



TEST REPORT

Test Report No.: 202415010745

Name of the sample: Central Control Unit
Model/Type: Lime- CCU23
Applicant: Neutron Holdings, Inc
Test Category: Entrusted Inspection

Jiangsu Electronic Information Product Quality Supervision & Inspection Institute
(Jiangsu Information Security Evaluation Center)

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TEST REPORT

General information:

Applicant	Neutron Holdings, Inc
Address	85 2nd ST, San Francisco, CA 94105 USA
Manufacturer	Neutron Holdings, Inc
Address	85 2nd ST, San Francisco, CA 94105 USA
Factory	Quectel Wireless Solutions Co., Ltd.
Address	Building 5, Shanghai Business Park Phase III (Area B), No. 1016 Tianlin Road, Minhang District, Shanghai 200233, China
Name of the sample	Central Control Unit
Trade Mark	Lime
Model/Type	Lime- CCU23
Sample Quantity	1
Production Date / Lot No.	/
Date of receipt	14/8/2024

Sample acquisition mode:☒ **Client delivering sample**☐ **Sampling**

Sampling Location

Sampling Base

Date of test**Test Result****Tested by**

Xia Wei

Checked by

Zhu Zhongrui

Approved by (Name+ Signature):

Lu Jie

Lu Jie

Date of issue:

2024.9.29

Note

General sample information:

Composition and state of sample.....: The sample was received in good condition and ready for testing.

Sample Photograph(s).....: See photo page.

Main function description.....: Data transmission.

FCC ID.....: 2APB2-LIME-CCU23

IC ID.....: 32977-LIMECCU23

Additional Information.....: as follows.

Radio Specification under Test& Product Information:

WCDMA Tx Frequency Range	Band 2: 1850 ~ 1910 MHz Band 4: 1710 ~ 1755 MHz Band 5: 824 ~ 849 MHz	
WCDMA Rx Frequency Range	Band 2: 1930 ~ 1990 MHz Band 4: 2110 ~ 2155 MHz Band 5: 869 ~ 894 MHz	
FDD Tx Frequency Range	Band 2: 1850 ~ 1910 MHz; Band 4: 1710 ~ 1755 MHz Band 5: 824 ~ 849 MHz; Band 7: 2500 ~ 2570 MHz Band 12: 699 ~ 716 MHz; Band 13: 777 ~ 787 MHz Band 25: 1850 ~ 1915 MHz; Band 26: 814 ~ 824 MHz; Band 26: 824 ~ 849 MHz	
FDD Rx Frequency Range	Band 2: 1930 ~ 1990 MHz; Band 4: 2110 ~ 2155 MHz Band 5: 869 ~ 894 MHz; Band 7: 2620 ~ 2690 MHz Band 12: 729 ~ 746 MHz; Band 13: 746 ~ 756 MHz Band 25: 1930 ~ 1995 MHz; Band 26: 859 ~ 869 MHz; Band 26: 869 ~ 894 MHz	
TDD Tx&Rx Frequency Range	Band 38: 2570 ~ 2620 MHz; Band 41: 2496 ~ 2690 MHz;	
Supported Channel Bandwidth	WCDMA:	5MHz
	LTE Band 2:	1.4MHz,3MHz,5MHz,10MHz,15MHz,20MHz
	LTE Band 4:	1.4MHz,3MHz,5MHz,10MHz,15MHz,20MHz
	LTE Band 5:	1.4MHz,3MHz,5MHz,10MHz
	LTE Band 7:	5MHz,10MHz,15MHz,20MHz
	LTE Band 12:	1.4MHz,3MHz,5MHz,10MHz
	LTE Band 13:	5MHz,10MHz
	LTE Band 25:	1.4MHz,3MHz,5MHz,10MHz,15MHz,20MHz
	LTE Band 26: 814 ~ 824 MHz	1.4MHz,3MHz,5MHz,10MHz
	LTE Band 26: 824 ~ 849 MHz	1.4MHz,3MHz,5MHz,10MHz,15MHz
	LTE Band 38:	5MHz,10MHz,15MHz,20MHz
	LTE Band 41:	5MHz,10MHz,15MHz,20MHz
Mudulation	WCDMA: up to QPSK, DL up to 16QAM; TDD/FDD:UL up to 16QAM,DL up to 16QAM	



Power Class	3
Operating Temperature	-10-50°C
Power Type	45.9-62.1Vdc, typical 54Vdc
Remark: The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.	

Description of Available Antennas:

Technology	Frequency Range (MHz)	MaxPeak Gain (dBi)
WCDMA Band 2:	1850 ~ 1910 MHz	4.2
WCDMA Band 4:	1710 ~ 1755 MHz	2.8
WCDMA Band 5:	824 ~ 849 MHz	2.8
LTE Band 2:	1850 ~ 1910 MHz	4.2
LTE Band 4:	1710 ~ 1755 MHz	2.8
LTE Band 5:	824 ~ 849 MHz	2.8
LTE Band 7:	2500 ~ 2570 MHz	2.2
LTE Band 12:	699 ~ 716 MHz	1.9
LTE Band 13:	777 ~ 787 MHz	2.5
LTE Band 25:	1850 ~ 1915 MHz	4.2
LTE Band 26: 814 ~ 824 MHz	814 ~ 824 MHz	2.8
LTE Band 26: 824 ~ 849 MHz	824 ~ 849 MHz	2.8
LTE Band 38:	2570 ~ 2620 MHz	2.4
LTE Band 41:	2496 ~ 2690 MHz	2.4

Note: All antenna information (Antenna type and Peak Gain) is provided by the manufacturer.

Test Standard:

1. ANSI C63.26:2015
2. FCC CFR 47 Part22,Part24,Part27,Part90
3. RSS-130,RSS-132,RSS-133,RSS-139,RSS-199

Test Instructions:

1.Received 1 pcs samples for testing, actual test 1 pcs.

Sample number	IMEI
20240108525001	862771041975577

2.Laboratory Accreditations.....: The test facility is recognized, certified, or accredited by the following organizations:



- CNAS (No. CNAS L0262):
- A2LA (Certificate No. 6385.01)
- FCC (Designation Number: CN1380, Registration Number: 131795)
- Industry Canada (IC) (CAB identifier: CN0172, Registration No.:12643A)

3.Testing location/ address:No.100 Jinshui Road,WuXi,Jiangsu,P.R.China

4.Additional Information.....:The test software used in this case is:

- 1) DC-TestBase RDS.FR (V6.3.1.0-20221020)
- 2) EMC32 Radiated spurious test system(V9.15.00)

Possible test case verdicts:

- test case does not apply to the test object....: N/A
- test object does meet the requirement.....: P (Pass)
- test object does not meet the requirement....: F (Fail)



STATEMENT:

1. This test report is invalid if it is without special inspection seal of the test laboratory.
2. This test report is invalid if altered or without signatures from compilation and audit or not signed by the authorized signature.
3. This test report shall not be reproduced, except in full, without the written consent of Jiangsu Electronic Information Product Quality Supervision and Inspection Institute (Jiangsu Information Security Evaluation Center).
4. The information about the samples in the report is provided by the applicant, who is responsible for its authenticity. The test results are only responsible for the tested samples.
5. The agency does not bear legal liability to the data provided by the applicant.
6. If you have any question, please bring them to our attention within 15 days from the date of report receipt. (Please lodge them to the assignment department if the task is consigned by the government.)

Summary of test results

Test Group	No.	Test Item	Technical Requirements	Sample Quantity	Unqualified number	Verdict
Conducted	1	Occupied Bandwidth	RSS-199 Section 5.6 ANSI C63.26:2015 Section 5.4	1	0	PASS
	2	Frequency Stability	FCC Part 22.355 FCC Part 24.235 FCC Part 27.54 FCC Part 90.213 RSS-130 Section 4.5 RSS-132 Section 5.3 RSS-133 Section 5.4 RSS-139 Section 5.4 RSS-199 Section 5.4 ANSI C63.26:2015 Section 5.6	1	0	PASS
	3	Equivalent Radiated Power (Band 5,26,12,13)	FCC Part 22.913(a)(5) FCC Part 27.50(b)(9),(c)(9),(c)(10) FCC Part 90.635 RSS-130 Section 4.6 RSS-132 Section 5.4 ANSI C63.26:2015 Section 5.2	1	0	PASS
	4	Equivalent Isotropic Radiated Power (Band 2,4,7,25,38,41)	FCC Part 24.232(c) FCC Part 27.50(h)(2),(d)(4) RSS-133 Section 5.5 RSS-139 Section 5.5 RSS-199 Section 5.5 ANSI C63.26:2015 Section 5.2	1	0	PASS
	5	Peak to Average Ratio	FCC Part 24.232(d) FCC Part 27.50(d)(5) RSS-130 Section 4.6 RSS-132 Section 5.4 RSS-133 Section 5.5 RSS-139 Section 5.5 RSS-199 Section 5.5 ANSI C63.26:2015 Section 5.2	1	0	PASS
	6	Band Edge	FCC Part 22.917(a) FCC Part 24.238(a) FCC Part 27.53(c),(g),(h)(m) FCC Part 90.691(a) RSS-130 Section 4.7 RSS-132 Section 5.5 RSS-133 Section 5.6 RSS-139 Section 5.6	1	0	PASS



			RSS-199 Section 5.6 ANSI C63.26:2015 Section 5.7			
	7	Spurious Emission	FCC Part 22.917(a) FCC Part 24.238(a) FCC Part 27.53(c),(g),(h)(m) FCC Part 90.691(a) RSS-130 Section 4.7 RSS-132 Section 5.5 RSS-133 Section 5.6 RSS-139 Section 5.6 RSS-199 Section 5.6 ANSI C63.26:2015 Section 5.7	1	0	PASS
Radiated	8	Spurious Emissions	FCC Part 22.917(a) FCC Part 24.238(a) FCC Part 27.53(c),(g),(h)(m) FCC Part 90.691(a) RSS-130 Section 4.7 RSS-132 Section 5.5 RSS-133 Section 5.6 RSS-139 Section 5.6 RSS-199 Section 5.6 ANSI C63.26:2015 Section 5.7	1	0	PASS
Note						



Test Result

1 Test Environment Condition

Ambient Temperature	22.5°C~27.7°C
Relative Humidity	33.1%~41.6%

2 Test Equipment List

Instrument	Manufacturer	Model No.	S/N	Software and hardware versions	Calibration Data To	Calibration Interval
Spectrum Analyzer	KEYSIGHT	N9020A	MY51287 103	A.14.62	2025.01.01	1 year
Wideband Radio Communication Tester	ROHDE&SCHW ARZ	CMW500	168135	CMW 500 V 4.0.140	2024.11.13	1 year
Wideband Radio Communication Tester	ROHDE&SCHW ARZ	CMW500	126693	CMW500 V 3.7.170	2025.04.07	1 year
RF System Control Units	DECENTEST	DT2100SCU	DC6E5E 7C47F35	V1.0.0	2025.01.03	1 year
Shielding Room	Beijing Yice Engineering Technology Co., Ltd	6.4m×4.05m ×3.36m	SR-5	/	2024.10.21	1 year
DC-TestBase Testing Software	DECENTEST	/	/	V6.3.1.0-20221020	/	/
Shielded Room	ETS.LINDGREN	PB- 3.9m×3.8m× 3.0m	PB-09	/	2025.01.04	1 year
Anechoic Chamber	ETS.LINDGREN	5 Meters	PB-08	/	2025.08.17	3 year
Composite Antennas	ETS.LINDGREN	3142D	0012238 6	/	2025.05.19	1 year
Double-ridged Waveguide Horn Antenna	ETS.LINDGREN	3117	0013520 1	/	2025.04.25	1 year
Wideband Radio Communication Tester	ANRITSU	MT8821C	6272498 365	MT8821C 40.20S#006	2025.02.27	1 year
EMC32 Radiated Spurious Testing Software	ROHDE& SCHWARZ	/	/	V9.15.00	/	1 year
Temperature & Humidity Test Chamber	ESPEC	GPS-3	0010- 005115	P3CLJL024.00STD	2025.01.06	1 year
DC Power Supply	ITECH	IT6720	8001030 3075771 0439	/	2024.12.17	1 year

Anechoic Chamber	TDK	SAC-3	PB-17	/	2025.02.05	1 year
Hybrid Antennas	Schwarzbeck	VULB 9162	682	/	2025.07.15	1 year
MXA Signal Analyzer	KEYSIGHT	N9020B	MY59050 506	A.36.22	2025.11.08	1 year
Table Top Amplifier	MITEQ	TTA1840-35- HG	2006314	/	2025.01.03	1 year
Horn antenna	SCHWARZ BECK	BBHA9170	BBHA91 70395	/	2025.01.03	1 year

3 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

Radiated Spurious Emissions

Measurement Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):

WCDMA/LTE:

9kHz~30MHz:4.1dB

30MHz~1GHz:4.1dB

1GHz~3.6GHz:3.8dB

3.6GHz~8GHz:4.5dB

8GHz~18GHz:4.6dB

18GHz~22GHz:4.7dB

22GHz~40GHz:4.8dB

Conducted Spurious Emissions

Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):

WCDMA/LTE:

9kHz~3GHz:1.2dB

3GHz~12.75GHz:2.4dB

Equivalent (Isotropic) Radiated Power/ Peak to Average Ratio

Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):

WCDMA/LTE:0.7dB

Occupied Bandwidth

Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):

WCDMA:0.1MHz,LTE:0.39MHz

Frequency Stability

Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):

WCDMA:70Hz, LTE:74Hz

4 Test Result(WCDMA)

4.1 Occupied Bandwidth

4.1.1 Test Limit

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

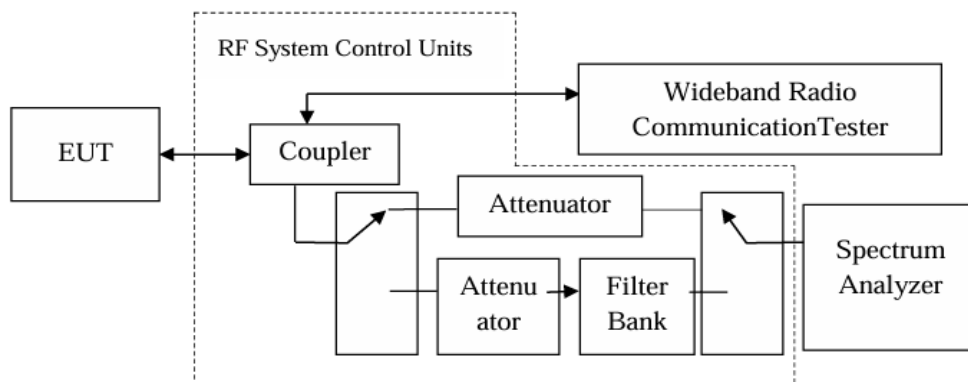
4.1.2 Test Procedure

ANSI C63.26-2015 - Section 5.4

4.1.3 Test Setting

1. Set center frequency to the nominal EUT channel center frequency
2. RBW = The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. Allow the trace to stabilize
8. Use the 99% power bandwidth and 26dB bandwidth function of the instrument and report the measured bandwidth.

4.1.4 Test Setup



4.1.5 Test Result

Mode	Channel	Frequency(MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
WCDMA Band2 Normal	9262	1852.4	4.13	4.70	PASS
	9400	1880	4.13	4.70	PASS
	9538	1907.6	4.13	4.69	PASS



Mode	Channel	Frequency(MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
WCDMA Band4 Normal	1312	1712.4	4.13	4.70	PASS
	1413	1732.6	4.13	4.70	PASS
	1513	1752.6	4.13	4.70	PASS

Mode	Channel	Frequency(MHz)	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
WCDMA Band5 Normal	4132	826.4	4.14	4.70	PASS
	4182	836.4	4.14	4.70	PASS
	4233	846.6	4.14	4.71	PASS

4.2 Frequency Stability

4.2.1 Test Limit

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

4.2.2 Test Procedure

ANSI C63.26-2015 - Section 5.6

4.2.3 Test Setting

Frequency Stability Under Temperature Variations:

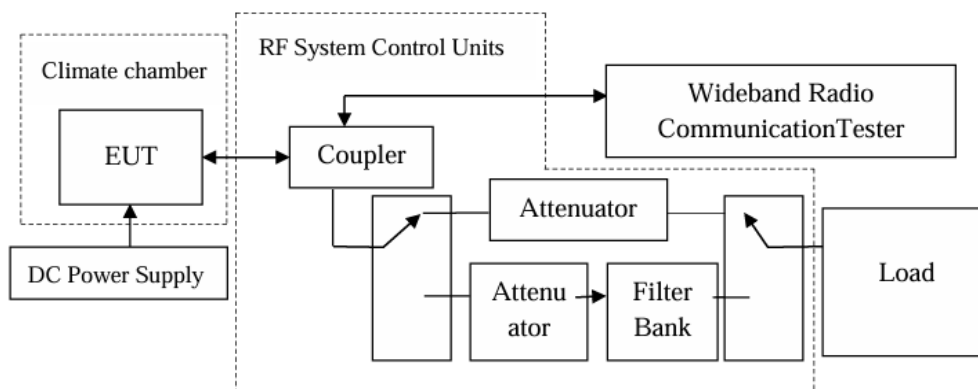
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C . Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

4.2.4 Test Setup



4.2.5 Test Result

WCDMA Band 2 Frequency Tolerance, Channel: 9400				
Power (VDC)	Temperature (°C)	Frequency Tolerance (Hz)	Frequency Tolerance (ppm)	Verdict
54	50	-4	-0.0021	PASS
	40	4	0.0021	PASS
	30	-3	-0.0016	PASS
	20	3	0.0016	PASS
	10	6	0.0032	PASS
	0	-2	-0.0011	PASS

	-10	-1	-0.0005	PASS
	-20	-5	-0.0027	PASS
	-30	0	0.0000	PASS
62.1	20	-1	-0.0005	PASS
45.9		-7	-0.0037	PASS

WCDMA Band 4 Frequency Tolerance,Channel: 1413				
Power (VDC)	Temperature (°C)	Frequency Tolerance (Hz)	Frequency Tolerance (ppm)	Verdict
54	50	21	0.0121	PASS
	40	22	0.0127	PASS
	30	21	0.0121	PASS
	20	21	0.0121	PASS
	10	19	0.0110	PASS
	0	0	0.0000	PASS
	-10	-3	-0.0017	PASS
	-20	1	0.0006	PASS
	-30	1	0.0006	PASS
62.1	20	0	0.0000	PASS
45.9		-18	-0.0104	PASS

WCDMA Band 5 Frequency Tolerance,Channel: 4182				
Power (VDC)	Temperature (°C)	Frequency Tolerance (Hz)	Frequency Tolerance (ppm)	Verdict
54	50	3	0.0036	PASS
	40	4	0.0048	PASS
	30	3	0.0036	PASS
	20	5	0.0060	PASS
	10	2	0.0024	PASS
	0	-1	-0.0012	PASS
	-10	0	0.0000	PASS
	-20	0	0.0000	PASS
	-30	0	0.0000	PASS
62.1	20	-1	-0.0012	PASS
45.9		-4	-0.0048	PASS

4.3 Equivalent Isotropic Radiated Power Measurement

4.3.1 Test Limit

Band 2:

Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

Band 4:

Fixed, mobile stations operating in the 1710-1755 MHz band and mobile in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

Band 5:

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

4.3.2 Test Procedure

ANSI C63.26-2015 - Section 5.2

4.3.3 Test Setting

1. The transmitter output port was connected to the test system.
 2. Set out at maximum power through the wideband radio communication tester.
 3. Select lowest, middle, and highest channels for each band and different modulation.
 4. Measure and record the power level from the wideband radio communication tester.
- The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation (1) as follows:

$$\text{ERP or EIRP} = \text{PMeas} + \text{GT}$$

where

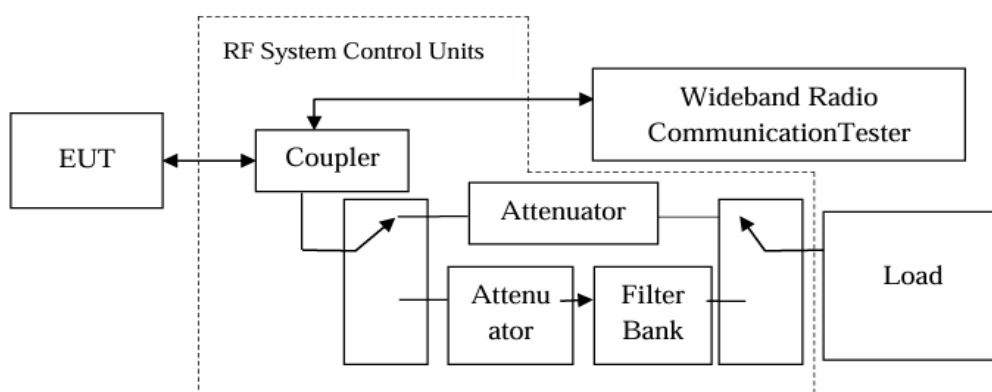
ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as PMeas, e.g., dBm or dBW)

PMeas measured transmitter output power or PSD, in dBm or dBW

GT gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

$$\text{ERP} = \text{EIRP} - 2.15$$

4.3.4 Test Setup



4.3.5 Test Result

Mod	Channel	Frequency(MHz)	Output Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
WCDMA Band2 Normal	9262	1852.4	22.7	26.9	<33.0	PASS
	9400	1880	22.8	27.0	<33.0	PASS
	9538	1907.6	22.8	27.0	<33.0	PASS
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)						

Mod	Channel	Frequency(MHz)	Output Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
WCDMA Band4 Normal	1312	1712.4	22.9	25.7	<30.0	PASS
	1413	1732.6	23.7	26.5	<30.0	PASS
	1513	1752.6	23.5	26.3	<30.0	PASS
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)						

Mod	Channel	Frequency(MHz)	Output Power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
WCDMA Band5 Normal	4132	826.4	22.8	23.5	<38.4	PASS
	4182	836.4	22.7	23.4	<38.4	PASS
	4233	846.6	22.9	23.6	<38.4	PASS
Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15						

4.4 Peak to Average Ratio

4.4.1 Test Limit

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

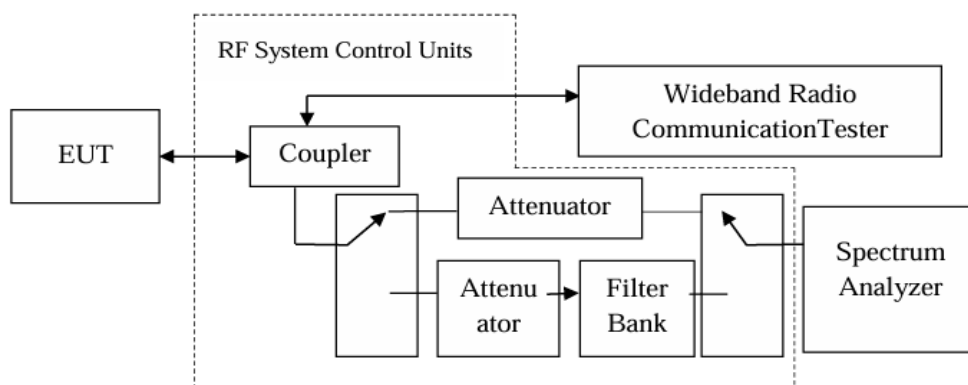
4.4.2 Test Procedure

ANSI C63.26-2015 - Section 5.2.3.4 (CCDF).

4.4.3 Test Setting

1. Set the resolution / measurement bandwidth $\geq$ signal's occupied bandwidth
2. Set the number of counts to a value that stabilizes the measured CCDF curve
3. Record the maximum PARR level associated with a probability of 0.1%

4.4.4 Test Setup



4.4.5 Test Result

Mode	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Verdict
WCDMA-Band2(RMC)	9262	1852.4	26.6	23.2	3.2	≤ 13.0	PASS
	9400	1880	26.9	23.3	3.3	≤ 13.0	PASS
	9538	1907.6	26.9	23.2	3.3	≤ 13.0	PASS

Mode	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Verdict
WCDMA-Band4(RMC)	1312	1712.4	26.8	23.3	3.2	≤ 13.0	PASS
	1413	1732.6	26.2	22.6	3.2	≤ 13.0	PASS
	1513	1752.6	25.8	22.6	3.0	≤ 13.0	PASS



Mode	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Verdict
WCDMA- Band5(RMC)	4132	826.4	26.0	22.6	3.3	≤13.0	PASS
	4182	836.4	25.6	22.5	3.2	≤13.0	PASS
	4233	846.6	25.7	22.7	3.0	≤13.0	PASS

4.5 Band Edge

4.5.1 Test Limit

22.917(a), 24.238 (a), 27.53 (h)

For operations in the 824 ~ 849 MHz, 1850 ~ 1910 MHz, and 1710 ~ 1755 MHz, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB (The emission limit equal to -13dBm.) below the transmitter power P(Watts) in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

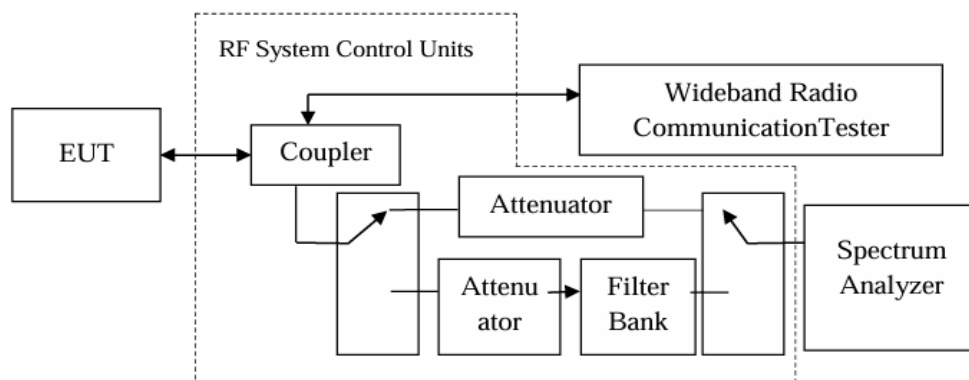
4.5.2 Test Procedure

ANSI C63.26-2015 - Section 5.7

4.5.3 Test Setting

1. Set the analyzer frequency to low or high channel
2. $RBW \geq$ The nominal RBW shall be in the range of 1% of the anticipated OBW (in the 1MHz band immediately outside and adjacent to the band edge). For improvement of the accuracy in the measurement of the average power of a noise-like emission, a RBW narrower than the specified reference bandwidth can be used (generally limited to no less than 1% of the OBW), provided that a subsequent integration is performed over the full required measurement bandwidth. This integration should be performed using the spectrum analyzer's band power functions.
3. $VBW \geq 3 \times RBW$
4. Sweep time = auto
5. Detector = power averaging (rms)
6. Set sweep trigger to "free run."
7. User gate triggered such that the analyzer only sweeps when the device is transmitting at full power
8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple.
To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time.

4.5.4 Test Setup



4.5.5 Test Result

Note: Test chart See Appendix A

4.6 Conducted Spurious Emission

4.6.1 Test Limit

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum power, and at the appropriate frequencies.

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 emission limit equal to -13dBm.

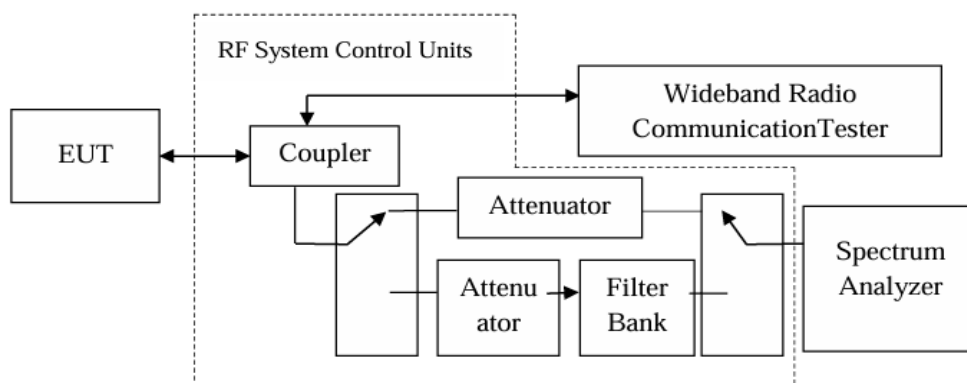
4.6.2 Test Procedure

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4.6.3 Test Setting

1. Set the analyzer frequency to low, mid, high channel.
2. RBW = 1MHz
3. VBW $\geq 3 \times$ RBW
4. Sweep time = auto
5. Detector = power averaging (rms)
6. Set sweep trigger to "free run."
7. User gate triggered such that the analyzer only sweeps when the device is transmitting at full power.
8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple.
To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time.

4.6.4 Test Setup



4.6.5 Test Result

Note: Test chart See Appendix B

4.7 Radiated Spurious Emission

4.7.1 Test Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm.

$E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20 \log D + 104.8$; where D is the measurement distance in meters.

The emission limit equal to 82.3dB μ V/m or 70.3dB μ V/m.

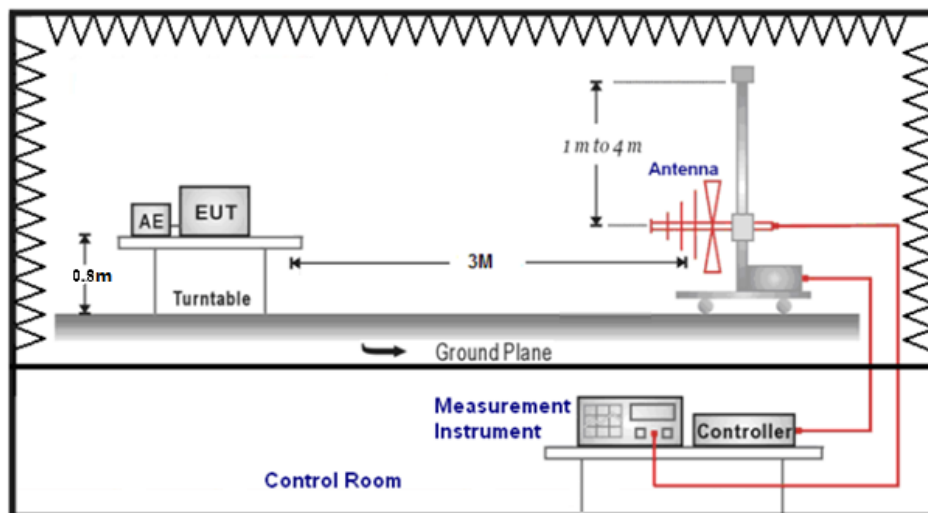
4.7.2 Test Procedure

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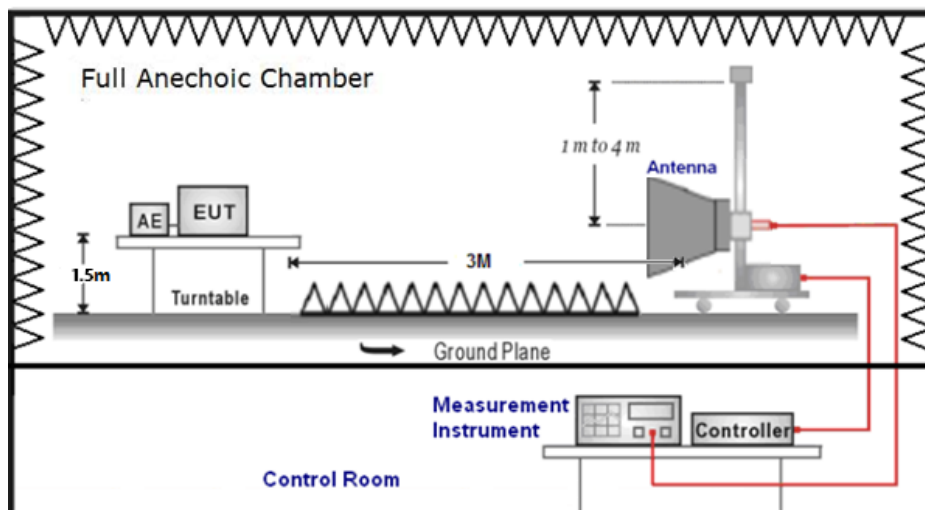
4.7.3 Test Setting

1. RBW = 1MHz
2. VBW $\geq 3 \times$ RBW
3. Sweep time $\geq 10 \times$ (number of points in sweep) $\times$ (transmission symbol period)
4. Detector = Peak
5. Trace mode = max hold
6. The trace was allowed to stabilize

4.7.4 Test Setup



30M~1G Test Setup Figure



Above 1G Test Setup Figure

4.7.5 Test Result

Note: Test chart See Appendix E

WCDMA B2 Radiated Spurious Emission						
Freq.[MHz]	Level[dBm]	Limit[dBm]	Margin[dB]	Polarity	Detector	Verdict
293.549	-55.57	-13	42.57	Horizontal	PK	PASS
998.739	-41.13	-13	28.13	Horizontal	PK	PASS
3759	-46.18	-13	33.18	Horizontal	PK	PASS
5641.5	-39.3	-13	26.3	Horizontal	PK	PASS
7522.5	-41.87	-13	28.87	Horizontal	PK	PASS
11274	-40.74	-13	27.74	Horizontal	PK	PASS

WCDMA B2 Radiated Spurious Emission						
Freq.[MHz]	Level[dBm]	Limit[dBm]	Margin[dB]	Polarity	Detector	Verdict
252.13	-54.91	-13	41.91	Vertical	PK	PASS
985.159	-40.77	-13	27.77	Vertical	PK	PASS
3757.5	-42.46	-13	29.46	Vertical	PK	PASS
5641.5	-40.91	-13	27.91	Vertical	PK	PASS
7524	-35.76	-13	22.76	Vertical	PK	PASS
9394.5	-36.76	-13	23.76	Vertical	PK	PASS

WCDMA B4 Radiated Spurious Emission						
Freq.[MHz]	Level[dBm]	Limit[dBm]	Margin[dB]	Polarity	Detector	Verdict
472.805	-49.28	-13	36.28	Horizontal	PK	PASS
960.424	-40.65	-13	27.65	Horizontal	PK	PASS
3478.5	-38.3	-13	25.3	Horizontal	PK	PASS
5217	-43.18	-13	30.18	Horizontal	PK	PASS
6964.5	-42.24	-13	29.24	Horizontal	PK	PASS
8703	-42.9	-13	29.9	Horizontal	PK	PASS

WCDMA B4 Radiated Spurious Emission						
Freq.[MHz]	Level[dBm]	Limit[dBm]	Margin[dB]	Polarity	Detector	Verdict
253.585	-55.13	-13	42.13	Vertical	PK	PASS
924.728	-41.05	-13	28.05	Vertical	PK	PASS
3478.5	-40.89	-13	27.89	Vertical	PK	PASS
5218.5	-44.7	-13	31.7	Vertical	PK	PASS
6964.5	-41.2	-13	28.2	Vertical	PK	PASS
8704.5	-37.58	-13	24.58	Vertical	PK	PASS

WCDMA B5 Radiated Spurious Emission						
Freq.[MHz]	Level[dBm]	Limit[dBm]	Margin[dB]	Polarity	Detector	Verdict
293.743	-54.93	-13	41.93	Horizontal	PK	PASS
472.514	-49.56	-13	36.56	Horizontal	PK	PASS
1666.617	-43.98	-13	30.98	Horizontal	PK	PASS
3335.117	-48.52	-13	35.52	Horizontal	PK	PASS
4166.233	-45.29	-13	32.29	Horizontal	PK	PASS
5168.117	-43.18	-13	30.18	Horizontal	PK	PASS

WCDMA B5 Radiated Spurious Emission						
Freq.[MHz]	Level[dBm]	Limit[dBm]	Margin[dB]	Polarity	Detector	Verdict
257.562	-54.26	-13	41.26	Vertical	PK	PASS
489.78	-50.26	-13	37.26	Vertical	PK	PASS
1667.4	-44.76	-13	31.76	Vertical	PK	PASS
2453.867	-49.72	-13	36.72	Vertical	PK	PASS
3335.117	-42.23	-13	29.23	Vertical	PK	PASS
5132.083	-43.39	-13	30.39	Vertical	PK	PASS

5 Test Result(LTE)

5.1 Occupied Bandwidth

5.1.1 Test Limit

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

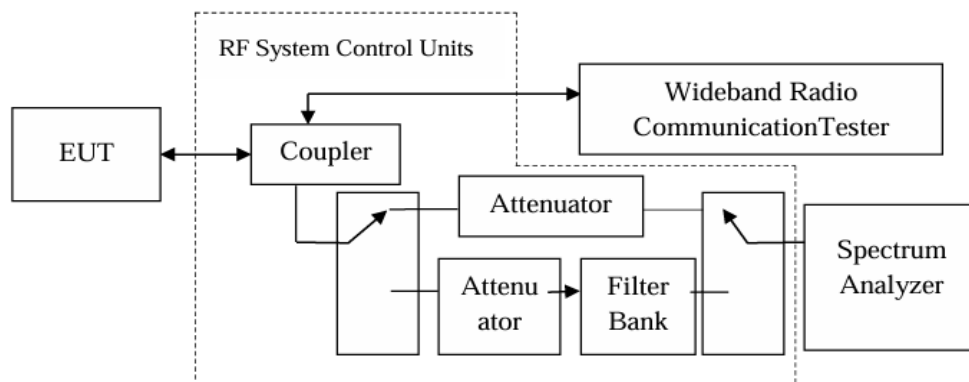
5.1.2 Test Procedure

ANSI C63.26-2015 - Section 5.4

5.1.3 Test Setting

1. Set center frequency to the nominal EUT channel center frequency
2. RBW = The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. Allow the trace to stabilize
8. Use the 99% power bandwidth and 26dB bandwidth function of the instrument and report the measured bandwidth.

5.1.4 Test Setup



5.1.5 Test Result

LTE Band 2 Bandwidth(MHz)						
Bandwidth (MHz)	Modulation	Channel	RB Configuration	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
1.4	QPSK	18607	6RB@0	1.08	1.24	PASS
1.4	QPSK	18900	6RB@0	1.08	1.23	PASS
1.4	QPSK	19193	6RB@0	1.09	1.24	PASS
1.4	16QAM	18607	6RB@0	1.08	1.23	PASS
1.4	16QAM	18900	6RB@0	1.09	1.23	PASS



1.4	16QAM	19193	6RB@0	1.08	1.24	PASS
3	QPSK	18615	15RB@0	2.69	2.98	PASS
3	QPSK	18900	15RB@0	2.69	2.99	PASS
3	QPSK	19185	15RB@0	2.69	2.99	PASS
3	16QAM	18615	15RB@0	2.69	2.98	PASS
3	16QAM	18900	15RB@0	2.69	2.99	PASS
3	16QAM	19185	15RB@0	2.69	2.98	PASS
5	QPSK	18625	25RB@0	4.47	4.92	PASS
5	QPSK	18900	25RB@0	4.48	4.93	PASS
5	QPSK	19175	25RB@0	4.48	4.92	PASS
5	16QAM	18625	25RB@0	4.47	4.92	PASS
5	16QAM	18900	25RB@0	4.47	4.90	PASS
5	16QAM	19175	25RB@0	4.47	4.92	PASS
10	QPSK	18650	50RB@0	8.87	9.60	PASS
10	QPSK	18900	50RB@0	8.87	9.67	PASS
10	QPSK	19150	50RB@0	8.87	9.60	PASS
10	16QAM	18650	27RB@0	4.86	5.66	PASS
10	16QAM	18900	27RB@0	4.87	5.66	PASS
10	16QAM	19150	27RB@0	4.86	5.66	PASS
15	QPSK	18675	75RB@0	13.30	14.72	PASS
15	QPSK	18900	75RB@0	13.40	14.78	PASS
15	QPSK	19125	75RB@0	13.36	14.77	PASS
15	16QAM	18675	27RB@0	5.06	6.09	PASS
15	16QAM	18900	27RB@0	5.06	6.09	PASS
15	16QAM	19125	27RB@0	5.07	6.05	PASS
20	QPSK	18700	100RB@0	17.77	19.37	PASS
20	QPSK	18900	100RB@0	17.76	19.39	PASS
20	QPSK	19100	100RB@0	17.75	19.39	PASS
20	16QAM	18700	27RB@0	5.18	6.48	PASS
20	16QAM	18900	27RB@0	5.18	6.46	PASS
20	16QAM	19100	27RB@0	5.16	6.48	PASS

LTE Band 4 Bandwidth(MHz)						
Bandwidth (MHz)	Modulation	Channel	RB Configuration	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
1.4	QPSK	19957	6RB@0	1.08	1.24	PASS
1.4	QPSK	20175	6RB@0	1.08	1.23	PASS
1.4	QPSK	20393	6RB@0	1.08	1.23	PASS
1.4	16QAM	19957	6RB@0	1.08	1.24	PASS
1.4	16QAM	20175	6RB@0	1.09	1.23	PASS
1.4	16QAM	20393	6RB@0	1.08	1.23	PASS
3	QPSK	19965	15RB@0	2.68	2.98	PASS
3	QPSK	20175	15RB@0	2.66	2.95	PASS



3	QPSK	20385	15RB@0	2.68	2.98	PASS
3	16QAM	19965	15RB@0	2.66	2.97	PASS
3	16QAM	20175	15RB@0	2.68	2.97	PASS
3	16QAM	20385	15RB@0	2.66	2.99	PASS
5	QPSK	19975	25RB@0	4.45	4.91	PASS
5	QPSK	20175	25RB@0	4.44	4.91	PASS
5	QPSK	20375	25RB@0	4.44	4.91	PASS
5	16QAM	19975	25RB@0	4.44	4.90	PASS
5	16QAM	20175	25RB@0	4.46	4.91	PASS
5	16QAM	20375	25RB@0	4.48	4.92	PASS
10	QPSK	20000	50RB@0	8.89	9.61	PASS
10	QPSK	20175	50RB@0	8.88	9.56	PASS
10	QPSK	20350	50RB@0	8.90	9.53	PASS
10	16QAM	20000	27RB@0	4.87	5.70	PASS
10	16QAM	20175	27RB@0	4.87	5.66	PASS
10	16QAM	20350	27RB@0	4.86	5.66	PASS
15	QPSK	20025	75RB@0	13.33	14.73	PASS
15	QPSK	20175	75RB@0	13.43	14.77	PASS
15	QPSK	20325	75RB@0	13.42	14.74	PASS
15	16QAM	20025	27RB@0	5.07	6.08	PASS
15	16QAM	20175	27RB@0	5.06	6.08	PASS
15	16QAM	20325	27RB@0	5.07	6.05	PASS
20	QPSK	20050	100RB@0	17.78	19.38	PASS
20	QPSK	20175	100RB@0	17.74	19.38	PASS
20	QPSK	20300	100RB@0	17.78	19.40	PASS
20	16QAM	20050	27RB@0	5.18	6.49	PASS
20	16QAM	20175	27RB@0	5.18	6.46	PASS
20	16QAM	20300	27RB@0	5.18	6.48	PASS

LTE Band 5 Bandwidth(MHz)						
Bandwidth (MHz)	Modulation	Channel	RB Configuration	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
1.4	QPSK	20407	6RB@0	1.08	1.23	PASS
1.4	QPSK	20525	6RB@0	1.08	1.24	PASS
1.4	QPSK	20643	6RB@0	1.07	1.24	PASS
1.4	16QAM	20407	6RB@0	1.08	1.24	PASS
1.4	16QAM	20525	6RB@0	1.07	1.24	PASS
1.4	16QAM	20643	6RB@0	1.08	1.23	PASS
3	QPSK	20415	15RB@0	2.68	2.97	PASS
3	QPSK	20525	15RB@0	2.66	2.95	PASS
3	QPSK	20635	15RB@0	2.68	2.95	PASS
3	16QAM	20415	15RB@0	2.69	2.96	PASS
3	16QAM	20525	15RB@0	2.67	2.99	PASS

3	16QAM	20635	15RB@0	2.68	2.96	PASS
5	QPSK	20425	25RB@0	4.44	4.90	PASS
5	QPSK	20525	25RB@0	4.43	4.87	PASS
5	QPSK	20625	25RB@0	4.45	4.88	PASS
5	16QAM	20425	25RB@0	4.47	4.90	PASS
5	16QAM	20525	25RB@0	4.46	4.88	PASS
5	16QAM	20625	25RB@0	4.46	4.88	PASS
10	QPSK	20450	50RB@0	8.87	9.55	PASS
10	QPSK	20525	50RB@0	8.90	9.57	PASS
10	QPSK	20600	50RB@0	8.87	9.59	PASS
10	16QAM	20450	27RB@0	4.87	5.68	PASS
10	16QAM	20525	27RB@0	4.88	5.68	PASS
10	16QAM	20600	27RB@0	4.86	5.66	PASS

LTE Band 7 Bandwidth(MHz)						
Bandwidth (MHz)	Modulation	Channel	RB Configuration	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
5	QPSK	20775	25RB@0	4.42	4.89	PASS
5	QPSK	21100	25RB@0	4.47	4.91	PASS
5	QPSK	21425	25RB@0	4.45	4.88	PASS
5	16QAM	20775	25RB@0	4.43	4.88	PASS
5	16QAM	21100	25RB@0	4.43	4.89	PASS
5	16QAM	21425	25RB@0	4.46	4.90	PASS
10	QPSK	20800	50RB@0	8.90	9.63	PASS
10	QPSK	21100	50RB@0	8.88	9.58	PASS
10	QPSK	21400	50RB@0	8.88	9.54	PASS
10	16QAM	20800	27RB@0	4.86	5.62	PASS
10	16QAM	21100	27RB@0	4.86	5.66	PASS
10	16QAM	21400	27RB@0	4.86	5.66	PASS
15	QPSK	20825	75RB@0	13.32	14.78	PASS
15	QPSK	21100	75RB@0	13.30	14.72	PASS
15	QPSK	21375	75RB@0	13.40	14.76	PASS
15	16QAM	20825	27RB@0	5.07	6.09	PASS
15	16QAM	21100	27RB@0	5.06	6.08	PASS
15	16QAM	21375	27RB@0	5.07	6.08	PASS
20	QPSK	20850	100RB@0	17.74	19.37	PASS
20	QPSK	21100	100RB@0	17.75	19.39	PASS
20	QPSK	21350	100RB@0	17.75	19.38	PASS
20	16QAM	20850	27RB@0	5.18	6.44	PASS
20	16QAM	21100	27RB@0	5.19	6.45	PASS
20	16QAM	21350	27RB@0	5.18	6.48	PASS

LTE Band 12 Bandwidth(MHz)						
Bandwidth (MHz)	Modulation	Channel	RB Configuration	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
1.4	QPSK	23017	6RB@0	1.08	1.23	PASS
1.4	QPSK	23095	6RB@0	1.09	1.24	PASS
1.4	QPSK	23173	6RB@0	1.08	1.23	PASS
1.4	16QAM	23017	6RB@0	1.08	1.24	PASS
1.4	16QAM	23095	6RB@0	1.08	1.24	PASS
1.4	16QAM	23173	6RB@0	1.09	1.23	PASS
3	QPSK	23025	15RB@0	2.66	2.94	PASS
3	QPSK	23095	15RB@0	2.67	2.97	PASS
3	QPSK	23165	15RB@0	2.69	2.98	PASS
3	16QAM	23025	15RB@0	2.67	2.96	PASS
3	16QAM	23095	15RB@0	2.69	2.95	PASS
3	16QAM	23165	15RB@0	2.67	2.95	PASS
5	QPSK	23035	25RB@0	4.46	4.87	PASS
5	QPSK	23095	25RB@0	4.46	4.87	PASS
5	QPSK	23155	25RB@0	4.45	4.90	PASS
5	16QAM	23035	25RB@0	4.43	4.93	PASS
5	16QAM	23095	25RB@0	4.43	4.92	PASS
5	16QAM	23155	25RB@0	4.43	4.89	PASS
10	QPSK	23060	50RB@0	8.88	9.55	PASS
10	QPSK	23095	50RB@0	8.89	9.63	PASS
10	QPSK	23130	50RB@0	8.89	9.56	PASS
10	16QAM	23060	27RB@0	4.86	5.67	PASS
10	16QAM	23095	27RB@0	4.88	5.67	PASS
10	16QAM	23130	27RB@0	4.86	5.66	PASS

LTE Band 13 Bandwidth(MHz)						
Bandwidth (MHz)	Modulation	Channel	RB Configuration	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
5	QPSK	23205	25RB@0	4.46	4.88	PASS
5	QPSK	23230	25RB@0	4.46	4.88	PASS
5	QPSK	23255	25RB@0	4.42	4.89	PASS
5	16QAM	23205	25RB@0	4.47	4.91	PASS
5	16QAM	23230	25RB@0	4.45	4.88	PASS
5	16QAM	23255	25RB@0	4.46	4.88	PASS
10	QPSK	23230	50RB@0	8.88	9.55	PASS
10	16QAM	23230	27RB@0	4.86	5.66	PASS



LTE Band 25 Bandwidth(MHz)						
Bandwidth (MHz)	Modulation	Channel	RB Configuration	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
1.4	QPSK	26047	6RB@0	1.08	1.23	PASS
1.4	QPSK	26365	6RB@0	1.09	1.23	PASS
1.4	QPSK	26683	6RB@0	1.07	1.24	PASS
1.4	16QAM	26047	6RB@0	1.07	1.24	PASS
1.4	16QAM	26365	6RB@0	1.09	1.24	PASS
1.4	16QAM	26683	6RB@0	1.08	1.24	PASS
3	QPSK	26055	15RB@0	2.66	2.96	PASS
3	QPSK	26365	15RB@0	2.67	2.97	PASS
3	QPSK	26675	15RB@0	2.66	2.98	PASS
3	16QAM	26055	15RB@0	2.66	2.96	PASS
3	16QAM	26365	15RB@0	2.68	2.97	PASS
3	16QAM	26675	15RB@0	2.66	2.98	PASS
5	QPSK	26065	25RB@0	4.47	4.91	PASS
5	QPSK	26365	25RB@0	4.42	4.91	PASS
5	QPSK	26665	25RB@0	4.48	4.87	PASS
5	16QAM	26065	25RB@0	4.46	4.90	PASS
5	16QAM	26365	25RB@0	4.45	4.90	PASS
5	16QAM	26665	25RB@0	4.43	4.90	PASS
10	QPSK	26090	50RB@0	8.88	9.59	PASS
10	QPSK	26365	50RB@0	8.89	9.63	PASS
10	QPSK	26640	50RB@0	8.90	9.62	PASS
10	16QAM	26090	27RB@0	4.87	5.67	PASS
10	16QAM	26365	27RB@0	4.88	5.69	PASS
10	16QAM	26640	27RB@0	4.87	5.68	PASS
15	QPSK	26115	75RB@0	13.45	14.77	PASS
15	QPSK	26365	75RB@0	13.37	14.78	PASS
15	QPSK	26615	75RB@0	13.42	14.76	PASS
15	16QAM	26115	27RB@0	5.04	6.02	PASS
15	16QAM	26365	27RB@0	5.07	6.08	PASS
15	16QAM	26615	27RB@0	5.06	6.08	PASS
20	QPSK	26140	100RB@0	17.74	19.38	PASS
20	QPSK	26365	100RB@0	17.75	19.37	PASS
20	QPSK	26590	100RB@0	17.74	19.39	PASS
20	16QAM	26140	27RB@0	5.20	6.45	PASS
20	16QAM	26365	27RB@0	5.16	6.40	PASS
20	16QAM	26590	27RB@0	5.16	6.40	PASS

LTE Band 26(814-824MHz) Bandwidth(MHz)						
Bandwidth	Modulation	Channel	RB	99% Occupied	26dB	Verdict



(MHz)			Configuration	Bandwidth (MHz)	Bandwidth (MHz)	
1.4	QPSK	26697	6RB@0	1.08	1.23	PASS
1.4	QPSK	26740	6RB@0	1.07	1.24	PASS
1.4	QPSK	26783	6RB@0	1.08	1.23	PASS
1.4	16QAM	26697	6RB@0	1.08	1.24	PASS
1.4	16QAM	26740	6RB@0	1.08	1.23	PASS
1.4	16QAM	26783	6RB@0	1.09	1.23	PASS
3	QPSK	26705	15RB@0	2.67	2.97	PASS
3	QPSK	26740	15RB@0	2.66	2.95	PASS
3	QPSK	26775	15RB@0	2.66	2.99	PASS
3	16QAM	26705	15RB@0	2.67	2.99	PASS
3	16QAM	26740	15RB@0	2.68	2.96	PASS
3	16QAM	26775	15RB@0	2.69	2.95	PASS
5	QPSK	26715	25RB@0	4.46	4.93	PASS
5	QPSK	26740	25RB@0	4.45	4.89	PASS
5	QPSK	26765	25RB@0	4.47	4.88	PASS
5	16QAM	26715	25RB@0	4.46	4.92	PASS
5	16QAM	26740	25RB@0	4.46	4.88	PASS
5	16QAM	26765	25RB@0	4.46	4.90	PASS
10	QPSK	26740	50RB@0	8.88	9.56	PASS
10	16QAM	26740	27RB@0	4.87	5.68	PASS

LTE Band 26(824-849MHz) Bandwidth(MHz)						
Bandwidth (MHz)	Modulation	Channel	RB Configuration	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
1.4	QPSK	26797	6RB@0	1.09	1.23	PASS
1.4	QPSK	26915	6RB@0	1.09	1.24	PASS
1.4	QPSK	27033	6RB@0	1.07	1.23	PASS
1.4	16QAM	26797	6RB@0	1.07	1.24	PASS
1.4	16QAM	26915	6RB@0	1.09	1.24	PASS
1.4	16QAM	27033	6RB@0	1.08	1.24	PASS
3	QPSK	26805	15RB@0	2.69	2.99	PASS
3	QPSK	26915	15RB@0	2.66	2.95	PASS
3	QPSK	27025	15RB@0	2.68	2.97	PASS
3	16QAM	26805	15RB@0	2.67	2.98	PASS
3	16QAM	26915	15RB@0	2.67	2.95	PASS
3	16QAM	27025	15RB@0	2.67	2.95	PASS
5	QPSK	26815	25RB@0	4.47	4.91	PASS
5	QPSK	26915	25RB@0	4.45	4.92	PASS
5	QPSK	27015	25RB@0	4.43	4.89	PASS
5	16QAM	26815	25RB@0	4.43	4.88	PASS
5	16QAM	26915	25RB@0	4.46	4.91	PASS

5	16QAM	27015	25RB@0	4.42	4.87	PASS
10	QPSK	26840	50RB@0	8.88	9.64	PASS
10	QPSK	26915	50RB@0	8.89	9.56	PASS
10	QPSK	26990	50RB@0	8.88	9.55	PASS
10	16QAM	26840	27RB@0	4.88	5.69	PASS
10	16QAM	26915	27RB@0	4.88	5.69	PASS
10	16QAM	26990	27RB@0	4.87	5.67	PASS
15	QPSK	26865	75RB@0	13.37	14.76	PASS
15	QPSK	26915	75RB@0	13.41	14.77	PASS
15	QPSK	26965	75RB@0	13.30	14.76	PASS
15	16QAM	26865	27RB@0	5.05	6.04	PASS
15	16QAM	26915	27RB@0	5.07	6.09	PASS
15	16QAM	26965	27RB@0	5.06	6.08	PASS

LTE Band 38 Bandwidth(MHz)						
Bandwidth (MHz)	Modulation	Channel	RB Configuration	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
5	QPSK	37775	25RB@0	4.46	4.89	PASS
5	QPSK	38000	25RB@0	4.46	4.93	PASS
5	QPSK	38225	25RB@0	4.44	4.91	PASS
5	16QAM	37775	25RB@0	4.44	4.88	PASS
5	16QAM	38000	25RB@0	4.44	4.89	PASS
5	16QAM	38225	25RB@0	4.42	4.91	PASS
10	QPSK	37800	50RB@0	8.91	9.54	PASS
10	QPSK	38000	50RB@0	8.89	9.55	PASS
10	QPSK	38200	50RB@0	8.90	9.63	PASS
10	16QAM	37800	27RB@0	4.89	5.70	PASS
10	16QAM	38000	27RB@0	4.88	5.69	PASS
10	16QAM	38200	27RB@0	4.88	5.69	PASS
15	QPSK	37825	75RB@0	13.35	14.76	PASS
15	QPSK	38000	75RB@0	13.39	14.78	PASS
15	QPSK	38175	75RB@0	13.44	14.79	PASS
15	16QAM	37825	27RB@0	5.04	6.06	PASS
15	16QAM	38000	27RB@0	5.07	6.05	PASS
15	16QAM	38175	27RB@0	5.06	6.06	PASS
20	QPSK	37850	100RB@0	17.77	19.39	PASS
20	QPSK	38000	100RB@0	17.76	19.39	PASS
20	QPSK	38150	100RB@0	17.75	19.40	PASS
20	16QAM	37850	27RB@0	5.16	6.12	PASS
20	16QAM	38000	27RB@0	5.14	6.08	PASS
20	16QAM	38150	27RB@0	5.14	6.10	PASS

LTE Band 41 Bandwidth(MHz)						
Bandwidth (MHz)	Modulation	Channel	RB Configuration	99% Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
5	QPSK	39675	25RB@0	4.42	4.93	PASS
5	QPSK	40620	25RB@0	4.43	4.89	PASS
5	QPSK	41565	25RB@0	4.48	4.92	PASS
5	16QAM	39675	25RB@0	4.45	4.90	PASS
5	16QAM	40620	25RB@0	4.44	4.91	PASS
5	16QAM	41565	25RB@0	4.44	4.93	PASS
10	QPSK	39700	50RB@0	8.89	9.62	PASS
10	QPSK	40620	50RB@0	8.89	9.58	PASS
10	QPSK	41540	50RB@0	8.87	9.60	PASS
10	16QAM	39700	27RB@0	4.87	5.72	PASS
10	16QAM	40620	27RB@0	4.88	5.69	PASS
10	16QAM	41540	27RB@0	4.88	5.69	PASS
15	QPSK	39725	75RB@0	13.38	14.76	PASS
15	QPSK	40620	75RB@0	13.40	14.74	PASS
15	QPSK	41515	75RB@0	13.36	14.75	PASS
15	16QAM	39725	27RB@0	5.04	6.07	PASS
15	16QAM	40620	27RB@0	5.06	6.05	PASS
15	16QAM	41515	27RB@0	5.06	6.06	PASS
20	QPSK	39750	100RB@0	17.77	19.39	PASS
20	QPSK	40620	100RB@0	17.74	19.39	PASS
20	QPSK	41490	100RB@0	17.76	19.38	PASS
20	16QAM	39750	27RB@0	5.11	6.09	PASS
20	16QAM	40620	27RB@0	5.14	6.08	PASS
20	16QAM	41490	27RB@0	5.16	6.11	PASS

5.2 Frequency Stability

5.2.1 Test Limit

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

5.2.2 Test Procedure

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5.2.3 Test Setting

Frequency Stability Under Temperature Variations:

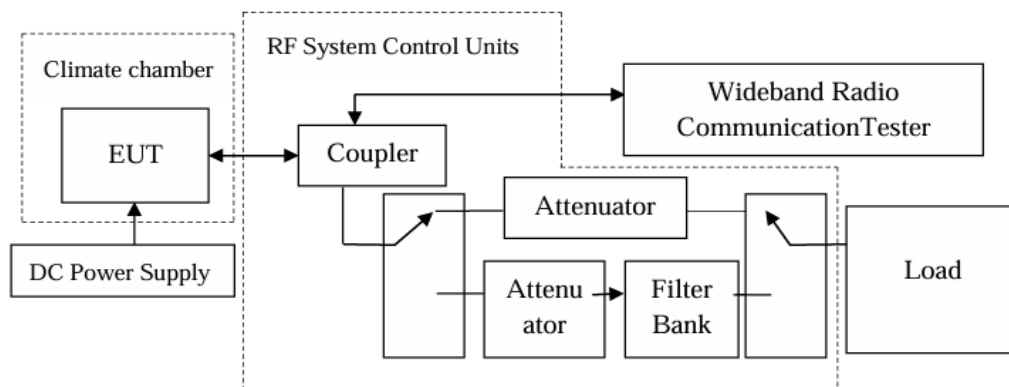
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C . Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

5.2.4 Test Setup



5.2.5 Test Result

LTE Band 2 Frequency Tolerance, Channel: 18900, BW:20MHz, Mod:QPSK				
Power (VDC)	Temperature (°C)	Frequency Tolerance (Hz)	Frequency Tolerance (ppm)	Verdict
54	50	-4	-0.0021	PASS
	40	-4	-0.0021	PASS
	30	-3	-0.0016	PASS
	20	-3	-0.0016	PASS
	10	-4	-0.0021	PASS
	0	-5	-0.0027	PASS



	-10	-2	-0.0011	PASS
	-20	-1	-0.0005	PASS
	-30	-3	-0.0016	PASS
62.1	20	-2	-0.0011	PASS
45.9		-3	-0.0016	PASS

LTE Band 4 Frequency Tolerance,Channel: 20175,BW:20MHz,Mod:QPSK				
Power (VDC)	Temperature (°C)	Frequency Tolerance (Hz)	Frequency Tolerance (ppm)	Verdict
54	50	4	0.0023	PASS
	40	3	0.0017	PASS
	30	2	0.0012	PASS
	20	-2	-0.0012	PASS
	10	-2	-0.0012	PASS
	0	-3	-0.0017	PASS
	-10	-1	-0.0006	PASS
	-20	2	0.0012	PASS
	-30	-2	-0.0012	PASS
62.1	20	0	0.0000	PASS
45.9		-2	-0.0012	PASS

LTE Band 5 Frequency Tolerance,Channel: 20525,BW:10MHz,Mod:QPSK				
Power (VDC)	Temperature (°C)	Frequency Tolerance (Hz)	Frequency Tolerance (ppm)	Verdict
54	50	-2	-0.0024	PASS
	40	-2	-0.0024	PASS
	30	-1	-0.0012	PASS
	20	-1	-0.0012	PASS
	10	-2	-0.0024	PASS
	0	-1	-0.0012	PASS
	-10	-1	-0.0012	PASS
	-20	-1	-0.0012	PASS
	-30	-2	-0.0024	PASS
62.1	20	-1	-0.0012	PASS
45.9		-3	-0.0036	PASS

LTE Band 7 Frequency Tolerance,Channel: 21100,BW:20MHz,Mod:QPSK				
Power (VDC)	Temperature (°C)	Frequency Tolerance (Hz)	Frequency Tolerance (ppm)	Verdict
54	50	-5	-0.0020	PASS
	40	-5	-0.0020	PASS
	30	-5	-0.0020	PASS

	20	0	0.0000	PASS
	10	-6	-0.0024	PASS
	0	0	0.0000	PASS
	-10	3	0.0012	PASS
	-20	0	0.0000	PASS
	-30	0	0.0000	PASS
62.1	20	-2	-0.0008	PASS
45.9		0	0.0000	PASS

LTE Band 12 Frequency Tolerance,Channel: 23095,BW:10MHz,Mod:QPSK				
Power (VDC)	Temperature (°C)	Frequency Tolerance (Hz)	Frequency Tolerance (ppm)	Verdict
54	50	-2	-0.0028	PASS
	40	-3	-0.0042	PASS
	30	-2	-0.0028	PASS
	20	-1	-0.0014	PASS
	10	-1	-0.0014	PASS
	0	0	0.0000	PASS
	-10	-1	-0.0014	PASS
	-20	-1	-0.0014	PASS
	-30	2	0.0028	PASS
62.1	20	0	0.0000	PASS
45.9		-2	-0.0028	PASS

LTE Band 13 Frequency Tolerance,Channel: 23230,BW:10MHz,Mod:QPSK				
Power (VDC)	Temperature (°C)	Frequency Tolerance (Hz)	Frequency Tolerance (ppm)	Verdict
54	50	-2	-0.0026	PASS
	40	-1	-0.0013	PASS
	30	-3	-0.0038	PASS
	20	-1	-0.0013	PASS
	10	-1	-0.0013	PASS
	0	0	0.0000	PASS
	-10	-2	-0.0026	PASS
	-20	-1	-0.0013	PASS
	-30	1	0.0013	PASS
62.1	20	-2	-0.0026	PASS
45.9		0	0.0000	PASS

LTE Band 25 Frequency Tolerance,Channel: 26365,BW:20MHz,Mod:QPSK				
Power (VDC)	Temperature (°C)	Frequency Tolerance (Hz)	Frequency Tolerance (ppm)	Verdict
54	50	-3	-0.0016	PASS
	40	0	0.0000	PASS
	30	1	0.0005	PASS
	20	-2	-0.0011	PASS
	10	0	0.0000	PASS
	0	3	0.0016	PASS
	-10	0	0.0000	PASS
	-20	5	0.0027	PASS
	-30	5	0.0027	PASS
62.1	20	-4	-0.0021	PASS
45.9		-1	-0.0005	PASS

LTE Band 26(814-824MHz) Frequency Tolerance,Channel: 26740,BW:10MHz,Mod:QPSK				
Power (VDC)	Temperature (°C)	Frequency Tolerance (Hz)	Frequency Tolerance (ppm)	Verdict
54	50	-1	-0.0012	PASS
	40	-1	-0.0012	PASS
	30	-3	-0.0037	PASS
	20	-3	-0.0037	PASS
	10	-2	-0.0024	PASS
	0	-2	-0.0024	PASS
	-10	3	0.0037	PASS
	-20	-1	-0.0012	PASS
	-30	-2	-0.0024	PASS
62.1	20	-5	-0.0061	PASS
45.9		0	0.0000	PASS

LTE Band 26(824-849MHz) Frequency Tolerance,Channel: 26915,BW:15MHz,Mod:QPSK				
Power (VDC)	Temperature (°C)	Frequency Tolerance (Hz)	Frequency Tolerance (ppm)	Verdict
54	50	-2	-0.0024	PASS
	40	-2	-0.0024	PASS
	30	-1	-0.0012	PASS
	20	0	0.0000	PASS
	10	-1	-0.0012	PASS
	0	-2	-0.0024	PASS
	-10	-2	-0.0024	PASS
	-20	-3	-0.0036	PASS
	-30	-1	-0.0012	PASS

62.1	20	-3	-0.0036	PASS
45.9		-2	-0.0024	PASS

LTE Band 38 Frequency Tolerance,Channel: 38000,BW:20MHz,Mod:QPSK				
Power (VDC)	Temperature (°C)	Frequency Tolerance (Hz)	Frequency Tolerance (ppm)	Verdict
54	50	9	0.0035	PASS
	40	5	0.0019	PASS
	30	4	0.0015	PASS
	20	-1	-0.0004	PASS
	10	-4	-0.0015	PASS
	0	-4	-0.0015	PASS
	-10	-1	-0.0004	PASS
	-20	4	0.0015	PASS
	-30	0	0.0000	PASS
62.1	20	-3	-0.0012	PASS
45.9		-1	-0.0004	PASS

LTE Band 41 Frequency Tolerance,Channel: 40620,BW:20MHz,Mod:QPSK				
Power (VDC)	Temperature (°C)	Frequency Tolerance (Hz)	Frequency Tolerance (ppm)	Verdict
54	50	-3	-0.0012	PASS
	40	2	0.0008	PASS
	30	-3	-0.0012	PASS
	20	2	0.0008	PASS
	10	3	0.0012	PASS
	0	1	0.0004	PASS
	-10	3	0.0012	PASS
	-20	5	0.0019	PASS
	-30	-1	-0.0004	PASS
62.1	20	-2	-0.0008	PASS
45.9		1	0.0004	PASS

5.3 Equivalent Isotropic Radiated Power Measurement

5.3.1 Test Limit

Band 5,26:

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

Band 12,13

Control stations and mobile stations transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 30 watts ERP. Control stations and mobile stations in the 698-746 MHz band are limited to 30 watts ERP.

Band 2,7,25,38,41:

Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

Band 4:

Fixed, mobile stations operating in the 1710-1755 MHz band and mobile in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

5.3.2 Test Procedure

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5.3.3 Test Setting

1. The transmitter output port was connected to the test system.
2. Set out at maximum power through the wideband radio communication tester.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the wideband radio communication tester.

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation (1) as follows:

$$\text{ERP or EIRP} = \text{PMeas} + \text{GT}$$

where

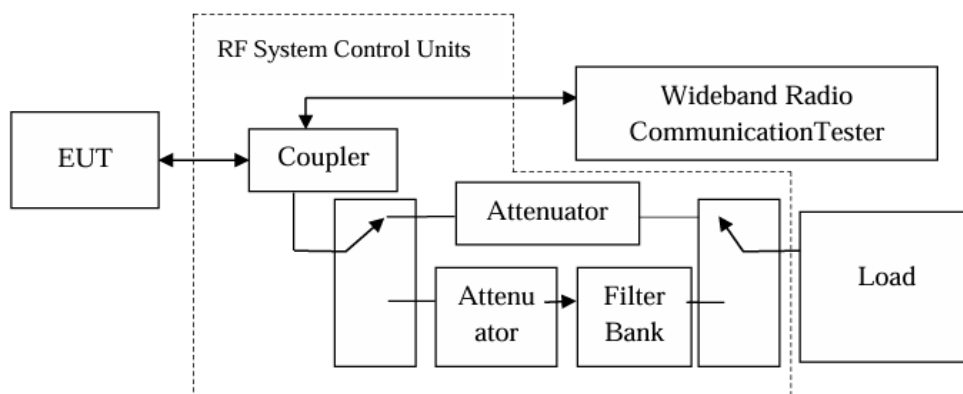
ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as PMeas, e.g., dBm or dBW)

PMeas measured transmitter output power or PSD, in dBm or dBW

GT gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

$$\text{ERP} = \text{EIRP} - 2.15$$

5.3.4 Test Setup



5.3.5 Test Result

LTE Band 2 Output Power							
Bandwidth (MHz)	Modulation	Channel	RB Configuration	Output Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
1.4	QPSK	18607	1RB@0	21.3	25.5	<33.0	PASS
		18900		21.0	25.2	<33.0	PASS
		19193		21.3	25.5	<33.0	PASS
1.4	QPSK	18607	1RB@2	21.2	25.4	<33.0	PASS
		18900		21.4	25.6	<33.0	PASS
		19193		21.1	25.3	<33.0	PASS
1.4	QPSK	18607	1RB@6	21.2	25.4	<33.0	PASS
		18900		20.9	25.1	<33.0	PASS
		19193		21.1	25.3	<33.0	PASS
1.4	QPSK	18607	6RB@0	21.0	25.2	<33.0	PASS
		18900		21.2	25.4	<33.0	PASS
		19193		21.3	25.5	<33.0	PASS
1.4	16QAM	18607	1RB@0	21.2	25.4	<33.0	PASS
		18900		21.5	25.7	<33.0	PASS
		19193		21.1	25.3	<33.0	PASS
1.4	16QAM	18607	1RB@2	21.2	25.4	<33.0	PASS
		18900		21.3	25.5	<33.0	PASS
		19193		21.0	25.2	<33.0	PASS
1.4	16QAM	18607	1RB@6	21.1	25.3	<33.0	PASS
		18900		21.4	25.6	<33.0	PASS
		19193		21.4	25.6	<33.0	PASS
1.4	16QAM	18607	6RB@0	21.4	25.6	<33.0	PASS
		18900		21.5	25.7	<33.0	PASS
		19193		21.1	25.3	<33.0	PASS
3	QPSK	18615	1RB@0	21.1	25.3	<33.0	PASS
		18900		21.1	25.3	<33.0	PASS
		19185		21.0	25.2	<33.0	PASS
3	QPSK	18615	1RB@7	21.4	25.6	<33.0	PASS
		18900		21.4	25.6	<33.0	PASS
		19185		21.0	25.2	<33.0	PASS
3	QPSK	18615	1RB@14	21.4	25.6	<33.0	PASS
		18900		21.0	25.2	<33.0	PASS
		19185		21.1	25.3	<33.0	PASS
3	QPSK	18615	15RB@0	20.9	25.1	<33.0	PASS
		18900		21.2	25.4	<33.0	PASS
		19185		21.1	25.3	<33.0	PASS
3	16QAM	18615	1RB@0	21.3	25.5	<33.0	PASS
		18900		20.9	25.1	<33.0	PASS
		19185		21.4	25.6	<33.0	PASS
3	16QAM	18615	1RB@7	21.4	25.6	<33.0	PASS

		18900		21.3	25.5	<33.0	PASS
		19185		21.0	25.2	<33.0	PASS
3	16QAM	18615	1RB@14	21.2	25.4	<33.0	PASS
		18900		21.2	25.4	<33.0	PASS
		19185		21.5	25.7	<33.0	PASS
3	16QAM	18615	15RB@0	21.0	25.2	<33.0	PASS
		18900		21.2	25.4	<33.0	PASS
		19185		20.9	25.1	<33.0	PASS
5	QPSK	18625	1RB@0	20.9	25.1	<33.0	PASS
		18900		21.0	25.2	<33.0	PASS
		19175		21.1	25.3	<33.0	PASS
5	QPSK	18625	1RB@12	21.0	25.2	<33.0	PASS
		18900		21.0	25.2	<33.0	PASS
		19175		21.3	25.5	<33.0	PASS
5	QPSK	18625	1RB@24	21.0	25.2	<33.0	PASS
		18900		21.3	25.5	<33.0	PASS
		19175		21.0	25.2	<33.0	PASS
5	QPSK	18625	25RB@0	21.3	25.5	<33.0	PASS
		18900		21.2	25.4	<33.0	PASS
		19175		21.4	25.6	<33.0	PASS
5	16QAM	18625	1RB@0	21.1	25.3	<33.0	PASS
		18900		21.2	25.4	<33.0	PASS
		19175		20.9	25.1	<33.0	PASS
5	16QAM	18625	1RB@12	21.1	25.3	<33.0	PASS
		18900		21.0	25.2	<33.0	PASS
		19175		21.2	25.4	<33.0	PASS
5	16QAM	18625	1RB@24	21.3	25.5	<33.0	PASS
		18900		21.2	25.4	<33.0	PASS
		19175		21.5	25.7	<33.0	PASS
5	16QAM	18625	25RB@0	21.1	25.3	<33.0	PASS
		18900		21.2	25.4	<33.0	PASS
		19175		21.3	25.5	<33.0	PASS
10	QPSK	18650	1RB@0	21.0	25.2	<33.0	PASS
		18900		21.1	25.3	<33.0	PASS
		19150		21.4	25.6	<33.0	PASS
10	QPSK	18650	1RB@24	21.4	25.6	<33.0	PASS
		18900		21.4	25.6	<33.0	PASS
		19150		21.5	25.7	<33.0	PASS
10	QPSK	18650	1RB@49	21.1	25.3	<33.0	PASS
		18900		21.1	25.3	<33.0	PASS
		19150		21.1	25.3	<33.0	PASS
10	QPSK	18650	50RB@0	21.0	25.2	<33.0	PASS
		18900		21.4	25.6	<33.0	PASS
		19150		21.4	25.6	<33.0	PASS

10	16QAM	18650	1RB@0	21.0	25.2	<33.0	PASS
		18900		21.4	25.6	<33.0	PASS
		19150		21.0	25.2	<33.0	PASS
10	16QAM	18650	1RB@24	21.1	25.3	<33.0	PASS
		18900		20.9	25.1	<33.0	PASS
		19150		21.2	25.4	<33.0	PASS
10	16QAM	18650	1RB@49	21.1	25.3	<33.0	PASS
		18900		21.3	25.5	<33.0	PASS
		19150		20.9	25.1	<33.0	PASS
10	16QAM	18650	27RB@0	21.4	25.6	<33.0	PASS
		18900		21.4	25.6	<33.0	PASS
		19150		21.3	25.5	<33.0	PASS
15	QPSK	18675	1RB@0	21.0	25.2	<33.0	PASS
		18900		21.2	25.4	<33.0	PASS
		19125		21.2	25.4	<33.0	PASS
15	QPSK	18675	1RB@37	21.5	25.7	<33.0	PASS
		18900		21.0	25.2	<33.0	PASS
		19125		21.2	25.4	<33.0	PASS
15	QPSK	18675	1RB@74	20.9	25.1	<33.0	PASS
		18900		20.9	25.1	<33.0	PASS
		19125		21.0	25.2	<33.0	PASS
15	QPSK	18675	75RB@0	21.1	25.3	<33.0	PASS
		18900		21.0	25.2	<33.0	PASS
		19125		21.0	25.2	<33.0	PASS
15	16QAM	18675	1RB@0	21.3	25.5	<33.0	PASS
		18900		21.0	25.2	<33.0	PASS
		19125		21.3	25.5	<33.0	PASS
15	16QAM	18675	1RB@37	21.0	25.2	<33.0	PASS
		18900		21.3	25.5	<33.0	PASS
		19125		21.2	25.4	<33.0	PASS
15	16QAM	18675	1RB@74	21.4	25.6	<33.0	PASS
		18900		21.1	25.3	<33.0	PASS
		19125		21.2	25.4	<33.0	PASS
15	16QAM	18675	27RB@0	20.9	25.1	<33.0	PASS
		18900		21.1	25.3	<33.0	PASS
		19125		21.0	25.2	<33.0	PASS
20	QPSK	18700	1RB@0	21.2	25.4	<33.0	PASS
		18900		21.3	25.5	<33.0	PASS
		19100		21.2	25.4	<33.0	PASS
20	QPSK	18700	1RB@49	21.5	25.7	<33.0	PASS
		18900		21.1	25.3	<33.0	PASS
		19100		21.2	25.4	<33.0	PASS
20	QPSK	18700	1RB@99	21.3	25.5	<33.0	PASS
		18900		21.0	25.2	<33.0	PASS

		19100		21.1	25.3	<33.0	PASS
20	QPSK	18700	100RB@0	21.4	25.6	<33.0	PASS
		18900		21.4	25.6	<33.0	PASS
		19100		21.4	25.6	<33.0	PASS
		19100		21.4	25.6	<33.0	PASS
20	16QAM	18700	1RB@0	21.5	25.7	<33.0	PASS
		18900		21.1	25.3	<33.0	PASS
		19100		21.1	25.3	<33.0	PASS
		19100		21.1	25.3	<33.0	PASS
20	16QAM	18700	1RB@49	21.1	25.3	<33.0	PASS
		18900		21.0	25.2	<33.0	PASS
		19100		21.4	25.6	<33.0	PASS
		19100		21.4	25.6	<33.0	PASS
20	16QAM	18700	1RB@99	21.4	25.6	<33.0	PASS
		18900		21.0	25.2	<33.0	PASS
		19100		21.4	25.6	<33.0	PASS
		19100		21.4	25.6	<33.0	PASS
20	16QAM	18700	27RB@0	21.0	25.2	<33.0	PASS
		18900		21.1	25.3	<33.0	PASS
		19100		20.9	25.1	<33.0	PASS
		19100		20.9	25.1	<33.0	PASS

Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)

LTE Band 4 Output Power							
Bandwidth (MHz)	Modulation	Channel	RB Configuration	Output Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
1.4	QPSK	19957	1RB@0	21.3	24.1	<30.0	PASS
		20175		21.5	24.3	<30.0	PASS
		20393		21.5	24.3	<30.0	PASS
		20393		21.5	24.3	<30.0	PASS
1.4	QPSK	19957	1RB@2	21.4	24.2	<30.0	PASS
		20175		21.4	24.2	<30.0	PASS
		20393		21.6	24.4	<30.0	PASS
		20393		21.6	24.4	<30.0	PASS
1.4	QPSK	19957	1RB@6	21.4	24.2	<30.0	PASS
		20175		21.6	24.4	<30.0	PASS
		20393		21.4	24.2	<30.0	PASS
		20393		21.4	24.2	<30.0	PASS
1.4	QPSK	19957	6RB@0	21.4	24.2	<30.0	PASS
		20175		21.6	24.4	<30.0	PASS
		20393		21.6	24.4	<30.0	PASS
		20393		21.6	24.4	<30.0	PASS
1.4	16QAM	19957	1RB@0	21.4	24.2	<30.0	PASS
		20175		21.4	24.2	<30.0	PASS
		20393		21.6	24.4	<30.0	PASS
		20393		21.6	24.4	<30.0	PASS
1.4	16QAM	19957	1RB@2	21.5	24.3	<30.0	PASS
		20175		21.3	24.1	<30.0	PASS
		20393		21.5	24.3	<30.0	PASS
		20393		21.5	24.3	<30.0	PASS
1.4	16QAM	19957	1RB@6	21.3	24.1	<30.0	PASS
		20175		21.3	24.1	<30.0	PASS
		20393		21.4	24.2	<30.0	PASS
		20393		21.4	24.2	<30.0	PASS
1.4	16QAM	19957	6RB@0	21.6	24.4	<30.0	PASS
		20175		21.5	24.3	<30.0	PASS
		20393		21.5	24.3	<30.0	PASS
		20393		21.5	24.3	<30.0	PASS

		20393		21.3	24.1	<30.0	PASS
3	QPSK	19965	1RB@0	21.6	24.4	<30.0	PASS
		20175		21.5	24.3	<30.0	PASS
		20385		21.4	24.2	<30.0	PASS
3	QPSK	19965	1RB@7	21.5	24.3	<30.0	PASS
		20175		21.6	24.4	<30.0	PASS
		20385		21.5	24.3	<30.0	PASS
3	QPSK	19965	1RB@14	21.5	24.3	<30.0	PASS
		20175		21.5	24.3	<30.0	PASS
		20385		21.6	24.4	<30.0	PASS
3	QPSK	19965	15RB@0	21.4	24.2	<30.0	PASS
		20175		21.5	24.3	<30.0	PASS
		20385		21.5	24.3	<30.0	PASS
3	16QAM	19965	1RB@0	21.5	24.3	<30.0	PASS
		20175		21.5	24.3	<30.0	PASS
		20385		21.6	24.4	<30.0	PASS
3	16QAM	19965	1RB@7	21.6	24.4	<30.0	PASS
		20175		21.6	24.4	<30.0	PASS
		20385		21.7	24.5	<30.0	PASS
3	16QAM	19965	1RB@14	21.3	24.1	<30.0	PASS
		20175		21.6	24.4	<30.0	PASS
		20385		21.6	24.4	<30.0	PASS
3	16QAM	19965	15RB@0	21.6	24.4	<30.0	PASS
		20175		21.6	24.4	<30.0	PASS
		20385		21.5	24.3	<30.0	PASS
5	QPSK	19975	1RB@0	21.6	24.4	<30.0	PASS
		20175		21.5	24.3	<30.0	PASS
		20375		21.5	24.3	<30.0	PASS
5	QPSK	19975	1RB@12	21.7	24.5	<30.0	PASS
		20175		21.5	24.3	<30.0	PASS
		20375		21.7	24.5	<30.0	PASS
5	QPSK	19975	1RB@24	21.4	24.2	<30.0	PASS
		20175		21.3	24.1	<30.0	PASS
		20375		21.5	24.3	<30.0	PASS
5	QPSK	19975	25RB@0	21.5	24.3	<30.0	PASS
		20175		21.4	24.2	<30.0	PASS
		20375		21.4	24.2	<30.0	PASS
5	16QAM	19975	1RB@0	21.6	24.4	<30.0	PASS
		20175		21.4	24.2	<30.0	PASS
		20375		21.6	24.4	<30.0	PASS
5	16QAM	19975	1RB@12	21.4	24.2	<30.0	PASS
		20175		21.4	24.2	<30.0	PASS
		20375		21.6	24.4	<30.0	PASS
5	16QAM	19975	1RB@24	21.6	24.4	<30.0	PASS

		20175		21.4	24.2	<30.0	PASS
		20375		21.4	24.2	<30.0	PASS
5	16QAM	19975	25RB@0	21.6	24.4	<30.0	PASS
		20175		21.5	24.3	<30.0	PASS
		20375		21.3	24.1	<30.0	PASS
10	QPSK	20000	1RB@0	21.5	24.3	<30.0	PASS
		20175		21.3	24.1	<30.0	PASS
		20350		21.3	24.1	<30.0	PASS
10	QPSK	20000	1RB@24	21.4	24.2	<30.0	PASS
		20175		21.6	24.4	<30.0	PASS
		20350		21.5	24.3	<30.0	PASS
10	QPSK	20000	1RB@49	21.3	24.1	<30.0	PASS
		20175		21.6	24.4	<30.0	PASS
		20350		21.5	24.3	<30.0	PASS
10	QPSK	20000	50RB@0	21.4	24.2	<30.0	PASS
		20175		21.5	24.3	<30.0	PASS
		20350		21.6	24.4	<30.0	PASS
10	16QAM	20000	1RB@0	21.5	24.3	<30.0	PASS
		20175		21.5	24.3	<30.0	PASS
		20350		21.5	24.3	<30.0	PASS
10	16QAM	20000	1RB@24	21.6	24.4	<30.0	PASS
		20175		21.4	24.2	<30.0	PASS
		20350		21.5	24.3	<30.0	PASS
10	16QAM	20000	1RB@49	21.5	24.3	<30.0	PASS
		20175		21.5	24.3	<30.0	PASS
		20350		21.5	24.3	<30.0	PASS
10	16QAM	20000	27RB@0	21.6	24.4	<30.0	PASS
		20175		21.6	24.4	<30.0	PASS
		20350		21.6	24.4	<30.0	PASS
15	QPSK	20025	1RB@0	21.7	24.5	<30.0	PASS
		20175		21.3	24.1	<30.0	PASS
		20325		21.6	24.4	<30.0	PASS
15	QPSK	20025	1RB@37	21.6	24.4	<30.0	PASS
		20175		21.6	24.4	<30.0	PASS
		20325		21.6	24.4	<30.0	PASS
15	QPSK	20025	1RB@74	21.5	24.3	<30.0	PASS
		20175		21.6	24.4	<30.0	PASS
		20325		21.5	24.3	<30.0	PASS
15	QPSK	20025	75RB@0	21.5	24.3	<30.0	PASS
		20175		21.7	24.5	<30.0	PASS
		20325		21.5	24.3	<30.0	PASS
15	16QAM	20025	1RB@0	21.7	24.5	<30.0	PASS
		20175		21.4	24.2	<30.0	PASS
		20325		21.3	24.1	<30.0	PASS

15	16QAM	20025	1RB@37	21.5	24.3	<30.0	PASS
		20175		21.5	24.3	<30.0	PASS
		20325		21.4	24.2	<30.0	PASS
15	16QAM	20025	1RB@74	21.4	24.2	<30.0	PASS
		20175		21.6	24.4	<30.0	PASS
		20325		21.4	24.2	<30.0	PASS
15	16QAM	20025	27RB@0	21.6	24.4	<30.0	PASS
		20175		21.4	24.2	<30.0	PASS
		20325		21.4	24.2	<30.0	PASS
20	QPSK	20050	1RB@0	21.6	24.4	<30.0	PASS
		20175		21.6	24.4	<30.0	PASS
		20300		21.4	24.2	<30.0	PASS
20	QPSK	20050	1RB@49	21.4	24.2	<30.0	PASS
		20175		21.6	24.4	<30.0	PASS
		20300		21.5	24.3	<30.0	PASS
20	QPSK	20050	1RB@99	21.3	24.1	<30.0	PASS
		20175		21.5	24.3	<30.0	PASS
		20300		21.3	24.1	<30.0	PASS
20	QPSK	20050	100RB@0	21.3	24.1	<30.0	PASS
		20175		21.4	24.2	<30.0	PASS
		20300		21.6	24.4	<30.0	PASS
20	16QAM	20050	1RB@0	21.5	24.3	<30.0	PASS
		20175		21.3	24.1	<30.0	PASS
		20300		21.6	24.4	<30.0	PASS
20	16QAM	20050	1RB@49	21.5	24.3	<30.0	PASS
		20175		21.4	24.2	<30.0	PASS
		20300		21.5	24.3	<30.0	PASS
20	16QAM	20050	1RB@99	21.6	24.4	<30.0	PASS
		20175		21.5	24.3	<30.0	PASS
		20300		21.5	24.3	<30.0	PASS
20	16QAM	20050	27RB@0	21.5	24.3	<30.0	PASS
		20175		21.6	24.4	<30.0	PASS
		20300		21.4	24.2	<30.0	PASS

Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)

LTE Band 5 Output Power							
Bandwidth (MHz)	Modulation	Channel	RB Configuration	Output Power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
1.4	QPSK	20407	1RB@0	21.5	22.2	<38.4	PASS
		20525		21.6	22.3	<38.4	PASS
		20643		21.9	22.6	<38.4	PASS
1.4	QPSK	20407	1RB@2	21.2	21.9	<38.4	PASS
		20525		21.7	22.4	<38.4	PASS
		20643		21.3	22.0	<38.4	PASS

1.4	QPSK	20407	1RB@6	21.6	22.3	<38.4	PASS
		20525		21.5	22.2	<38.4	PASS
		20643		21.6	22.3	<38.4	PASS
1.4	QPSK	20407	6RB@0	21.2	21.9	<38.4	PASS
		20525		21.6	22.3	<38.4	PASS
		20643		21.2	21.9	<38.4	PASS
1.4	16QAM	20407	1RB@0	21.5	22.2	<38.4	PASS
		20525		21.3	22.0	<38.4	PASS
		20643		21.6	22.3	<38.4	PASS
1.4	16QAM	20407	1RB@2	21.7	22.4	<38.4	PASS
		20525		21.3	22.0	<38.4	PASS
		20643		21.7	22.4	<38.4	PASS
1.4	16QAM	20407	1RB@6	21.6	22.3	<38.4	PASS
		20525		21.5	22.2	<38.4	PASS
		20643		21.9	22.6	<38.4	PASS
1.4	16QAM	20407	6RB@0	21.2	21.9	<38.4	PASS
		20525		21.7	22.4	<38.4	PASS
		20643		21.7	22.4	<38.4	PASS
3	QPSK	20415	1RB@0	21.3	22.0	<38.4	PASS
		20525		21.5	22.2	<38.4	PASS
		20635		21.5	22.2	<38.4	PASS
3	QPSK	20415	1RB@7	21.1	21.8	<38.4	PASS
		20525		21.8	22.5	<38.4	PASS
		20635		21.3	22.0	<38.4	PASS
3	QPSK	20415	1RB@14	21.6	22.3	<38.4	PASS
		20525		21.9	22.6	<38.4	PASS
		20635		21.5	22.2	<38.4	PASS
3	QPSK	20415	15RB@0	21.8	22.5	<38.4	PASS
		20525		21.1	21.8	<38.4	PASS
		20635		21.4	22.1	<38.4	PASS
3	16QAM	20415	1RB@0	21.4	22.1	<38.4	PASS
		20525		21.7	22.4	<38.4	PASS
		20635		21.7	22.4	<38.4	PASS
3	16QAM	20415	1RB@7	21.4	22.1	<38.4	PASS
		20525		21.5	22.2	<38.4	PASS
		20635		21.6	22.3	<38.4	PASS
3	16QAM	20415	1RB@14	21.2	21.9	<38.4	PASS
		20525		21.5	22.2	<38.4	PASS
		20635		21.3	22.0	<38.4	PASS
3	16QAM	20415	15RB@0	21.3	22.0	<38.4	PASS
		20525		21.5	22.2	<38.4	PASS
		20635		21.3	22.0	<38.4	PASS
5	QPSK	20425	1RB@0	21.3	22.0	<38.4	PASS
		20525		21.1	21.8	<38.4	PASS

		20625		21.3	22.0	<38.4	PASS
5	QPSK	20425	1RB@12	21.8	22.5	<38.4	PASS
		20525		21.9	22.6	<38.4	PASS
		20625		21.7	22.4	<38.4	PASS
		20625		21.7	22.4	<38.4	PASS
5	QPSK	20425	1RB@24	21.4	22.1	<38.4	PASS
		20525		21.5	22.2	<38.4	PASS
		20625		21.7	22.4	<38.4	PASS
		20625		21.7	22.4	<38.4	PASS
5	QPSK	20425	25RB@0	21.5	22.2	<38.4	PASS
		20525		21.6	22.3	<38.4	PASS
		20625		21.9	22.6	<38.4	PASS
		20625		21.9	22.6	<38.4	PASS
5	16QAM	20425	1RB@0	21.2	21.9	<38.4	PASS
		20525		21.7	22.4	<38.4	PASS
		20625		21.3	22.0	<38.4	PASS
		20625		21.3	22.0	<38.4	PASS
5	16QAM	20425	1RB@12	21.6	22.3	<38.4	PASS
		20525		21.5	22.2	<38.4	PASS
		20625		21.6	22.3	<38.4	PASS
		20625		21.6	22.3	<38.4	PASS
5	16QAM	20425	1RB@24	21.2	21.9	<38.4	PASS
		20525		21.6	22.3	<38.4	PASS
		20625		21.2	21.9	<38.4	PASS
		20625		21.2	21.9	<38.4	PASS
5	16QAM	20425	25RB@0	21.5	22.2	<38.4	PASS
		20525		21.3	22.0	<38.4	PASS
		20625		21.6	22.3	<38.4	PASS
		20625		21.6	22.3	<38.4	PASS
10	QPSK	20450	1RB@0	21.7	22.4	<38.4	PASS
		20525		21.3	22.0	<38.4	PASS
		20600		21.7	22.4	<38.4	PASS
		20600		21.7	22.4	<38.4	PASS
10	QPSK	20450	1RB@24	21.6	22.3	<38.4	PASS
		20525		21.5	22.2	<38.4	PASS
		20600		21.9	22.6	<38.4	PASS
		20600		21.9	22.6	<38.4	PASS
10	QPSK	20450	1RB@49	21.2	21.9	<38.4	PASS
		20525		21.7	22.4	<38.4	PASS
		20600		21.7	22.4	<38.4	PASS
		20600		21.7	22.4	<38.4	PASS
10	QPSK	20450	50RB@0	21.3	22.0	<38.4	PASS
		20525		21.5	22.2	<38.4	PASS
		20600		21.5	22.2	<38.4	PASS
		20600		21.5	22.2	<38.4	PASS
10	16QAM	20450	1RB@0	21.1	21.8	<38.4	PASS
		20525		21.8	22.5	<38.4	PASS
		20600		21.3	22.0	<38.4	PASS
		20600		21.3	22.0	<38.4	PASS
10	16QAM	20450	1RB@24	21.6	22.3	<38.4	PASS
		20525		21.9	22.6	<38.4	PASS
		20600		21.5	22.2	<38.4	PASS
		20600		21.5	22.2	<38.4	PASS
10	16QAM	20450	1RB@49	21.8	22.5	<38.4	PASS
		20525		21.1	21.8	<38.4	PASS
		20600		21.4	22.1	<38.4	PASS
		20600		21.4	22.1	<38.4	PASS
10	16QAM	20450	27RB@0	21.4	22.1	<38.4	PASS



		20525		21.7	22.4	<38.4	PASS
		20600		21.7	22.4	<38.4	PASS

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

LTE Band 7 Output Power							
Bandwidth (MHz)	Modulation	Channel	RB Configuration	Output Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
5	QPSK	20775	1RB@0	21.8	24.0	<33.0	PASS
		21100		22.2	24.4	<33.0	PASS
		21425		21.8	24.0	<33.0	PASS
5	QPSK	20775	1RB@12	22.2	24.4	<33.0	PASS
		21100		22.1	24.3	<33.0	PASS
		21425		21.7	23.9	<33.0	PASS
5	QPSK	20775	1RB@24	21.8	24.0	<33.0	PASS
		21100		21.7	23.9	<33.0	PASS
		21425		21.8	24.0	<33.0	PASS
5	QPSK	20775	25RB@0	22.1	24.3	<33.0	PASS
		21100		21.9	24.1	<33.0	PASS
		21425		21.7	23.9	<33.0	PASS
5	16QAM	20775	1RB@0	21.8	24.0	<33.0	PASS
		21100		22.0	24.2	<33.0	PASS
		21425		21.6	23.8	<33.0	PASS
5	16QAM	20775	1RB@12	22.2	24.4	<33.0	PASS
		21100		22.3	24.5	<33.0	PASS
		21425		21.6	23.8	<33.0	PASS
5	16QAM	20775	1RB@24	21.7	23.9	<33.0	PASS
		21100		22.2	24.4	<33.0	PASS
		21425		22.2	24.4	<33.0	PASS
5	16QAM	20775	25RB@0	21.9	24.1	<33.0	PASS
		21100		21.9	24.1	<33.0	PASS
		21425		21.9	24.1	<33.0	PASS
10	QPSK	20800	1RB@0	21.7	23.9	<33.0	PASS
		21100		21.9	24.1	<33.0	PASS
		21400		22.2	24.4	<33.0	PASS
10	QPSK	20800	1RB@24	22.1	24.3	<33.0	PASS
		21100		21.7	23.9	<33.0	PASS
		21400		22.1	24.3	<33.0	PASS
10	QPSK	20800	1RB@49	22.1	24.3	<33.0	PASS
		21100		21.9	24.1	<33.0	PASS
		21400		21.7	23.9	<33.0	PASS
10	QPSK	20800	50RB@0	22.3	24.5	<33.0	PASS
		21100		21.7	23.9	<33.0	PASS
		21400		21.8	24.0	<33.0	PASS
10	16QAM	20800	1RB@0	22.2	24.4	<33.0	PASS

		21100		22.0	24.2	<33.0	PASS
		21400		22.0	24.2	<33.0	PASS
10	16QAM	20800	1RB@24	22.2	24.4	<33.0	PASS
		21100		22.3	24.5	<33.0	PASS
		21400		22.0	24.2	<33.0	PASS
10	16QAM	20800	1RB@49	21.8	24.0	<33.0	PASS
		21100		22.0	24.2	<33.0	PASS
		21400		21.9	24.1	<33.0	PASS
10	16QAM	20800	27RB@0	22.0	24.2	<33.0	PASS
		21100		21.6	23.8	<33.0	PASS
		21400		21.8	24.0	<33.0	PASS
15	QPSK	20825	1RB@0	21.9	24.1	<33.0	PASS
		21100		22.2	24.4	<33.0	PASS
		21375		21.8	24.0	<33.0	PASS
15	QPSK	20825	1RB@37	21.8	24.0	<33.0	PASS
		21100		21.8	24.0	<33.0	PASS
		21375		21.8	24.0	<33.0	PASS
15	QPSK	20825	1RB@74	21.7	23.9	<33.0	PASS
		21100		22.2	24.4	<33.0	PASS
		21375		21.9	24.1	<33.0	PASS
15	QPSK	20825	75RB@0	21.8	24.0	<33.0	PASS
		21100		22.2	24.4	<33.0	PASS
		21375		21.8	24.0	<33.0	PASS
15	16QAM	20825	1RB@0	22.2	24.4	<33.0	PASS
		21100		22.1	24.3	<33.0	PASS
		21375		21.7	23.9	<33.0	PASS
15	16QAM	20825	1RB@37	21.8	24.0	<33.0	PASS
		21100		21.7	23.9	<33.0	PASS
		21375		21.8	24.0	<33.0	PASS
15	16QAM	20825	1RB@74	22.1	24.3	<33.0	PASS
		21100		21.9	24.1	<33.0	PASS
		21375		21.7	23.9	<33.0	PASS
15	16QAM	20825	27RB@0	21.8	24.0	<33.0	PASS
		21100		22.0	24.2	<33.0	PASS
		21375		21.6	23.8	<33.0	PASS
20	QPSK	20850	1RB@0	22.2	24.4	<33.0	PASS
		21100		22.3	24.5	<33.0	PASS
		21350		21.6	23.8	<33.0	PASS
20	QPSK	20850	1RB@49	21.7	23.9	<33.0	PASS
		21100		22.2	24.4	<33.0	PASS
		21350		22.2	24.4	<33.0	PASS
20	QPSK	20850	1RB@99	21.9	24.1	<33.0	PASS
		21100		21.9	24.1	<33.0	PASS
		21350		21.9	24.1	<33.0	PASS

20	QPSK	20850	100RB@0	21.7	23.9	<33.0	PASS
		21100		21.9	24.1	<33.0	PASS
		21350		22.2	24.4	<33.0	PASS
20	16QAM	20850	1RB@0	22.1	24.3	<33.0	PASS
		21100		21.7	23.9	<33.0	PASS
		21350		22.1	24.3	<33.0	PASS
20	16QAM	20850	1RB@49	22.1	24.3	<33.0	PASS
		21100		21.9	24.1	<33.0	PASS
		21350		21.7	23.9	<33.0	PASS
20	16QAM	20850	1RB@99	22.3	24.5	<33.0	PASS
		21100		21.7	23.9	<33.0	PASS
		21350		21.8	24.0	<33.0	PASS
20	16QAM	20850	27RB@0	22.2	24.4	<33.0	PASS
		21100		22.0	24.2	<33.0	PASS
		21350		22.0	24.2	<33.0	PASS

Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)

LTE Band 12 Output Power							
Bandwidth (MHz)	Modulation	Channel	RB Configuration	Output Power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
1.4	QPSK	23017	1RB@0	21.8	21.6	<34.8	PASS
		23095		21.3	21.1	<34.8	PASS
		23173		21.2	21.0	<34.8	PASS
1.4	QPSK	23017	1RB@2	21.2	21.0	<34.8	PASS
		23095		21.4	21.2	<34.8	PASS
		23173		21.9	21.7	<34.8	PASS
1.4	QPSK	23017	1RB@6	21.7	21.5	<34.8	PASS
		23095		21.8	21.6	<34.8	PASS
		23173		21.6	21.4	<34.8	PASS
1.4	QPSK	23017	6RB@0	21.7	21.5	<34.8	PASS
		23095		21.9	21.7	<34.8	PASS
		23173		22.0	21.8	<34.8	PASS
1.4	16QAM	23017	1RB@0	21.3	21.1	<34.8	PASS
		23095		21.2	21.0	<34.8	PASS
		23173		21.3	21.1	<34.8	PASS
1.4	16QAM	23017	1RB@2	21.9	21.7	<34.8	PASS
		23095		21.6	21.4	<34.8	PASS
		23173		21.4	21.2	<34.8	PASS
1.4	16QAM	23017	1RB@6	21.8	21.6	<34.8	PASS
		23095		21.2	21.0	<34.8	PASS
		23173		21.8	21.6	<34.8	PASS
1.4	16QAM	23017	6RB@0	21.5	21.3	<34.8	PASS
		23095		21.9	21.7	<34.8	PASS
		23173		21.4	21.2	<34.8	PASS

3	QPSK	23025	1RB@0	21.4	21.2	<34.8	PASS
		23095		21.7	21.5	<34.8	PASS
		23165		21.4	21.2	<34.8	PASS
3	QPSK	23025	1RB@7	21.8	21.6	<34.8	PASS
		23095		21.6	21.4	<34.8	PASS
		23165		21.2	21.0	<34.8	PASS
3	QPSK	23025	1RB@14	21.8	21.6	<34.8	PASS
		23095		21.7	21.5	<34.8	PASS
		23165		21.9	21.7	<34.8	PASS
3	QPSK	23025	15RB@0	21.5	21.3	<34.8	PASS
		23095		22.0	21.8	<34.8	PASS
		23165		21.4	21.2	<34.8	PASS
3	16QAM	23025	1RB@0	21.2	21.0	<34.8	PASS
		23095		21.4	21.2	<34.8	PASS
		23165		21.3	21.1	<34.8	PASS
3	16QAM	23025	1RB@7	21.5	21.3	<34.8	PASS
		23095		21.6	21.4	<34.8	PASS
		23165		21.3	21.1	<34.8	PASS
3	16QAM	23025	1RB@14	22.0	21.8	<34.8	PASS
		23095		21.5	21.3	<34.8	PASS
		23165		21.4	21.2	<34.8	PASS
3	16QAM	23025	15RB@0	22.0	21.8	<34.8	PASS
		23095		21.7	21.5	<34.8	PASS
		23165		21.7	21.5	<34.8	PASS
5	QPSK	23035	1RB@0	21.4	21.2	<34.8	PASS
		23095		21.5	21.3	<34.8	PASS
		23155		21.3	21.1	<34.8	PASS
5	QPSK	23035	1RB@12	21.6	21.4	<34.8	PASS
		23095		21.5	21.3	<34.8	PASS
		23155		21.4	21.2	<34.8	PASS
5	QPSK	23035	1RB@24	21.8	21.6	<34.8	PASS
		23095		21.5	21.3	<34.8	PASS
		23155		21.8	21.6	<34.8	PASS
5	QPSK	23035	25RB@0	21.3	21.1	<34.8	PASS
		23095		21.2	21.0	<34.8	PASS
		23155		21.2	21.0	<34.8	PASS
5	16QAM	23035	1RB@0	21.4	21.2	<34.8	PASS
		23095		21.9	21.7	<34.8	PASS
		23155		21.7	21.5	<34.8	PASS
5	16QAM	23035	1RB@12	21.8	21.6	<34.8	PASS
		23095		21.6	21.4	<34.8	PASS
		23155		21.7	21.5	<34.8	PASS
5	16QAM	23035	1RB@24	21.9	21.7	<34.8	PASS
		23095		22.0	21.8	<34.8	PASS

		23155		21.3	21.1	<34.8	PASS
5	16QAM	23035	25RB@0	21.2	21.0	<34.8	PASS
		23095		21.3	21.1	<34.8	PASS
		23155		21.9	21.7	<34.8	PASS
10	QPSK	23060	1RB@0	21.6	21.4	<34.8	PASS
		23095		21.4	21.2	<34.8	PASS
		23130		21.8	21.6	<34.8	PASS
10	QPSK	23060	1RB@24	21.2	21.0	<34.8	PASS
		23095		21.8	21.6	<34.8	PASS
		23130		21.5	21.3	<34.8	PASS
10	QPSK	23060	1RB@49	21.9	21.7	<34.8	PASS
		23095		21.4	21.2	<34.8	PASS
		23130		21.4	21.2	<34.8	PASS
10	QPSK	23060	50RB@0	21.7	21.5	<34.8	PASS
		23095		21.4	21.2	<34.8	PASS
		23130		21.8	21.6	<34.8	PASS
10	16QAM	23060	1RB@0	21.6	21.4	<34.8	PASS
		23095		21.2	21.0	<34.8	PASS
		23130		21.8	21.6	<34.8	PASS
10	16QAM	23060	1RB@24	21.7	21.5	<34.8	PASS
		23095		21.9	21.7	<34.8	PASS
		23130		21.5	21.3	<34.8	PASS
10	16QAM	23060	1RB@49	22.0	21.8	<34.8	PASS
		23095		21.4	21.2	<34.8	PASS
		23130		21.2	21.0	<34.8	PASS
10	16QAM	23060	27RB@0	21.4	21.2	<34.8	PASS
		23095		21.3	21.1	<34.8	PASS
		23130		21.5	21.3	<34.8	PASS

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

LTE Band 13 Output Power							
Bandwidth (MHz)	Modulation	Channel	RB Configuration	Output Power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
5	QPSK	23205	1RB@0	21.7	22.1	<34.8	PASS
		23230		21.7	22.1	<34.8	PASS
		23255		21.7	22.1	<34.8	PASS
5	QPSK	23205	1RB@12	21.8	22.2	<34.8	PASS
		23230		22.2	22.6	<34.8	PASS
		23255		22.1	22.5	<34.8	PASS
5	QPSK	23205	1RB@24	22.0	22.4	<34.8	PASS
		23230		22.2	22.6	<34.8	PASS
		23255		22.1	22.5	<34.8	PASS
5	QPSK	23205	25RB@0	22.2	22.6	<34.8	PASS
		23230		21.7	22.1	<34.8	PASS

		23255		22.1	22.5	<34.8	PASS
5	16QAM	23205	1RB@0	22.0	22.4	<34.8	PASS
		23230		21.8	22.2	<34.8	PASS
		23255		21.9	22.3	<34.8	PASS
		23255		21.9	22.3	<34.8	PASS
5	16QAM	23205	1RB@12	22.1	22.5	<34.8	PASS
		23230		22.2	22.6	<34.8	PASS
		23255		21.9	22.3	<34.8	PASS
		23255		21.9	22.3	<34.8	PASS
5	16QAM	23205	1RB@24	21.8	22.2	<34.8	PASS
		23230		21.8	22.2	<34.8	PASS
		23255		22.1	22.5	<34.8	PASS
		23255		22.1	22.5	<34.8	PASS
5	16QAM	23205	25RB@0	21.7	22.1	<34.8	PASS
		23230		22.1	22.5	<34.8	PASS
		23255		22.0	22.4	<34.8	PASS
		23255		22.0	22.4	<34.8	PASS
10	QPSK	23230	1RB@0	21.8	22.2	<34.8	PASS
				21.7	22.1	<34.8	PASS
				22.0	22.4	<34.8	PASS
				22.0	22.4	<34.8	PASS
10	QPSK	23230	1RB@24	21.7	22.1	<34.8	PASS
				22.1	22.5	<34.8	PASS
				21.7	22.1	<34.8	PASS
				21.7	22.1	<34.8	PASS
10	QPSK	23230	1RB@49	21.8	22.2	<34.8	PASS
				21.7	22.1	<34.8	PASS
				21.9	22.3	<34.8	PASS
				21.9	22.3	<34.8	PASS
10	QPSK	23230	50RB@0	22.0	22.4	<34.8	PASS
				22.0	22.4	<34.8	PASS
				22.2	22.6	<34.8	PASS
				22.2	22.6	<34.8	PASS
10	16QAM	23230	1RB@0	21.7	22.1	<34.8	PASS
				22.1	22.5	<34.8	PASS
				22.0	22.4	<34.8	PASS
				22.0	22.4	<34.8	PASS
10	16QAM	23230	1RB@24	22.2	22.6	<34.8	PASS
				22.2	22.6	<34.8	PASS
				22.2	22.6	<34.8	PASS
				22.2	22.6	<34.8	PASS
10	16QAM	23230	1RB@49	21.6	22.0	<34.8	PASS
				21.6	22.0	<34.8	PASS
				21.8	22.2	<34.8	PASS
				21.8	22.2	<34.8	PASS
10	16QAM	23230	27RB@0	21.9	22.3	<34.8	PASS
				21.8	22.2	<34.8	PASS
				22.1	22.5	<34.8	PASS
				22.1	22.5	<34.8	PASS

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

LTE Band 25 Output Power							
Bandwidth (MHz)	Modulation	Channel	RB Configuration	Output Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
1.4	QPSK	26047	1RB@0	21.0	25.2	<33.0	PASS
		26365		21.2	25.4	<33.0	PASS

		26683		21.4	25.6	<33.0	PASS
1.4	QPSK	26047	1RB@2	21.5	25.7	<33.0	PASS
		26365		21.4	25.6	<33.0	PASS
		26683		21.5	25.7	<33.0	PASS
		26683		21.5	25.7	<33.0	PASS
1.4	QPSK	26047	1RB@6	21.7	25.9	<33.0	PASS
		26365		21.3	25.5	<33.0	PASS
		26683		21.5	25.7	<33.0	PASS
		26683		21.5	25.7	<33.0	PASS
1.4	QPSK	26047	6RB@0	21.6	25.8	<33.0	PASS
		26365		21.2	25.4	<33.0	PASS
		26683		21.0	25.2	<33.0	PASS
		26683		21.0	25.2	<33.0	PASS
1.4	16QAM	26047	1RB@0	21.3	25.5	<33.0	PASS
		26365		20.9	25.1	<33.0	PASS
		26683		21.5	25.7	<33.0	PASS
		26683		21.5	25.7	<33.0	PASS
1.4	16QAM	26047	1RB@2	21.3	25.5	<33.0	PASS
		26365		21.4	25.6	<33.0	PASS
		26683		20.9	25.1	<33.0	PASS
		26683		20.9	25.1	<33.0	PASS
1.4	16QAM	26047	1RB@6	21.4	25.6	<33.0	PASS
		26365		21.7	25.9	<33.0	PASS
		26683		21.4	25.6	<33.0	PASS
		26683		21.4	25.6	<33.0	PASS
1.4	16QAM	26047	6RB@0	21.7	25.9	<33.0	PASS
		26365		21.4	25.6	<33.0	PASS
		26683		21.5	25.7	<33.0	PASS
		26683		21.5	25.7	<33.0	PASS
3	QPSK	26055	1RB@0	21.5	25.7	<33.0	PASS
		26365		21.6	25.8	<33.0	PASS
		26675		21.4	25.6	<33.0	PASS
		26675		21.4	25.6	<33.0	PASS
3	QPSK	26055	1RB@7	21.4	25.6	<33.0	PASS
		26365		21.6	25.8	<33.0	PASS
		26675		20.9	25.1	<33.0	PASS
		26675		20.9	25.1	<33.0	PASS
3	QPSK	26055	1RB@14	21.2	25.4	<33.0	PASS
		26365		20.9	25.1	<33.0	PASS
		26675		21.2	25.4	<33.0	PASS
		26675		21.2	25.4	<33.0	PASS
3	QPSK	26055	15RB@0	21.6	25.8	<33.0	PASS
		26365		21.3	25.5	<33.0	PASS
		26675		21.4	25.6	<33.0	PASS
		26675		21.4	25.6	<33.0	PASS
3	16QAM	26055	1RB@0	21.4	25.6	<33.0	PASS
		26365		20.9	25.1	<33.0	PASS
		26675		21.1	25.3	<33.0	PASS
		26675		21.1	25.3	<33.0	PASS
3	16QAM	26055	1RB@7	21.6	25.8	<33.0	PASS
		26365		21.2	25.4	<33.0	PASS
		26675		20.9	25.1	<33.0	PASS
		26675		20.9	25.1	<33.0	PASS
3	16QAM	26055	1RB@14	21.4	25.6	<33.0	PASS
		26365		21.4	25.6	<33.0	PASS
		26675		21.3	25.5	<33.0	PASS
		26675		21.3	25.5	<33.0	PASS
3	16QAM	26055	15RB@0	21.5	25.7	<33.0	PASS

		26365		21.1	25.3	<33.0	PASS
		26675		21.1	25.3	<33.0	PASS
5	QPSK	26065	1RB@0	21.2	25.4	<33.0	PASS
		26365		21.0	25.2	<33.0	PASS
		26665		21.3	25.5	<33.0	PASS
5	QPSK	26065	1RB@12	21.4	25.6	<33.0	PASS
		26365		21.1	25.3	<33.0	PASS
		26665		21.0	25.2	<33.0	PASS
5	QPSK	26065	1RB@24	21.5	25.7	<33.0	PASS
		26365		21.5	25.7	<33.0	PASS
		26665		21.3	25.5	<33.0	PASS
5	QPSK	26065	25RB@0	21.2	25.4	<33.0	PASS
		26365		21.4	25.6	<33.0	PASS
		26665		21.0	25.2	<33.0	PASS
5	16QAM	26065	1RB@0	21.2	25.4	<33.0	PASS
		26365		21.4	25.6	<33.0	PASS
		26665		21.5	25.7	<33.0	PASS
5	16QAM	26065	1RB@12	21.4	25.6	<33.0	PASS
		26365		21.5	25.7	<33.0	PASS
		26665		21.7	25.9	<33.0	PASS
5	16QAM	26065	1RB@24	21.3	25.5	<33.0	PASS
		26365		21.5	25.7	<33.0	PASS
		26665		21.6	25.8	<33.0	PASS
5	16QAM	26065	25RB@0	21.2	25.4	<33.0	PASS
		26365		21.0	25.2	<33.0	PASS
		26665		21.3	25.5	<33.0	PASS
10	QPSK	26090	1RB@0	20.9	25.1	<33.0	PASS
		26365		21.5	25.7	<33.0	PASS
		26640		21.3	25.5	<33.0	PASS
10	QPSK	26090	1RB@24	21.4	25.6	<33.0	PASS
		26365		20.9	25.1	<33.0	PASS
		26640		21.4	25.6	<33.0	PASS
10	QPSK	26090	1RB@49	21.7	25.9	<33.0	PASS
		26365		21.4	25.6	<33.0	PASS
		26640		21.7	25.9	<33.0	PASS
10	QPSK	26090	50RB@0	21.4	25.6	<33.0	PASS
		26365		21.5	25.7	<33.0	PASS
		26640		21.5	25.7	<33.0	PASS
10	16QAM	26090	1RB@0	21.6	25.8	<33.0	PASS
		26365		21.4	25.6	<33.0	PASS
		26640		21.4	25.6	<33.0	PASS
10	16QAM	26090	1RB@24	21.6	25.8	<33.0	PASS
		26365		20.9	25.1	<33.0	PASS
		26640		21.2	25.4	<33.0	PASS



10	16QAM	26090	1RB@49	20.9	25.1	<33.0	PASS
		26365		21.2	25.4	<33.0	PASS
		26640		21.6	25.8	<33.0	PASS
10	16QAM	26090	27RB@0	21.3	25.5	<33.0	PASS
		26365		21.4	25.6	<33.0	PASS
		26640		21.4	25.6	<33.0	PASS
15	QPSK	26115	1RB@0	20.9	25.1	<33.0	PASS
		26365		21.1	25.3	<33.0	PASS
		26615		21.6	25.8	<33.0	PASS
15	QPSK	26115	1RB@37	21.2	25.4	<33.0	PASS
		26365		20.9	25.1	<33.0	PASS
		26615		21.4	25.6	<33.0	PASS
15	QPSK	26115	1RB@74	21.4	25.6	<33.0	PASS
		26365		21.3	25.5	<33.0	PASS
		26615		21.5	25.7	<33.0	PASS
15	QPSK	26115	75RB@0	21.1	25.3	<33.0	PASS
		26365		21.1	25.3	<33.0	PASS
		26615		21.2	25.4	<33.0	PASS
15	16QAM	26115	1RB@0	21.0	25.2	<33.0	PASS
		26365		21.3	25.5	<33.0	PASS
		26615		21.4	25.6	<33.0	PASS
15	16QAM	26115	1RB@37	21.1	25.3	<33.0	PASS
		26365		21.0	25.2	<33.0	PASS
		26615		21.5	25.7	<33.0	PASS
15	16QAM	26115	1RB@74	21.5	25.7	<33.0	PASS
		26365		21.3	25.5	<33.0	PASS
		26615		21.2	25.4	<33.0	PASS
15	16QAM	26115	27RB@0	21.4	25.6	<33.0	PASS
		26365		21.0	25.2	<33.0	PASS
		26615		21.2	25.4	<33.0	PASS
20	QPSK	26140	1RB@0	21.4	25.6	<33.0	PASS
		26365		21.5	25.7	<33.0	PASS
		26590		21.4	25.6	<33.0	PASS
20	QPSK	26140	1RB@49	21.5	25.7	<33.0	PASS
		26365		21.7	25.9	<33.0	PASS
		26590		21.3	25.5	<33.0	PASS
20	QPSK	26140	1RB@99	21.5	25.7	<33.0	PASS
		26365		21.6	25.8	<33.0	PASS
		26590		21.2	25.4	<33.0	PASS
20	QPSK	26140	100RB@0	21.0	25.2	<33.0	PASS
		26365		21.3	25.5	<33.0	PASS
		26590		20.9	25.1	<33.0	PASS
20	16QAM	26140	1RB@0	21.5	25.7	<33.0	PASS
		26365		21.3	25.5	<33.0	PASS

		26590		21.4	25.6	<33.0	PASS
20	16QAM	26140	1RB@49	20.9	25.1	<33.0	PASS
		26365		21.4	25.6	<33.0	PASS
		26590		21.7	25.9	<33.0	PASS
		26140		21.4	25.6	<33.0	PASS
20	16QAM	26365	1RB@99	21.7	25.9	<33.0	PASS
		26590		21.4	25.6	<33.0	PASS
		26140		21.5	25.7	<33.0	PASS
		26365		21.5	25.7	<33.0	PASS
20	16QAM	26590	27RB@0	21.6	25.8	<33.0	PASS
		26140					
		26365					

Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)

LTE Band 26(814-824MHz) Output Power							
Bandwidth (MHz)	Modulation	Channel	RB Configuration	Output Power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
1.4	QPSK	26697	1RB@0	21.5	22.2	<38.4	PASS
		26740		21.9	22.6	<38.4	PASS
		26783		21.9	22.6	<38.4	PASS
1.4	QPSK	26697	1RB@2	21.9	22.6	<38.4	PASS
		26740		21.3	22.0	<38.4	PASS
		26783		21.5	22.2	<38.4	PASS
1.4	QPSK	26697	1RB@6	21.6	22.3	<38.4	PASS
		26740		21.5	22.2	<38.4	PASS
		26783		21.2	21.9	<38.4	PASS
1.4	QPSK	26697	6RB@0	21.9	22.6	<38.4	PASS
		26740		21.6	22.3	<38.4	PASS
		26783		21.7	22.4	<38.4	PASS
1.4	16QAM	26697	1RB@0	21.6	22.3	<38.4	PASS
		26740		21.3	22.0	<38.4	PASS
		26783		21.6	22.3	<38.4	PASS
1.4	16QAM	26697	1RB@2	21.7	22.4	<38.4	PASS
		26740		21.6	22.3	<38.4	PASS
		26783		21.5	22.2	<38.4	PASS
1.4	16QAM	26697	1RB@6	21.4	22.1	<38.4	PASS
		26740		21.9	22.6	<38.4	PASS
		26783		22.0	22.7	<38.4	PASS
1.4	16QAM	26697	6RB@0	21.6	22.3	<38.4	PASS
		26740		21.4	22.1	<38.4	PASS
		26783		21.7	22.4	<38.4	PASS
3	QPSK	26705	1RB@0	21.9	22.6	<38.4	PASS
		26740		21.7	22.4	<38.4	PASS
		26775		21.6	22.3	<38.4	PASS
3	QPSK	26705	1RB@7	21.6	22.3	<38.4	PASS
		26740		21.6	22.3	<38.4	PASS

		26775		21.5	22.2	<38.4	PASS
3	QPSK	26705	1RB@14	21.6	22.3	<38.4	PASS
		26740		21.3	22.0	<38.4	PASS
		26775		21.7	22.4	<38.4	PASS
		26775		21.7	22.4	<38.4	PASS
3	QPSK	26705	15RB@0	21.2	21.9	<38.4	PASS
		26740		21.8	22.5	<38.4	PASS
		26775		21.7	22.4	<38.4	PASS
		26775		21.7	22.4	<38.4	PASS
3	16QAM	26705	1RB@0	21.4	22.1	<38.4	PASS
		26740		21.7	22.4	<38.4	PASS
		26775		21.3	22.0	<38.4	PASS
		26775		21.3	22.0	<38.4	PASS
3	16QAM	26705	1RB@7	21.5	22.2	<38.4	PASS
		26740		21.8	22.5	<38.4	PASS
		26775		21.6	22.3	<38.4	PASS
		26775		21.6	22.3	<38.4	PASS
3	16QAM	26705	1RB@14	21.8	22.5	<38.4	PASS
		26740		21.4	22.1	<38.4	PASS
		26775		21.7	22.4	<38.4	PASS
		26775		21.7	22.4	<38.4	PASS
3	16QAM	26705	15RB@0	21.9	22.6	<38.4	PASS
		26740		21.2	21.9	<38.4	PASS
		26775		21.2	21.9	<38.4	PASS
		26775		21.2	21.9	<38.4	PASS
5	QPSK	26715	1RB@0	21.6	22.3	<38.4	PASS
		26740		21.8	22.5	<38.4	PASS
		26765		21.3	22.0	<38.4	PASS
		26765		21.3	22.0	<38.4	PASS
5	QPSK	26715	1RB@12	21.9	22.6	<38.4	PASS
		26740		21.4	22.1	<38.4	PASS
		26765		21.9	22.6	<38.4	PASS
		26765		21.9	22.6	<38.4	PASS
5	QPSK	26715	1RB@24	21.5	22.2	<38.4	PASS
		26740		21.8	22.5	<38.4	PASS
		26765		21.6	22.3	<38.4	PASS
		26765		21.6	22.3	<38.4	PASS
5	QPSK	26715	25RB@0	21.5	22.2	<38.4	PASS
		26740		21.9	22.6	<38.4	PASS
		26765		21.9	22.6	<38.4	PASS
		26765		21.9	22.6	<38.4	PASS
5	16QAM	26715	1RB@0	21.9	22.6	<38.4	PASS
		26740		21.3	22.0	<38.4	PASS
		26765		21.5	22.2	<38.4	PASS
		26765		21.5	22.2	<38.4	PASS
5	16QAM	26715	1RB@12	21.6	22.3	<38.4	PASS
		26740		21.5	22.2	<38.4	PASS
		26765		21.2	21.9	<38.4	PASS
		26765		21.2	21.9	<38.4	PASS
5	16QAM	26715	1RB@24	21.9	22.6	<38.4	PASS
		26740		21.6	22.3	<38.4	PASS
		26765		21.7	22.4	<38.4	PASS
		26765		21.7	22.4	<38.4	PASS
5	16QAM	26715	25RB@0	21.6	22.3	<38.4	PASS
		26740		21.3	22.0	<38.4	PASS
		26765		21.6	22.3	<38.4	PASS
		26765		21.6	22.3	<38.4	PASS
10	QPSK	26740	1RB@0	21.7	22.4	<38.4	PASS

				21.6	22.3	<38.4	PASS
				21.5	22.2	<38.4	PASS
10	QPSK	26740	1RB@24	21.4	22.1	<38.4	PASS
				21.9	22.6	<38.4	PASS
				22.0	22.7	<38.4	PASS
10	QPSK	26740	1RB@49	21.6	22.3	<38.4	PASS
				21.4	22.1	<38.4	PASS
				21.7	22.4	<38.4	PASS
10	QPSK	26740	50RB@0	21.9	22.6	<38.4	PASS
				21.7	22.4	<38.4	PASS
				21.6	22.3	<38.4	PASS
10	16QAM	26740	1RB@0	21.6	22.3	<38.4	PASS
				21.6	22.3	<38.4	PASS
				21.5	22.2	<38.4	PASS
10	16QAM	26740	1RB@24	21.6	22.3	<38.4	PASS
				21.3	22.0	<38.4	PASS
				21.7	22.4	<38.4	PASS
10	16QAM	26740	1RB@49	21.2	21.9	<38.4	PASS
				21.8	22.5	<38.4	PASS
				21.7	22.4	<38.4	PASS
10	16QAM	26740	27RB@0	21.4	22.1	<38.4	PASS
				21.7	22.4	<38.4	PASS
				21.3	22.0	<38.4	PASS

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

LTE Band 26(824-849MHz) Output Power							
Bandwidth (MHz)	Modulation	Channel	RB Configuration	Output Power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
1.4	QPSK	26797	1RB@0	22.2	22.9	<38.4	PASS
		26915		21.7	22.4	<38.4	PASS
		27033		22.1	22.8	<38.4	PASS
1.4	QPSK	26797	1RB@2	21.6	22.3	<38.4	PASS
		26915		22.2	22.9	<38.4	PASS
		27033		21.8	22.5	<38.4	PASS
1.4	QPSK	26797	1RB@6	21.8	22.5	<38.4	PASS
		26915		21.9	22.6	<38.4	PASS
		27033		22.3	23.0	<38.4	PASS
1.4	QPSK	26797	6RB@0	22.2	22.9	<38.4	PASS
		26915		22.1	22.8	<38.4	PASS
		27033		21.5	22.2	<38.4	PASS
1.4	16QAM	26797	1RB@0	21.8	22.5	<38.4	PASS
		26915		21.6	22.3	<38.4	PASS
		27033		22.0	22.7	<38.4	PASS
1.4	16QAM	26797	1RB@2	22.2	22.9	<38.4	PASS

		26915		22.1	22.8	<38.4	PASS
		27033		21.9	22.6	<38.4	PASS
1.4	16QAM	26797	1RB@6	21.8	22.5	<38.4	PASS
		26915		21.8	22.5	<38.4	PASS
		27033		22.0	22.7	<38.4	PASS
1.4	16QAM	26797	6RB@0	21.9	22.6	<38.4	PASS
		26915		21.9	22.6	<38.4	PASS
		27033		21.6	22.3	<38.4	PASS
3	QPSK	26805	1RB@0	21.9	22.6	<38.4	PASS
		26915		21.4	22.1	<38.4	PASS
		27025		21.9	22.6	<38.4	PASS
3	QPSK	26805	1RB@7	21.5	22.2	<38.4	PASS
		26915		21.6	22.3	<38.4	PASS
		27025		21.8	22.5	<38.4	PASS
3	QPSK	26805	1RB@14	21.9	22.6	<38.4	PASS
		26915		22.0	22.7	<38.4	PASS
		27025		22.1	22.8	<38.4	PASS
3	QPSK	26805	15RB@0	22.2	22.9	<38.4	PASS
		26915		22.1	22.8	<38.4	PASS
		27025		22.3	23.0	<38.4	PASS
3	16QAM	26805	1RB@0	22.3	23.0	<38.4	PASS
		26915		21.6	22.3	<38.4	PASS
		27025		21.7	22.4	<38.4	PASS
3	16QAM	26805	1RB@7	21.7	22.4	<38.4	PASS
		26915		22.3	23.0	<38.4	PASS
		27025		22.3	23.0	<38.4	PASS
3	16QAM	26805	1RB@14	21.6	22.3	<38.4	PASS
		26915		22.1	22.8	<38.4	PASS
		27025		22.2	22.9	<38.4	PASS
3	16QAM	26805	15RB@0	21.5	22.2	<38.4	PASS
		26915		21.5	22.2	<38.4	PASS
		27025		21.9	22.6	<38.4	PASS
5	QPSK	26815	1RB@0	21.7	22.4	<38.4	PASS
		26915		21.8	22.5	<38.4	PASS
		27015		22.0	22.7	<38.4	PASS
5	QPSK	26815	1RB@12	21.9	22.6	<38.4	PASS
		26915		21.6	22.3	<38.4	PASS
		27015		22.0	22.7	<38.4	PASS
5	QPSK	26815	1RB@24	21.9	22.6	<38.4	PASS
		26915		21.6	22.3	<38.4	PASS
		27015		22.2	22.9	<38.4	PASS
5	QPSK	26815	25RB@0	22.2	22.9	<38.4	PASS
		26915		21.7	22.4	<38.4	PASS
		27015		22.1	22.8	<38.4	PASS

5	16QAM	26815	1RB@0	21.6	22.3	<38.4	PASS
		26915		22.2	22.9	<38.4	PASS
		27015		21.8	22.5	<38.4	PASS
5	16QAM	26815	1RB@12	21.8	22.5	<38.4	PASS
		26915		21.9	22.6	<38.4	PASS
		27015		22.3	23.0	<38.4	PASS
5	16QAM	26815	1RB@24	22.2	22.9	<38.4	PASS
		26915		22.1	22.8	<38.4	PASS
		27015		21.5	22.2	<38.4	PASS
5	16QAM	26815	25RB@0	21.8	22.5	<38.4	PASS
		26915		21.6	22.3	<38.4	PASS
		27015		22.0	22.7	<38.4	PASS
10	QPSK	26840	1RB@0	22.2	22.9	<38.4	PASS
		26915		22.1	22.8	<38.4	PASS
		26990		21.9	22.6	<38.4	PASS
10	QPSK	26840	1RB@24	21.8	22.5	<38.4	PASS
		26915		21.8	22.5	<38.4	PASS
		26990		22.0	22.7	<38.4	PASS
10	QPSK	26840	1RB@49	21.9	22.6	<38.4	PASS
		26915		21.9	22.6	<38.4	PASS
		26990		21.6	22.3	<38.4	PASS
10	QPSK	26840	50RB@0	21.9	22.6	<38.4	PASS
		26915		21.4	22.1	<38.4	PASS
		26990		21.9	22.6	<38.4	PASS
10	16QAM	26840	1RB@0	21.5	22.2	<38.4	PASS
		26915		21.6	22.3	<38.4	PASS
		26990		21.8	22.5	<38.4	PASS
10	16QAM	26840	1RB@24	21.9	22.6	<38.4	PASS
		26915		22.0	22.7	<38.4	PASS
		26990		22.1	22.8	<38.4	PASS
10	16QAM	26840	1RB@49	22.2	22.9	<38.4	PASS
		26915		22.1	22.8	<38.4	PASS
		26990		22.3	23.0	<38.4	PASS
10	16QAM	26840	27RB@0	22.3	23.0	<38.4	PASS
		26915		21.6	22.3	<38.4	PASS
		26990		21.7	22.4	<38.4	PASS
15	QPSK	26865	1RB@0	21.7	22.4	<38.4	PASS
		26915		22.3	23.0	<38.4	PASS
		26965		22.3	23.0	<38.4	PASS
15	QPSK	26865	1RB@37	21.6	22.3	<38.4	PASS
		26915		22.1	22.8	<38.4	PASS
		26965		22.2	22.9	<38.4	PASS
15	QPSK	26865	1RB@74	21.5	22.2	<38.4	PASS
		26915		21.5	22.2	<38.4	PASS

		26965		21.9	22.6	<38.4	PASS
15	QPSK	26865	75RB@0	21.7	22.4	<38.4	PASS
		26915		21.8	22.5	<38.4	PASS
		26965		22.0	22.7	<38.4	PASS
		26965		22.0	22.7	<38.4	PASS
15	16QAM	26865	1RB@0	21.9	22.6	<38.4	PASS
		26915		21.6	22.3	<38.4	PASS
		26965		22.0	22.7	<38.4	PASS
		26965		22.0	22.7	<38.4	PASS
15	16QAM	26865	1RB@37	21.9	22.6	<38.4	PASS
		26915		21.6	22.3	<38.4	PASS
		26965		22.2	22.9	<38.4	PASS
		26965		22.2	22.9	<38.4	PASS
15	16QAM	26865	1RB@74	22.2	22.9	<38.4	PASS
		26915		21.7	22.4	<38.4	PASS
		26965		22.1	22.8	<38.4	PASS
		26965		22.1	22.8	<38.4	PASS
15	16QAM	26865	27RB@0	21.6	22.3	<38.4	PASS
		26915		22.2	22.9	<38.4	PASS
		26965		21.8	22.5	<38.4	PASS
		26965		21.8	22.5	<38.4	PASS

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

LTE Band 38 Output Power							
Bandwidth (MHz)	Modulation	Channel	RB Configuration	Output Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
5	QPSK	37775	1RB@0	21.2	23.6	<33.0	PASS
		38000		21.3	23.7	<33.0	PASS
		38225		21.9	24.3	<33.0	PASS
5	QPSK	37775	1RB@12	21.3	23.7	<33.0	PASS
		38000		21.5	23.9	<33.0	PASS
		38225		21.2	23.6	<33.0	PASS
5	QPSK	37775	1RB@24	21.5	23.9	<33.0	PASS
		38000		21.8	24.2	<33.0	PASS
		38225		21.6	24.0	<33.0	PASS
5	QPSK	37775	25RB@0	21.3	23.7	<33.0	PASS
		38000		21.5	23.9	<33.0	PASS
		38225		21.7	24.1	<33.0	PASS
5	16QAM	37775	1RB@0	21.5	23.9	<33.0	PASS
		38000		21.5	23.9	<33.0	PASS
		38225		21.5	23.9	<33.0	PASS
5	16QAM	37775	1RB@12	21.5	23.9	<33.0	PASS
		38000		21.4	23.8	<33.0	PASS
		38225		21.9	24.3	<33.0	PASS
5	16QAM	37775	1RB@24	21.2	23.6	<33.0	PASS
		38000		21.3	23.7	<33.0	PASS
		38225		21.4	23.8	<33.0	PASS
5	16QAM	37775	25RB@0	21.6	24.0	<33.0	PASS
		38000		21.4	23.8	<33.0	PASS

		38225		21.8	24.2	<33.0	PASS
10	QPSK	37800	1RB@0	21.4	23.8	<33.0	PASS
		38000		21.8	24.2	<33.0	PASS
		38200		21.9	24.3	<33.0	PASS
10	QPSK	37800	1RB@24	22.0	24.4	<33.0	PASS
		38000		21.3	23.7	<33.0	PASS
		38200		21.5	23.9	<33.0	PASS
10	QPSK	37800	1RB@49	21.4	23.8	<33.0	PASS
		38000		21.9	24.3	<33.0	PASS
		38200		21.3	23.7	<33.0	PASS
10	QPSK	37800	50RB@0	21.7	24.1	<33.0	PASS
		38000		21.3	23.7	<33.0	PASS
		38200		21.2	23.6	<33.0	PASS
10	16QAM	37800	1RB@0	22.0	24.4	<33.0	PASS
		38000		21.9	24.3	<33.0	PASS
		38200		21.6	24.0	<33.0	PASS
10	16QAM	37800	1RB@24	21.5	23.9	<33.0	PASS
		38000		21.8	24.2	<33.0	PASS
		38200		21.6	24.0	<33.0	PASS
10	16QAM	37800	1RB@49	21.8	24.2	<33.0	PASS
		38000		21.9	24.3	<33.0	PASS
		38200		21.7	24.1	<33.0	PASS
10	16QAM	37800	27RB@0	21.3	23.7	<33.0	PASS
		38000		21.9	24.3	<33.0	PASS
		38200		21.9	24.3	<33.0	PASS
15	QPSK	37825	1RB@0	21.5	23.9	<33.0	PASS
		38000		21.7	24.1	<33.0	PASS
		38175		22.0	24.4	<33.0	PASS
15	QPSK	37825	1RB@37	22.0	24.4	<33.0	PASS
		38000		21.7	24.1	<33.0	PASS
		38175		21.4	23.8	<33.0	PASS
15	QPSK	37825	1RB@74	21.7	24.1	<33.0	PASS
		38000		21.3	23.7	<33.0	PASS
		38175		21.6	24.0	<33.0	PASS
15	QPSK	37825	75RB@0	21.2	23.6	<33.0	PASS
		38000		21.3	23.7	<33.0	PASS
		38175		21.9	24.3	<33.0	PASS
15	16QAM	37825	1RB@0	21.3	23.7	<33.0	PASS
		38000		21.5	23.9	<33.0	PASS
		38175		21.2	23.6	<33.0	PASS
15	16QAM	37825	1RB@37	21.5	23.9	<33.0	PASS
		38000		21.8	24.2	<33.0	PASS
		38175		21.6	24.0	<33.0	PASS
15	16QAM	37825	1RB@74	21.3	23.7	<33.0	PASS

		38000		21.5	23.9	<33.0	PASS
		38175		21.7	24.1	<33.0	PASS
15	16QAM	37825	27RB@0	21.5	23.9	<33.0	PASS
		38000		21.5	23.9	<33.0	PASS
		38175		21.5	23.9	<33.0	PASS
20	QPSK	37850	1RB@0	21.5	23.9	<33.0	PASS
		38000		21.4	23.8	<33.0	PASS
		38150		21.9	24.3	<33.0	PASS
20	QPSK	37850	1RB@49	21.2	23.6	<33.0	PASS
		38000		21.3	23.7	<33.0	PASS
		38150		21.4	23.8	<33.0	PASS
20	QPSK	37850	1RB@99	21.6	24.0	<33.0	PASS
		38000		21.4	23.8	<33.0	PASS
		38150		21.8	24.2	<33.0	PASS
20	QPSK	37850	100RB@0	21.4	23.8	<33.0	PASS
		38000		21.8	24.2	<33.0	PASS
		38150		21.9	24.3	<33.0	PASS
20	16QAM	37850	1RB@0	22.0	24.4	<33.0	PASS
		38000		21.3	23.7	<33.0	PASS
		38150		21.5	23.9	<33.0	PASS
20	16QAM	37850	1RB@49	21.4	23.8	<33.0	PASS
		38000		21.9	24.3	<33.0	PASS
		38150		21.3	23.7	<33.0	PASS
20	16QAM	37850	1RB@99	21.7	24.1	<33.0	PASS
		38000		21.3	23.7	<33.0	PASS
		38150		21.2	23.6	<33.0	PASS
20	16QAM	37850	27RB@0	22.0	24.4	<33.0	PASS
		38000		21.9	24.3	<33.0	PASS
		38150		21.6	24.0	<33.0	PASS

Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)

LTE Band 41 Output Power							
Bandwidth (MHz)	Modulation	Channel	RB Configuration	Output Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
5	QPSK	39675	1RB@0	22.0	24.4	<33.0	PASS
		40620		21.7	24.1	<33.0	PASS
		41565		21.3	23.7	<33.0	PASS
5	QPSK	39675	1RB@12	22.0	24.4	<33.0	PASS
		40620		21.8	24.2	<33.0	PASS
		41565		21.9	24.3	<33.0	PASS
5	QPSK	39675	1RB@24	21.8	24.2	<33.0	PASS
		40620		21.6	24.0	<33.0	PASS
		41565		22.0	24.4	<33.0	PASS
5	QPSK	39675	25RB@0	21.8	24.2	<33.0	PASS

		40620		21.5	23.9	<33.0	PASS
		41565		21.3	23.7	<33.0	PASS
5	16QAM	39675	1RB@0	21.3	23.7	<33.0	PASS
		40620		21.3	23.7	<33.0	PASS
		41565		21.2	23.6	<33.0	PASS
5	16QAM	39675	1RB@12	21.3	23.7	<33.0	PASS
		40620		21.3	23.7	<33.0	PASS
		41565		21.7	24.1	<33.0	PASS
5	16QAM	39675	1RB@24	21.5	23.9	<33.0	PASS
		40620		21.7	24.1	<33.0	PASS
		41565		21.7	24.1	<33.0	PASS
5	16QAM	39675	25RB@0	21.6	24.0	<33.0	PASS
		40620		21.4	23.8	<33.0	PASS
		41565		21.6	24.0	<33.0	PASS
10	QPSK	39700	1RB@0	21.3	23.7	<33.0	PASS
		40620		21.4	23.8	<33.0	PASS
		41540		21.3	23.7	<33.0	PASS
10	QPSK	39700	1RB@24	21.5	23.9	<33.0	PASS
		40620		21.6	24.0	<33.0	PASS
		41540		21.8	24.2	<33.0	PASS
10	QPSK	39700	1RB@49	21.9	24.3	<33.0	PASS
		40620		21.6	24.0	<33.0	PASS
		41540		21.6	24.0	<33.0	PASS
10	QPSK	39700	50RB@0	21.7	24.1	<33.0	PASS
		40620		21.9	24.3	<33.0	PASS
		41540		21.9	24.3	<33.0	PASS
10	16QAM	39700	1RB@0	21.9	24.3	<33.0	PASS
		40620		21.9	24.3	<33.0	PASS
		41540		21.6	24.0	<33.0	PASS
10	16QAM	39700	1RB@24	21.8	24.2	<33.0	PASS
		40620		21.4	23.8	<33.0	PASS
		41540		21.3	23.7	<33.0	PASS
10	16QAM	39700	1RB@49	21.7	24.1	<33.0	PASS
		40620		21.5	23.9	<33.0	PASS
		41540		21.6	24.0	<33.0	PASS
10	16QAM	39700	27RB@0	21.3	23.7	<33.0	PASS
		40620		21.9	24.3	<33.0	PASS
		41540		21.6	24.0	<33.0	PASS
15	QPSK	39725	1RB@0	21.6	24.0	<33.0	PASS
		40620		21.3	23.7	<33.0	PASS
		41515		21.3	23.7	<33.0	PASS
15	QPSK	39725	1RB@37	21.5	23.9	<33.0	PASS
		40620		21.8	24.2	<33.0	PASS
		41515		21.7	24.1	<33.0	PASS

15	QPSK	39725	1RB@74	21.8	24.2	<33.0	PASS
		40620		21.8	24.2	<33.0	PASS
		41515		21.7	24.1	<33.0	PASS
15	QPSK	39725	75RB@0	22.0	24.4	<33.0	PASS
		40620		21.7	24.1	<33.0	PASS
		41515		21.3	23.7	<33.0	PASS
15	16QAM	39725	1RB@0	22.0	24.4	<33.0	PASS
		40620		21.8	24.2	<33.0	PASS
		41515		21.9	24.3	<33.0	PASS
15	16QAM	39725	1RB@37	21.8	24.2	<33.0	PASS
		40620		21.6	24.0	<33.0	PASS
		41515		22.0	24.4	<33.0	PASS
15	16QAM	39725	1RB@74	21.8	24.2	<33.0	PASS
		40620		21.5	23.9	<33.0	PASS
		41515		21.3	23.7	<33.0	PASS
15	16QAM	39725	27RB@0	21.3	23.7	<33.0	PASS
		40620		21.3	23.7	<33.0	PASS
		41515		21.2	23.6	<33.0	PASS
20	QPSK	39750	1RB@0	21.3	23.7	<33.0	PASS
		40620		21.3	23.7	<33.0	PASS
		41490		21.7	24.1	<33.0	PASS
20	QPSK	39750	1RB@49	21.5	23.9	<33.0	PASS
		40620		21.7	24.1	<33.0	PASS
		41490		21.7	24.1	<33.0	PASS
20	QPSK	39750	1RB@99	21.6	24.0	<33.0	PASS
		40620		21.4	23.8	<33.0	PASS
		41490		21.6	24.0	<33.0	PASS
20	QPSK	39750	100RB@0	21.3	23.7	<33.0	PASS
		40620		21.4	23.8	<33.0	PASS
		41490		21.3	23.7	<33.0	PASS
20	16QAM	39750	1RB@0	21.5	23.9	<33.0	PASS
		40620		21.6	24.0	<33.0	PASS
		41490		21.8	24.2	<33.0	PASS
20	16QAM	39750	1RB@49	21.9	24.3	<33.0	PASS
		40620		21.6	24.0	<33.0	PASS
		41490		21.6	24.0	<33.0	PASS
20	16QAM	39750	1RB@99	21.7	24.1	<33.0	PASS
		40620		21.9	24.3	<33.0	PASS
		41490		21.9	24.3	<33.0	PASS
20	16QAM	39750	27RB@0	21.9	24.3	<33.0	PASS
		40620		21.9	24.3	<33.0	PASS
		41490		21.6	24.0	<33.0	PASS

Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)

5.4 Peak to Average Ratio

5.4.1 Test Limit

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

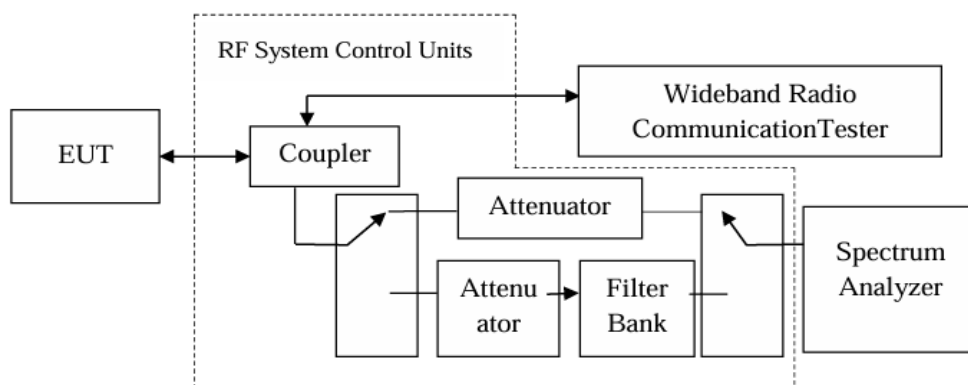
5.4.2 Test Procedure

ANSI C63.26-2015 - Section 5.2.3.4 (CCDF).

5.4.3 Test Setting

1. Set the resolution / measurement bandwidth $\geq$ signal's occupied bandwidth
2. Set the number of counts to a value that stabilizes the measured CCDF curve
3. Record the maximum PARR level associated with a probability of 0.1%

5.4.4 Test Setup



5.4.5 Test Result

Modulation	Bandwidth (MHz)	Band2						
		Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Verdict
QPSK	1.4	18607	1850.7	24.1	21.1	2.3	≤ 13.0	PASS
		18900	1880	24.3	20.7	3.1	≤ 13.0	PASS
		19193	1909.3	24.3	21.2	2.8	≤ 13.0	PASS
	3	18615	1851.5	24.2	21.1	2.5	≤ 13.0	PASS
		18900	1880	24.0	21.3	2.1	≤ 13.0	PASS
		19185	1908.5	24.3	21.3	2.3	≤ 13.0	PASS
	5	18625	1852.5	24.7	21.0	3.2	≤ 13.0	PASS
		18900	1880	24.5	21.2	2.8	≤ 13.0	PASS
		19175	1907.5	24.5	21.0	2.8	≤ 13.0	PASS
	10	18650	1855	24.1	21.0	2.6	≤ 13.0	PASS
		18900	1880	24.7	21.2	3.1	≤ 13.0	PASS
		19150	1905	24.7	20.8	3.3	≤ 13.0	PASS

	15	18675	1857.5	24.2	20.8	2.8	≤13.0	PASS
		18900	1880	24.7	20.7	3.6	≤13.0	PASS
		19125	1902.5	24.0	21.3	2.2	≤13.0	PASS
	20	18700	1860	24.7	21.2	2.9	≤13.0	PASS
		18900	1880	24.4	20.6	3.2	≤13.0	PASS
		19100	1900	24.3	20.6	3.3	≤13.0	PASS
QAM16	1.4	18607	1850.7	24.5	20.0	4.0	≤13.0	PASS
		18900	1880	24.8	19.5	4.8	≤13.0	PASS
		19193	1909.3	24.6	19.9	4.1	≤13.0	PASS
	3	18615	1851.5	24.5	19.9	4.1	≤13.0	PASS
		18900	1880	24.2	19.8	3.7	≤13.0	PASS
		19185	1908.5	24.4	20.1	3.7	≤13.0	PASS
	5	18625	1852.5	24.7	19.4	4.6	≤13.0	PASS
		18900	1880	24.3	19.8	3.8	≤13.0	PASS
		19175	1907.5	24.6	20.0	4.0	≤13.0	PASS
	10	18650	1855	24.8	19.7	4.5	≤13.0	PASS
		18900	1880	24.6	19.6	4.4	≤13.0	PASS
		19150	1905	24.6	19.9	4.2	≤13.0	PASS
	15	18675	1857.5	24.6	19.9	4.2	≤13.0	PASS
		18900	1880	24.4	19.5	4.4	≤13.0	PASS
		19125	1902.5	24.6	19.7	4.5	≤13.0	PASS
	20	18700	1860	24.2	20.0	3.6	≤13.0	PASS
		18900	1880	24.7	19.5	4.8	≤13.0	PASS
		19100	1900	24.1	19.5	3.9	≤13.0	PASS

Modulation	Bandwidth (MHz)	Band4						
		Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Verdict
QPSK	1.4	19957	1710.7	24.2	21.3	2.2	≤13.0	PASS
		20175	1732.5	24.1	21.2	2.4	≤13.0	PASS
		20393	1754.3	24.2	20.8	3.0	≤13.0	PASS
	3	19965	1711.5	24.3	20.8	3.1	≤13.0	PASS
		20175	1732.5	24.5	21.2	2.7	≤13.0	PASS
		20385	1753.5	24.1	20.6	3.0	≤13.0	PASS
	5	19975	1712.5	24.2	21.2	2.5	≤13.0	PASS
		20175	1732.5	24.6	21.3	2.6	≤13.0	PASS

		20375	1752.5	24.3	21.3	2.5	≤13.0	PASS
	10	20000	1715	24.7	20.7	3.4	≤13.0	PASS
		20175	1732.5	24.2	20.7	3.0	≤13.0	PASS
		20350	1750	24.4	21.2	2.6	≤13.0	PASS
	15	20025	1717.5	24.2	21.2	2.4	≤13.0	PASS
		20175	1732.5	24.4	21.1	2.7	≤13.0	PASS
		20325	1747.5	24.7	21.0	3.1	≤13.0	PASS
	20	20050	1720	24.3	20.8	2.8	≤13.0	PASS
		20175	1732.5	24.3	20.6	3.3	≤13.0	PASS
		20300	1745	24.4	21.2	2.7	≤13.0	PASS
QAM16	1.4	19957	1710.7	24.1	19.9	3.5	≤13.0	PASS
		20175	1732.5	24.7	20.1	4.1	≤13.0	PASS
		20393	1754.3	24.7	19.5	4.6	≤13.0	PASS
	3	19965	1711.5	24.8	19.8	4.5	≤13.0	PASS
		20175	1732.5	24.7	19.6	4.6	≤13.0	PASS
		20385	1753.5	24.5	19.8	4.2	≤13.0	PASS
	5	19975	1712.5	24.2	19.6	4.2	≤13.0	PASS
		20175	1732.5	24.0	19.9	3.5	≤13.0	PASS
		20375	1752.5	24.7	19.5	4.7	≤13.0	PASS
	10	20000	1715	24.6	19.8	4.1	≤13.0	PASS
		20175	1732.5	24.5	19.3	4.6	≤13.0	PASS
		20350	1750	24.0	20.0	3.5	≤13.0	PASS
	15	20025	1717.5	24.2	20.0	3.8	≤13.0	PASS
		20175	1732.5	24.2	19.4	4.3	≤13.0	PASS
		20325	1747.5	24.5	19.4	4.4	≤13.0	PASS
	20	20050	1720	24.5	20.0	4.1	≤13.0	PASS
		20175	1732.5	24.5	19.6	4.5	≤13.0	PASS
		20300	1745	24.5	19.6	4.2	≤13.0	PASS

Modulation	Bandwidth (MHz)	Band5						
		Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Verdict
QPSK	1.4	20407	825.7	24.5	20.7	3.3	≤13.0	PASS
		20525	837	24.7	20.9	3.2	≤13.0	PASS
		20643	848.3	24.5	21.3	2.7	≤13.0	PASS
	3	20415	826.5	24.3	20.7	3.0	≤13.0	PASS

		20525	837	24.3	21.4	2.5	≤13.0	PASS
		20635	847.5	24.6	20.6	3.6	≤13.0	PASS
	5	20425	827.5	24.0	20.6	2.9	≤13.0	PASS
		20525	837	24.4	21.2	2.5	≤13.0	PASS
		20625	846.5	24.6	21.0	3.2	≤13.0	PASS
	10	20450	830	24.5	21.1	2.7	≤13.0	PASS
		20525	837	24.5	20.9	3.1	≤13.0	PASS
		20600	844	24.6	20.7	3.3	≤13.0	PASS
QAM16	1.4	20407	825.7	24.5	20.0	3.9	≤13.0	PASS
		20525	837	24.5	19.5	4.3	≤13.0	PASS
		20643	848.3	24.0	19.8	3.8	≤13.0	PASS
	3	20415	826.5	24.6	19.8	4.2	≤13.0	PASS
		20525	837	24.7	19.6	4.5	≤13.0	PASS
		20635	847.5	24.3	19.6	4.1	≤13.0	PASS
	5	20425	827.5	24.4	19.6	4.3	≤13.0	PASS
		20525	837	24.5	19.7	4.4	≤13.0	PASS
		20625	846.5	24.7	19.4	4.7	≤13.0	PASS
	10	20450	830	24.5	20.0	4.1	≤13.0	PASS
		20525	837	24.8	19.8	4.4	≤13.0	PASS
		20600	844	24.4	19.5	4.3	≤13.0	PASS

Modulation	Bandwidth (MHz)	Band7						
		Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Verdict
QPSK	5	20775	2502.5	24.8	20.9	3.2	≤13.0	PASS
		21100	2535	24.4	21.0	3.0	≤13.0	PASS
		21425	2567.5	24.1	20.8	2.6	≤13.0	PASS
	10	20800	2505	24.6	21.1	3.1	≤13.0	PASS
		21100	2535	24.7	21.2	3.0	≤13.0	PASS
		21400	2565	24.2	20.8	2.9	≤13.0	PASS
	15	20825	2507.5	24.6	21.3	2.6	≤13.0	PASS
		21100	2535	24.1	21.4	2.2	≤13.0	PASS
		21375	2562.5	24.2	21.2	2.5	≤13.0	PASS
	20	20850	2510	24.8	20.7	3.5	≤13.0	PASS
		21100	2535	24.7	20.7	3.7	≤13.0	PASS
		21350	2560	24.5	21.1	3.0	≤13.0	PASS

QAM16	5	20775	2502.5	24.6	19.4	4.7	≤13.0	PASS
		21100	2535	24.8	19.3	5.0	≤13.0	PASS
		21425	2567.5	24.4	19.9	3.9	≤13.0	PASS
	10	20800	2505	24.3	20.0	3.9	≤13.0	PASS
		21100	2535	24.8	19.7	4.5	≤13.0	PASS
		21400	2565	24.6	19.6	4.4	≤13.0	PASS
	15	20825	2507.5	24.0	19.9	3.6	≤13.0	PASS
		21100	2535	24.5	19.7	4.2	≤13.0	PASS
		21375	2562.5	24.1	19.4	4.2	≤13.0	PASS
	20	20850	2510	24.3	19.4	4.2	≤13.0	PASS
		21100	2535	24.0	19.7	3.7	≤13.0	PASS
		21350	2560	24.2	19.6	4.2	≤13.0	PASS

Modulation	Bandwidth (MHz)	Band12						
		Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Verdict
QPSK	1.4	23017	699.7	24.5	20.8	3.0	≤13.0	PASS
		23095	707.5	24.4	20.7	3.1	≤13.0	PASS
		23173	715.3	24.4	21.1	2.8	≤13.0	PASS
	3	23025	700.5	24.3	20.9	2.9	≤13.0	PASS
		23095	707.5	24.3	21.2	2.6	≤13.0	PASS
		23165	714.5	24.5	21.3	2.7	≤13.0	PASS
	5	23035	701.5	24.6	21.2	2.9	≤13.0	PASS
		23095	707.5	24.0	20.6	2.9	≤13.0	PASS
		23155	713.5	24.4	21.3	2.5	≤13.0	PASS
	10	23060	704	24.7	20.8	3.1	≤13.0	PASS
		23095	707.5	24.2	20.6	3.0	≤13.0	PASS
		23130	711	24.1	21.2	2.4	≤13.0	PASS
QAM16	1.4	23017	699.7	24.3	20.1	3.6	≤13.0	PASS
		23095	707.5	24.1	19.5	4.1	≤13.0	PASS
		23173	715.3	24.0	19.4	4.1	≤13.0	PASS
	3	23025	700.5	24.4	19.5	4.3	≤13.0	PASS
		23095	707.5	24.8	19.4	4.9	≤13.0	PASS
		23165	714.5	24.1	20.0	3.5	≤13.0	PASS
	5	23035	701.5	24.5	20.0	3.9	≤13.0	PASS
		23095	707.5	24.0	19.4	4.2	≤13.0	PASS

	10	23155	713.5	24.7	19.8	4.3	≤13.0	PASS
		23060	704	24.7	20.0	4.0	≤13.0	PASS
		23095	707.5	24.1	19.7	3.7	≤13.0	PASS
		23130	711	24.6	19.8	4.4	≤13.0	PASS

Modulation	Bandwidth (MHz)	Band13						
		Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Verdict
QPSK	5	23205	779.5	24.1	20.7	3.0	≤13.0	PASS
		23230	782	24.2	21.3	2.4	≤13.0	PASS
		23255	784.5	24.7	21.1	3.0	≤13.0	PASS
	10	23230	782	24.2	21.2	2.4	≤13.0	PASS
QAM16	5	23205	779.5	24.8	19.8	4.6	≤13.0	PASS
		23230	782	24.4	19.6	4.2	≤13.0	PASS
		23255	784.5	24.4	19.7	4.1	≤13.0	PASS
	10	23230	782	24.4	19.3	4.4	≤13.0	PASS

Modulation	Bandwidth (MHz)	Band25						
		Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Verdict
QPSK	1.4	26047	1850.7	24.2	20.7	2.9	≤13.0	PASS
		26365	1882.5	24.7	21.2	3.0	≤13.0	PASS
		26683	1914.3	24.6	21.2	2.9	≤13.0	PASS
	3	26055	1851.5	24.4	21.1	2.8	≤13.0	PASS
		26365	1882.5	24.5	20.9	3.1	≤13.0	PASS
		26675	1913.5	24.6	21.3	2.8	≤13.0	PASS
	5	26065	1852.5	24.1	20.6	2.9	≤13.0	PASS
		26365	1882.5	24.6	20.7	3.4	≤13.0	PASS
		26665	1912.5	24.4	21.1	2.8	≤13.0	PASS
	10	26090	1855	24.1	20.7	2.7	≤13.0	PASS
		26365	1882.5	24.3	21.0	2.8	≤13.0	PASS
		26640	1910	24.2	21.3	2.5	≤13.0	PASS
	15	26115	1857.5	24.1	20.8	2.7	≤13.0	PASS
		26365	1882.5	24.7	20.8	3.4	≤13.0	PASS
		26615	1907.5	24.3	21.0	2.7	≤13.0	PASS
	20	26140	1860	24.0	21.3	2.3	≤13.0	PASS

		26365	1882.5	24.7	20.7	3.4	≤13.0	PASS
		26590	1905	24.0	21.4	2.2	≤13.0	PASS
QAM16	1.4	26047	1850.7	24.6	19.6	4.5	≤13.0	PASS
		26365	1882.5	24.6	19.8	4.1	≤13.0	PASS
		26683	1914.3	24.2	19.7	4.0	≤13.0	PASS
	3	26055	1851.5	24.3	20.1	3.8	≤13.0	PASS
		26365	1882.5	24.8	19.4	4.9	≤13.0	PASS
		26675	1913.5	24.3	19.5	4.4	≤13.0	PASS
	5	26065	1852.5	24.1	19.5	4.2	≤13.0	PASS
		26365	1882.5	24.2	19.6	3.9	≤13.0	PASS
		26665	1912.5	24.5	19.7	4.2	≤13.0	PASS
	10	26090	1855	24.7	19.7	4.4	≤13.0	PASS
		26365	1882.5	24.1	19.4	4.2	≤13.0	PASS
		26640	1910	24.1	19.5	4.0	≤13.0	PASS
	15	26115	1857.5	24.5	19.5	4.2	≤13.0	PASS
		26365	1882.5	24.3	19.4	4.2	≤13.0	PASS
		26615	1907.5	24.2	19.5	4.3	≤13.0	PASS
	20	26140	1860	24.3	19.5	4.3	≤13.0	PASS
		26365	1882.5	24.8	19.5	4.8	≤13.0	PASS
		26590	1905	24.2	19.9	3.8	≤13.0	PASS

Modulation	Bandwidth (MHz)	Band26(814-824MHz)						
		Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Verdict
QPSK	1.4	26697	814.7	24.6	21.3	2.8	≤13.0	PASS
		26740	819	24.7	21.0	3.3	≤13.0	PASS
		26783	823.3	24.6	21.3	2.6	≤13.0	PASS
	3	26705	815.5	24.1	21.2	2.4	≤13.0	PASS
		26740	819	24.1	21.3	2.3	≤13.0	PASS
		26775	822.5	24.1	21.3	2.2	≤13.0	PASS
	5	26715	816.5	24.4	20.9	3.0	≤13.0	PASS
		26740	819	24.7	21.4	2.9	≤13.0	PASS
		26765	821.5	24.7	20.7	3.5	≤13.0	PASS
	10	26740	819	24.1	20.7	2.9	≤13.0	PASS
QAM16	1.4	26697	814.7	24.7	19.8	4.5	≤13.0	PASS
		26740	819	24.5	19.6	4.2	≤13.0	PASS

	3	26783	823.3	24.7	19.9	4.2	≤13.0	PASS
		26705	815.5	24.2	19.6	4.0	≤13.0	PASS
		26740	819	24.7	19.9	4.2	≤13.0	PASS
		26775	822.5	24.6	19.4	4.5	≤13.0	PASS
	5	26715	816.5	24.8	19.3	4.8	≤13.0	PASS
		26740	819	24.7	20.0	4.1	≤13.0	PASS
		26765	821.5	24.4	19.9	3.9	≤13.0	PASS
	10	26740	819	24.1	19.3	4.1	≤13.0	PASS

Modulation	Bandwidth (MHz)	Band26(824-849MHz)						
		Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Verdict
QPSK	1.4	26797	824.7	24.7	21.3	2.9	≤13.0	PASS
		26915	836.5	24.5	21.4	2.7	≤13.0	PASS
		27033	848.3	24.2	21.4	2.3	≤13.0	PASS
	3	26805	825.5	24.4	20.9	3.0	≤13.0	PASS
		26915	836.5	24.7	20.8	3.3	≤13.0	PASS
		27025	847.5	24.4	21.3	2.5	≤13.0	PASS
	5	26815	826.5	24.6	21.2	2.7	≤13.0	PASS
		26915	836.5	24.1	21.0	2.4	≤13.0	PASS
		27015	846.5	24.1	20.7	2.8	≤13.0	PASS
	10	26840	829	24.6	20.8	3.1	≤13.0	PASS
		26915	836.5	24.3	20.7	3.1	≤13.0	PASS
		26990	844	24.4	20.9	3.0	≤13.0	PASS
	15	26865	831.5	24.1	20.7	2.8	≤13.0	PASS
		26915	836.5	24.2	20.9	2.6	≤13.0	PASS
		26965	841.5	24.6	21.2	2.9	≤13.0	PASS
QAM16	1.4	26797	824.7	24.3	19.5	4.2	≤13.0	PASS
		26915	836.5	24.4	19.7	4.1	≤13.0	PASS
		27033	848.3	24.7	19.4	4.7	≤13.0	PASS
	3	26805	825.5	24.2	20.0	3.6	≤13.0	PASS
		26915	836.5	24.4	19.4	4.5	≤13.0	PASS
		27025	847.5	24.0	19.6	4.0	≤13.0	PASS
	5	26815	826.5	24.7	19.4	4.9	≤13.0	PASS
		26915	836.5	24.1	19.8	3.8	≤13.0	PASS
		27015	846.5	24.8	19.4	5.0	≤13.0	PASS



	10	26840	829	24.8	19.8	4.3	≤13.0	PASS
		26915	836.5	24.2	20.1	3.7	≤13.0	PASS
		26990	844	24.7	19.9	4.2	≤13.0	PASS
	15	26865	831.5	24.5	19.6	4.2	≤13.0	PASS
		26915	836.5	24.4	19.5	4.5	≤13.0	PASS
		26965	841.5	24.3	19.5	4.2	≤13.0	PASS

Modulation	Bandwidth (MHz)	Band38						
		Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Verdict
QPSK	5	37775	2572.5	24.4	20.8	3.2	≤13.0	PASS
		38000	2595	24.7	21.2	3.1	≤13.0	PASS
		38225	2617.5	24.5	21.0	3.0	≤13.0	PASS
	10	37800	2575	24.6	21.1	3.0	≤13.0	PASS
		38000	2595	24.7	21.1	3.0	≤13.0	PASS
		38200	2615	24.3	20.6	3.1	≤13.0	PASS
	15	37825	2577.5	24.5	21.1	3.0	≤13.0	PASS
		38000	2595	24.8	21.4	2.9	≤13.0	PASS
		38175	2612.5	24.7	21.1	3.1	≤13.0	PASS
	20	37850	2580	24.3	20.6	3.2	≤13.0	PASS
		38000	2595	24.1	21.0	2.6	≤13.0	PASS
		38150	2610	24.0	21.2	2.3	≤13.0	PASS
QAM16	5	37775	2572.5	24.1	19.7	4.0	≤13.0	PASS
		38000	2595	24.7	19.8	4.4	≤13.0	PASS
		38225	2617.5	24.0	20.1	3.6	≤13.0	PASS
	10	37800	2575	24.1	19.8	3.7	≤13.0	PASS
		38000	2595	24.1	19.3	4.3	≤13.0	PASS
		38200	2615	24.7	19.5	4.7	≤13.0	PASS
	15	37825	2577.5	24.4	19.5	4.3	≤13.0	PASS
		38000	2595	24.3	19.7	4.1	≤13.0	PASS
		38175	2612.5	24.4	19.7	4.2	≤13.0	PASS
	20	37850	2580	24.4	19.7	4.2	≤13.0	PASS
		38000	2595	24.4	19.3	4.5	≤13.0	PASS
		38150	2610	24.4	19.8	4.0	≤13.0	PASS

Modulation	Bandwidth	Band41						
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	(MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Verdict
QPSK	5	39675	2498.5	24.6	20.8	3.2	≤13.0	PASS
		40620	2593	24.1	20.8	2.7	≤13.0	PASS
		41565	2687.5	24.7	21.0	3.0	≤13.0	PASS
	10	39700	2501	24.4	21.2	2.8	≤13.0	PASS
		40620	2593	24.7	21.1	2.9	≤13.0	PASS
		41540	2685	24.8	21.2	3.0	≤13.0	PASS
	15	39725	2503.5	24.6	20.9	3.2	≤13.0	PASS
		40620	2593	24.4	21.1	2.8	≤13.0	PASS
		41515	2682.5	24.1	20.9	2.6	≤13.0	PASS
	20	39750	2506	24.7	20.9	3.4	≤13.0	PASS
		40620	2593	24.4	21.2	2.8	≤13.0	PASS
		41490	2680	24.4	21.3	2.5	≤13.0	PASS
QAM16	5	39675	2498.5	24.0	19.7	3.8	≤13.0	PASS
		40620	2593	24.7	20.0	4.1	≤13.0	PASS
		41565	2687.5	24.2	19.4	4.4	≤13.0	PASS
	10	39700	2501	24.1	19.3	4.4	≤13.0	PASS
		40620	2593	24.1	20.0	3.7	≤13.0	PASS
		41540	2685	24.3	20.0	3.8	≤13.0	PASS
	15	39725	2503.5	24.6	19.6	4.3	≤13.0	PASS
		40620	2593	24.6	19.6	4.3	≤13.0	PASS
		41515	2682.5	24.4	19.7	4.2	≤13.0	PASS
	20	39750	2506	24.2	20.1	3.4	≤13.0	PASS
		40620	2593	24.8	19.5	4.9	≤13.0	PASS
		41490	2680	24.7	19.9	4.2	≤13.0	PASS

5.5 Band Edge

5.5.1 Test Limit

22.917(a), 24.238 (a), 27.53 (g) (h) ,90.691(a)

For operations in the 824 ~ 849 MHz, 1850 ~ 1910 MHz, 1930 ~ 1990 MHz, 600MHz & 698 ~ 746 MHz ,1710 ~ 1755 MHz and 806~ 824 MHz,the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB (The emission limit equal to -13dBm) below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (c)

For operations in the 776-788 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB (The emission limit equal to -13dBm) below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 Hz shall be attenuated below the transmitter power, P (dBW), by at least $65 + 10 \log_{10} (P[\text{Watts}])$, dB, for mobile and portable equipment.

27.53(m)(4)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

5.5.2 Test Procedure

ANSI C63.26-2015 - Section 5.7

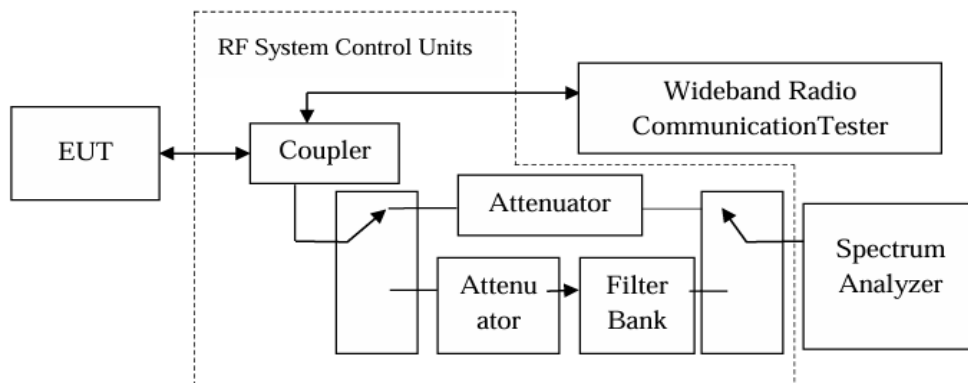
5.5.3 Test Setting

1. Set the analyzer frequency to low or high channel
2. $RBW \geq$ The nominal RBW shall be in the range of 1% of the anticipated OBW (in the 1MHz band immediately outside and adjacent to the band edge). For improvement of the accuracy in the measurement of the average power of a noise-like emission, a RBW narrower than the specified reference bandwidth can be used (generally limited to no less than 1% of the OBW), provided that a subsequent integration is performed over the full required measurement bandwidth. This integration should be performed using the spectrum analyzer's band power functions.
3. $VBW \geq 3*RBW$
4. Sweep time = auto
5. Detector = power averaging (rms)
6. Set sweep trigger to "free run."
7. User gate triggered such that the analyzer only sweeps when the device is transmitting at full power.
8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple.

To accurately determine the average power over the on and off time of the transmitter, it can be

necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time.

5.5.4 Test Setup



5.5.5 Test Result

Note: Test chart See Appendix C

5.6 Conducted Spurious Emission

5.6.1 Test Limit

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum power, and at the appropriate frequencies.

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 emission limit equal to -13dBm.

For Band 7, 38/41 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 $55 + 10 \log(P)$ dB. The emission limit equal to -25dBm.

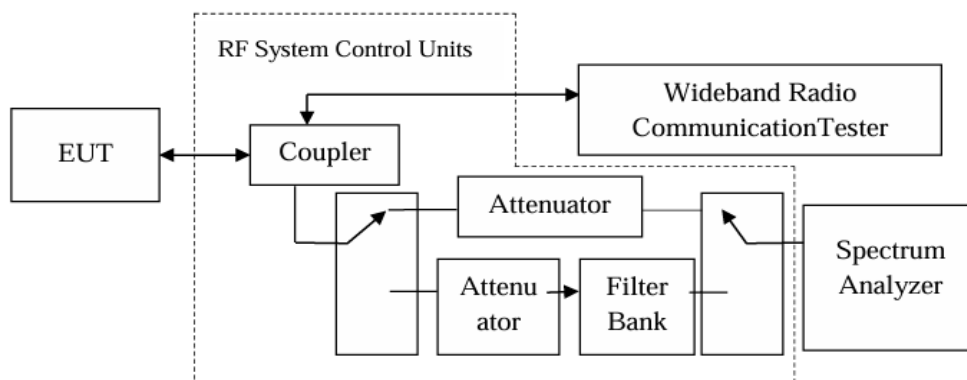
5.6.2 Test Procedure

ANSI C63.26-2015 - Section 5.7

5.6.3 Test Setting

1. Set the analyzer frequency to low, mid, high channel.
2. RBW = 1MHz
3. VBW $\geq 3 \times$ RBW
4. Sweep time = auto
5. Detector = power averaging (rms)
6. Set sweep trigger to "free run."
7. User gate triggered such that the analyzer only sweeps when the device is transmitting at full power.
8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple.
To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time.

5.6.4 Test Setup



5.6.5 Test Result

Note: Test chart See Appendix D

5.7 Radiated Spurious Emission

5.7.1 Test Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm.

For Band 7, 38/41, 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 $55 + 10 \log(P)$ dB. The emission limit equal to -25dBm.

For LTE Band 13, For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz (-40dBm/MHz) equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW (-50dBm) EIRP for discrete emissions of less than 700 Hz bandwidth.

$E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20 \log D + 104.8$; where D is the measurement distance in meters.
The emission limit equal to 82.3dBμV/m or 70.3dBμV/m.

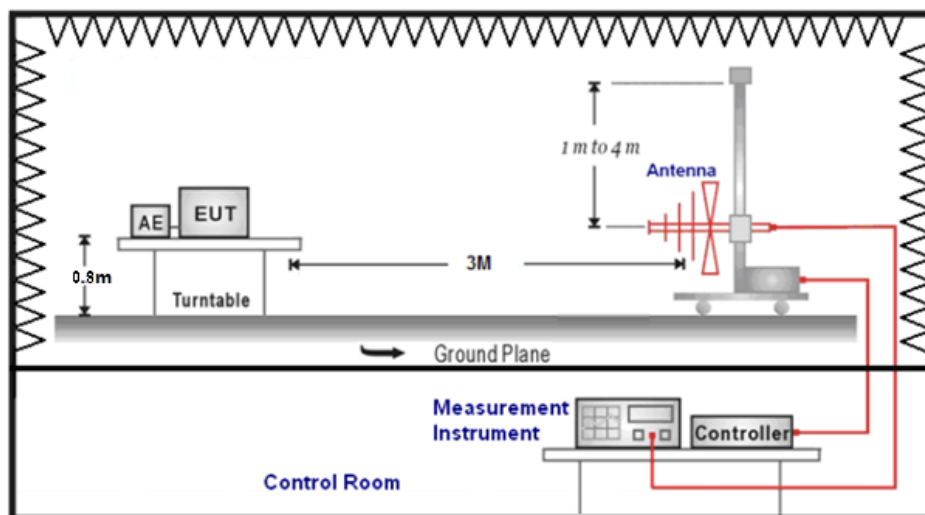
5.7.2 Test Procedure

ANSI C63.26-2015 - Section 5.2.7 & 5.5

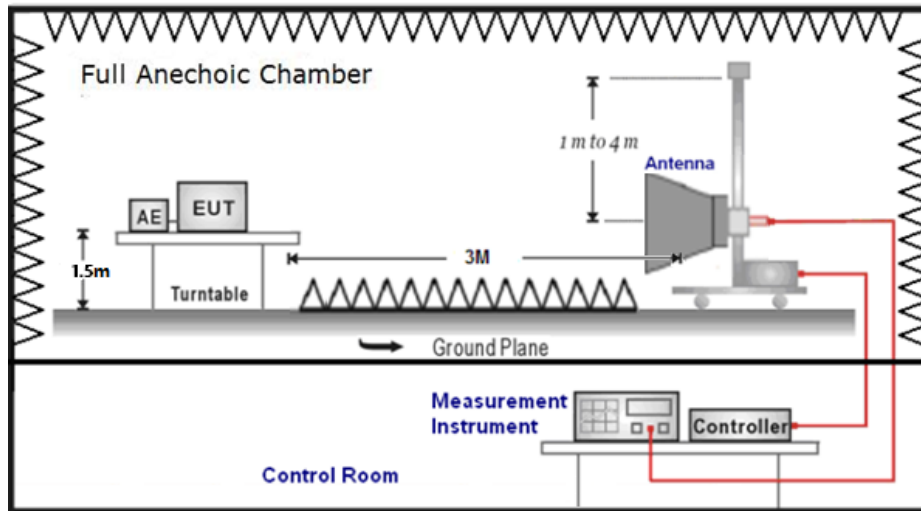
5.7.3 Test Setting

1. RBW = 1MHz
2. VBW $\geq 3 \times$ RBW
3. Sweep time $\geq 10 \times$ (number of points in sweep) $\times$ (transmission symbol period)
4. Detector = Peak
5. Trace mode = max hold
6. The trace was allowed to stabilize

5.7.4 Test Setup



30M~1G Test Setup Figure



Above 1G Test Setup Figure

5.6.5 Test Result

Note: Test chart See Appendix E

LTE B2 Radiated Spurious Emission						
Freq.[MHz]	Level[dBm]	Limit[dBm]	Margin[dB]	Polarity	Detector	Verdict
332.058	-53.88	-13	40.88	Horizontal	PK	PASS
489.974	-48.97	-13	35.97	Horizontal	PK	PASS
953.634	-40.01	-13	27.01	Horizontal	PK	PASS
5641.5	-41.57	-13	28.57	Horizontal	PK	PASS
7524	-41.09	-13	28.09	Horizontal	PK	PASS
12859.5	-40.67	-13	27.67	Horizontal	PK	PASS

LTE B2 Radiated Spurious Emission						
Freq.[MHz]	Level[dBm]	Limit[dBm]	Margin[dB]	Polarity	Detector	Verdict
530.52	-49.34	-13	36.34	Vertical	PK	PASS
981.57	-40.48	-13	27.48	Vertical	PK	PASS
3760.5	-47.85	-13	34.85	Vertical	PK	PASS
5641.5	-41.08	-13	28.08	Vertical	PK	PASS
7519.5	-37.17	-13	24.17	Vertical	PK	PASS
9393	-38.76	-13	25.76	Vertical	PK	PASS

LTE B4 Radiated Spurious Emission						
Freq.[MHz]	Level[dBm]	Limit[dBm]	Margin[dB]	Polarity	Detector	Verdict
259.114	-54.9	-13	41.9	Horizontal	PK	PASS
540.996	-49.19	-13	36.19	Horizontal	PK	PASS
955.283	-39.92	-13	26.92	Horizontal	PK	PASS
6930	-45.08	-13	32.08	Horizontal	PK	PASS
12177	-40.72	-13	27.72	Horizontal	PK	PASS
16021.5	-33.43	-13	20.43	Horizontal	PK	PASS

LTE B4 Radiated Spurious Emission						
Freq.[MHz]	Level[dBm]	Limit[dBm]	Margin[dB]	Polarity	Detector	Verdict
815.991	-42.74	-13	29.74	Vertical	PK	PASS
965.565	-41.07	-13	28.07	Vertical	PK	PASS
1356.6	-39.72	-13	26.72	Vertical	PK	PASS
5197.5	-46.24	-13	33.24	Vertical	PK	PASS
6930	-43.02	-13	30.02	Vertical	PK	PASS
8665.5	-40.31	-13	27.31	Vertical	PK	PASS

LTE B5 Radiated Spurious Emission						
Freq.[MHz]	Level[dBm]	Limit[dBm]	Margin[dB]	Polarity	Detector	Verdict
337.975	-53.57	-13	40.57	Horizontal	PK	PASS
466.403	-49.01	-13	36.01	Horizontal	PK	PASS
1657.217	-32.36	-13	19.36	Horizontal	PK	PASS
2488.333	-49.55	-13	36.55	Horizontal	PK	PASS
4150.567	-45.81	-13	32.81	Horizontal	PK	PASS
4977.767	-42.82	-13	29.82	Horizontal	PK	PASS

LTE B5 Radiated Spurious Emission						
Freq.[MHz]	Level[dBm]	Limit[dBm]	Margin[dB]	Polarity	Detector	Verdict
262.024	-54.65	-13	41.65	Vertical	PK	PASS
489.101	-49.92	-13	36.92	Vertical	PK	PASS
1659.567	-33.52	-13	20.52	Vertical	PK	PASS
3320.233	-46.57	-13	33.57	Vertical	PK	PASS
4150.567	-43.72	-13	30.72	Vertical	PK	PASS
5138.35	-43.74	-13	30.74	Vertical	PK	PASS

LTE B7 Radiated Spurious Emission						
Freq.[MHz]	Level[dBm]	Limit[dBm]	Margin[dB]	Polarity	Detector	Verdict
343.698	-53.11	-25	40.11	Horizontal	PK	PASS
529.065	-49.6	-25	36.6	Horizontal	PK	PASS
977.593	-40.56	-25	27.56	Horizontal	PK	PASS
5067	-43.45	-25	30.45	Horizontal	PK	PASS
7600.5	-44.68	-25	31.68	Horizontal	PK	PASS
11814	-40.5	-25	27.5	Horizontal	PK	PASS

LTE B7 Radiated Spurious Emission						
Freq.[MHz]	Level[dBm]	Limit[dBm]	Margin[dB]	Polarity	Detector	Verdict
347.772	-52.47	-25	39.47	Vertical	PK	PASS
697.069	-45.98	-25	32.98	Vertical	PK	PASS
961.879	-40.79	-25	27.79	Vertical	PK	PASS
5070	-41.82	-25	28.82	Vertical	PK	PASS
7605	-40.91	-25	27.91	Vertical	PK	PASS
10135.5	-38.24	-25	25.24	Vertical	PK	PASS

LTE B12 Radiated Spurious Emission						
Freq.[MHz]	Level[dBm]	Limit[dBm]	Margin[dB]	Polarity	Detector	Verdict
291.9	-54.11	-13	41.11	Horizontal	PK	PASS
456.897	-49.64	-13	36.64	Horizontal	PK	PASS
1414.383	-37.09	-13	24.09	Horizontal	PK	PASS
2122.517	-50.87	-13	37.87	Horizontal	PK	PASS
3583.433	-50.01	-13	37.01	Horizontal	PK	PASS
5171.25	-43.62	-13	30.62	Horizontal	PK	PASS

LTE B12 Radiated Spurious Emission						
Freq.[MHz]	Level[dBm]	Limit[dBm]	Margin[dB]	Polarity	Detector	Verdict
253.294	-55.32	-13	42.32	Vertical	PK	PASS
485.706	-49.25	-13	36.25	Vertical	PK	PASS
1418.3	-37.17	-13	24.17	Vertical	PK	PASS
2454.65	-50.29	-13	37.29	Vertical	PK	PASS
3145.55	-50.01	-13	37.01	Vertical	PK	PASS
5226.867	-43.41	-13	30.41	Vertical	PK	PASS

LTE B13 Radiated Spurious Emission						
Freq.[MHz]	Level[dBm]	Limit[dBm]	Margin[dB]	Polarity	Detector	Verdict
178.701	-59.03	-13	46.03	Horizontal	PK	PASS
256.01	-55.54	-13	42.54	Horizontal	PK	PASS
469.119	-49.8	-13	36.8	Horizontal	PK	PASS
1561.65	-43.21	-40	3.21	Horizontal	PK	PASS
2184.4	-50.78	-13	37.78	Horizontal	PK	PASS
5308.333	-43.56	-13	30.56	Horizontal	PK	PASS

LTE B13 Radiated Spurious Emission						
Freq.[MHz]	Level[dBm]	Limit[dBm]	Margin[dB]	Polarity	Detector	Verdict
172.202	-58.39	-13	45.39	Vertical	PK	PASS
253.197	-54.52	-13	41.52	Vertical	PK	PASS
486.482	-49.26	-13	36.26	Vertical	PK	PASS
2189.1	-59.75	-13	46.75	Vertical	PK	PASS
3563.067	-56.31	-13	43.31	Vertical	PK	PASS
5173.6	-49.62	-13	36.62	Vertical	PK	PASS

LTE B25 Radiated Spurious Emission						
Freq.[MHz]	Level[dBm]	Limit[dBm]	Margin[dB]	Polarity	Detector	Verdict
469.119	-49.72	-13	36.72	Horizontal	PK	PASS
953.44	-40.74	-13	27.74	Horizontal	PK	PASS
1328.6	-40.28	-13	27.28	Horizontal	PK	PASS
5652	-42.2	-13	29.2	Horizontal	PK	PASS
7530	-42.46	-13	29.46	Horizontal	PK	PASS
12813	-41.51	-13	28.51	Horizontal	PK	PASS

LTE B25 Radiated Spurious Emission						
Freq.[MHz]	Level[dBm]	Limit[dBm]	Margin[dB]	Polarity	Detector	Verdict
254.458	-55.14	-13	42.14	Vertical	PK	PASS
962.946	-41.25	-13	28.25	Vertical	PK	PASS
3766.5	-46.59	-13	33.59	Vertical	PK	PASS
5646	-42.66	-13	29.66	Vertical	PK	PASS
7525.5	-37.84	-13	24.84	Vertical	PK	PASS
9412.5	-37.81	-13	24.81	Vertical	PK	PASS

LTE B26(814-824) Radiated Spurious Emission						
Freq.[MHz]	Level[dBm]	Limit[dBm]	Margin[dB]	Polarity	Detector	Verdict
253.294	-55.49	-13	42.49	Horizontal	PK	PASS
474.648	-48.5	-13	35.5	Horizontal	PK	PASS
1676.017	-42.91	-13	29.91	Horizontal	PK	PASS
3351.567	-47.05	-13	34.05	Horizontal	PK	PASS
4178.767	-44.81	-13	31.81	Horizontal	PK	PASS
5186.917	-44.07	-13	31.07	Horizontal	PK	PASS

LTE B26(814-824) Radiated Spurious Emission						
Freq.[MHz]	Level[dBm]	Limit[dBm]	Margin[dB]	Polarity	Detector	Verdict
252.324	-54.6	-13	41.6	Vertical	PK	PASS
479.498	-49.55	-13	36.55	Vertical	PK	PASS
1672.883	-48.68	-13	35.68	Vertical	PK	PASS
2167.167	-50.75	-13	37.75	Vertical	PK	PASS
3350.783	-44.35	-13	31.35	Vertical	PK	PASS
5154.8	-43.52	-13	30.52	Vertical	PK	PASS

LTE B26(824-849) Radiated Spurious Emission						
Freq.[MHz]	Level[dBm]	Limit[dBm]	Margin[dB]	Polarity	Detector	Verdict
254.749	-55.57	-13	42.57	Horizontal	PK	PASS
518.395	-49.96	-13	36.96	Horizontal	PK	PASS
1639.983	-42.32	-13	29.32	Horizontal	PK	PASS
2204.767	-50.31	-13	37.31	Horizontal	PK	PASS
3277.933	-48.3	-13	35.3	Horizontal	PK	PASS
5125.817	-44.44	-13	31.44	Horizontal	PK	PASS

LTE B26(824-849) Radiated Spurious Emission						
Freq.[MHz]	Level[dBm]	Limit[dBm]	Margin[dB]	Polarity	Detector	Verdict
252.615	-54.96	-13	41.96	Vertical	PK	PASS
613.552	-47.48	-13	34.48	Vertical	PK	PASS
1637.633	-45.22	-13	32.22	Vertical	PK	PASS
2214.95	-50.31	-13	37.31	Vertical	PK	PASS
3275.583	-45.7	-13	32.7	Vertical	PK	PASS
5139.917	-43.69	-13	30.69	Vertical	PK	PASS

LTE B38 Radiated Spurious Emission						
Freq.[MHz]	Level[dBm]	Limit[dBm]	Margin[dB]	Polarity	Detector	Verdict
249.996	-55.38	-25	42.38	Horizontal	PK	PASS
484.833	-49.47	-25	36.47	Horizontal	PK	PASS
1318.8	-40.24	-25	27.24	Horizontal	PK	PASS
5190	-39.84	-25	26.84	Horizontal	PK	PASS
7789.5	-40.24	-25	27.24	Horizontal	PK	PASS
10380	-34.09	-25	21.09	Horizontal	PK	PASS

LTE B38 Radiated Spurious Emission						
Freq.[MHz]	Level[dBm]	Limit[dBm]	Margin[dB]	Polarity	Detector	Verdict
418.582	-52.07	-25	39.07	Vertical	PK	PASS
796.009	-44	-25	31	Vertical	PK	PASS
970.415	-41.07	-25	28.07	Vertical	PK	PASS
5188.5	-43.99	-25	30.99	Vertical	PK	PASS
7785	-35.38	-25	22.38	Vertical	PK	PASS
10380	-33.53	-25	20.53	Vertical	PK	PASS

LTE B41 Radiated Spurious Emission						
Freq.[MHz]	Level[dBm]	Limit[dBm]	Margin[dB]	Polarity	Detector	Verdict
332.931	-53.59	-25	40.59	Horizontal	PK	PASS
467.082	-49.58	-25	36.58	Horizontal	PK	PASS
956.156	-40.27	-25	27.27	Horizontal	PK	PASS
5209.5	-39.56	-25	26.56	Horizontal	PK	PASS
7816.5	-41.01	-25	28.01	Horizontal	PK	PASS
10425	-33.8	-25	20.8	Horizontal	PK	PASS

LTE B41 Radiated Spurious Emission						
Freq.[MHz]	Level[dBm]	Limit[dBm]	Margin[dB]	Polarity	Detector	Verdict
229.82	-55.67	-25	42.67	Vertical	PK	PASS
538.668	-49.9	-25	36.9	Vertical	PK	PASS
970.415	-40.12	-25	27.12	Vertical	PK	PASS
5206.5	-43.89	-25	30.89	Vertical	PK	PASS
7819.5	-37.58	-25	24.58	Vertical	PK	PASS
10420.5	-35.22	-25	22.22	Vertical	PK	PASS



6. Photographs of EUT

Refer to the <External Photos&Internal Photos>



7. Photographs of Test Set-ups

Refer to the <Test Setup Photos>

— End —