

Report No.: FG011718-01D



FCC RADIO TEST REPORT

FCC ID : A4RGD1YQ

Equipment : Phone Model Name : GD1YQ

Applicant : Google LLC

1600 Amphitheatre Parkway,

Mountain View, California, 94043 USA

Standard : FCC 47 CFR Part 2, Part 27(D)

The product was received on Apr. 30, 2020 and testing was started from Apr. 30, 2020 and completed on Jun. 20, 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 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.

Lunis 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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History of this test report

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Report No.	Version	Description	Issued Date
FG011718-01D	01	Initial issue of report	Jul. 14, 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	Conducted Output Power and Effective Isotropic Radiated Power	Reporting only	-	
3.3	-	Peak-to-Average Ratio	Reporting only	-	
3.4	§27.50 (a)(3)	EIRP Power Density	Power Density Pass		
3.5	§2.1049	§2.1049 Occupied Bandwidth Reporting only		-	
3.6	§2.1051 §27.53 (a)(4)	Conducted Band Edge Measurement	Pass	-	
3.7	§2.1051 §27.53 (a)(4)	Conducted Spurious Emission	Pass	-	
3.8	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Pass	-	
4.2	§2.1053 §27.53 (a)(4)	Radiated Spurious Emission	Pass	Under limit 7.41 dB at 6942.000 MHz for Primary Antenna Under limit 8.44 dB at 6930.000 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: Tina Chuang

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1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature							
Equipment	Phone						
Model Name	GD1YQ						
FCC ID	A4RGD1YQ						
EUT supports Radios application	CDMA/EV-DO/GSM/EGPRS/WCDM/HSPA/LTE/5G NR /NFC/GNSS/WPC/WPT WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE						

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

EU	JT Information List
S/N	Performed Test Item
04031FDD4000G8	Conducted Measurement EIRP
04071FDD40000A	Radiated Spurious Emission

1.2 Product Specification of Equipment Under Test

Product Specification subjective to this standard						
Tx Frequency	2307.5 MHz ~ 2312.5 MHz					
Rx Frequency	2352.5 MHz ~ 2357.5 MHz					
Bandwidth	5MHz / 10MHz					
Maximum Output Power to Antenna	<primary antenna="">: 24.48 dBm</primary>					
Maximum Output Fower to Antenna	<a>ASDIV Antenna>: 24.65 dBm					
Antonna Typo	<primary antenna="">: Monopole Antenna type</primary>					
Antenna Type	<a>ASDIV Antenna>: Monopole Antenna type					
Type of Modulation	QPSK / 16QAM / 64QAM					

<Primary Antenna>

Radio Tech	Band Number	Antenna name	Gain
LTE	B30	Ant 2	-2.3

<ASDIV Antenna>

Radio Tech	Band Number	Antenna name	Gain
LTE	LTE B30		-0.7

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1.3 Modification of EUT

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

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	Luffy Lin					
Temperature	22~25℃					
Relative Humidity	51~55%					

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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.	03CH12-HY			
Test Engineer	Jack Cheng, Lance Chiang and Chuan Chu			
Temperature	24.3~26.4℃			
Relative Humidity	56.1~68.1%			

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

FCC Designation No. TW1190 and TW0007

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1.5 Applied Standards

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

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- + ANSI C63.26-2015
- FCC 47 CFR Part 2, Part 27(D)
- ANSI / TIA-603-E
- FCC KDB 971168 Power Meas License Digital Systems D01 v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- FCC KDB 414788 D01 Radiated Test Site v01r01

Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. The TAF code is not including all the FCC KDB listed without accreditation.

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2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

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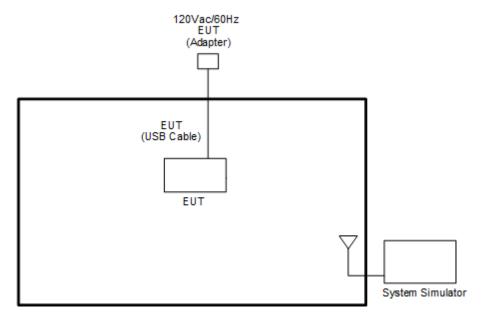
For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z and Accessory (Adapter or Earphone). The worst cases (Primary Antenna: Y plane with Adapter; ASDIV Antenna: Z plane with Earphone) were recorded in this report.

			Ва	andwid	lth (MF	łz)		Modulation			RB#			Test Channel		
Test Items	Band	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	М	н
Max. Output Power	30	-	-	٧	v	•	-	٧	v	v	٧	v	v	٧	v	v
Peak-to-Avera ge Ratio	30	-	-	v	v	•	-	٧	v	v	٧		v	v	v	v
E.I.R.P PSD	30	-	-	٧	v	1	-	v	v	v	>	v	v	٧	v	v
26dB and 99% Bandwidth	30	-	-	v	v	•	-	٧	V	v			v	v	v	v
Conducted Band Edge	30	-	-	V	v	•	-	V	v	v	٧		v	V		v
Conducted Spurious Emission	30	-	-	v	v	-	-	V	v	v	٧			v	v	v
Frequency Stability	30	-	-	v	v	-	-	٧	v	v			v		v	
Radiated Spurious Emission	30						٧	Vorst Cas	e					V	v	v
Remark	 The of differ report 	mark "-' device i rent RB rted.	ark "v" means that this configuration is chosen for testing ark "-v" means that this bandwidth is not supported. vice is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under at RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are d. radiated test cases were performed with Adapter 2									nder				

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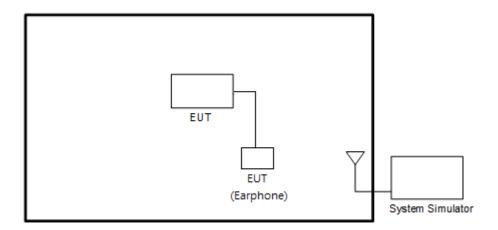
2.2 Connection Diagram of Test System

<Radiated Emission with Adapter>



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<Radiated Emission with Earphone>



2.3 Support Unit used in test configuration and system

I	tem	Equipment Trade Nam		Model No.	FCC ID	Data Cable	Power Cord	
	1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m	

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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 EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Example:

Offset(dB) = RF cable loss(dB) + attenuator factor(dB). = 4.2 + 10 = 14.2 (dB)

2.5 Frequency List of Low/Middle/High Channels

	LTE Band 30 Ch	annel and Frequen	LTE Band 30 Channel and Frequency List											
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest										
10	Channel	-	27710	-										
10	Frequency	-	2310	-										
5	Channel	27685	27710	27735										
5	Frequency	2307.5	2310	2312.5										

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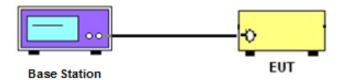
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

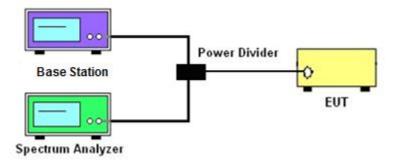
3.1.1 Test Setup

3.1.2 Conducted Output Power

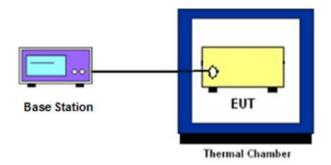


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3.1.3 Peak-to-Average Ratio, Occupied Bandwidth, 26dB Bandwidth ,Band-Edge and Conducted Spurious Emission



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 EIRP Measurement

3.2.1 Description of the Conducted Output Power Measurement and EIRP Measurement

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

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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_C = 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 the 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

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

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3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

- 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.
- 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 EIRP Power Density

3.4.1 Description of EIRP Power Density

For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.

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3.4.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.4.5

- 1. Set instrument center frequency to OBW center frequency.
- 2. Set span to at least 1.5 times the OBW.
- 3. Set the RBW to the specified reference bandwidth (5MHz).
- 4. Set VBW ≥ 3 × RBW.
- 5. Detector = RMS (power averaging).
- 6. Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span/RBW}$.
- 7. Sweep time = auto couple.
- 8. Employ trace averaging (RMS) mode over a minimum of 100 traces.
- 9. Use the peak marker function to determine the maximum amplitude level within the reference bandwidth (PSD).
- 10. Determine the EIRP by adding the effective antenna gain to the adjusted power level.

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3.5 Occupied Bandwidth

3.5.1 Description of Occupied Bandwidth Measurement

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

3.5.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

- 1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency.
 The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
- 3. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- 4. Set the detection mode to peak, and the trace mode to max hold.
- Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace. (this is the reference value)
- 6. Determine the "-26 dB down amplitude" as equal to (Reference Value X).
- 7. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the "–X dB down amplitude" determined in step 6. If a marker is below this "-X dB down amplitude" value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
- 8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

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3.6 Conducted Band Edge

3.6.1 Description of Conducted Band Edge Measurement

27.53 (a)(4)

For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

(i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz.

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(ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz.

(iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

- 1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 2. The band edges of low and high channels for the highest RF powers were measured.
- 3. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
- 4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
- 5. Set spectrum analyzer with RMS detector.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 7. Checked that all the results comply with the emission limit line.

The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)

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3.7 Conducted Spurious Emission

3.7.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 70 + 10 log (P) dB.

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It is measured by means of a calibrated spectrum analyzer and scanned from 9 kHz up to a frequency including its 10th harmonic.

3.7.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

- 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. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
- 6. Set spectrum analyzer with RMS detector.
- 7. Taking the record of maximum spurious emission.
- 8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 9. The limit line is derived from 70 + 10log(P)dB below the transmitter power P(Watts)

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3.8 Frequency Stability

3.8.1 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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3.8.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

- 1. The EUT was set up in the thermal chamber and connected with the system simulator.
- With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. 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.

3.8.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

- 1. The EUT was placed in a temperature chamber at 20±5° C and connected with the system simulator.
- 2. The power supply voltage to the EUT was varied from 85% 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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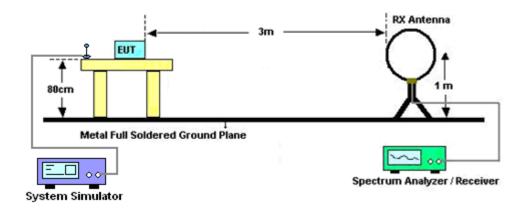
4 Radiated Test Items

4.1 Measuring Instruments

See list of measuring instruments of this test report.

4.1.1 Test Setup

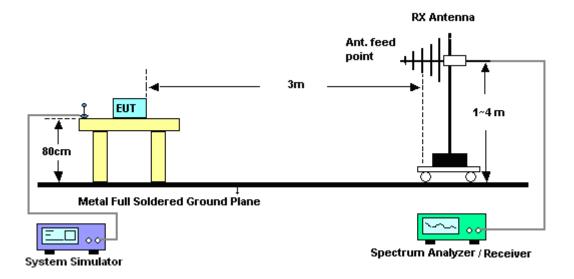
For radiated emissions below 30MHz



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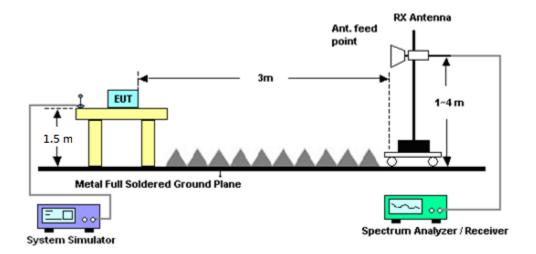
: 01

For radiated test from 30MHz to 1GHz



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For radiated test above 1GHz



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4.1.2 Test Result of Radiated Test

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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4.2 Radiated Spurious Emission Measurement

4.2.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E 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 70 + 10 log (P) dB.

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The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

- 1. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
- 2. The EUT was set 3 meters from the receiving antenna 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 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
- 5. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
- 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, 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.

```
EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain ERP (dBm) = EIRP - 2.15
```

4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from 70 + 10log(P)dB below the transmitter power P(Watts)

- = P(W) [70 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [70 + 10log(P)] (dB)
- = -40 dBm.

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5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
LTE Base Station	Anritsu	MT8821C	626200253 41	-	Oct. 24, 2019	Apr. 30, 2020~ May 06, 2020	Oct. 23, 2020	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 15, 2019	Apr. 30, 2020~ May 06, 2020	Nov. 14, 2020	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40°C~90°C	Sep. 02, 2019	Apr. 30, 2020~ May 06, 2020	Sep. 01, 2020	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890094	1V~20V 0.5A~5A	Oct. 09, 2019	Apr. 30, 2020~ May 06, 2020	Oct. 08, 2020	Conducted (TH05-HY)
Coupler	Warison	20dB 25W SMA Directional Coupler	#A	1-18GHz	Jan. 13, 2020	Apr. 30, 2020~ May 06, 2020	Jan. 12,2021	Conducted (TH05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Dec. 26, 2019	Apr. 29, 2020~ Jun. 20, 2020	Dec. 25, 2020	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01 N-06	37059 & 01	30MHz~1GHz	Oct. 12, 2019	Apr. 29, 2020~ Jun. 20, 2020	Oct. 11, 2020	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-132 8	1GHz ~ 18GHz	Nov. 14, 2019	Apr. 29, 2020~ Jun. 20, 2020	Nov. 13, 2020	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-152 2	1GHz ~ 18GHz	Sep. 19, 2019	Apr. 29, 2020~ Jun. 20, 2020	Sep. 18, 2020	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 584	18GHz ~ 40GHz	Dec. 10, 2019	Apr. 29, 2020~ Jun. 20, 2020	Dec. 09, 2020	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 980	18GHz ~ 40GHz	Jan. 10, 2019	Apr. 29, 2020~ Jun. 20, 2020	Jan. 09, 2021	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 25, 2020	Apr. 29, 2020~ Jun. 20, 2020	Mar. 24, 2021	Radiation (03CH12-HY)
Preamplifier	Jet-Power	JPA00101800 -30-10P	160118000 2	1GHz~18GHz	Feb. 07, 2020	Apr. 29, 2020~ Jun. 20, 2020	Feb. 06, 2021	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 13, 2019	Apr. 29, 2020~ Jun. 20, 2020	Dec. 12, 2020	Radiation (03CH12-HY)
Preamplifier	Keysight	83017A	MY532701 48	1GHz~26.5GHz	Dec. 20, 2019	Apr. 29, 2020~ Jun. 20, 2020	Dec. 19, 2020	Radiation (03CH12-HY)
Signal Analyzer	Agilent	N9010A	MY534701 18	10Hz~44GHz	Mar. 12, 2020	Apr. 29, 2020~ Jun. 20, 2020	Mar. 11, 2021	Radiation (03CH12-HY)
Signal Generator	Rohde & Schwarz	SMB100A	101107	100kHz~40GHz	Aug. 27, 2019	Apr. 29, 2020~ Jun. 20, 2020	Aug. 26, 2020	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP140349	N/A	Oct. 25, 2019	Apr. 29, 2020~ Jun. 20, 2020	Oct. 24, 2020	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30M-18G	Dec. 12, 2019	Apr. 29, 2020~ Jun. 20, 2020	Dec. 11, 2020	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Feb. 25, 2020	Apr. 29, 2020~ Jun. 20, 2020	Feb. 24, 2021	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30M~40GHz	Feb. 25, 2020	Apr. 29, 2020~ Jun. 20, 2020	Feb. 24, 2021	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Apr. 29, 2020~ Jun. 20, 2020	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1m~4m	N/A	Apr. 29, 2020~ Jun. 20, 2020	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Apr. 29, 2020~ Jun. 20, 2020	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-00098 9	N/A	N/A	Apr. 29, 2020~ Jun. 20, 2020	N/A	Radiation (03CH12-HY)

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6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.24
33 / (0 = 200(y))	

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

Measuring Uncertainty for a Level of	2.62
Confidence of 95% (U = 2Uc(y))	3.62

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of	4.06
Confidence of 95% (U = 2Uc(y))	4.06

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Appendix A. Test Results of Conducted Test

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Conducted Output Power(Average power)

<Primary Antenna>

<primary< th=""><th>, Allicolli</th><th></th><th>Band 30 Ma</th><th>ximum Average Po</th><th>wer [dBm]</th><th></th></primary<>	, Allicolli		Band 30 Ma	ximum Average Po	wer [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0			24.48	
10	1	25			24.38	1
10	1	49			24.36	1
10	25	0	QPSK		23.42	
10	25	12			23.48	1
10	25	25			23.49	1
10	50	0			23.46	1
10	1	0			23.76	1
10	1	25			23.77	1
10	1	49			23.74	1
10	25	0	16-QAM	-	22.42	-
10	25	12			22.47	
10	25	25			22.49	
10	50	0			22.44	1
10	1	0			22.58	1
10	1	25			22.70	1
10	1	49			22.54	1
10	25	0	64-QAM		21.44	1
10	25	12			21.51	1
10	25	25			21.50	1
10	50	0			21.51	1
5	1	0		24.42	24.38	24.46
5	1	12		24.35	24.35	24.35
5	1	24		24.29	24.29	24.33
5	12	0	QPSK	23.35	23.33	23.35
5	12	7		23.38	23.39	23.48
5	12	13		23.40	23.43	23.46
5	25	0		23.40	23.45	23.44
5	1	0		23.74	23.70	23.74
5	1	12		23.75	23.76	23.70
5	1	24		23.71	23.69	23.70
5	12	0	16-QAM	22.32	22.39	22.34
5	12	7		22.42	22.44	22.47
5	12	13		22.49	22.42	22.43
5	25	0		22.40	22.43	22.41
5	1	0		22.58	22.49	22.57
5	1	12		22.68	22.70	22.61
5	1	24		22.44	22.45	22.47
5	12	0	64-QAM	21.35	21.38	21.37
5	12	7		21.43	21.43	21.42
5	12	13		21.45	21.47	21.42
5	25	0		21.51	21.45	21.47



<ASDIV Antenna>

<asdiv< th=""><th></th><th></th><th>Band 30 Ma</th><th>ximum Average Po</th><th>ower [dBm]</th><th></th></asdiv<>			Band 30 Ma	ximum Average Po	ower [dBm]	
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0			24.61	
10	1	25			24.65	
10	1	49			24.62	1
10	25	0	QPSK		23.62]
10	25	12			23.68	
10	25	25			23.71	
10	50	0			23.69	
10	1	0			23.99	
10	1	25			23.93	
10	1	49			23.98	
10	25	0	16-QAM	-	22.64	-
10	25	12			22.71	
10	25	25			22.70	1
10	50	0			22.70	
10	1	0			22.82	1
10	1	25			22.90]
10	1	49			22.83	1
10	25	0	64-QAM		21.69	1
10	25	12			21.71	1
10	25	25			21.75	1
10	50	0			21.70	1
5	1	0		24.53	24.51	24.55
5	1	12		24.60	24.59	24.63
5	1	24		24.54	24.56	24.60
5	12	0	QPSK	23.60	23.61	23.57
5	12	7		23.62	23.64	23.59
5	12	13		23.68	23.63	23.64
5	25	0		23.62	23.64	23.63
5	1	0		23.93	23.96	23.93
5	1	12		23.93	23.88	23.88
5	1	24		23.93	23.89	23.92
5	12	0	16-QAM	22.54	22.59	22.60
5	12	7		22.68	22.65	22.71
5	12	13		22.65	22.64	22.67
5	25	0		22.63	22.67	22.62
5	1	0		22.81	22.75	22.78
5	1	12		22.81	22.86	22.82
5	1	24		22.80	22.77	22.80
5	12	0	64-QAM	21.65	21.63	21.60
5	12	7		21.64	21.63	21.63
5	12	13		21.69	21.73	21.68
5	25	0		21.70	21.65	21.63

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LTE Band 30

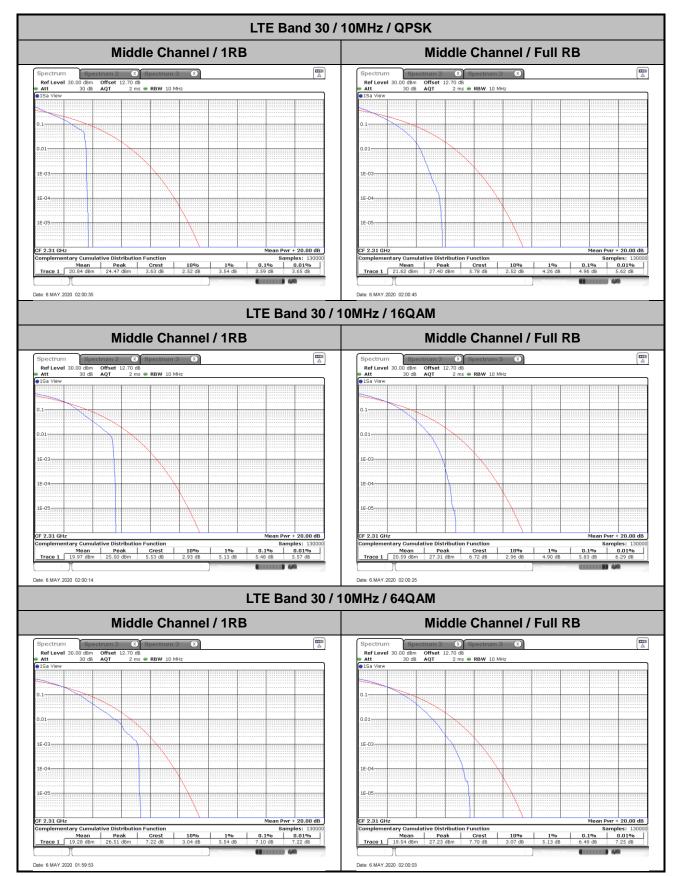
Peak-to-Average Ratio

Mode		LTE Band	30 / 10MHz		
Mod.	QP	SK	160	Limit: 13dB	
RB Size	1RB Full RB		1RB	Full RB	Result
Lowest CH	-	-	-	-	
Middle CH	3.59	4.96	5.48	5.83	PASS
Highest CH	-	-	-	-	
Mode		LTE Band	30 / 10MHz		
Mod.	64C	AM			Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	
Middle CH	7.10	6.49	-	-	PASS
Highest CH	-	-	-	-	

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EIRP Power Density

Mode		LTE Band 30 : Conducted Power Density (dBm/5MHz)										
BW	1.4MHz 3MHz			5M	5MHz		10MHz		ЛHz	20MHz		
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	23.71	23.29	-	-	-	-	-	-
Middle CH	-	-	-	-	23.59	23.39	23.61	23.03	-	-	-	-
Highest CH	-	-	-	-	23.70	23.05	-	-	-	-	-	-
Mode			LT	E Band	30 : Con	ducted I	Power D	ensity (d	IBm/5MH	Hz)		
BW	1.4	ИHz	3M	lHz	5M	5MHz		10MHz		ЛHz	20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	21.97	-	-	-	-	-	-	-
Middle CH	-	-	-	-	21.75	-	21.96	-	-	-	-	-
Highest CH	-	-	-	-	22.21	-	-	-	-	-	-	-

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Mode				LTE Ba	nd 30 : E	IRP Pov	ver Dens	ity (dBn	n/5MHz)			
BW	1.4	ИHz	3M	lHz	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	23.41	22.99			-	-	-	-
Middle CH	-	-	-	-	23.29	23.09	23.31	22.73	-	-	-	-
Highest CH	-	-	-	-	23.40	22.75			-	-	-	-
Mode		LTE Band 30 : EIRP Power Density (dBm/5MHz)										
BW	1.4	ИHz	3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	21.67	-	-	-	-	-	-	-
Middle CH	-	-	-	-	21.45	-	21.66	-	-	-	-	-
Highest CH	-	-	-	-	21.91	-	-	-	-	-	-	-
Antenna Gain						-0.3	dBi					
Limit					250mW	/ 5MHz :	= 24dBm	/5MHz				
Result						Pa	SS					

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Date: 6.MAY.2020 02:03:32

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Report No.: FG011718-01D LTE Band 30 / 5MHz Lowest Channel / 5MHz / 1RB0 / QPSK Lowest Channel / 5MHz / 1RB0 / 16QAM SGL Count 100/100 1Rm AvgPwr 23.71 dBr 2.3055520 GF M1 M1 10 dBm Date: 6.MAY.2020 02:01:42 Date: 6.MAY.2020 02:02:01 Middle Channel / 5MHz / 1RB0 / QPSK Middle Channel / 5MHz / 1RB0 / 16QAM | Spectrum | Spectrum 2 | Spectrum 3 | Spectrum 4 | Spectrum 5 | Spectrum 5 | Spectrum 6 | Spectrum 6 | Spectrum 7 | Spect M1[1] 10 dBm Highest Channel / 5MHz / 1RB0 / 16QAM Highest Channel / 5MHz / 1RB0 / QPSK M1[1] 23.70 dB M1[1] 10 dBm

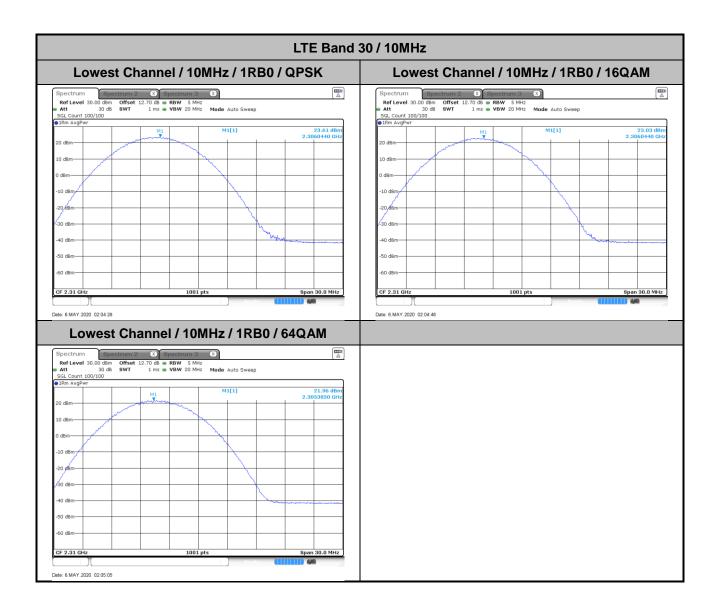
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CF 2.3125 GH:

Date: 6.MAY.2020 02:03:51

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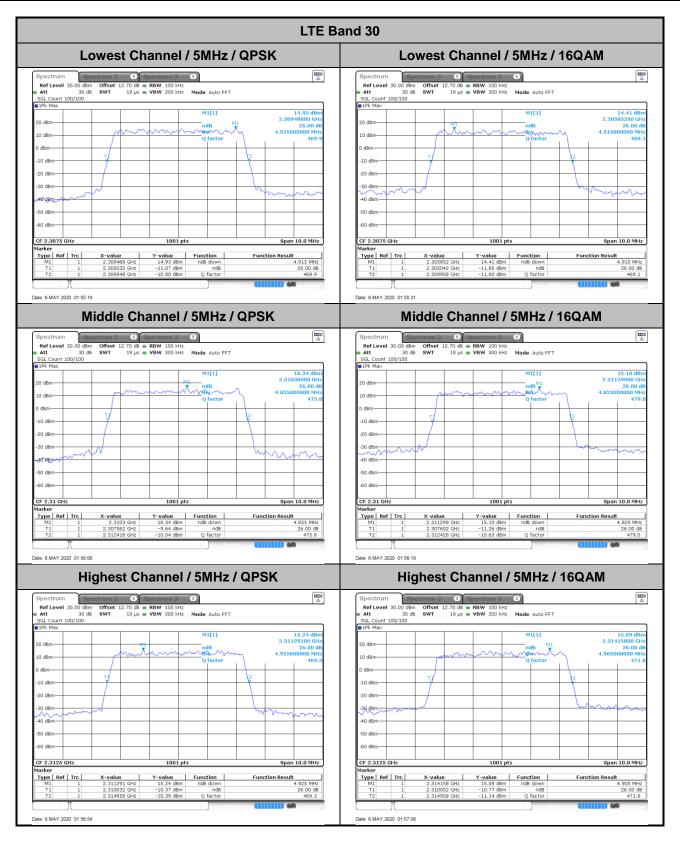
26dB Bandwidth

Mode					LTE Ba	and 30 : :	26dB BV	V(MHz)				
BW	1.4MHz 3MH			lHz	z 5MHz			10MHz		ЛHz	20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.92	4.92	-	-	-	-	-	-
Middle CH	-	-	-	-	4.86	4.83	9.67	9.83	-	-	-	-
Highest CH	-	-	-	-	4.93	4.91	-	-	-	-	-	-
Mode					LTE Ba	and 30 :	26dB BV	V(MHz)				
BW	1.4	ИHz	3M	lHz	5N	lHz	101	ЛHz	15N	ЛHz	20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.93	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.96	-	9.77	-	-	-	-	-
Highest CH	-	-	-	-	4.90	-	-	-	-	-	-	-

Report No. : FG011718-01D

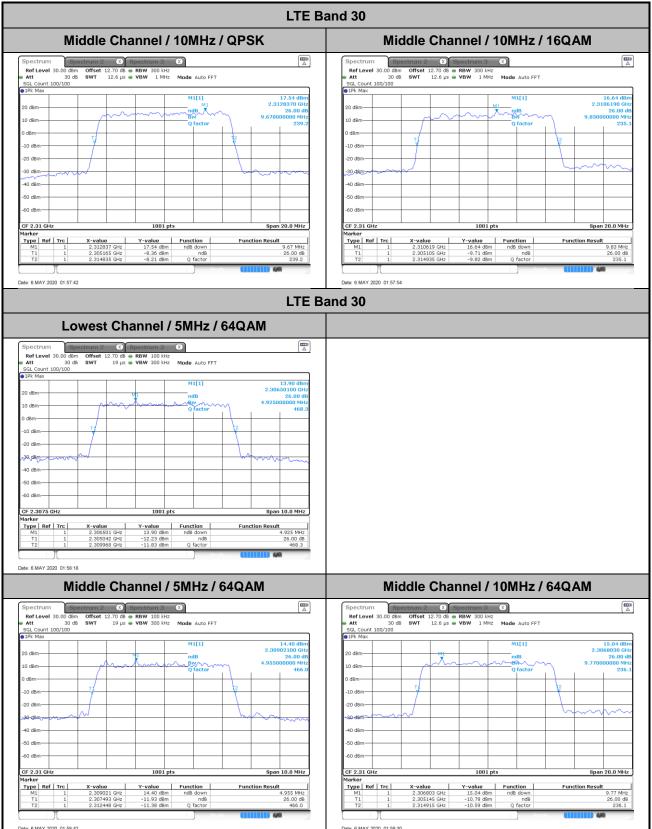
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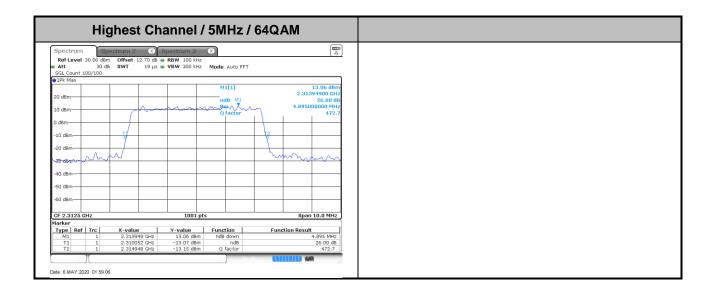


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Occupied Bandwidth

Mode					LTE Ba	and 30 :	99%OBV	V(MHz)				
BW	1.4MHz 3MHz				5M	lHz	101	10MHz		ИHz	20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.48	4.51	-	-	-	-	-	-
Middle CH	-	-	-	-	4.48	4.48	9.05	9.03	-	-	-	-
Highest CH	-	-	-	-	4.49	4.49	-	-	-	-	-	-
Mode					LTE Ba	and 26 :	99%OBV	V(MHz)				
BW	1.4	ИHz	3M	lHz	5M	lHz	101	ИHz	151	ИHz	20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.49	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.48	-	9.01	-	-	-	-	-
Highest CH	-	-	-	-	4.50	-	-	-	-	-	ı	-

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CF 2.3125 GHz Marker

Date: 6.MAY.2020 01:56:30

1001 pts

2.3102722 GHz 2.3147577 GHz

Function

9.16 dBm Occ Bw 10.88 dBm

Report No.: FG011718-01D LTE Band 30 Lowest Channel / 5MHz / QPSK Lowest Channel / 5MHz / 16QAM Ref Level 30.00 dBm Offset 12.70 d8 RBW 100 kHz 30 db SWT 19 µs WBW 300 kHz Mode Auto FFT SGL Count 100/100 SGL Count 100/100 16.27 dBi 2.30953800 GF 4.475524476 MF dBm--10 dBm -20 dBm mm 40 dBm -40 dBm--50 dBm--50 dBm-CF 2.3075 GHz CF 2.3075 GHz 1001 pts Span 10.0 MHz 1001 pts Span 10.0 MHz
 X-value
 Y-value
 Function

 2.309538 GHz
 16.27 dBm

 2.3052622 GHz
 10.19 dBm
 Occ BW

 2.3097378 GHz
 9.49 dBm

 X-value
 Y-value
 Function

 2.30726 GHz
 14.75 dBm
 Occ Bw

 2.3052423 GHz
 9.87 dBm
 Occ Bw

 2.3097478 GHz
 9.15 dBm
 Occ Bw
 Type | Ref | Trc | Type | Ref | Trc | Function Result **Function Result** 4.475524476 MHz 4.505494505 MHz Date: 6.MAY.2020 01:54:55 Date: 6.MAY.2020 01:55:07 Middle Channel / 5MHz / QPSK Middle Channel / 5MHz / 16QAM M1[1] 15.72 dB M1[1] 13.81 dBr 10 dBm--10 dBn -10 dBm -30 dBm -30 dBm--40 dBm--50 dBm -60 dBm--60 dBm-
 Type
 Ref
 Trc
 X-value
 Y-value
 Function

 M1
 1
 2.309091 GHz
 13.81 d8m
 8.55 dBm Occ Bw 9.49 dBm 2.31025 GHz 15.72 dBm 2.3077622 GHz 10.78 dBm Occ Bw 2.3122378 GHz 11.32 dBm Highest Channel / 5MHz / QPSK Highest Channel / 5MHz / 16QAM Spectrum 2 X Spectrum 3 X Spectrum 2 X Spectrum 3 X 14.72 dBm 2.31297000 GH; 4.485514486 MH; M1[1] 15.03 dBi 2.31385900 GF 4.485514486 MF M1[1] 10 dBm--20 dBm-30,d8m-



Span 10.0 MHz

4.485514486 MHz

Function Result

-40 dBm--60 dBm-CF 2.3125 GHz

Date: 6.MAY.2020 01:56:42

1001 pts

2.3102622 GHz 2.3147478 GHz

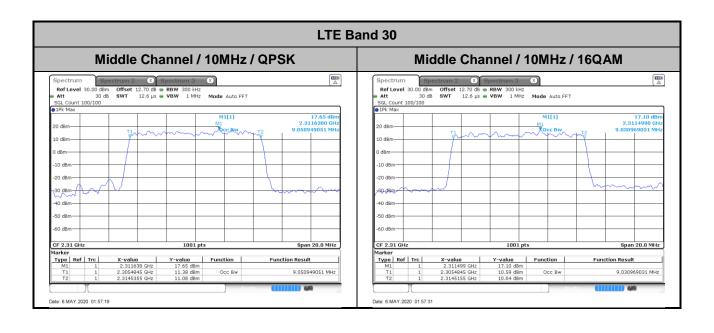
Function

Occ Bw

Span 10.0 MHz

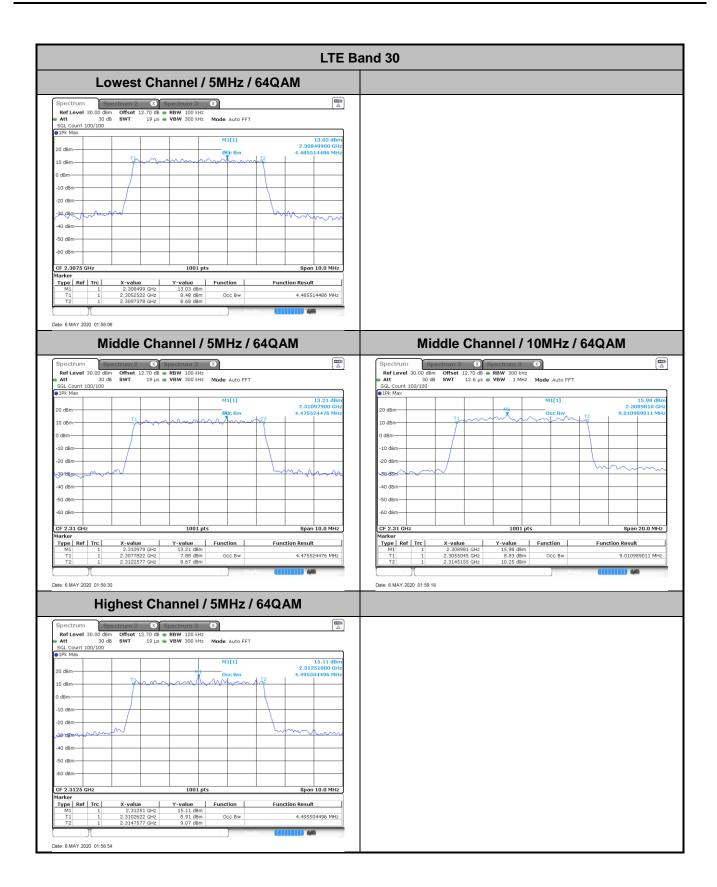
4.485514486 MHz

Function Result



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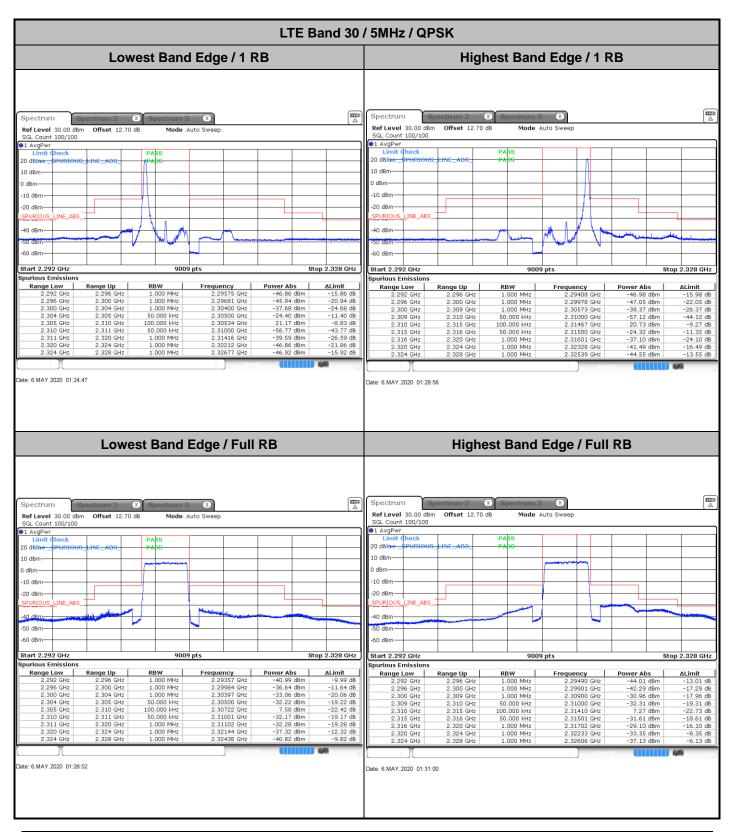
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Conducted Band Edge



TEL: 886-3-327-3456 Page Number : A2-15 of 25

Report No.: FG011718-01D LTE Band 30 / 5MHz / 16QAM Highest Band Edge / 1 RB Lowest Band Edge / 1RB Spectrum Offset 12.70 dB Ref Level 30.00 dBm Offset 12.70 dB Mode Auto Sweet SGL Count 100/100 SGL Count 100/100 ●1 AvgPw ●1 AvgPw 20 dBime 10 dBm 10 dBm-1 dBm -10 dBm -20 dBm INE_ABS PURIOU INE ABS 40 dBm-40 dBm 50 dBm-60 dBm--60 dBm-Start 2.292 GHz Start 2.292 GHz 9009 pts Stop 2.328 GHz ious Emission: purious Emissions Range Low 2 292 GHz Power Abs
-46.86 dBm
-45.79 dBm
-35.81 dBm
-24.47 dBm
20.26 dBm
-57.93 dBm
-39.71 dBm
-46.99 dBm
-47.07 dBm 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz Range Low 2.292 GH Range Up Frequency ∆Limit Range Up Power Abs ΔLimit 2.29593 GHz 2.29645 GHz 2.30398 GHz 2.30590 GHz 2.30534 GHz 2.31001 GHz 2.31404 GHz 2.32336 GHz 2.32429 GHz -15.86 dB -20.79 dB -22.81 dB -11.47 dB -9.74 dB -44.93 dB -26.71 dB -21.99 dB -16.07 dB 16.02 dB -21.85 dB -24.01 dB -45.11 dB -9.48 dB -11.83 dB -24.76 dB -18.17 dB -14.90 dB 2.296 GHz 2.300 GHz 2.304 GHz 2.296 GHz 2.300 GHz 2.309 GHz 2.310 GHz 2.315 GHz 2.316 GHz 2.320 GHz 2.324 GHz 2.328 GHz 2.29405 GHz 2.29637 GHz 2.30604 GHz 2.30999 GHz 2.31464 GHz 2.31500 GHz 2.31607 GHz 2.32333 GHz 2.32410 GHz -46.85 dBn 2.296 GHz 2.300 GHz 2.309 GHz 2.310 GHz 2.315 GHz 2.316 GHz 2.320 GHz 2.324 GHz -46.85 dBm -37.01 dBm -58.11 dBm 20.52 dBm -24.83 dBm -37.76 dBm -43.17 dBm -45.90 dBm 50.000 kHz 100.000 kHz 50.000 kHz ate: 6.MAY.2020 01:25:30 Date: 6.MAY.2020 01:29:38 Lowest Band Edge / Full RB **Highest Band Edge / Full RB** Spectrum Spectrum Spectrum 2 Ref Level 30.00 dBm Offset 12.70 dB Ref Level 30.00 dBm Offset 12.70 dB Mode Auto Sweep SGL Count 100/100 ●1 AvgPwr 1 AvgPwr Limit (1 20 dBine _3 PARS on daine 10 dBm dBm -10 dBm -10 dBm--20 dBm--20 dBm-40 dBn -40 dBm -50 dBm--60 dBm-Start 2.292 GHz 9009 pt Stop 2.328 GHz Start 2.292 GHz urious Emissions urious Emissions -40.86 dBm -36.68 dBm -30.67 dBm -33.71 dBm -53.25 dBm -29.41 dBm -37.99 dBm -41.47 dBm 2.292 GHz
2.296 GHz
2.296 GHz
2.300 GHz
2.309 GHz
2.310 GHz
2.315 GHz
2.315 GHz
2.324 GHz Range Up 2.296 GHz 2.300 GHz 2.304 GHz 1.000 MHz 1.000 MHz 1.000 MHz 2.29596 GHz 2.29998 GHz 2.30400 GHz -9.86 dB -11.68 dB -17.67 dB -20.71 dB -23.50 dB -20.25 dB -16.41 dB -12.99 dB -10.47 dB -13.72 dB -17.51 dB -14.74 dB -20.20 dB -23.72 dB -19.43 dB -12.65 dB -5.89 dB -4.71 dB 2.300 GHz 2.304 GHz 2.305 GHz 2.310 GHz 2.311 GHz 2.320 GHz 2.304 GHz 2.305 GHz 2.310 GHz 2.311 GHz 2.320 GHz 2.324 GHz 2.328 GHz 1.000 MHz 50.000 kHz 100.000 kHz 50.000 kHz 1.000 MHz 1.000 MHz 1.000 MHz 2.30400 GHz 2.30500 GHz 2.30665 GHz 2.31000 GHz 2.31115 GHz 2.32025 GHz 2.32408 GHz

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Date: 6.MAY.2020 01:31:42

FAX: 886-3-328-4978

ate: 6.MAY.2020 01:27:34

Report No.: FG011718-01D LTE Band 30 / 5MHz / 64QAM Highest Band Edge / 1 RB Lowest Band Edge / 1RB Spectrum Offset 12.70 dB Ref Level 30.00 dBm Offset 12.70 dB Mode Auto Sweet SGL Count 100/100 SGL Count 100/100 ●1 AvgPw ●1 AvgPw 20 dBime 10 dBm 10 dBm-1 dBm -10 dBm -20 dBm INE_ABS PURIOU INE ABS 40 dBm-40 dBm 60 dBm--60 dBm-Start 2.292 GHz Start 2.292 GHz 9009 pts Stop 2.328 GHz ious Emission: purious Emissions Range Low 2 292 GHz Power Abs
-46.49 dBm
-46.25 dBm
-37.84 dBm
-26.97 dBm
19.01 dBm
-59.06 dBm
-41.37 dBm
-46.98 dBm
-46.95 dBm Frequency
2.29531 GHz
2.29850 GHz
2.30581 GHz
2.30598 GHz
2.31469 GHz
2.31500 GHz
2.31500 GHz
2.31601 GHz
2.32088 GHz
2.32521 GHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz -47.04 dBm -47.10 dBm -38.40 dBm Range Low 2.292 GH Range Up Frequency ∆Limit Range Up ΔLimit 2.296 GHz 2.300 GHz 2.304 GHz 2.304 16.04 dB -22.10 dB -25.40 dB -45.95 dB -10.95 dB -13.33 dB -24.85 dB -19.14 dB -14.01 dB -15.49 dB -21.25 dB -24.84 dB -13.97 dB -10.99 dB -46.06 dB -28.37 dB -21.98 dB -15.95 dB 2.296 GHz 2.300 GHz 2.309 GHz 2.310 GHz 2.315 GHz 2.316 GHz 2.320 GHz 2.324 GHz 2.328 GHz 2.296 GHz 2.300 GHz 2.309 GHz 2.310 GHz 2.315 GHz 2.316 GHz 2.320 GHz 2.324 GHz 50.000 kHz 100.000 kHz 50.000 kHz 19.05 dBm -26.33 dBm -37.85 dBm -44.14 dBm ate: 6.MAY.2020 01:26:11 Date: 6.MAY.2020 01:30:19 Lowest Band Edge / Full RB **Highest Band Edge / Full RB** Spectrum Spectrum Spectrum 2 X Spectrum 3 X Ref Level 30.00 dBm Offset 12.70 dB Ref Level 30.00 dBm Offset 12.70 dB Mode Auto Sweep SGL Count 100/100 ●1 AvgPwr 1 AvgPwr Limit (1 20 dBine _3 PARS on daine 10 dBm dBm -10 dBm -10 dBm--20 dBm--20 dBm-40 dBn -40 dBm -50 dBm--60 dBm-Start 2.292 GHz 9009 pt Stop 2.328 GHz Start 2.292 GHz urious Emissions urious Emissions -40.26 dBm -35.46 dBm -27.79 dBm -33.88 dBm -5.59 dBm -33.91 dBm -28.52 dBm -38.04 dBm -42.27 dBm 2.292 GHz
2.296 GHz
2.296 GHz
2.300 GHz
2.309 GHz
2.310 GHz
2.315 GHz
2.315 GHz
2.324 GHz ALimit
-9.26 dB
-10.46 dB
-14.79 dB
-20.88 dB
-24.41 dB
-20.91 dB
-15.52 dB
-13.04 dB
-11.27 dB ALimit
-13.70 dB
-16.96 dB
-12.64 dB
-20.60 dB
-24.36 dB
-19.33 dB
-10.71 dB
-5.03 dB
-4.62 dB Range Up 2.296 GHz 2.300 GHz 2.304 GHz 1.000 MHz 1.000 MHz 1.000 MHz 2.29587 GHz 2.29996 GHz 2.30385 GHz 2.300 GHz 2.304 GHz 2.305 GHz 2.310 GHz 2.311 GHz 2.320 GHz 2.304 GHz 2.305 GHz 2.310 GHz 2.311 GHz 2.320 GHz 2.324 GHz 2.328 GHz 2.30385 GHz 2.30500 GHz 2.30642 GHz 2.31000 GHz 2.31103 GHz 2.32047 GHz 2.32403 GHz 50.000 kHz 100.000 kHz 50.000 kHz 1.000 MHz 1.000 MHz 1.000 MHz

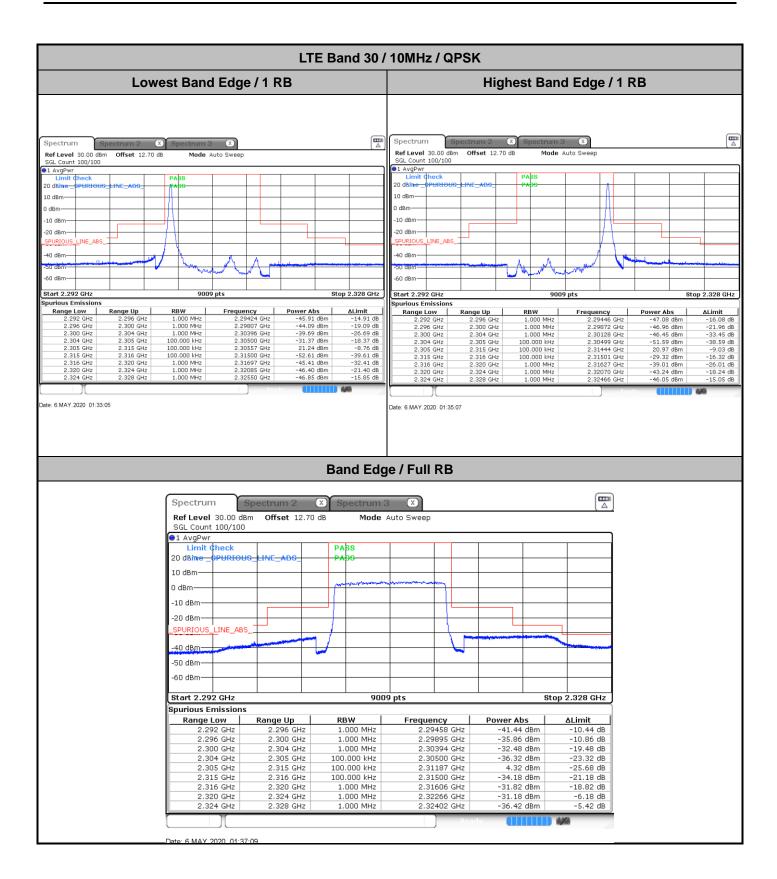
TEL: 886-3-327-3456 Page Number: A2-17 of 25

Date: 6.MAY.2020 01:32:23

FAX: 886-3-328-4978

ate: 6.MAY.2020 01:28:15

TEST REPORT Report No. : FG011718-01D



TEL: 886-3-327-3456 Page Number : A2-18 of 25

Report No.: FG011718-01D LTE Band 30 / 10MHz / 16QAM Lowest Band Edge / 1 RB Highest Band Edge / 1 RB Spectrum Offset 12.70 dB Ref Level 30.00 dBm Offset 12.70 dB Mode Auto Sweet SGL Count 100/100 SGL Count 100/100 ●1 AvgPw ●1 AvgPw 20 dBime 10 dBm 10 dBm-1 dBm -10 dBm -20 dBm INE_ABS INE ABS 40 dBm-40 dBm 60 dBm -60 dBm-9009 pts Stop 2.328 GHz Start 2.292 GHz Range Up ious Emission: purious Emissions Power Abs
-47.22 dBm
-46.91 dBm
-45.68 dBm
-54.83 dBm
20.23 dBm
-29.94 dBm
-38.94 dBm
-44.02 dBm
-45.58 dBm Range Up
2.296 GHz
2.300 GHz
2.304 GHz
2.305 GHz
2.315 GHz
2.316 GHz
2.320 GHz
2.324 GHz
2.328 GHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz 2.29568 GHz 2.29568 GHz 2.29835 GHz 2.30286 GHz 2.30403 GHz Range Low 2.292 GH Frequency -46.12 dBr ∆Limit Range Low 2.292 GHz ΔLimit wer Abs
-46.12 dBm
-42.29 dBm
-38.97 dBm
-32.85 dBm
19.91 dBm
-55.78 dBm
-46.22 dBm
-46.61 dBm
-47.13 dBm 15.12 dB -17.29 dB -25.97 dB -19.85 dB -10.09 dB -42.78 dB -33.22 dB -21.61 dB -16.13 dB ΔLimit
-16.22 dB
-21.91 dB
-32.68 dB
-41.83 dB
-9.77 dB
-16.94 dB
-25.94 dB
-19.02 dB
-14.58 dB 2.296 GHz 2.300 GHz 2.304 GHz 2.305 GHz 2.315 GHz 2.316 GHz 2.320 GHz 2.324 GHz 2.328 GHz 2.29582 GHz 2.29926 GHz 2.30278 GHz 2.30500 GHz 2.30561 GHz 2.31502 GHz 2.31619 GHz 2.32092 GHz 2.32466 GHz 2.296 GHz 2.300 GHz 2.304 GHz 2.305 GHz 2.315 GHz 2.316 GHz 2.320 GHz 2.324 GHz 100.000 kHz 100.000 kHz 100.000 kHz 2.30403 GHz 2.31441 GHz 2.31502 GHz 2.31605 GHz 2.32084 GHz 2.32607 GHz ate: 6.MAY.2020 01:33:45 Date: 6.MAY.2020 01:35:48 Band Edge / Full RB Spectrum Ref Level 30.00 dBm Offset 12.70 dB Mode Auto Sweep SGL Count 100/100 ∍1 AvgPwr Limit Check PASS 20 dBime 10 dBm 0 dBm -10 dBm -20 dBm-LINE ABS -50 dBm -60 dBm Start 2.292 GHz 9009 pts Stop 2.328 GHz Spurious Emissions Range Low 2.292 GHz Range Up 2.296 GHz RBW Frequency Power Abs -39.06 dBm ∆Limit -8.06 dB 1.000 MHz

TEL: 886-3-327-3456 Page Number : A2-19 of 25

1.000 MHz

1.000 MHz

100.000 kHz

100.000 kHz

100.000 kHz

1.000 MHz

1.000 MHz 1.000 MHz 2.29991 GHz

2.30499 GHz 2.31242 GHz

.31501 GHz

.32004 GHz

2.32401 GHz

2.31698 GHz

30371 GHz

-33.43 dBm

-30.43 dBm

-36.73 dBm

-34.37 dBm

-27.40 dBm

-33.60 dBm

3.83 dBm

-8.43 dB -17.43 dB

-23.73 dB

-26.17 dB

-21.37 dB

-14.40 dB

-3.15 dB -2.60 dB

FAX: 886-3-328-4978

2.296 GHz

2.300 GHz

2.304 GHz

2.305 GHz

2.315 GHz

2.316 GHz

2.320 GHz

2.324 GHz

2.300 GHz

2.305 GHz

2.315 GHz

2.320 GHz

2.324 GHz 2.328 GHz

316 GHz

304 GHz

Report No.: FG011718-01D LTE Band 30 / 10MHz / 64QAM Lowest Band Edge / 1 RB Highest Band Edge / 1 RB Spectrum Offset 12.70 dB Ref Level 30.00 dBm Offset 12.70 dB Mode Auto Sweet SGL Count 100/100 SGL Count 100/100 ●1 AvgPw ●1 AvgPw 20 dBime 10 dBm 10 dBm-1 dBm -10 dBm -20 dBm INE_ABS INE ABS 40 dBm-40 dBm 60 dBm -60 dBm-Start 2.292 GHz 9009 pts Stop 2.328 GHz Start 2.292 GHz Range Up ious Emission: purious Emissions Erequency
2.29569 GHz
2.29949 GHz
2.30398 GHz
2.30499 GHz
2.30558 GHz
2.31537 GHz
2.31536 GHz
2.31284 GHz
2.32407 GHz Power Abs
-46.11 dBm
-44.00 dBm
-37.81 dBm
-35.37 dBm
19.14 dBm
-56.60 dBm
-47.02 dBm
-46.96 dBm
-47.01 dBm Range Up
2.296 GHz
2.300 GHz
2.304 GHz
2.305 GHz
2.315 GHz
2.316 GHz
2.320 GHz
2.324 GHz
2.328 GHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz 2.29273 GHz 2.29273 GHz 2.29614 GHz 2.30318 GHz 2.30400 GHz -47.09 dBm -46.94 dBm -46.78 dBm -54.57 dBm Range Low 2.292 GH ∆Limit Range Low 2.292 GHz ΔLimit 15.11 dB -19.00 dB -24.81 dB -22.37 dB -10.86 dB -43.60 dB -34.02 dB -21.96 dB -16.01 dB -16.09 dB -21.94 dB -33.78 dB -41.57 dB -10.95 dB -18.68 dB -25.75 dB -17.77 dB -14.07 dB 2.296 GHz 2.300 GHz 2.304 GHz 2.305 GHz 2.315 GHz 2.316 GHz 2.320 GHz 2.324 GHz 2.328 GHz 2.296 GHz 2.300 GHz 2.304 GHz 2.305 GHz 2.315 GHz 2.316 GHz 2.320 GHz 2.324 GHz 100.000 kHz 100.000 kHz 100.000 kHz -54.57 dBm 19.05 dBm -31.68 dBm -38.75 dBm -42.77 dBm -45.07 dBm 2.30400 GHz 2.31439 GHz 2.31503 GHz 2.31604 GHz 2.32059 GHz 2.32414 GHz ate: 6.MAY.2020 01:34:26 Date: 6.MAY.2020 01:36:28 Band Edge / Full RB Spectrum Ref Level 30.00 dBm Offset 12.70 dB Mode Auto Sweep SGL Count 100/100 ∍1 AvgPwr Limit Check PASS 20 dBime 10 dBm 0 dBm -10 dBm -20 dBm-LINE ABS -50 dBm -60 dBm Start 2.292 GHz 9009 pts Stop 2.328 GHz Spurious Emissions Range Low 2.292 GHz Range Up 2.296 GHz RBW Frequency Power Abs -38.95 dBm ∆Limit 2.29581 GHz -7.95 dB -7.01 dB 1.000 MHz 2.296 GHz 2.300 GHz 1.000 MHz 2.29993 GHz -32.01 dBm 1.000 MHz 30389 GHz

TEL: 886-3-327-3456 Page Number : A2-20 of 25

100.000 kHz

100.000 kHz

100.000 kHz

1.000 MHz

1.000 MHz 1.000 MHz

-28.84 dBm

-36.63 dBm

-35.29 dBm

-26.60 dBm

-27.56 dBm

-32.84 dBm

2.50 dBm

2.30500 GHz 2.31275 GHz

.31501 GHz

.32016 GHz

2.31610 GHz

2.32410 GHz

-15.84 dB

-23.63 dB -27.50 dB

-22.29 dB

-13.60 dB

-1.84 dB

304 GHz

2.305 GHz

2.315 GHz

2.320 GHz

2.324 GHz 2.328 GHz

316 GHz

2.300 GHz

2.304 GHz

2.305 GHz

2.315 GHz

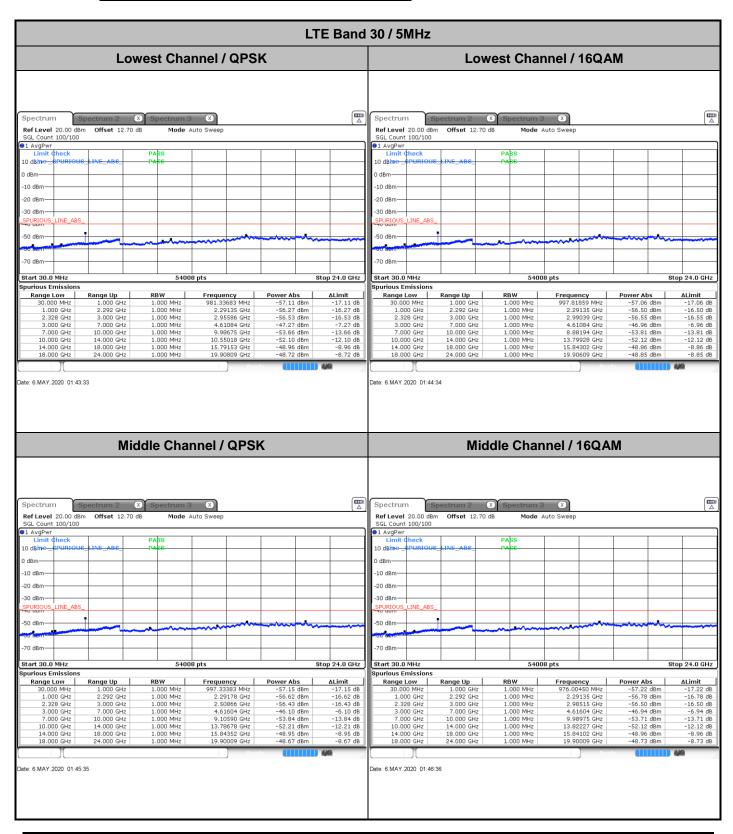
2.316 GHz

2.320 GHz

2.324 GHz



Conducted Spurious Emission



TEL: 886-3-327-3456 Page Number : A2-21 of 25

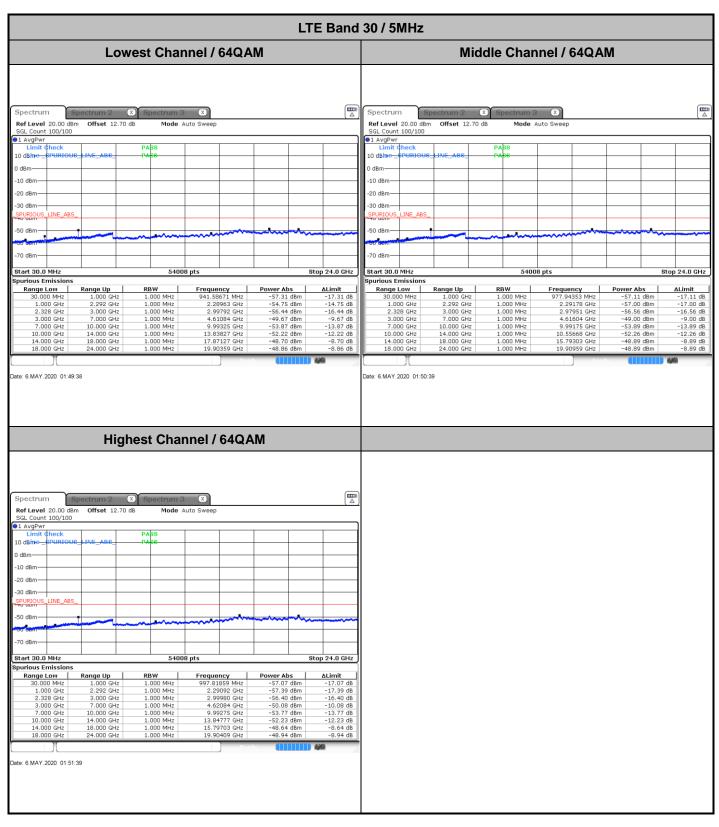
Report No.: FG011718-01D LTE Band 30 / 5MHz **Highest Channel / QPSK Highest Channel / 16QAM** Spectrum

Spectrum 2 X Spectrum 3 X **Ref Level** 20.00 dBm **Offset** 12.70 dB SGL Count 100/100 Ref Level 20.00 dBm SGL Count 100/100 Offset 12.70 dB 1 AvgPwr 1 AvgPw 10 dBine 10 dBim 1 dBm 1 dBn -20 dBm -20 dBm 30 dBm -30 dBm-LINE_ABS -50 dBm -50 dBm Stop 24.0 GHz Stop 24.0 GHz Start 30.0 MHz Start 30.0 MHz 54008 pts 54008 pts Start 30.0 MHz
Spurious Emissions
Range Low
30.000 MHz
1.000 GHz
2.328 GHz
3.000 GHz
7.000 GHz
10.000 GHz
14.000 GHz 959.52274 MHz 2.29092 GHz 2.32820 GHz 4.62084 GHz 9.99975 GHz 10.54418 GHz 15.82602 GHz 19.90959 GHz Power Abs
-57.20 dBm
-56.99 dBm
-56.32 dBm
-46.67 dBm
-53.81 dBm
-52.22 dBm
-48.75 dBm
-48.92 dBm Power Abs
-57.09 dBm
-57.20 dBm
-56.26 dBm
-47.24 dBm
-53.75 dBm
-52.22 dBm
-48.84 dBm
-48.72 dBm Range Low Range Up Range Up ΔLimit
-17.09 dB
-17.20 dB
-16.26 dB
-7.24 dB
-13.75 dB
-12.22 dB
-8.84 dB
-8.72 dB ate: 6.MAY.2020 01:47:36 Date: 6.MAY.2020 01:48:37 LTE Band 30 / 10MHz

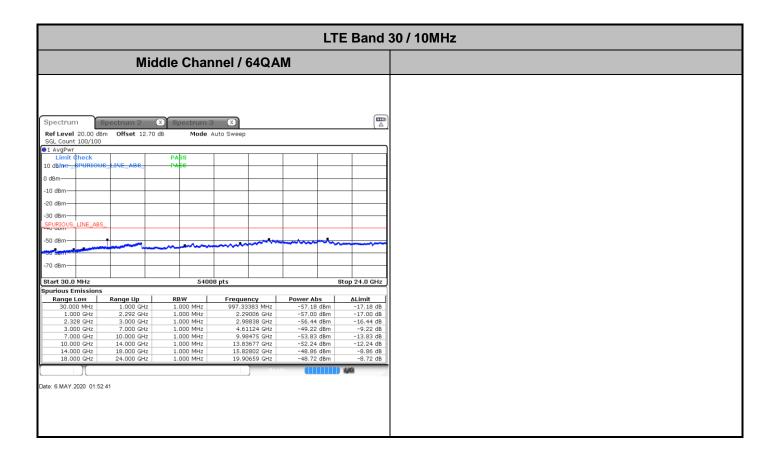
Middle Channel / QPSK Middle Channel / 16QAM Spectrum Spectrum 2 X Spectrum 3 X Spectrum Spectrum 2 X Spectrum 3 X Ref Level 20.00 dBm Offset 12.70 dB Ref Level 20.00 dBm Offset 12.70 dB SGL Count 100/100 1 AvgPwr Limit Check ●1 AvgPw Limit 10 dBine 10 dBim 1 dBm 1 dBm 10 dBm -20 dBm -20 dBm -30 dBm--30 dBm-50 dBm -50 dBm -70 dBm 54008 pts Stop 24.0 GHz Start 30.0 MHz 54008 pts Stop 24.0 GHz Start 30.0 MHz Spurious Emissions rious Emissions Power Abs
-57.08 dBm
-56.39 dBm
-56.52 dBm
-47.27 dBm
-53.72 dBm
-52.20 dBm
-49.00 dBm
-48.70 dBm ΔLimit
-17.30 dB
-16.67 dB
-14.74 dB
-7.41 dB
-13.89 dB
-12.17 dB
-8.72 dB
-8.89 dB ΔLimit
-17.08 dB
-16.39 dB
-16.52 dB
-7.27 dB
-13.72 dB
-12.20 dB
-9.00 dB
-8.70 dB Range Low 30.000 MHz Range Low 30.000 MHz ite: 6.MAY.2020 01:53:41 ate: 6.MAY.2020 01:54:42

TEL: 886-3-327-3456 FAX: 886-3-328-4978 Page Number

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Frequency Stability

Test C	Conditions	LTE Band 30 (QPSK) / Middle Channel	Limit
T	Valtana	BW 10MHz	Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0051	
40	Normal Voltage	0.0037	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0038	
-10	Normal Voltage	0.0009	PASS
-20	Normal Voltage	0.0029	
-30	Normal Voltage	0.0040	
20	Maximum Voltage	0.0014	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0010	

Report No. : FG011718-01D

Note:

- 1. Normal Voltage =3.87 V.; Battery End Point (BEP) =3.49 V.; Maximum Voltage =4.45 V.
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block.

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Appendix B. Test Results of EIRP and Radiated Test

EIRP

<Primary Antenna>

	LTE Band 30 / 5MHz (Average) (GT - LC = -2.3 dB)												
Channel	Mode	R	В	Cond	lucted	EIRP							
Chainei	Wode	Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)						
Lowest		1	0	24.42	0.2767	22.12	0.1629						
Middle	QPSK	1	0	24.38	0.2742	22.08	0.1614						
Highest		1	0	24.46	0.2793	22.16	0.1644						
Lowest		1	12	23.75	0.2371	21.45	0.1396						
Middle	16QAM	1	12	23.76	0.2377	21.46	0.1400						
Highest		1	12	23.70	0.2344	21.40	0.1380						
Lowest		1	12	22.68	0.1854	20.38	0.1091						
Middle	64QAM	1	12	22.70	0.1862	20.40	0.1096						
Highest		1	12	22.61	0.1824	20.31	0.1074						

	LTE Band 30 / 10MHz (Average) (GT - LC = -2.3 dB)											
Channel	Mode	R	RB	Cond	ucted	EIRP						
Channel	lviode	Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)					
Lowest		-	-	-	-	-	-					
Middle	QPSK	1	0	24.48	0.2805	22.18	0.1652					
Highest	1	-	-	-	-	-	-					
Lowest		-	-	-	-	-	-					
Middle	16QAM	1	25	23.77	0.2382	21.47	0.1403					
Highest		-	-	-	-	-	-					
Lowest		-	-	-	-	-	-					
Middle	64QAM	1	25	22.70	0.1862	20.40	0.1096					
Highest		_	-	-	-	-	-					

<ASDIV Antenna>

	LTE Band 30 / 5MHz (Average) (GT - LC = -0.7 dB)												
01 1	No. do	R	В	Cond	ucted	EII	RP						
Channel	Mode	Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)						
Lowest		1	12	24.60	0.2884	23.90	0.2455						
Middle	QPSK	1	12	24.59	0.2877	23.89	0.2449						
Highest		1	12	24.63	0.2904	23.93	0.2472						
Lowest		1	0	23.93	0.2472	23.23	0.2104						
Middle	16QAM	1	0	23.96	0.2489	23.26	0.2118						
Highest		1	0	23.93	0.2472	23.23	0.2104						
Lowest		1	12	22.81	0.1910	22.11	0.1626						
Middle	64QAM	1	12	22.86	0.1932	22.16	0.1644						
Highest		1	12	22.82	0.1914	22.12	0.1629						

Report No. : FG011718-01D

	LTE Band 30 / 10MHz (Average) (GT - LC = -0.7 dB)												
Channel	Mode	R	В	Cond	ucted	EIRP							
Channel	Wode	Size	Offset	Power (dBm)	Power (Watts)	EIRP(dBm)	EIRP(W)						
Lowest		1	-	-	-	-	-						
Middle	QPSK	1	25	24.65	0.2917	23.95	0.2483						
Highest		1	-	-	-	-	-						
Lowest		1	-	-	-	-	-						
Middle	16QAM	1	0	23.99	0.2506	23.29	0.2133						
Highest		1	-	-	-	-	-						
Lowest		1	-	-	-	-	-						
Middle	64QAM	1	25	22.90	0.1950	22.20	0.1660						
Highest		-	-	-	-	-	-						

Radiated Spurious Emission

<Primary Antenna> <Ant. 2>

LTE Band 30

Report No. : FG011718-01D

			ı	TE Band 30	/ 5MHz / QP	SK			
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	4615	-61.86	-40	-21.86	-55.39	-73.08	1.46	12.68	Н
	6922	-59.31	-40	-19.31	-59.57	-69.59	1.73	12.01	Н
	9230	-58.59	-40	-18.59	-61.4	-68.20	2.16	11.77	Н
									Н
									Н
									Н
Lowest									Н
Lowest	4615	-62.68	-40	-22.68	-55.43	-73.90	1.46	12.68	V
	6922	-59.40	-40	-19.40	-59.21	-69.68	1.73	12.01	V
	9230	-57.93	-40	-17.93	-61.75	-67.54	2.16	11.77	V
									V
									V
									V
									V
	4620	-61.33	-40	-21.33	-54.88	-72.55	1.46	12.68	Н
	6930	-53.62	-40	-13.62	-53.93	-63.89	1.73	12.00	Н
	9240	-58.52	-40	-18.52	-61.3	-68.12	2.16	11.76	Н
									Н
NAC I II.									Н
Middle									Н
									Н
	4620	-61.86	-40	-21.86	-54.64	-73.08	1.46	12.68	V
	6930	-50.93	-40	-10.93	-50.79	-61.20	1.73	12.00	V
	9240	-57.52	-40	-17.52	-61.33	-67.12	2.16	11.76	V

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	4625	-60.40	-40	-20.40	-53.97	-71.62	1.46	12.68	Н
	6936	-53.17	-40	-13.17	-53.51	-63.43	1.73	11.99	Н
	9250	-58.66	-40	-18.66	-61.42	-68.25	2.17	11.75	Н
									Н
									Н
									Н
Llimboot									Н
Highest	4625	-62.07	-40	-22.07	-54.87	-73.29	1.46	12.68	V
	6936	-52.15	-40	-12.15	-52.04	-62.41	1.73	11.99	V
	9250	-57.88	-40	-17.88	-61.68	-67.47	2.17	11.75	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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			Ľ	TE Band 30	/ 10MHz / QF	PSK			
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	4626	-57.76	-40	-17.76	-51.33	-68.97	1.46	12.67	Н
	6942	-47.41	-40	-7.41	-47.8	-57.66	1.73	11.98	Н
	9261	-59.12	-40	-19.12	-61.87	-68.69	2.17	11.74	Н
									Н
									Н
									Н
Middle									Н
Middle	4626	-57.24	-40	-17.24	-50.04	-68.45	1.46	12.67	V
	6942	-50.30	-40	-10.30	-50.23	-60.55	1.73	11.98	V
	9261	-58.19	-40	-18.19	-62	-67.76	2.17	11.74	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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<ASDIV Antenna> <Ant. 0>

LTE Band 30

Report No. : FG011718-01D

			L	TE Band 30	/5MHz/QP	SK			
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
	4615	-60.54	-40	-20.54	-54.07	-71.76	1.46	12.68	Н
	6922	-50.84	-40	-10.84	-51.1	-61.12	1.73	12.01	Н
	9230	-58.65	-40	-18.65	-61.46	-68.26	2.16	11.77	Н
									Н
									Н
									Н
Lowest									Н
Lowest	4615	-61.23	-40	-21.23	-53.98	-72.45	1.46	12.68	V
	6922	-48.69	-40	-8.69	-48.5	-58.97	1.73	12.01	V
	9230	-57.02	-40	-17.02	-60.84	-66.63	2.16	11.77	V
									V
									V
									V
									V
	4620	-59.92	-40	-19.92	-53.47	-71.14	1.46	12.68	Н
	6930	-52.17	-40	-12.17	-52.48	-62.44	1.73	12.00	Н
	9243	-57.81	-40	-17.81	-60.59	-67.40	2.16	11.76	Н
									Н
									Н
									Н
Middle									Н
	4620	-61.23	-40	-21.23	-54.01	-72.45	1.46	12.68	V
	6930	-48.44	-40	-8.44	-48.3	-58.71	1.73	12.00	V
	9243	-57.45	-40	-17.45	-61.26	-67.04	2.16	11.76	V
									V
									V
									V

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	4625	-59.99	-40	-19.99	-53.56	-71.21	1.46	12.68	Н
	6937	-50.37	-40	-10.37	-50.72	-60.63	1.73	11.99	Н
	9250	-58.53	-40	-18.53	-61.29	-68.12	2.17	11.75	Н
									Н
									Н
									Н
Llimboot									Н
Highest	4625	-60.87	-40	-20.87	-53.67	-72.09	1.46	12.68	V
	6937	-49.01	-40	-9.01	-48.9	-59.27	1.73	11.99	V
	9250	-57.58	-40	-17.58	-61.38	-67.17	2.17	11.75	V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

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	LTE Band 30 / 10MHz / QPSK											
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)			
	4614	-61.30	-40	-21.30	-54.83	-72.52	1.46	12.68	Н			
	6918	-52.41	-40	-12.41	-52.63	-62.69	1.73	12.01	Н			
	9225	-58.93	-40	-18.93	-61.75	-68.55	2.16	11.78	Н			
									Н			
									Н			
									Н			
Middle									Н			
Middle	4614	-61.53	-40	-21.53	-54.29	-72.75	1.46	12.68	V			
	6918	-48.96	-40	-8.96	-48.74	-59.24	1.73	12.01	V			
	9225	-57.51	-40	-17.51	-61.33	-67.13	2.16	11.78	V			
									V			
									V			
									V			
									V			

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



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