# **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, 22(H), 24(E), 27(L) CLASSIFICATION : PCS Licensed Transmitter (PCB)

The product was received on May 18, 2020 and completely tested on Jan. 29, 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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Approved by: Eric Shih / Manager

Sporton International (ShenZhen) Inc.

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People's Republic of China

Sporton International (ShenZhen) Inc.

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Report No.: FG051802A

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# **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG051802A	Rev. 01	Initial issue of report	Mar. 31, 2021

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# **SUMMARY OF TEST RESULT**

Report FCC Rule		Description Limit		Result	Remark
	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(5)	Effective Radiated Power	< 7 Watts	PASS	-
3.4	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power	< 1 Watts	PASS	-
3.5	§24.232(d)	Peak-to-Average Ratio	< 13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Conducted Emission	< 43+10log10(P[Watts])	PASS	-
	§2.1055 §22.355	Frequency Stability for	< 2.5 ppm for Part 22		
3.9	§2.1055 §24.235 §27.54	Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053; §22.917(a); §24.238(a); §27.53(h)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 41.75 dB at 7409.600 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

## 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				
EUT supports Radios application	WCDMA/LTE/5G NR				
EOT Supports Radios application	GNSS				
IMEI Code	Conducted: 862146050001310				
INELCODE	Radiation: 882146050002276				
HW Version	V1.0.6				
SW Version	81600.0000.00.09.03.03				
EUT Stage	Identical Prototype				

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

# 1.4 Product Specification of Equipment Under Test

Standards-related Product Specification					
	WCDMA:				
Ty Fraguency	Band V:	824 MHz ~ 849 MHz			
Tx Frequency	Band II:	1850 MHz ~ 1910 MHz			
	Band IV:	1710 MHz ~ 1755 MHz			
	WCDMA:				
By Fraguency	Band V:	869 MHz ~ 894 MHz			
Rx Frequency	Band II:	1930 MHz ~ 1990 MHz			
	Band IV:	2110 MHz ~ 2155 MHz			
Maximum Qutnut Bower to Antonna	WCDMA:				
Maximum Output Power to Antenna	Band V:	23.60 dBm			

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	Band II: 23.46 dBm			
	Band IV: 23.45 dBm			
Antenna Type PIFA antenna				
	Cellular Band: 3.0 dBi			
Antenna Gain	PCS Band: 4.0 dBi			
	AWS Band: 3.0 dBi			
	WCDMA: BPSK			
	HSDPA/DC-HSDPA: QPSK			
Type of Modulation	HSUPA : QPSK			
	HSPA+: 16QAM			
	DC-HSDPA: 64QAM			

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## 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

FCC Rule	Frequency Band	Frequency Range (MHz)	Type of Modulation	Maximum Conducted power (W)	Frequency Tolerance (ppm)	Emission Designator
Part 22	WCDMA Band V	826.4 ~ 846.6	BPSK	0.2291	0.0043 ppm	4M15F9W
Part 24	WCDMA Band II	1852.4 ~ 1907.6	BPSK	0.2218	0.0022 ppm	4M14F9W
Part 27	WCDMA Band IV	1712.4 ~ 1752.6	BPSK	0.2213	0.0045 ppm	4M14F9W

# 1.7 Testing Location

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				

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Test Firm	Sporton International (She	enzhen) 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 Designation No.	FCC Test Firm Registration No.		
1001 0110 1101	03CH03-SZ	CN1256	421272		

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#### 1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH03-SZ	AUDIX	E3	6.2009-8-24

# 1.9 Applicable Standards

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

- 47 CFR Part 2, 22(H), 24(E), 27(L)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

## Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, 2. 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 were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

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

Radiated emissions were investigated as following frequency range:

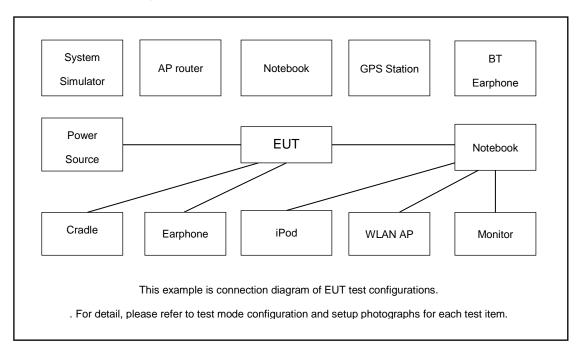
- 30 MHz to 10th harmonic for WCDMA Band V.
- 2. 30 MHz to 10th harmonic for WCDMA Band IV.
- 3. 30 MHz to 10th harmonic for WCDMA Band II.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test Modes							
Band	Radiated TCs	Conducted TCs					
WCDMA Band V	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link					
WCDMA Band II	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link					
WCDMA Band IV	■ RMC 12.2Kbps Link	■ RMC 12.2Kbps Link					

# 2.2 Connection Diagram of Test System



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# 2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GW INSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
3.	Test jig	N/A	N/A	N/A	N/A	N/A

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

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

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 4.0 dB and a 10dB attenuator.

#### Example:

$$Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$$
  
= 4.0 + 10 = 14.0 (dB)

# 2.5 Frequency List of Low/Middle/High Channels

Frequency List							
Band Channel/Frequency(MHz) Lowest Middle Highest							
WCDMA	Channel	4132	4182	4233			
Band V	Frequency	826.4	836.4	846.6			
WCDMA	Channel	9262	9400	9538			
Band II	Frequency	1852.4	1880.0	1907.6			
WCDMA Band IV	Channel	1312	1413	1513			
	Frequency	1712.4	1732.6	1752.6			

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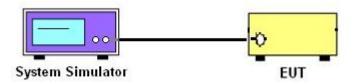
## 3 Conducted Test Result

# 3.1 Measuring Instruments

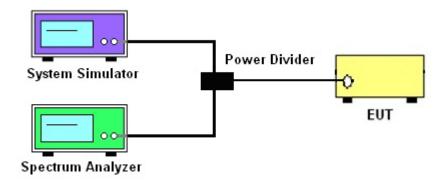
See list of measuring instruments of this test report.

## 3.2 Test Setup

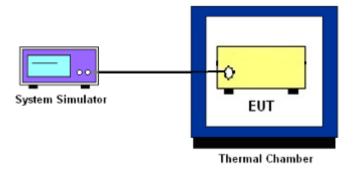
## 3.2.1 Conducted Output Power



# 3.2.2 Peak-to-Average Ratio, Occupied Bandwidth, Conducted 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 and ERP/EIRP

### 3.4.1 Description of the Conducted Output Power and ERP/EIRP

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

The ERP of mobile transmitters must not exceed 7 Watts for WCDMA Band V.

The EIRP of mobile transmitters must not exceed 2 Watts for WCDMA Band II.

The EIRP of mobile transmitters must not exceed 1 Watts for WCDMA Band IV.

According to KDB 412172 D01 Power Approach,

 $EIRP = P_T + G_T - L_C$ , ERP = EIRP - 2.15, where

 $P_T$  = transmitter output power in dBm

 $G_T$  = gain of the transmitting antenna in dBi

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

#### 3.4.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.2
- 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

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 99% Occupied Bandwidth and 26dB Bandwidth Measurement

### 3.6.1 Description of 99% Occupied Bandwidth and 26dB 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.

#### 3.6.2 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.
- 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.

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# 3.7 Conducted Band Edge

### 3.7.1 Description of Conducted Band Edge 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 43 + 10 log (P) dB.

#### 3.7.2 Test Procedures

- 1. The testing follows ANSI C63.26 section 5.7
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator.The path loss was compensated to the results for each measurement.
- 4. The band edges of low and high channels for the highest RF powers were measured.
- 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 6. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

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# 3.8 Conducted Spurious Emission

### 3.8.1 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 43 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10<sup>th</sup> harmonic.

#### 3.8.2 Test Procedures

- 1. The testing follows ANSI C63.26 section 5.7
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- 3. The RF output of EUT was connected to the spectrum analyzer by an 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. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 7. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

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# 3.9 Frequency Stability

## 3.9.1 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.

#### 3.9.2 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.

## 3.9.3 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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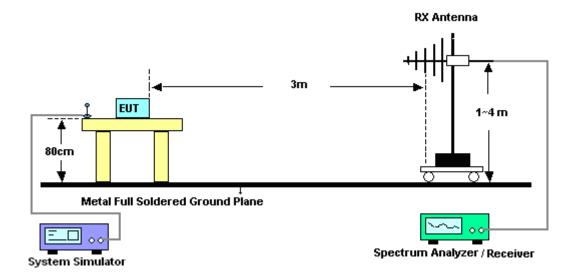
# 4 Radiated Test Items

# 4.1 Measuring Instruments

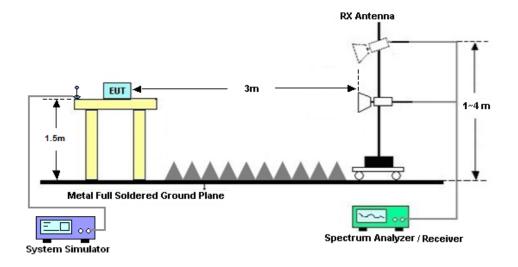
See list of measuring instruments of this test report.

# 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.

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# 4.4 Field Strength of Spurious Radiation Measurement

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

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 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 rotatable wooden table 0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz above the ground.
- 3. The EUT was set 3 meters from the receiving antenna, which was 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 one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
- 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
- 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 9. Taking the record of output power at antenna port.
- 10. Repeat step 7 to step 8 for another polarization.
- 11. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 12.ERP (dBm) = EIRP 2.15
- 13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

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# 5 List of Measuring Equipment

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. 22, 2020	Apr. 16, 2021	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangrou p	LP-150U	H201408180 3	-40~+150°C	Jul. 22, 2020	Dec. 22, 2020	Jul. 21, 2021	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY5445008 3	20Hz~8.4GHz	Apr. 17, 2020	Jan. 11, 2021~ Jan. 29, 2021	Apr. 16, 2021	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY5515024 6	10Hz~44GHz;	Apr. 17, 2020	Jan. 11, 2021~ Jan. 29, 2021	Apr. 16, 2021	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Jun. 22, 2020	Jan. 11, 2021~ Jan. 29, 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~ Jan. 29, 2021	Apr. 29, 2021	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102210	0.01Hz ~3000MHz	Oct. 17, 2020	Jan. 11, 2021~ Jan. 29, 2021	Oct. 16, 2021	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 21, 2020	Jan. 11, 2021~ Jan. 29, 2021	Jul. 20, 2021	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 23, 2020	Jan. 11, 2021~ Jan. 29, 2021	Apr. 22, 2021	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY3950130 2	500MHz~26.5G Hz	Dec. 25, 2020	Jan. 11, 2021~ Jan. 29, 2021	Dec. 24, 2021	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	6160100019 85	N/A	NCR	Jan. 11, 2021~ Jan. 29, 2021	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jan. 11, 2021~ Jan. 29, 2021	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jan. 11, 2021~ Jan. 29, 2021	NCR	Radiation (03CH03-SZ)

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)

ı		
	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))	3.0dB

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

	<u>-</u>
Measuring Uncertainty for a Level of	3.8dB
Confidence of 95% (U = 2Uc(y))	3.0UD

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

# Conducted Output Power(Average power)

Conducted Power (*Unit: dBm)									
Band	WCI	MA Ba	nd V	WCDMA Band II			WCDMA Band IV		
Channel	4132	4182	4233	9262	9400	9538	1312	1413	1513
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6
RMC 12.2K	23.55	23.50	23.60	23.46	23.40	23.19	23.41	23.44	23.45
HSDPA Subtest-1	22.53	22.53	22.66	22.46	22.45	22.40	22.35	22.40	22.44
HSDPA Subtest-2	22.52	22.48	22.58	22.40	22.42	22.10	22.34	22.40	22.42
HSDPA Subtest-3	22.03	22.04	22.11	21.93	21.95	21.68	21.89	21.91	21.99
HSDPA Subtest-4	22.00	21.98	22.05	21.92	21.93	21.70	21.82	21.90	21.95
DC-HSDPA Subtest-1	22.14	22.06	22.03	22.10	21.76	21.51	22.63	22.41	22.51
DC-HSDPA Subtest-2	22.15	22.03	22.02	22.11	21.77	21.50	22.60	22.37	22.49
DC-HSDPA Subtest-3	21.62	21.52	21.50	21.59	21.23	21.08	22.09	21.86	21.98
DC-HSDPA Subtest-4	21.61	21.51	21.49	21.57	21.24	21.87	22.08	21.85	21.97
HSUPA Subtest-1	20.50	20.48	20.56	20.41	20.39	20.12	20.55	20.59	20.64
HSUPA Subtest-2	20.46	20.48	20.57	20.44	20.41	20.15	20.52	20.58	20.63
HSUPA Subtest-3	21.55	21.53	21.59	21.46	21.46	21.22	21.37	21.42	21.45
HSUPA Subtest-4	20.03	20.05	20.13	20.19	20.14	19.93	20.04	20.17	20.18
HSUPA Subtest-5	21.50	21.50	21.50	21.33	21.43	21.13	21.33	21.33	21.43
HSPA+ (16QAM) Subtest-1	21.64	21.58	21.62	21.44	21.45	21.29	21.49	21.42	21.45

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# ERP/EIRP

WCDMA Band V ( $G_T$ - $L_C$ = 3.0 dB)						
Channel	4132	4182	4233			
Channel	(Low)	(Mid)	(High)			
Frequency	000.4	000.4	846.6			
(MHz)	826.4	836.4				
Conducted Power (dBm)	23.55	23.50	23.60			
Conducted Power (Watts)	0.2265	0.2239	0.2291			
ERP(dBm)	24.40	24.35	24.45			
ERP(Watts)	0.2754	0.2723	0.2786			

WCDMA Band II (G <sub>T</sub> - L <sub>C</sub> = 4.0 dB)						
Channel	9262	9400	9538			
Channel	(Low)	(Mid)	(High)			
Frequency	4050 4	4000	1907.6			
(MHz)	1852.4	1880				
Conducted Power (dBm)	23.46	23.40	23.19			
Conducted Power (Watts)	0.2218	0.2188	0.2084			
EIRP(dBm)	27.46	27.40	27.19			
EIRP(Watts)	0.5572	0.5495	0.5236			

WCDMA Band IV ( $G_T - L_C = 3.0 \text{ dB}$ )						
Channel	1312	1413	1513			
Channel	(Low)	(Mid)	(High)			
Frequency	1712.4	1732.6	1752.6			
(MHz)	1712.4	1732.6				
Conducted Power (dBm)	23.41	23.44	23.45			
Conducted Power (Watts)	0.2193	0.2208	0.2213			
EIRP(dBm)	26.41	26.44	26.45			
EIRP(Watts)	0.4375	0.4406	0.4416			

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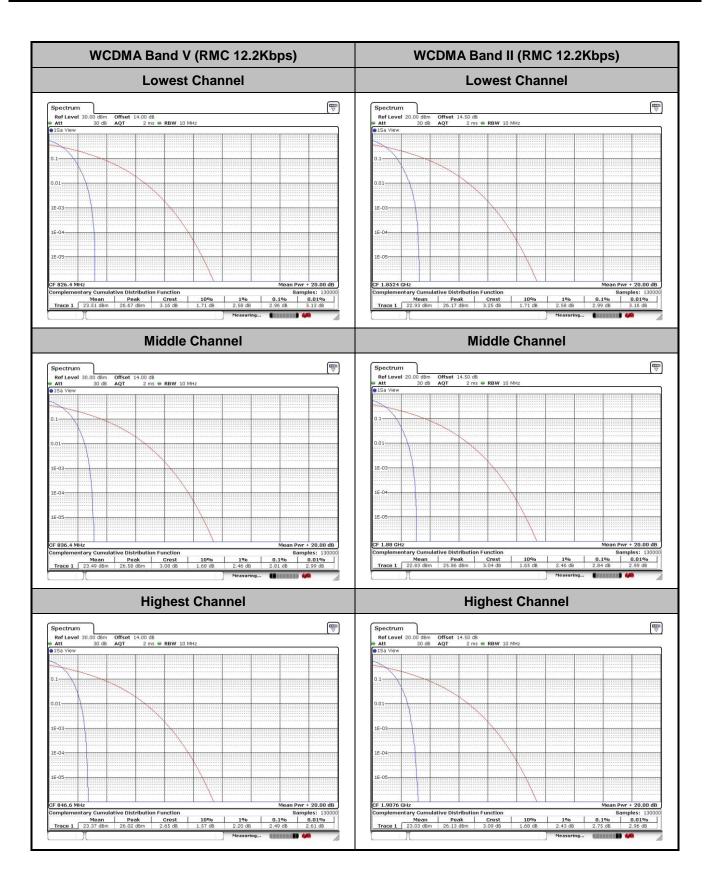
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# Peak-to-Average Ratio

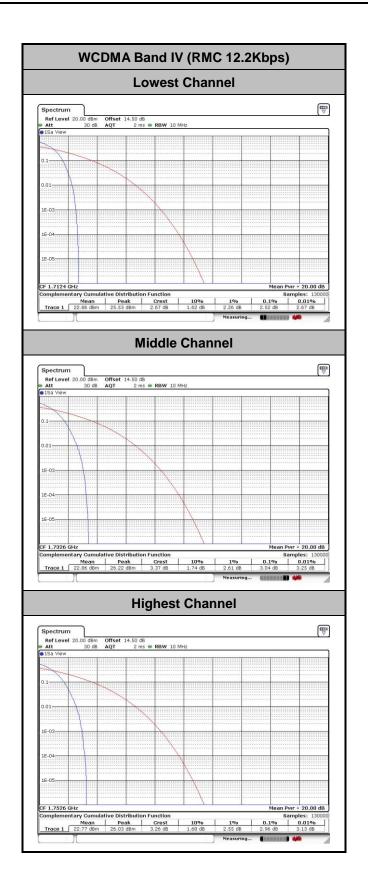
Mode	WCDMA Band V(dB)	V(dB) WCDMA Band II(dB) WCDMA Band IV(dB)		Limit: 13dB
Mod.	RMC 12.2Kbps	bps RMC 12.2Kbps RMC 12.2Kbps		Result
Lowest CH	2.96	2.99	2.52	
Middle CH	2.81	2.84	3.04	PASS
Highest CH	2.49	2.75	2.96	

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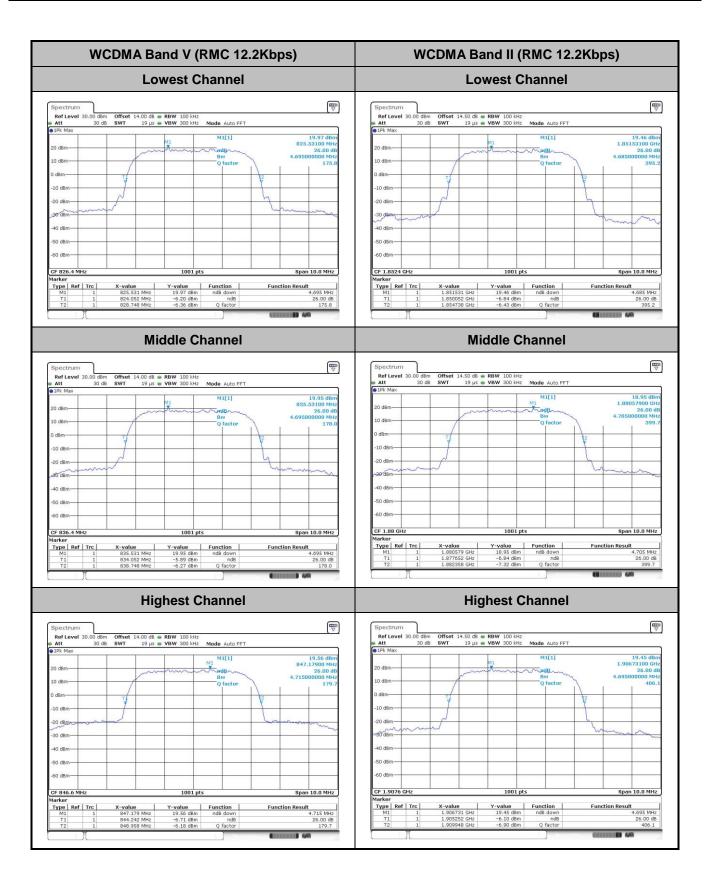
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# 26dB Bandwidth

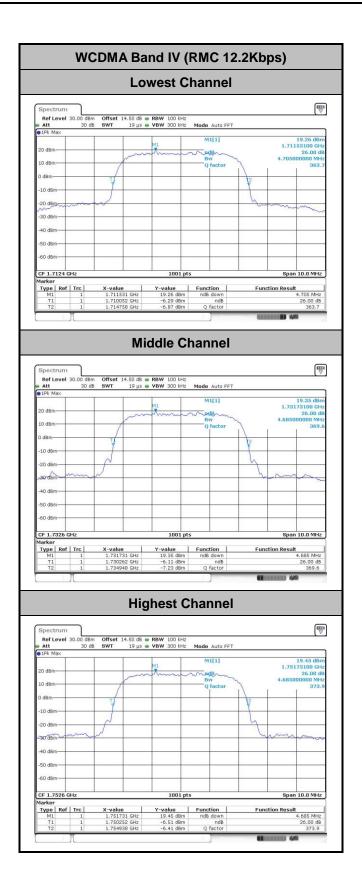
Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)	WCDMA Band IV(MHz)		
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps		
Lowest CH	4.70	4.69	4.71		
Middle CH	4.70	4.71	4.69		
Highest CH	4.72	4.70	4.69		

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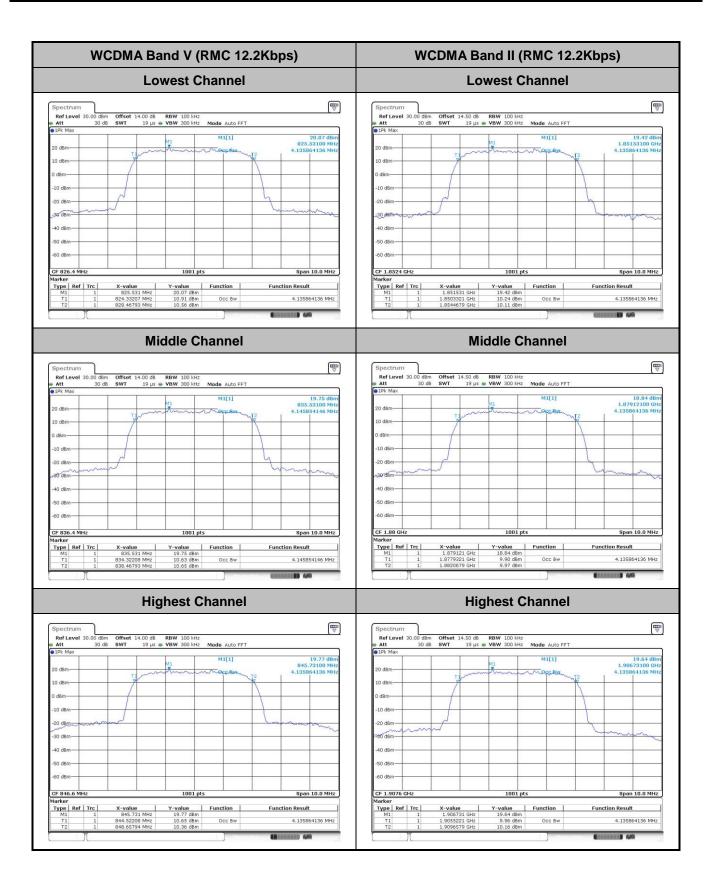
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# **Occupied Bandwidth**

Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)	WCDMA Band IV(MHz)		
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps		
Lowest CH	4.14	4.14	4.14		
Middle CH	4.15	4.14	4.14		
Highest CH	4.14	4.14	4.14		

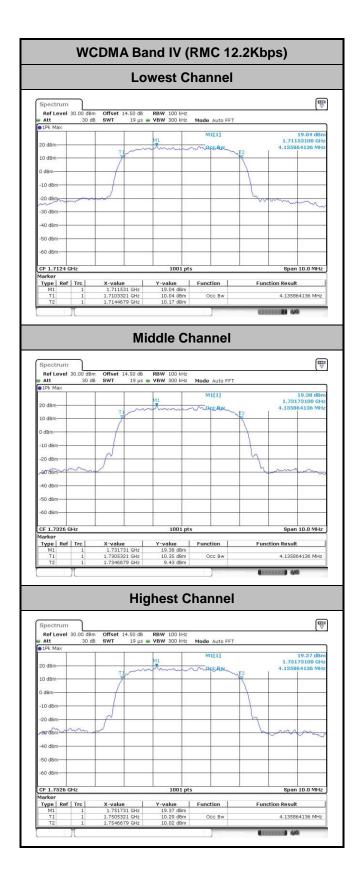
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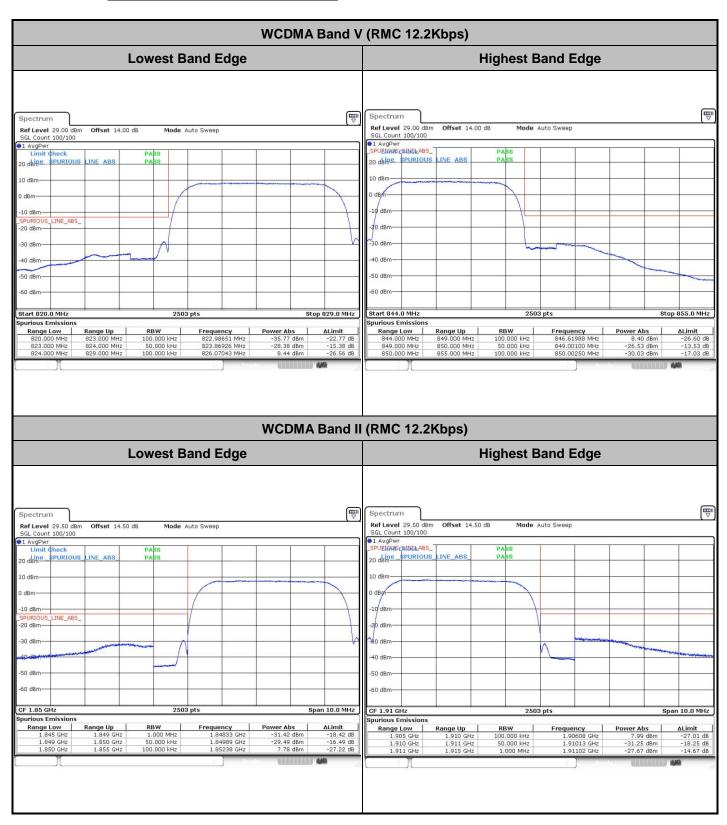
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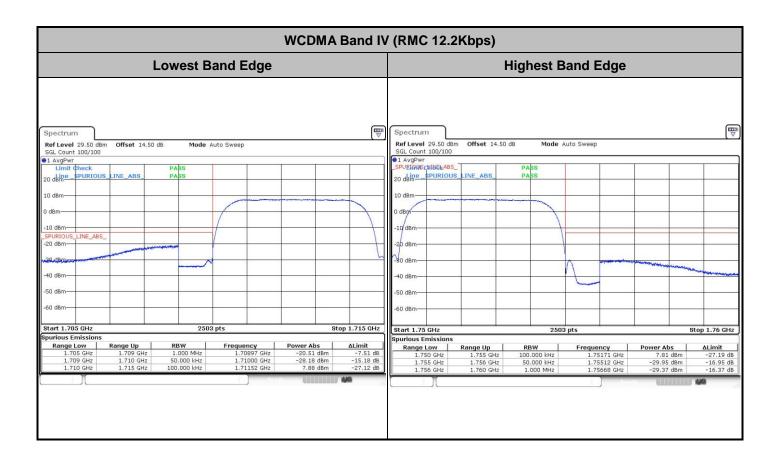
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# **Conducted Band Edge**



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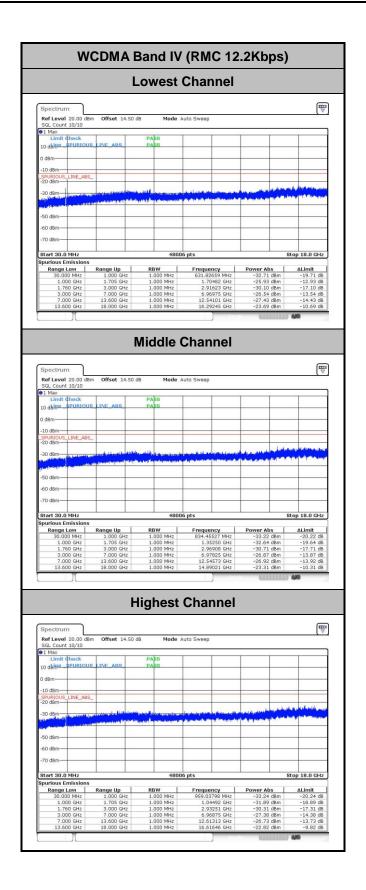
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# **Conducted Spurious Emission**



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# Frequency Stability

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2KbpsRMC 12.2Kbps)				
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result			
50	Normal Voltage	0.0033				
40	Normal Voltage	0.0015				
30	Normal Voltage	0.0013				
20(Ref.)	Normal Voltage	0.0000				
10	Normal Voltage	0.0014				
0	Normal Voltage	0.0043				
-10	Normal Voltage	0.0034	PASS			
-20	Normal Voltage	0.0028				
-30	Normal Voltage	0.0013				
20	Maximum Voltage	0.0012				
20	Normal Voltage	0.0000				
20	Battery End Point	0.0007				

Note: Normal Voltage = 3.3V. ; Battery End Point (BEP) = 3.14 V.; Maximum Voltage =4.4 V

Test Conditions	Middle Channel	Middle Channel WCDMA Band II (RMC 12.2Kbps)		
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result	
50	Normal Voltage	0.0011		
40	Normal Voltage	0.0012		
30	Normal Voltage	0.0001		
20(Ref.)	Normal Voltage	0.0000		
10	Normal Voltage	0.0016		
0	Normal Voltage	0.0003		
-10	Normal Voltage	0.0022	PASS	
-20	Normal Voltage	0.0007		
-30	Normal Voltage	0.0002		
20	Maximum Voltage	0.0014		
20	Normal Voltage	0.0000		
20	Battery End Point	0.0004		

#### Note:

- 1. Normal Voltage = 3.3V. ; Battery End Point (BEP) = 3.14 V.; Maximum Voltage =4.4 V
- 2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0004	
40	Normal Voltage	0.0045	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0036	
-10	Normal Voltage	0.0005	PASS
-20	Normal Voltage	0.0032	
-30	Normal Voltage	0.0031	
20	Maximum Voltage	0.0044	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0038	

#### Note:

- 1. Normal Voltage = 3.3V. ; Battery End Point (BEP) = 3.14 V. ; Maximum Voltage =4.4 V
- **2.** The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Sporton International (ShenZhen) Inc.

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# **Appendix B. Test Results of Radiated Test**

# **Radiated Spurious Emission**

WCDMA Band V(RMC 12.2Kbps)									
Channel	Frequency (MHz)	ERP (dBm)	Limit ( dBm )	Over Limit ( dB )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
	1652.8	-65.89	-13	-52.89	-72.17	-69.12	3.98	9.36	Н
	2479.2	-63.76	-13	-50.76	-74.09	-67.31	4.85	10.55	Н
Lowoot	3305.6	-62.78	-13	-49.78	-75.13	-67.71	5.50	12.58	Н
Lowest	1652.8	-66.28	-13	-53.28	-72.43	-69.51	3.98	9.36	V
	2479.2	-63.48	-13	-50.48	-74.16	-67.03	4.85	10.55	V
	3305.6	-62.68	-13	-49.68	-75.48	-67.61	5.50	12.58	V
	1672.8	-65.63	-13	-52.63	-71.85	-68.88	4.00	9.40	Н
	2509.2	-63.69	-13	-50.69	-73.94	-67.26	4.88	10.60	Н
Middle	3345.6	-63.48	-13	-50.48	-75.51	-68.41	5.52	12.60	Н
ivildale	1672.8	-66.30	-13	-53.30	-72.24	-69.55	4.00	9.40	V
	2509.2	-63.30	-13	-50.30	-73.88	-66.87	4.88	10.60	V
	3345.6	-62.88	-13	-49.88	-75.29	-67.81	5.52	12.60	V
	1693.2	-66.23	-13	-53.23	-72.56	-69.40	4.10	9.42	Н
	2539.8	-63.92	-13	-50.92	-74.21	-67.50	4.90	10.63	Н
Highest	3386.4	-63.91	-13	-50.91	-75.92	-68.83	5.55	12.62	Н
	1693.2	-66.41	-13	-53.41	-72.51	-69.58	4.10	9.42	V
	2539.8	-63.69	-13	-50.69	-74.32	-67.27	4.90	10.63	V
	3386.4	-62.97	-13	-49.97	-75.50	-67.89	5.55	12.62	V

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

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WCDMA Band II(RMC 12.2Kbps)									
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)
	3704.8	-62.00	-13	-49.00	-76.54	-68.76	5.82	12.58	Н
	5557.2	-60.54	-13	-47.54	-78.09	-66.26	7.28	13.00	Н
Lowest	7409.6	-54.91	-13	-41.91	-77.60	-58.07	8.32	11.48	Н
Lowest	3704.8	-61.53	-13	-48.53	-76.36	-68.29	5.82	12.58	V
	5557.2	-60.75	-13	-47.75	-78.33	-66.47	7.28	13.00	V
	7409.6	-54.75	-13	-41.75	-77.48	-57.91	8.32	11.48	V
	3760	-61.31	-13	-48.31	-75.96	-68.06	5.85	12.60	Н
	5640	-60.20	-13	-47.20	-77.95	-66.00	7.30	13.10	Н
Middle	7520	-54.92	-13	-41.92	-77.23	-58.07	8.35	11.50	Н
Middle	3760	-61.35	-13	-48.35	-76.18	-68.10	5.85	12.60	V
	5640	-60.32	-13	-47.32	-77.96	-66.12	7.30	13.10	V
	7520	-55.07	-13	-42.07	-77.26	-58.22	8.35	11.50	V
	3815.2	-61.78	-13	-48.78	-76.55	-68.52	5.88	12.62	Н
Highest	5722.8	-60.03	-13	-47.03	-78.07	-65.84	7.32	13.13	Н
	7630.4	-55.28	-13	-42.28	-77.53	-58.44	8.38	11.54	Н
	3815.2	-61.80	-13	-48.80	-76.66	-68.54	5.88	12.62	V
	5722.8	-59.84	-13	-46.84	-77.97	-65.65	7.32	13.13	V
	7630.4	-55.71	-13	-42.71	-77.77	-58.87	8.38	11.54	V

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

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WCDMA Band IV(RMC 12.2Kbps)										
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)	
	3424.8	-63.25	-13	-50.25	-75.54	-70.13	5.60	12.48	Н	
	5137.2	-60.52	-13	-47.52	-78.02	-66.20	7.10	12.78	Н	
Lowoot	6849.6	-57.35	-13	-44.35	-77.83	-60.74	8.38	11.77	Н	
Lowest	3424.8	-62.74	-13	-49.74	-75.59	-69.62	5.60	12.48	V	
	5137.2	-60.58	-13	-47.58	-78.02	-66.26	7.10	12.78	V	
	6849.6	-57.80	-13	-44.80	-78.05	-61.19	8.38	11.77	V	
	3465.2	-62.81	-13	-49.81	-75.56	-69.66	5.65	12.50	Н	
	5197.8	-60.36	-13	-47.36	-77.92	-66.03	7.13	12.80	Н	
Middle	6930.4	-57.04	-13	-44.04	-77.89	-60.44	8.40	11.80	Н	
Middle	3465.2	-62.41	-13	-49.41	-75.7	-69.26	5.65	12.50	V	
	5197.8	-60.40	-13	-47.40	-77.91	-66.07	7.13	12.80	V	
	6930.4	-57.01	-13	-44.01	-77.87	-60.41	8.40	11.80	V	
	3505.2	-62.89	-13	-49.89	-76.08	-69.73	5.68	12.52	Н	
	5257.8	-61.03	-13	-48.03	-78.00	-66.70	7.15	12.82	Н	
Highest	7010.4	-56.48	-13	-43.48	-77.67	-59.91	8.42	11.85	Н	
	3505.2	-61.91	-13	-48.91	-75.64	-68.75	5.68	12.52	V	
	5257.8	-60.91	-13	-47.91	-77.84	-66.58	7.15	12.82	V	
	7010.4	-56.31	-13	-43.31	-77.7	-59.74	8.42	11.85	V	

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

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