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Test Report No.: W7L-240618W002RF05



Certificate # 3939.01

FCC TEST REPORT

(PART 22)

Applicant:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

Manufacturer or Supplier:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Product:	Mobile Phone
Brand Name:	POCO
Model Name:	2409FPCC4G
FCC ID:	2AFZZPCC4G
Date of tests:	Jul. 12, 2024 ~ Aug. 05, 2024

The tests have been carried out according to the requirements of the following standard:

- FCC PART 22, Subpart H FCC Part 2
 ANSI/TIA/EIA-603-D ANSI C63.26-2015
 ANSI/TIA/EIA-603-E

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department

Date: Aug. 05, 2024 Date: Aug. 05, 2024

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-240618W002RF05	Original release	Aug. 05, 2024



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1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 22 & Part 2		
STANDARD SECTION	TEST TYPE	RESULT
§2.1046	Conducted Output Power	Compliance
§22.913 (a)(5)	Effective Radiated Power	Compliance
§2.1055 §22.355	Frequency Stability	Compliance
§2.1049	Occupied Bandwidth	Compliance
§22.913 (d)	Peak to average ratio*	Compliance
§22.917(a)	Band Edge Measurements	Compliance
§2.1051 §22.917(a)	Conducted Spurious Emissions	Compliance
§2.1053 §22.917(a)	Radiated Spurious Emissions	Compliance

* Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01.

NOTE:

1. The worst-case scenario for all measurements is based on an engineering evaluation made on different modulations. Then, QPSK and 16QAM were observed as the worst mode to LTE bands respectively and set for all conducted and radiated. Output power measurements were measured on QPSK, 16QAM, and 64QAM modulations, and tests other than output power are performed only in worse-case QPSK and 16QAM modulations.
2. This report refers to the data of W7L-240618W001RF05(FCC ID: 2AFZZRAD4G), the difference of 24094RAD4G and 2409FPCC4G is model, FCC ID, brand name and 2409FPCC4G remove one camera. This report verify power and RSE worse case. The verified power is similar as the original report. So this report only update the RSE worse case(EDGE 850 CH189), other data of spot-Check Please Refer to folder the naming (xiaomi O17p Spot-check).
3. List of the verified results (worse case) in the test item as follows:

Test Item / Report No.	W7L-240618W001RF05	W7L-240618W002RF05
Radiated Emission Test	EDGE 850 CH189 Margin:-22.27Db	EDGE 850 CH189 Margin:-38.88Db

Remark: All validation data are within 3dB variation or better, the new result is better than the original data.



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1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	UNCERTAINTY
Maximum Peak Output Power	±2.06dB
Frequency Stability	±76.97Hz
Radiated emissions (9KHz~30MHz)	±2.68dB
Radiated emissions (30MHz~1GHz)	±4.98dB
Radiated emissions (1GHz ~6GHz)	±4.70dB
Radiated emissions (6GHz ~18GHz)	±4.60dB
Radiated emissions (18GHz ~40GHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Band Edge Measurements	±4.70dB
Peak to average ratio	±0.76dB

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



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1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Mar. 28,24	Mar. 27,25
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.10,24	May.09,25
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.03,23	Sep.02,24
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Feb. 18,24	Feb. 17,25
Horn Antenna	ETS-LINDGREN	3117	00168692	Feb. 18,24	Feb. 17,25
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Sep.04, 23	Sep.03, 24
Radio Communication Analyzer	ANRITSU	MT8820C	6201465426	Feb. 14,24	Feb. 13,25
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May. 06,24	May. 05,25
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.10,24	May.09,25
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 17,24	Feb.16,25
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	Nov. 14,23	Nov. 13,26
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	JS1120	3.1.36	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	50HF-010-SMA	May. 06,24	May. 05,25
Power Meter	Anritsu	ML2495A	1506002	Feb. 14,24	Feb. 13,25
Power Sensor	Anritsu	MA2411B	1339352	Feb. 14,24	Feb. 13,25
Temperature Chamber	ESPEC	SH-242	93000855	May. 06,24	May. 05,25
MXG Analog Microwave Signal Generator	KEYSIGHT	N5183A	MY50143024	Feb. 14,24	Feb. 13,25
Base station R&S CMW500	Rohde&Schwarz	CMW500	153085	May.10,24	May.09,25
DC Source	Kikusui/JP	PMX18-5A	N/A	Aug. 11,23	Aug. 10,24

- NOTE:**
1. The calibration interval of the above test instruments is 12 months or 36 months, and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
 3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
 4. The FCC Site Registration No. is 525120; The Designation No. is CN1171.



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2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Mobile Phone	
BRAND NAME	POCO	
MODEL NAME	2409FPCC4G	
NOMINAL VOLTAGE	5/5~11Vdc(adapter or host equipment) 3.91Vdc (Li-ion, battery)	
MODULATION TYPE	GSM/EDGE	GMSK, 8PSK
	WCDMA	BPSK, QPSK
	LTE	QPSK, 16QAM, 64QAM
FREQUENCY RANGE	GSM/EDGE	824.2MHz ~ 848.8MHz
	WCDMA	826.4MHz ~ 846.6MHz
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	824.7MHz ~ 848.3MHz
	LTE Band 5 (Channel Bandwidth: 3MHz)	825.5MHz ~ 847.5MHz
	LTE Band 5 (Channel Bandwidth: 5MHz)	826.5MHz ~ 846.5MHz
	LTE Band 5 (Channel Bandwidth: 10MHz)	829MHz ~ 844MHz
	LTE Band 26 (Channel Bandwidth: 1.4MHz)	824.7MHz ~ 848.3MHz
	LTE Band 26 (Channel Bandwidth: 3MHz)	825.5MHz ~ 847.5MHz
	LTE Band 26 (Channel Bandwidth: 5MHz)	826.5MHz ~ 846.5MHz
	LTE Band 26 (Channel Bandwidth: 10MHz)	829MHz ~ 844MHz
	LTE Band 26 (Channel Bandwidth: 15MHz)	831.5MHz ~ 841.5MHz
MAX. ERP POWER	GSM	540.75mW
	EDGE	119.67mW
	WCDMA	67.14mW
	LTE Band 5 (Channel Bandwidth: 1.4MHz)	77.45mW
	LTE Band 5 (Channel Bandwidth: 3MHz)	77.45mW
	LTE Band 5 (Channel Bandwidth: 5MHz)	77.98mW



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MAX. ERP POWER	LTE Band 5 (Channel Bandwidth: 10MHz)	78.52mW
	LTE Band 26 (Channel Bandwidth: 1.4MHz)	80.54mW
	LTE Band 26 (Channel Bandwidth: 3MHz)	80.17mW
	LTE Band 26 (Channel Bandwidth: 5MHz)	80.17mW
	LTE Band 26 (Channel Bandwidth: 10MHz)	81.28mW
	LTE Band 26 (Channel Bandwidth: 15MHz)	81.66mW
EMISSION DESIGNATOR:OGGN	GSM	246KGXW
	EDGE	254KG7W
	WCDMA	4M15F9W
	LTE Band 26 (Channel Bandwidth: 1.4MHz)	QPSK: 1M10G7D 16QAM: 1M10W7D
	LTE Band 26 (Channel Bandwidth: 3MHz)	QPSK: 2M69G7D 16QAM: 2M70W7D
	LTE Band 26 (Channel Bandwidth: 5MHz)	QPSK: 4M51G7D 16QAM: 4M50W7D
	LTE Band 26 (Channel Bandwidth: 10MHz)	QPSK: 9M00G7D 16QAM: 8M99W7D
	LTE Band 26 (Channel Bandwidth: 15MHz)	QPSK: 13M5G7D 16QAM: 13M5W7D
ANTENNA TYPE	ANT 4(UP): PIFA Antenna with -5.2dBi gain for GSM850/WCDMA V/LTE B5/ LTE B26 ANT 1(DOWN): PIFA Antenna with -3.4dBi gain for GSM850/WCDMA V/LTE B5/ LTE B26	
HW VERSION	13510O17P	
SW VERSION	Xiaomi HyperOS 1.0	
IMEI	861781070039865	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	USB cable1: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable2: non-shielded cable, with w/o ferrite core, 1.0 meter	
EXTREME TEMPERATURE	0-40 °C	
EXTREME VOLTAGE	3.7V - 4.3V	



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NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. Physically, the EUT provides two completed transmitter and two receiver.

MODULATION MODE	TX FUNCTION
GSM/GPRS/EDGE	SISO2TX
WCDMA	SISO2TX
LTE	SISO2TX

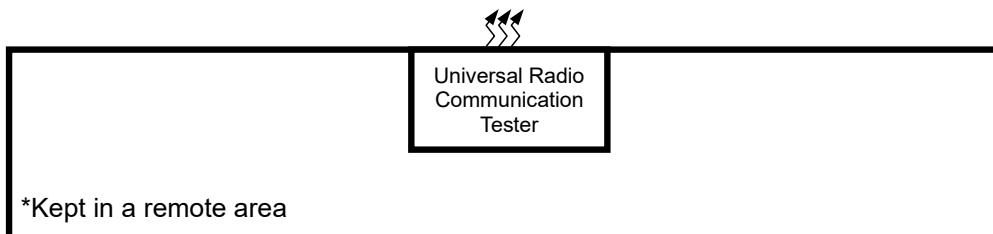
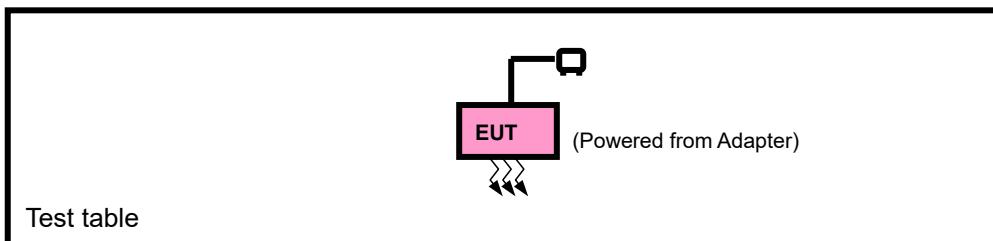
3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in the test report.
4. Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.



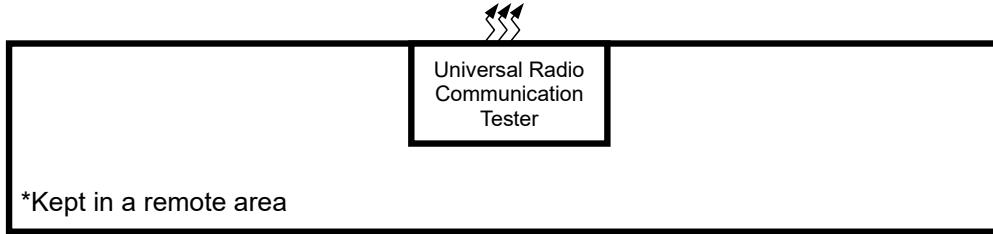
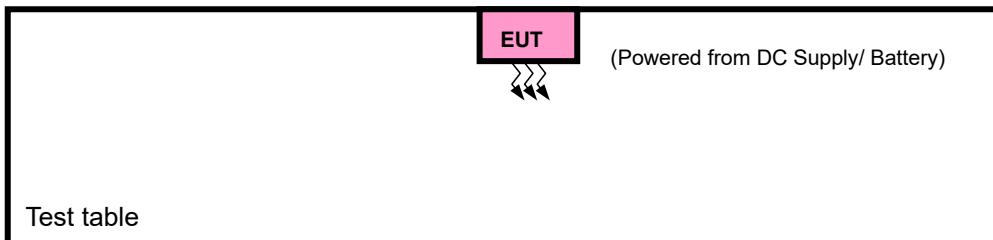
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2.2 CONFIGURATION OF SYSTEM UNDER TEST FOR RADIATION EMISSION



FOR CONDUCTED TEST





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2.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	DC source	Kikusui/JP	PMX18-5A	0000001	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable 1.0m

2.4 TEST ITEM AND TEST CONFIGURATION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case in ERP and radiated emission was found when positioned on X-plane for GSM /EDGE/WCDMA/LTE. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + Adapter with GSM or WCDMA or LTE link
B	EUT + DC source with GSM or WCDMA or LTE link



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GSM MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A	ERP	128 to 251	128, 189, 251	GSM, EDGE
B	FREQUENCY STABILITY	128 to 251	128, 189, 251	GSM, EDGE
A	OCCUPIED BANDWIDTH	128 to 251	128, 189, 251	GSM, EDGE
A	BAND EDGE	128 to 251	128, 251	GSM, EDGE
A	CONDUCED EMISSION	128 to 251	128, 189, 251	GSM, EDGE
A	RADIATED EMISSION	128 to 251	128, 189, 251	GSM, EDGE
A	PEAK TO AVERAGE RATIO	128 to 251	128, 189, 251	GSM, EDGE

WCDMA MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A	ERP	4132 to 4233	4132, 4182, 4233	WCDMA
B	FREQUENCY STABILITY	4132 to 4233	4132, 4182, 4233	WCDMA
A	OCCUPIED BANDWIDTH	4132 to 4233	4132, 4182, 4233	WCDMA
A	BAND EDGE	4132 to 4233	4132, 4233	WCDMA
A	CONDUCED EMISSION	4132 to 4233	4132, 4182, 4233	WCDMA
A	RADIATED EMISSION	4132 to 4233	4132, 4182, 4233	WCDMA
A	PEAK TO AVERAGE RATIO	4132 to 4233	4132, 4182, 4233	WCDMA



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LTE BAND 5 MODE

EUT CONFIGURE MODE	TEST ITEM	Available Channel	Tested Channel	Channel bandwidth	modulation	mode
A	ERP	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset

Note: 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. LTE Band 5 are covered by LTE Band 26, Because it is a subset of LTE Band 26 with the same output power and supported bandwidths, So the test data please refer to LTE Band 26

LTE BAND 26 MODE

EUT CONFIGURE MODE	TEST ITEM	Available Channel	Tested Channel	Channel bandwidth	modulation	mode
A	ERP	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		26805 to 27025	26805, 26915, 27025	3MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		26815 to 27015	26815, 26915, 27015	5MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		26840 to 26990	26840, 26915, 26990	10MHz	QPSK,16QAM,64QAM	1 RB / 0 RB Offset
		26865 to 26965	26865, 26915, 26965	15MHz	QPSK,16QAM	1 RB / 0 RB Offset
B	FREQUENCY STABILITY	26865 to 26965	26865, 26915, 26965	10MHz	QPSK,16QAM	75 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK,16QAM	6 RB / 0 RB Offset
		26805 to 27025	26805, 26915, 27025	3MHz	QPSK,16QAM	15 RB / 0 RB Offset
		26815 to 27015	26815, 26915, 27015	5MHz	QPSK,16QAM	25 RB / 0 RB Offset
		26840 to 26990	26840, 26915, 26990	10MHz	QPSK,16QAM	50 RB / 0 RB Offset
		26865 to 26965	26865, 26915, 26965	15MHz	QPSK,16QAM	75 RB / 0 RB Offset
A	PEAK TO AVERAGE RATIO	26865 to 26965	26865, 26915, 26965	15MHz	QPSK,16QAM	1 RB / 0 RB Offset 75 RB / 0 RB Offset
A	BAND EDGE	26797 to 27033	26797	1.4 MHz	QPSK,16QAM,	1 RB / 0 RB Offset 6 RB / 0 RB Offset
		26797 to 27033	27033	1.4 MHz	QPSK,16QAM	1 RB / 5 RB Offset 6 RB / 0 RB Offset
		26805 to 27025	26805	3 MHz	QPSK,16QAM	1 RB / 0 RB Offset



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						15 RB / 0 RB Offset
		26805 to 27025	27025	3 MHz	QPSK,16QAM	1 RB / 14 RB Offset
						15 RB / 0 RB Offset
		26815 to 27015	26815	5MHz	QPSK,16QAM	1 RB / 0 RB Offset
						25 RB / 0 RB Offset
		26815 to 27015	27015	5MHz	QPSK,16QAM	1 RB / 24 RB Offset
						25 RB / 0 RB Offset
		26840 to 26990	26840	10MHz	QPSK,16QAM	1 RB / 0 RB Offset
						50 RB / 0 RB Offset
A	CONDUCTED EMISSION	26840 to 26990	26990	10MHz	QPSK,16QAM	1 RB / 49 RB Offset
						50 RB / 0 RB Offset
		26865 to 26965	26865	15MHz	QPSK,16QAM	1 RB / 0 RB Offset
						75 RB / 0 RB Offset
		26865 to 26965	26965	15MHz	QPSK,16QAM	1 RB / 74 RB Offset
						75 RB / 0 RB Offset
A	RADIATED EMISSION	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK,16QAM	1 RB / 0 RB Offset
		26805 to 27025	26805, 26915, 27025	3MHz	QPSK,16QAM	1 RB / 0 RB Offset
		26815 to 27015	26815, 26915, 27015	5MHz	QPSK,16QAM	1 RB / 0 RB Offset
		26840 to 26990	26840, 26915, 26990	10MHz	QPSK,16QAM	1 RB / 0 RB Offset
		26865 to 26965	26865, 26915, 26965	15MHz	QPSK,16QAM	1 RB / 0 RB Offset

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.



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TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	25deg. C, 70%RH	DC 5/5~11V By Adapter	Jace Hu
FREQUENCY STABILITY	25deg. C, 70%RH	DC 3.7/3.91/4.3 By DC Source	James Fu
OCCUPIED BANDWIDTH	25deg. C, 70%RH	DC 5/5~11V By Adapter	James Fu
BAND EDGE	25deg. C, 70%RH	DC 5/5~11V By Adapter	James Fu
CONDUCDETED EMISSION	25deg. C, 70%RH	DC 5/5~11V By Adapter	James Fu
RADIATED EMISSION	25deg. C, 70%RH	DC 5/5~11V By Adapter	Jace Hu
PEAK TO AVERAGE RATIO	25deg. C, 70%RH	DC 5/5~11V By Adapter	James Fu

2.5 EUT OPERATING CONDITIONS

The EUT makes a call to the communication simulator. The communication simulator station system controlled an EUT to export maximum output power under transmission mode and specific channel frequency.



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2.6 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is an RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 22

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-D

ANSI/TIA/EIA-603-E

ANSI C63.26-2015

NOTE: All test items have been performed and recorded as per the above standards.



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3 TEST TYPES AND RESULTS

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Mobile / Portable station is limited to 7 watts E.R.P.

3.1.2 TEST PROCEDURES

EIRP / ERP MEASUREMENT:

Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_T - L_c$$

Where:

ERP or EIRP = effective radiated power or equivalent isotopically radiated power, respectively
(expressed in the same units as P_{Meas} , typically dBW or dBm);

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

L_c = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

CONDUCTED POWER MEASUREMENT:

The EUT was set up for the maximum power with WCDMA link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.



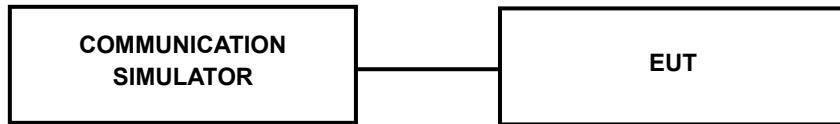
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VERITAS

Test Report No.: W7L-240618W002RF05

3.1.3 TEST SETUP

EIRP / ERP Measurement:

CONDUCTED POWER MEASUREMENT:



3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

Ant 4(UP):

Band	GSM850		
Channel	128	189	251
Frequency (MHz)	824.2	836.4	848.8
GSM	31.93	32.05	31.96
GPRS (GMSK, 1Tx-slot)	31.90	32.08	31.80
GPRS (GMSK, 2Tx-slot)	29.66	29.88	29.61
GPRS (GMSK, 3Tx-slot)	27.86	28.02	27.96
GPRS (GMSK, 4Tx-slot)	25.89	26.04	25.97
EDGE (8PSK, 1Tx-slot)	26.14	26.09	26.16
EDGE (8PSK, 2Tx-slot)	23.86	23.83	23.77
EDGE (8PSK, 3Tx-slot)	22.31	22.14	22.28
EDGE (8PSK, 4Tx-slot)	20.82	20.58	20.76

Band	WCDMA V		
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2K	23.21	23.14	23.32
HSDPA Subtest-1	22.38	22.36	22.02
HSDPA Subtest-2	22.18	22.12	22.11
HSDPA Subtest-3	21.68	21.67	21.55
HSDPA Subtest-4	21.77	21.62	21.59
DC-HSDPA Subtest-1	22.32	22.26	22.09
DC-HSDPA Subtest-2	22.27	22.09	22.11
DC-HSDPA Subtest-3	21.73	21.70	21.62
DC-HSDPA Subtest-4	21.84	21.61	21.60
HSUPA Subtest-1	20.80	20.59	20.47
HSUPA Subtest-2	20.68	20.51	20.34
HSUPA Subtest-3	21.20	21.14	21.09
HSUPA Subtest-4	19.68	19.73	19.63
HSUPA Subtest-5	21.33	21.25	21.27



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VERITAS

Test Report No.: W7L-240618W002RF05

LTE Band 5

Band/BW	Modulation	RB Size	RB Offset	Low CH 20407	Mid CH 20525	High CH 20643
				Frequency 824.7 MHz	Frequency 836.5 MHz	Frequency 848.3 MHz
5/ 1.4	QPSK	1	0	23.67	23.76	23.69
		1	2	23.63	23.73	23.70
		1	5	23.63	23.65	23.73
		3	0	23.58	23.54	23.77
		3	1	23.44	23.51	23.54
		3	3	23.53	23.45	23.42
		6	0	22.80	22.66	22.81
	16QAM	1	0	22.89	22.81	22.78
		1	2	22.87	22.92	22.86
		1	5	22.92	22.96	22.90
		3	0	22.58	22.42	22.65
		3	1	22.48	22.56	22.50
		3	3	22.61	22.47	22.42
		6	0	21.71	21.68	21.77
	64QAM	1	0	21.91	21.84	21.86
		1	2	21.80	21.93	21.84
		1	5	21.75	21.83	21.68
		3	0	21.42	21.47	21.62
		3	1	21.57	21.55	21.49
		3	3	21.49	21.46	21.41
		6	0	20.69	20.61	20.71



BUREAU
VERITAS

Test Report No.: W7L-240618W002RF05

Band/BW	Modulation	RB Size	RB Offset	Low CH 20415	Mid CH 20525	High CH 20635
				Frequency 825.5 MHz	Frequency 836.5 MHz	Frequency 847.5 MHz
5/ 3	QPSK	1	0	23.63	23.79	23.78
		1	7	23.70	23.69	23.71
		1	14	23.66	23.59	23.75
		8	0	22.78	22.69	22.87
		8	3	22.70	22.75	22.77
		8	7	22.72	22.67	22.62
		15	0	22.70	22.70	22.72
	16QAM	1	0	22.95	22.82	22.85
		1	7	22.90	23.03	22.74
		1	14	22.92	22.90	22.90
		8	0	21.80	21.72	21.85
		8	3	21.74	21.78	21.80
		8	7	21.74	21.72	21.70
		15	0	21.73	21.59	21.85
	64QAM	1	0	21.93	21.92	21.92
		1	7	21.85	21.95	21.94
		1	14	21.81	21.91	21.68
		8	0	20.70	20.59	20.81
		8	3	20.74	20.66	20.82
		8	7	20.70	20.60	20.69
		15	0	20.77	20.66	20.81



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VERITAS

Test Report No.: W7L-240618W002RF05

Band/BW	Modulation	RB Size	RB Offset	Low CH 20425	Mid CH 20525	High CH 20625
				Frequency 826.5 MHz	Frequency 836.5 MHz	Frequency 846.5 MHz
5/ 5	QPSK	1	0	23.73	23.75	23.73
		1	12	23.67	23.77	23.76
		1	24	23.67	23.64	23.67
		12	0	22.78	22.71	22.88
		12	6	22.77	22.74	22.77
		12	13	22.70	22.59	22.63
		25	0	22.72	22.63	22.83
	16QAM	1	0	22.90	22.85	22.85
		1	12	22.99	22.99	22.79
		1	24	22.90	22.90	22.93
		12	0	21.73	21.68	21.85
		12	6	21.66	21.72	21.68
		12	13	21.74	21.60	21.64
		25	0	21.82	21.60	21.75
	64QAM	1	0	21.89	21.91	21.92
		1	12	21.75	22.01	21.96
		1	24	21.86	21.88	21.77
		12	0	20.74	20.64	20.81
		12	6	20.65	20.64	20.80
		12	13	20.69	20.55	20.74
		25	0	20.69	20.60	20.69



BUREAU
VERITAS

Test Report No.: W7L-240618W002RF05

Band/BW	Modulation	RB Size	RB Offset	Low CH 20450	Mid CH 20525	High CH 20600
				Frequency 829 MHz	Frequency 836.5 MHz	Frequency 844 MHz
5/ 10	QPSK	1	0	23.76	23.82	23.82
		1	24	23.78	23.83	23.84
		1	49	23.75	23.69	23.79
		25	0	22.85	22.79	22.98
		25	12	22.79	22.77	22.81
		25	25	22.83	22.72	22.76
		50	0	22.84	22.73	22.85
	16QAM	1	0	23.01	22.96	22.87
		1	24	23.02	23.07	22.88
		1	49	22.93	23.04	22.99
		25	0	21.83	21.76	21.97
		25	12	21.77	21.84	21.81
		25	25	21.89	21.74	21.75
		50	0	21.86	21.73	21.88
	64QAM	1	0	21.95	21.96	21.97
		1	24	21.86	22.02	21.99
		1	49	21.88	21.97	21.82
		25	0	20.75	20.69	20.91
		25	12	20.78	20.78	20.83
		25	25	20.83	20.68	20.76
		50	0	20.79	20.71	20.83



BUREAU
VERITAS

Test Report No.: W7L-240618W002RF05

LTE BAND 26

Band/BW	Modulation	RB Size	RB Offset	Low CH 26797	Mid CH 26915	High CH 27033
				Frequency 824.7 MHz	Frequency 836.5 MHz	Frequency 848.3 MHz
26/ 1.4	QPSK	1	0	23.89	23.92	23.79
		1	2	23.72	23.84	23.73
		1	5	23.83	23.78	23.81
		3	0	23.61	23.61	23.67
		3	1	23.55	23.55	23.53
		3	3	23.58	23.69	23.54
		6	0	22.60	22.92	22.87
	16QAM	1	0	23.06	22.99	22.90
		1	2	23.21	23.18	23.05
		1	5	23.07	22.94	22.90
		3	0	22.96	22.87	22.88
		3	1	22.86	22.76	22.72
		3	3	22.77	22.95	22.87
		6	0	21.70	21.70	21.83
	64QAM	1	0	22.08	21.91	21.92
		1	2	22.10	22.00	21.95
		1	5	21.84	21.67	21.78
		3	0	21.86	21.78	21.97
		3	1	21.82	21.79	21.81
		3	3	21.93	21.92	21.81
		6	0	20.61	20.83	20.99



BUREAU
VERITAS

Test Report No.: W7L-240618W002RF05

Band/BW	Modulation	RB Size	RB Offset	Low CH 26805	Mid CH 26915	High CH 27025
				Frequency 825.5 MHz	Frequency 836.5 MHz	Frequency 847.5 MHz
26/ 3	QPSK	1	0	23.90	23.91	23.82
		1	7	23.72	23.85	23.72
		1	14	23.73	23.76	23.76
		8	0	22.88	22.87	22.78
		8	3	22.71	22.73	22.83
		8	7	22.78	22.80	22.81
		15	0	22.64	22.78	22.85
	16QAM	1	0	23.15	22.96	22.99
		1	7	23.20	23.24	23.12
		1	14	23.12	22.95	22.96
		8	0	21.88	21.92	21.94
		8	3	21.79	21.76	21.78
		8	7	21.72	21.90	21.75
		15	0	21.71	21.74	21.90
	64QAM	1	0	22.07	22.01	21.89
		1	7	22.06	21.96	22.04
		1	14	21.87	21.69	21.75
		8	0	20.78	20.73	20.97
		8	3	20.89	20.86	20.79
		8	7	20.81	20.97	20.84
		15	0	20.64	20.88	21.00



BUREAU
VERITAS

Test Report No.: W7L-240618W002RF05

Band/BW	Modulation	RB Size	RB Offset	Low CH 26815	Mid CH 26915	High CH 27015
				Frequency 826.5 MHz	Frequency 836.5 MHz	Frequency 846.5 MHz
26/ 5	QPSK	1	0	23.89	23.97	23.82
		1	12	23.75	23.81	23.69
		1	24	23.85	23.81	23.76
		12	0	22.85	22.86	22.77
		12	6	22.69	22.74	22.78
		12	13	22.76	22.82	22.70
		25	0	22.60	22.88	22.76
	16QAM	1	0	23.12	23.05	22.97
		1	12	23.15	23.12	23.03
		1	24	23.07	23.04	22.90
		12	0	21.81	21.90	21.93
		12	6	21.77	21.81	21.68
		12	13	21.83	21.92	21.82
		25	0	21.65	21.67	21.82
	64QAM	1	0	22.06	21.95	21.96
		1	12	22.10	21.90	21.92
		1	24	21.85	21.70	21.75
		12	0	20.82	20.78	20.99
		12	6	20.85	20.87	20.77
		12	13	20.86	20.95	20.75
		25	0	20.75	20.83	20.96



BUREAU
VERITAS

Test Report No.: W7L-240618W002RF05

Band/BW	Modulation	RB Size	RB Offset	Low CH 26840	Mid CH 26915	High CH 26990
				Frequency 829 MHz	Frequency 836.5 MHz	Frequency 844 MHz
26/10	QPSK	1	0	23.85	23.92	23.76
		1	24	23.82	23.82	23.70
		1	49	23.74	23.75	23.76
		25	0	22.81	22.86	22.88
		25	12	22.70	22.77	22.84
		25	25	22.73	22.89	22.76
		50	0	22.65	22.92	22.86
	16QAM	1	0	23.09	22.96	22.98
		1	24	23.19	23.23	23.15
		1	49	22.99	23.00	22.97
		25	0	21.92	21.94	21.94
		25	12	21.74	21.80	21.74
		25	25	21.76	21.81	21.81
		50	0	21.73	21.81	21.78
	64QAM	1	0	22.08	21.96	21.86
		1	24	22.03	21.87	22.04
		1	49	21.82	21.65	21.81
		25	0	20.83	20.81	20.90
		25	12	20.86	20.78	20.73
		25	25	20.76	20.98	20.76
		50	0	20.62	20.80	20.93



BUREAU
VERITAS

Test Report No.: W7L-240618W002RF05

Band/BW	Modulation	RB Size	RB Offset	Low CH 26865	Mid CH 26915	High CH 26965
				Frequency 831.5 MHz	Frequency 836.5 MHz	Frequency 841.5 MHz
26/ 15	QPSK	1	0	23.96	24.01	23.87
		1	37	23.85	23.88	23.82
		1	74	23.86	23.89	23.85
		36	0	22.93	22.96	22.89
		36	19	22.79	22.88	22.85
		36	39	22.83	22.94	22.82
		75	0	22.74	22.93	22.90
	16QAM	1	0	23.17	23.11	23.04
		1	37	23.22	23.25	23.18
		1	74	23.14	23.06	23.03
		36	0	21.95	21.95	21.96
		36	19	21.87	21.86	21.81
		36	39	21.87	21.94	21.86
		75	0	21.79	21.82	21.91
	64QAM	1	0	22.13	22.02	21.97
		1	37	22.12	22.01	22.06
		1	74	21.93	21.80	21.86
		36	0	20.88	20.88	21.00
		36	19	20.91	20.89	20.84
		36	39	20.90	21.01	20.86
		75	0	20.76	20.94	21.01



BUREAU
VERITAS

Test Report No.: W7L-240618W002RF05

Ant 1(DOWN):

Band	GSM850		
Channel	128	189	251
Frequency (MHz)	824.2	836.4	848.8
GSM	32.84	32.88	32.70
GPRS (GMSK, 1Tx-slot)	32.81	32.86	32.63
GPRS (GMSK, 2Tx-slot)	30.61	30.65	30.43
GPRS (GMSK, 3Tx-slot)	28.78	28.85	28.68
GPRS (GMSK, 4Tx-slot)	26.81	26.88	26.73
EDGE (8PSK, 1Tx-slot)	26.28	26.33	26.32
EDGE (8PSK, 2Tx-slot)	23.94	24.00	23.92
EDGE (8PSK, 3Tx-slot)	22.17	22.25	22.15
EDGE (8PSK, 4Tx-slot)	20.72	20.81	20.76

Band	WCDMA V		
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2K	23.75	23.70	23.82
HSDPA Subtest-1	22.12	22.43	22.33
HSDPA Subtest-2	22.35	22.42	22.15
HSDPA Subtest-3	21.75	21.77	21.93
HSDPA Subtest-4	21.70	21.73	22.01
DC-HSDPA Subtest-1	22.39	22.07	22.35
DC-HSDPA Subtest-2	22.17	22.31	22.37
DC-HSDPA Subtest-3	21.61	21.82	21.78
DC-HSDPA Subtest-4	21.76	21.75	21.87
HSUPA Subtest-1	20.70	20.62	20.75
HSUPA Subtest-2	20.75	20.61	20.84
HSUPA Subtest-3	21.12	21.13	21.37
HSUPA Subtest-4	19.75	19.96	20.08
HSUPA Subtest-5	21.28	21.37	21.36



BUREAU
VERITAS

Test Report No.: W7L-240618W002RF05

LTE Band 5

Band/BW	Modulation	RB Size	RB Offset	Low CH 20407	Mid CH 20525	High CH 20643
				Frequency 824.7 MHz	Frequency 836.5 MHz	Frequency 848.3 MHz
5/ 1.4	QPSK	1	0	24.35	24.43	24.40
		1	2	24.37	24.44	24.34
		1	5	24.37	24.36	24.31
		3	0	24.10	24.14	24.13
		3	1	24.17	24.24	24.22
		3	3	24.07	24.10	24.15
		6	0	23.32	23.45	23.44
	16QAM	1	0	23.55	23.71	23.50
		1	2	23.52	23.45	23.63
		1	5	23.53	23.56	23.42
		3	0	23.19	23.16	23.27
		3	1	23.06	23.12	23.12
		3	3	23.22	23.20	23.17
		6	0	22.34	22.34	22.44
	64QAM	1	0	22.42	22.56	22.55
		1	2	22.37	22.43	22.43
		1	5	22.47	22.40	22.43
		3	0	22.09	22.15	22.26
		3	1	22.14	22.17	22.12
		3	3	22.25	22.14	22.10
		6	0	21.25	21.42	21.32



BUREAU
VERITAS

Test Report No.: W7L-240618W002RF05

Band/BW	Modulation	RB Size	RB Offset	Low CH 20415	Mid CH 20525	High CH 20635
				Frequency 825.5 MHz	Frequency 836.5 MHz	Frequency 847.5 MHz
5/ 3	QPSK	1	0	24.24	24.35	24.27
		1	7	24.35	24.38	24.42
		1	14	24.33	24.44	24.22
		8	0	23.39	23.40	23.34
		8	3	23.37	23.36	23.35
		8	7	23.24	23.25	23.31
		15	0	23.37	23.37	23.33
	16QAM	1	0	23.57	23.63	23.52
		1	7	23.38	23.46	23.74
		1	14	23.51	23.45	23.42
		8	0	22.27	22.32	22.48
		8	3	22.36	22.41	22.35
		8	7	22.45	22.36	22.39
		15	0	22.40	22.34	22.36
	64QAM	1	0	22.36	22.62	22.51
		1	7	22.36	22.41	22.42
		1	14	22.46	22.48	22.48
		8	0	21.33	21.34	21.40
		8	3	21.41	21.38	21.37
		8	7	21.44	21.40	21.32
		15	0	21.25	21.42	21.35



BUREAU
VERITAS

Test Report No.: W7L-240618W002RF05

Band/BW	Modulation	RB Size	RB Offset	Low CH 20425	Mid CH 20525	High CH 20625
				Frequency 826.5 MHz	Frequency 836.5 MHz	Frequency 846.5 MHz
5/ 5	QPSK	1	0	24.30	24.43	24.27
		1	12	24.41	24.47	24.41
		1	24	24.28	24.41	24.21
		12	0	23.33	23.41	23.30
		12	6	23.43	23.44	23.38
		12	13	23.20	23.25	23.38
		25	0	23.30	23.46	23.34
	16QAM	1	0	23.56	23.58	23.50
		1	12	23.50	23.46	23.62
		1	24	23.56	23.48	23.51
		12	0	22.37	22.33	22.39
		12	6	22.33	22.40	22.40
		12	13	22.36	22.39	22.39
		25	0	22.47	22.36	22.40
	64QAM	1	0	22.44	22.63	22.51
		1	12	22.34	22.47	22.38
		1	24	22.41	22.47	22.49
		12	0	21.35	21.32	21.42
		12	6	21.35	21.34	21.35
		12	13	21.35	21.31	21.26
		25	0	21.36	21.44	21.37



BUREAU
VERITAS

Test Report No.: W7L-240618W002RF05

Band/BW	Modulation	RB Size	RB Offset	Low CH 20450	Mid CH 20525	High CH 20600
				Frequency 829 MHz	Frequency 836.5 MHz	Frequency 844 MHz
5/ 10	QPSK	1	0	24.39	24.49	24.42
		1	24	24.44	24.50	24.49
		1	49	24.42	24.45	24.35
		25	0	23.42	23.44	23.37
		25	12	23.49	23.51	23.47
		25	25	23.35	23.39	23.39
		50	0	23.43	23.48	23.45
	16QAM	1	0	23.66	23.73	23.64
		1	24	23.53	23.58	23.75
		1	49	23.57	23.59	23.57
		25	0	22.41	22.45	22.53
		25	12	22.39	22.42	22.45
		25	25	22.46	22.46	22.44
		50	0	22.48	22.39	22.49
	64QAM	1	0	22.48	22.66	22.59
		1	24	22.48	22.56	22.51
		1	49	22.56	22.55	22.53
		25	0	21.38	21.42	21.47
		25	12	21.44	21.44	21.39
		25	25	21.48	21.42	21.37
		50	0	21.39	21.45	21.39



BUREAU
VERITAS

Test Report No.: W7L-240618W002RF05

LTE BAND 26

Band/BW	Modulation	RB Size	RB Offset	Low CH 26797	Mid CH 26915	High CH 27033
				Frequency 824.7 MHz	Frequency 836.5 MHz	Frequency 848.3 MHz
26/ 1.4	QPSK	1	0	24.48	24.52	24.53
		1	2	24.60	24.61	24.55
		1	5	24.41	24.47	24.50
		3	0	24.19	24.37	24.34
		3	1	24.24	24.31	24.29
		3	3	24.19	24.34	24.19
		6	0	23.49	23.51	23.45
	16QAM	1	0	23.81	23.64	23.71
		1	2	23.81	23.68	23.76
		1	5	23.84	23.73	23.64
		3	0	23.23	23.37	23.35
		3	1	23.39	23.36	23.33
		3	3	23.35	23.22	23.25
		6	0	22.55	22.48	22.49
	64QAM	1	0	22.55	22.64	22.69
		1	2	22.71	22.67	22.62
		1	5	22.62	22.65	22.60
		3	0	22.33	22.29	22.27
		3	1	22.34	22.36	22.36
		3	3	22.33	22.27	22.24
		6	0	21.44	21.45	21.52



BUREAU
VERITAS

Test Report No.: W7L-240618W002RF05

Band/BW	Modulation	RB Size	RB Offset	Low CH 26805	Mid CH 26915	High CH 27025
				Frequency 825.5 MHz	Frequency 836.5 MHz	Frequency 847.5 MHz
26/ 3	QPSK	1	0	24.55	24.42	24.42
		1	7	24.59	24.59	24.54
		1	14	24.39	24.56	24.43
		8	0	23.39	23.51	23.57
		8	3	23.45	23.42	23.50
		8	7	23.47	23.43	23.49
		15	0	23.53	23.50	23.50
	16QAM	1	0	23.74	23.71	23.68
		1	7	23.81	23.71	23.70
		1	14	23.76	23.72	23.60
		8	0	22.40	22.44	22.46
		8	3	22.51	22.51	22.52
		8	7	22.52	22.47	22.46
		15	0	22.49	22.52	22.45
	64QAM	1	0	22.57	22.50	22.62
		1	7	22.72	22.68	22.72
		1	14	22.60	22.56	22.53
		8	0	21.48	21.42	21.50
		8	3	21.59	21.47	21.47
		8	7	21.53	21.51	21.39
		15	0	21.43	21.48	21.52



BUREAU
VERITAS

Test Report No.: W7L-240618W002RF05

Band/BW	Modulation	RB Size	RB Offset	Low CH 26815	Mid CH 26915	High CH 27015
				Frequency 826.5 MHz	Frequency 836.5 MHz	Frequency 846.5 MHz
26/ 5	QPSK	1	0	24.54	24.54	24.53
		1	12	24.54	24.54	24.59
		1	24	24.43	24.53	24.52
		12	0	23.48	23.56	23.54
		12	6	23.47	23.52	23.51
		12	13	23.47	23.53	23.42
		25	0	23.48	23.51	23.42
	16QAM	1	0	23.72	23.63	23.69
		1	12	23.78	23.69	23.69
		1	24	23.87	23.62	23.60
		12	0	22.42	22.52	22.56
		12	6	22.58	22.53	22.48
		12	13	22.51	22.37	22.41
		25	0	22.50	22.38	22.46
	64QAM	1	0	22.61	22.56	22.66
		1	12	22.73	22.65	22.73
		1	24	22.53	22.56	22.51
		12	0	21.40	21.50	21.44
		12	6	21.55	21.51	21.56
		12	13	21.55	21.41	21.47
		25	0	21.46	21.48	21.46



BUREAU
VERITAS

Test Report No.: W7L-240618W002RF05

Band/BW	Modulation	RB Size	RB Offset	Low CH 26840	Mid CH 26915	High CH 26990
				Frequency 829 MHz	Frequency 836.5 MHz	Frequency 844 MHz
26/10	QPSK	1	0	24.45	24.55	24.47
		1	24	24.55	24.65	24.52
		1	49	24.48	24.55	24.47
		25	0	23.49	23.49	23.47
		25	12	23.37	23.54	23.43
		25	25	23.48	23.57	23.46
		50	0	23.50	23.52	23.41
	16QAM	1	0	23.68	23.64	23.72
		1	24	23.76	23.67	23.77
		1	49	23.84	23.74	23.66
		25	0	22.54	22.50	22.46
		25	12	22.62	22.49	22.58
		25	25	22.59	22.41	22.41
		50	0	22.47	22.48	22.40
	64QAM	1	0	22.67	22.59	22.65
		1	24	22.72	22.62	22.73
		1	49	22.52	22.70	22.58
		25	0	21.40	21.54	21.44
		25	12	21.53	21.45	21.58
		25	25	21.57	21.38	21.36
		50	0	21.47	21.45	21.52



BUREAU
VERITAS

Test Report No.: W7L-240618W002RF05

Band/BW	Modulation	RB Size	RB Offset	Low CH 26865	Mid CH 26915	High CH 26965
				Frequency 831.5 MHz	Frequency 836.5 MHz	Frequency 841.5 MHz
26/ 15	QPSK	1	0	24.58	24.57	24.55
		1	37	24.63	24.67	24.64
		1	74	24.54	24.62	24.53
		36	0	23.52	23.61	23.59
		36	19	23.48	23.55	23.57
		36	39	23.49	23.58	23.52
		75	0	23.57	23.60	23.55
	16QAM	1	0	23.83	23.73	23.77
		1	37	23.86	23.82	23.84
		1	74	23.88	23.76	23.69
		36	0	22.55	22.57	22.60
		36	19	22.63	22.55	22.61
		36	39	22.61	22.52	22.52
		75	0	22.56	22.53	22.54
	64QAM	1	0	22.70	22.65	22.71
		1	37	22.78	22.76	22.77
		1	74	22.64	22.71	22.63
		36	0	21.53	21.55	21.59
		36	19	21.62	21.57	21.60
		36	39	21.61	21.53	21.49
		75	0	21.53	21.52	21.54



BUREAU
VERITAS

Test Report No.: W7L-240618W002RF05

ERP POWER (dBm)

Ant 4(UP):

GSM 850						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
128	824.2	31.93	-5.2	24.58	287.08	7
189	836.4	32.08	-5.2	24.73	297.17	7
251	848.8	31.96	-5.2	24.61	289.07	7

EDGE 850						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
128	824.2	26.14	-5.2	18.79	75.68	7
189	836.4	26.09	-5.2	18.74	74.82	7
251	848.8	26.16	-5.2	18.81	76.03	7

WCDMA V						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
4132	826.4	23.21	-5.2	15.86	38.55	7
4182	836.4	23.14	-5.2	15.79	37.93	7
4233	846.6	23.32	-5.2	15.97	39.54	7



BUREAU
VERITAS

Test Report No.: W7L-240618W002RF05

LTE B5 1.4M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
20407	824.7	23.67	-5.2	16.32	42.85	7
20525	836.5	23.76	-5.2	16.41	43.75	7
20643	848.3	23.77	-5.2	16.42	43.85	7

LTE B5 1.4M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
20407	824.7	22.92	-5.2	15.57	36.06	7
20525	836.5	22.96	-5.2	15.61	36.39	7
20643	848.3	22.9	-5.2	15.55	35.89	7

LTE B5 1.4M 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
20407	824.7	21.91	-5.2	14.56	28.58	7
20525	836.5	21.93	-5.2	14.58	28.71	7
20643	848.3	21.86	-5.2	14.51	28.25	7

LTE B5 3M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
20415	825.5	23.7	-5.2	16.35	43.15	7
20525	836.5	23.79	-5.2	16.44	44.06	7
20635	847.5	23.78	-5.2	16.43	43.95	7

LTE B5 3M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
20415	825.5	22.95	-5.2	15.6	36.31	7
20525	836.5	23.03	-5.2	15.68	36.98	7
20635	847.5	22.9	-5.2	15.55	35.89	7



BUREAU
VERITAS

Test Report No.: W7L-240618W002RF05

LTE B5 3M 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
20415	825.5	21.93	-5.2	14.58	28.71	7
20525	836.5	21.95	-5.2	14.6	28.84	7
20635	847.5	21.94	-5.2	14.59	28.77	7

LTE B5 5M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
20425	826.5	23.73	-5.2	16.38	43.45	7
20525	836.5	23.77	-5.2	16.42	43.85	7
20625	846.5	23.76	-5.2	16.41	43.75	7

LTE B5 5M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
20425	826.5	22.99	-5.2	15.64	36.64	7
20525	836.5	22.99	-5.2	15.64	36.64	7
20625	846.5	22.93	-5.2	15.58	36.14	7

LTE B5 5M 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
20425	826.5	21.89	-5.2	14.54	28.44	7
20525	836.5	22.01	-5.2	14.66	29.24	7
20625	846.5	21.96	-5.2	14.61	28.91	7

LTE B5 10M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
20450	829	23.78	-5.2	16.43	43.95	7
20525	836.5	23.83	-5.2	16.48	44.46	7
20600	844	23.84	-5.2	16.49	44.57	7



BUREAU
VERITAS

Test Report No.: W7L-240618W002RF05

LTE B5 10M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
20450	829	23.02	-5.2	15.67	36.9	7
20525	836.5	23.07	-5.2	15.72	37.33	7
20600	844	22.99	-5.2	15.64	36.64	7

LTE B5 10M 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
20450	829	21.95	-5.2	14.6	28.84	7
20525	836.5	22.02	-5.2	14.67	29.31	7
20600	844	21.99	-5.2	14.64	29.11	7



BUREAU
VERITAS

Test Report No.: W7L-240618W002RF05

LTE B26 1.4M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
26697	814.7	23.89	-5.2	16.54	45.08	7
26865	831.5	23.92	-5.2	16.57	45.39	7
27033	848.3	23.81	-5.2	16.46	44.26	7

LTE B26 1.4M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
26697	814.7	23.21	-5.2	15.86	38.55	7
26865	831.5	23.18	-5.2	15.83	38.28	7
27033	848.3	23.05	-5.2	15.7	37.15	7

LTE B26 1.4M 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
26697	814.7	22.1	-5.2	14.75	29.85	7
26865	831.5	22	-5.2	14.65	29.17	7
27033	848.3	21.97	-5.2	14.62	28.97	7

LTE B26 3M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
26705	815.5	23.9	-5.2	16.55	45.19	7
26865	831.5	23.91	-5.2	16.56	45.29	7
27025	847.5	23.82	-5.2	16.47	44.36	7

LTE B26 3M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
26705	815.5	23.2	-5.2	15.85	38.46	7
26865	831.5	23.24	-5.2	15.89	38.82	7
27025	847.5	23.12	-5.2	15.77	37.76	7



BUREAU
VERITAS

Test Report No.: W7L-240618W002RF05

LTE B26 3M 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
26705	815.5	22.07	-5.2	14.72	29.65	7
26865	831.5	22.01	-5.2	14.66	29.24	7
27025	847.5	22.04	-5.2	14.69	29.44	7

LTE B26 5M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
26715	816.5	23.89	-5.2	16.54	45.08	7
26865	831.5	23.97	-5.2	16.62	45.92	7
27015	846.5	23.82	-5.2	16.47	44.36	7

LTE B26 5M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
26715	816.5	23.15	-5.2	15.8	38.02	7
26865	831.5	23.12	-5.2	15.77	37.76	7
27015	846.5	23.03	-5.2	15.68	36.98	7

LTE B26 5M 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
26715	816.5	22.1	-5.2	14.75	29.85	7
26865	831.5	21.95	-5.2	14.6	28.84	7
27015	846.5	21.96	-5.2	14.61	28.91	7

LTE B26 10M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
26740	819	23.85	-5.2	16.5	44.67	7
26865	831.5	23.92	-5.2	16.57	45.39	7
26990	844	23.76	-5.2	16.41	43.75	7



BUREAU
VERITAS

Test Report No.: W7L-240618W002RF05

LTE B26 10M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
26740	819	23.19	-5.2	15.84	38.37	7
26865	831.5	23.23	-5.2	15.88	38.73	7
26990	844	23.15	-5.2	15.8	38.02	7

LTE B26 10M 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
26740	819	22.08	-5.2	14.73	29.72	7
26865	831.5	21.96	-5.2	14.61	28.91	7
26990	844	22.04	-5.2	14.69	29.44	7

LTE B26 15M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
26765	821.5	23.96	-5.2	16.61	45.81	7
26865	831.5	24.01	-5.2	16.66	46.34	7
26965	841.5	23.87	-5.2	16.52	44.87	7

LTE B26 15M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
26765	821.5	23.22	-5.2	15.87	38.64	7
26865	831.5	23.25	-5.2	15.9	38.9	7
26965	841.5	23.18	-5.2	15.83	38.28	7

LTE B26 15M 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
26765	821.5	22.13	-5.2	14.78	30.06	7
26865	831.5	22.02	-5.2	14.67	29.31	7
26965	841.5	22.06	-5.2	14.71	29.58	7

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).



BUREAU
VERITAS

Test Report No.: W7L-240618W002RF05

Ant 1(DOWN):

GSM 850						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
128	824.2	32.84	-3.4	27.29	535.8	7
189	836.4	32.88	-3.4	27.33	540.75	7
251	848.8	32.7	-3.4	27.15	518.8	7

EDGE 850						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
128	824.2	26.28	-3.4	20.73	118.3	7
189	836.4	26.33	-3.4	20.78	119.67	7
251	848.8	26.32	-3.4	20.77	119.4	7

WCDMA V						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
4132	826.4	23.75	-3.4	18.2	66.07	7
4182	836.4	23.7	-3.4	18.15	65.31	7
4233	846.6	23.82	-3.4	18.27	67.14	7



BUREAU
VERITAS

Test Report No.: W7L-240618W002RF05

LTE B5 1.4M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
20407	824.7	24.37	-3.4	18.82	76.21	7
20525	836.5	24.44	-3.4	18.89	77.45	7
20643	848.3	24.4	-3.4	18.85	76.74	7

LTE B5 1.4M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
20407	824.7	23.55	-3.4	18	63.1	7
20525	836.5	23.71	-3.4	18.16	65.46	7
20643	848.3	23.63	-3.4	18.08	64.27	7

LTE B5 1.4M 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
20407	824.7	22.47	-3.4	16.92	49.2	7
20525	836.5	22.56	-3.4	17.01	50.23	7
20643	848.3	22.55	-3.4	17	50.12	7

LTE B5 3M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
20415	825.5	24.35	-3.4	18.8	75.86	7
20525	836.5	24.44	-3.4	18.89	77.45	7
20635	847.5	24.42	-3.4	18.87	77.09	7

LTE B5 3M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
20415	825.5	23.57	-3.4	18.02	63.39	7
20525	836.5	23.63	-3.4	18.08	64.27	7
20635	847.5	23.74	-3.4	18.19	65.92	7



BUREAU
VERITAS

Test Report No.: W7L-240618W002RF05

LTE B5 3M 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
20415	825.5	22.46	-3.4	16.91	49.09	7
20525	836.5	22.62	-3.4	17.07	50.93	7
20635	847.5	22.51	-3.4	16.96	49.66	7

LTE B5 5M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
20425	826.5	24.41	-3.4	18.86	76.91	7
20525	836.5	24.47	-3.4	18.92	77.98	7
20625	846.5	24.41	-3.4	18.86	76.91	7

LTE B5 5M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
20425	826.5	23.56	-3.4	18.01	63.24	7
20525	836.5	23.58	-3.4	18.03	63.53	7
20625	846.5	23.62	-3.4	18.07	64.12	7

LTE B5 5M 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
20425	826.5	22.44	-3.4	16.89	48.87	7
20525	836.5	22.63	-3.4	17.08	51.05	7
20625	846.5	22.51	-3.4	16.96	49.66	7

LTE B5 10M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
20450	829	24.44	-3.4	18.89	77.45	7
20525	836.5	24.5	-3.4	18.95	78.52	7
20600	844	24.49	-3.4	18.94	78.34	7



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LTE B5 10M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829	23.66	-3.4	18.11	64.71	7
20525	836.5	23.73	-3.4	18.18	65.77	7
20600	844	23.75	-3.4	18.2	66.07	7

LTE B5 10M 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829	22.56	-3.4	17.01	50.23	7
20525	836.5	22.66	-3.4	17.11	51.4	7
20600	844	22.59	-3.4	17.04	50.58	7



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LTE B26 1.4M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
26697	814.7	24.6	-3.4	19.05	80.35	7
26865	831.5	24.61	-3.4	19.06	80.54	7
27033	848.3	24.55	-3.4	19	79.43	7

LTE B26 1.4M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
26697	814.7	23.84	-3.4	18.29	67.45	7
26865	831.5	23.73	-3.4	18.18	65.77	7
27033	848.3	23.76	-3.4	18.21	66.22	7

LTE B26 1.4M 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
26697	814.7	22.71	-3.4	17.16	52	7
26865	831.5	22.67	-3.4	17.12	51.52	7
27033	848.3	22.69	-3.4	17.14	51.76	7

LTE B26 3M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
26705	815.5	24.59	-3.4	19.04	80.17	7
26865	831.5	24.59	-3.4	19.04	80.17	7
27025	847.5	24.54	-3.4	18.99	79.25	7

LTE B26 3M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
26705	815.5	23.81	-3.4	18.26	66.99	7
26865	831.5	23.72	-3.4	18.17	65.61	7
27025	847.5	23.7	-3.4	18.15	65.31	7



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LTE B26 3M 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
26705	815.5	22.72	-3.4	17.17	52.12	7
26865	831.5	22.68	-3.4	17.13	51.64	7
27025	847.5	22.72	-3.4	17.17	52.12	7

LTE B26 5M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
26715	816.5	24.54	-3.4	18.99	79.25	7
26865	831.5	24.54	-3.4	18.99	79.25	7
27015	846.5	24.59	-3.4	19.04	80.17	7

LTE B26 5M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
26715	816.5	23.87	-3.4	18.32	67.92	7
26865	831.5	23.69	-3.4	18.14	65.16	7
27015	846.5	23.69	-3.4	18.14	65.16	7

LTE B26 5M 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
26715	816.5	22.73	-3.4	17.18	52.24	7
26865	831.5	22.65	-3.4	17.1	51.29	7
27015	846.5	22.73	-3.4	17.18	52.24	7

LTE B26 10M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
26740	819	24.55	-3.4	19	79.43	7
26865	831.5	24.65	-3.4	19.1	81.28	7
26990	844	24.52	-3.4	18.97	78.89	7



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LTE B26 10M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
26740	819	23.84	-3.4	18.29	67.45	7
26865	831.5	23.74	-3.4	18.19	65.92	7
26990	844	23.77	-3.4	18.22	66.37	7

LTE B26 10M 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
26740	819	22.72	-3.4	17.17	52.12	7
26865	831.5	22.7	-3.4	17.15	51.88	7
26990	844	22.73	-3.4	17.18	52.24	7

LTE B26 15M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
26765	821.5	24.63	-3.4	19.08	80.91	7
26865	831.5	24.67	-3.4	19.12	81.66	7
26965	841.5	24.64	-3.4	19.09	81.1	7

LTE B26 15M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
26765	821.5	23.88	-3.4	18.33	68.08	7
26865	831.5	23.82	-3.4	18.27	67.14	7
26965	841.5	23.84	-3.4	18.29	67.45	7

LTE B26 15M 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Lmit (W)
26765	821.5	22.78	-3.4	17.23	52.84	7
26865	831.5	22.76	-3.4	17.21	52.6	7
26965	841.5	22.77	-3.4	17.22	52.72	7

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).



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3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

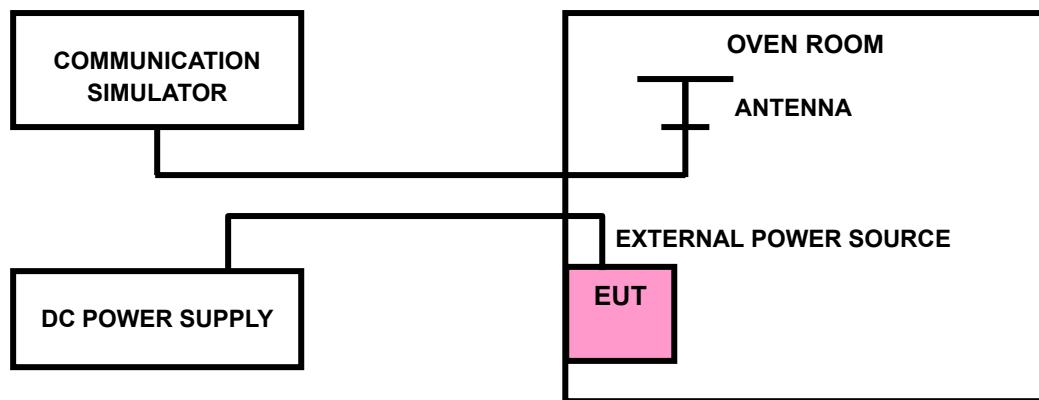
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile stations.

3.2.2 TEST PROCEDURE

- a. The device is placed in the oven room. The oven room could control the temperatures and humidity. Power warms up is at least 15 min and power applied should perform before recording frequency error.
- b. EUT is connected to the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be recording the frequency error rate.
- c. The temperature range step is 10 degrees in this test items. All temperature levels shall be holding the $\pm 0.5^{\circ}\text{C}$ during the measurement testing. Each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

3.2.3 TEST SETUP





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3.2.4 TEST RESULTS

Please Refer to Appendix Of this test report.

Note: LV = Low voltage (3.7V); NV = Normal voltage (3.91V); HV= High voltage (4.3V).

NT = Normal temperature (25°C)