





RF TEST REPORT

Applicant Quectel Wireless Solutions Co., Ltd

FCC ID XMR202008EG95NAXD

Product LTE Module

Brand Quectel

Model EG95-NAXD

Report No. R2006A0378-R3

Issue Date August 25, 2020

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in FCC CFR47 Part 2 (2019)/ FCC CFR 47 Part 90S (2019). The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Performed by: Peng Tao

Approved by: Kai Xu

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Summary of measurement results

No.	Test Case	Clause in FCC rules	Verdict
1	RF power output	2.1046/90.635(b)	Refer to the
ľ	Tri power output	2.1040/90.000(b)	original
2	Effective Radiated Power	90.635(b)	Refer to the
	Ellective Radiated Fower	90.035(b)	original
3	Occupied Randwidth	2.1049/ 90.209	Refer to the
3	Occupied Bandwidth	2.1049/ 90.209	original
4	Emission Masks	2.1051 / 90.691	Refer to the
4	ETHISSIOTI WASKS	2.1051790.691	original
5	Dook to Average Dower Datio	KDD 071169 D01/5 7)	Refer to the
5	Peak-to-Average Power Ratio	KDB 971168 D01(5.7)	original
6	Frequency Stability	2.1055 / 90.213	PASS
7	Spurious Emissions at Antenna Terminals	2.1051 / 90.691	PASS
8	Padiatos Spurious Emission	2.1053 /90.691	Refer to the
0	Radiates Spurious Emission	2.1003 /90.091	original

Date of Testing: October 22, 2019 ~ November 9, 2019 and June 29, 2020 and August 21,2020

Note: All indications of Pass/Fail in this report are opinions expressed by TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.

EG95-NAXD (Report No.: R2006A0378-R3) is a variant of the EG95-NAX (Report No.: R1907A0407-R3). Test values duplicated from Original for variant. There is only tested Frequency Stability and Spurious Emissions at Antenna Terminals for variant in this report. The detailed product change description please refers to the Statement letter_EG95-NAX& EG95-NAXD.



1. Test Laboratory

1.1. Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA technology** (shanghai) co., Ltd. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein .Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

1.2. Testing Location

Company: TA Technology (Shanghai) Co., Ltd.

Address: No.145, Jintang Rd, Tangzhen Industry Park, Pudong

City: Shanghai

Post code: 201201

Country: P. R. China

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2. General Description of Equipment under Test

2.1. Applicant and Manufacturer Information

Applicant	Quectel Wireless Solutions Co., Ltd				
Applicant address	Building 5, Shanghai Business Park Phase III (Area B), No.1016				
Applicant address	Tianlin Road, Minhang District, Shanghai, China 200233				
Manufacturer	Quectel Wireless Solutions Co., Ltd				
Manufacturar address	Building 5, Shanghai Business Park Phase III (Area B), No.1016				
Manufacturer address	Tianlin Road, Minhang District, Shanghai, China 200233				

2.2. General Information

EUT Description								
Model	EG95-NAXD							
IMEI	863071010199125							
Hardware Version	R1.0							
Software Version	EG95NAXDGAR07A0	1M1G						
Power Supply	External Power Supply	/						
	The EUT don't have st	andard A	Antenna, Th	e Antenna used for				
Antenna Type	testing in this report	is the a	fter-market	accessory (Dipole				
	Antenna)							
	Frequency(MHz	i)	Gain(dBi)					
Antenna Gain	810		3.19					
	820			2.53				
Test Mode(s)	LTE Band 26;							
Test Modulation	QPSK 16QAM;							
LTE Category	4							
Maximum E.R.P.	LTE Band 26:	24.77d	Bm					
Rated Power Supply Voltage	3.8V							
Extreme Voltage	Minimum: 3.3V Max	imum: 4	.3V					
Extreme Temperature	Lowest: -40°C Highest: +85°C							
Operating Fraguency Denge (a)	Band	Tx	(MHz)	Rx (MHz)				
Operating Frequency Range(s)	LTE Band 26	814	~ 824	859 ~ 869				
Note: The information of the EU	Γ is declared by the mar	nufacture	r.					

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3. Applied Standards

According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standards:

FCC CFR 47 Part 90S (2019)

ANSI C63.26 (2015)

Reference standard:

FCC CFR47 Part 2 (2019)

KDB 971168 D01 Power Meas License Digital Systems v03r01



4. Test Configuration

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes. EUT stand-up position (Z axis), lie-down position (X, Y axis). Receiver antenna polarization (horizontal and vertical), the worst emission was found in position (X axis, horizontal polarization) and the worst case was recorded.

All mode and data rates and positions were investigated.

The following testing in LTE is set based on the maximum RF Output Power.

Test modes are chosen as the worst case configuration below for LTE Band 26

Test items	Bandwidth (MHz)			Modulation		RB			Test Channel			
rest items	1.4	3	5	10	QPSK	16QAM	1	50%	100%	L	М	н
RF power output	0	0	0	0	0	0	0	0	0	0	0	0
Effective Isotropic Radiated power	0	0	0	0	0	0	0	0	0	0	0	0
Occupied Bandwidth	0	0	0	0	0	0	1	-	0	0	0	0
Emission Mask	0	0	0	0	0	0	Ο	-	0	0	-	0
Peak-to-Average Power Ratio	0	0	0	0	0	0	1	-	0	0	0	0
Frequency Stability	0	0	0	0	0	0	0	0	0	0	0	0
Spurious Emissions at Antenna Terminals	0	0	0	0	0	-	0	-	-	0	0	0
Radiates Spurious Emission	0		0	0	0	-	0	-	-	-	0	-
Note	1 The mark "O" means that this configuration is chosen for testing											

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5. Test Case Results

5.1. RF Power Output and Effective Radiated Power

Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

Methods of Measurement

The testing follows FCC KDB 971168 v03r01 Section 5.8 and ANSI C63.26 (2015).

- a) Connect the equipment as illustrated. Mount the equipment with the manufacturer specified antenna in a vertical orientation on a manufacturer specified mounting surface located on a non-conducting rotating platform of a RF anechoic chamber (preferred) or a standard radiation site.
- b) Key the transmitter, then rotate the EUT 360° azimuthally and record spectrum analyzer power level (LVL) measurements at angular increments that are sufficiently small to permit resolution of all peaks. If a standard radiation test site is used, raise and lower the test antenna to obtain a maximum reading at each angular increment. (Note: several batteries may be needed to offset the effect of battery voltage droop, which should not exceed 5% of the manufactured specified battery voltage during transmission).
- c) Replace the transmitter under test with a vertically polarized half-wave dipole (or an antenna whose gain is known relative to an ideal half-wave dipole). The center of the antenna should be at the same location as the center of the antenna under test.
- d) Connect the antenna to a signal generator with a known output power and record the path loss (in dB) as LOSS. If a standard radiation test site is used, raise and lower the test antenna to obtain a maximum reading.LOSS = Generator Output Power (dBm) – Analyzer reading (dBm)
- e) Determine the effective radiated output power at each angular position from the readings in steps b) and d) using the following equation: ERP (dBm) = LVL (dBm) + LOSS (dB)
- f) The maximum ERP is the maximum value determined in the preceding step.
- g) When calculating ERP, in addition to knowing the antenna radiation and matching characteristics, it is necessary to know the loss values of all elements (e.g. transmission line attenuation, mismatches, filters, combiners) interposed between the point where transmitter output power is measured, and the point where power is applied to the antenna. ERP can then be calculated as follows:

EIRP (dBm) = Output Power (dBm) - Losses (dB) + Antenna Gain (dBi) where:dBd refers to gain relative to an ideal dipole.

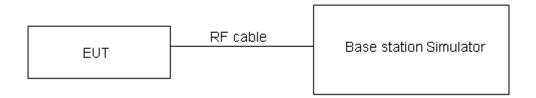
EIRP (dBm) = ERP (dBm) + 2.15 (dB.)

The RB allocation refers to section 5.1, using the maximum output power configuration.

Test Setup

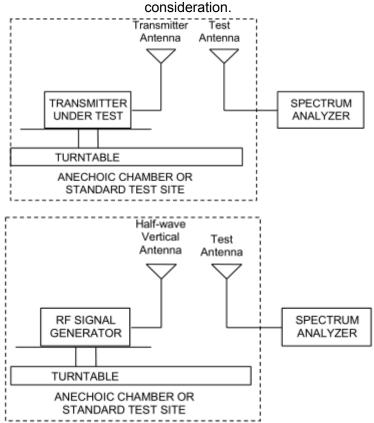
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The loss between RF output port of the EUT and the input port of the tester has been taken into consideration.

The loss between RF output port of the EUT and the input port of the tester has been taken into



Limits

Rule Part 90.635(b) specifies that "The maximum output power of the transmitter for mobile stations is 100 watts".



Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U = 0.4 dB.



Test Results

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	ERP (dBm)
LTE Band26	1.4	26697	1	#0	QPSK	23.59	24.63
LTE Band26	1.4	26697	1	#Mid	QPSK	23.68	24.72
LTE Band26	1.4	26697	1	#Max	QPSK	23.73	24.77
LTE Band26	1.4	26697	3	#0	QPSK	23.47	24.51
LTE Band26	1.4	26697	3	#Mid	QPSK	23.60	24.64
LTE Band26	1.4	26697	3	#Max	QPSK	23.53	24.57
LTE Band26	1.4	26697	6	#0	QPSK	22.53	23.57
LTE Band26	1.4	26697	1	#0	16QAM	22.57	23.61
LTE Band26	1.4	26697	1	#Mid	16QAM	22.86	23.90
LTE Band26	1.4	26697	1	#Max	16QAM	22.74	23.78
LTE Band26	1.4	26697	3	#0	16QAM	22.72	23.76
LTE Band26	1.4	26697	3	#Mid	16QAM	22.72	23.76
LTE Band26	1.4	26697	3	#Max	16QAM	22.82	23.86
LTE Band26	1.4	26697	6	#0	16QAM	21.48	22.52
LTE Band26	1.4	26740	1	#0	QPSK	23.56	23.94
LTE Band26	1.4	26740	1	#Mid	QPSK	23.74	24.12
LTE Band26	1.4	26740	1	#Max	QPSK	23.53	23.91
LTE Band26	1.4	26740	3	#0	QPSK	23.64	24.02
LTE Band26	1.4	26740	3	#Mid	QPSK	23.64	24.02
LTE Band26	1.4	26740	3	#Max	QPSK	23.62	24.00
LTE Band26	1.4	26740	6	#0	QPSK	22.82	23.20
LTE Band26	1.4	26740	1	#0	16QAM	23.03	23.41
LTE Band26	1.4	26740	1	#Mid	16QAM	23.21	23.59
LTE Band26	1.4	26740	1	#Max	16QAM	23.15	23.53
LTE Band26	1.4	26740	3	#0	16QAM	22.81	23.19
LTE Band26	1.4	26740	3	#Mid	16QAM	22.79	23.17
LTE Band26	1.4	26740	3	#Max	16QAM	22.74	23.12
LTE Band26	1.4	26740	6	#0	16QAM	21.71	22.09
LTE Band26	1.4	26783	1	#0	QPSK	23.73	24.11
LTE Band26	1.4	26783	1	#Mid	QPSK	23.97	24.35
LTE Band26	1.4	26783	1	#Max	QPSK	23.72	24.10
LTE Band26	1.4	26783	3	#0	QPSK	23.84	24.22
LTE Band26	1.4	26783	3	#Mid	QPSK	23.83	24.21
LTE Band26	1.4	26783	3	#Max	QPSK	23.86	24.24
LTE Band26	1.4	26783	6	#0	QPSK	22.88	23.26
LTE Band26	1.4	26783	1	#0	16QAM	22.81	23.19
LTE Band26	1.4	26783	1	#Mid	16QAM	22.61	22.99
LTE Band26	1.4	26783	1	#Max	16QAM	22.73	23.11

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LTE Band26 1.4 26783 3 #0 16QAM 22.95 23.33 LTE Band26 1.4 26783 3 #Mid 16QAM 22.94 23.32 LTE Band26 1.4 26783 6 #0 16QAM 22.98 23.35 LTE Band26 3 26705 1 #0 QPSK 23.55 23.93 LTE Band26 3 26705 1 #Mid QPSK 23.75 24.13 LTE Band26 3 26705 1 #Mid QPSK 22.64 23.02 LTE Band26 3 26705 8 #Mid QPSK 22.64 23.02 LTE Band26 3 26705 8 #Mid QPSK 22.64 23.02 LTE Band26 3 26705 8 #Max QPSK 22.74 23.14 LTE Band26 3 26705 1 #Mid 16QAM 22.77 23.14 LTE Band26 3	- RF Test I	report				Ne.	port No.: KZU	00A0376-N3
LTE Band26	LTE Band26	1.4	26783	3	#0	16QAM	22.95	23.33
LTE Band26	LTE Band26	1.4	26783	3	#Mid	16QAM	22.94	23.32
LTE Band26	LTE Band26	1.4	26783	3	#Max	16QAM	22.98	23.36
LTE Band26	LTE Band26	1.4	26783	6	#0	16QAM	22.05	22.43
LTE Band26	LTE Band26	3	26705	1	#0	QPSK	23.55	23.93
LTE Band26 3 26705 8 #0 QPSK 22.64 23.02 LTE Band26 3 26705 8 #Mid QPSK 22.64 23.02 LTE Band26 3 26705 8 #Max QPSK 22.84 23.22 LTE Band26 3 26705 15 #0 QPSK 22.76 23.14 LTE Band26 3 26705 1 #0 16QAM 22.71 23.09 LTE Band26 3 26705 1 #Mid 16QAM 22.87 23.27 LTE Band26 3 26705 1 #Mid 16QAM 22.87 23.27 LTE Band26 3 26705 1 #Mid 16QAM 22.87 23.09 LTE Band26 3 26705 1 #Mid 16QAM 22.87 23.17 LTE Band26 3 26705 8 #Mid 16QAM 21.39 21.77 LTE Band26 3 26705 8 #Mid 16QAM 21.39 21.77 LTE Band26 3 26705 8 #Mid 16QAM 21.39 21.77 LTE Band26 3 26705 15 #0 16QAM 21.39 21.77 LTE Band26 3 26740 1 #Mid QPSK 24.12 24.50 LTE Band26 3 26740 1 #Mid QPSK 23.81 24.19 LTE Band26 3 26740 1 #Max QPSK 23.74 24.12 LTE Band26 3 26740 8 #Mid QPSK 22.79 23.17 LTE Band26 3 26740 8 #Mid QPSK 22.79 23.17 LTE Band26 3 26740 8 #Mid QPSK 22.79 23.17 LTE Band26 3 26740 8 #Mid QPSK 22.79 23.17 LTE Band26 3 26740 8 #Mid QPSK 22.79 23.17 LTE Band26 3 26740 1 #Mid 16QAM 23.43 23.81 LTE Band26 3 26740 1 #Mid 16QAM 23.43 23.81 LTE Band26 3 26740 8 #Mid 16QAM 23.43 23.81 LTE Band26 3 26740 8 #Mid 16QAM 22.18 22.56 LTE Band26 3 26740 8 #Mid 16QAM 22.18 22.56 LTE Band26 3 26740 8 #Mid 16QAM 22.18 22.56 LTE Band26 3 26740 8 #Mid 16QAM 22.18 22.56 LTE Band26 3 26740 8 #Mid 16QAM 22.18 22.56 LTE Band26 3 26740 8 #Mid QPSK 22.82 23.30 LTE Band26 3 26775 1 #Mid QPSK 22.82 23.30 LTE Band26 3 26775 1 #Mid QPSK 22.82 23.20 LTE Band26 3 26775 1 #Mid QPSK 22.82 23.20 LTE Band26 3 267	LTE Band26	3	26705	1	#Mid	QPSK	23.75	24.13
LTE Band26 3 26705 8 #Mid QPSK 22.64 23.02 LTE Band26 3 26705 8 #Max QPSK 22.84 23.22 LTE Band26 3 26705 15 #0 QPSK 22.76 23.14 LTE Band26 3 26705 1 #0 16QAM 22.71 23.09 LTE Band26 3 26705 1 #Mid 16QAM 22.89 23.27 LTE Band26 3 26705 1 #Mid 16QAM 22.89 23.27 LTE Band26 3 26705 1 #Mid 16QAM 23.18 23.56 LTE Band26 3 26705 8 #Mid 16QAM 21.99 21.77 LTE Band26 3 26705 8 #Mid 16QAM 21.39 21.77 LTE Band26 3 26705 8 #Mid 16QAM 21.39 21.77 LTE Band26 3 26705 8 #Mid 16QAM 21.39 21.77 LTE Band26 3 26705 15 #0 16QAM 21.56 21.94 LTE Band26 3 26740 1 #Mid QPSK 23.81 24.19 LTE Band26 3 26740 1 #Mid QPSK 23.81 24.19 LTE Band26 3 26740 1 #Max QPSK 23.74 24.12 LTE Band26 3 26740 8 #Mid QPSK 22.79 23.17 LTE Band26 3 26740 8 #Mid QPSK 22.79 23.17 LTE Band26 3 26740 8 #Mid QPSK 22.79 23.17 LTE Band26 3 26740 8 #Mid QPSK 22.79 23.17 LTE Band26 3 26740 1 #Mid QPSK 22.79 23.17 LTE Band26 3 26740 1 #Mid 16QAM 23.44 23.82 LTE Band26 3 26740 1 #Mid 16QAM 23.43 23.81 LTE Band26 3 26740 1 #Mid 16QAM 23.43 23.81 LTE Band26 3 26740 8 #Mid 16QAM 22.18 22.56 LTE Band26 3 26740 8 #Mid 16QAM 22.18 22.56 LTE Band26 3 26740 8 #Mid 16QAM 22.18 22.56 LTE Band26 3 26740 8 #Mid 16QAM 22.18 22.56 LTE Band26 3 26740 8 #Mid QPSK 22.93 23.31 LTE Band26 3 26740 8 #Mid QPSK 22.93 23.31 LTE Band26 3 26740 8 #Mid QPSK 22.93 23.31 LTE Band26 3 26740 8 #Mid QPSK 22.92 23.30 LTE Band26 3 26775 1 #Mid QPSK 22.92 23.30 LTE Band26 3 26775 1 #Mid QPSK 22.82 23.20 LTE Band26 3 26	LTE Band26	3	26705	1	#Max	QPSK	23.77	24.15
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LTE Band26 3 26705 1 #Mid 16QAM 22.89 23.27 LTE Band26 3 26705 1 #Max 16QAM 23.18 23.56 LTE Band26 3 26705 8 #0 16QAM 21.69 22.07 LTE Band26 3 26705 8 #Mid 16QAM 21.39 21.77 LTE Band26 3 26705 8 #Max 16QAM 21.39 21.77 LTE Band26 3 26740 1 #0 16QAM 21.39 21.77 LTE Band26 3 26740 1 #0 QPSK 24.12 24.50 LTE Band26 3 26740 1 #0 QPSK 24.12 24.50 LTE Band26 3 26740 1 #Max QPSK 23.74 24.12 LTE Band26 3 26740 8 #Mid QPSK 22.79 23.17 LTE Band26 3 <t< td=""><td>LTE Band26</td><td>3</td><td>26705</td><td>15</td><td>#0</td><td>QPSK</td><td>22.76</td><td>23.14</td></t<>	LTE Band26	3	26705	15	#0	QPSK	22.76	23.14
LTE Band26 3 26705 1 #Max 16QAM 23.18 23.56 LTE Band26 3 26705 8 #0 16QAM 21.69 22.07 LTE Band26 3 26705 8 #Mid 16QAM 21.39 21.77 LTE Band26 3 26705 15 #0 16QAM 21.39 21.77 LTE Band26 3 26705 15 #0 16QAM 21.39 21.77 LTE Band26 3 26740 1 #0 QPSK 24.12 24.50 LTE Band26 3 26740 1 #Mid QPSK 23.81 24.19 LTE Band26 3 26740 1 #Max QPSK 23.74 24.12 LTE Band26 3 26740 8 #Mid QPSK 22.79 23.17 LTE Band26 3 26740 8 #Miax QPSK 22.79 23.17 LTE Band26 3	LTE Band26	3	26705	1	#0	16QAM	22.71	23.09
LTE Band26 3 26705 8 #0 16QAM 21.69 22.07 LTE Band26 3 26705 8 #Mid 16QAM 21.39 21.77 LTE Band26 3 26705 8 #Max 16QAM 21.39 21.77 LTE Band26 3 26705 15 #0 16QAM 21.56 21.94 LTE Band26 3 26740 1 #0 QPSK 24.12 24.50 LTE Band26 3 26740 1 #Mid QPSK 23.81 24.19 LTE Band26 3 26740 1 #Max QPSK 23.74 24.12 LTE Band26 3 26740 8 #0 QPSK 22.79 23.17 LTE Band26 3 26740 8 #Mid QPSK 22.79 23.17 LTE Band26 3 26740 8 #Max QPSK 22.79 23.17 LTE Band26 3 <td< td=""><td>LTE Band26</td><td>3</td><td>26705</td><td>1</td><td>#Mid</td><td>16QAM</td><td>22.89</td><td>23.27</td></td<>	LTE Band26	3	26705	1	#Mid	16QAM	22.89	23.27
LTE Band26 3 26705 8 #Mid 16QAM 21.39 21.77 LTE Band26 3 26705 8 #Max 16QAM 21.39 21.77 LTE Band26 3 26705 15 #0 16QAM 21.56 21.94 LTE Band26 3 26740 1 #0 QPSK 24.12 24.50 LTE Band26 3 26740 1 #Mid QPSK 23.81 24.19 LTE Band26 3 26740 1 #Max QPSK 23.74 24.12 LTE Band26 3 26740 8 #0 QPSK 22.79 23.17 LTE Band26 3 26740 8 #Mid QPSK 22.79 23.17 LTE Band26 3 26740 8 #Max QPSK 22.79 23.17 LTE Band26 3 26740 1 #0 16QAM 23.44 23.82 LTE Band26 3 <td< td=""><td>LTE Band26</td><td>3</td><td>26705</td><td>1</td><td>#Max</td><td>16QAM</td><td>23.18</td><td>23.56</td></td<>	LTE Band26	3	26705	1	#Max	16QAM	23.18	23.56
LTE Band26 3 26705 8 #Max 16QAM 21.39 21.77 LTE Band26 3 26705 15 #0 16QAM 21.56 21.94 LTE Band26 3 26740 1 #0 QPSK 24.12 24.50 LTE Band26 3 26740 1 #Mid QPSK 23.81 24.19 LTE Band26 3 26740 1 #Max QPSK 23.74 24.12 LTE Band26 3 26740 8 #0 QPSK 22.79 23.17 LTE Band26 3 26740 8 #Mid QPSK 22.79 23.17 LTE Band26 3 26740 8 #Max QPSK 22.79 23.17 LTE Band26 3 26740 1 #0 16QAM 23.44 23.82 LTE Band26 3 26740 1 #Mid 16QAM 23.43 23.77 LTE Band26 3 <td< td=""><td>LTE Band26</td><td>3</td><td>26705</td><td>8</td><td>#0</td><td>16QAM</td><td>21.69</td><td>22.07</td></td<>	LTE Band26	3	26705	8	#0	16QAM	21.69	22.07
LTE Band26 3 26705 15 #0 16QAM 21.56 21.94 LTE Band26 3 26740 1 #0 QPSK 24.12 24.50 LTE Band26 3 26740 1 #Mid QPSK 23.81 24.19 LTE Band26 3 26740 8 #0 QPSK 22.79 23.17 LTE Band26 3 26740 8 #Mid QPSK 22.79 23.17 LTE Band26 3 26740 8 #Mid QPSK 22.79 23.17 LTE Band26 3 26740 8 #Max QPSK 22.79 23.17 LTE Band26 3 26740 15 #0 QPSK 22.79 23.17 LTE Band26 3 26740 1 #0 16QAM 23.44 23.82 LTE Band26 3 26740 1 #Mid 16QAM 23.33 23.77 LTE Band26 3 2	LTE Band26	3	26705	8	#Mid	16QAM	21.39	21.77
LTE Band26 3 26740 1 #0 QPSK 24.12 24.50 LTE Band26 3 26740 1 #Mid QPSK 23.81 24.19 LTE Band26 3 26740 1 #Max QPSK 23.74 24.12 LTE Band26 3 26740 8 #0 QPSK 22.79 23.17 LTE Band26 3 26740 8 #Max QPSK 22.79 23.17 LTE Band26 3 26740 15 #0 QPSK 22.79 23.17 LTE Band26 3 26740 15 #0 QPSK 22.79 23.17 LTE Band26 3 26740 1 #0 16QAM 23.44 23.82 LTE Band26 3 26740 1 #Mid 16QAM 23.43 23.81 LTE Band26 3 26740 1 #Max 16QAM 22.03 22.41 LTE Band26 3 2	LTE Band26	3	26705	8	#Max	16QAM	21.39	21.77
LTE Band26 3 26740 1 #Mid QPSK 23.81 24.19 LTE Band26 3 26740 1 #Max QPSK 23.74 24.12 LTE Band26 3 26740 8 #0 QPSK 22.79 23.17 LTE Band26 3 26740 8 #Mid QPSK 22.79 23.17 LTE Band26 3 26740 15 #0 QPSK 22.79 23.17 LTE Band26 3 26740 15 #0 QPSK 22.79 23.17 LTE Band26 3 26740 1 #0 16QAM 23.44 23.82 LTE Band26 3 26740 1 #Mid 16QAM 23.43 23.81 LTE Band26 3 26740 8 #0 16QAM 22.03 22.41 LTE Band26 3 26740 8 #Mid 16QAM 22.18 22.56 LTE Band26 3	LTE Band26	3	26705	15	#0	16QAM	21.56	21.94
LTE Band26 3 26740 1 #Max QPSK 23.74 24.12 LTE Band26 3 26740 8 #0 QPSK 22.79 23.17 LTE Band26 3 26740 8 #Mid QPSK 22.79 23.17 LTE Band26 3 26740 15 #0 QPSK 22.79 23.17 LTE Band26 3 26740 1 #0 16QAM 23.44 23.82 LTE Band26 3 26740 1 #0 16QAM 23.44 23.82 LTE Band26 3 26740 1 #Max 16QAM 23.43 23.81 LTE Band26 3 26740 1 #Max 16QAM 23.43 23.81 LTE Band26 3 26740 8 #0 16QAM 22.03 22.41 LTE Band26 3 26740 8 #Max 16QAM 22.18 22.56 LTE Band26 3 <td< td=""><td>LTE Band26</td><td>3</td><td>26740</td><td>1</td><td>#0</td><td>QPSK</td><td>24.12</td><td>24.50</td></td<>	LTE Band26	3	26740	1	#0	QPSK	24.12	24.50
LTE Band26 3 26740 8 #0 QPSK 22.79 23.17 LTE Band26 3 26740 8 #Mid QPSK 22.79 23.17 LTE Band26 3 26740 8 #Max QPSK 22.79 23.17 LTE Band26 3 26740 15 #0 QPSK 22.79 23.17 LTE Band26 3 26740 1 #0 16QAM 23.44 23.82 LTE Band26 3 26740 1 #Mid 16QAM 23.39 23.77 LTE Band26 3 26740 1 #Max 16QAM 23.43 23.81 LTE Band26 3 26740 8 #0 16QAM 22.03 22.41 LTE Band26 3 26740 8 #Mid 16QAM 22.18 22.56 LTE Band26 3 26740 8 #Max 16QAM 22.18 22.32 LTE Band26 3 <	LTE Band26	3	26740	1	#Mid	QPSK	23.81	24.19
LTE Band26 3 26740 8 #Mid QPSK 22.79 23.17 LTE Band26 3 26740 8 #Max QPSK 22.79 23.17 LTE Band26 3 26740 15 #0 QPSK 22.79 23.17 LTE Band26 3 26740 1 #0 16QAM 23.44 23.82 LTE Band26 3 26740 1 #Mid 16QAM 23.39 23.77 LTE Band26 3 26740 1 #Max 16QAM 23.43 23.81 LTE Band26 3 26740 8 #0 16QAM 22.03 22.41 LTE Band26 3 26740 8 #Mid 16QAM 22.18 22.56 LTE Band26 3 26740 8 #Max 16QAM 22.18 22.56 LTE Band26 3 26740 15 #0 16QAM 22.18 22.32 LTE Band26 3	LTE Band26	3	26740	1	#Max	QPSK	23.74	24.12
LTE Band26 3 26740 8 #Max QPSK 22.79 23.17 LTE Band26 3 26740 15 #0 QPSK 22.79 23.17 LTE Band26 3 26740 1 #0 16QAM 23.44 23.82 LTE Band26 3 26740 1 #Mid 16QAM 23.39 23.77 LTE Band26 3 26740 1 #Max 16QAM 23.43 23.81 LTE Band26 3 26740 8 #0 16QAM 22.03 22.41 LTE Band26 3 26740 8 #Mid 16QAM 22.18 22.56 LTE Band26 3 26740 8 #Max 16QAM 22.18 22.56 LTE Band26 3 26740 15 #0 16QAM 21.94 22.32 LTE Band26 3 26775 1 #0 QPSK 24.05 24.43 LTE Band26 3 <	LTE Band26	3	26740	8	#0	QPSK	22.79	23.17
LTE Band26 3 26740 15 #0 QPSK 22.79 23.17 LTE Band26 3 26740 1 #0 16QAM 23.44 23.82 LTE Band26 3 26740 1 #Mid 16QAM 23.39 23.77 LTE Band26 3 26740 1 #Max 16QAM 23.43 23.81 LTE Band26 3 26740 8 #0 16QAM 22.03 22.41 LTE Band26 3 26740 8 #Mid 16QAM 22.18 22.56 LTE Band26 3 26740 8 #Max 16QAM 22.18 22.56 LTE Band26 3 26740 15 #0 16QAM 22.18 22.56 LTE Band26 3 26775 1 #0 QPSK 23.83 24.21 LTE Band26 3 26775 1 #Max QPSK 24.05 24.43 LTE Band26 3 <	LTE Band26	3	26740	8	#Mid	QPSK	22.79	23.17
LTE Band26 3 26740 1 #0 16QAM 23.44 23.82 LTE Band26 3 26740 1 #Mid 16QAM 23.39 23.77 LTE Band26 3 26740 1 #Max 16QAM 23.43 23.81 LTE Band26 3 26740 8 #0 16QAM 22.03 22.41 LTE Band26 3 26740 8 #Mid 16QAM 22.18 22.56 LTE Band26 3 26740 8 #Max 16QAM 22.18 22.56 LTE Band26 3 26740 8 #Max 16QAM 22.18 22.56 LTE Band26 3 26740 15 #0 16QAM 22.18 22.56 LTE Band26 3 26775 1 #0 QPSK 23.83 24.21 LTE Band26 3 26775 1 #Max QPSK 24.45 22.93 23.31 LTE Band26	LTE Band26	3	26740	8	#Max	QPSK	22.79	23.17
LTE Band26 3 26740 1 #Mid 16QAM 23.39 23.77 LTE Band26 3 26740 1 #Max 16QAM 23.43 23.81 LTE Band26 3 26740 8 #0 16QAM 22.03 22.41 LTE Band26 3 26740 8 #Mid 16QAM 22.18 22.56 LTE Band26 3 26740 8 #Max 16QAM 22.18 22.56 LTE Band26 3 26740 15 #0 16QAM 21.94 22.32 LTE Band26 3 26775 1 #0 QPSK 23.83 24.21 LTE Band26 3 26775 1 #Mid QPSK 24.05 24.43 LTE Band26 3 26775 1 #Max QPSK 22.93 23.31 LTE Band26 3 26775 8 #Mid QPSK 22.92 23.30 LTE Band26 3	LTE Band26	3	26740	15	#0	QPSK	22.79	23.17
LTE Band26 3 26740 1 #Max 16QAM 23.43 23.81 LTE Band26 3 26740 8 #0 16QAM 22.03 22.41 LTE Band26 3 26740 8 #Mid 16QAM 22.18 22.56 LTE Band26 3 26740 8 #Max 16QAM 22.18 22.56 LTE Band26 3 26740 15 #0 16QAM 21.94 22.32 LTE Band26 3 26775 1 #0 QPSK 23.83 24.21 LTE Band26 3 26775 1 #Mid QPSK 24.05 24.43 LTE Band26 3 26775 1 #Max QPSK 24.07 24.45 LTE Band26 3 26775 8 #0 QPSK 22.93 23.31 LTE Band26 3 26775 8 #Max QPSK 22.87 23.25 LTE Band26 3 <t< td=""><td>LTE Band26</td><td>3</td><td>26740</td><td>1</td><td>#0</td><td>16QAM</td><td>23.44</td><td>23.82</td></t<>	LTE Band26	3	26740	1	#0	16QAM	23.44	23.82
LTE Band26 3 26740 8 #0 16QAM 22.03 22.41 LTE Band26 3 26740 8 #Mid 16QAM 22.18 22.56 LTE Band26 3 26740 8 #Max 16QAM 22.18 22.56 LTE Band26 3 26740 15 #0 16QAM 21.94 22.32 LTE Band26 3 26775 1 #0 QPSK 23.83 24.21 LTE Band26 3 26775 1 #Mid QPSK 24.05 24.43 LTE Band26 3 26775 1 #Max QPSK 24.07 24.45 LTE Band26 3 26775 8 #0 QPSK 22.93 23.31 LTE Band26 3 26775 8 #Mid QPSK 22.87 23.25 LTE Band26 3 26775 15 #0 QPSK 22.82 23.20 LTE Band26 3 26775 1 #0 16QAM 22.87 23.25 LTE Band26	LTE Band26	3	26740	1	#Mid	16QAM	23.39	23.77
LTE Band26 3 26740 8 #Mid 16QAM 22.18 22.56 LTE Band26 3 26740 8 #Max 16QAM 22.18 22.56 LTE Band26 3 26740 15 #0 16QAM 21.94 22.32 LTE Band26 3 26775 1 #0 QPSK 23.83 24.21 LTE Band26 3 26775 1 #Mid QPSK 24.05 24.43 LTE Band26 3 26775 1 #Max QPSK 24.07 24.45 LTE Band26 3 26775 8 #0 QPSK 22.93 23.31 LTE Band26 3 26775 8 #Mid QPSK 22.92 23.30 LTE Band26 3 26775 8 #Max QPSK 22.92 23.30 LTE Band26 3 26775 15 #0 QPSK 22.82 23.20 LTE Band26 3 26775 1 #0 16QAM 22.87 23.25 LTE Band26	LTE Band26	3	26740	1	#Max	16QAM	23.43	23.81
LTE Band26 3 26740 8 #Max 16QAM 22.18 22.56 LTE Band26 3 26740 15 #0 16QAM 21.94 22.32 LTE Band26 3 26775 1 #0 QPSK 23.83 24.21 LTE Band26 3 26775 1 #Mid QPSK 24.05 24.43 LTE Band26 3 26775 1 #Max QPSK 24.07 24.45 LTE Band26 3 26775 8 #0 QPSK 22.93 23.31 LTE Band26 3 26775 8 #Mid QPSK 22.87 23.25 LTE Band26 3 26775 15 #0 QPSK 22.82 23.20 LTE Band26 3 26775 1 #0 16QAM 22.87 23.25 LTE Band26 3 26775 1 #0 16QAM 22.76 23.14	LTE Band26	3	26740	8	#0	16QAM	22.03	22.41
LTE Band26 3 26740 15 #0 16QAM 21.94 22.32 LTE Band26 3 26775 1 #0 QPSK 23.83 24.21 LTE Band26 3 26775 1 #Mid QPSK 24.05 24.43 LTE Band26 3 26775 1 #Max QPSK 24.07 24.45 LTE Band26 3 26775 8 #0 QPSK 22.93 23.31 LTE Band26 3 26775 8 #Mid QPSK 22.87 23.25 LTE Band26 3 26775 15 #0 QPSK 22.82 23.20 LTE Band26 3 26775 1 #0 16QAM 22.87 23.25 LTE Band26 3 26775 1 #0 16QAM 22.87 23.25 LTE Band26 3 26775 1 #Mid 16QAM 22.76 23.14	LTE Band26	3	26740	8	#Mid	16QAM	22.18	22.56
LTE Band26 3 26775 1 #0 QPSK 23.83 24.21 LTE Band26 3 26775 1 #Mid QPSK 24.05 24.43 LTE Band26 3 26775 1 #Max QPSK 24.07 24.45 LTE Band26 3 26775 8 #0 QPSK 22.93 23.31 LTE Band26 3 26775 8 #Mid QPSK 22.87 23.25 LTE Band26 3 26775 15 #0 QPSK 22.82 23.20 LTE Band26 3 26775 1 #0 16QAM 22.87 23.25 LTE Band26 3 26775 1 #0 16QAM 22.87 23.25 LTE Band26 3 26775 1 #Mid 16QAM 22.76 23.14	LTE Band26	3	26740	8	#Max	16QAM	22.18	22.56
LTE Band26 3 26775 1 #Mid QPSK 24.05 24.43 LTE Band26 3 26775 1 #Max QPSK 24.07 24.45 LTE Band26 3 26775 8 #0 QPSK 22.93 23.31 LTE Band26 3 26775 8 #Mid QPSK 22.87 23.25 LTE Band26 3 26775 15 #0 QPSK 22.82 23.20 LTE Band26 3 26775 1 #0 16QAM 22.87 23.25 LTE Band26 3 26775 1 #0 16QAM 22.87 23.25 LTE Band26 3 26775 1 #Mid 16QAM 22.76 23.14	LTE Band26	3	26740	15	#0	16QAM	21.94	22.32
LTE Band26 3 26775 1 #Max QPSK 24.07 24.45 LTE Band26 3 26775 8 #0 QPSK 22.93 23.31 LTE Band26 3 26775 8 #Mid QPSK 22.87 23.25 LTE Band26 3 26775 8 #Max QPSK 22.92 23.30 LTE Band26 3 26775 15 #0 QPSK 22.82 23.20 LTE Band26 3 26775 1 #0 16QAM 22.87 23.25 LTE Band26 3 26775 1 #Mid 16QAM 22.76 23.14	LTE Band26	3	26775	1	#0	QPSK	23.83	24.21
LTE Band26 3 26775 8 #0 QPSK 22.93 23.31 LTE Band26 3 26775 8 #Mid QPSK 22.87 23.25 LTE Band26 3 26775 8 #Max QPSK 22.92 23.30 LTE Band26 3 26775 15 #0 QPSK 22.82 23.20 LTE Band26 3 26775 1 #0 16QAM 22.87 23.25 LTE Band26 3 26775 1 #Mid 16QAM 22.76 23.14	LTE Band26	3	26775	1	#Mid	QPSK	24.05	24.43
LTE Band26 3 26775 8 #Mid QPSK 22.87 23.25 LTE Band26 3 26775 8 #Max QPSK 22.92 23.30 LTE Band26 3 26775 15 #0 QPSK 22.82 23.20 LTE Band26 3 26775 1 #0 16QAM 22.87 23.25 LTE Band26 3 26775 1 #Mid 16QAM 22.76 23.14	LTE Band26	3	26775	1	#Max	QPSK	24.07	24.45
LTE Band26 3 26775 8 #Max QPSK 22.92 23.30 LTE Band26 3 26775 15 #0 QPSK 22.82 23.20 LTE Band26 3 26775 1 #0 16QAM 22.87 23.25 LTE Band26 3 26775 1 #Mid 16QAM 22.76 23.14	LTE Band26	3	26775	8	#0	QPSK	22.93	23.31
LTE Band26 3 26775 15 #0 QPSK 22.82 23.20 LTE Band26 3 26775 1 #0 16QAM 22.87 23.25 LTE Band26 3 26775 1 #Mid 16QAM 22.76 23.14	LTE Band26	3	26775	8	#Mid	QPSK	22.87	23.25
LTE Band26 3 26775 1 #0 16QAM 22.87 23.25 LTE Band26 3 26775 1 #Mid 16QAM 22.76 23.14	LTE Band26	3	26775	8	#Max	QPSK	22.92	23.30
LTE Band26 3 26775 1 #Mid 16QAM 22.76 23.14	LTE Band26	3	26775	15	#0	QPSK	22.82	23.20
	LTE Band26	3	26775	1	#0	16QAM	22.87	23.25
LTE Band26 3 26775 1 #Max 16QAM 22.90 23.28			26775	1	#Mid	16QAM	22.76	23.14
	LTE Band26	3	26775	1	#Max	16QAM	22.90	23.28



- RF Test	Report				Ne	port No.: KZU	00A0376-N3
LTE Band26	3	26775	8	#0	16QAM	22.08	22.46
LTE Band26	3	26775	8	#Mid	16QAM	22.08	22.46
LTE Band26	3	26775	8	#Max	16QAM	22.09	22.47
LTE Band26	3	26775	15	#0	16QAM	21.89	22.27
LTE Band26	5	26715	1	#0	QPSK	23.41	23.79
LTE Band26	5	26715	1	#Mid	QPSK	23.76	24.14
LTE Band26	5	26715	1	#Max	QPSK	23.87	24.25
LTE Band26	5	26715	12	#0	QPSK	22.62	23.00
LTE Band26	5	26715	12	#Mid	QPSK	22.62	23.00
LTE Band26	5	26715	12	#Max	QPSK	22.80	23.18
LTE Band26	5	26715	25	#0	QPSK	22.78	23.16
LTE Band26	5	26715	1	#0	16QAM	22.99	23.37
LTE Band26	5	26715	1	#Mid	16QAM	23.08	23.46
LTE Band26	5	26715	1	#Max	16QAM	22.67	23.05
LTE Band26	5	26715	12	#0	16QAM	21.58	21.96
LTE Band26	5	26715	12	#Mid	16QAM	21.49	21.87
LTE Band26	5	26715	12	#Max	16QAM	21.65	22.03
LTE Band26	5	26715	25	#0	16QAM	21.76	22.14
LTE Band26	5	26740	1	#0	QPSK	23.76	24.14
LTE Band26	5	26740	1	#Mid	QPSK	23.74	24.12
LTE Band26	5	26740	1	#Max	QPSK	23.57	23.95
LTE Band26	5	26740	12	#0	QPSK	22.82	23.20
LTE Band26	5	26740	12	#Mid	QPSK	22.83	23.21
LTE Band26	5	26740	12	#Max	QPSK	22.92	23.30
LTE Band26	5	26740	25	#0	QPSK	22.83	23.21
LTE Band26	5	26740	1	#0	16QAM	22.99	23.37
LTE Band26	5	26740	1	#Mid	16QAM	23.19	23.57
LTE Band26	5	26740	1	#Max	16QAM	22.04	22.42
LTE Band26	5	26740	12	#0	16QAM	21.52	21.90
LTE Band26	5	26740	12	#Mid	16QAM	21.53	21.91
LTE Band26	5	26740	12	#Max	16QAM	21.53	21.91
LTE Band26	5	26740	25	#0	16QAM	21.65	22.03
LTE Band26	5	26765	1	#0	QPSK	23.71	24.09
LTE Band26	5	26765	1	#Mid	QPSK	23.61	23.99
LTE Band26	5	26765	1	#Max	QPSK	23.63	24.01
LTE Band26	5	26765	12	#0	QPSK	22.87	23.25
LTE Band26	5	26765	12	#Mid	QPSK	22.88	23.26
LTE Band26	5	26765	12	#Max	QPSK	22.82	23.20
LTE Band26	5	26765	25	#0	QPSK	22.93	23.31
LTE Band26	5	26765	1	#0	16QAM	22.58	22.96
LTE Band26	5	26765	1	#Mid	16QAM	22.63	23.01
LTE Band26	5	26765	1	#Max	16QAM	22.76	23.14



report non name								
LTE Band26	5	26765	12	#0	16QAM	21.86	22.24	
LTE Band26	5	26765	12	#Mid	16QAM	21.87	22.25	
LTE Band26	5	26765	12	#Max	16QAM	21.83	22.21	
LTE Band26	5	26765	25	#0	16QAM	21.88	22.26	
LTE Band26	10	26740	1	#0	QPSK	23.49	23.87	
LTE Band26	10	26740	1	#Mid	QPSK	23.84	24.22	
LTE Band26	10	26740	1	#Max	QPSK	23.68	24.06	
LTE Band26	10	26740	25	#0	QPSK	22.79	23.17	
LTE Band26	10	26740	25	#Mid	QPSK	22.79	23.17	
LTE Band26	10	26740	25	#Max	QPSK	22.84	23.22	
LTE Band26	10	26740	50	#0	QPSK	22.81	23.19	
LTE Band26	10	26740	1	#0	16QAM	22.78	23.16	
LTE Band26	10	26740	1	#Mid	16QAM	23.16	23.54	
LTE Band26	10	26740	1	#Max	16QAM	22.70	23.08	
LTE Band26	10	26740	25	#0	16QAM	21.88	22.26	
LTE Band26	10	26740	25	#Mid	16QAM	21.89	22.27	
LTE Band26	10	26740	25	#Max	16QAM	21.97	22.35	
LTE Band26	10	26740	50	#0	16QAM	21.78	22.16	



5.2. Occupied Bandwidth

Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The occupied bandwidth is measured using spectrum analyzer.

RBW is set to 30kHz, VBW is set to 91 kHz for LTE Band 26 (1.4MHz),

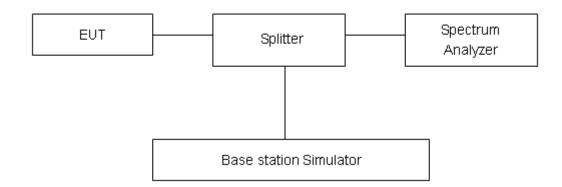
RBW is set to 62 kHz, VBW is set to 180kHz for LTE Band 26 (3MHz),

RBW is set to 100 kHz, VBW is set to 300kHz for LTE Band 26 (5MHz),

RBW is set to 200 kHz, VBW is set to 620kHz for LTE Band 26 (10MHz).

99% power and -26dBc occupied bandwidths are recorded. Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

No specific occupied bandwidth requirements in part 2.1049.

Part 90.209 (a) Each authorization issued to a station licensed under this part will show an emission designator representing the class of emission authorized. The designator will be prefixed by a specified necessary bandwidth. This number does not necessarily indicate the bandwidth occupied by the emission at any instant. In those cases where part 2.202 of this chapter does not provide a formula for the computation of necessary bandwidth, the occupied bandwidth, as defined in part 2 of this chapter, may be used in lieu of the necessary bandwidth.

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U = 624Hz.

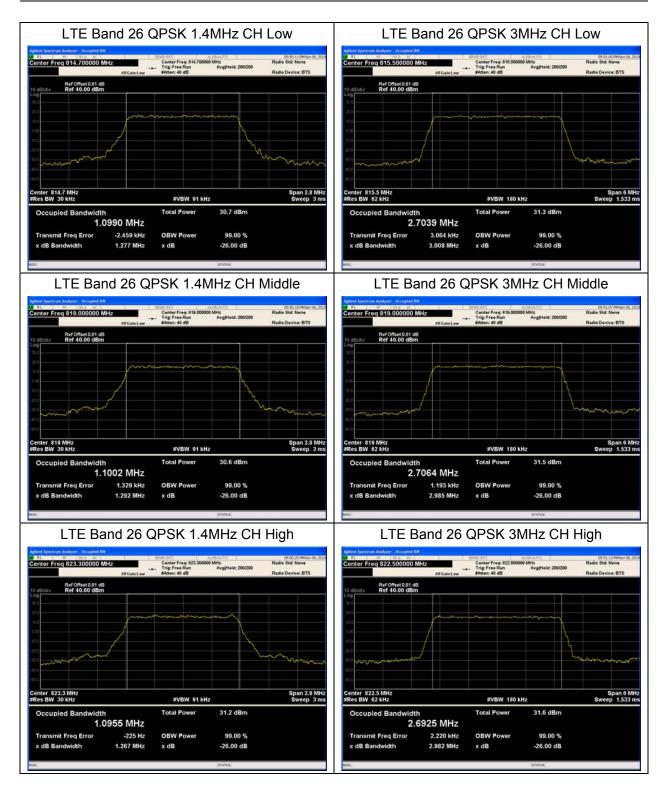


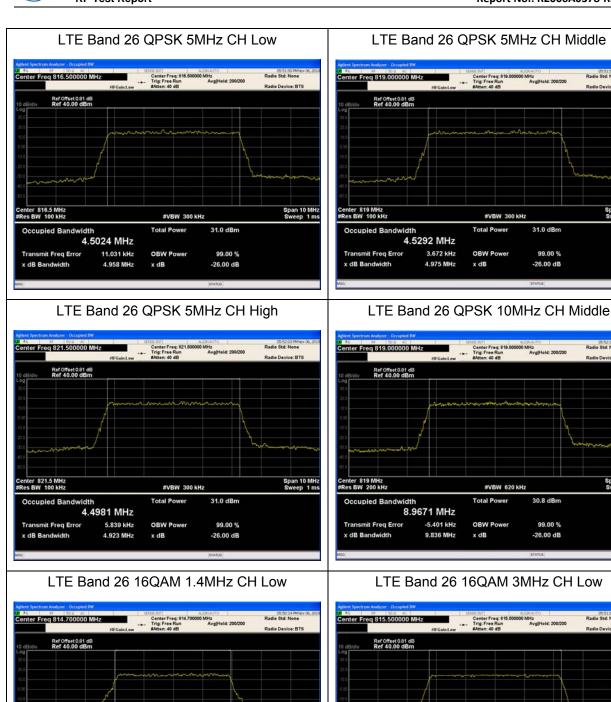
Test Result

	LTE Band 26												
RB	Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	99% Power Bandwidth(MHz)	-26dBc Bandwidth(MHz)							
			26697	814.7	1.0990	1.277							
		1.4	26740	819	1.1002	1.292							
			26783	823.3	1.0955	1.267							
			26705	815.5	2.7039	3.008							
	QPSK	3	26740	819	2.7064	2.985							
	QPSK		26775	822.5	2.6925	2.982							
		5	26715	816.5	4.5024	4.958							
			26740	819	4.5292	4.975							
			26765	821.5	4.4981	4.923							
100%		10	26740	819	8.9671	9.836							
100%		1.4	26697	814.7	1.1021	1.303							
			26740	819	1.0897	1.271							
			26783	823.3	1.0973	1.279							
			26705	815.5	2.6959	2.976							
	16QAM	3	26740	819	2.6954	2.939							
	IOQAIVI		26775	822.5	2.6949	2.995							
			26715	816.5	4.5276	4.997							
		5	26740	819	4.5051	4.966							
			26765	821.5	4.5004	4.954							
		10	26740	819	8.9183	9.795							

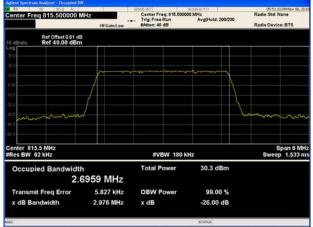








LTE Band 26 16QAM 3MHz CH Low



1.1021 MHz

-3.324 kHz

#VBW 91 kHz

OBW Power

30.0 dBm

99.00 %

Center 814.7 MHz Res BW 30 kHz

Occupied Bandy

mit Freq Error

05:51:56 PMNo Radio Std: None

Span 10 MH Sweep 1 m

Span 20 MH Sweep 1 m

99.00 %

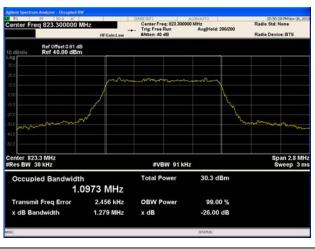
99.00 %

-26.00 dB

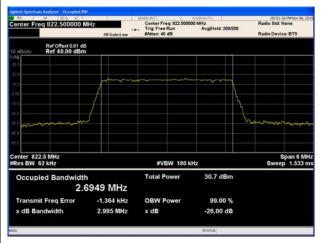
Span 2.8 MHz Sweep 3 ms

LTE Band 26 16QAM 1.4MHz CH Middle Ref Offset 0.81 dB Ref 40.00 dBm enter 819 MHz Res BW 30 kHz Span 2.8 MHz Sweep 3 ms #VBW 91 kHz Occupied Bandwidth 1.0897 MHz -1.994 kHz **OBW Power** Transmit Freq Error 99.00 % 1.271 MHz -26.00 dB LTE Band 26 16QAM 1.4MHz CH High nter Freq 823.300000 MHz Ref Offset 0.81 dB Ref 40.00 dBm

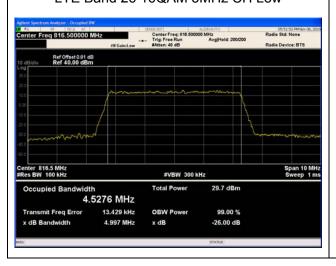




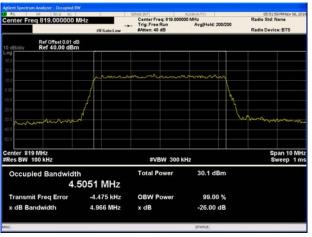
LTE Band 26 16QAM 3MHz CH High



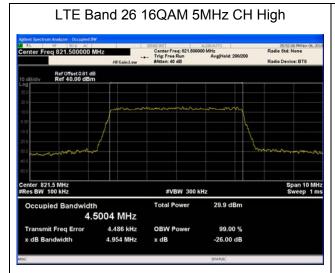
LTE Band 26 16QAM 5MHz CH Low

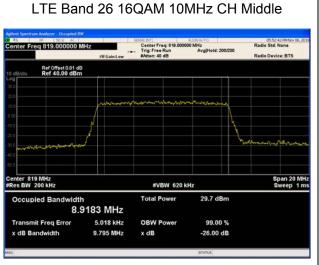


LTE Band 26 16QAM 5MHz CH Middle











5.3. Emission Mask

Ambient condition

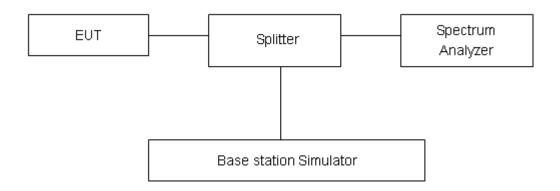
Temperature	Relative humidity
21°C ~25°C	40%~60%

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The band edge of the lowest and highest channels were measured. The average detector is used. RBW is set to $\geq 1\%$ EBW, VBW is set to $\geq 3x$ RBW.

Spectrum analyzer plots are included on the following pages.

Test Setup



Limits

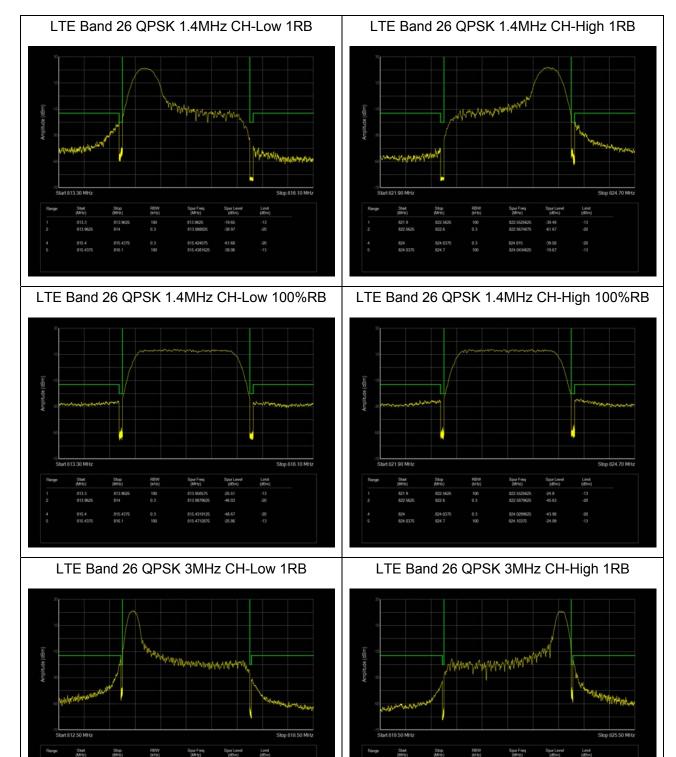
Rule Part 90.691(a) specifies that "For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 $\log_{10}(f/6.1)$ decibels or 50 + 10 $\log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz."

Measurement Uncertainty

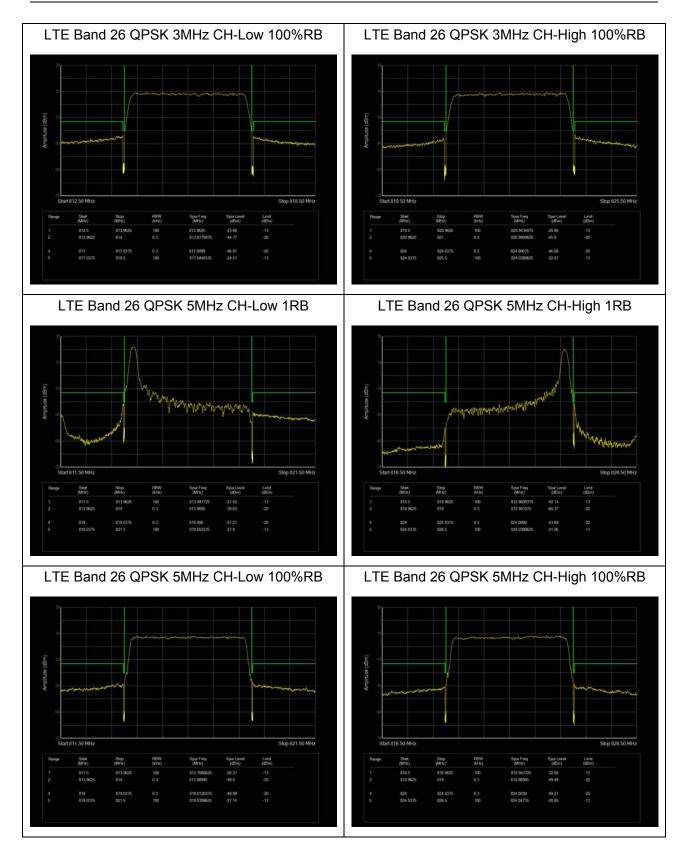
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96, U=0.684dB.

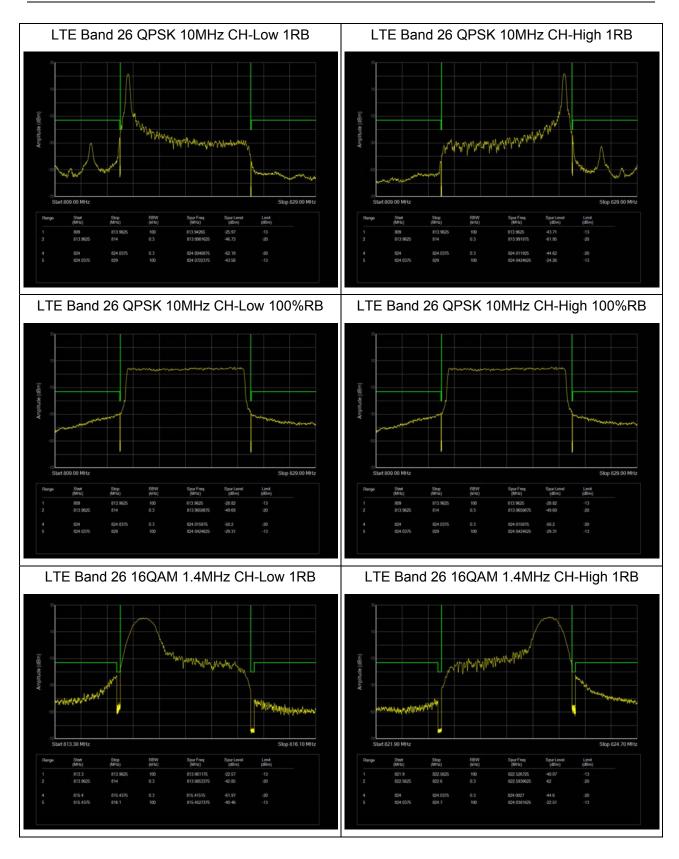


Test Result:

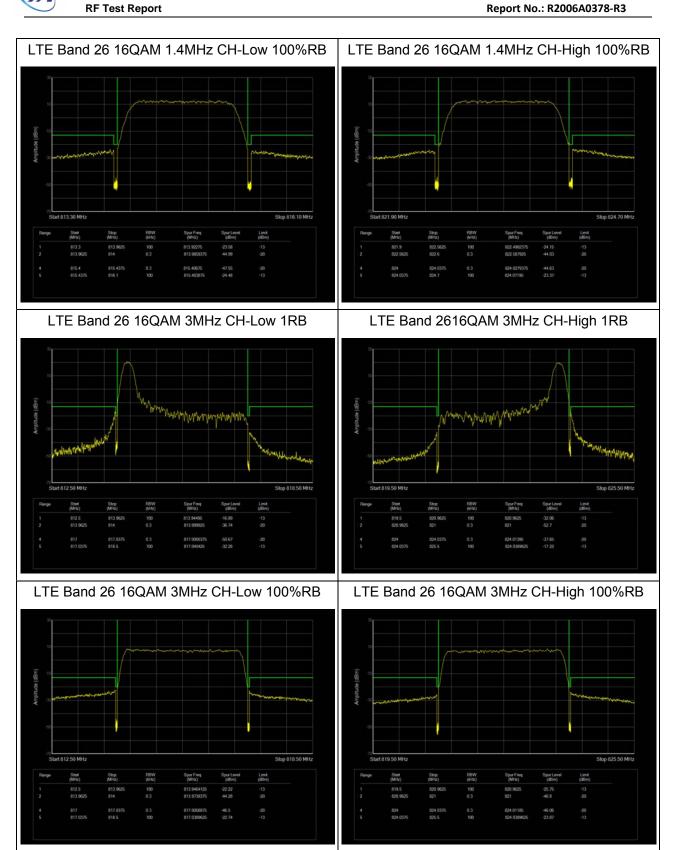




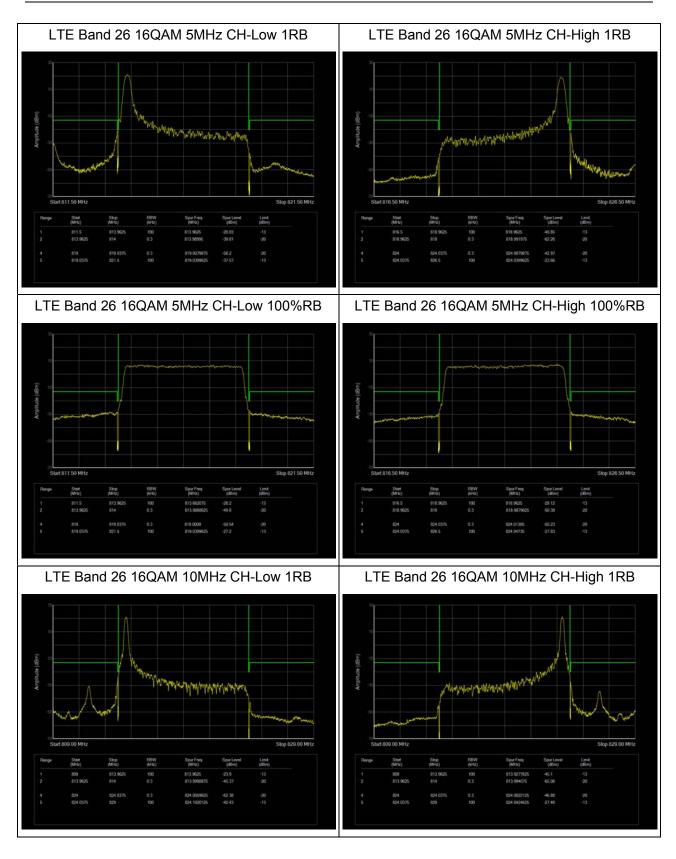


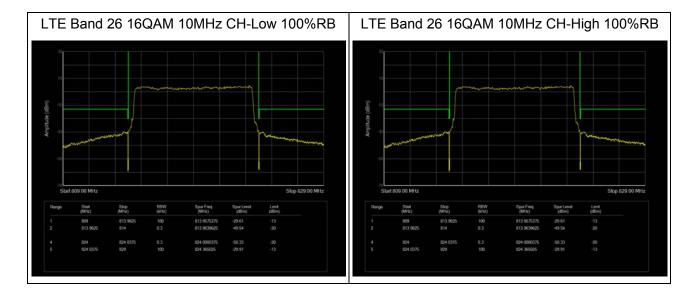












5.4. Peak-to-Average Power Ratio (PAPR)

Ambient condition

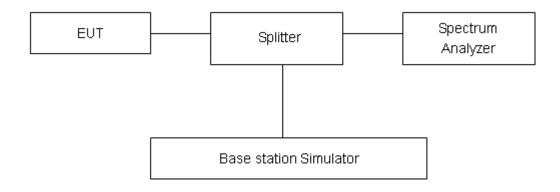
Temperature	Relative humidity
21°C ~25°C	40%~60%

Methods of Measurement

Measure the total peak power and record as PPk. And measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (*e.g.*, dBm). Determine the PAPR from:

PAPR(dB) = PPk(dBm) - PAvg(dBm).

Test Setup



Limits

In measuring transmissions in this band using an average power technique, the peakto-average ratio (PAR) of the transmission may not exceed 13 dB in 24.232(d).

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 2, U = 0.4 dB.



Test Results

LTE Band 26								
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Limit (dB)	Conclusion
		26797	824.7	27.80	22.60	5.20	≤13	PASS
	1.4	26915	836.5	28.00	22.84	5.16	≤13	PASS
		27033	848.3	28.30	22.98	5.32	≤13	PASS
		26805	825.5	28.01	22.78	5.23	≤13	PASS
ODOK	3	26915	836.5	28.11	22.83	5.28	≤13	PASS
QPSK		27025	847.5	28.23	22.90	5.33	≤13	PASS
		26815	826.5	28.09	22.88	5.21	≤13	PASS
5	5	26915	836.5	28.04	22.78	5.26	≤13	PASS
		27015	846.5	28.17	22.86	5.31	≤13	PASS
	10	26915	836.5	28.08	22.86	5.22	≤13	PASS
		26797	824.7	27.70	21.72	5.98	≤13	PASS
	1.4	26915	836.5	28.09	22.04	6.05	≤13	PASS
		27033	848.3	28.14	21.99	6.15	≤13	PASS
		26805	825.5	27.89	21.83	6.06	≤13	PASS
10000	3	26915	836.5	27.86	21.67	6.19	≤13	PASS
ToQAW	16QAM5	27025	847.5	27.97	21.79	6.18	≤13	PASS
		26815	826.5	27.85	21.85	6.00	≤13	PASS
		26915	836.5	27.99	21.92	6.07	≤13	PASS
		27015	846.5	28.03	21.91	6.12	≤13	PASS
	10	26915	836.5	27.96	21.91	6.05	≤13	PASS



5.5. Frequency Stability

Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

Method of Measurement

1. Frequency Stability (Temperature Variation)

The temperature inside the climate chamber is varied from -40°C to +85°C in 10°C step size,

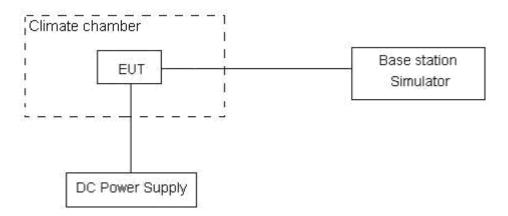
- (1) With all power removed, the temperature was decreased to 0°C and permitted to stabilize for three hours.
- (2) Measure the carrier frequency with the test equipment in a "call mode". These measurements should be made within 1 minute of powering up the mobile station, to prevent significant self warming.
- (3) Repeat the above measurements at 10°C increments from -40°C to +85°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements.
- 2. Frequency Stability (Voltage Variation)

The frequency stability shall be measured with variation of primary supply voltage as follows:

- (1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.
- (2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery-operating end point which shall be specified by the manufacturer.

This transceiver is specified to operate with an input voltage of between 3.3 V and 4.3 V, with a nominal voltage of 3.8V

Test setup



TA Technology (Shanghai) Co., Ltd.

TA-MB-04-010R



Limits

According to the Sec. 90.213.(a) Unless noted elsewhere, transmitters used in the services governed by this part must have a minimum frequency stability as specified in the following table.

Minimum Frequency Stability

[Parts per million (ppm)]

		Mobile stations		
Frequency range	Fixed and base	Over 2 watts output	2 watts or less output	
(MHz)	stations	power	power	
814 ~ 824	1.5	2.5	2.5	

Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor k = 3, U = 0.01ppm.

Test Result

		LTI	E Band 26			
Condition	1.4MHz	Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability (ppm)	Frequency Stability (ppm)	Verdict
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)		10.00	11.88	0.00532	0.00632	PASS
Extreme (85°C)		2.70	17.85	0.00144	0.00949	PASS
Extreme (80°C)		4.35	7.75	0.00232	0.00412	PASS
Extreme (70°C)		4.10	5.01	0.00218	0.00266	PASS
Extreme (60°C)		1.00	1.39	0.00053	0.00074	PASS
Extreme (50°C)		9.61	16.45	0.00511	0.00875	PASS
Extreme (40°C)		4.12	8.49	0.00219	0.00451	PASS
Extreme (30°C)	Normal	6.85	6.27	0.00364	0.00333	PASS
Extreme (20°C)		2.01	17.84	0.00107	0.00949	PASS
Extreme (10°C)		12.56	1.61	0.00668	0.00086	PASS
Extreme (0°C)		14.43	9.06	0.00767	0.00482	PASS
Extreme (-10°C)		15.21	8.54	0.00809	0.00454	PASS
Extreme (-20°C)		16.95	15.74	0.00902	0.00837	PASS
Extreme (-30°C)		13.97	17.54	0.00743	0.00933	PASS
Extreme (-40°C)		13.94	12.87	0.00741	0.00685	PASS
25 ℃	LV	15.99	7.73	0.00851	0.00411	PASS
25 0	HV	17.83	13.49	0.00948	0.00718	PASS
Condition		Freq.Error (Hz)	Freq.Error (Hz)	Frequency Stability	Frequency Stability	Verdict
BANDWIDTH	3MHz			(ppm)	(ppm)	
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)		17.62	17.53	0.00937	0.00932	PASS
Extreme (85°C)		13.00	17.16	0.00692	0.00913	PASS
Extreme (80°C)		16.15	5.80	0.00859	0.00309	PASS
Extreme (70°C)		11.69	3.42	0.00622	0.00182	PASS
Extreme (60°C)		17.97	10.12	0.00956	0.00538	PASS
Extreme (50°C)		9.27	10.13	0.00493	0.00539	PASS
Extreme (40°C)	Normal	16.22	9.76	0.00863	0.00519	PASS
Extreme (30°C)		3.36	11.08	0.00179	0.00589	PASS
Extreme (20°C)		2.51	8.55	0.00134	0.00455	PASS
Extreme (10°C)		4.10	9.25	0.00218	0.00492	PASS
Extreme (0°C)		14.00	11.81	0.00745	0.00628	PASS
Extreme (-10°C)		14.75	14.57	0.00785	0.00775	PASS
Extreme (-20°C)		2.25	17.29	0.00120	0.00919	PASS
Extreme (-30°C)		6.96	17.09	0.00370	0.00909	PASS

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	t				port No.: R2006A0	-
Extreme (-40°C)		11.50	14.24	0.00612	0.00757	PASS
25℃	LV	9.38	17.99	0.00499	0.00957	PASS
200	HV	3.98	1.75	0.00212	0.00093	PASS
Condition		Freq.Error	Freq.Error (Hz)	Frequency	Frequency	
Condition		(Hz)		Stability	Stability	Verdict
BANDWIDTH	5MHz	(112)		(ppm)	(ppm)	Verdict
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25°C)		13.75	12.20	0.00731	0.00649	PASS
Extreme (85°C)		14.44	7.52	0.00768	0.00400	PASS
Extreme (80°C)		15.16	12.40	0.00806	0.00660	PASS
Extreme (70°C)		15.31	6.55	0.00814	0.00349	PASS
Extreme (60°C)		15.33	8.03	0.00815	0.00427	PASS
Extreme (50°C)		11.31	6.83	0.00602	0.00364	PASS
Extreme (40°C)		11.97	7.95	0.00637	0.00423	PASS
Extreme (30°C)	Normal	6.77	8.74	0.00360	0.00465	PASS
Extreme (20°C)		16.76	15.13	0.00891	0.00805	PASS
Extreme (10°C)		8.83	6.65	0.00469	0.00354	PASS
Extreme (0°C)		11.02	17.50	0.00586	0.00931	PASS
Extreme (-10°C)		9.25	9.90	0.00492	0.00526	PASS
Extreme (-20℃)		14.12	15.51	0.00751	0.00825	PASS
Extreme (-30°C)		4.98	8.35	0.00265	0.00444	PASS
Extreme (-40°C)		14.55	11.22	0.00774	0.00597	PASS
25℃	LV	13.08	1.51	0.00696	0.00080	PASS
25 C	HV	11.91	14.54	0.00633	0.00773	PASS
Condition		Freg.Error	Erog Error	Frequency	Frequency	
Condition		(Hz)	Freq.Error (Hz)	Stability	Stability	Verdict
BANDWIDTH	10MHz	(112)	(112)	(ppm)	(ppm)	Verdict
Temperature	Voltage	16QAM	QPSK	16QAM	QPSK	
Normal (25℃)		14.54	8.00	0.00774	0.00425	PASS
Extreme (85°C)		17.11	17.91	0.00910	0.00952	PASS
Extreme (80°C)		3.56	14.46	0.00189	0.00769	PASS
Extreme (70°C)		13.57	12.05	0.00722	0.00641	PASS
Extreme (60°C)		11.50	12.03	0.00612	0.00640	PASS
Extreme (50°C)		8.20	15.65	0.00436	0.00832	PASS
Extreme (40°C)	Normal	1.89	6.06	0.00100	0.00322	PASS
Extreme (30°C)		10.38	3.64	0.00552	0.00194	PASS
Extreme (20°C)		8.73	17.25	0.00464	0.00918	PASS
Extreme (10°C)		10.15	7.35	0.00540	0.00391	PASS
Extreme (0°C)		6.16	10.47	0.00328	0.00557	PASS
Extreme (-10°C)		6.28	16.20	0.00334	0.00862	PASS
Extreme (-20°C)		7.78	1.58	0.00414	0.00084	PASS



RF Test Report

8.74 Extreme (-30°C) 2.33 0.00124 0.00465 **PASS** PASS Extreme (-40°C) 7.23 14.47 0.003850.00770 14.62 PASS LV 10.94 0.00582 0.00778 **25**℃ HV 15.86 11.66 0.00844 0.00620 **PASS**



5.6. Spurious Emissions at Antenna Terminals

Ambient condition

Temperature	Relative humidity	
21°C ~25°C	40%~60%	

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The measurement is carried out using a spectrum analyzer. The spectrum analyzer scans from 30MHz to the 10th harmonic of the carrier. The peak detector is used.

RBW is set to 1 kHz (0.009MHz~ 0.15 MHz),

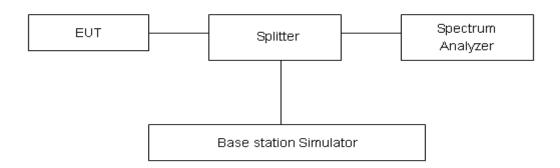
RBW is set to 10 kHz (0.15 MHz~ 30 MHz)

RBW is set to 100 kHz (30MHz~1000 MHz)

RBW is set to 1000 kHz (above 1000MHz)

Sweep is set to ATUO.

Test setup



Limits

Rule Part 90.691 specifies that "The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB."

Limit	12 dPm
LIIIIIL	-13 00111

Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor k = 1.96.

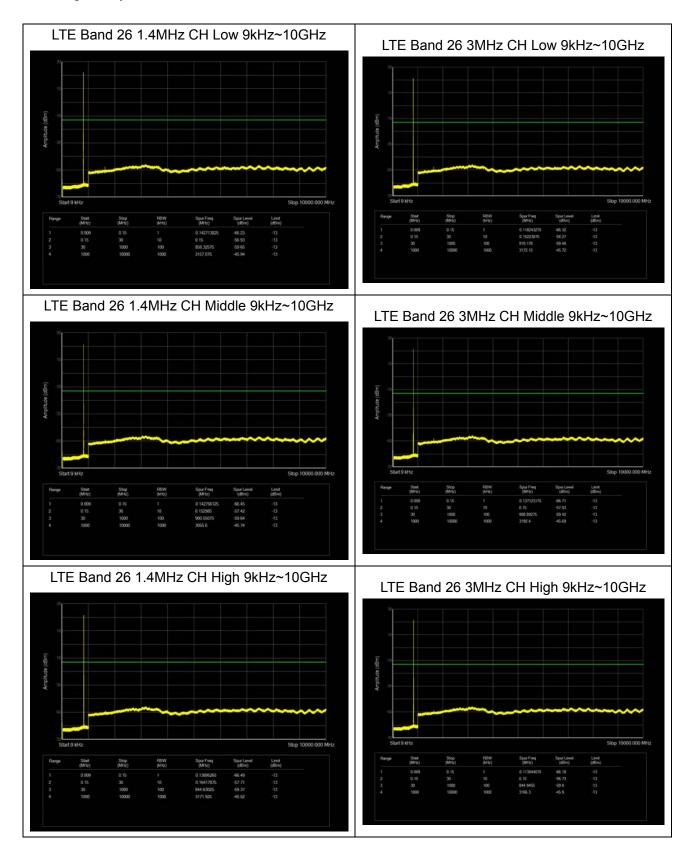
Frequency	Uncertainty
100kHz-1GHz	0.684 dB
1GHz-12.75GHz	1.407 dB

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Test Result

If disturbances were found more than 20dB below limit line, the mark is not required for the EUT. The signal beyond the limit is carrier.



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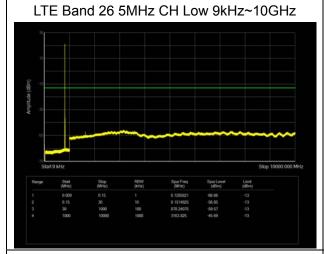
TA-MB-04-010R

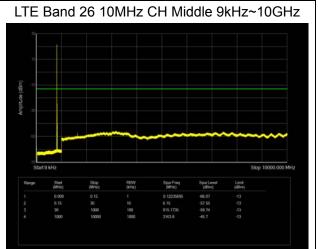
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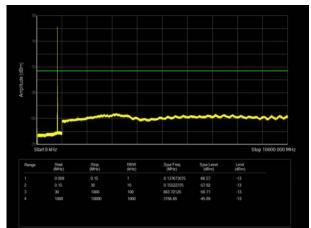




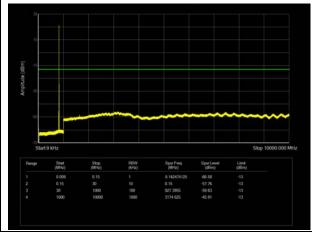




LTE Band 26 5MHz CH Middle 9kHz~10GHz



LTE Band 26 5MHz CH High 9kHz~10GHz



TA-MB-04-010R



5.7. Radiates Spurious Emission

Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

Method of Measurement

- 1. The testing follows FCC KDB 971168 v03r01 Section 5.8 and ANSI C63.26 (2015).
- 2. Below 1GHz: The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H). Above 1GHz: (Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.) The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).
- 3. A loop antenna, A log-periodic antenna or horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.

4. The EUT is then put into continuously transmitting mode at its maximum power level during the test.

- Set Test Receiver or Spectrum RBW=200Hz,VBW=600Hz for 9kHz150kHz, RBW=10kHz, VBW=30kHz 150kHz-30MHz, RBW=100kHz,VBW=300kHz for 30MHz to 1GHz and RBW=1MHz, VBW=3MHz for above 1GHz, And the maximum value of the receiver should be recorded as (Pr). 5. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
- 6. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (PcI) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
- 7. The measurement results are obtained as described below:

Power(EIRP)=PMea- PAg - Pcl + Ga

The measurement results are amend as described below:

Power(EIRP)=PMea- Pcl + Ga

8. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi)

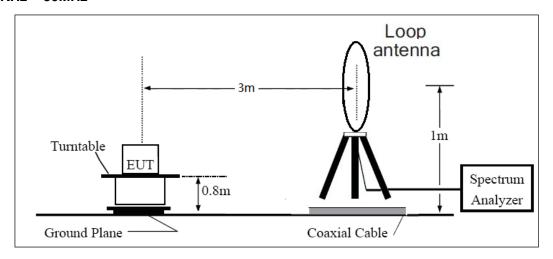


and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = FIRP-2 15dRi

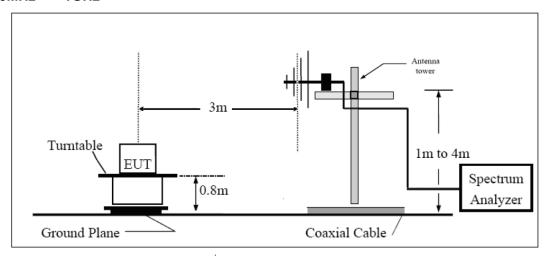
The modulation mode and RB allocation refer to section 5.1, using the maximum output power configuration.

Test setup

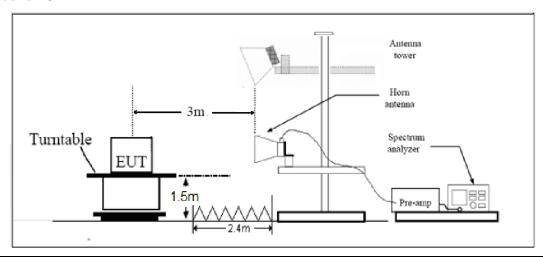
9KHz ~ 30MHz



30MHz~~~ 1GHz



Above 1GHz



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Limits

Rule Part 90.691 specifies that "The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB."

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96, U = 3.55 dB.



Test Result

Sweep the whole frequency band through the range from 30MHz to the 10th harmonic of the carrier, the emissions below the noise floor will not be recorded in the report.

LTE Band 26 1.4MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1663.00	-61.13	2.00	10.75	Horizontal	-54.53	-13.00	41.53	90
3	2494.50	-52.66	2.51	11.05	Horizontal	-46.27	-13.00	33.27	45
4	3326.00	-63.10	4.20	11.15	Horizontal	-58.30	-13.00	45.30	45
5	4157.50	-60.07	5.20	11.15	Horizontal	-56.27	-13.00	43.27	90
6	4989.00	-59.94	5.50	11.95	Horizontal	-55.64	-13.00	42.64	135
7	5820.50	-61.10	5.70	13.55	Horizontal	-55.40	-13.00	42.40	270
8	6652.00	-58.16	6.30	13.75	Horizontal	-52.86	-13.00	39.86	315
9	7483.50	-55.47	6.80	13.85	Horizontal	-50.57	-13.00	37.57	180
10	8315.00	-55.47	6.90	14.25	Horizontal	-50.27	-13.00	37.27	135

Note: 1.The other Spurious RF Radiated emissions level is no more than noise floor.

LTE Band 26 5MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1663.00	-62.38	2.00	10.75	Horizontal	-55.78	-13.00	42.78	135
3	2494.50	-53.75	2.51	11.05	Horizontal	-47.36	-13.00	34.36	270
4	3326.00	-62.66	4.20	11.15	Horizontal	-57.86	-13.00	44.86	0
5	4157.50	-60.41	5.20	11.15	Horizontal	-56.61	-13.00	43.61	45
6	4989.00	-60.42	5.50	11.95	Horizontal	-56.12	-13.00	43.12	90
7	5820.50	-61.43	5.70	13.55	Horizontal	-55.73	-13.00	42.73	180
8	6652.00	-57.56	6.30	13.75	Horizontal	-52.26	-13.00	39.26	90
9	7483.50	-55.54	6.80	13.85	Horizontal	-50.64	-13.00	37.64	270
10	8315.00	-55.28	6.90	14.25	Horizontal	-50.08	-13.00	37.08	0

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Horizontal position.

^{2.} The worst emission was found in the antenna is Horizontal position.



LTE Band 26 10MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1663.00	-64.55	2.00	10.75	Horizontal	-57.95	-13.00	44.95	315
3	2494.50	-60.15	2.51	11.05	Horizontal	-53.76	-13.00	40.76	0
4	3326.00	-62.32	4.20	11.15	Horizontal	-57.52	-13.00	44.52	315
5	4157.50	-60.42	5.20	11.15	Horizontal	-56.62	-13.00	43.62	135
6	4989.00	-60.60	5.50	11.95	Horizontal	-56.30	-13.00	43.30	45
7	5820.50	-61.56	5.70	13.55	Horizontal	-55.86	-13.00	42.86	0
8	6652.00	-57.94	6.30	13.75	Horizontal	-52.64	-13.00	39.64	135
9	7483.50	-54.80	6.80	13.85	Horizontal	-49.90	-13.00	36.90	45
10	8315.00	-55.47	6.90	14.25	Horizontal	-50.27	-13.00	37.27	90

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

^{2.} The worst emission was found in the antenna is Horizontal position.



6. Main Test Instruments

Date of Testing: October 22, 2019 ~ November 9, 2019

Name	Manufacturer	Туре	Serial Number	Calibration Date	Expiration Date
Base Station Simulator	R&S	CMW500	113824	2019-05-19	2020-05-18
Power Splitter	Hua Xiang	SHX-GF2-2-13	10120101	1	/
Spectrum Analyzer	Agilent	N9010A	MY50210259	2019-05-19	2020-05-18
Signal Analyzer	R&S	FSV30	100815	2018-12-16	2019-12-15
Trilog Antenna	SCHWARZBECK	VUBL 9163	9163-201	2017-11-18	2020-11-17
Horn Antenna	R&S	HF907	102723	2018-08-11	2021-08-10
Signal generator	R&S	SMF 100A	102235	2019-05-19	2020-05-18
Climatic Chamber	ESPEC	SU-242	93000506	2017-12-17	2020-12-16
RF Cable	Agilent	SMA 15cm	0001	2019-06-14	2019-12-13
Software	R&S	EMC32	9.26.0	/	1



Date of Testing: June 29, 2020 and August 21,2020

Name	Manufacturer	Туре	Serial Number	Calibration Date	Expiration Date
Base Station Simulator	R&S	CMW500	113824	2020-05-18	2021-05-17
Power Splitter	Hua Xiang	SHX-GF2-2-13	10120101	1	1
Spectrum Analyzer	Agilent	N9010A	MY50210259	2020-05-18	2021-05-17
Signal Analyzer	R&S	FSV30	100815	2019-12-15	2020-12-14
Trilog Antenna	SCHWARZBECK	VUBL 9163	9163-201	2017-11-18	2020-11-17
Horn Antenna	R&S	HF907	102723	2018-08-11	2021-08-10
Signal generator	R&S	SMF 100A	102235	2020-05-18	2021-05-17
Climatic Chamber	ESPEC	SU-242	93000506	2017-12-17	2020-12-16
RF Cable	Agilent	SMA 15cm	0001	2020-6-12	2020-12-11
Software	R&S	EMC32	9.26.0	1	1

*****END OF REPORT *****