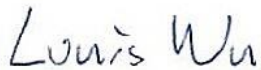


FCC RF Test Report

APPLICANT : HMD Global Oy
EQUIPMENT : Mobile phone
BRAND NAME : Nokia
MODEL NAME : TA-1222
FCC ID : 2AJOTTA-1222
STANDARD : 47 CFR Part 2, 27(D)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Dec. 31, 2019 and completely tested on Feb. 18, 2020. We, Sporton International Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown 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., the test report shall not be reproduced except in full.



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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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG9D3107D	Rev. 01	Initial issue of report	Mar. 05, 2020

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
3.5	-	Peak-to-Average Ratio	<13dB	N/A	Reporting only
3.6	§27.50 (a)(3)	EIRP Power Density	EIRP < 250mW/5MHz	PASS	-
3.7	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.8	§2.1051 §27.53 (a)(4)	Conducted Band Edge Measurement	Refer standard	PASS	-
3.9	§2.1051 §27.53 (a)(4)	Conducted Spurious Emission	< 70+10log ₁₀ (P[Watts])	PASS	-
3.10	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within the band	PASS	-
4.4	§2.1053 §27.53 (a)(4)	Radiated Spurious Emission	< 70+10log ₁₀ (P[Watts])	PASS	Under limit 6.10 dB at 4620.000 MHz

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.

1 General Description

1.1 Applicant

HMD Global Oy

Bertel Jungin aukio 9, 02600 Espoo, Finland

1.2 Manufacturer

HMD Global Oy

Bertel Jungin aukio 9, 02600 Espoo, Finland

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile phone
Brand Name	Nokia
Model Name	TA-1222
FCC ID	2AJOTTA-1222
EUT supports Radios application	GSM /WCDMA/LTE WLAN 2.4GHz 802.11b/g/n HT20 Bluetooth BR/EDR/LE FM Receiver, GNSS
IMEI Code	Conducted: 355787100004170 Radiation: 355787100003410
HW Version	V1.0
SW Version	00CUS_0_18Q
EUT Stage	Production Unit

1.4 Product Specification of Equipment Under Test

Product Feature	
Tx Frequency	LTE Band 30 : 2307.5 MHz ~ 2312.5 MHz
Rx Frequency	LTE Band 30 : 2352.5 MHz ~ 2357.5 MHz
Bandwidth	5MHz / 10MHz
Maximum Output Power to Antenna	LTE Band 30 : 22.83 dBm
Antenna Gain	LTE Band 30 : 1.10 dBi
Type of Modulation	QPSK / 16QAM / 64QAM

1.5 Modification of EUT

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

1.6 Maximum Conducted power, Frequency Tolerance and Emission Designator

LTE Band 30		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power(W)
5	2307.5 ~ 2312.5	4M49G7D	-	0.1914	4M51W7D	-	0.1644
10	2310.0	9M07G7D	0.0043	0.1919	8M99W7D	-	0.1538
LTE Band 30		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power(W)			
5	2307.5 ~ 2312.5	4M51W7D	-	0.1349			
10	2310.0	9M05W7D	-	0.1274			

1.7 Testing Site

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1190 and TW0007.

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.
	TH03-HY

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.
	03CH12-HY

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH12-HY	AUDIX	E3	6.2009-8-24

1.9 Applied Standards

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

- ♦ 47 CFR Part 2, Part 27(D)
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 Power Meas License Digital Systems D01 v03r01

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.

2 Test Configuration of Equipment Under Test

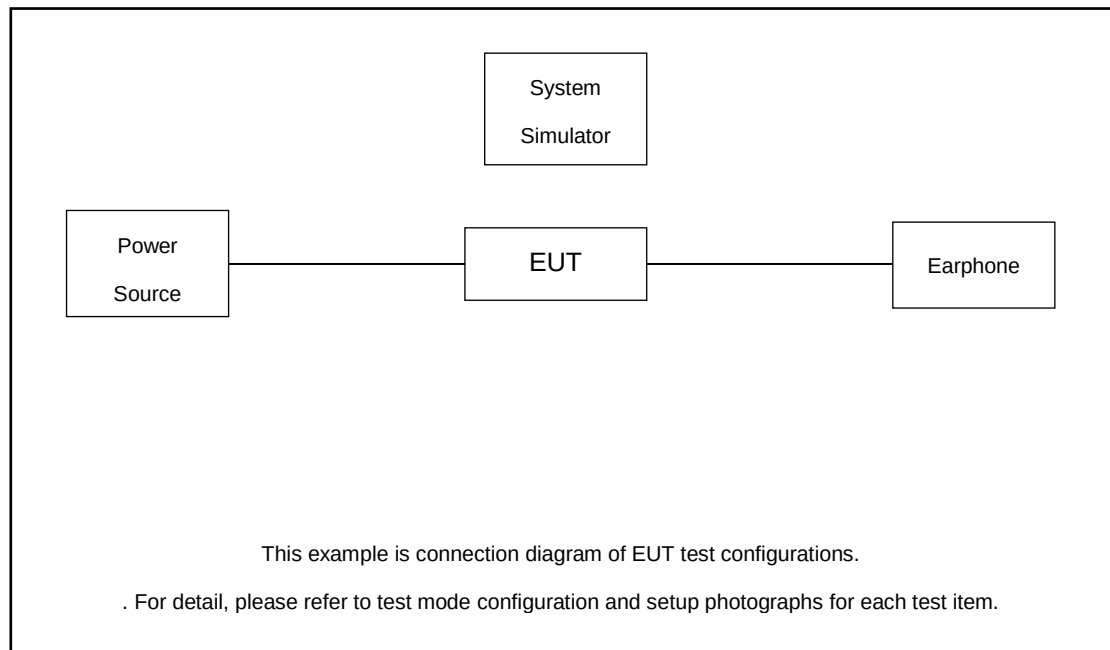
2.1 Test Mode

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.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Conducted Test Cases	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	30	-	-	V		-	-	V	V	V	V	V	V	V	V	V
		-	-		V	-	-	V	V	V	V	V	V		V	
Peak-to-Average Ratio	30	-	-		V	-	-	V	V	V	V		V		V	
E.I.R.P PSD	30	-	-	V		-	-	V	V	V	V			V	V	V
		-	-		V	-	-	V	V	V	V				V	
26dB and 99% Bandwidth	30	-	-	V		-	-	V	V	V			V	V	V	V
		-	-		V	-	-	V	V	V			V		V	
Conducted Band Edge	30	-	-	V		-	-	V	V	V	V		V	V		V
		-	-		V	-	-	V	V	V	V		V		V	
Conducted Spurious Emission	30	-	-	V		-	-	V	V	V	V			V	V	V
		-	-		V	-	-	V	V	V	V				V	
Frequency Stability	30	-	-		V	-	-	V					V		V	
Radiated Spurious Emission	30	-	-		V	-	-	V			V			V	V	V
Note	- The mark "v " means that this configuration is chosen for testing - The mark "- " means that this bandwidth is not supported. - The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.															

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	Earphone	Apple	A1285	N/A	N/A	N/A

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.

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 1.90 dB and 10.00dB attenuator.

Example :

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 1.90 + 10.00 = 11.90(\text{dB})
 \end{aligned}$$

2.5 Frequency List of Low/Middle/High Channels

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

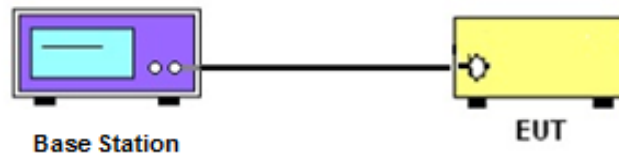
3 Conducted Test Items

3.1 Measuring Instruments

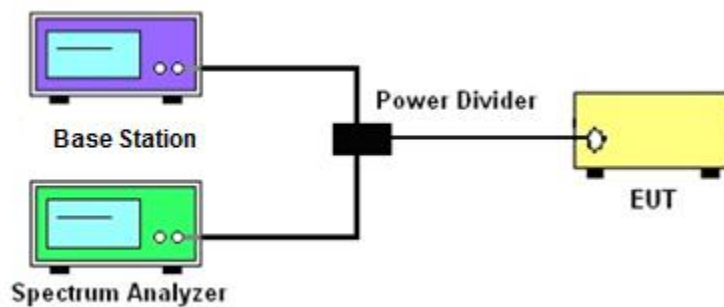
See list of measuring instruments of this test report.

3.2 Test Setup

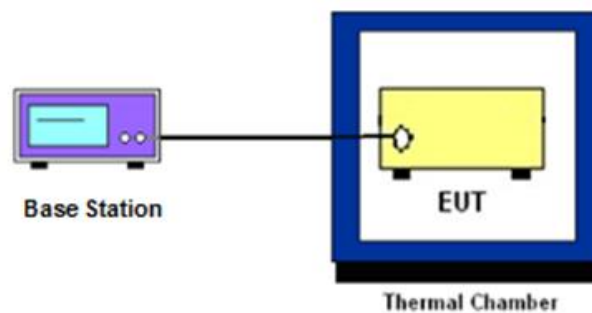
3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power Measurement

3.4.1 Description of the Conducted Output Power 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.

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

3.5 Peak-to-Average Ratio

3.5.1 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.

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

3.6 EIRP Power Density

3.6.1 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.

3.6.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.4.5
2. Set instrument center frequency to OBW center frequency.
3. Set span to at least 1.5 times the OBW.
4. Set the RBW to the specified reference bandwidth (5MHz).
5. Set VBW $\geq 3 \times$ RBW.
6. Detector = RMS (power averaging).
7. Ensure that the number of measurement points in the sweep $\geq 2 \times$ span/RBW.
8. Sweep time = auto couple.
9. Employ trace averaging (RMS) mode over a minimum of 100 traces.
10. Use the peak marker function to determine the maximum amplitude level within the reference bandwidth (PSD).

3.7 Occupied Bandwidth

3.7.1 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.

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.

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. 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.
4. 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.
5. Set the detection mode to peak, and the trace mode to max hold.
6. 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)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. 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.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.8 Conducted Band Edge Measurement

3.8.1 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;
- (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.

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used and the measured power was integrated over the full required measurement bandwidth of 1 MHz.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

Example:

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

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} = -13\text{dBm}.$$

3.9 Conducted Spurious Emission Measurement

3.9.1 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.

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

3.9.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. 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.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from $70 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [70 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [70 + 10\log(P)] \text{ (dB)}$
 $= -40\text{dBm}$

3.10 Frequency Stability Measurement

3.10.1 Description of Frequency Stability Measurement

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

3.10.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. 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.
4. 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.

3.10.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5.
2. The EUT was placed in a temperature chamber at $20\pm 5^{\circ}\text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

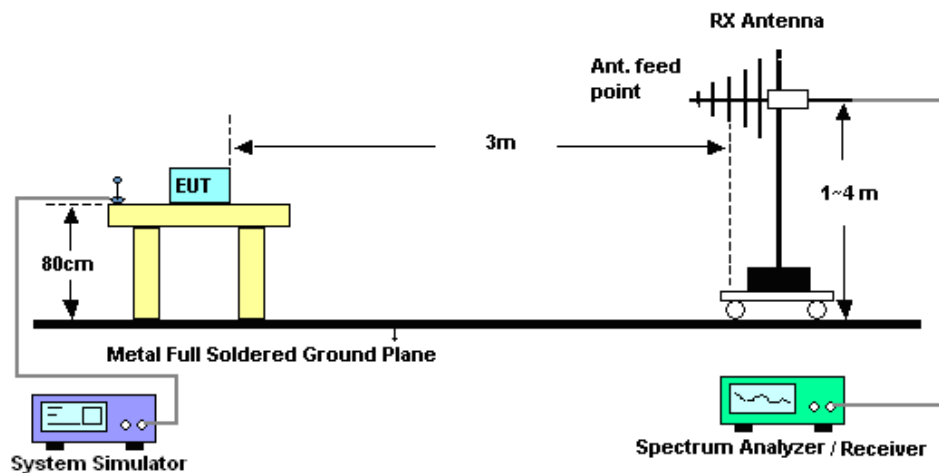
4 Radiated Test Items

4.1 Measuring Instruments

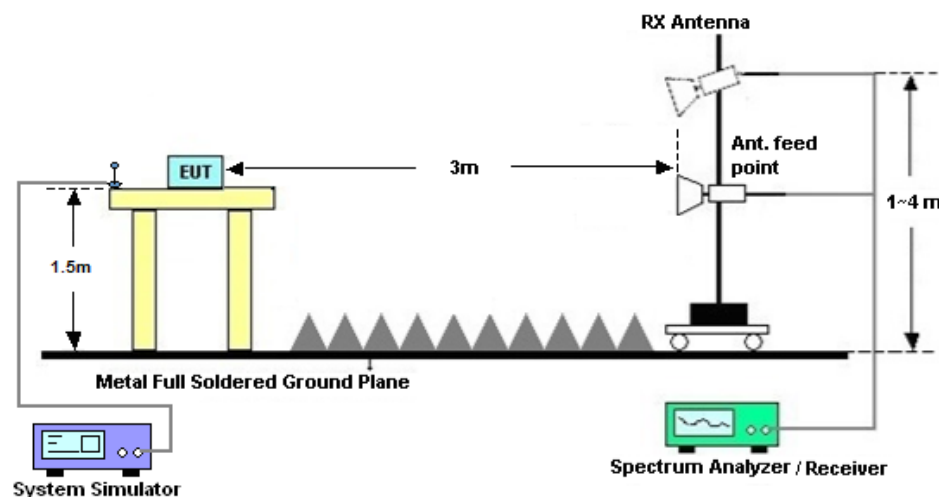
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

4.4 Radiated Spurious Emission Measurement

4.4.1 Description of Radiated Spurious Emission

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.

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

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. 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.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.

$$\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$$

$$\text{ERP (dBm)} = \text{EIRP} - 2.15$$

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

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

$$= P(W) - [70 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [70 + 10\log(P)] \text{ (dB)}$$

$$= -40\text{dBm}.$$

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Base Station(Measure)	Anritsu	MT8821C	6201664755	GSM / GPRS / WCDMA / LTE FDD/TDD with 44)	Mar. 03, 2019	Feb. 08, 2020 ~ Feb. 18, 2020	Mar. 02, 2020	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 15, 2019	Feb. 08, 2020 ~ Feb. 18, 2020	Nov. 14, 2020	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40°C~90°C	Sep. 02, 2019	Feb. 08, 2020 ~ Feb. 18, 2020	Sep. 01, 2020	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890094	1V~20V 0.5A~5A	Oct. 09, 2019	Feb. 08, 2020 ~ Feb. 18, 2020	Oct. 08, 2020	Conducted (TH05-HY)
Coupler	Warison	20dB 25W SMA Directional	#A	1-18GHz	Jan. 13, 2020	Feb. 08, 2020 ~ Feb. 18, 2020	Jan. 12, 2021	Conducted (TH05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Dec. 26, 2019	Feb. 05, 2019~ Feb. 12, 2019	Dec. 25, 2020	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N 1D01N-06	37059 & 01	30MHz~1GHz	Otc. 12, 2019	Feb. 05, 2019~ Feb. 12, 2019	Otc 11, 2020	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1328	1GHz ~ 18GHz	Nov. 14, 2019	Feb. 05, 2019~ Feb. 12, 2019	Nov. 13, 2020	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1GHz ~ 18GHz	Sep. 19, 2019	Feb. 05, 2019~ Feb. 12, 2019	Sep. 18, 2020	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz ~ 40GHz	Dec. 10, 2019	Feb. 05, 2019~ Feb. 12, 2019	Dec. 09, 2020	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 25, 2019	Feb. 05, 2019~ Feb. 12, 2019	Mar. 24, 2020	Radiation (03CH12-HY)
Preamplifier	Jet-Power	JPA0010180 0-30-10P	1601180002	1GHz~18GHz	Aug. 01, 2019	Feb. 05, 2019~ Feb. 12, 2019	Jul. 01, 2020	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 13, 2019	Feb. 05, 2019~ Feb. 12, 2019	Dec. 12, 2020	Radiation (03CH12-HY)
Preamplifier	Keysight	83017A	MY53270148	1GHz~26.5GHz	Dec. 20, 2019	Feb. 05, 2019~ Feb. 12, 2019	Dec. 19, 2020	Radiation (03CH12-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101408	10Hz~40GHz	Aug. 13, 2019	Feb. 05, 2019~ Feb. 12, 2019	Aug. 12, 2020	Radiation (03CH12-HY)
Signal Generator	Rohde & Schwarz	SMF100A	101107	100kHz~40GHz	Aug. 27, 2019	Feb. 05, 2019~ Feb. 12, 2019	Aug. 26, 2020	Radiation (03CH12-HY)
Hygrometer	TECEPEL	DTM-303B	TP161243	N/A	May. 11, 2019	Feb. 05, 2019~ Feb. 12, 2019	May. 10, 2020	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30M-18G	Mar. 13, 2019	Feb. 05, 2019~ Feb. 12, 2019	Mar. 12, 2020	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Feb. 26, 2019	Feb. 05, 2019~ Feb. 12, 2019	Feb. 25, 2020	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30M~40GHz	Feb. 26, 2019	Feb. 05, 2019~ Feb. 12, 2019	Feb. 25, 2020	Radiation (03CH12-HY)



Base Station	Anritsu	MT8821C	6201432816	GSM / GPRS / W CDMA / LTE FDD /TDD with 44) /LT	May 05, 2019	Feb. 05, 2019~ Feb. 12, 2019	May 04, 2020	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Feb. 05, 2019~ Feb. 12, 2019	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-450 0-B	N/A	1m~4m	N/A	Feb. 05, 2019~ Feb. 12, 2019	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Feb. 05, 2019~ Feb. 12, 2019	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8 -24	RK-000989	N/A	N/A	Feb. 05, 2019~ Feb. 12, 2019	N/A	Radiation (03CH12-HY)

NCR: No Calibration Required

6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.62dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.06dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

LTE Band 30 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.46	22.55	22.46
5	1	12		22.79	22.82	22.79
5	1	24		22.43	22.54	22.54
5	12	0		21.68	21.62	21.62
5	12	7		21.77	21.68	21.71
5	12	13		21.71	21.78	21.68
5	25	0		21.68	21.67	21.64
5	1	0	16-QAM	21.69	21.82	21.69
5	1	12		22.02	22.15	22.16
5	1	24		21.71	21.92	21.66
5	12	0		20.70	20.71	20.58
5	12	7		20.65	20.79	20.64
5	12	13		20.76	20.77	20.62
5	25	0		20.74	20.74	20.69
5	1	0	64QAM	20.90	20.83	20.83
5	1	12		21.30	21.18	21.21
5	1	24		20.85	20.83	20.96
5	12	0		19.85	19.79	19.84
5	12	7		19.93	19.93	19.87
5	12	13		19.94	19.97	19.78
5	25	0		19.85	19.82	19.74



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10	1	0	QPSK	-	22.51	-
10	1	25			22.83	
10	1	49			22.61	
10	25	0			21.64	
10	25	12			21.66	
10	25	25			21.70	
10	50	0			21.67	
10	1	0	16-QAM		21.73	
10	1	25			21.87	
10	1	49			21.65	
10	25	0			20.77	
10	25	12			20.81	
10	25	25			20.72	
10	50	0			20.70	
10	1	0	64QAM		21.01	
10	1	25			21.05	
10	1	49			20.61	
10	25	0			20.00	
10	25	12			19.93	
10	25	25			19.94	
10	50	0			19.79	



LTE Band 30

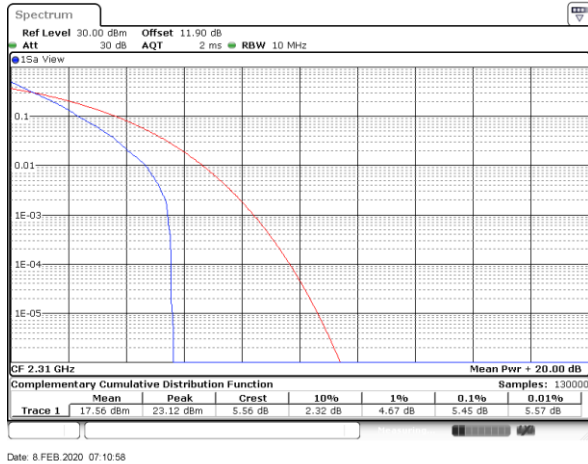
Peak-to-Average Ratio

Mode	LTE Band 30 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	5.45	5.48	6.41	6.14	
Highest CH	-	-	-	-	
Mode	LTE Band 30 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	6.49	6.14	-	-	
Highest CH	-	-	-	-	

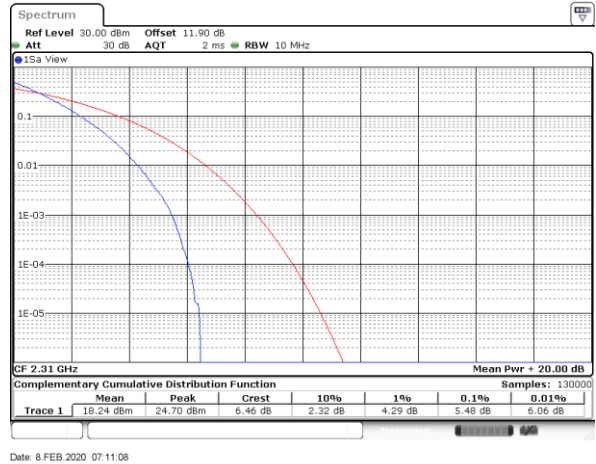


LTE Band 30 / 10MHz / QPSK

Middle Channel / 1RB

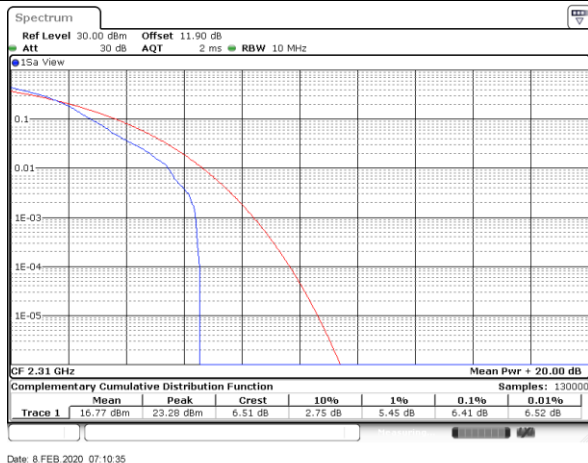


Middle Channel / Full RB

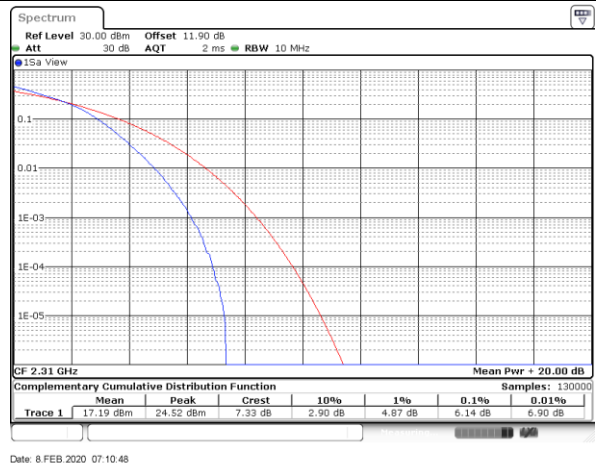


LTE Band 30 / 10MHz / 16QAM

Middle Channel / 1RB



Middle Channel / Full RB



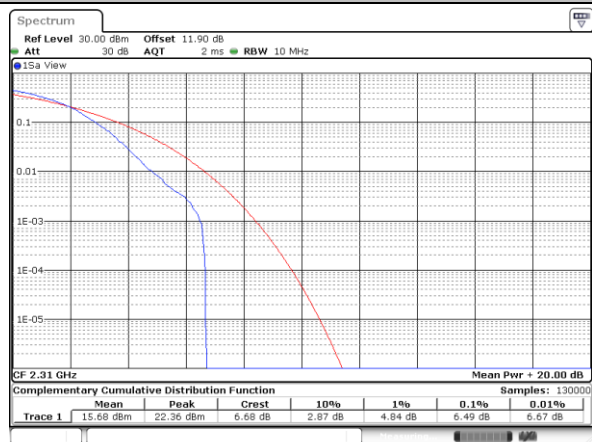


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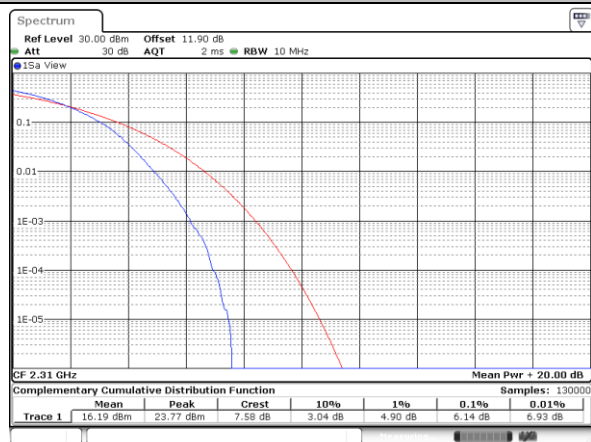
LTE Band 30 / 10MHz / 64QAM

Middle Channel / 1RB



Date: 8 FEB 2020 07:10:08

Middle Channel / Full RB



Date: 8 FEB 2020 07:10:23



EIRP Power Density

Mode	LTE Band 30 : Conducted Power Density (dBm/5MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	20.25	19.59	-	-	-	-	-	-
Middle CH	-	-	-	-	20.44	19.77	20.20	19.45	-	-	-	-
Highest CH	-	-	-	-	20.41	19.56	-	-	-	-	-	-

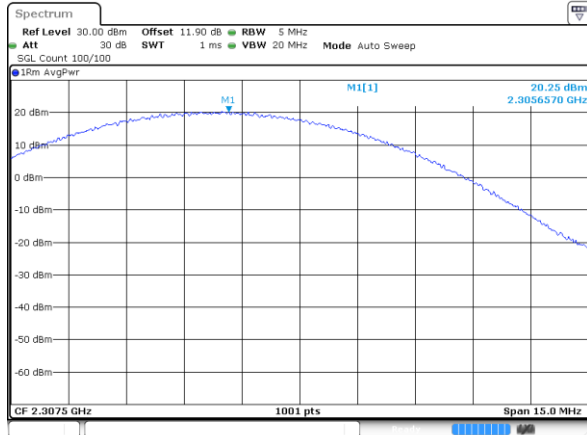
Mode	LTE Band 30 : Conducted Power Density (dBm/5MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	18.42	-	-	-	-	-	-	-
Middle CH	-	-	-	-	18.71	-	18.68	-	-	-	-	-
Highest CH	-	-	-	-	18.69	-	-	-	-	-	-	-

Mode	LTE Band 30 : EIRP Power Density (dBm/5MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	21.35	20.69	-	-	-	-	-	-
Middle CH	-	-	-	-	21.54	20.87	21.30	20.55	-	-	-	-
Highest CH	-	-	-	-	21.51	20.66	-	-	-	-	-	-

Mode	LTE Band 30 : EIRP Power Density (dBm/5MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	19.52	-	-	-	-	-	-	-
Middle CH	-	-	-	-	19.91	-	19.78	-	-	-	-	-
Highest CH	-	-	-	-	19.79	-	-	-	-	-	-	-
Antenna Gain	1.1 dBi											
Limit	250mW / 5MHz = 24dBm / 5MHz											
Result	Pass											

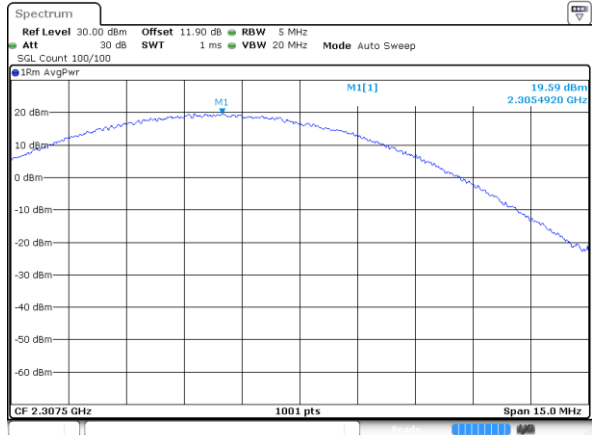
LTE Band 30 / 5MHz

Lowest Channel / 5MHz / 1RB0 / QPSK



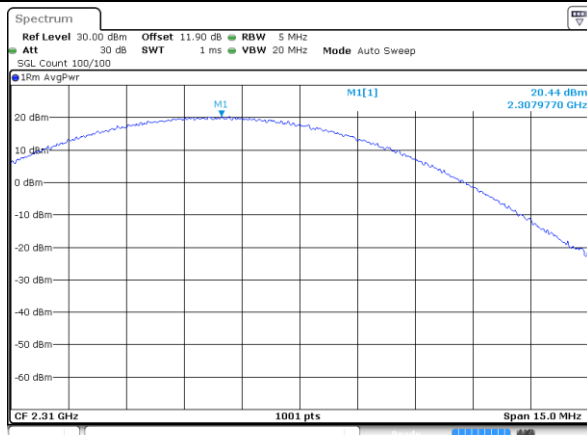
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Lowest Channel / 5MHz / 1RB0 / 16QAM



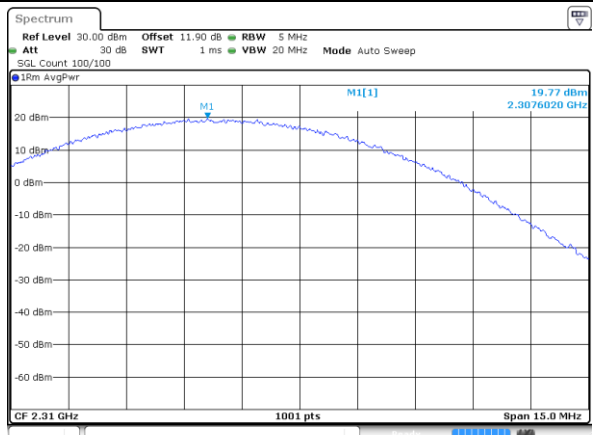
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Middle Channel / 5MHz / 1RB0 / QPSK



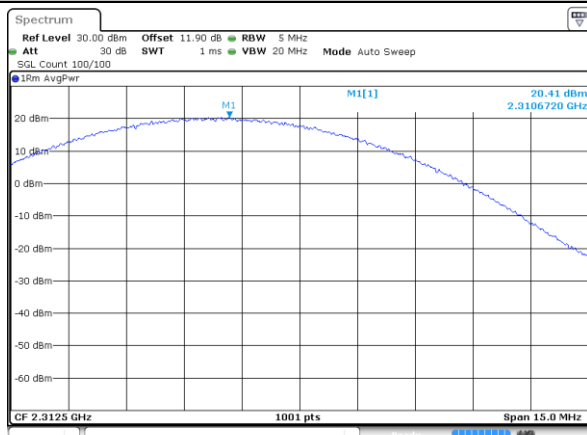
Date: 8 FEB 2020 07:13:16

Middle Channel / 5MHz / 1RB0 / 16QAM



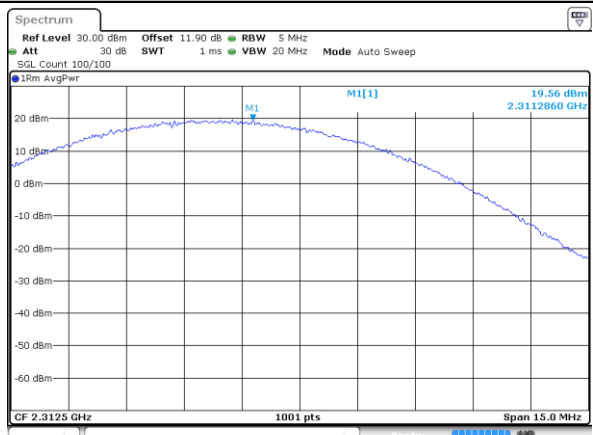
Date: 8 FEB 2020 07:13:34

Highest Channel / 5MHz / 1RB0 / QPSK



Date: 8 FEB 2020 07:14:11

Highest Channel / 5MHz / 1RB0 / 16QAM



Date: 8 FEB 2020 07:14:29

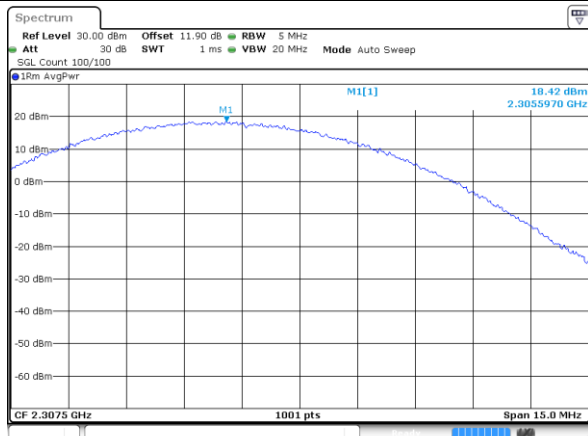


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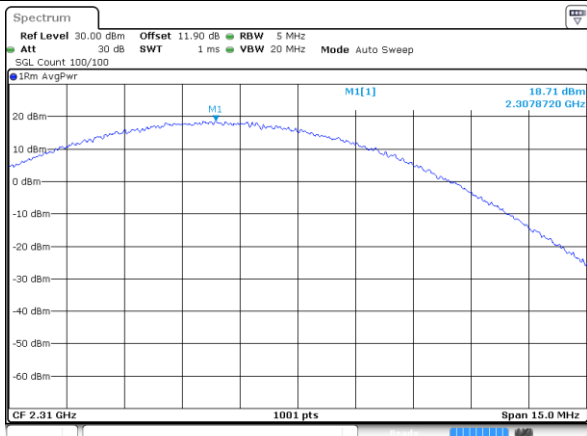
LTE Band 30 / 5MHz

Lowest Channel / 5MHz / 1RB0 / 64QAM



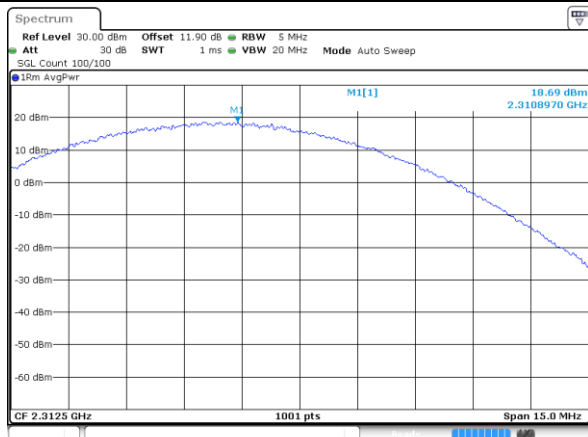
Date: 8 FEB 2020 07:12:58

Middle Channel / 5MHz / 1RB0 / 64QAM



Date: 8 FEB 2020 07:13:52

Highest Channel / 5MHz / 1RB0 / 64QAM



Date: 8 FEB 2020 07:14:48

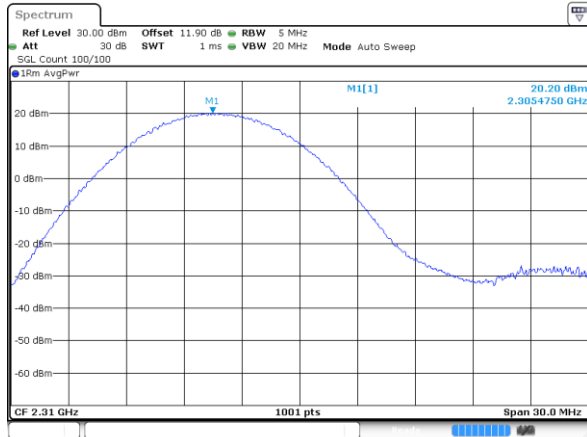


FCC RF Test Report

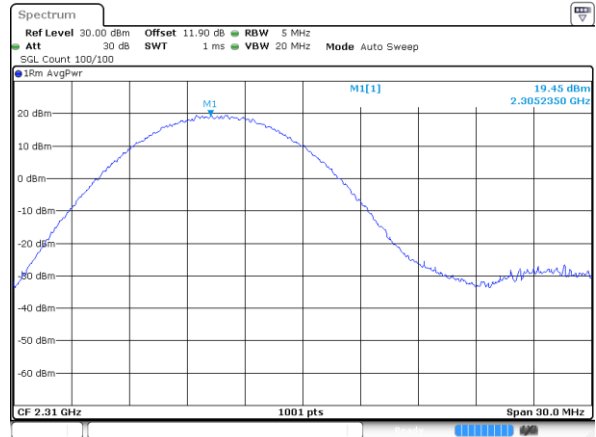
Report No. : FG9D3107D

LTE Band 30 / 10MHz

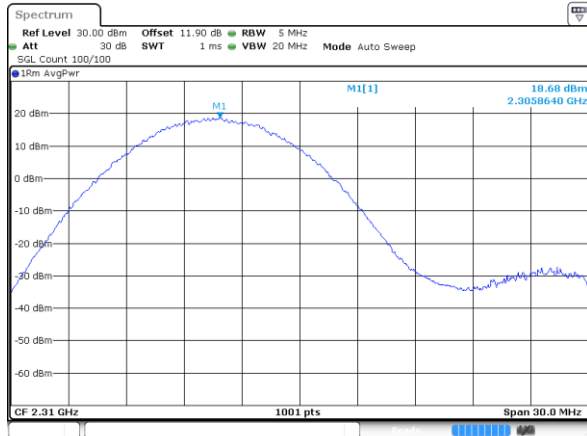
Lowest Channel / 10MHz / 1RB0 / QPSK



Lowest Channel / 10MHz / 1RB0 / 16QAM



Lowest Channel / 10MHz / 1RB0 / 64QAM





26dB Bandwidth

Mode	LTE Band 30 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.87	4.77	-	-	-	-	-	-
Middle CH	-	-	-	-	4.90	4.84	9.77	9.85	-	-	-	-
Highest CH	-	-	-	-	4.82	4.82	-	-	-	-	-	-
Mode	LTE Band 30 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.89	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.81	-	9.73	-	-	-	-	-
Highest CH	-	-	-	-	4.87	-	-	-	-	-	-	-

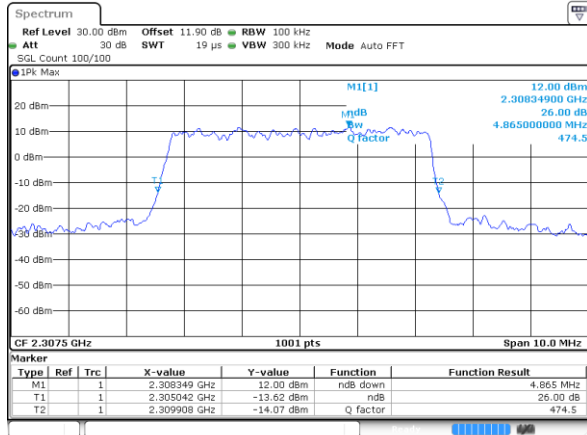


FCC RF Test Report

Report No. : FG9D3107D

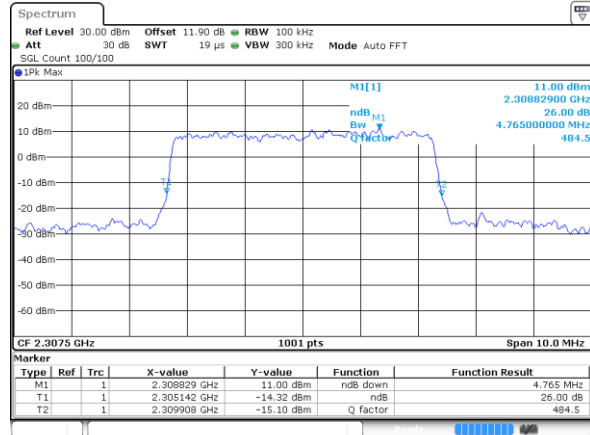
LTE Band 30

Lowest Channel / 5MHz / QPSK



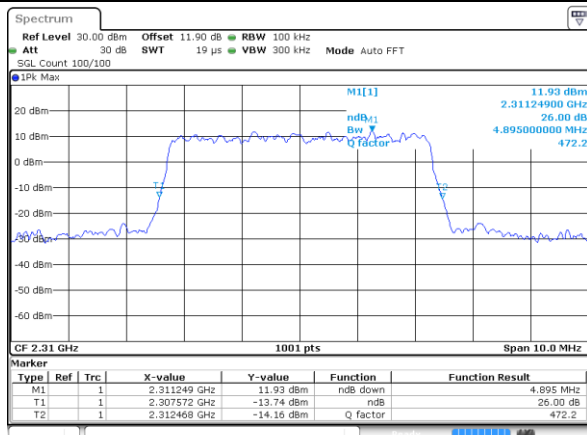
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Lowest Channel / 5MHz / 16QAM



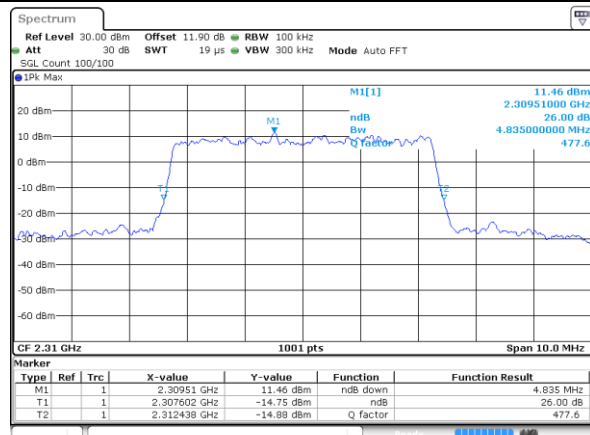
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Middle Channel / 5MHz / QPSK



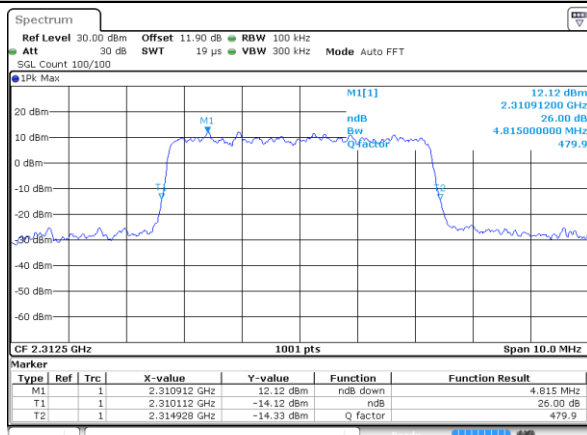
Date: 8 FEB 2020 07:06:00

Middle Channel / 5MHz / 16QAM



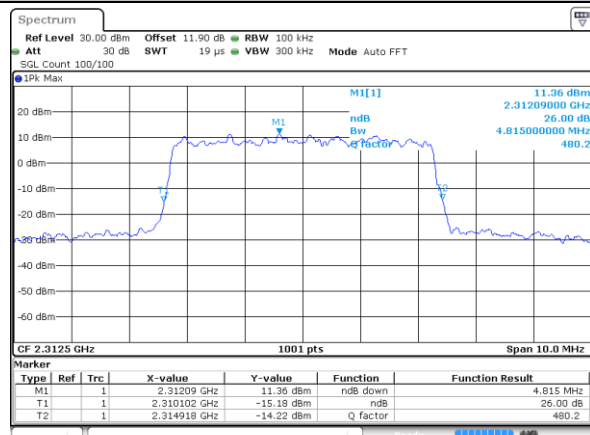
Date: 8 FEB 2020 07:06:12

Highest Channel / 5MHz / QPSK



Date: 8 FEB 2020 07:06:48

Highest Channel / 5MHz / 16QAM



Date: 8 FEB 2020 07:07:00

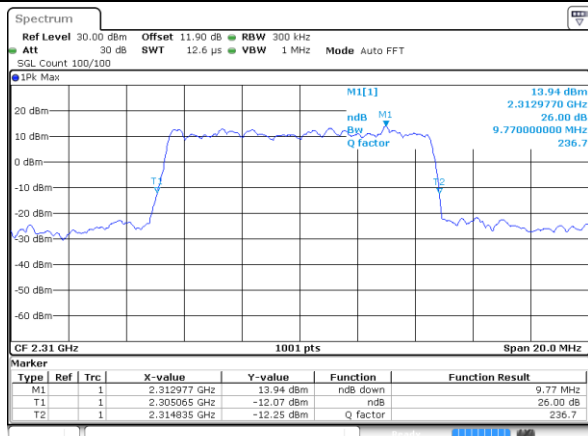


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Report No. : FG9D3107D

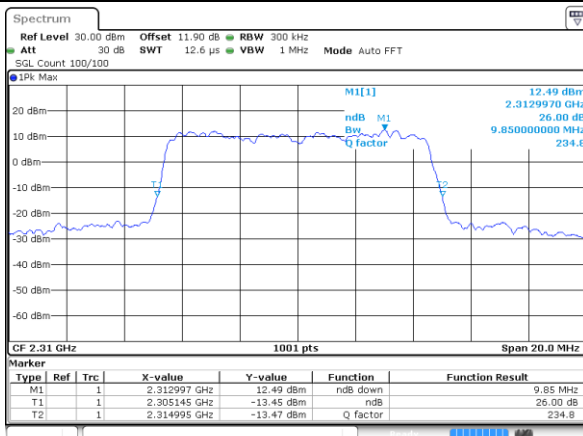
LTE Band 30

Middle Channel / 10MHz / QPSK



Date: 8 FEB 2020 07:07:35

Middle Channel / 10MHz / 16QAM



Date: 8 FEB 2020 07:07:47

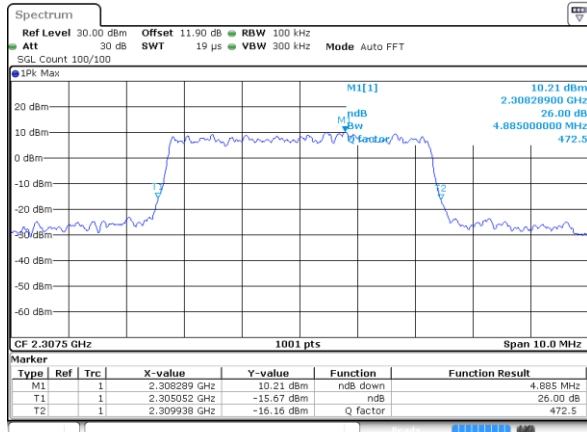


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Report No. : FG9D3107D

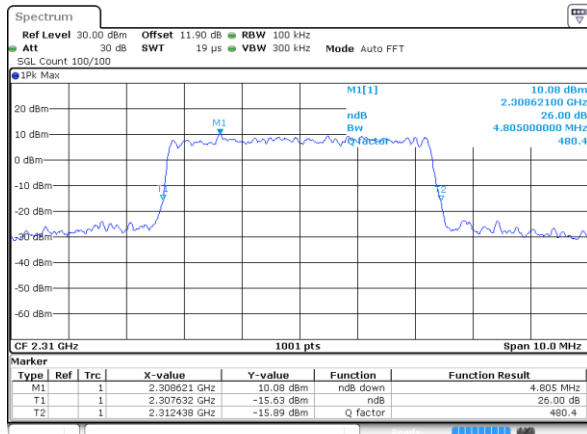
LTE Band 30

Lowest Channel / 5MHz / 64QAM



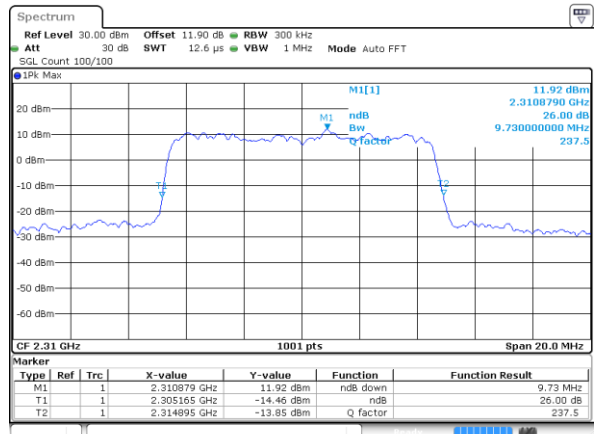
Date: 8 FEB 2020 07:08:11

Middle Channel / 5MHz / 64QAM



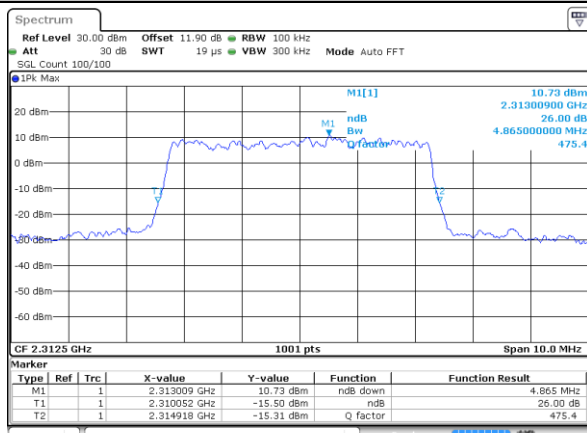
Date: 8 FEB 2020 07:08:34

Middle Channel / 10MHz / 64QAM



Date: 8 FEB 2020 07:09:21

Highest Channel / 5MHz / 64QAM



Date: 8 FEB 2020 07:08:57

**Occupied Bandwidth**

Mode	LTE Band 30 : 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	-	-	-	-	4.49	4.51	-	-	-	-	-	-
Middle CH	-	-	-	-	4.48	4.48	9.07	8.99	-	-	-	-
Highest CH	-	-	-	-	4.49	4.51	-	-	-	-	-	-
Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.49	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.49	-	9.05	-	-	-	-	-
Highest CH	-	-	-	-	4.51	-	-	-	-	-	-	-

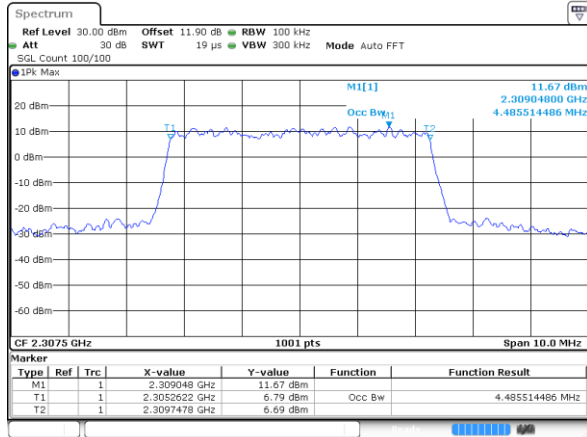


FCC RF Test Report

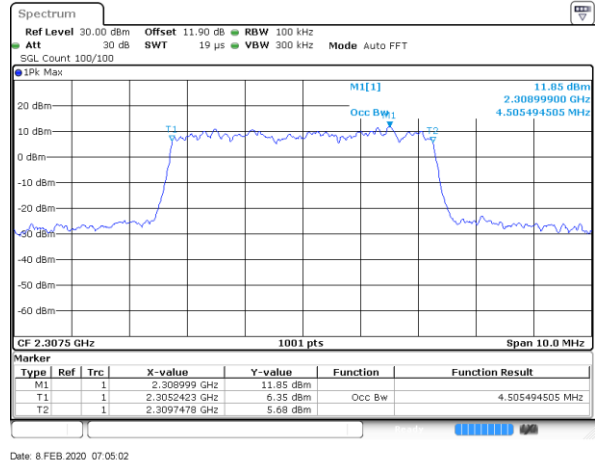
Report No. : FG9D3107D

LTE Band 30

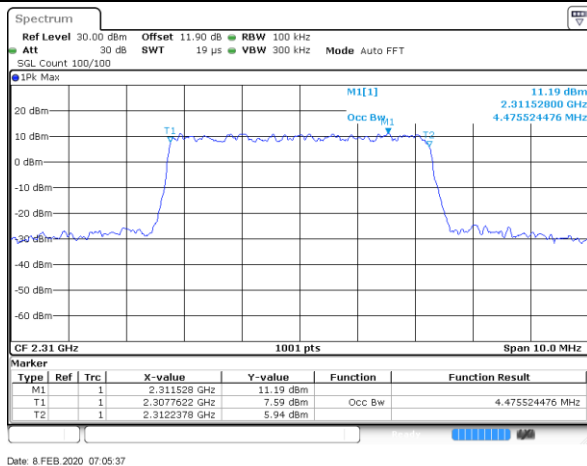
Lowest Channel / 5MHz / QPSK



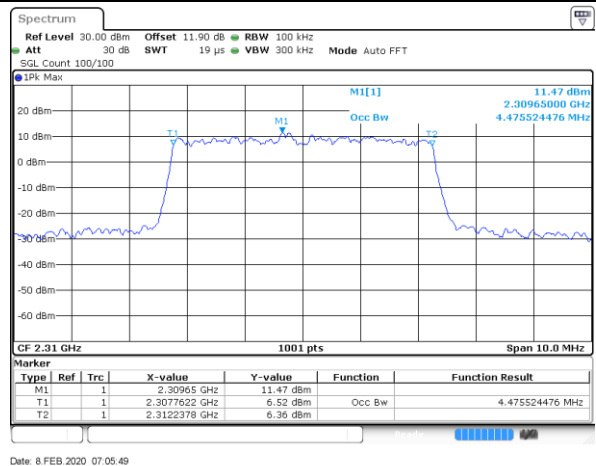
Lowest Channel / 5MHz / 16QAM



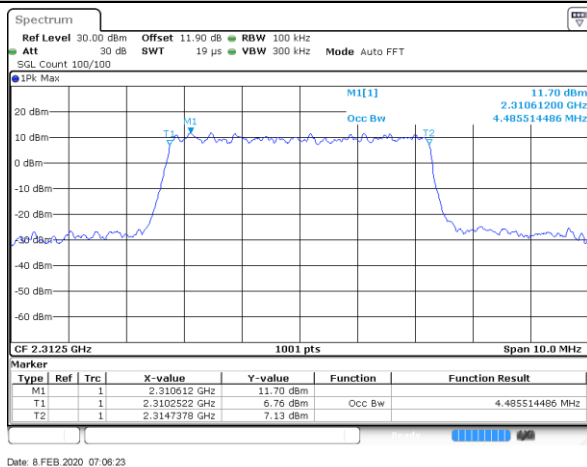
Middle Channel / 5MHz / QPSK



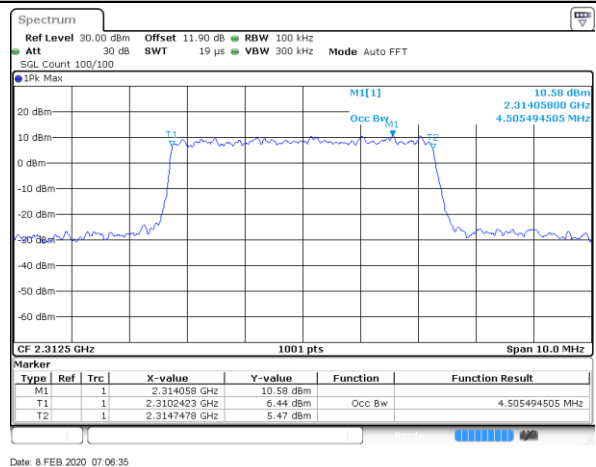
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



Highest Channel / 5MHz / 16QAM



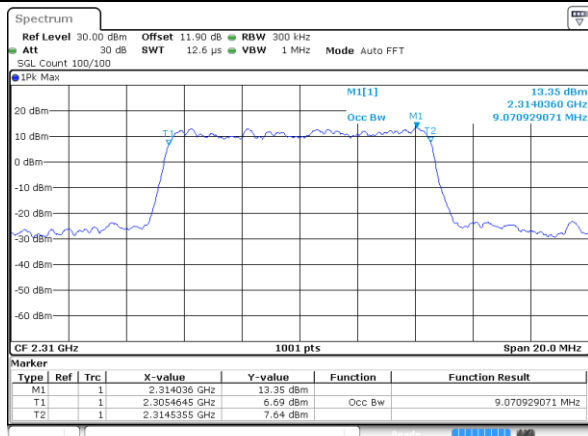


FCC RF Test Report

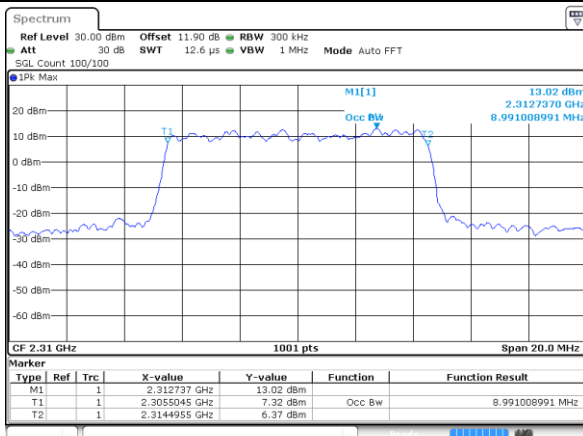
Report No. : FG9D3107D

LTE Band 30

Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM



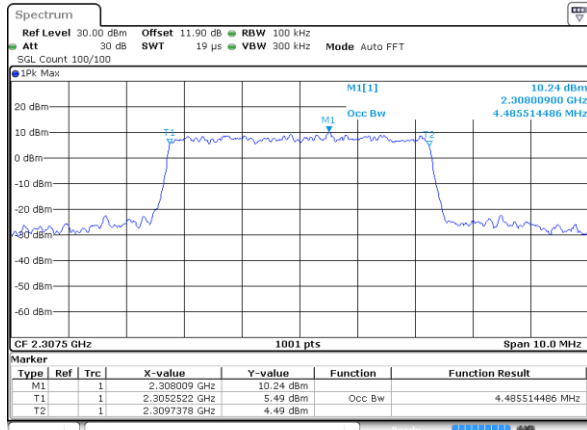


FCC RF Test Report

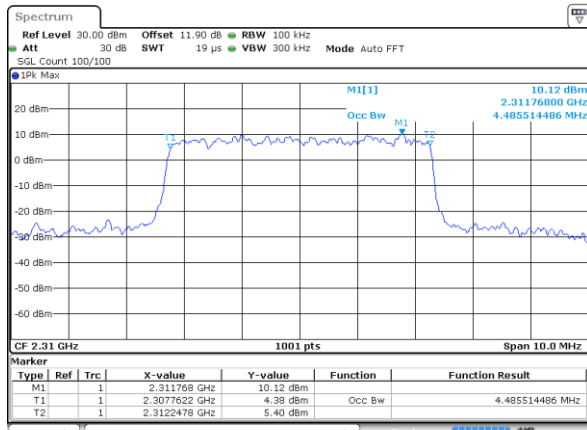
Report No. : FG9D3107D

LTE Band 30

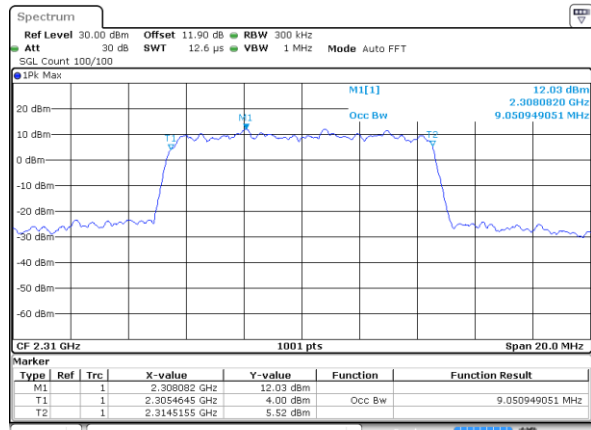
Lowest Channel / 5MHz / 64QAM



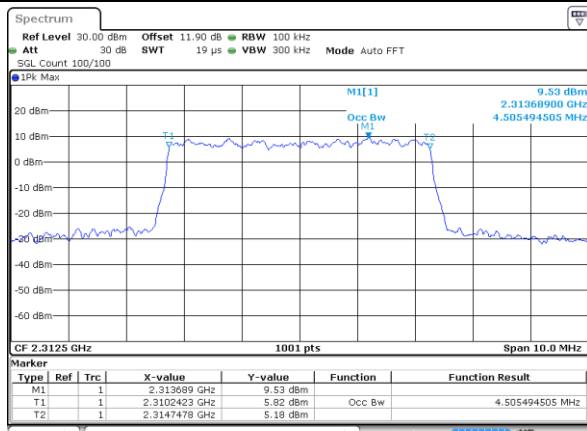
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM





Conducted Band Edge

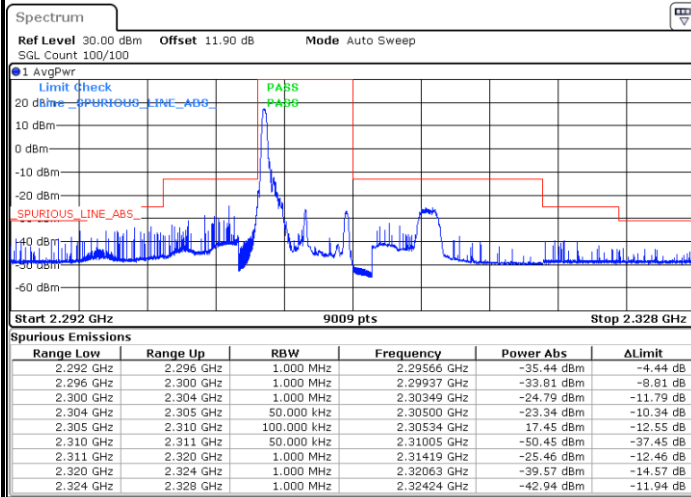


FCC RF Test Report

Report No. : FG9D3107D

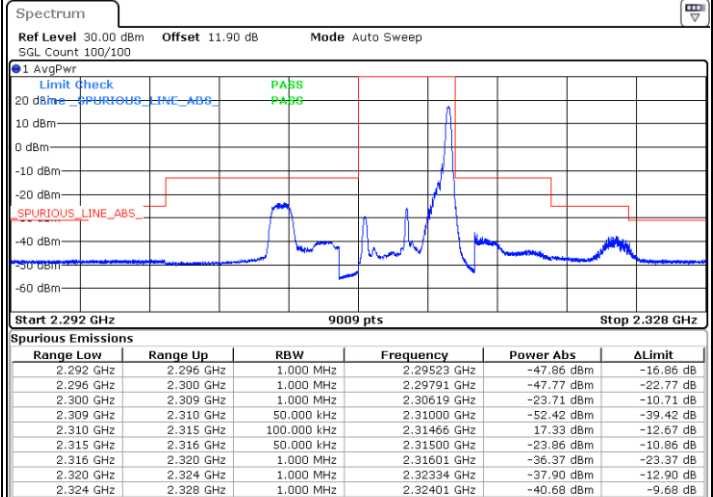
LTE Band 30 / 5MHz / QPSK

Lowest Band Edge / 1 RB



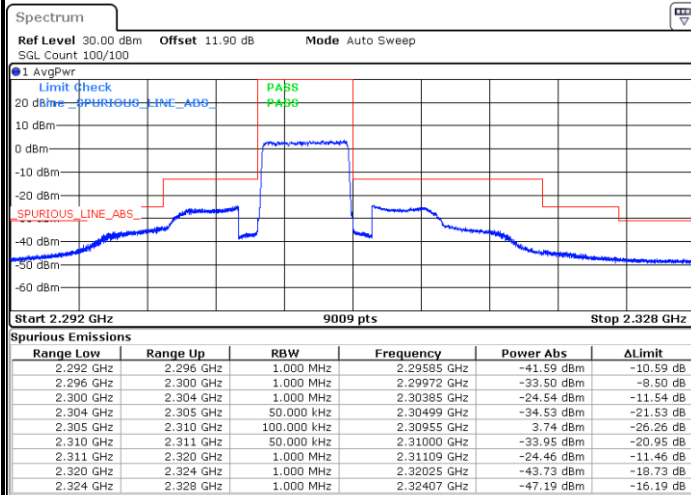
Date: 8 FEB 2020 06:41:16

Highest Band Edge / 1 RB



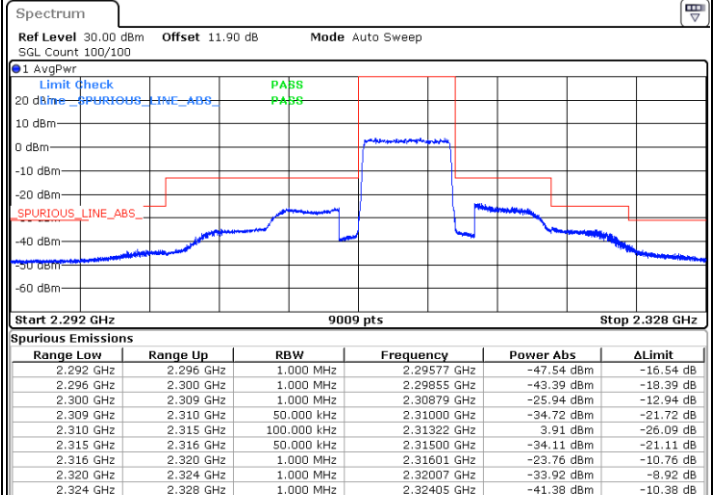
Date: 8 FEB 2020 06:45:24

Lowest Band Edge / Full RB



Date: 8 FEB 2020 06:43:20

Highest Band Edge / Full RB



Date: 8 FEB 2020 06:47:28

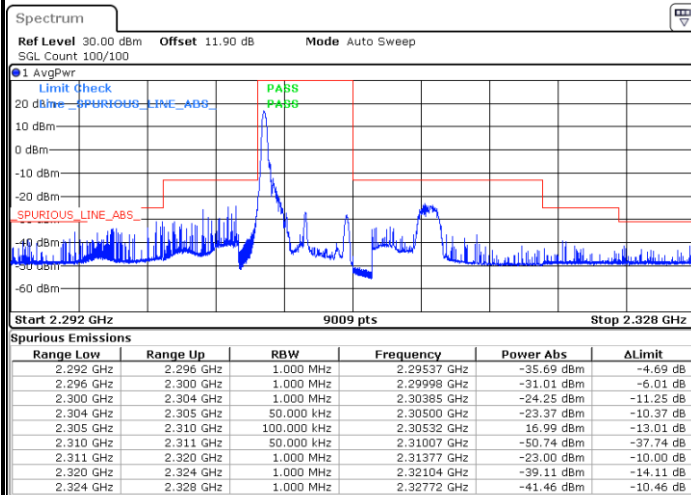


FCC RF Test Report

Report No. : FG9D3107D

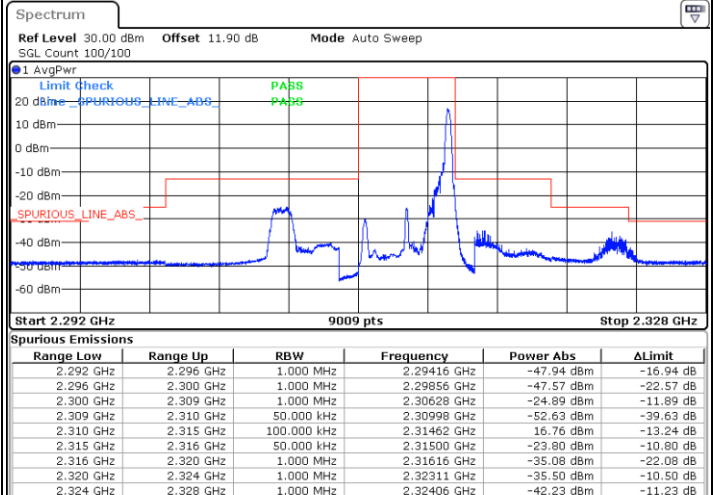
LTE Band 30 / 5MHz / 16QAM

Lowest Band Edge / 1RB



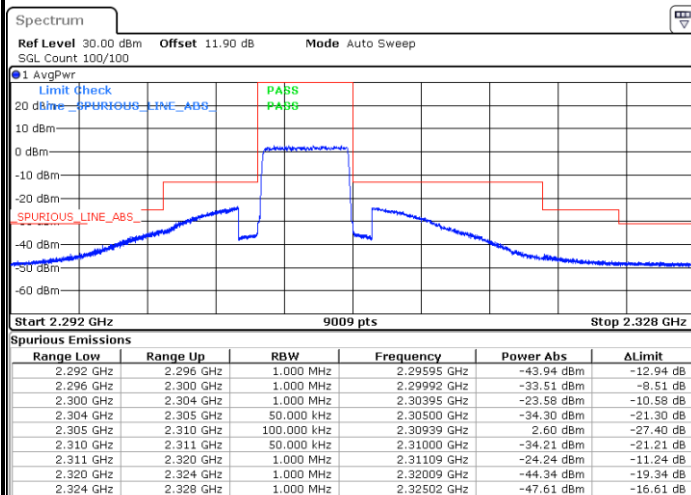
Date: 8 FEB 2020 06:41:57

Highest Band Edge / 1 RB



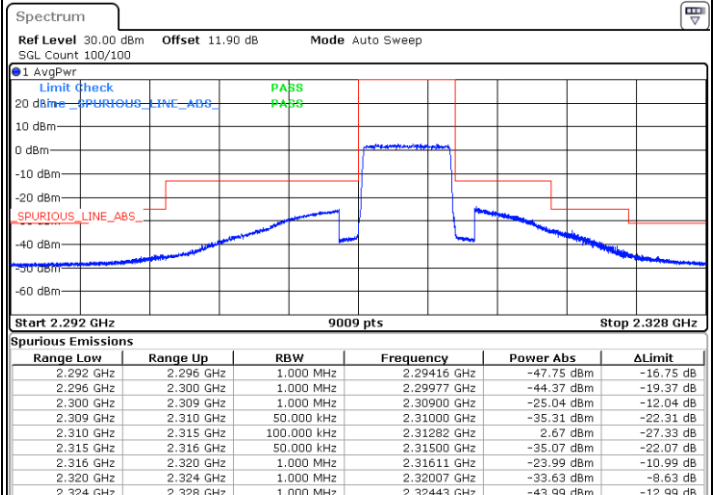
Date: 8 FEB 2020 06:46:05

Lowest Band Edge / Full RB



Date: 8 FEB 2020 06:44:01

Highest Band Edge / Full RB



Date: 8 FEB 2020 06:48:09

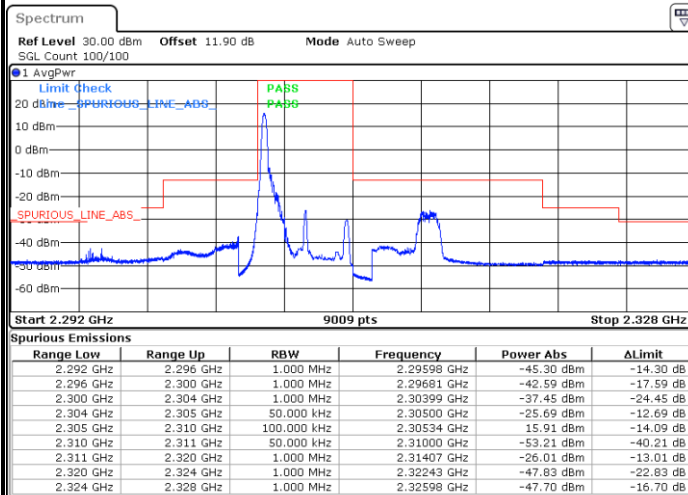


FCC RF Test Report

Report No. : FG9D3107D

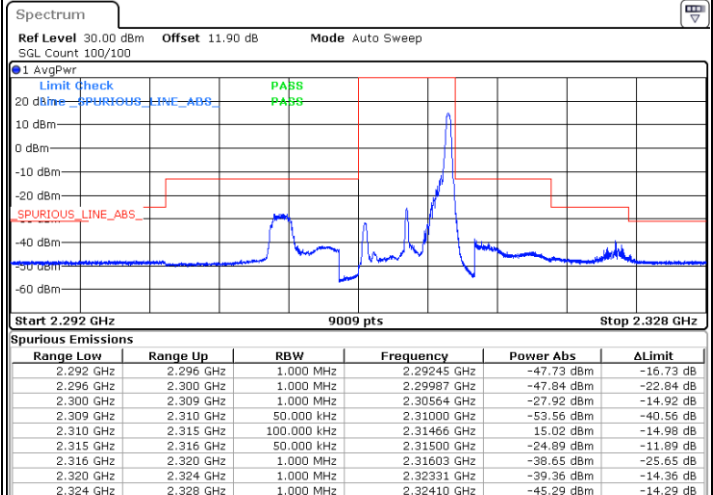
LTE Band 30 / 5MHz / 64QAM

Lowest Band Edge / 1RB



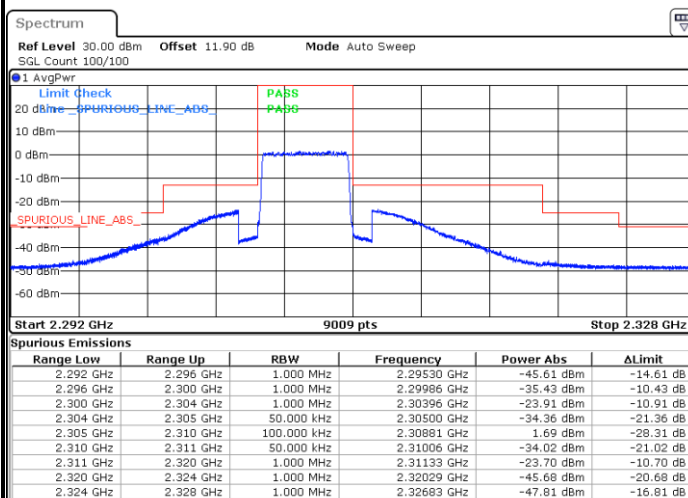
Date: 8 FEB 2020 06:42:39

Highest Band Edge / 1 RB



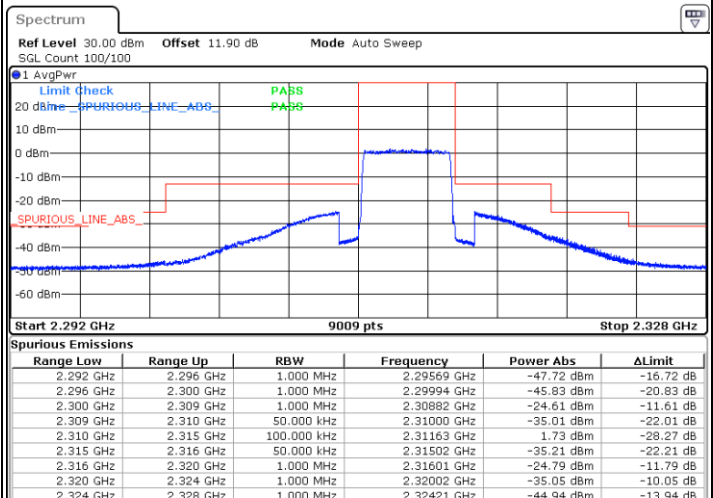
Date: 8 FEB 2020 06:46:47

Lowest Band Edge / Full RB



Date: 8 FEB 2020 06:44:43

Highest Band Edge / Full RB



Date: 8 FEB 2020 06:48:50

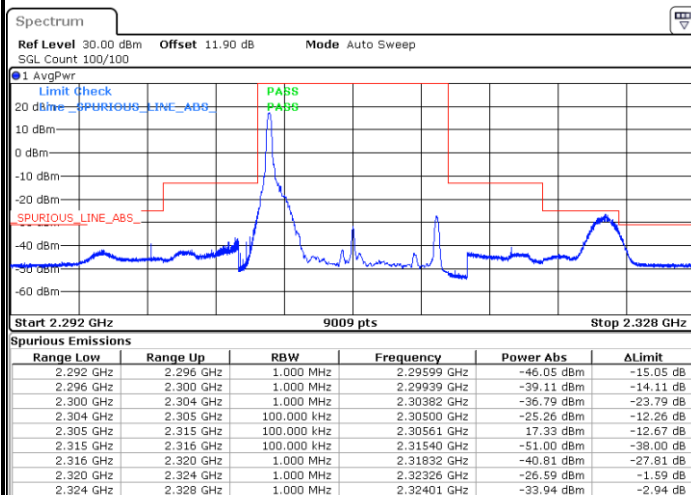


FCC RF Test Report

Report No. : FG9D3107D

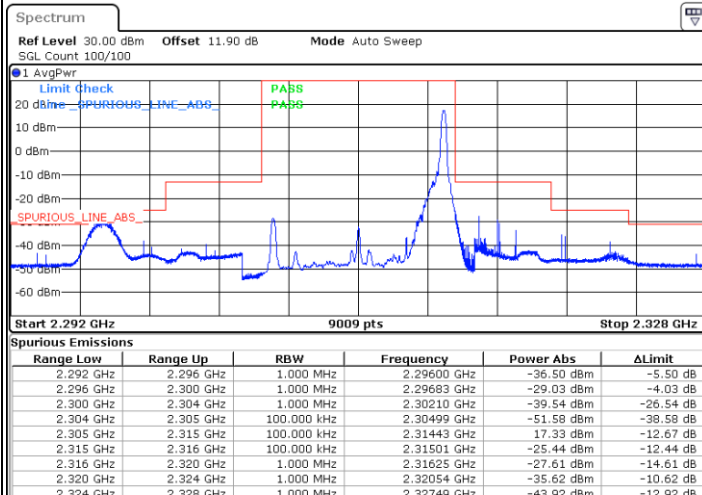
LTE Band 30 / 10MHz / QPSK

Lowest Band Edge / 1 RB



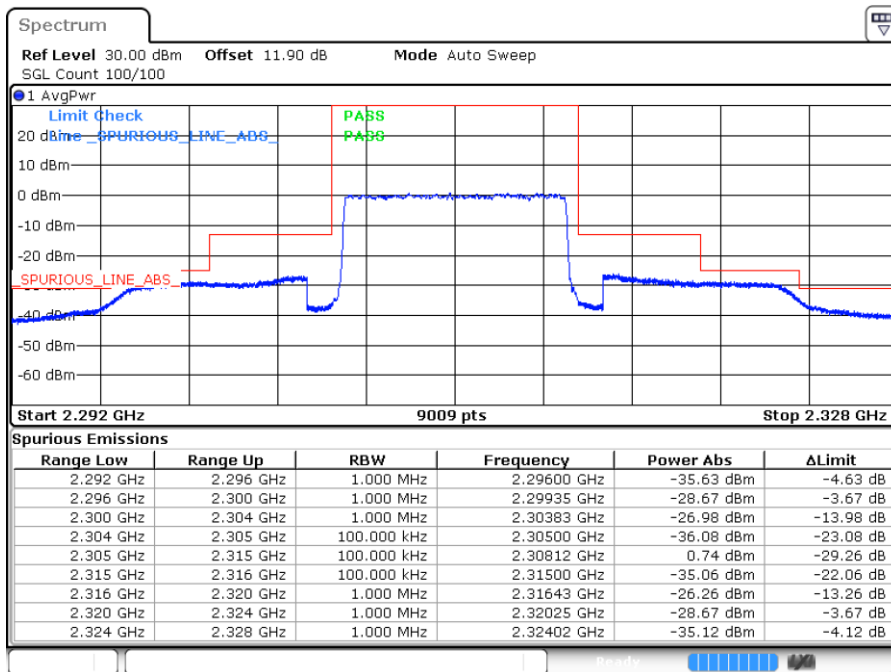
Date: 8 FEB 2020 06:49:32

Highest Band Edge / 1 RB



Date: 8 FEB 2020 06:51:34

Band Edge / Full RB



Date: 8 FEB 2020 06:53:37

SPORTON INTERNATIONAL INC.

TEL : 886-3-327-3456

FAX : 886-3-328-4978

FCC ID : 2AJOTTA-1222

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Report Version : Rev. 01

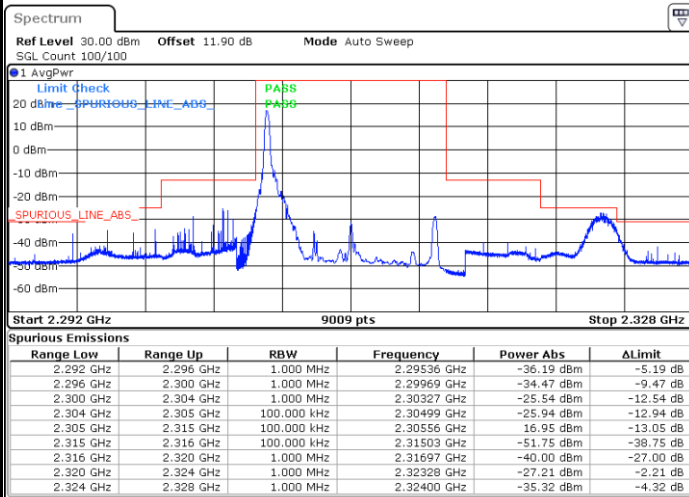


FCC RF Test Report

Report No. : FG9D3107D

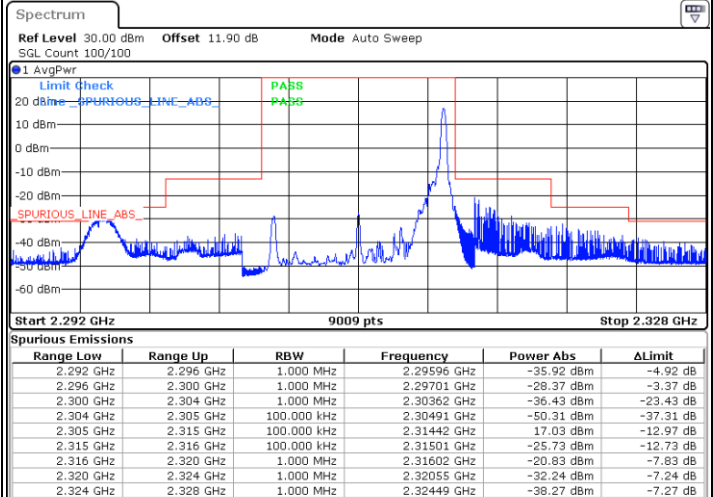
LTE Band 30 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



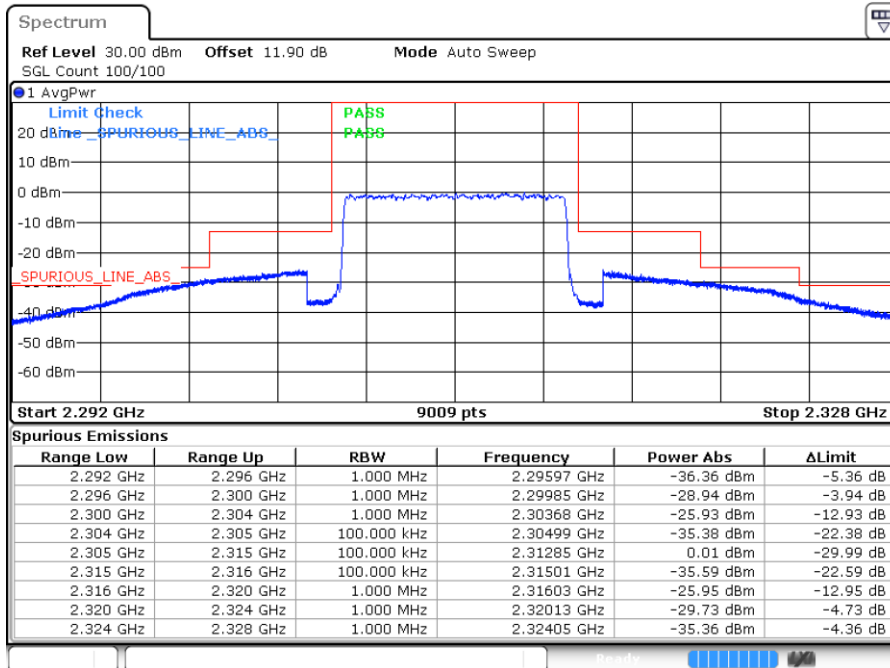
Date: 8 FEB 2020 06:50:13

Highest Band Edge / 1 RB



Date: 8 FEB 2020 06:52:15

Band Edge / Full RB



Date: 8 FEB 2020 06:54:18

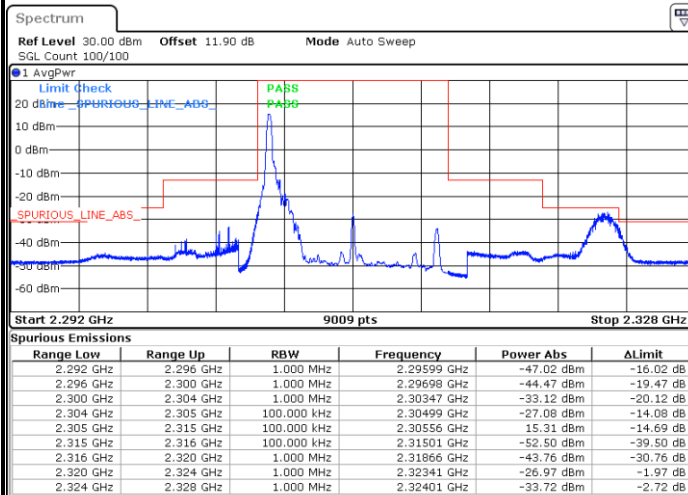


FCC RF Test Report

Report No. : FG9D3107D

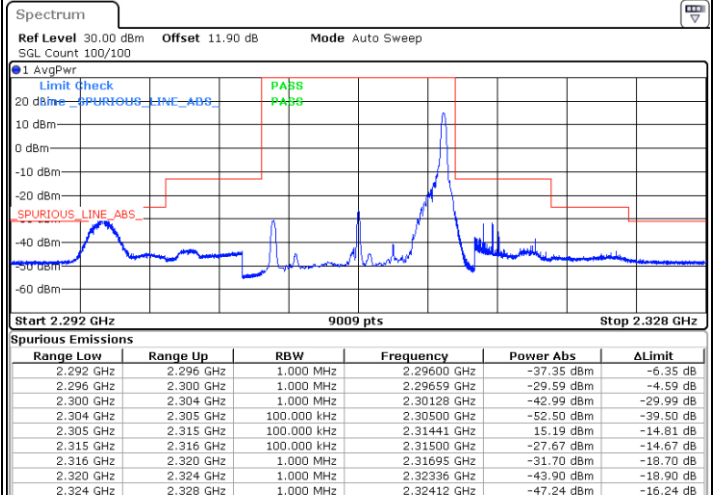
LTE Band 30 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



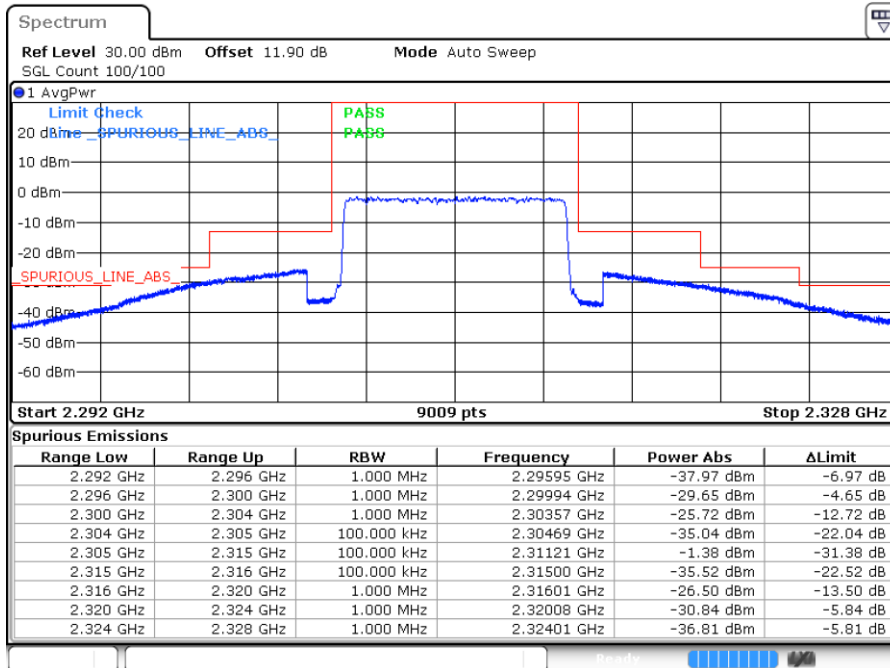
Date: 8 FEB 2020 06:50:54

Highest Band Edge / 1 RB



Date: 8 FEB 2020 06:52:56

Band Edge / Full RB



Date: 8 FEB 2020 06:54:58



Conducted Spurious Emission

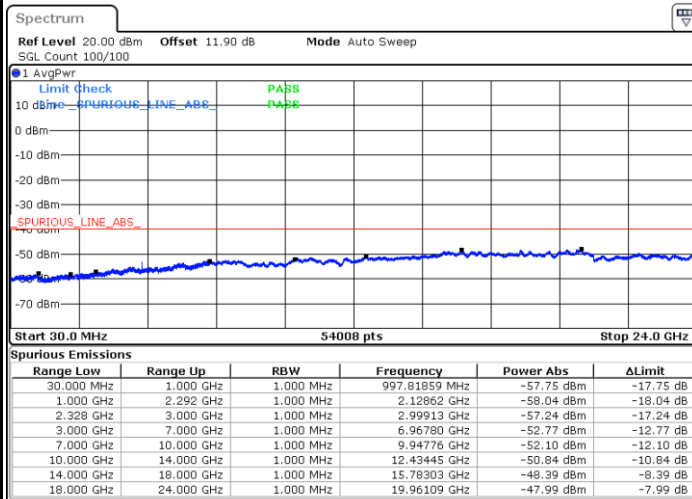


FCC RF Test Report

Report No. : FG9D3107D

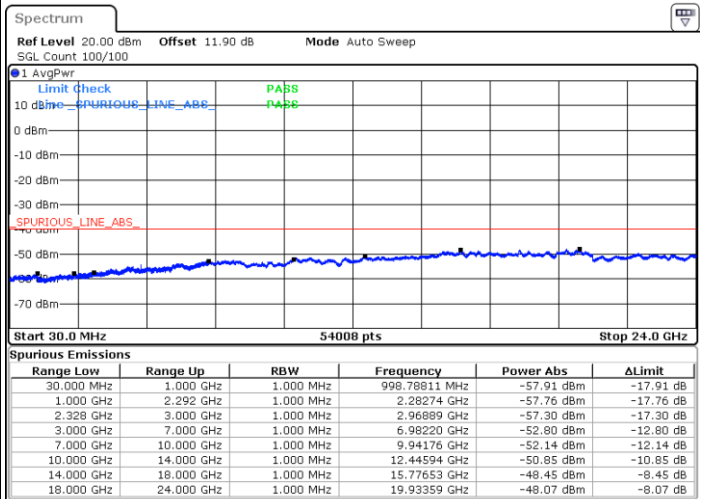
LTE Band 30 / 5MHz

Lowest Channel / QPSK



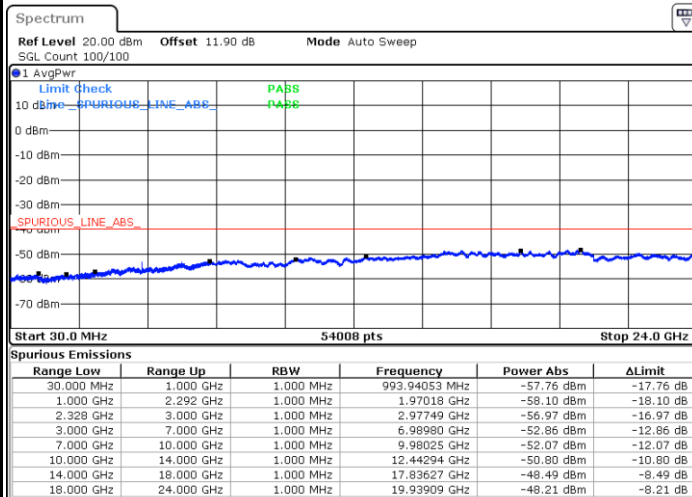
Date: 8 FEB 2020 06:56:25

Lowest Channel / 16QAM



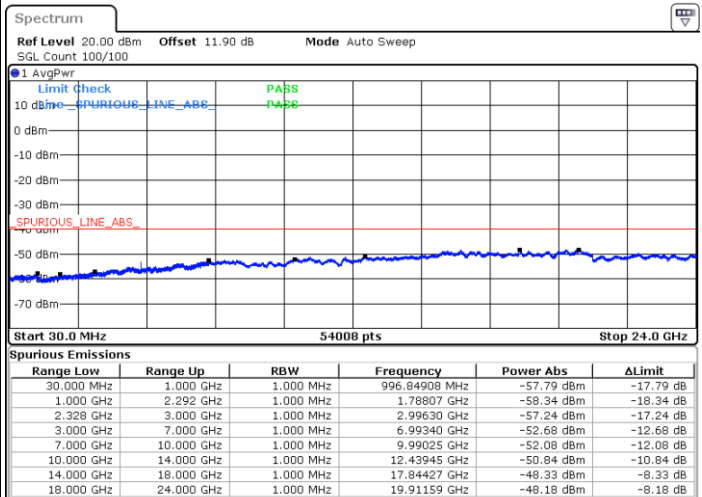
Date: 8 FEB 2020 06:57:08

Middle Channel / QPSK



Date: 8 FEB 2020 06:57:51

Middle Channel / 16QAM



Date: 8 FEB 2020 06:58:34

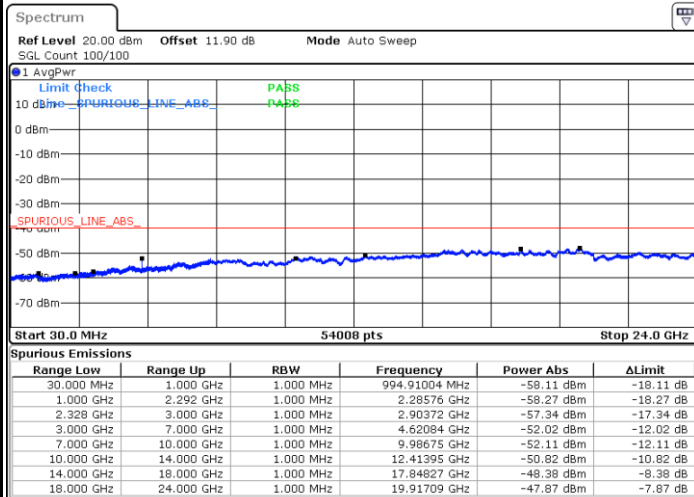


FCC RF Test Report

Report No. : FG9D3107D

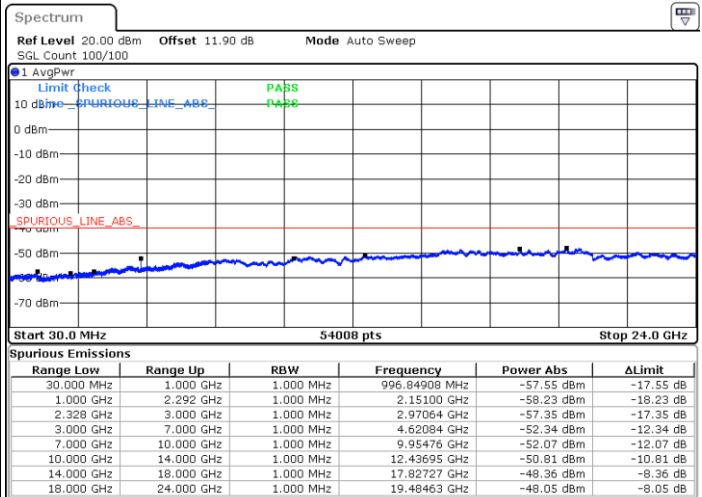
LTE Band 30 / 5MHz

Highest Channel / QPSK



Date: 8 FEB 2020 06:59:17

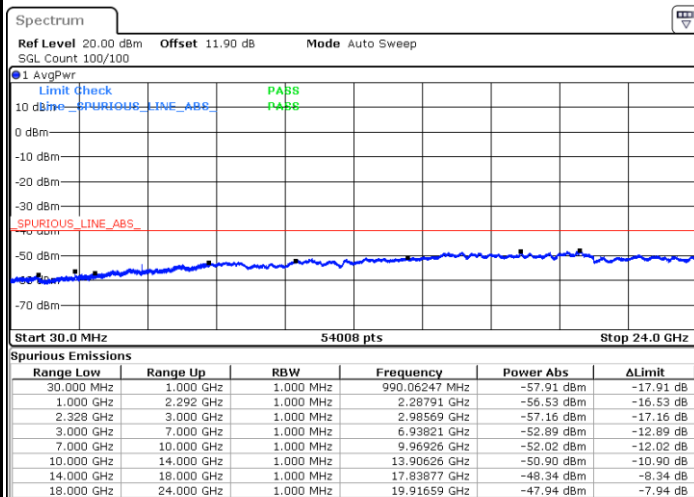
Highest Channel / 16QAM



Date: 8 FEB 2020 07:00:00

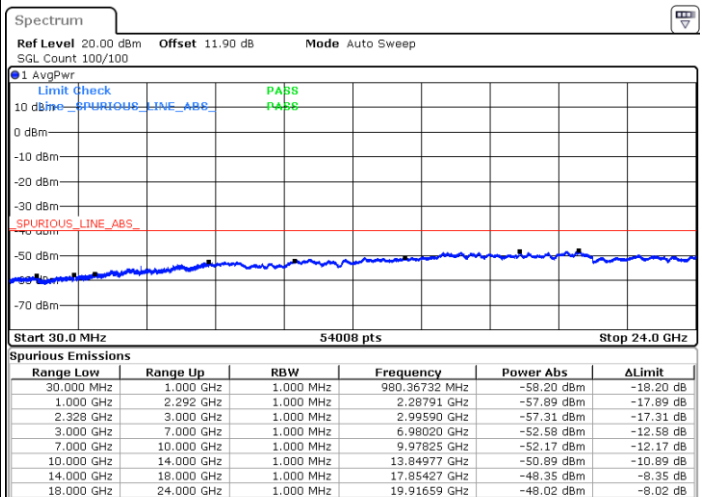
LTE Band 30 / 10MHz

Middle Channel / QPSK



Date: 8 FEB 2020 07:03:36

Middle Channel / 16QAM



Date: 8 FEB 2020 07:04:18

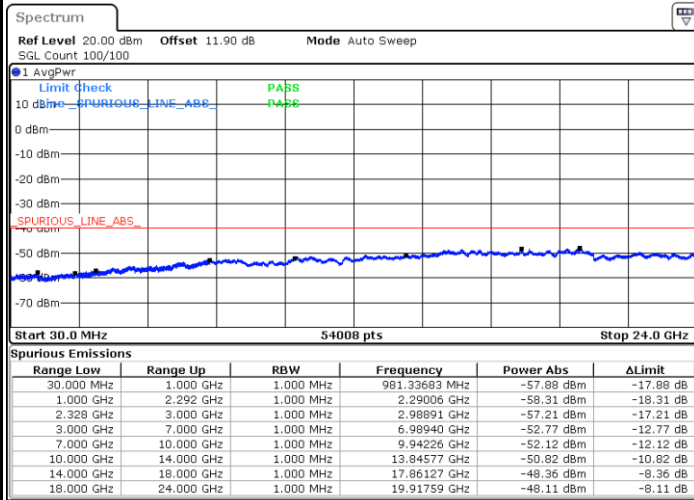


FCC RF Test Report

Report No. : FG9D3107D

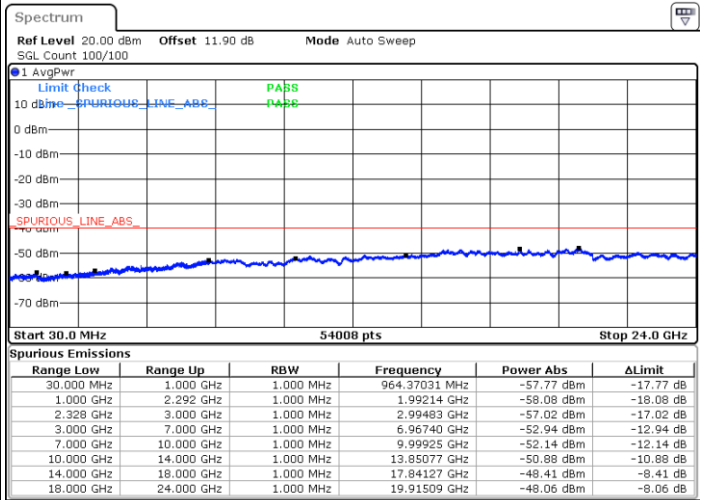
LTE Band 30 / 5MHz

Lowest Channel / 64QAM



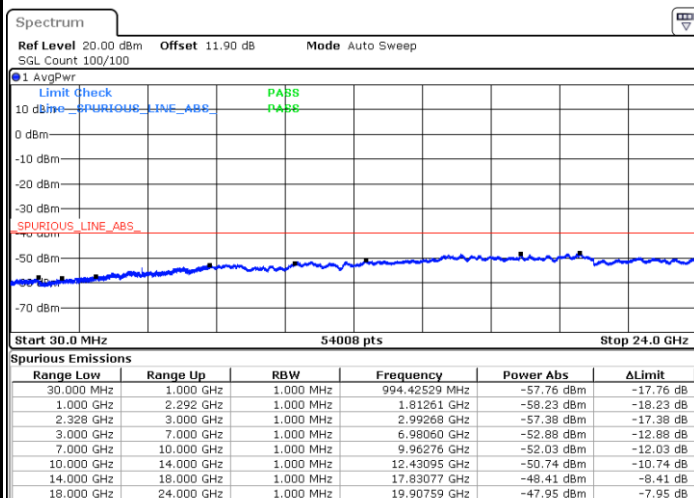
Date: 8.FEB.2020 07:00:43

Middle Channel / 64QAM



Date: 8.FEB.2020 07:01:26

Highest Channel / 64QAM



Date: 8.FEB.2020 07:02:09

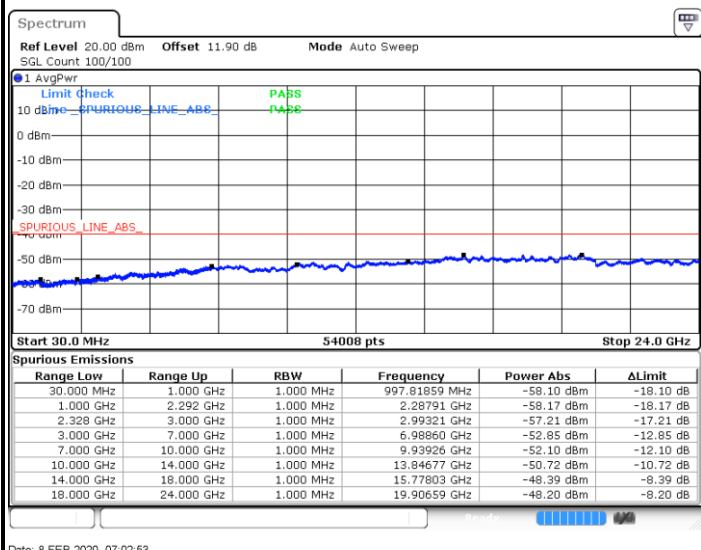


FCC RF Test Report

Report No. : FG9D3107D

LTE Band 30 / 10MHz

Middle Channel / 64QAM



Frequency Stability

Test Conditions		LTE Band 30 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0043	PASS
40	Normal Voltage	0.0026	
30	Normal Voltage	0.0029	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0030	
0	Normal Voltage	0.0015	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0026	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0028	

Note:

1. Normal Voltage =4 V. ; Battery End Point (BEP) =3.7 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

LTE Band 30 / 5MHz / QPSK / RB Size 1 Offset 0									
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)
Lowest	4614	-47.32	-40	-7.32	-38.94	-58.54	1.46	12.68	H
	6924	-59.81	-40	-19.81	-56.02	-70.09	1.73	12.01	H
	9234	-59.68	-40	-19.68	-57.75	-69.29	2.16	11.77	H
	4614	-51.28	-40	-11.28	-42.13	-62.50	1.46	12.68	V
	6924	-60.91	-40	-20.91	-56.67	-71.19	1.73	12.01	V
	9234	-58.14	-40	-18.14	-57.22	-67.75	2.16	11.77	V
Middle	4620	-46.10	-40	-6.10	-37.73	-57.32	1.46	12.68	H
	6930	-60.33	-40	-20.33	-56.56	-70.60	1.73	12.00	H
	9243	-59.85	-40	-19.85	-57.91	-69.44	2.16	11.76	H
	11547	-58.68	-40	-18.68	-60.93	-67.86	2.46	11.63	H
	13860	-54.28	-40	-14.28	-61.51	-63.76	2.86	12.34	H
	4620	-51.55	-40	-11.55	-42.41	-62.77	1.46	12.68	V
	6930	-60.60	-40	-20.60	-56.38	-70.87	1.73	12.00	V
	9243	-58.81	-40	-18.81	-57.9	-68.40	2.16	11.76	V
	11547	-58.80	-40	-18.80	-60.98	-67.98	2.46	11.63	V
	13860	-55.83	-40	-15.83	-63.36	-65.31	2.86	12.34	V
Highest	4626	-46.99	-40	-6.99	-38.63	-58.20	1.46	12.67	H
	6936	-59.32	-40	-19.32	-55.58	-69.58	1.73	11.99	H
	9252	-60.29	-40	-20.29	-58.36	-69.87	2.17	11.75	H
	11565	-59.29	-40	-19.29	-61.57	-68.51	2.46	11.68	H
	13875	-54.35	-40	-14.35	-61.56	-63.81	2.86	12.33	H
	4626	-51.15	-40	-11.15	-42.02	-62.36	1.46	12.67	V
	6936	-60.50	-40	-20.50	-56.31	-70.76	1.73	11.99	V
	9252	-58.68	-40	-18.68	-57.79	-68.26	2.17	11.75	V
	11565	-59.36	-40	-19.36	-61.6	-68.58	2.46	11.68	V
	13875	-55.20	-40	-15.20	-62.7	-64.66	2.86	12.33	V

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



FCC RF Test Report

Report No. : FG9D3107D

LTE Band 30 / 10MHz / QPSK / RB Size 1 Offset 0									
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)
Middle	4620	-46.15	-40	-6.15	-37.78	-57.37	1.46	12.68	H
	6930	-59.99	-40	-19.99	-56.22	-70.26	1.73	12.00	H
	9243	-56.82	-40	-16.82	-57.82	-66.41	2.16	11.76	H
	11550	-59.68	-40	-19.68	-60.68	-68.86	2.46	11.64	H
	13860	-60.45	-40	-20.45	-61.45	-69.93	2.86	12.34	H
	4620	-51.34	-40	-11.34	-42.2	-62.56	1.46	12.68	V
	6930	-60.70	-40	-20.70	-56.48	-70.97	1.73	12.00	V
	9243	-58.57	-40	-18.57	-57.66	-68.16	2.16	11.76	V
	11550	-58.52	-40	-18.52	-60.7	-67.70	2.46	11.64	V
	13860	-55.84	-40	-15.84	-63.37	-65.32	2.86	12.34	V

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