

FCC RF Test Report

APPLICANT : Fibocom Wireless Inc.

EQUIPMENT : 5G Module
BRAND NAME : Fibocom
MODEL NAME : FM350-GL

FCC ID : ZMOFM350GL

STANDARD : 47 CFR Part 2, 27

CLASSIFICATION : PCS Licensed Transmitter (PCB)

The product was received on May 18, 2020 and completely tested on Jan. 11, 2021. We, Sporton International (Shenzhen) 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 (Shenzhen) Inc., the test report shall not be reproduced except in full.

Reviewed by: Derreck Chen / Supervisor

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Sporton International (ShenZhen) Inc.

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People's Republic of China

Sporton International (ShenZhen) Inc.

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Report Version : Rev. 01

Report No.: FG051802E

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REVISION HISTORY

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REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG051802E	Rev. 01	Initial issue of report	Apr. 02, 2021

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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	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 14.38 dB at 9222.000 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.

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1 General Description

1.1 Applicant

Fibocom Wireless Inc.

1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China

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1.2 Manufacturer

Fibocom Wireless Inc.

1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China

1.3 Product Feature of Equipment Under Test

Product Feature							
Equipment	5G Module						
Brand Name	Fibocom						
Model Name	FM350-GL						
FCC ID	ZMOFM350GL						
ELIT cumparts Dadies application	WCDMA/LTE/5G NR						
EUT supports Radios application	GNSS						
IMELCONO	Conducted: 862146050001310						
IMEI Code	Radiation: 882146050002276						
HW Version	V1.0.6						
SW Version	81600.0000.00.09.03.03						
EUT Stage	Identical Prototype						

1.4 Product Specification of Equipment Under Test

Product Feature							
Tx Frequency	LTE Band 30 : 2305 MHz ~ 2315 MHz						
Rx Frequency	LTE Band 30 : 2350 MHz ~ 2360 MHz						
Bandwidth	5MHz / 10MHz						
Maximum Output Power to Antenna	LTE Band 30 : 21.88 dBm						
Antenna Gain	LTE Band 30 : 1.0 dBi						
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM						

1.5 Modification of EUT

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

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1.6 Maximum Conducted Power, Frequency Tolerance and Emission Designator

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L	TE Band 30		QPSK		16QAM			
BW (MHz)	Frequency Range (MHz)	Range Designator Tole		equency Maximum blerance Conducted (ppm) power (W)		Frequency Tolerance (ppm)	Maximum Conducted power (W)	
5	2307.5 ~ 2312.5	4M49G7D	-	0.1538	4M50W7D	-	0.1324	
10	2310.0	8M97G7D	0.0014	0.1542	9M05W7D	-	0.1288	
L	TE Band 30		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)				
	(1411 12)	(33700011)	(PP)	Polici (11)				
5	2307.5 ~ 2312.5	4M53W7D	-	0.1038				

1.7 Testing Site

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International (Shenzhen) Inc.								
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595								
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.						
1001 0110 1101	TH01-SZ	CN1256	421272						

Test Firm Sporton International (Shenzhen) Inc.							
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398						
Test Site No.	Sporton Site No.	FCC Test Firm Registration No.					
.00.00101	03CH03-SZ	CN1256	421272				

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1.8 Test Software

	tem Site		Manufacturer	Name	Version	
I	1.	03CH03-SZ	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
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

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

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2 Test Configuration of Equipment Under Test

2.1 Test Mode

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		Bandwidth (MHz)						Modulation			RB#			Test Channel			
Test Cases	Band	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	М	н
Max. Output	30	-	-	٧		-	-	V	V	V	V	٧	V	V	٧	٧	V
Power		-	-		V	-	-	v	v	V	V	٧	٧	٧		٧	
Peak-to-Average Ratio	30	-	-		v	-	-	V	V	V		V		V		٧	
E.I.R.P	30	-	-	٧		-	-	V	V	V		V			٧	٧	٧
		-	-		٧	-	-	V	V	V		V				V	
26dB and 99%	30	-	-	٧		-	-	V	V	V				V	٧	٧	V
Bandwidth		-	-		٧	-	-	V	V	V				V		٧	
Conducted	30	-	-	٧		-	-	V	V	V		٧		V	٧		٧
Band Edge		-	-		٧	-	-	V	V	V		V		V		V	
Conducted		-	-	v		-	-	v	v	V		v			v	٧	v
Spurious	30																
Emission		-	-		٧	-	-	V	V	V		٧				٧	
Frequency Stability	30	-	-		v	-	-	v						v		٧	
Radiated																	
Spurious	30				v			v				v				٧	
Emission																	
Note	2. T 3. T	he ma he de missia	ark "- vice on te	-" me is in st ur	eans t vestion der d	that th gated differe	nis ba from ent RI	andwidth 30MHz	n is not so to 10 tin		•	_					
	4. F	or mo	dula	tion	of 25	6QAI	√l, the	maxim	um powe		QAM is lo						

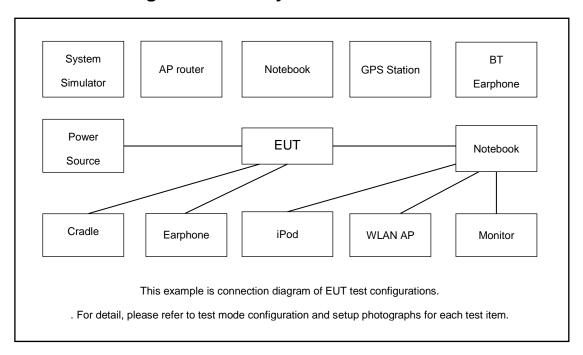
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power (QPSK/16QAM/64QAM) to perform all tests and show in the report.

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.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	Test jig	N/A	N/A	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 5.0 dB and 10dB attenuator.

Example:

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

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= 5.0 + 10 = 15.0 (dB)

2.5 Frequency List of Low/Middle/High Channels

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

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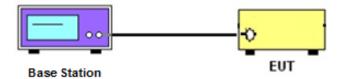
3 Conducted Test Items

3.1 Measuring Instruments

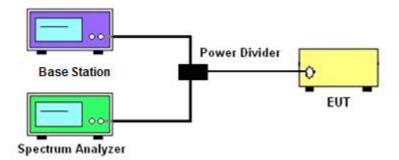
See list of measuring instruments of this test report.

3.2 Test Setup

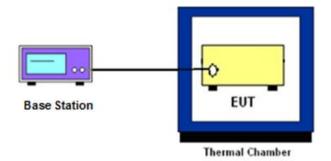
3.2.1 Conducted Output Power



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.

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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.

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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.

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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.

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3.6 EIRP

3.6.1 Description of EIRP

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. According to KDB 412172 D01 Power Approach,
- 2. EIRP = P_T + G_T L_C , ERP = EIRP -2.15, 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

3.7 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.
- 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.
- 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.

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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 >= 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.
- 6. Set spectrum analyzer with RMS detector.
- 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 + 10log(P)dB below the transmitter power P(Watts)

- = P(W) [43 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB) = -13dBm.

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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.
- 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.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 10. 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)
 - = -40dBm

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3.10Frequency 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 ±0.00025% (±2.5ppm) 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.
- 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±5°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.

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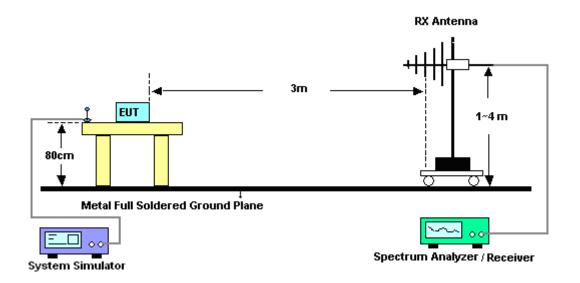
4 Radiated Test Items

4.1 Measuring Instruments

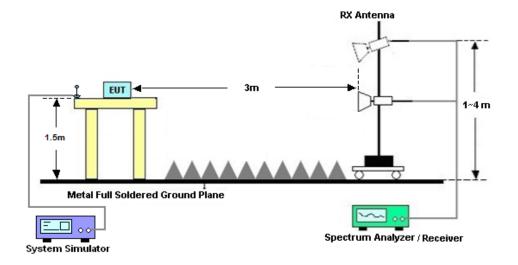
See list of measuring instruments of this test report.

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.

Sporton International (ShenZhen) Inc.

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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.

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The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 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.
- 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.

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

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

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List of Measuring Equipment 5

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 17, 2020	Dec. 19, 2020~ Dec. 21, 2020	Apr. 16, 2021	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangrou p	LP-150U	H201408180 3	-40~+150°C	Jul. 22, 2020	Dec. 19, 2020~ Dec. 21, 2020	Jul. 21, 2021	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY5445008 3	20Hz~8.4GHz	Apr. 17, 2020	Jan. 11, 2021	Apr. 16, 2021	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY5515024 6	10Hz~44GHz;	Apr. 17, 2020	Jan. 11, 2021	Apr. 16, 2021	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Jun. 22, 2020	Jan. 11, 2021	Jun. 21, 2021	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA9120 D	9120D-1355	1GHz~18GHz	Apr. 30, 2020	Jan. 11, 2021	Apr. 29, 2021	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102210	0.01Hz ~3000MHz	Oct. 17, 2020	Jan. 11, 2021	Oct. 16, 2021	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 21, 2020	Jan. 11, 2021	Jul. 20, 2021	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 23, 2020	Jan. 11, 2021	Apr. 22, 2021	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY3950130 2	500MHz~26.5G Hz	Dec. 25, 2020	Jan. 11, 2021	Dec. 24, 2021	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	6160100019 85	N/A	NCR	Jan. 11, 2021	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jan. 11, 2021	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jan. 11, 2021	NCR	Radiation (03CH03-SZ)

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NCR: No Calibration Required

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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	3.0dB
Confidence of 95% (U = 2Uc(y))	3.0dB

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

Measuring Uncertainty for a Level of	3.6dB
Confidence of 95% (U = 2Uc(y))	3.500

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

Measuring Uncertainty for a Level of	0.015
,	3.8dB
Confidence of 95% (U = 2Uc(y))	

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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
	Chan	nel			27710	
	Frequency	y (MHz)		2310		
10	QPSK	1	0		21.60	
10	QPSK	1	25		21.88	
10	QPSK	1	49		21.72	
10	QPSK	25	0		20.56	
10	QPSK	25	12		20.55	
10	QPSK	25	25		20.50	
10	QPSK	50	0		20.52	
10	16QAM	1	0		21.10	
10	16QAM	1	25		20.66	
10	16QAM	1	49		20.80	
10	16QAM	25	0		19.67	
10	16QAM	25	12		19.73	
10	16QAM	25	25		19.55	
10	16QAM	50	0		19.68	
10	64QAM	1	0		19.64	
10	64QAM	1	25		19.58	
10	64QAM	1	49		20.08	
10	64QAM	25	0		18.59	
10	64QAM	25	12		18.71	
10	64QAM	25	25		18.52	
10	64QAM	50	0		18.52	

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	Chan	nel	27685	27710	27735	
	Frequency	y (MHz)	2307.5	2310	2312.5	
5	QPSK	1	0	21.66	21.83	21.82
5	QPSK	1	12	21.87	21.78	21.82
5	QPSK	1	24	21.76	21.76	21.80
5	QPSK	12	0	20.60	20.84	20.86
5	QPSK	12	7	20.72	20.72	20.81
5	QPSK	12	13	20.70	20.62	20.77
5	QPSK	25	0	20.73	20.70	20.72
5	16QAM	1	0	21.17	21.15	21.22
5	16QAM	1	12	20.87	21.07	20.98
5	16QAM	1	24	20.65	21.15	20.74
5	16QAM	12	0	19.68	19.77	19.84
5	16QAM	12	7	19.66	19.78	19.81
5	16QAM	12	13	19.70	19.60	19.69
5	16QAM	25	0	19.74	19.81	19.82
5	64QAM	1	0	20.00	20.05	20.08
5	64QAM	1	12	19.78	19.81	19.82
5	64QAM	1	24	20.01	20.16	19.91
5	64QAM	12	0	18.66	18.73	18.98
5	64QAM	12	7	18.68	18.73	18.74
5	64QAM	12	13	18.64	18.56	18.76
5	64QAM	25	0	18.71	18.69	18.80

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LTE Band 30 (GT - LC = 1.0 dB) QPSK (dBm/5MHz)							
Bandwidth		5M					
Channel	27685	27710	27735				
Channel	(Low)	(Mid)	(High)				
Frequency	2307.5	2310	0040.5				
(MHz)	2307.3	2310	2312.5				
Conducted Power (dBm)	21.87	21.78	21.82				
Conducted Power (Watts)	0.1538	0.1507	0.1521				
EIRP(dBm)	22.87	22.78	22.82				
EIRP(Watts)	0.1936	0.1897	0.1914				
Limit	250mW / 5MHz	PASS					

LTE B	LTE Band 30 (GT - LC = 1.0 dB) QPSK (dBm/5MHz)					
Bandwidth		10M				
Channel		27710				
Channel		(Mid)				
Frequency		2310				
(MHz)		2010				
Conducted Power (dBm)		21.88				
Conducted Power (Watts)		0.1542				
EIRP(dBm)		22.88				
EIRP(Watts)		0.1941				
Limit	250mW / 5MHz = 24dBm / 5MHz		PASS			

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LTE Band 30 (GT - LC = 1.0 dB) 16QAM (dBm/5MHz)						
Bandwidth	5M					
Channel	27685	27710	27735			
Chame	(Low)	(Mid)	(High)			
Frequency	2307.5	2310	2312.5			
(MHz)	2307.3	2310	2312.3			
Conducted Power (dBm)	21.17	21.15	21.22			
Conducted Power (Watts)	0.1309	0.1303	0.1324			
EIRP(dBm)	22.17	22.15	22.22			
EIRP(Watts)	0.1648	0.1641	0.1667			
Limit	250mW / 5MHz = 24dBm / 5MHz PASS					

LTE Ba	LTE Band 30 (GT - LC = 1.0 dB) 16QAM (dBm/5MHz)					
Bandwidth	10M					
Channel		27710				
Channel		(Mid)				
Frequency		2310				
(MHz)		2310				
Conducted Power (dBm)		21.10				
Conducted Power (Watts)		0.1288				
EIRP(dBm)		22.10				
EIRP(Watts)		0.1622				
Limit	250mW / 5MHz :	PASS				

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LTE Band 30 (GT - LC = 1.0 dB) 64QAM (dBm/5MHz)						
Bandwidth	5M					
Channel	27685	27710	27735			
Chamilei	(Low)	(Mid)	(High)			
Frequency	2307.5	2310	2312.5			
(MHz)	2307.3	2310	2312.3			
Conducted Power (dBm)	20.01	20.16	19.91			
Conducted Power (Watts)	0.1002	0.1038	0.0979			
EIRP(dBm)	21.01	21.16	20.91			
EIRP(Watts)	0.1262	0.1306	0.1233			
Limit	250mW / 5MHz = 24dBm / 5MHz PASS					

LTE Band 30 (GT - LC = 1.0 dB) 64QAM (dBm/5MHz)					
Bandwidth	10M				
Channel		27710			
Channel		(Mid)			
Frequency		2310			
(MHz)		2310			
Conducted Power (dBm)		20.08			
Conducted Power (Watts)		0.1019			
EIRP(dBm)		21.08			
EIRP(Watts)		0.1282			
Limit	250mW / 5MHz :	PASS			

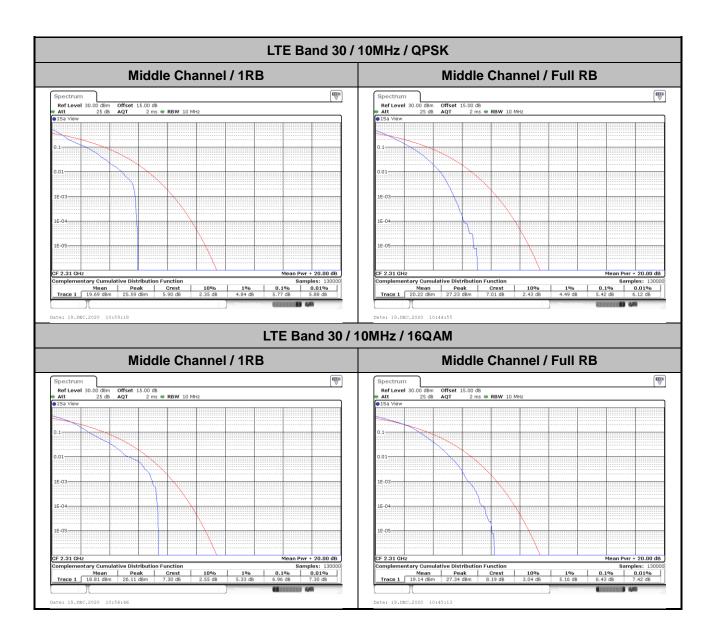
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Peak-to-Average Ratio

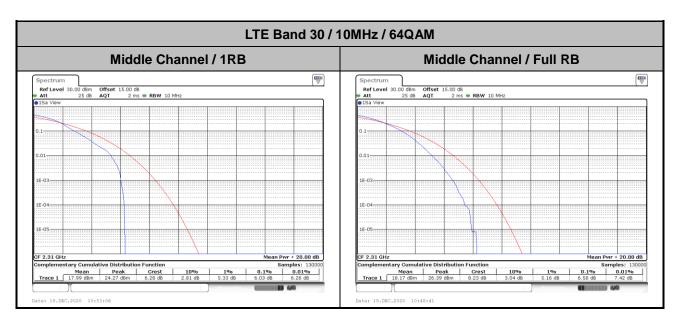
Mode					
Mod.	QP	SK	16C	Limit: 13dB	
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	
Middle CH	5.77	5.42	6.96	6.43	PASS
Highest CH	-	-	-	-	
Mode					
Mod.	64C	AM		Limit: 13dB	
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	
Middle CH	6.03	6.58	-	-	PASS
Highest CH	-	-	-	-]

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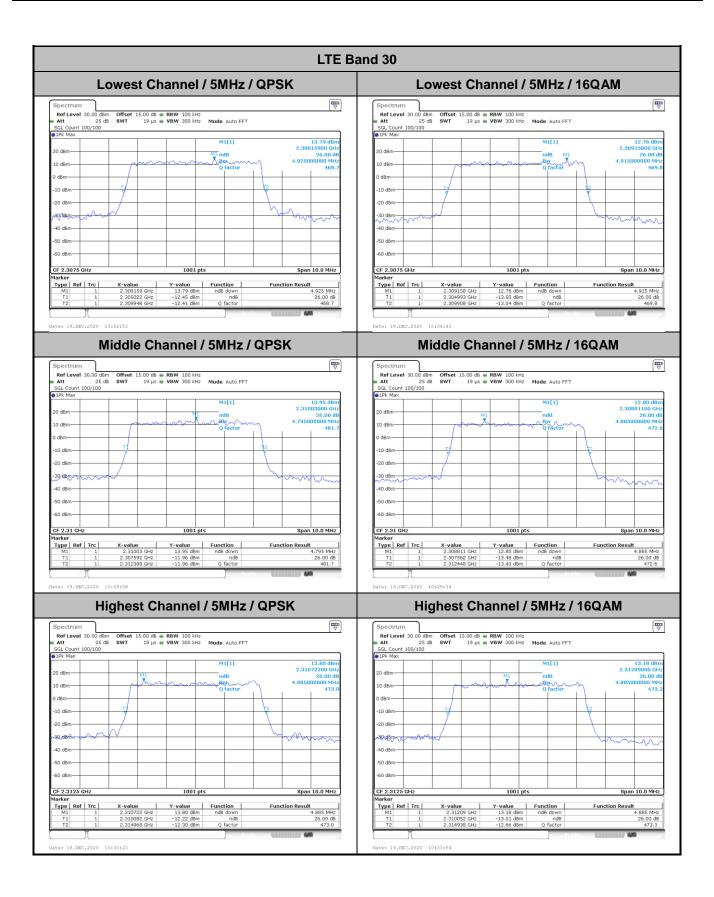
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26dB Bandwidth

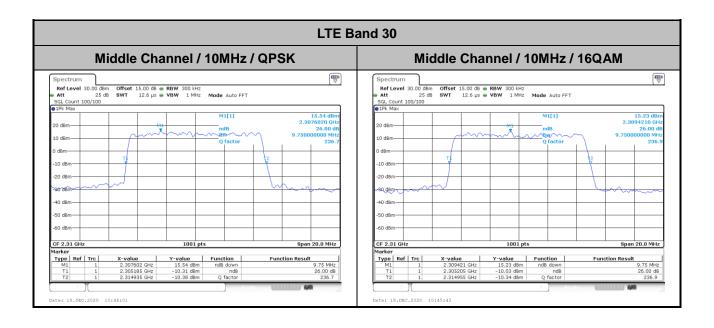
Mode	LTE Band 30 : 26dB BW(MHz)											
BW	1.4	ИHz	3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.93	4.92	-	-	-	-	-	-
Middle CH	-	-	-	-	4.80	4.89	9.75	9.75	-	-	-	-
Highest CH	-	-	-	-	4.89	4.89	-	-	-	-	-	-
Mode		LTE Band 30 : 26dB BW(MHz)										
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.89	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.84	-	9.75	-	-	-	-	-
Highest CH	-	-	-	-	4.88	-	-	-	-	-	-	-

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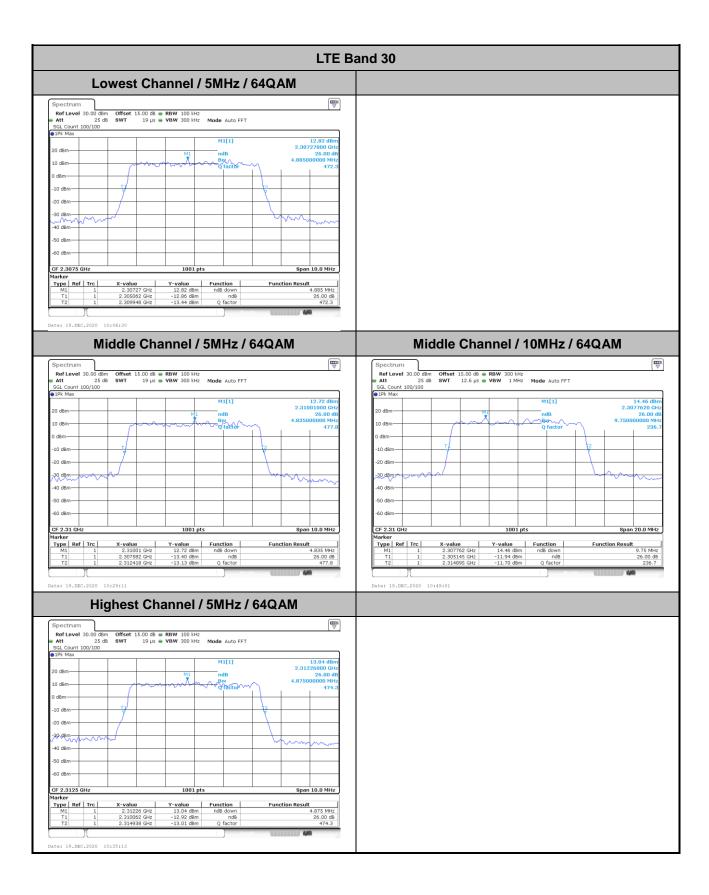
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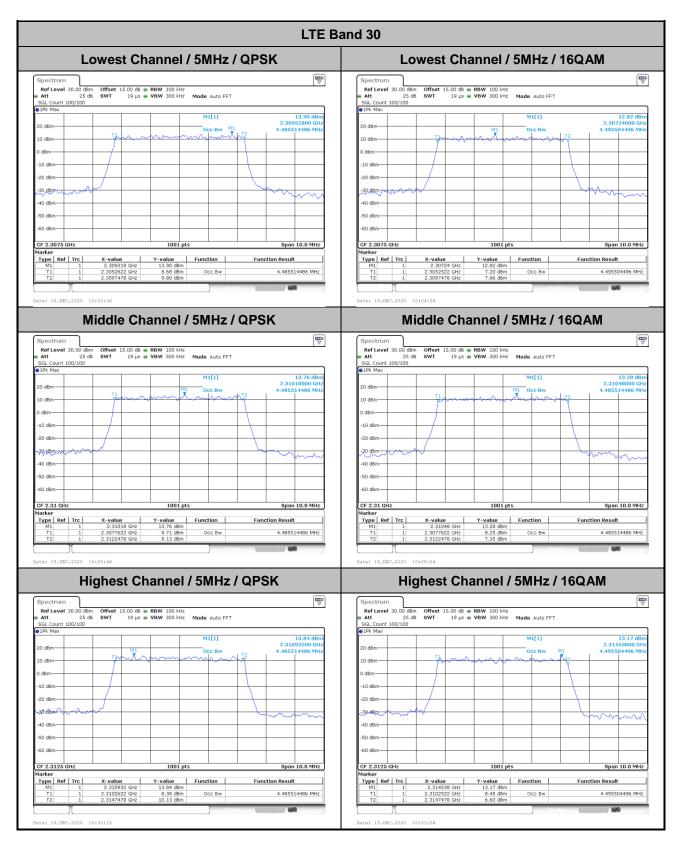
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Occupied Bandwidth

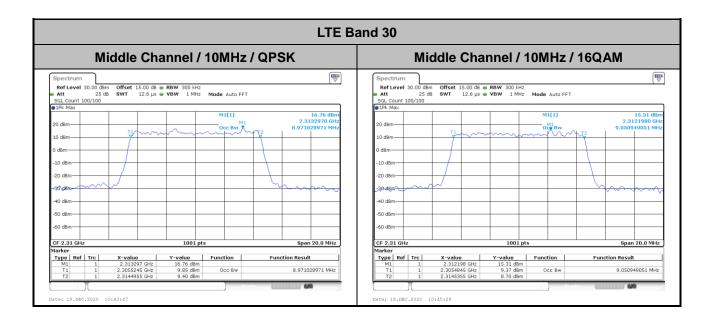
Mode	LTE Band 30 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.49	4.50	-	-	-	-	-	-
Middle CH	-	-	-	-	4.49	4.49	8.97	9.05	-	-	-	-
Highest CH	-	-	-	-	4.49	4.50	-	-	-	-	-	-
Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.49	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.53	-	9.07	-	-	-	-	-
Highest CH	-	-	-	-	4.48	-	-	-	-	-	1	-

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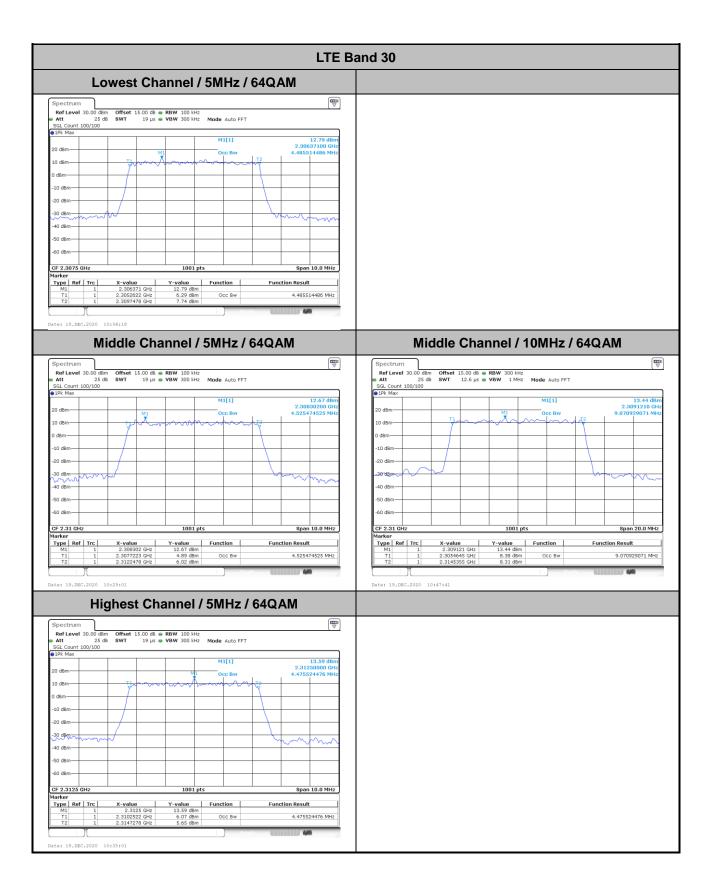
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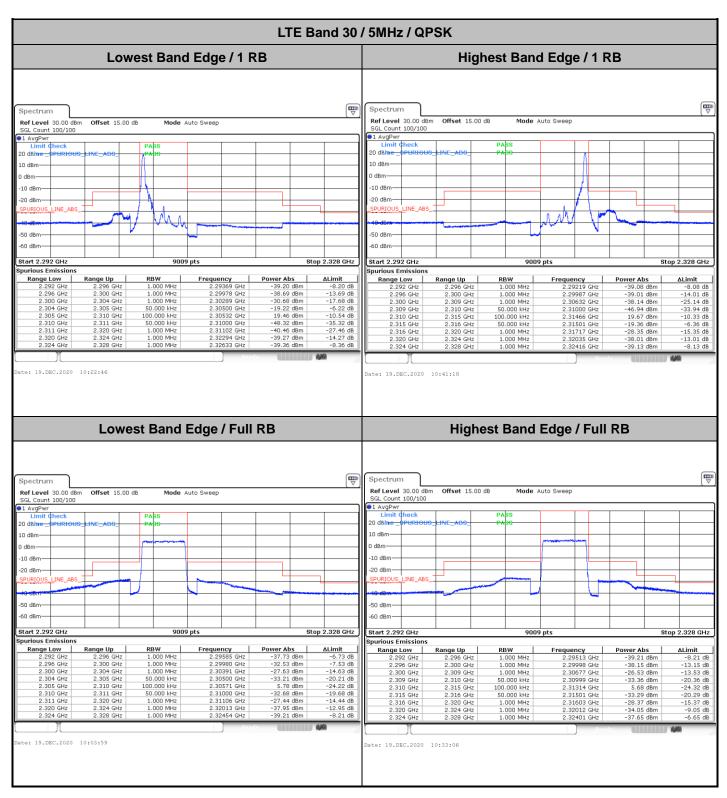


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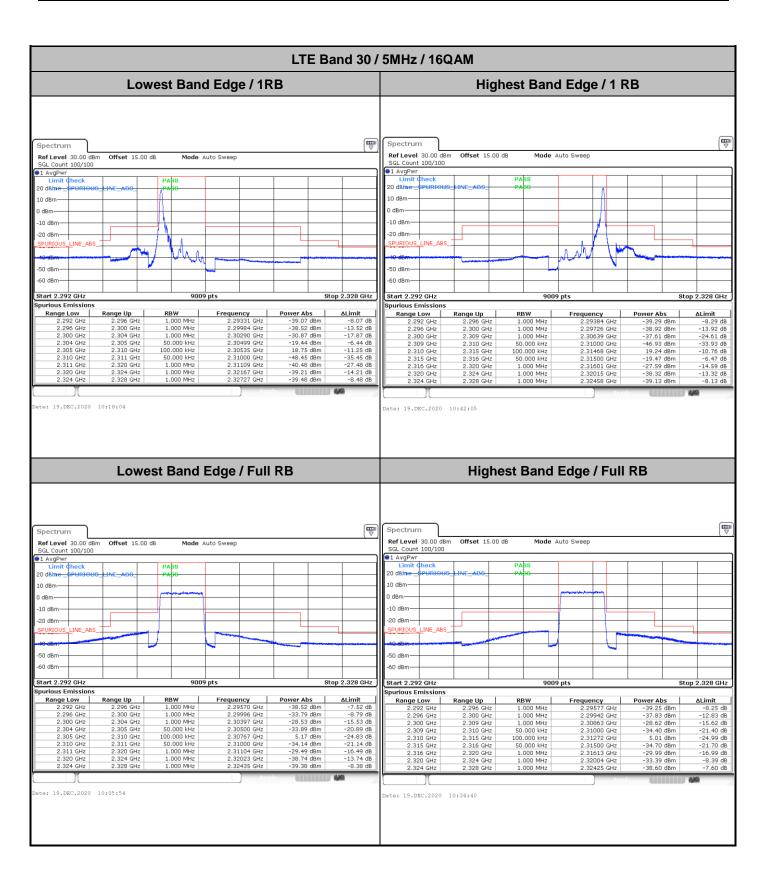
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Conducted Band Edge

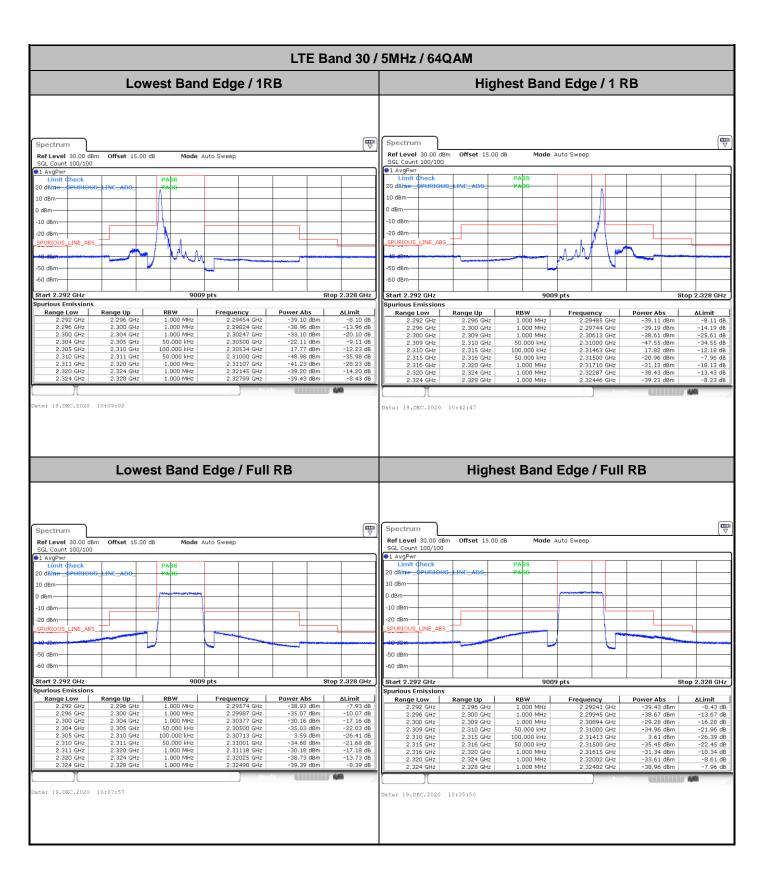


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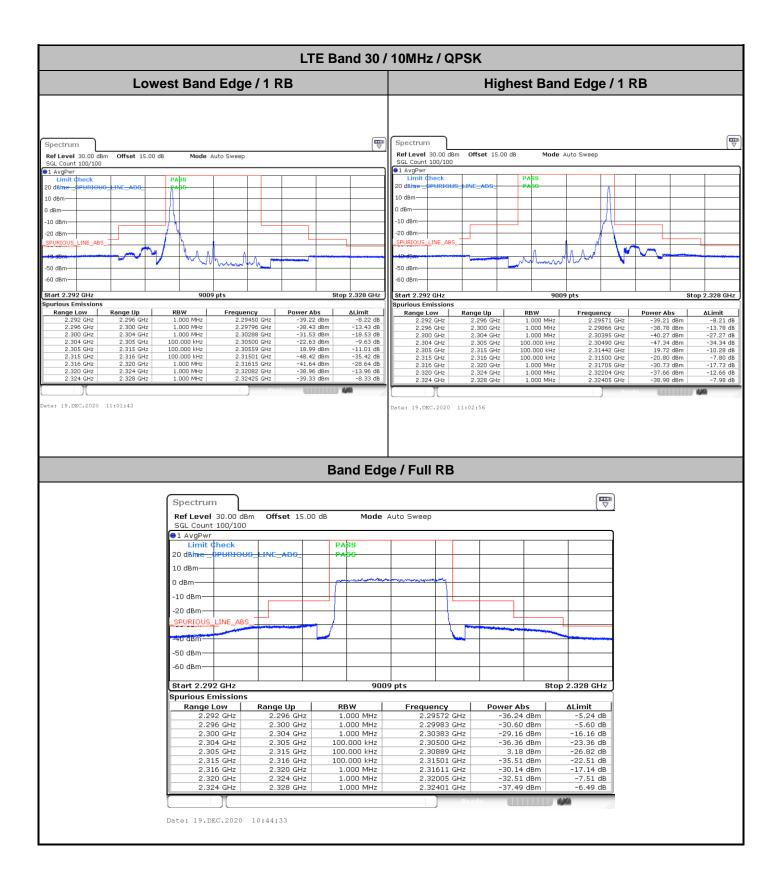
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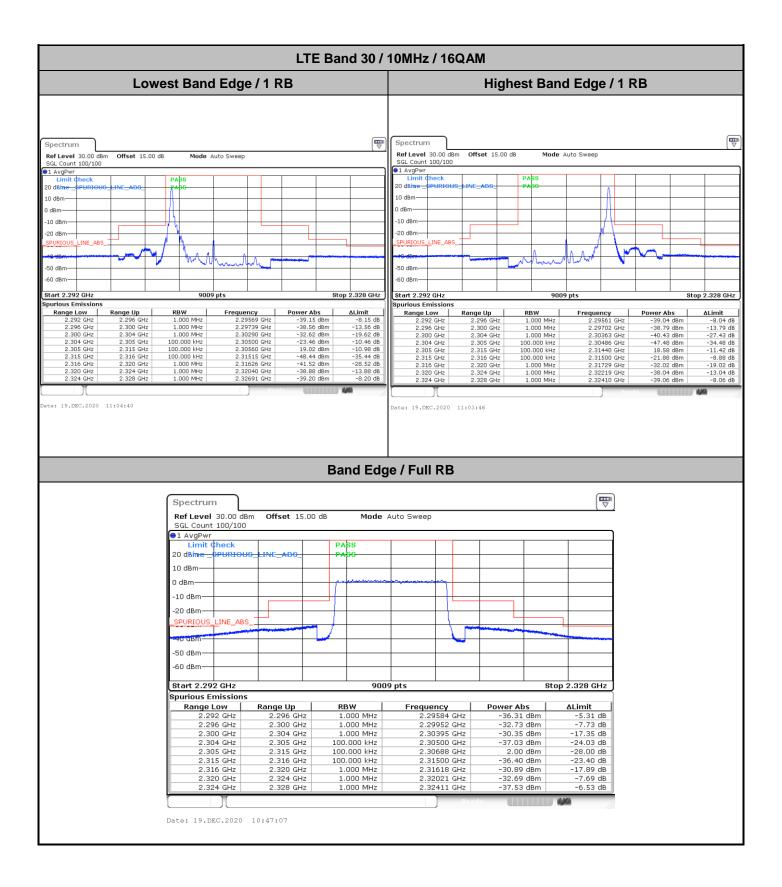
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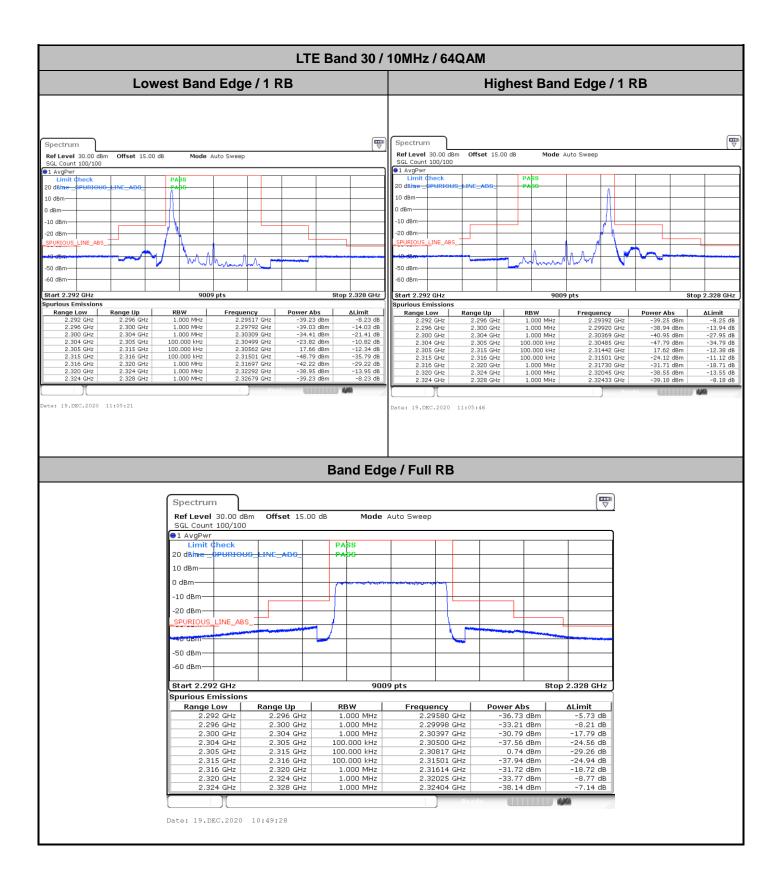
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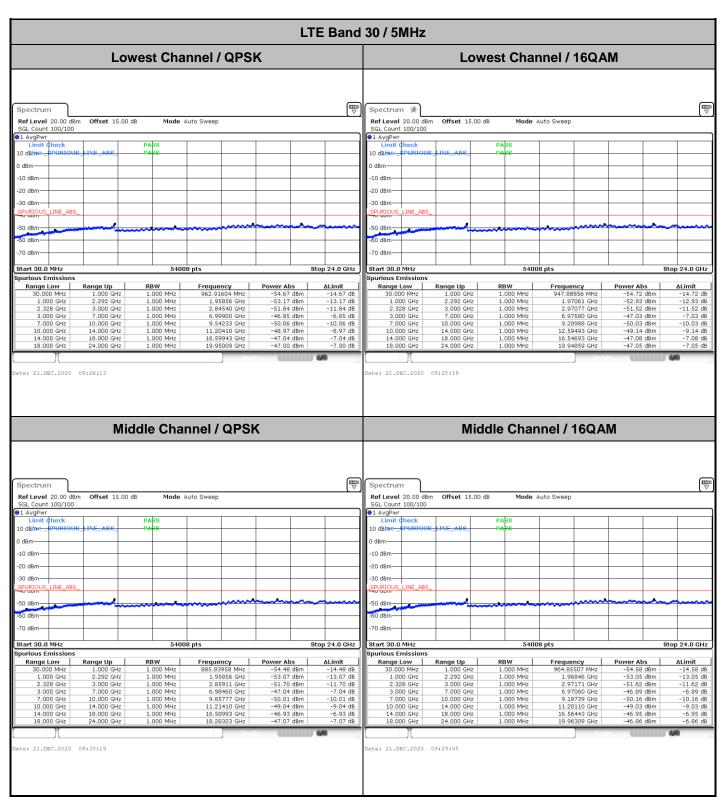


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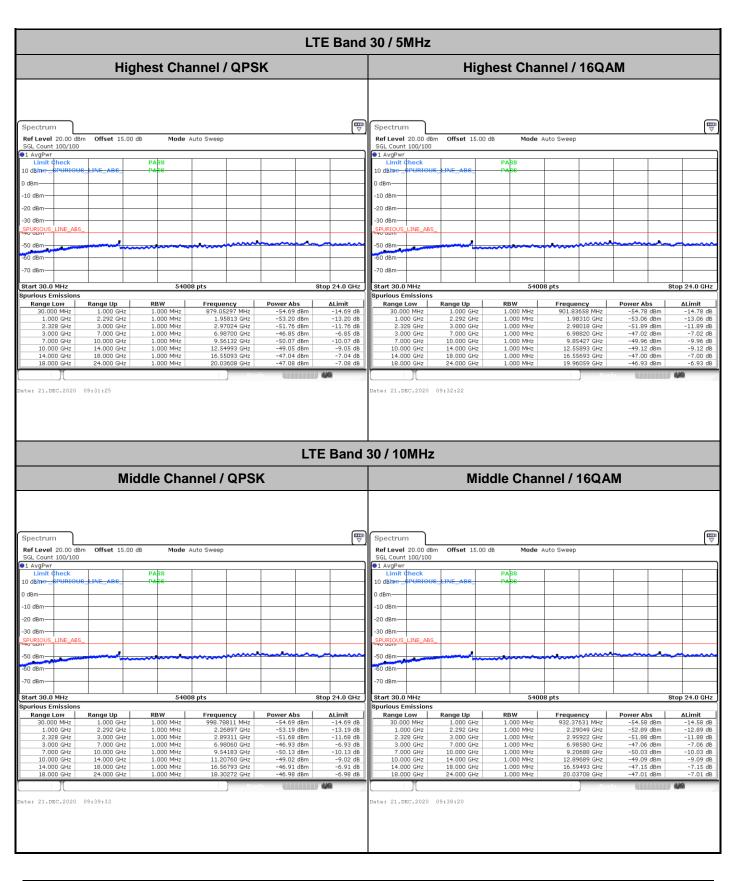
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Conducted Spurious Emission

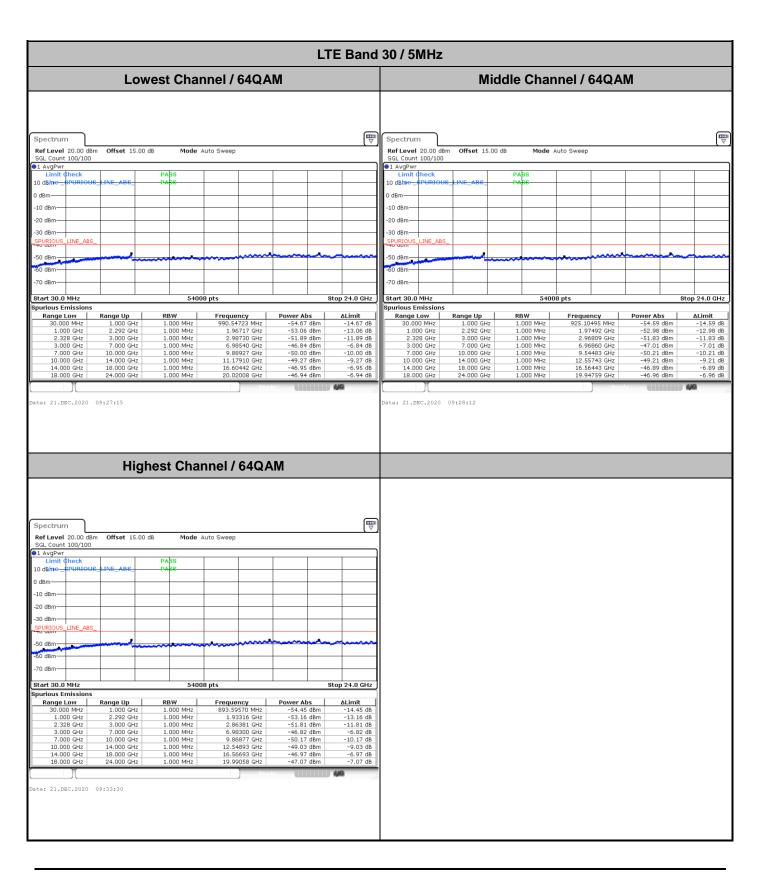


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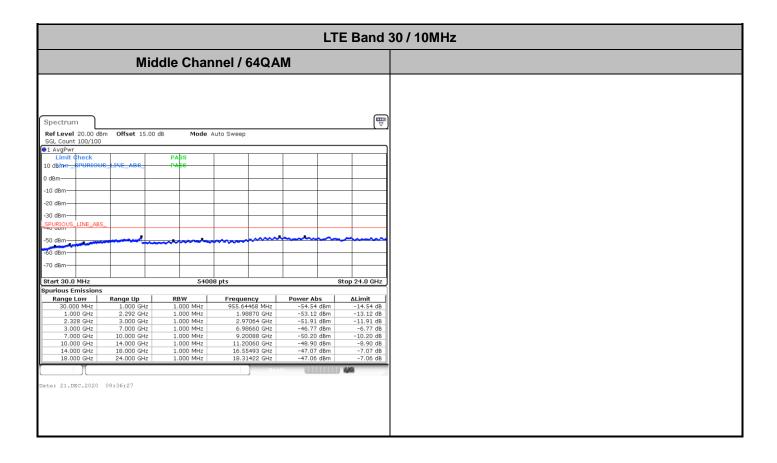
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Frequency Stability

Test (Conditions	LTE Band 30 (QPSK) / Middle Channel		
Temperature (°C)		BW 10MHz	Note 2.	
	Voltage (Volt)	Deviation (ppm)	Result	
50	Normal Voltage	0.0004		
40	Normal Voltage	0.0008		
30	Normal Voltage	0.0006		
20(Ref.)	Normal Voltage	0.0000		
10	Normal Voltage	0.0009		
0	Normal Voltage	0.0003		
-10	Normal Voltage	0.0002	PASS	
-20	Normal Voltage	0.0007		
-30	Normal Voltage	0.0014		
20	Maximum Voltage	0.0013		
20	Normal Voltage	0.0000		
20	Battery End Point	0.0005		

Note:

- 1. Normal Voltage =3.3 V.; Battery End Point (BEP) =3.14 V.; Maximum Voltage =4.4 V.
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block.

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Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

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	4611.50	-62.28	-40	-22.28	-55.07	-68.53	6.45	12.70	Н		
	6916.50	-59.29	-40	-19.29	-54.68	-62.69	8.40	11.80	Н		
	9222.00	-54.38	-40	-14.38	-55.46	-56.73	9.65	12.00	Н		
	4611.50	-62.45	-40	-22.45	-55.09	-68.70	6.45	12.70	V		
	6916.50	-59.27	-40	-19.27	-54.62	-62.67	8.40	11.80	V		
	9222.00	-54.76	-40	-14.76	-55.42	-57.11	9.65	12.00	V		

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

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