.96	

4.1.1 Radiated Output Power

TEST DESCRIPTION

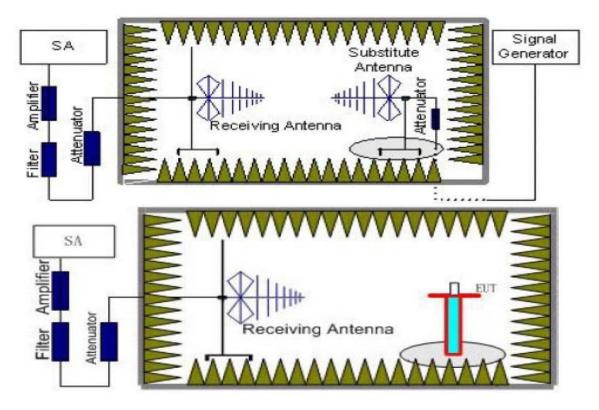
This is the test for the maximum radiated power from the EUT.

Rule Part 27.232(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."

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

Per Part 27.50(d) (4) specifies, Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755MHz band are limited to 1W EIRP. Fixed stations operating in this band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in this band must employ a means for limiting power to the minimum necessary for successful communications.

TEST CONFIGURATION



TEST PROCEDURE

- 1. EUT was placed on a 1.50 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.50m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
- 2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
- 3. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=10MHz, VBW=10MHz, And the maximum value of the receiver should be recorded as (P_r).
- 4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the

- SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AO6CSU626S Report No.: LCS180326004AEB substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
- 5. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (PcI), the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
 - The measurement results are obtained as described below:
 - Power(EIRP)= P_{Mea} + P_{Ag} P_{cl} + G_a
- 6. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
- 7. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP-2.15dBi.

TEST LIMIT

According to 22.913(a)(5), 24.232(c), the ERP(EIRP) should be not exceeding following table limits:

	Burst Average EIRP
UMTS Band II	FCC: ≤33.01dBm (2W)

	Burst Average ERP
UMTS Band V	FCC: ≤38.45dBm (7W)

TEST RESULTS

Remark:

- 1. We were tested all Configuration refer 3GPP TS134 121.
- 2. $EIRP=P_{Mea}(dBm)-P_{cl}(dB)+P_{Ag}(dB)+G_a(dBi)$
- 3. ERP = EIRP 2.15dBi as EIRP by subtracting the gain of the dipole.
- 4. Margin = Emission Level Limit
- 5. We test the H direction and V direction recorded worst case.

UMTS/TM1/UMTS Band II

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain (dB)	P _{Ag} (dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1852.40	-18.31	4.03	8.38	35.51	21.55	33.01	-11.45	V
1880.00	-18.25	4.08	8.33	35.56	21.56	33.01	-11.44	V
1907.60	-19.29	4.14	8.26	35.63	20.46	33.01	-12.54	V

UMTS/TM1/UMTS Band V

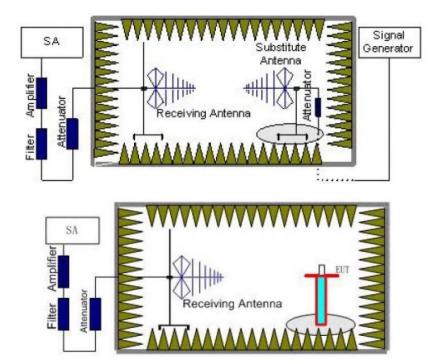
Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	G _a Antenna Gain (dB)	Correction (dB)	P _{Ag} (dB)	Burst Average ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
826.40	-14.53	3.45	8.45	2.15	33.79	22.11	38.45	-16.34	V
836.60	-13.97	3.49	8.45	2.15	33.85	22.69	38.45	-15.76	V
846.60	-13.53	3.55	8.36	2.15	33.88	23.01	38.45	-15.44	V

4.2 Radiated Spurious Emssion

TEST APPLICABLE

According to the TIA/EIA 603D:2010 and FCC Part 2.1033 test method, The Receiver or Spectrum was scanned from lowest frequency frequency generated within the equipment to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier that can be as high as 1910 MHz. The resolution bandwidth is set as outlined in Part 27.238, Part 24.238, Part 22.917, RSS-132 §5.5 and RSS-133 §6.5. The spectrum is scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of WCDMA Band II, WCDMA Band IV and WCDMA Band V.

TEST CONFIGURATION



TEST PROCEDURE

- 1. EUT was placed on a 1.50 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.50 m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
- 2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
- 3. The EUT is then put into continuously transmitting mode at its maximum power level during the test.Set Test Receiver or Spectrum RBW=1MHz,VBW=3MHz, And the maximum value of the receiver should be recorded as (P_r).
- 4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

- 5. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl), the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
 The measurement results are obtained as described below:
 - Power(EIRP)= P_{Mea} + P_{Ag} P_{cl} + G_a
- 6. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
- 7. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.
- 8. In order to make sure test results more clearly, we set frequency range and sweep time for difference frequency range as follows table:

Working Frequency	Subrange (GHz)	RBW	VBW	Sweep time (s)
	0.00009~0.15	1KHz	3KHz	30
	0.00015~0.03	10KHz	30KHz	10
UMTS/TM1/	0.03~1	100KHz	300KHz	10
WCDMA Band V	1~2	1 MHz	3 MHz	2
WCDIVIA Bariu V	2~5	1 MHz	3 MHz	3
	5~8	1 MHz	3 MHz	3
	8~10	1 MHz	3 MHz	3
	0.00009~0.15	1KHz	3KHz	30
	0.00015~0.03	10KHz	30KHz	10
	0.03~1	100KHz	300KHz	10
	1~2	1 MHz	3 MHz	2
UMTS/TM1/	2~5	1 MHz	3 MHz	3
WCDMA Band II	5~8	1 MHz	3 MHz	3
	8~11	1 MHz	3 MHz	3
	11~14	1 MHz	3 MHz	3
	14~18	1 MHz	3 MHz	3
	18~20	1 MHz	3 MHz	2

TEST LIMITS

According to 24.238, 22.917 and 27.54 specify that 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 + 10 log(P) dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

Frequency	Channel	Frequency Range	Verdict
UMTS/TM1/ WCDMA	Low	9KHz - 10GHz	PASS
Band V	Middle	9KHz - 10GHz	PASS
banu v	High	9KHz - 10GHz	PASS
UMTS/TM1/ WCDMA Band II	Low	9KHz – 18GHz	PASS
	Middle	9KHz – 18GHz	PASS
	High	9KHz – 18GHz	PASS

TEST RESULTS

Remark:

- 1. We were tested all Configuration refer 3GPP TS134 121.
- 2. $EIRP=P_{Mea}(dBm)-P_{cl}(dB)+P_{Ag}(dB)+G_a(dBi)$
- 3. ERP = EIRP 2.15dBi as EIRP by subtracting the gain of the dipole.
- 4. Margin = EIRP Limit

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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
3704.8	-39.77	5.26	3.00	9.88	-35.15	-13.00	-22.15	Н
5557.2	-44.86	6.11	3.00	11.36	-39.61	-13.00	-26.61	Н
3704.8	-44.54	5.26	3.00	9.88	-39.92	-13.00	-26.92	V
5557.2	-48.36	6.11	3.00	11.36	-43.11	-13.00	-30.11	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
3760.0	-38.47	5.32	3.00	10.03	-33.76	-13.00	-20.76	Н
5640.0	-44.13	6.19	3.00	11.41	-38.91	-13.00	-25.91	Н
3760.0	-43.73	5.32	3.00	10.03	-39.02	-13.00	-26.02	V
5640.0	-47.76	6.19	3.00	11.41	-42.54	-13.00	-29.54	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
3815.2	-43.32	5.36	3.00	9.62	-39.06	-13.00	-26.06	Н
5722.8	-51.16	6.24	3.00	11.46	-45.94	-13.00	-32.94	Н
3815.2	-46.45	5.36	3.00	9.62	-42.19	-13.00	-29.19	V
5722.8	-53.86	6.24	3.00	11.46	-48.64	-13.00	-35.64	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
1652.8	-48.12	3.86	3.00	8.56	-43.42	-13.00	-30.42	Н
2479.2	-49.15	4.29	3.00	6.98	-46.46	-13.00	-33.46	Н
1652.8	-44.19	3.86	3.00	8.56	-39.49	-13.00	-26.49	V
2479.2	-44.85	4.29	3.00	6.98	-42.16	-13.00	-29.16	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
1672.8	-49.43	3.9	3.00	8.58	-44.75	-13.00	-31.75	Н
2509.2	-51.00	4.32	3.00	6.8	-48.52	-13.00	-35.52	Н
1672.8	-45.28	3.9	3.00	8.58	-40.60	-13.00	-27.60	V
2509.2	-45.41	4.32	3.00	6.8	-42.93	-13.00	-29.93	V

UMTS/TM1/ WCDMA Band V _ High Channel

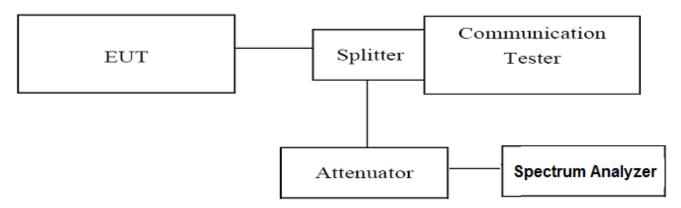
Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1693.2	-52.20	3.91	3.00	9.06	-47.05	-13.00	-34.05	Н
2539.8	-54.96	4.32	3.00	6.65	-52.63	-13.00	-39.63	Н
1693.2	-49.71	3.91	3.00	9.06	-44.56	-13.00	-31.56	V
2539.8	-51.32	4.32	3.00	6.65	-48.99	-13.00	-35.99	V

4.3 Occupied Bandwidth and Emission Bandwith

TEST APPLICABLE

Similar to conducted emissions; occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. The table below lists the measured 99% Bandwidth and -26dBc Bandwidth.

TEST CONFIGURATION



TEST PROCEDURE

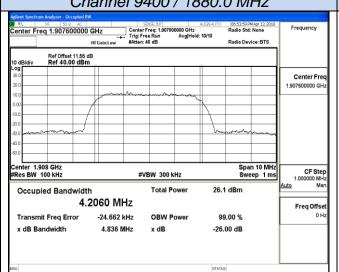
- 1. The EUT was set up for the max output power with pseudo random data modulation;
- 2. The Occupied bandwidth and Emission Bandwidth were measured with Aglient Spectrum Analyzer N9020A (peak);
- 3. Set RBW=100KHz,VBW=300KHz,Span=10MHz,SWT=Auto;
- 4. Set SPA Max hold and View, Set 99% Occupied Bandwidth/ Set -26dBc Occupied Bandwidth
- 5. These measurements were done at 3 frequencies for WCDMA band II/V. (low, middle and high of operational frequency range).

TEST RESULTS

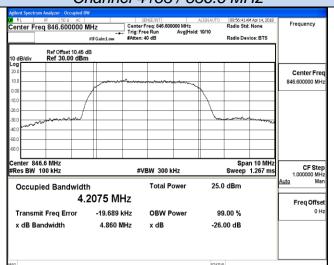
Test Mode	Channel	Frequency (MHz)	Occupied Bandwidth (99% BW) (KHz)	Emission Bandwidth (-26 dBc BW) (KHz)	Verdict
UMTS/TM1/ WCDMA Band II	9262	1852.40	4220.6	4831	PASS
	9400	1880.00	4206.7	4839	PASS
WCDIVIA Ballu II	9538	1907.60	4206.0	4836	PASS
UMTS/TM1/	4132	826.40	4188.7	4864	PASS
WCDMA Band	4183	836.60	4209.4	4883	PASS
V	4233	846.60	4207.5	4860	PASS

Remark:

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



Channel 9538 / 1907.6 MHz



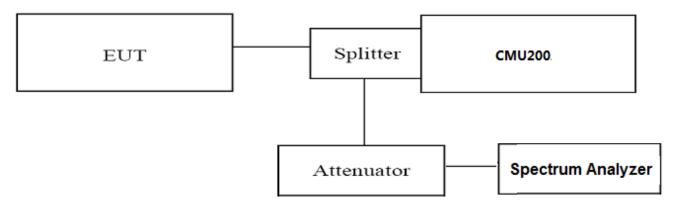
Channel 4233 / 846.6 MHz

4.4 Band Edge Compliance

TEST APPLICABLE

During the process of testing, the EUT was controlled via Digital Radio Communication tester (CMU200) to ensure max power transmission and proper modulation.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was set up for the max output power with pseudo random data modulation;
- 2. The power was measured with Spectrum Analyzer N9020A;
- 3. Set RBW=51KHz,VBW=200KHz,Span=2MHz,SWT=Auto,Dector: RMS;

These measurements were done at 2 frequencies for WCDMA Band II/V. (low and high of operational frequency range).

TEST RESULTS

	UMTS/TM1/WCDMA Band II								
Test Mode	Channel	Frequency (MHz)	Band Edg Compliance (dBm)	Limits (dBm)	Verdict				
UMTS/TM1/WCDMA	9262	1852.40	<-13dBm	-13dBm	PASS				
Band II	9538	1907.60	<-13dBm	-13dBm	PASS				
		UMTS/TM1/WCI	DMA Band V						
Test Mode	Channel	Frequency (MHz)	Band Edg Compliance (dBm)	Limits (dBm)	Verdict				
UMTS/TM1/WCDMA	4132	826.40	<-13dBm	-13dBm	PASS				
Band V	4233	846.60	<-13dBm	-13dBm	FASS				

Remark:

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

#VBW 200 kHz*

Channel 9538 / 1907.6 MHz

Span 2.000 MHz Sweep 1.000 ms (1001 pts)

#VBW 200 kHz*

Channel 4233 / 846.6 MHz

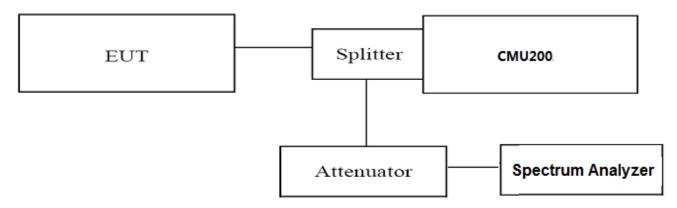
4.5 Spurious Emssion on Antenna Port

TEST APPLICABLE

The following steps outline the procedure used to measure the conducted emissions from the EUT.

- 1. Determine frequency range for measurements: From CFR 2.1057 the spectrum should be investigated from the lowest radio frequency generated in the equipment up to at least the 10th harmonic of the carrier frequency. For the equipment of WCDMA band II, this equates to a frequency range of 9 KHz to 20GHz, data taken from 30 MHz to 20 GHz. For WCDMA Band V, this equates to a frequency range of 9 KHz to 20 GHz, data taken from 30 MHz to 20 GHz.
- 2. The sweep time is set automatically by instrument itself. That should be the optimal sweep time for the span and the RBW. If the sweep time is too short, that is sweep is too fast, the sweep result is not accurate; if the sweep time is too long, that is sweep is too low, some frequency components may be lost. The instrument will give an optimal sweep time according the selected span and RBW.
- The procedure to get the conducted spurious emission is as follows:
 The trace mode is set to MaxHold to get the highest signal at each frequency;
 Wait 25 seconds;
 Get the result.
- 4. Determine EUT transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was set up for the max output power with pseudo random data modulation;
- 2. The power was measured with Spectrum Analyzer N9020A;
- 3. These measurements were done at 3 frequencies for WCDMA band II/V. (low, middle and high of operational frequency range).

TEST LIMIT

Part 24.238, Part 22.917 and Part 27.54 specify that 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 + 10 log(P) dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

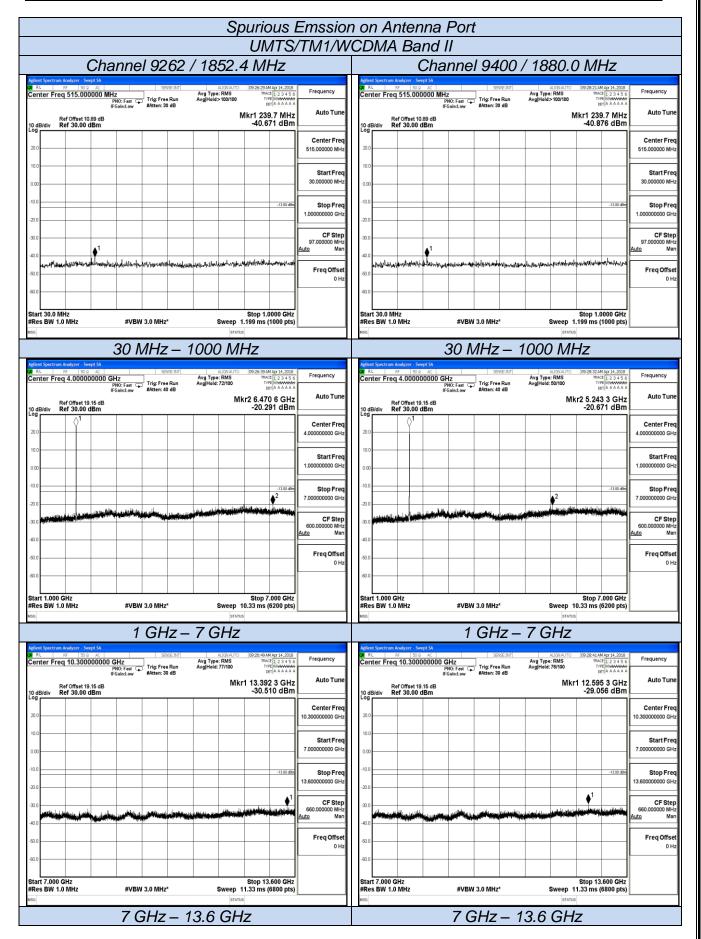
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AO6CSU626S Report No.: LCS180326004AEB

TEST RESULTS

Test Mode	Channel	Frequency (MHz)	Spurious RF Conducted Emission (dBm)	Limits (dBm)	Verdict
UMTS/TM1/WCDMA	9262	1852.40	<-13dBm	-13dBm	
Band II	9400	1880.00	<-13dBm	-13dBm	PASS
Danu II	9538	1907.60	<-13dBm	-13dBm	
UMTS/TM1/WCDMA	4132	826.40	<-13dBm	-13dBm	
Band V	4183	836.60	<-13dBm	-13dBm	PASS
Danu v	4233	846.60	<-13dBm	-13dBm	

Remark:

- 1. Test results including cable loss;
- 2. Please refer to following plots;
- 3. Not reorded test plots from 9 KHz to 30 MHz as emission levels 20dB lower than emission limit;



Stop 20.000 GHz Sweep 16.21 ms (6400 pts)

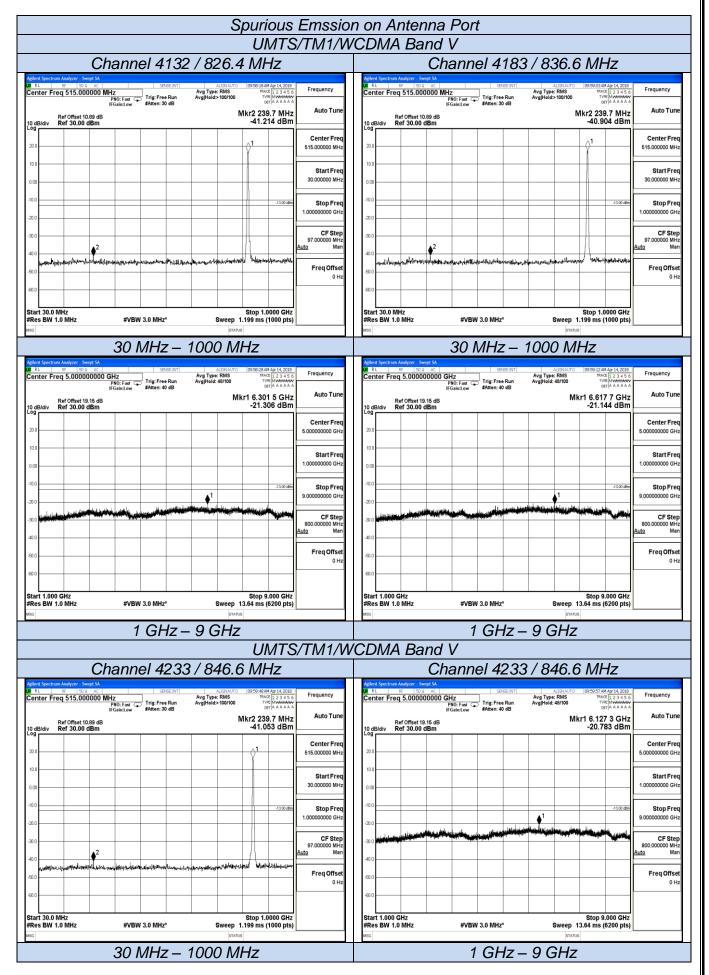
#VBW 3.0 MHz*

13.6 GHz - 20 GHz

Stop 13.600 GHz Sweep 11.33 ms (6800 pts)

7 GHz - 13.6 GHz

Start 7.000 GHz #Res BW 1.0 MHz



4.6 Frequency Stability Test

TEST APPLICABLE

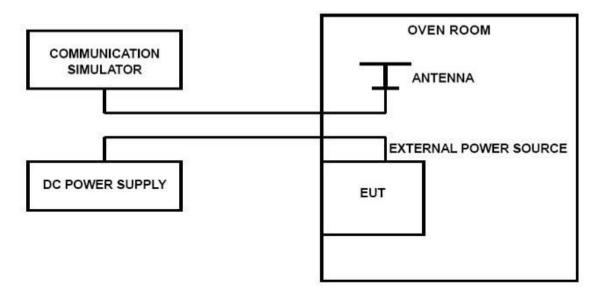
- 1. According to FCC Part 2 Section 2.1055 (a)(1), the frequency stability shall be measured with variation of ambient temperature from -30℃ to +50℃ centigrade.
- 2. According to FCC Part 2 Section 2.1055 (e)(2) and RSS-GEN, for battery powered equipment, the frequency stability shall be measured with reducing primary supply voltage to the battery operating end point, which is specified by the manufacture.
- 3. Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried voltage equipment and the end voltage point was 3.40V.

TEST PROCEDURE

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 CMU200 DIGITAL RADIO COMMUNICATION TESTER.

- 1. Measure the carrier frequency at room temperature;
- 2. Subject the EUT to overnight soak at -30°C;
- 3. With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on middle channel of WCDMA Band II/V, 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°C. Allow at least 0.5 hours at each temperature, unpowered, before making measurements;
- 5. Remeasure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments remeasuring carrier frequency at each voltage. Pause at nominal voltage for 0.5 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 CMU200 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°C increments from +50°C to -30°C. Allow at least 0.5 hours at each temperature, unpowered, before making measurements;
- 9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure;

TEST CONFIGURATION



TEST LIMITS

For Hand carried battery powered equipment

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d)(2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of between 3.40VDC and 4.35VDC, with a nominal voltage of 3.80DC. Operation above or below these voltage limits is prohibited by transceiver software in order to prevent improper operation as well as to protect components from overstress. These voltages represent a tolerance of -10 % and +12.5 %. For the purposes of measuring frequency stability these voltage limits are to be used.

For equipment powered by primary supply voltage

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. For this EUT section 2.1055(d)(1) applies. This requires varying primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.

TEST RESULTS

		UMTS/TM1/WC	DMA Band II		
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
3.40	25	8	0.004	2.50	PASS
3.80	25	-10	-0.005	2.50	PASS
4.35	25	10	0.005	2.50	PASS
3.80	-30	7	0.004	2.50	PASS
3.80	-20	5	0.003	2.50	PASS
3.80	-10	8	0.004	2.50	PASS
3.80	0	-9	-0.005	2.50	PASS
3.80	10	-7	-0.004	2.50	PASS
3.80	20	11	0.006	2.50	PASS
3.80	30	-11	-0.006	2.50	PASS
3.80	40	10	0.005	2.50	PASS
3.80	50	8	0.004	2.50	PASS

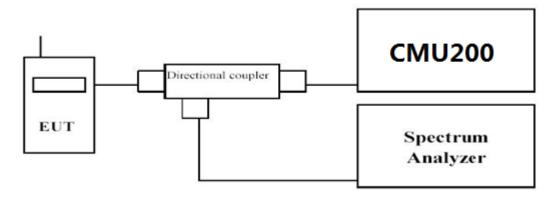
	UMTS/TM1/WCDMA Band V									
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict					
3.40	25	-8	-0.010	2.50	PASS					
3.80	25	9	0.011	2.50	PASS					
4.35	25	12	0.014	2.50	PASS					
3.80	-30	-11	-0.013	2.50	PASS					
3.80	-20	8	0.010	2.50	PASS					
3.80	-10	6	0.007	2.50	PASS					
3.80	0	9	0.011	2.50	PASS					
3.80	10	9	0.011	2.50	PASS					
3.80	20	-7	-0.008	2.50	PASS					
3.80	30	-11	-0.013	2.50	PASS					
3.80	40	10	0.012	2.50	PASS					
3.80	50	11	0.013	2.50	PASS					

4.7 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 timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
- 5. Record the maximum PAPR level associated with a probability of 0.1%.

TEST RESULTS

Test Mode	Channel	Frequency (MHz)	PAPR Value (dB)	Limits (dB)	Verdict
UMTS/TM1/	9262	1852.40	2.88	13.0	PASS
WCDMA Band	9400	1880.00	3.01	13.0	PASS
II	9538	1907.60	2.91	13.0	PASS
UMTS/TM1/	4132	826.40	2.96	13.0	PASS
WCDMA Band	4183	836.60	2.53	13.0	PASS
V	4233	846.60	2.75	13.0	PASS

Remark:

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

5 Test Setup Photos of the EUT

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

6 External Photos of the EUT

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

7 Internal Photos of the EUT

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

End of Report.....