

Report No.: FG9D0616-05D



## FCC RADIO TEST REPORT

FCC ID : A4RG025J

Equipment : Phone

Model Name : G025J, G025N, G025M

Applicant : Google LLC

1600 Amphitheatre Parkway,

Mountain View, California, 94043 USA

Standard : FCC 47 CFR Part 2, and 90(S)

The product was received on Jan. 20, 2020 and testing was started from Jan. 21, 2020 and completed on Mar. 19, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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**Appendix A. Test Results of Conducted Test** 

Appendix B. Test Results of ERP and Radiated Test

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## History of this test report

Report No.: FG9D0616-05D

Report No.	Version	Description	Issued Date
FG9D0616-05D	01	Initial issue of report	Mar. 24, 2020

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## **Summary of Test Result**

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark		
3.2	§2.1046 §90.635	Conducted Output Power and Effective Radiated Power	Pass	-		
3.3	-	Peak-to-Average Ratio	Reporting only	-		
3.4	§2.1049 §90.209	Occupied Bandwidth and 26dB Bandwidth	Reporting only	-		
3.5	§2.1051 §90.691	Emission masks – In-band emissions	Pass	-		
3.6	§2.1051 §90.691	Emission masks – Out of band emissions	Pass	-		
3.7	§2.1055 §90.213			-		
3.8	§2.1053 §90.691	§2.1053 Field Strength of Spurious Radiation		Under limit 41.00 dB at 2472.000 MHz for Primary Antenna Under limit 34.63 dB at 2488.000 MHz for ASDIV Antenna		

#### **Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

#### **Comments and Explanations:**

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.

Reviewed by: Wii Chang Report Producer: Yimin Ho

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## 1 General Description

## 1.1 Feature of Equipment Under Test

Product Feature								
Equipment	Phone							
Model Name	G025J, G025N, G025M							
FCC ID	A4RG025J							
EUT supports Radios application	CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE/NFC/GNSS WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE							
EUT Stage	Identical Prototype							

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**Remark:** The above EUT's information was declared by manufacturer.

EUT Information List								
S/N	Performed Test Item							
01021FQC200422	Conducted Measurement ERP/EIRP							
01021FQC200313	Radiated Spurious Emission							

## 1.2 Product Specification of Equipment Under Test

Product Specification subjective to this standard								
Tx Frequency	814.7 ~ 823.3 MHz							
Rx Frequency	859.7 ~ 868.3 MHz							
Bandwidth	1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz							
Maximum Output Power to Antenna	<primary antenna=""> 24.98 dBm</primary>							
Maximum Output Power to Antenna	<asdiv antenna=""> 24.66 dBm</asdiv>							
Antonno Type / Coin	<primary antenna="">: PIFA Antenna</primary>							
Antenna Type / Gain	<a>ASDIV Antenna&gt;: PIFA Antenna</a>							
Type of Modulation	QPSK / 16QAM / 64QAM							

#### <Primary Antenna>

Radio Tech	Band Number	Antenna name	Gain
LTE	B26	ANT0	-2.2

#### <ASDIV Antenna>

Radio Tech	Band Number	Antenna name	Gain		
LTE	B26	ANT1	-3.5		

#### 1.3 Modification of EUT

No modifications are made to the EUT during all test items.

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#### 1.4 Testing Site

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory			
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978			
Test Site No.	Sporton Site No.			
rest site No.	TH05-HY			
Test Engineer	Aking Chang			
Temperature	24~26°C			
Relative Humidity	54~58%			

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Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory				
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855				
Test Site No.	Sporton Site No.				
rest site No.	03CH13-HY				
Test Engineer	Jimmy Chung, Karl Hou and Wilson W				
Temperature	21.5~23.5°C				
Relative Humidity	49.5~55.5%				

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW0007

## 1.5 Applied Standards

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

- FCC 47 CFR Part 2, 90
- ANSI / TIA-603-E
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- FCC KDB 414788 D01 Radiated Test Site v01r01
- Interim Guidance for Equipment Authorization of Devices with Channel Bandwidths Combined Across Two Contiguous Service Rule Allocations OET/Lab/EACB, June 6, 2013

#### Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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## 2 Test Configuration of Equipment Under Test

#### 2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X Plane With Accessory for Primary Antenna and Z Plane With Accessory for ASDIV Antenna) were recorded in this report.

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Frequency range investigated for radiated emission is 30 MHz to 9000 MHz.

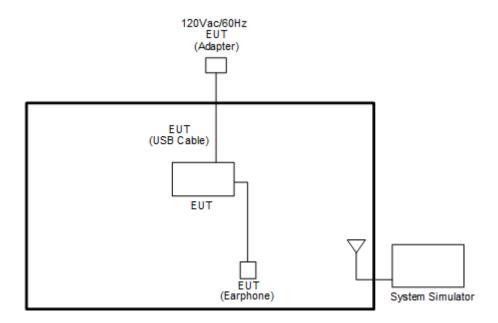
#### <Charging Mode>

LTE Band 26
X Plane With Accessory for Ant. 0
Z Plane With Accessory for Ant. 1

		•														
Conducted	Band		Ba	andwic	dth (Mi	Hz)		Modulation			RB#			Test Channel		
Test Cases	Бапи	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	Н
Max. Output Power	26	v	v	v	v	v	-	v	v	v	٧	v	v	V	٧	٧
Peak-to-Average Ratio	26					v	-	v	v	v	٧		v	v	v	v
26dB and 99% Bandwidth	26	v	v	v	v	v	-	v	v	v			v	V	v	v
Emission masks In-band emissions	26	v	v	v	v	v	-	v	v	v	>		v	V		v
Emission masks – Out of band emissions	26	v	v	v	v	v	-	v	v	v	>			v	٧	V
Frequency Stability	26	-	-		v	v	-	v	v	v			v		٧	
E.R.P.	26					v	-	v	v	v	>			v	>	<b>v</b>
Radiated Spurious Emission	26	Worst Case v v v									٧					
Remark	2. TI 3. LT EI fre	<ol> <li>The mark "-" means that this bandwidth is not supported.</li> <li>LTE Band26 transmit frequency for part22 rule is 824MHz-849MHz, for part90 rule is 814MHz-824MHz.         ERP over 15MHz bandwidth complies the ERP limit line of part22 rule, therefore ERP of the partial frequency spectrum which falls within part 22 also complies.     </li> </ol>														

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#### 2.2 Connection Diagram of Test System



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#### 2.3 Support Unit used in test configuration and system

I	tem	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
	1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

## 2.4 Measurement Results Explanation Example

#### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 4.2 dB and a 10dB attenuator.

#### Example:

 $Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$ 

$$= 4.2 + 10 = 14.2 (dB)$$

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## 2.5 Frequency List of Low/Middle/High Channels

LTE Band 26 Channel and Frequency List											
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest							
15	Channel	26765	-	-							
15	Frequency	821.5	-	-							
40	Channel	-	26740	-							
10	Frequency	-	819	-							
5	Channel	26715	26740	26765							
5	Frequency	816.5	819	821.5							
2	Channel	26705	26740	26775							
3	Frequency	815.5	819	822.5							
1.4	Channel	26697	26740	26783							
1.4	Frequency	814.7	819	823.3							

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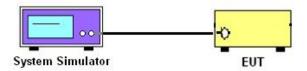
#### 3 Conducted Test Items

## 3.1 Measuring Instruments

See list of measuring instruments of this test report.

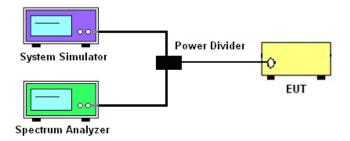
#### 3.1.1 Test Setup

#### 3.1.2 Conducted Output Power

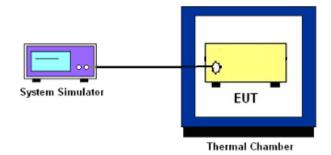


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# 3.1.3 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge, Emission Mask, Emissions Mask – Out Of Band Emissions, and Conducted Spurious Emission



#### 3.1.4 Frequency Stability



#### 3.1.5 Test Result of Conducted Test

Please refer to Appendix A.

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#### 3.2 Conducted Output Power Measurement and ERP Measurement

## 3.2.1 Description of the Conducted Output Power Measurement and ERP Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

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The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 26.

According to KDB 412172 D01 Power Approach,

 $EIRP = P_T + G_T - L_C$ , where

 $P_T$  = transmitter output power in dBm

 $G_T$  = gain of the transmitting antenna in dBi

L<sub>C</sub> = signal attenuation in the connecting cable between the transmitter and antenna in dB

#### 3.2.2 Test Procedures

- 1. The transmitter output port was connected to the system simulator.
- 2. Set EUT at maximum power through system simulator.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure and record the power level from the system simulator.

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#### 3.3 Peak-to-Average Ratio

#### 3.3.1 Description of the PAR Measurement

Reporting only

#### 3.3.2 Test Procedures

- 1. The EUT was connected to spectrum and system simulator via a power divider.
- 2. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.

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- 3. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
- 4. Record the deviation as Peak to Average Ratio.

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#### 3.4 99% Occupied Bandwidth and 26dB Bandwidth Measurement

#### 3.4.1 Description of (Occupied) Bandwidth Limitations Measurement

The 99% occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

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The emission bandwidth is defined as the width of the signal between two points, located at the 2 sides of the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

#### 3.4.2 Test Procedures

- 1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 2. The 26dB and 99% occupied bandwidth (BW) of the middle channel for the highest RF power with full RB sizes were measured.

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#### 3.5 Emissions Mask Measurement

#### 3.5.1 Description of Emissions Mask Measurement

Equipment used in this licensed to EA or non-EA systems shall comply with the emission mask provisions of FCC Part 90.691.(a)

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- (a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:
- (1) 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.
- (2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \text{Log}_{10}$  (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 37.5 kHz.

#### 3.5.2 Test Procedures

- 1. The EUT was connected to spectrum analyzer and base station via power divider.
- 2. The emissions mask of low and high channels for the highest RF powers were measured.
- 3. Set RBW and VBW 3 times of RBW to make the measurement with the spectrum analyzer's, and according to KDB 971168 D02 Misc Rev Approve License Devices v02r01 standards, set RBW = 300 Hz to make offsets less than 37.5 kHz from a channel edge, RBW = 100 kHz to make offsets greater than 37.5 kHz, that is allowed.
- 4. The test results were shown below plots with a correction offset factor including cable loss, insertion loss of power divider.

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#### 3.6 Emissions Mask - Out Of Band Emissions Measurement

#### 3.6.1 Description of Conducted Emissions Out of band emissions measurement

The power of any emission FCC Part 90.691 (a)(2) on any frequency removed from the assigned frequency by out of the authorized bandwidth at least 43 + 10 log (P) dB. It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10<sup>th</sup> harmonic.

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#### 3.6.2 Test Procedures

- 1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. The middle channel for the highest RF power within the transmitting frequency was measured.
- 4. The conducted spurious emission for the whole frequency range was taken.
- 5. For testing below 1GHz, make the measurement with the spectrum analyzer's RBW = 100 kHz, VBW = 3MHz, taking the record of maximum spurious emission.
- 6. For testing above 1GHz, make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 8. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

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## 3.7 Frequency Stability Measurement

#### 3.7.1 Description of Frequency Stability Measurement

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

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#### 3.7.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.7.3 Test Procedures for Temperature Variation

- 1. The EUT was set up in the thermal chamber and connected with the base station.
- 2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized for three hours. Power was applied and the maximum change in frequency was recorded within one minute.
- 3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

#### 3.7.4 Test Procedures for Voltage Variation

- 1. The EUT was placed in a temperature chamber at 20±5° C and connected with the base station.
- The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
- 3. The variation in frequency was measured for the worst case.

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#### 3.8 Field Strength of Spurious Radiation Measurement

#### 3.8.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. The power of any emission FCC Part 90.691 on any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

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The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43+10log<sub>10</sub>(P[Watts]) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

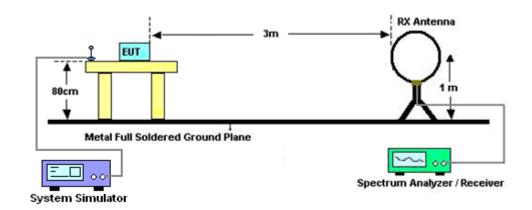
#### 3.8.2 Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. For testing below 1GHz, make the measurement with the spectrum analyzer's RBW = 100 kHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- 6. For testing above 1GHz, make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
- 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 9. Taking the record of output power at antenna port.
- 10. Repeat step 7 to step 8 for another polarization.
- 11. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 12. ERP (dBm) = EIRP 2.15
- 13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

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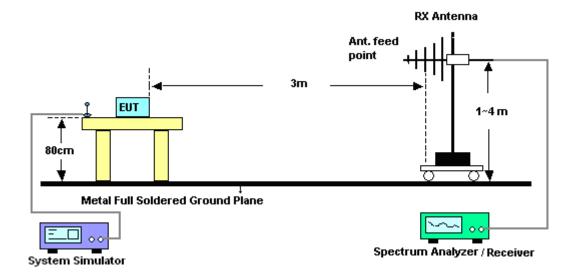
#### 3.8.3 Test Setup

#### For radiated emissions below 30MHz



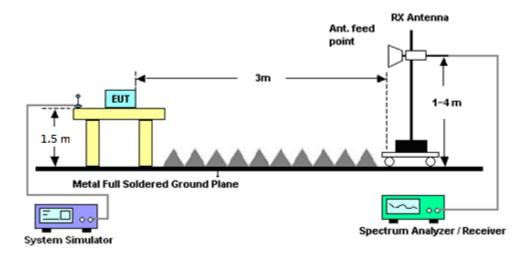
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#### For radiated test from 30MHz to 1GHz



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#### For radiated test above 1GHz



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#### 3.8.4 Test Result of Field Strength of Spurious Radiated

Please refer to Appendix B.

#### Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

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## 4 List of Measuring Equipment

					Calibration			
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Date	Test Date	Due Date	Remark
Amplifier	Sonoma-Instru ment	310 N	187282	9KHz~1GHz	Dec. 17, 2019	Jan. 21, 2020~ Mar. 19, 2020	Dec. 16, 2020	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	40103&07	30MHz to 1GHz	Apr. 30, 2019	Jan. 21, 2020~ Mar. 19, 2020	Apr. 29, 2020	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	41912 & 07	30MHz to 1GHz	Apr. 30, 2019	Jan. 21, 2020~ Mar. 19, 2020	Apr. 29, 2020	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-124 1	1GHz ~ 18GHz	Jul. 02, 2019	Jan. 21, 2020~ Mar. 19, 2020	Jul. 01, 2020	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-121 2	1GHz ~ 18GHz	May 14, 2019	Jan. 21, 2020~ Mar. 19, 2020	May 13, 2020	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	1GHz~18GHz	May 20, 2019	Jan. 21, 2020~ Mar. 19, 2020	May 19, 2020	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY532701 47	1GHz~26.5GHz	Oct. 28, 2019	Jan. 21, 2020~ Mar. 19, 2020	Oct. 27, 2020	Radiation (03CH13-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	Aug. 27, 2019	Jan. 21, 2020~ Mar. 19, 2020	Aug. 26, 2020	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY553705 26	10Hz~44GHz	Mar. 19, 2019	Jan. 21, 2020~ Mar. 17, 2020	Mar. 18, 2020	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY542004 85	10Hz~44GHz	Feb. 10, 2020	Mar. 18, 2020~ Mar. 19, 2020	Feb. 09, 2021	Radiation (03CH13-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Jan. 21, 2020~ Mar. 19, 2020	N/A	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1m~4m	N/A	Jan. 21, 2020~ Mar. 19, 2020	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Jan. 21, 2020~ Mar. 19, 2020	N/A	Radiation (03CH13-HY)
Software	Audix	E3 6.2009-8-24	RK-00099 2	N/A	N/A	Jan. 21, 2020~ Mar. 19, 2020	N/A	Radiation (03CH13-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 13, 2019	Jan. 21, 2020~ Mar. 19, 2020	Dec. 12, 2020	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SF102/2*11S K252	MY4278/2	9kHz~40GHz	May 16, 2019	Jan. 21, 2020~ Mar. 19, 2020	May 15, 2020	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY36980/ 4	30M-18G	Apr. 15, 2019	Jan. 21, 2020~ Mar. 19, 2020	Apr. 14, 2020	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30M~40GHz	Mar. 13, 2019	Jan. 21, 2020~ Mar. 11, 2020	Mar. 12, 2020	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30M~40GHz	Mar. 12, 2020	Mar. 13, 2020~ Mar. 19, 2020	Mar. 11, 2021	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 584	18GHz- 40GHz	Dec. 10, 2019	Jan. 21, 2020~ Mar. 19, 2020	Dec. 09, 2020	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 576	18GHz~40GHz	May 14, 2019	Jan. 21, 2020~ Mar. 19, 2020	May 13, 2020	Radiation (03CH13-HY)

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Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Filter	Wainwright	WHKX12-270 0-3000-18000 -60SS	SN2	3GHz High Pass Filter	Jul. 14, 2019	Jan. 21, 2020~ Mar. 19, 2020	Jul. 13, 2020	Radiation (03CH13-HY)
Filter	Wainwright	WHKX12-108 0-1200-15000 -60SS	SN3	1.2GHz High Pass Filter	Jul. 03, 2019	Jan. 21, 2020~ Mar. 19, 2020	Jul. 02, 2020	Radiation (03CH13-HY)
Hygrometer	TECPEL	DTM-303B	TP157151	N/A	Jun. 17, 2019	Jan. 21, 2020~ Mar. 19, 2020	Jun. 16, 2020	Radiation (03CH13-HY)
Base Station (Measure)	Anritsu	MT8821C	620166475 5	GSM / GPRS /WCDMA / LTE FDD/TDD with 44) /LTE-3CC DLCA,2CC ULCA	Mar. 03, 2019	Jan. 23, 2020~ Feb. 29, 2020	Mar. 02, 2020	Conducted (TH05-HY)
Base Station (Measure)	Anritsu	MT8821C	626202535 3	N/A	Oct. 24, 2019	Mar. 06, 2020~ Mar. 19, 2020	Oct. 23, 2020	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 15, 2019	Jan. 23, 2020~ Mar. 19, 2020	Nov. 14, 2020	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40°C ~90°C	Sep. 02, 2019	Jan. 23, 2020~ Mar. 19, 2020	Sep. 01, 2020	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890094	1V~20V 0.5A~5A	Oct. 09, 2019	Jan. 23, 2020~ Mar. 19, 2020	Oct. 08, 2020	Conducted (TH05-HY)
Coupler	Warison	20dB 25W SMA Directional Coupler	#A	1-18GHz	Jan. 13, 2020	Jan. 23, 2020~ Mar. 19, 2020	Jan. 12, 2021	Conducted (TH05-HY)

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## 5 Uncertainty of Evaluation

#### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of	3.21
Confidence of 95% (U = 2Uc(y))	·

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#### **Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)**

Measuring Uncertainty for a Level of	3.24
Confidence of 95% (U = 2Uc(y))	3.24

#### <u>Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)</u>

Measuring Uncertainty for a Level of	3.00
Confidence of 95% (U = 2Uc(y))	3.99

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## **Appendix A. Test Results of Conducted Test**

## Conducted Output Power(Average power)

## <Primary Antenna>

LTE Band 26 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest		
15	1	0		24.85	-	-		
15	1	37		24.92	-	-		
15	1	74	QPSK	24.98	-	-		
15	36	0		23.99	-	-		
15	36	20		24.01	-	-		
15	36	39		24.00	-	-		
15	75	0		23.99	-	-		
15	1	0		24.18	-	-		
15	1	37		24.24	-	-		
15	1	74		24.27	-	-		
15	36	0	16-QAM	23.09	-	-		
15	36	20		23.09	-	-		
15	36	39		23.13	-	-		
15	75	0		23.06	-	-		
15	1	0		23.10	-	-		
15	1	37		23.16	-	-		
15	1	74		23.16	-	-		
15	36	0	64-QAM	22.11	-	-		
15	36	20		22.11	-	-		
15	36	39		22.17	-	-		
15	75	0		22.05	-	-		
10	1	0		-	24.79	-		
10	1	25		-	24.87	-		
10	1	49		-	24.81	-		
10	25	0	QPSK	-	23.93	-		
10	25	12		-	23.93	-		
10	25	25		-	23.88	-		
10	50	0		-	23.94	-		
10	1	0		-	24.10	-		
10	1	25		-	24.13	-		
10	1	49		-	24.13	-		
10	25	0	16-QAM	-	23.05	-		
10	25	12		-	23.03	-		
10	25	25		-	22.98	-		
10	50	0		-	23.02	-		
10	1	0		-	23.05	-		
10	1	25	64-QAM	-	23.07	-		
10	1	49		-	23.06	-		
10	25	0		-	22.07	-		
10	25	12		-	22.04	-		
10	25	25		-	22.01	-		
10	50	0		-	22.03	-		



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LTE Band 26 Maximum Average Power [dBm]									
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest			
5	1	0		24.82	24.85	24.77			
5	1	12		24.81	24.83	24.79			
5	1	24		24.88	24.81	24.74			
5	12	0	QPSK	23.87	23.92	23.84			
5	12	7		23.88	23.94	23.87			
5	12	13		24.00	23.92	23.83			
5	25	0		24.00	23.94	23.85			
5	1	0		24.14	24.16	24.09			
5	1	12		24.17	24.12	24.11			
5	1	24		24.18	24.15	24.07			
5	12	0	16-QAM	22.93	23.02	22.97			
5	12	7		22.96	23.03	22.95			
5	12	13		23.07	23.00	22.89			
5	25	0		23.07	23.01	22.93			
5	1	0		23.09	23.08	23.06			
5	1	12		23.09	23.11	23.03			
5	1	24		23.14	23.07	22.98			
5	12	0	64-QAM	21.98	22.04	21.98			
5	12	7		22.00	22.09	21.98			
5	12	13		22.11	22.07	21.95			
5	25	0		22.06	22.00	21.93			
3	1	0		24.83	24.85	24.77			
3	1	8		24.82	24.85	24.76			
3	1	14		24.81	24.83	24.74			
3	8	0	QPSK	23.83	23.90	23.82			
3	8	4		23.86	23.96	23.87			
3	8	7		23.82	23.93	23.82			
3	15	0		23.84	23.93	23.83			
3	1	0		24.15	24.11	24.16			
3	1	8		24.18	24.10	24.17			
3	1	14		24.15	24.15	24.04			
3	8	0	16-QAM	22.94	23.06	22.97			
3	8	4		22.98	23.07	22.97			
3	8	7		22.96	23.02	22.97			
3	15	0		22.95	23.00	22.91			
3	1	0		23.07	23.06	23.03			
3	1	8		23.11	23.10	23.04			
3	1	14		23.07	23.12	23.00			
3	8	0	64-QAM	21.96	22.05	21.94			
3	8	4		21.99	22.08	21.99			
3	8	7		21.98	22.05	21.96			
3	15	0		21.92	22.00	21.92			



1.4

6

0

#### FCC RADIO TEST REPORT

LTE Band 26 Maximum Average Power [dBm] BW [MHz] **RB Size RB Offset** Mod Lowest Middle Highest 1.4 0 24.75 24.76 24.68 1.4 3 24.84 24.77 1 24.83 1.4 1 5 24.74 24.75 24.67 1.4 3 0 **QPSK** 24.73 24.83 24.80 1.4 1 24.84 24.76 3 24.85 1.4 3 3 24.81 24.80 24.75 1.4 6 0 23.78 23.85 23.76 1.4 1 0 24.09 24.05 24.05 1.4 1 3 24.19 24.11 24.13 1.4 5 24.07 24.04 23.95 1.4 3 16-QAM 0 23.91 23.84 23.81 1.4 3 1 23.94 23.88 23.85 1.4 3 3 23.89 23.86 23.78 1.4 6 0 22.94 23.03 22.91 1.4 1 0 23.02 23.03 22.92 1.4 1 3 23.09 23.06 23.01 1.4 1 5 23.01 23.01 22.93 1.4 3 0 64-QAM 23.01 23.03 22.95 1.4 3 1 23.08 23.07 22.98 1.4 3 3 23.00 22.94 23.02

21.89

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21.94

21.85

#### <ASDIV Antenna>

LTE Band 26 Maximum Average Power [dBm]									
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest			
15	1	0		24.61	-	-			
15	1	37		24.62	-	-			
15	1	74		24.66	-	-			
15	36	0	QPSK	23.72	-	-			
15	36	20		23.74	-	-			
15	36	39		23.73	-	-			
15	75	0		23.70	-	-			
15	1	0		23.94	-	-			
15	1	37		23.97	-	-			
15	1	74		23.97	-	-			
15	36	0	16-QAM	22.79	-	-			
15	36	20		22.83	-	-			
15	36	39		22.82	-	-			
15	75	0		22.78	-	-			
15	1	0		22.85	-	-			
15	1	37		22.88	-	-			
15	1	74		22.88	-	-			
15	36	0	64-QAM	21.84	-	-			
15	36	20		21.83	-	-			
15	36	39		21.86	-	-			
15	75	0		21.77	-	-			
10	1	0		-	24.52	-			
10	1	25		-	24.57	-			
10	1	49		-	24.53	-			
10	25	0	QPSK	-	23.65	-			
10	25	12		-	23.66	-			
10	25	25		-	23.60	-			
10	50	0		-	23.66	-			
10	1	0		-	23.87	-			
10	1	25		-	23.91	-			
10	1	49		-	23.87	-			
10	25	0	16-QAM	-	22.75	-			
10	25	12		-	22.75	-			
10	25	25		-	22.74	-			
10	50	0		-	22.73	-			
10	1	0		-	22.77	-			
10	1	25		-	22.86	-			
10	1	49		-	22.79	-			
10	25	0	64-QAM	-	21.76	-			
10	25	12		-	21.78	-			
10	25	25		-	21.74	-			
10	50	0		-	21.74	-			

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	LTE Band 26 Maximum Average Power [dBm]									
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest				
5	1	0		24.59	24.60	24.47				
5	1	12		24.58	24.58	24.47				
5	1	24		24.64	24.56	24.42				
5	12	0	QPSK	23.63	23.70	23.55				
5	12	7		23.63	23.70	23.55				
5	12	13		23.75	23.61	23.52				
5	25	0		23.77	23.67	23.55				
5	1	0		23.92	23.96	23.82				
5	1	12		23.94	23.95	23.82				
5	1	24		23.98	23.90	23.75				
5	12	0	16-QAM	22.71	22.73	22.64				
5	12	7		22.74	22.81	22.65				
5	12	13		22.87	22.71	22.60				
5	25	0		22.85	22.72	22.62				
5	1	0		22.87	22.87	22.71				
5	1	12		22.85	22.87	22.75				
5	1	24		22.91	22.79	22.67				
5	12	0	64-QAM	21.76	21.78	21.68				
5	12	7		21.77	21.81	21.68				
5	12	13		21.91	21.76	21.65				
5	25	0		21.86	21.73	21.63				
3	1	0		24.60	24.59	24.44				
3	1	8		24.60	24.57	24.43				
3	1	14		24.59	24.54	24.42				
3	8	0	QPSK	23.60	23.66	23.50				
3	8	4		23.62	23.70	23.54				
3	8	7		23.58	23.63	23.52				
3	15	0		23.59	23.66	23.49				
3	1	0		23.94	23.94	23.78				
3	1	8		23.95	23.93	23.81				
3	1	14		23.93	23.89	23.69				
3	8	0	16-QAM	22.74	22.81	22.63				
3	8	4		22.77	22.79	22.65				
3	8	7		22.71	22.76	22.62				
3	15	0		22.70	22.77	22.61				
3	1	0		22.87	22.82	22.68				
3	1	8		22.82	22.83	22.71				
3	1	14		22.86	22.81	22.66				
3	8	0	64-QAM	21.75	21.80	21.63				
3	8	4		21.79	21.79	21.66				
3	8	7		21.72	21.76	21.64				
3	15	0		21.71	21.74	21.61				

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SPORTON LAB.	CC RAD	Report N	o. : FG9D0616-05D									
LTE Band 26 Maximum Average Power [dBm]												
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest						
1.4	1	0		24.56	24.54	24.36						
1.4	1	3		24.61	24.59	24.46						
1.4	1	5		24.54	24.51	24.34						
1.4	3	0	QPSK	24.59	24.54	24.40						
1.4	3	1		24.61	24.60	24.44						
1.4	3	3		24.56	24.54	24.42						
1.4	6	0		23.56	23.58	23.42						
1.4	1	0		23.88	23.87	23.73						
1.4	1	3		23.97	23.96	23.78						
1.4	1	5		23.87	23.88	23.72						
1.4	3	0	16-QAM	23.67	23.63	23.52						
1.4	3	1		23.71	23.68	23.52						
1.4	3	3		23.63	23.64	23.48						
1.4	6	0		22.72	22.74	22.58						
1.4	1	0		22.77	22.79	22.64						
1.4	1	3		22.86	22.85	22.71						
1.4	1	5		22.79	22.76	22.61						
1.4	3	0	64-QAM	22.84	22.79	22.63						
1.4	3	1		22.83	22.80	22.64						
1.4	3	3		22.80	22.77	22.61						
1.4	6	0		21.65	21.66	21.52						

## LTE Band 26

## Peak-to-Average Ratio

Mode						
Mod.	QP	SK	16	Limit: 13dB		
RB Size	1RB	Full RB	1RB	Full RB	Result	
Lowest CH	-	-	-	-		
Middle CH	3.59	4.72	5.22	6.00	PASS	
Highest CH	-	-	-	-		
Mode						
Mod.	640	QAM		Limit: 13dB		
RB Size	1RB	Full RB			Result	
Lowest CH	-	-	-	-		
Middle CH	6.17	6.41	-	-	PASS	
Highest CH	-	-	-	-		

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Ref Level 30.00
Att 

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Date: 28.JAN.2020 00:34:26

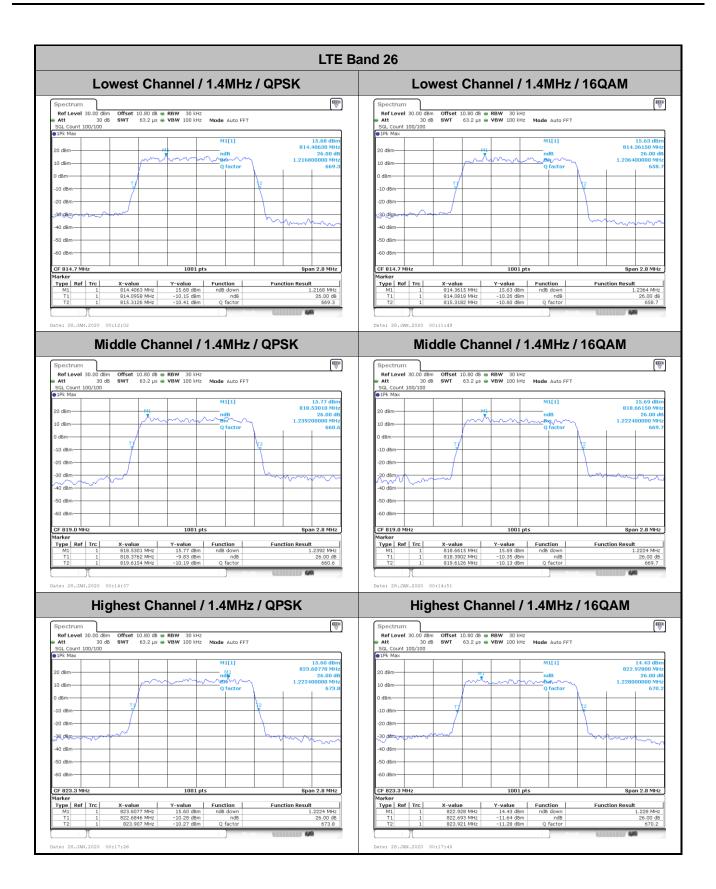
## 26dB Bandwidth

Mode	LTE Band 26 : 26dB BW(MHz)												
BW	1.4	ИHz	3MHz		5MHz		10MHz		15MHz		20MHz		
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	
Lowest CH	1.22	1.24	3.03	3.05	4.88	4.90	-	-	14.27	14.51	-	-	
Middle CH	1.24	1.22	3.00	3.03	4.94	4.90	9.67	9.59	-	-	-	-	
Highest CH	1.22	1.23	2.98	3.05	4.93	4.92	-	-	-	-	-	-	
Mode	LTE Band 26 : 26dB BW(MHz)												
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz		
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM		
Lowest CH	1.20	-	3.02	-	4.76	-	-	-	14.36	-	-	-	
Middle CH	1.23	-	3.05	-	4.90	-	9.81	-	-	-	-	-	
Highest CH	1.23	-	3.05	-	4.97	-	-	-	-	-	-	-	

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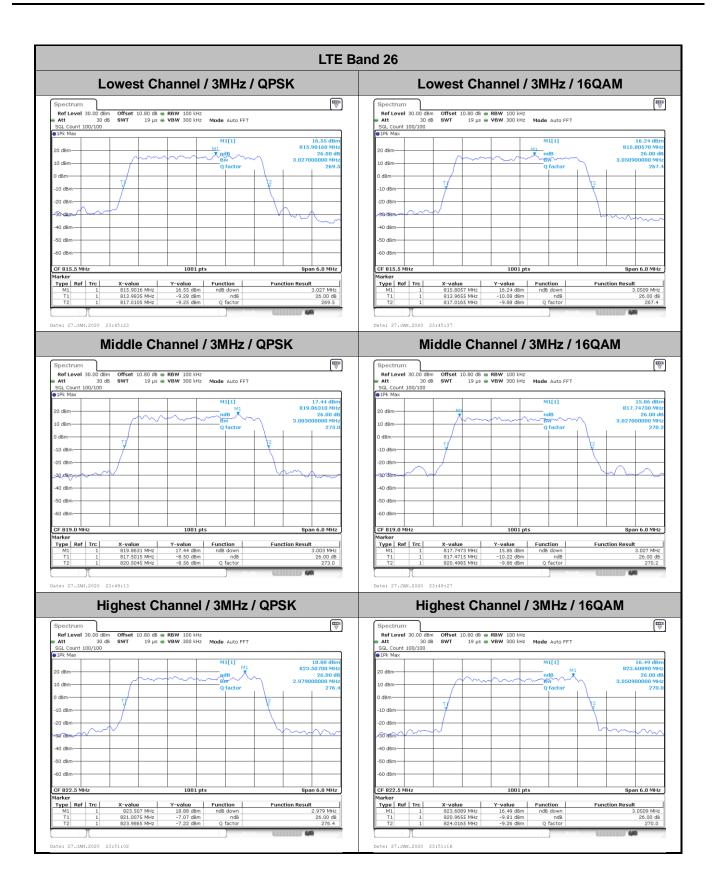
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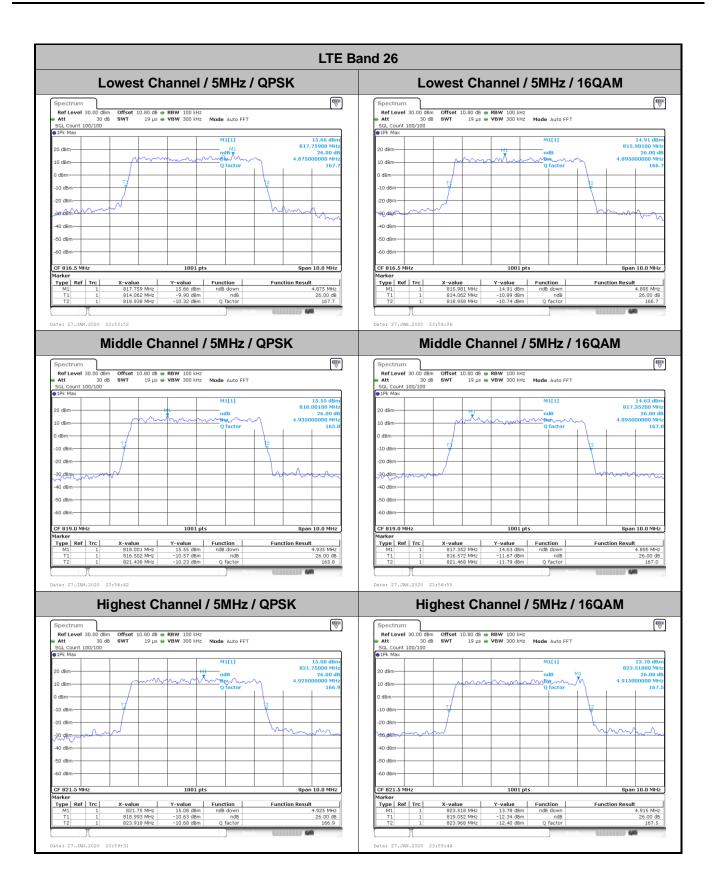
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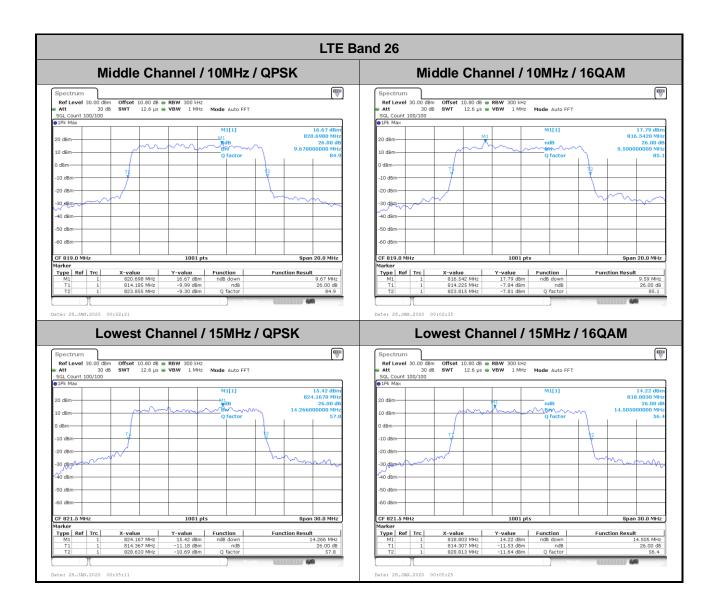
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Report No.: FG9D0616-05D LTE Band 26 Lowest Channel / 1.4MHz / 64QAM Lowest Channel / 3MHz / 64QAM Ref Level 30.00 dBm

Att 30 dB

SGL Count 100/100

1Pk Max -10 dBm 30 dB Span 2.8 MHz CF 815.5 MH Middle Channel / 1.4MHz / 64QAM Middle Channel / 3MHz / 64QAM Type Ref Trc Type Ref Trc Highest Channel / 1.4MHz / 64QAM Highest Channel / 3MHz / 64QAM Offset 10.80 dB ● RBW 100 kHz SWT 19 µs ● VBW 300 kHz Mode Auto FFT Att 30 dB
 SGL Count 100/100
 1Pk Max Mode Auto FFT 16.13 dB 822.27220 MF 14.16 dB 823.54620 M

Function Result

Type Ref Trc

Function ndB down

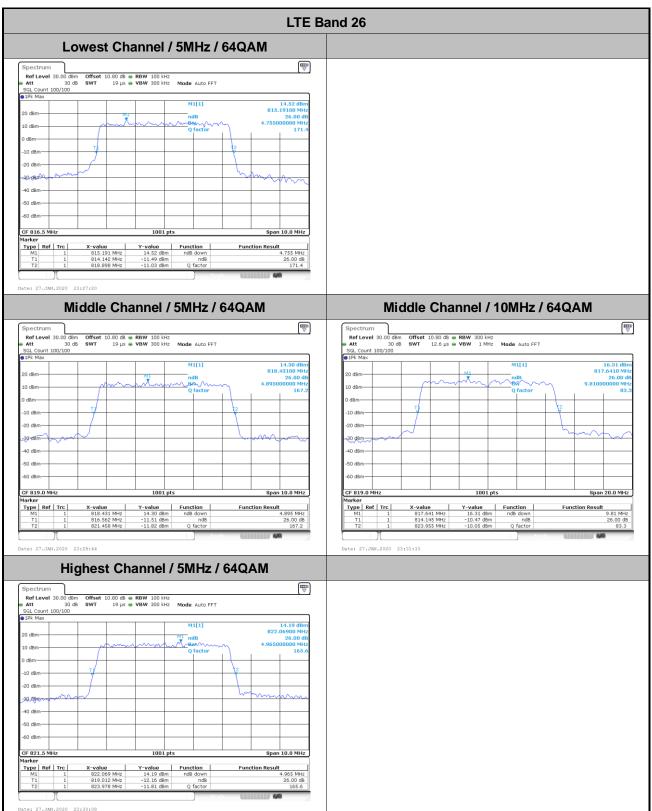
FAX: 886-3-328-4978

Type | Ref | Trc |

 X-value
 Y-value
 Function

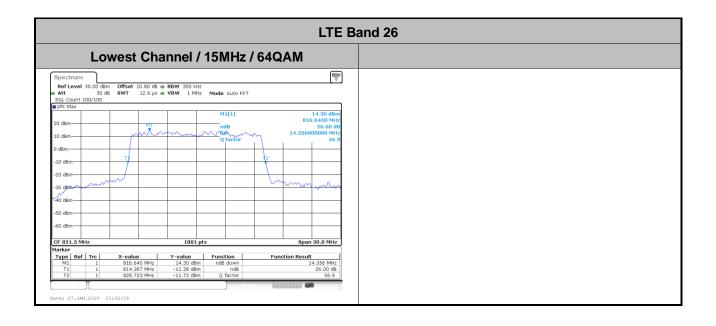
 823.5462 MHz
 14.16 dBm
 ndB down

**Report No. : FG9D0616-05D** 



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## Occupied Bandwidth

Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.71	2.73	4.49	4.48	-	-	13.40	13.40	-	-
Middle CH	1.08	1.10	2.74	2.71	4.50	4.50	9.01	9.01	-	-	-	-
Highest CH	1.10	1.09	2.72	2.72	4.49	4.49	-	-	-	-	-	-
Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09	-	2.72	-	4.50	-	-	-	13.43	-	-	-
Middle CH	1.08	-	2.72	-	4.47	-	9.01	-	-	-	-	-
Highest CH	1.09	-	2.73	-	4.49	-	-	-	-	-	-	-

Report No.: FG9D0616-05D

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**Report No.: FG9D0616-05D** LTE Band 26 Lowest Channel / 1.4MHz / QPSK Lowest Channel / 1.4MHz / 16QAM Ref Level 30.00 dBm Att 30 dB SGL Count 100/100 10 dBm -10 dBm -20 dBm--30 dBm 40 dBm-CF 814.7 MHz 
 X-value
 Y-value
 Function

 814.521 MHz
 15.34 dBm
 9.94 dBm

 914.15175 MHz
 8.90 dBm
 Occ Bw

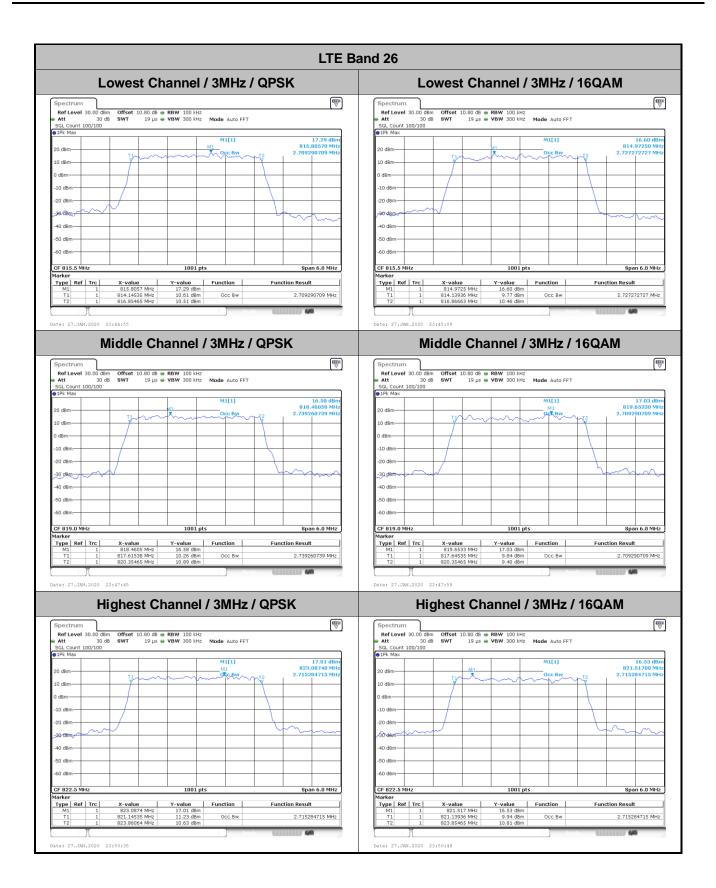
 915.24266 MHz
 9.94 dBm
 Type Ref Trc **Function Result** Type Ref Trc 1.090909091 MHz 1.085314685 MHz Middle Channel / 1.4MHz / QPSK Middle Channel / 1.4MHz / 16QAM Ref Level 30.00 dBm
Att 30 dB
SGL Count 100/100 Offset 10.80 dB ● RBW 30 kHz SWT 63.2 µs ● VBW 100 kHz Mode Auto FFT dBm--10 dBm -30 dBm -50 dBm-Type Ref Trc X-value Y-value Function 819.1622 MHz 15.73 dBm Function Result Type Ref Trc Function 819.1622 MHz 15.73 dBm 818.46014 MHz 10.12 dBm Occ Bw 819.54266 MHz 10.44 dBm 818.45455 MHz 819.55105 MHz 8.33 dBm Occ Bw 7.43 dBm 1.096503497 MHz 1.082517483 MHz Highest Channel / 1.4MHz / QPSK Highest Channel / 1.4MHz / 16QAM → Act Level 30.00 dBm → Act 30 dB → SGL Count 100/100 ● 1Pk Max 15.51 dBi 822.82730 MF 1.096503497 MF M1[1] 10 dBm-10 dBm--10 dBm -30 dBm-30 dBm -40 dBm 40 dBm--60 dBm--60 dBm-

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Type Ref Trc

1.090909091 MHz

C RADIO TEST REPORT Report No. : FG9D0616-05D



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 Type
 Ref
 Trc
 X-value
 Y-value
 Function

 M1
 1
 822.859 MHz
 14.57 dBm

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8.62 dBm Occ Bw 8.98 dBm

Report No.: FG9D0616-05D LTE Band 26 Lowest Channel / 5MHz / QPSK Lowest Channel / 5MHz / 16QAM Ref Level 30.00 dBm
Att 30 dB
SGL Count 100/100 -10 dBm -10 dBn -20 dBm--40 dBm 40 dBm -60 dBm 1001 pts CF 816.5 MHz Span 10.0 MHz X-value 815.241 MHz 814.26224 MHz 818.73776 MHz X-value 818.218 MHz 814.26224 MHz 818.74775 MHz Y-value 14.48 dBm 10.10 dBm 10.56 dBm Type Ref Trc Type Ref Trc Middle Channel / 5MHz / QPSK Middle Channel / 5MHz / 16QAM dBm--40 dBm--50 d8m-CF 819.0 MHz 
 X-value
 Y-value
 Function

 816.982 MHz
 13.91 dBm

 816.75225 MHz
 9.69 dBm
 Occ Bw

 821.24775 MHz
 8.47 dBm
 Type Ref Trc 
 X-value
 Y-value
 Function

 819.29 MHz
 15.63 dBm
 B16.75225 MHz

 10.14 dBm
 Occ Bw

 821.24775 MHz
 10.44 dBm
 Type Ref Trc **Function Result Function Result** 4.495504496 MHz 4.495504496 MHz Highest Channel / 5MHz / QPSK Highest Channel / 5MHz / 16QAM Ref Level 30.00 dBm Offset 10.80 dB ● RBW 100 kHz ■ Att 30 db SWT 19 µs ● VBW 300 kHz Mode Auto FFT SGL Count 100/100 
■ 1Pk Max Ref Level 30. 14.57 dB 822.85900 MH 4.485514486 MH dBm--10 dBm

4.485514486 MHz

 Type
 Ref
 Trc
 X-value
 Y-value
 Function

 M1
 1
 822.179 MHz
 15.11 dBm

Occ Bw

4.485514486 MHz

Marker
Type Ref Trc

LTE Band 26 Middle Channel / 10MHz / QPSK Middle Channel / 10MHz / 16QAM Ref Level 30.00 dBm
Att 30 dB
SGL Count 100/100
Pk Max 10 dBm -10 dBm -10 dBm -20 dBm--30 dBm--30 dBm -40 dBm--40 dBm-1001 pts CF 819.0 MHz Span 20.0 MHz CF 819.0 MHz Span 20.0 MHz X-value 819.959 MHz 814.5445 MHz 823.5554 MHz Type Ref Trc Function Result Type Ref Trc Date: 28.JAN.2020 00:02:07 LTE Band 26 Lowest Channel / 15MHz / QPSK Lowest Channel / 15MHz / 16QAM 20 dBm 10 dBm--10 dBm--30 deni

-50 dBm-

13.396603397 MHz

 Marker

 Type
 Ref
 Trc
 X-value
 Y-value
 Function

 M1
 1
 824.197 MHz
 14.23 dBm

14-23 dBm | 8.37 dBm | Occ Bw | 8.65 dBm |

13.396603397 MHz

**Report No. : FG9D0616-05D** 

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**Report No.: FG9D0616-05D** LTE Band 26 Lowest Channel / 1.4MHz / 64QAM Lowest Channel / 3MHz / 64QAM Ref Level 30.00 dBm Offset Att 30 dB SWT SGL Count 100/100 -20 dBm -20 dBm--30 dBr -40 dBm 40 dBm-CF 815.5 MHz 
 X-value
 Y-value
 Function

 814.8035 MHz
 14.61 dBm
 814.933 dBm

 814.15734 MHz
 9.53 dBm
 Occ Bw

 815.24545 MHz
 7.10 dBm

 X-value
 Y-value
 Function

 816.531 MHz
 16.38 dBm
 814.19395 MHz
 8.85 dBm
 Occ BW

 816.86064 MHz
 10.60 dBm
 Occ BW
 Type Ref Trc Function Result Type Ref Trc 2.721278721 MHz Middle Channel / 1.4MHz / 64QAM Middle Channel / 3MHz / 64QAM Ref Level 30.00 dBm
Att 30 dB
SGL Count 100/100 Offset 10.80 dB ● RBW 100 kHz SWT 19 µs ● VBW 300 kHz Mode Auto FFT 17.00 dBn 817.99300 MH 2.721278721 MH M1[1] -10 dBm -30 d<del>B</del>m -50 dBm- 
 X-value
 Y-value
 Function

 819.1035 MHz
 14.42 dBm
 Type Ref Trc Type Ref Trc Function Result Function 819.1035 MHz 14.42 dBm 818.45734 MHz 8.11 dBm Occ Bw 819.53986 MHz 8.30 dBm 10.46 dBm Occ Bw 10.91 dBm 2.721278721 MHz 1.082517483 MHz Highest Channel / 1.4MHz / 64QAM Highest Channel / 3MHz / 64QAM Ref Level 30.00 dBm

Att 30 dB

SGL Count 100/100

1Pk Max 16.66 dBn 821.39110 MH 2.733266733 MH M1[1] 10 dBm-10 dBm--10 dBm 40 dBm

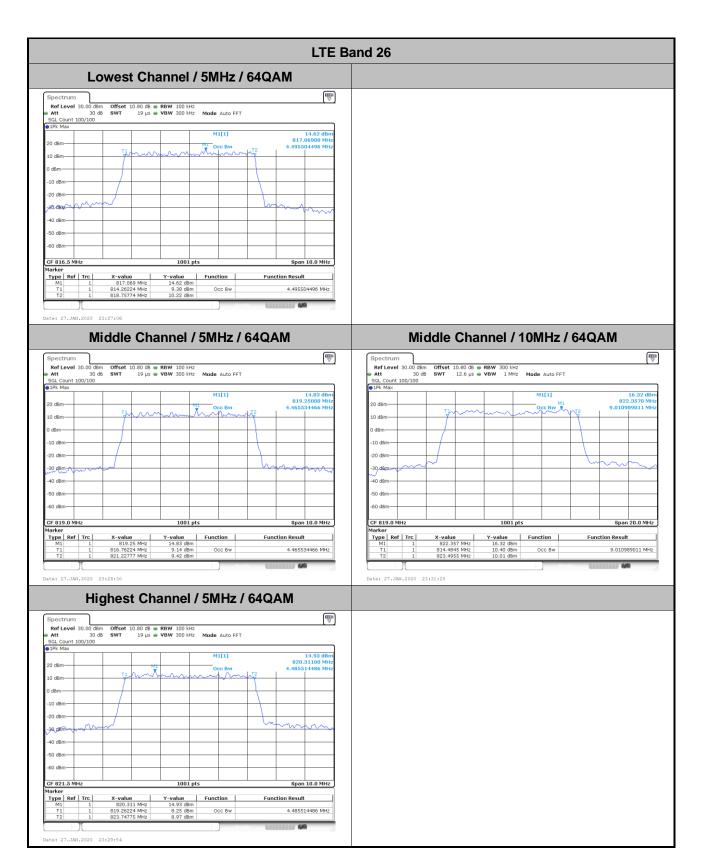
TEL: 886-3-327-3456 Page Number : A2-16 of 44

-60 dBm-

Type Ref Trc

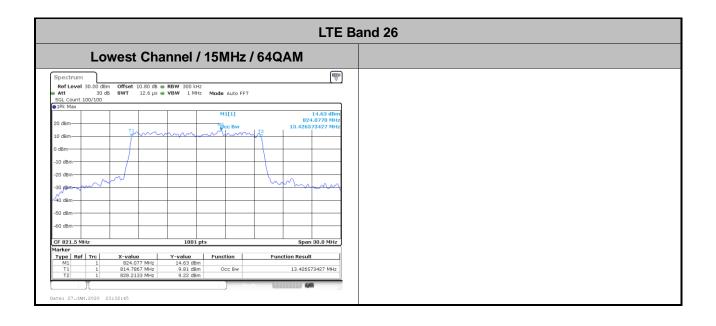
2.733266733 MHz

TEST REPORT Report No. : FG9D0616-05D



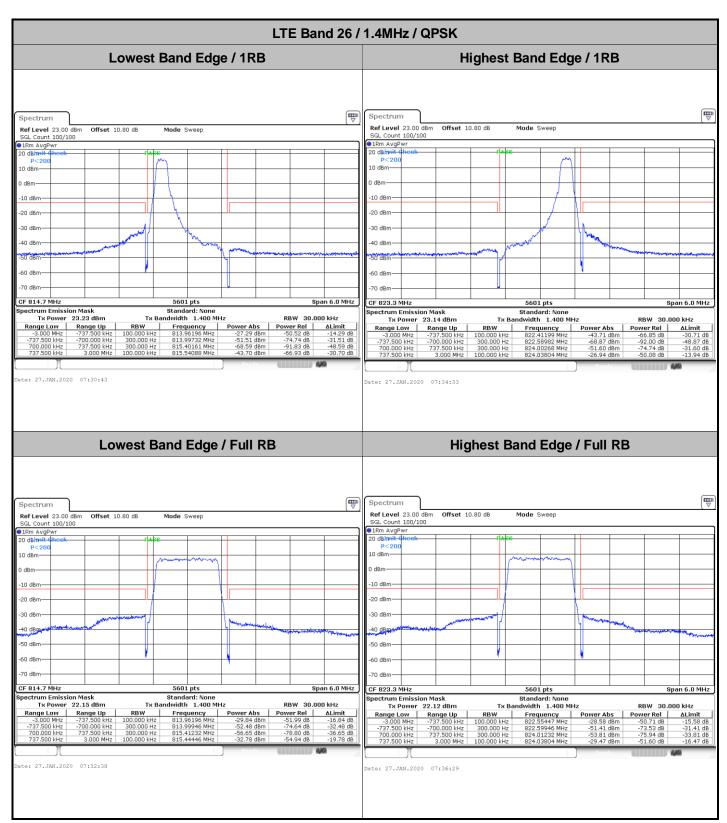
TEL: 886-3-327-3456 Page Number : A2-17 of 44

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## **Conducted Band Edge**



Report No.: FG9D0616-05D

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**Report No.: FG9D0616-05D** LTE Band 26 / 1.4MHz / 16QAM Highest Band Edge / 1 RB Lowest Band Edge / 1 RB Spectrum Offset 10.80 dB Mode Sweep Offset 10.80 dB Ref Level 23.00 dBm Mode Sweep Count 100/100 SGL Count 100/100 1Rm AvgPwr -10 dBm -20 dBn -20 dBm 30 dBr -30 dBm 40 dBn 40 dBm SD dAm Span 6.0 MHz CF 814.7 MHz 5601 pts CF 823.3 MHz pectrum Emission Mask
Tx Power 22.61 dBm
Range Low Range Up
-3.000 MHz -737.500 kHz Standard: None Tx Bandwidth 1.400 MHz Standard: None ndwidth 1.400 MHz Frequency Power Abs 813.96196 MHz -27.00 dBi 813.99518 MHz -52.86 dBi 815.43589 MHz -69.06 dBi 815.67586 MHz -44.30 dBi RBW 100.000 kHz 300.000 Hz 300.000 Hz 100.000 kHz 
 Frequency
 Power Abs

 822.41306 MHz
 -43.95 dBm

 822.59732 MHz
 -69.08 dBm

 824.00268 MHz
 -52.41 dBm

 824.04125 MHz
 -27.22 dBm

 Power Rel
 ALimit

 -66.64 dB
 -30.95 dB

 -91.77 dB
 -49.08 dB

 -75.10 dB
 -32.41 dB

 -49.91 dB
 -14.22 dB
 ate: 27.JAN.2020 07:31:40 Date: 27.JAN.2020 07:35:31 Lowest Band Edge / Full RB **Highest Band Edge / Full RB** Spectrum Spectrum Ref Level 23.00 dBm Offset 10.80 dB Mode Sweep Ref Level 23.00 dBm SGL Count 100/100 Offset 10.80 dB Mode Sweep SGL Count 100/100 ●1Rm AvgPwr 40 dBm 5601 pts 5601 pts pectrum Emission Mask Tx Power 21.40 dBm Standard: None Tx Bandwidth 1.400 MHz ectrum Emission Mask Standard: None Tx Bandwidth 1.400 MHz Tx Power 21.36 dBm Frequency 913 95661 MHz | Power Rel | ALimit | -50.89 dB | -16.49 dB | -74.58 dB | -33.18 dB | -79.30 dB | -37.90 dB | -54.95 dB | -20.55 dB | Range Low Range Up 
 Frequency
 Power Abs

 822.53411 MHz
 -29.28 dBn

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ate: 27.JAN.2020 07:37:27

FAX: 886-3-328-4978

te: 27.JAN.2020 07:33:35

**Report No.: FG9D0616-05D** LTE Band 26 / 1.4MHz / 64QAM Lowest Band Edge / 1 RB Highest Band Edge / 1 RB Spectrum Offset 10.80 dB Mode Sweep Offset 10.80 dB Ref Level 23.00 dBm Mode Sweep Count 100/100 SGL Count 100/100 1Rm AvgPwr -10 dBm -20 dBn -20 dBm 30 dBr -30 dBm 40 dBm 40 dBm 50 dBm CF 814.7 MHz Span 6.0 MHz 5601 pts CF 823.3 MHz pectrum Emission Mask
Tx Power 21.53 dBm
Range Low Range Up
-3.000 MHz -737.500 kHz Standard: None Tx Bandwidth 1.400 MHz Standard: None ndwidth 1.400 MHz ### 1.400 MHz
Frequency Power Abs

813.96196 MHz -27.27 dBm

813.98661 MHz -52.43 dBm

815.41125 MHz -69.17 dBm

815.67371 MHz -44.55 dBm RBW 100.000 kHz 300.000 Hz 300.000 Hz 100.000 kHz 
 Frequency
 Power Abs

 822.50626 MHz
 -44.66 dBm

 822.56411 MHz
 -69.97 dBm

 824.00696 MHz
 -51.69 dBm

 824.03804 MHz
 -23.55 dBm
 -65.90 dB -90.61 dB -72.94 dB -44.80 dB ΔLimit
-31.66 dB
-49.37 dB
-31.69 dB
-10.55 dB ate: 27.JAN.2020 08:05:29 Date: 27.JAN.2020 08:07:24 Lowest Band Edge / Full RB **Highest Band Edge / Full RB** Spectrum Spectrum Ref Level 23.00 dBm Offset 10.80 dB Mode Sweep Ref Level 23.00 dBm SGL Count 100/100 Offset 10.80 dB Mode Sweep SGL Count 100/100 ●1Rm AvgPwr 40 dBm-CF 814.7 MHz 5601 pts 5601 pts pectrum Emission Mask Tx Power 20.26 dBm Standard: None Tx Bandwidth 1.400 MHz ectrum Emission Mask Standard: None Tx Bandwidth 1.400 MHz Tx Power 20.31 dBm Frequency 212 95661 MHz Range Low | Range Up -3.000 MHz | -737.500 kHz Range Low Range Up Power Rel ALimit 

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ate: 27.JAN.2020 08:08:22

FAX: 886-3-328-4978

te: 27.JAN.2020 08:06:27

**Report No.: FG9D0616-05D** LTE Band 26 / 3MHz / QPSK Highest Band Edge / 1 RB Lowest Band Edge / 1RB Spectrum Offset 10.80 dB Mode Sweep Offset 10.80 dB Mode Sweep Ref Level 23.00 dBm GL Count 100/100 SGL Count 100/100 1Rm AvgPwr -10 dBm -20 dBn -20 dBm 30 dBr 30 dBm 40 dBn 40 dBm CF 815.5 MHz Span 10.0 MHz 5601 pts rectrum Emission Mask
Tx Power 22.99 dBm
Range Low Range Up
-5.000 MHz -1.538 MH Standard: None Tx Bandwidth 3.000 MHz pectrum Emission Mask Tx Power 22.83 dBm Range Low Range Up -5.000 MHz -1.538 MHz -1.538 MHz -1.500 MHz 1.538 MHz 1.538 MHz 1.538 MHz 5.000 MHz Standard: None ndwidth 3.000 MHz RBW 30.000 kHz RBW 100.000 kHz 300.000 Hz 300.000 Hz 100.000 kHz 
 Frequency
 Power Abs

 820.95446 MHz
 -42.73 dBm

 820.99196 MHz
 -64.78 dBm

 824.00268 MHz
 -39.94 dBm

 824.04732 MHz
 -16.50 dBm

 Power Rel
 ALimit

 -65.56 dB
 -29.73 dB

 -87.61 dB
 -44.78 dB

 -62.76 dB
 -19.94 dB

 -39.33 dB
 -3.50 dB
 ate: 27.JAN.2020 07:38:28 Date: 27.JAN.2020 07:42:23 Lowest Band Edge / Full RB **Highest Band Edge / Full RB** Spectrum Spectrum Ref Level 23.00 dBm Offset 10.80 dB Mode Sweep Ref Level 23.00 dBm SGL Count 100/100 Offset 10.80 dB Mode Sweep SGL Count 100/100 ●1Rm AvgPwr CF 815.5 MHz 5601 pts 5601 pts ectrum Emission Mask Tx Power 22.21 dBm Standard: None Tx Bandwidth 3.000 MHz ectrum Emission Mask Standard: None Tx Bandwidth 3.000 MHz Tx Power 22.22 dBm RBW 30,000 kHz Frequency Range Low Range Up | Range Low | Range Up | -5.000 MHz | -1.538 MHz 

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ate: 27.JAN.2020 07:44:24

FAX: 886-3-328-4978

te: 27.JAN.2020 07:40:26

**Report No.: FG9D0616-05D** LTE Band 26 / 3MHz / 16QAM Lowest Band Edge / 1 RB Highest Band Edge /1 RB Spectrum Offset 10.80 dB Mode Sweep Offset 10.80 dB Mode Sweep Ref Level 23.00 dBm Count 100/100 SGL Count 100/100 1Rm AvgPwr -10 dBm -20 dBn -20 dBm 30 dBr 30 dBm 40 dBn 40 dBm CF 815.5 MHz Span 10.0 MHz 5601 pts r 813.3 mrs ectrum Emission Mask Tx Power 22.09 dBm Range Low Range Up -5.000 MHz -1.538 MH Standard: None Tx Bandwidth 3.000 MHz Standard: None ndwidth 3.000 MHz 
 Frequency
 Power Abs

 813.95625 MHz
 -18.58 dBn

 813.99911 MHz
 -40.18 dBn

 817.00804 MHz
 -69.01 dBn

 817.97054 MHz
 -44.52 dBn
 RBW 100.000 kHz 300.000 Hz 300.000 Hz 100.000 kHz 
 Frequency
 Power Abs

 820.95089 MHz
 -43.43 dBm

 820.99196 MHz
 -67.99 dBm

 824.00268 MHz
 -41.14 dBm

 824.05089 MHz
 -18.59 dBm

 Power Rel
 ALimit

 -65.59 dB
 -30.43 dB

 -90.14 dB
 -47.99 dB

 -63.30 dB
 -21.14 dB

 -40.74 dB
 -5.59 dB
 ate: 27.JAN.2020 07:39:27 Date: 27.JAN.2020 07:43:25 Lowest Band Edge / Full RB **Highest Band Edge / Full RB** Spectrum Spectrum Ref Level 23.00 dBm Offset 10.80 dB Mode Sweep **Ref Level** 23.00 dBm **Offset** 10.80 dB SGL Count 100/100 Mode Sweep SGL Count 100/100 ●1Rm AvgPwr CF 815.5 MHz 5601 pts 5601 pts Standard: None Tx Bandwidth 3.000 MHz ectrum Emission Mask Standard: None Tx Bandwidth 3.000 MHz Tx Power 21.28 dBm RBW 30,000 kHz Frequency 010 95089 MHz Power Rel ALimit | Range Low | Range Up | -5.000 MHz | -1.538 MHz 

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ate: 27.JAN.2020 07:45:22

FAX: 886-3-328-4978

te: 27.JAN.2020 07:41:25

**Report No.: FG9D0616-05D** LTE Band 26 / 3MHz / 64QAM Lowest Band Edge / 1 RB Highest Band Edge /1 RB Spectrum Offset 10.80 dB Mode Sweep Offset 10.80 dB Mode Sweep Ref Level 23.00 dBm GL Count 100/100 SGL Count 100/100 1Rm AvgPwr -10 dBm -20 dBn -20 dBm 30 dBr -30 dBm 40 dBn 40 dBm CF 815.5 MHz Span 10.0 MHz 5601 pts rectrum Emission Mask
Tx Power 21.25 dBm
Range Low Range Up
-5.000 MHz -1.538 MH pectrum Emission Mask Tx Power 20.84 dBm Range Low Range Up -5.000 MHz -1.538 MHz -1.538 MHz -1.500 MHz 1.538 MHz 5.000 MHz Standard: None Tx Bandwidth 3.000 MHz Standard: None ndwidth 3.000 MHz RBW 30.000 kHz | Power Rel | ALimit | -39,35 dB | -5,10 | -63,70 dB | -22,45 | -91,30 dB | -50,05 | -65,96 dB | -31,71 RBW 100.000 kHz 300.000 Hz 300.000 Hz 100.000 kHz 
 Frequency
 Power Abs

 819.99018 MHz
 -45.15 dBm

 820.96696 MHz
 -69.74 dBm

 824.00446 MHz
 -41.82 dBm

 824.04732 MHz
 -19.45 dBm

 Power Rel
 ALimit

 -65.98 dB
 -32.15 dB

 -90.58 dB
 -49.74 dB

 -62.66 dB
 -21.82 dB

 -40.29 dB
 -6.45 dB
 ate: 27.JAN.2020 08:09:21 Date: 27.JAN.2020 08:11:19 Lowest Band Edge / Full RB **Highest Band Edge / Full RB** Spectrum Spectrum Ref Level 23.00 dBm Offset 10.80 dB Mode Sweep **Ref Level** 23.00 dBm **Offset** 10.80 dB SGL Count 100/100 Mode Sweep SGL Count 100/100 ●1Rm AvgPwr CF 815.5 MHz 5601 pts 5601 pts ectrum Emission Mask Tx Power 20.33 dBm Standard: None Tx Bandwidth 3.000 MHz ectrum Emission Mask Standard: None Tx Bandwidth 3.000 MHz Tx Power 20.24 dBm RBW 30,000 kHz Frequency 013 95804 MHz Range Low Range Up Power Rel ALimit | Range Low | Range Up | -5.000 MHz | -1.538 MHz 

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ate: 27.JAN.2020 08:12:17

FAX: 886-3-328-4978

te: 27.JAN.2020 08:10:20

**Report No.: FG9D0616-05D** LTE Band 26 / 5MHz / QPSK Lowest Band Edge / 1 RB Highest Band Edge / 1 RB Spectrum Offset 10.80 dB Mode Sweep Offset 10.80 dB Mode Sweep Ref Level 23.00 dBm GL Count 100/100 SGL Count 100/100 1Rm AvgPwr -10 dBm -20 dBn -20 dBm 30 dBr 30 dBm 40 dBm 40 dBm Sti dan 60 dBr Span 15.0 MHz CF 816.5 MHz 5601 pts CF 821.5 MHz P 816.3 MFz

DECTRUM EMISSION Mask

TX Power 22.83 dBm

Range Low Range Up

-7.500 MHz -2.538 MH. | Free | Standard: None Tx Bandwidth 5.000 MHz Standard: None ndwidth 5.000 MHz RBW 50.000 kHz 
 Frequency
 Power Abs

 813.96116 MHz
 -24.09 dBn

 813.99866 MHz
 -44.66 dBn

 819.01473 MHz
 -69.73 dBn

 820.81537 MHz
 -45.43 dBn
 RBW 100.000 kHz 300.000 Hz 300.000 Hz 100.000 kHz Frequency 817.12300 MHz 818.99063 MHz 824.00134 MHz 824.03884 MHz Power Abs 2 -44.57 dBm 2 -70.30 dBm 2 -46.98 dBm 2 -21.18 dBm 
 Power Rel
 ALimit

 -67.20 dB
 -31.57 dB

 -92.93 dB
 -50.30 dB

 -69.61 dB
 -26.98 dB

 -43.81 dB
 -8.18 dB
 ate: 27.JAN.2020 07:46:20 Date: 27.JAN.2020 07:50:10 Lowest Band Edge / Full RB **Highest Band Edge / Full RB** Spectrum Spectrum Ref Level 23.00 dBm Offset 10.80 dB Mode Sweep Ref Level 23.00 dBm SGL Count 100/100 Offset 10.80 dB Mode Sweep SGL Count 100/100 ●1Rm AvgPwr CF 816.5 MHz 5601 pts 15.0 MHz 5601 pts ectrum Emission Mask Tx Power 22.27 dBm Standard: None Tx Bandwidth 5.000 MHz ectrum Emission Mask Standard: None Tx Bandwidth 5.000 MHz Tx Power 22.20 dBm RBW 50,000 kHz Frequency Range Low Range Up | Range Low | Range Up | -7.500 MHz | -2.538 MHz | 

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ate: 27.JAN.2020 07:52:05

FAX: 886-3-328-4978

te: 27.JAN.2020 07:48:15

**Report No.: FG9D0616-05D** LTE Band 26 / 5MHz / 16QAM Highest Band Edge / 1 RB Lowest Band Edge / 1RB Spectrum Offset 10.80 dB Mode Sweep Offset 10.80 dB Ref Level 23.00 dBm Mode Sweep GL Count 100/100 SGL Count 100/100 1Rm AvgPwr -10 dBm -20 dBn -20 dBm 30 dBr 30 dBm 40 dBm 40 dBm 60 dBr Span 15.0 MHz CF 816.5 MHz 5601 pts CF 821.5 MHz P 816.3 MFz

DECTRUM EMISSION Mask

TX Power 22.05 dBm

Range Low Range Up

-7.500 MHz -2.538 MH. Standard: None Tx Bandwidth 5.000 MHz Standard: None ndwidth 5.000 MHz RBW 50.000 kHz RBW 50.000 kHz | Frequency | Power Abs | 13.96116 MHz | -24.24 dBm | 813.96156 MHz | -46.56 dBm | 819.01473 MHz | -70.14 dBm | 820.85021 MHz | -44.86 dBm | -44.86 RBW 100.000 kHz 300.000 Hz 300.000 Hz 100.000 kHz Frequency 817.18999 MHz 818.97188 MHz 824.00134 MHz 824.04152 MHz Power Abs 2 -45.11 dBm 2 -70.56 dBm 2 -46.50 dBm 2 -22.89 dBm 
 Power Rel
 ALimit

 -67.00 dB
 -32.11 dB

 -92.45 dB
 -50.56 dB

 -68.38 dB
 -26.50 dB

 -44.78 dB
 -9.89 dB
 ate: 27.JAN.2020 07:47:18 Date: 27.JAN.2020 07:51:07 Lowest Band Edge / Full RB **Highest Band Edge / Full RB** Spectrum Spectrum Ref Level 23.00 dBm Offset 10.80 dB Mode Sweep **Ref Level** 23.00 dBm **Offset** 10.80 dB SGL Count 100/100 Mode Sweep SGL Count 100/100 ●1Rm AvgPwr 40 dBm-5601 pts 15.0 MHz 5601 pts oectrum Emission Mask Tx Power 21.34 dBm Standard: None Tx Bandwidth 5.000 MHz ectrum Emission Mask Standard: None Tx Bandwidth 5.000 MHz Tx Power 21.28 dBm RBW 50,000 kHz Range Low Range Up Frequency 813.96116 MHz | Range Low | Range Up | -7.500 MHz | -2.538 MHz | 
 Frequency
 Power Abs

 818.94776 MHz
 -31.25 dBn

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ate: 27.JAN.2020 07:53:02

FAX: 886-3-328-4978

te: 27.JAN.2020 07:49:12