# **FCC RF Test Report**

APPLICANT : CASTLES TECHNOLOGY CO., LTD.

EQUIPMENT : Smart Module

BRAND NAME : CASTLES
TECHNOLOGY

MODEL NAME : CWM100

FCC ID : WIYCWM100001

STANDARD : 47 CFR Part 22(H), 24(E), 27(L)

CLASSIFICATION : PCS Licensed Transmitter (PCB)

TEST DATE(S) : Dec. 13, 2024 ~ Dec. 16, 2024

We, Sporton International Inc. (Kunshan), 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. (Kunshan), the test report shall not be reproduced except in full.

JasonJia

Approved by: Jason Jia





Report No.: FG4N0518A

Sporton International Inc. (Kunshan)

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

Sporton International Inc. (Kunshan)

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## **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG4N0518A	Rev. 01	Initial issue of report	Jan. 06, 2025

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## **SUMMARY OF TEST RESULT**

Report Section	FCC Rule	Description	Limit	Result	Remark
	§2.1046	Conducted Output Power	-	Report Only	-
	§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	2 12 43±1010d10(PI\\\aftsi\) P		Under limit 20.02 dB at 9390.00 MHz

#### **Conformity Assessment Condition:**

#### Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

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The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits
or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of
non-compliance that may potentially occur if measurement uncertainty is taken into account.

<sup>2.</sup> The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

## 1 General Description

## 1.1 Applicant

#### **CASTLES TECHNOLOGY CO., LTD.**

6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT, NEW TAIPEI CITY 231030, TAIWAN (R.O.C.)

### 1.2 Manufacturer

#### **CASTLES TECHNOLOGY CO., LTD.**

6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT, NEW TAIPEI CITY 231030, TAIWAN (R.O.C.)

## 1.3 Product Feature of Equipment Under Test

Product Feature				
Equipment Smart Module				
Brand Name	CASTLES TECHNOLOGY			
Model Name CWM100				
FCC ID WIYCWM100001				
SN	Conducted: 219b107d Radiation: 209b11f9			
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:				
Dy Fraguency	Band V:	869 MHz ~ 894 MHz			
Rx Frequency	Band II:	1930 MHz ~ 1990 MHz			
	Band IV:	2110 MHz ~ 2155 MHz			
	WCDMA:				
Maximum Quitnut Dawar to Antonna	Band V:	23.80 dBm			
Maximum Output Power to Antenna	Band II:	23.39 dBm			
	Band IV:	23.52 dBm			
Antenna Type	PIFA Anten	na			

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	Cellular Band: 4.5 dBi PCS Band: 4.0 dBi AWS Band: 3.8 dBi
Type of Modulation	WCDMA: BPSK (Uplink) HSDPA/DC-HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink) HSPA+: 16QAM DC-HSDPA: 64QAM

### 1.5 Modification of EUT

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

## 1.6 Maximum Conducted Power, and Emission Designator

FCC Rule	Frequency Band	Frequency Range (MHz)	Type of Modulation	Maximum Conducted power (W)	Emission Designator
Part 22	WCDMA Band V	826.4 ~ 846.6	BPSK	0.2399	4M12F9W
Part 24	WCDMA Band II	1852.4 ~ 1907.6	BPSK	0.2183	4M12F9W
Part 27	WCDMA Band IV	1712.4 ~ 1752.6	BPSK	0.2249	4M12F9W

## 1.7 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)					
	No. 1098, Pengxi North Road, Kunshan Economic Development Zone					
Test Site Location	Jiangsu Province 215300 People's Republic of China					
	TEL: +86-512-57900158					
	Sporton Site No.	FCC Designation No.	FCC Test Firm			
Test Site No.	Sporton Site No.	FCC Designation No.	Registration No.			
	03CH04-KS TH01-KS	CN1257	314309			

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#### 1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	ISPORTON	Part2224_Ver5.0 200330	5.0
2.	03CH04-KS	AUDIX	E3	210616

## 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 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.
- 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 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:

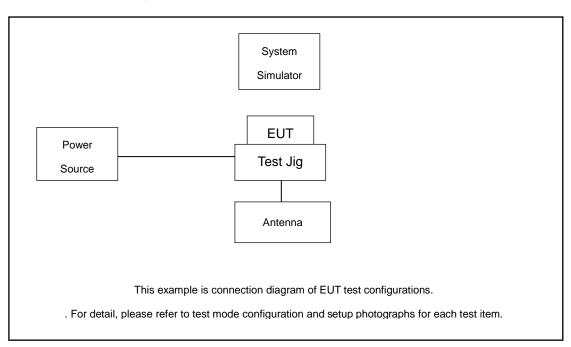
- 1. 30 MHz to 9000 MHz for WCDMA Band V.
- 2. 30 MHz to 18000 MHz for WCDMA Band IV.
- 3. 30 MHz to 19100 MHz for WCDMA Band II.

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



The EUT has been configuration operated in a manner tended to maximize its emission characteristics in a typical application.

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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.	Test Jig	N/A	N/A	N/A	N/A	N/A
3.	Antenna	N/A	N/A	N/A	N/A	N/A
4.	Adapter	N/A	N/A	N/A	N/A	N/A
5.	USB Cable	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 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 4.8 dB and a 10dB attenuator.

#### Example:

Offset(dB) = RF cable loss(dB) + attenuator factor(dB). = 4.8 + 10 = 14.8 (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	Channel	1312	1413	1513			
Band IV	Frequency	1712.4	1732.6	1752.6			

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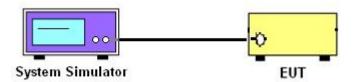
### 3 Conducted Test Result

## 3.1 Measuring Instruments

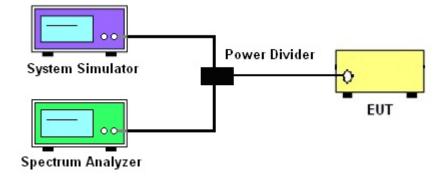
See list of measuring instruments of this test report.

### 3.2 Test Setup

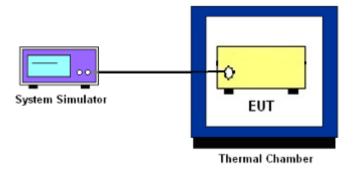
### 3.2.1 Conducted Output Power



# 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
- 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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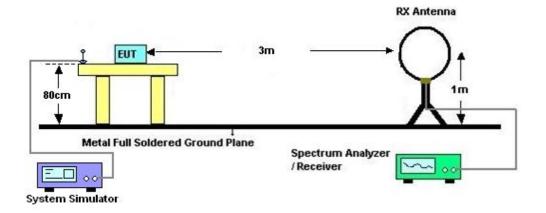
## 4 Radiated Test Items

## 4.1 Measuring Instruments

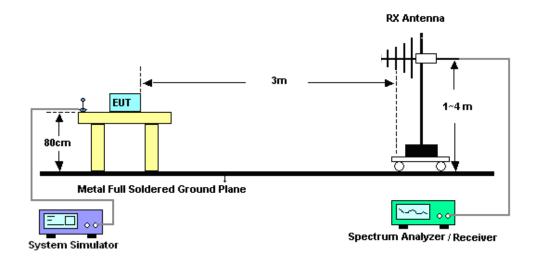
See list of measuring instruments of this test report.

## 4.2 Test Setup

#### 4.2.1 For radiated test below 30MHz



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

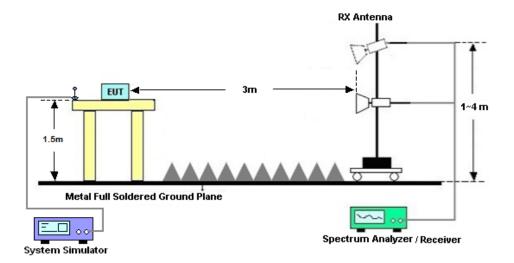


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#### 4.2.3 For radiated test above 1GHz



### 4.3 Test Result of Radiated Test

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

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	101040	10Hz~40GHz	Oct. 10, 2024	Dec. 13, 2024	Oct. 09, 2025	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	NCR	Dec. 13, 2024	NCR	Conducted (TH01-KS)
Temperature &h umidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 04, 2024	Dec. 13, 2024	Jul. 03, 2025	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44G,MAX 30dB	Oct. 11, 2024	Dec. 16, 2024	Oct. 10, 2025	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Dec. 05, 2024	Dec. 16, 2024	Dec. 04, 2025	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Dec. 16, 2024	Sep. 07, 2025	Radiation (03CH04-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00227860	1GHz~18GHz	Aug. 16, 2024	Dec. 16, 2024	Aug. 15, 2025	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 27, 2024	Dec. 16, 2024	Jan. 26, 2025	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	413740	9KHz-1GHz	Jan. 03, 2024	Dec. 16, 2024	Jan. 02, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM18G40G A	060728	18~40GHz	Jan. 02, 2024	Dec. 16, 2024	Jan. 01, 2025	Radiation (03CH04-KS)
high gain Amplifier	EM	EM01G18G A	060840	1Ghz-18Ghz	Oct. 09, 2024	Dec. 16, 2024	Oct. 08, 2025	Radiation (03CH04-KS)
Amplifier	EM	EM01G18G A	060892	1Ghz-18Ghz	Oct. 09, 2024	Dec. 16, 2024	Oct. 08, 2025	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Dec. 16, 2024	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Dec. 16, 2024	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Dec. 16, 2024	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

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## 6 Measurement Uncertainty

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 Conducted Measurement**

Conducted Spurious Emission & Bandedge	±2.22 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.50 dB
Peak to Average Ratio	±0.46 dB
Frequency Stability	±0.4 Hz

#### **Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)**

Measuring Uncertainty for a Level of	2 204B
Confidence of 95% (U = 2Uc(y))	3.30dB

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

Measuring Uncertainty for a Level of	2.83dB
Confidence of 95% (U = 2Uc(y))	2.03UB

#### <u>Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)</u>

Measuring Uncertainty for a Level of	2.83dB
Confidence of 95% (U = 2Uc(y))	2.0300

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

Measuring Uncertainty for a Level of	2.82dB
Confidence of 95% (U = 2Uc(y))	2.0200

----- THE END -----

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

Test Engineer :	Smile Wong	Temperature :	22~23°C
	Smile Wang	Relative Humidity :	40~42%

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## Conducted Output Power(Average power) and ERP/EIRP

	Band		WCDMA V				
TX Channel		4132	4182	4233	ERP(W)		
Rx Channel		4357	4407	4458			
	Frequency (MHz)	826.4	836.4	846.6	L	M	Н
3GPP Rel 99	RMC 12.2Kbps	23.80	23.75	23.76	0.4121	0.4074	0.4083
3GPP Rel 6	HSDPA Subtest-1	23.36	23.46	23.38	0.3724	0.3811	0.3741
3GPP Rel 6	HSDPA Subtest-2	23.33	23.39	23.21	0.3698	0.3750	0.3597
3GPP Rel 6	HSDPA Subtest-3	23.29	23.41	23.31	0.3664	0.3767	0.3681
3GPP Rel 6	HSDPA Subtest-4	23.34	23.39	23.24	0.3707	0.3750	0.3622
3GPP Rel 8	DC-HSDPA Subtest-1	23.31	23.22	23.19	0.3681	0.3606	0.3581
3GPP Rel 8	DC-HSDPA Subtest-2	23.28	23.15	23.28	0.3656	0.3548	0.3656
3GPP Rel 8	DC-HSDPA Subtest-3	23.36	23.27	23.17	0.3724	0.3648	0.3565
3GPP Rel 8	DC-HSDPA Subtest-4	23.33	23.32	23.29	0.3698	0.3690	0.3664
3GPP Rel 6	HSUPA Subtest-1	23.24	23.06	23.32	0.3622	0.3475	0.3690
3GPP Rel 6	HSUPA Subtest-2	23.36	23.29	23.17	0.3724	0.3664	0.3565
3GPP Rel 6	HSUPA Subtest-3	23.19	23.13	23.28	0.3581	0.3532	0.3656
3GPP Rel 6	HSUPA Subtest-4	23.34	23.21	23.36	0.3707	0.3597	0.3724
3GPP Rel 6	HSUPA Subtest-5	23.39	23.14	23.25	0.3750	0.3540	0.3631
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	23.41	23.26	23.35	0.3767	0.3639	0.3715

	Band		WCDMA IV				
	TX Channel	1312	1413	1513		EIRP(W)	
Rx Channel		1537	1638	1738			
ı	Frequency (MHz)		1732.6	1752.6	L	M	Н
3GPP Rel 99	RMC 12.2Kbps	23.41	23.51	23.52	0.5260	0.5383	0.5395
3GPP Rel 6	HSDPA Subtest-1	23.11	23.17	23.13	0.4909	0.4977	0.4932
3GPP Rel 6	HSDPA Subtest-2	23.01	23.14	23.14	0.4797	0.4943	0.4943
3GPP Rel 6	HSDPA Subtest-3	23.07	23.06	23.09	0.4864	0.4853	0.4887
3GPP Rel 6	HSDPA Subtest-4	22.95	22.95	23.05	0.4732	0.4732	0.4842
3GPP Rel 8	DC-HSDPA Subtest-1	23.00	23.09	23.12	0.4786	0.4887	0.4920
3GPP Rel 8	DC-HSDPA Subtest-2	22.91	22.98	23.00	0.4688	0.4764	0.4786
3GPP Rel 8	DC-HSDPA Subtest-3	22.70	23.03	23.19	0.4467	0.4819	0.5000
3GPP Rel 8	DC-HSDPA Subtest-4	23.03	22.70	23.18	0.4819	0.4467	0.4989
3GPP Rel 6	HSUPA Subtest-1	23.16	23.03	23.09	0.4966	0.4819	0.4887
3GPP Rel 6	HSUPA Subtest-2	22.88	23.12	23.11	0.4656	0.4920	0.4909
3GPP Rel 6	HSUPA Subtest-3	22.95	22.79	23.02	0.4732	0.4560	0.4808
3GPP Rel 6	HSUPA Subtest-4	22.77	22.88	23.05	0.4539	0.4656	0.4842
3GPP Rel 6	HSUPA Subtest-5	22.92	22.81	22.98	0.4699	0.4581	0.4764
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	22.89	22.99	22.94	0.4667	0.4775	0.4721

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WCDMA II Band TX Channel 9262 9400 9538 EIRP(W) **Rx Channel** 9662 9800 9938 1852.4 Frequency (MHz) 1880 1907.6 3GPP Rel 99 RMC 12.2Kbps 23.39 23.36 23.30 0.5483 0.5445 0.5370 3GPP Rel 6 **HSDPA Subtest-1** 22.92 22.89 22.83 0.4920 0.4887 0.4819 3GPP Rel 6 **HSDPA Subtest-2** 23.01 22.98 22.88 0.5023 0.4989 0.4875 3GPP Rel 6 **HSDPA Subtest-3** 22.89 22.86 22.96 0.4887 0.4853 0.4966 23.02 22.97 0.5035 0.4989 0.4977 3GPP Rel 6 **HSDPA Subtest-4** 22.98 3GPP Rel 8 DC-HSDPA Subtest-1 22.87 22.83 23.05 0.4864 0.4819 0.5070 3GPP Rel 8 DC-HSDPA Subtest-2 22.95 22.91 22.85 0.4955 0.4909 0.4842 22.76 0.4920 0.4920 0.4742 3GPP Rel 8 DC-HSDPA Subtest-3 22.92 22.92 3GPP Rel 8 DC-HSDPA Subtest-4 23.04 23.00 22.96 0.5058 0.5012 0.4966 3GPP Rel 6 **HSUPA Subtest-1** 22.84 22.80 22.86 0.4831 0.4786 0.4853 0.4688 0.4797 3GPP Rel 6 **HSUPA Subtest-2** 22.75 22.71 22.81 0.4732 3GPP Rel 6 **HSUPA Subtest-3** 0.4943 0.4909 0.4932 22.94 22.91 22.93 3GPP Rel 6 **HSUPA Subtest-4** 22.76 22.81 22.81 0.4742 0.4797 0.4797 3GPP Rel 6 **HSUPA Subtest-5** 22.79 22.76 23.04 0.4775 0.4742 0.5058 3GPP Rel 7 HSPA+ (16QAM) Subtest-1 22.87 22.88 22.88 0.4864 0.4875 0.4875

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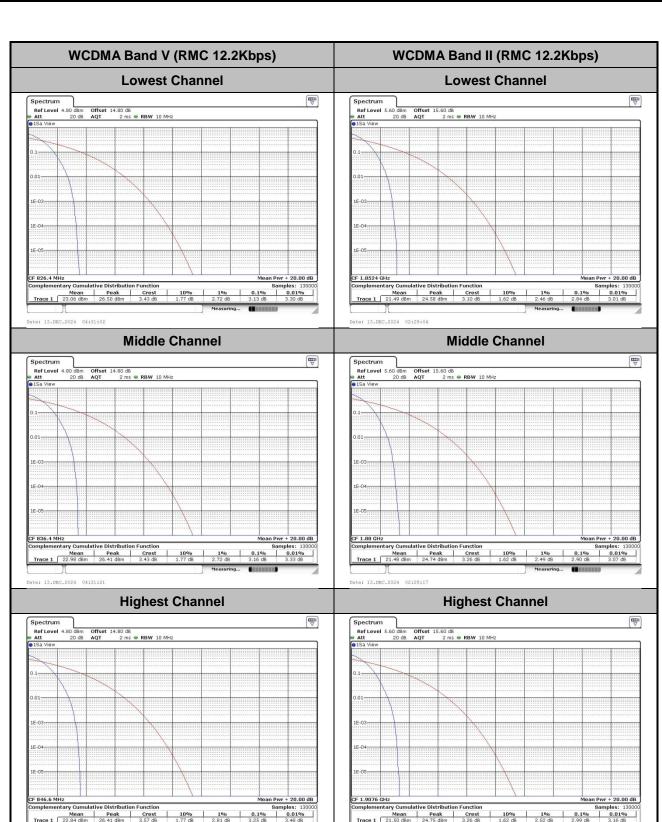
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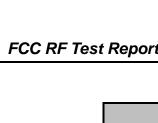
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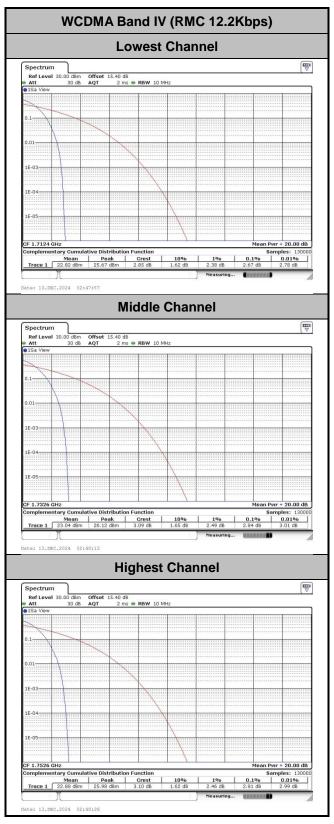
Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	3.13	2.84	2.67	
Middle CH	3.16	2.90	2.84	PASS
Highest CH	3.25	2.99	2.81	

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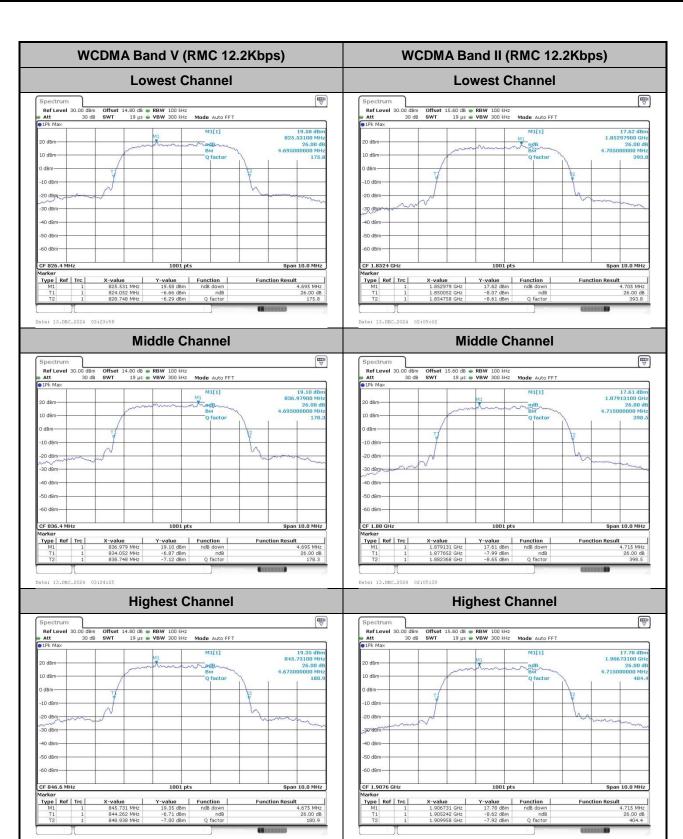
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## 26dB Bandwidth

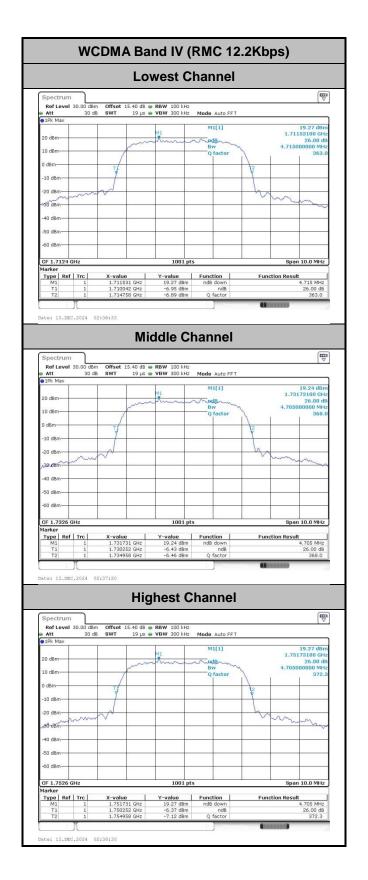
Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.70	4.71	4.72
Middle CH	4.70	4.72	4.71
Highest CH	4.68	4.72	4.71

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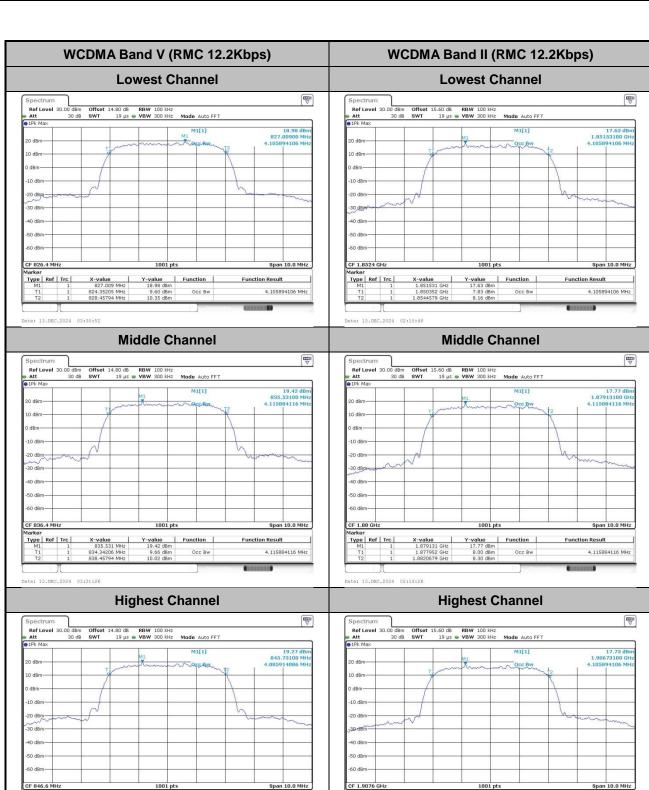
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# Occupied Bandwidth

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.11	4.11	4.11
Middle CH	4.12	4.12	4.11
Highest CH	4.09	4.11	4.12

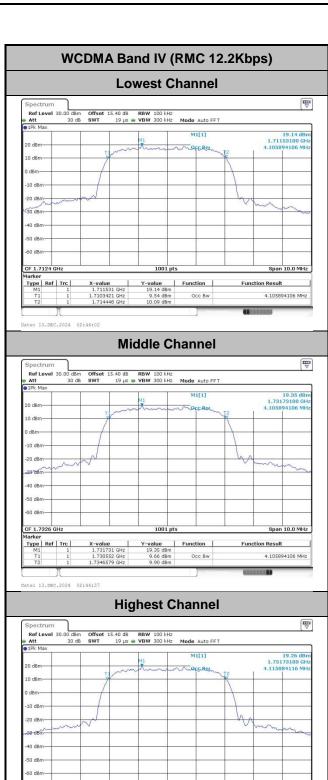
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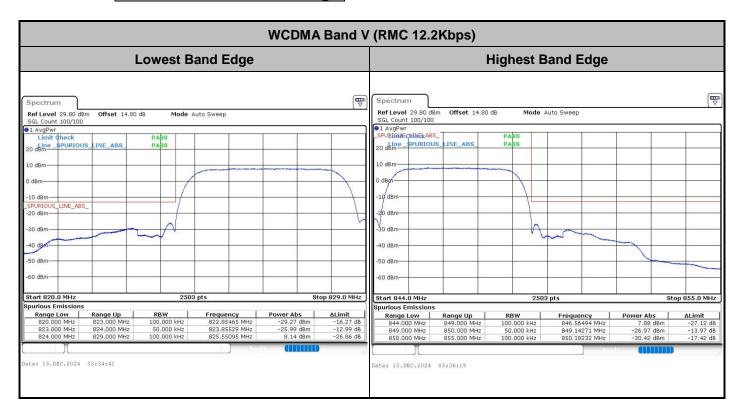
Occ Bw

TEL: +86-512-57900158 FCC ID: WIYCWM100001 Occ Bw



Type | Ref | Trc |

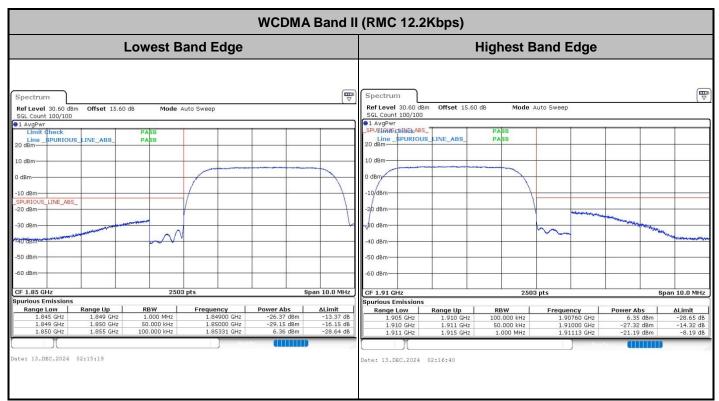
## **Conducted Band Edge**

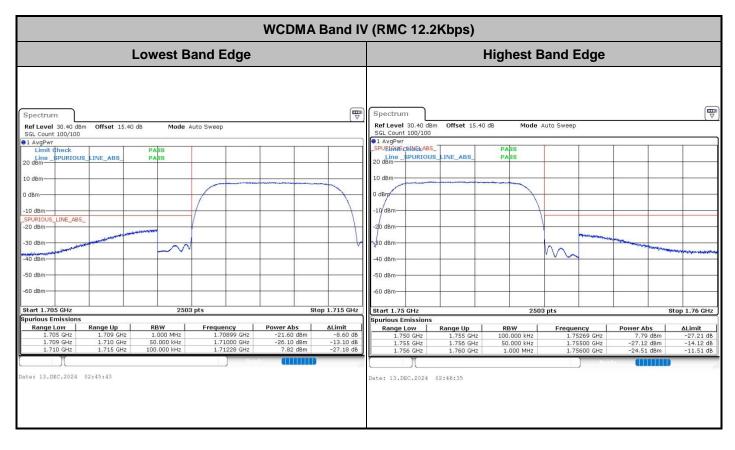


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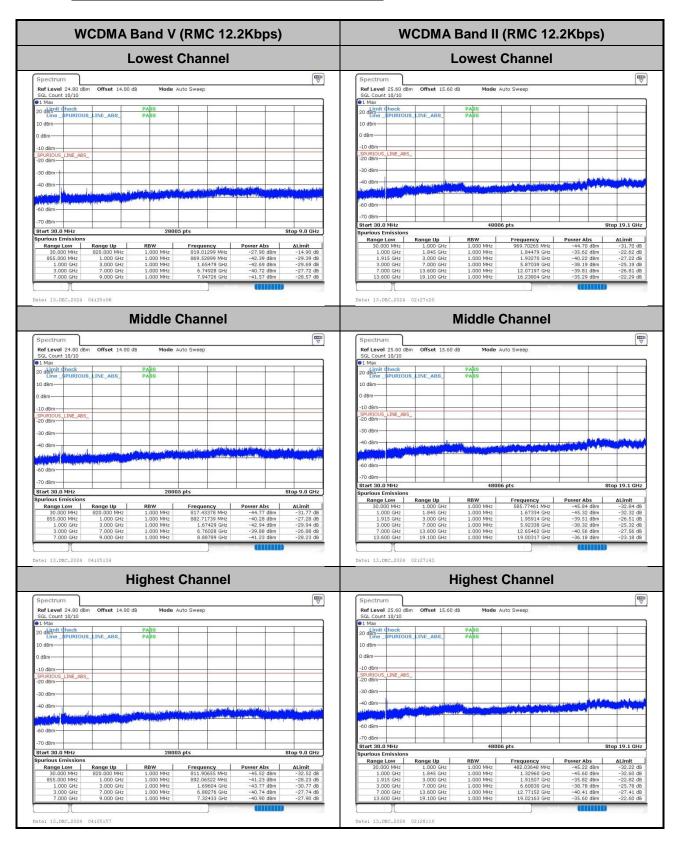
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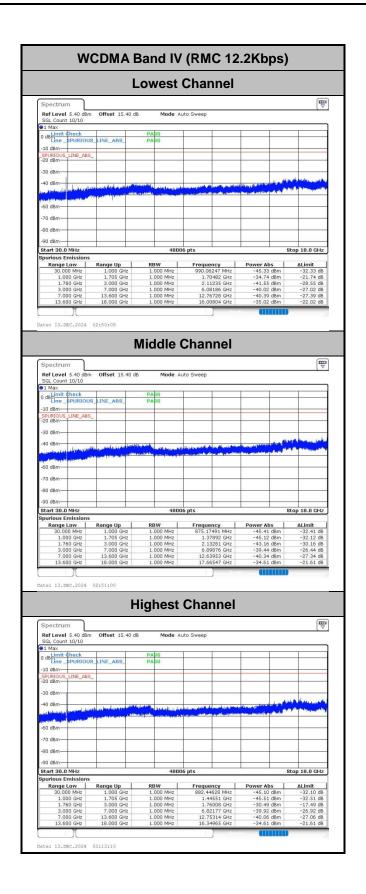


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## **Conducted Spurious Emission**



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# Frequency Stability

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0025	
40	Normal Voltage	0.0035	
30	Normal Voltage	0.0182	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0369	
-10	Normal Voltage	0.0020	PASS
-20	Normal Voltage	0.0149	
-30	Normal Voltage	0.0319	
20	Maximum Voltage	0.0450	
20	Normal Voltage	0.0195	
20	Minimum Voltage	0.0523	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)		
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result	
50	Normal Voltage	0.0268		
40	Normal Voltage	0.0395		
30	Normal Voltage	0.0152		
20(Ref.)	Normal Voltage	0.0000		
10	Normal Voltage	0.0128		
0	Normal Voltage	0.0357		
-10	Normal Voltage	0.0302	PASS	
-20	Normal Voltage	0.0182		
-30	Normal Voltage	0.0139		
20	Maximum Voltage	0.0129		
20	Normal Voltage	0.0281		
20	Minimum Voltage	0.0095		

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Test Conditions Middle Channel		WCDMA Band IV (RMC 12.2Kbps)		
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result	
50	Normal Voltage	0.0152		
40	Normal Voltage	0.0295		
30	Normal Voltage	0.0010		
20(Ref.)	Normal Voltage	0.0000		
10	Normal Voltage	0.0152		
0	Normal Voltage	0.0381		
-10	Normal Voltage	0.0261	PASS	
-20	Normal Voltage	0.0390		
-30	Normal Voltage	0.0185		
20	Maximum Voltage	0.0209		
20	Normal Voltage	0.0138		
20	Minimum Voltage	0.0258		

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#### Note:

- 1. Normal Voltage = 3.8V ; Minimum Voltage =3.2V. ; Maximum Voltage =4.75V
- **2.** The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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

## **Radiated Spurious Emission**

Test Engineer :	Bruce	Temperature :	23~25°C
rest Engineer.		Relative Humidity :	41~42%

WCDMA Band V(RMC 12.2Kbps)								
Channel	Frequency ( MHz )	ERP (dBm)	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
	1656	-63.68	-13	-50.68	-70.65	1.58	10.70	Н
	2480	-58.91	-13	-45.91	-67.16	2.102	12.50	Η
Lowest	3304	-59.02	-13	-46.02	-67.91	2.856	13.90	Н
Lowest	1656	-58.08	-13	-45.08	-65.05	1.58	10.70	V
	2480	-56.43	-13	-43.43	-64.68	2.10	12.50	V
	3304	-59.36	-13	-46.36	-68.25	2.86	13.90	V
	1672	-61.21	-13	-48.21	-68.18	1.58	10.70	Н
	2512	-58.07	-13	-45.07	-66.32	2.102	12.50	Н
NA: al all a	3344	-58.95	-13	-45.95	-67.84	2.856	13.90	Н
Middle	1672	-56.82	-13	-43.82	-63.79	1.58	10.70	V
	2512	-52.90	-13	-39.90	-61.15	2.10	12.50	V
	3344	-58.55	-13	-45.55	-67.44	2.86	13.90	V
	1696	-61.72	-13	-48.72	-68.69	1.58	10.70	Н
Highest	2536	-60.03	-13	-47.03	-68.28	2.102	12.50	Н
	3384	-59.15	-13	-46.15	-68.04	2.856	13.90	Н
	1696	-58.14	-13	-45.14	-65.11	1.58	10.70	V
	2536	-56.43	-13	-43.43	-64.68	2.10	12.50	V
	3384	-59.52	-13	-46.52	-68.41	2.86	13.90	V

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

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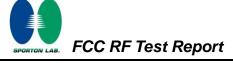


WCDMA Band II(RMC 12.2Kbps)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit ( dBm )	Over Limit ( dB )	S.G. Power (dBm)	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
	3705	-46.30	-13	-33.30	-58.56	2.64	14.90	Н
	5550	-43.68	-13	-30.68	-55.54	2.94	14.80	Н
	7410	-35.18	-13	-22.18	-44.95	3.39	13.16	Н
Lowest	9255	-36.33	-13	-23.33	-46.81	4.00	14.48	Н
Lowest	3705	-50.89	-13	-37.89	-63.15	2.64	14.90	V
	5550	-51.12	-13	-38.12	-62.98	2.94	14.80	V
	7410	-48.65	-13	-35.65	-58.42	3.39	13.16	V
	9255	-48.98	-13	-35.98	-59.46	4.00	14.48	V
	3765	-45.99	-13	-32.99	-58.25	2.64	14.90	Н
	5640	-39.92	-13	-26.92	-51.78	2.94	14.80	Н
	7515	-35.26	-13	-22.26	-45.03	3.39	13.16	Н
Middle	9390	-33.02	-13	-20.02	-43.50	4.00	14.48	Н
Middle	3765	-49.95	-13	-36.95	-62.21	2.64	14.90	V
	5640	-49.56	-13	-36.56	-61.42	2.94	14.80	V
	7515	-47.98	-13	-34.98	-57.75	3.39	13.16	V
	9390	-46.88	-13	-33.88	-57.36	4.00	14.48	V
	3810	-45.60	-13	-32.60	-57.86	2.64	14.90	Н
Highest	5715	-39.12	-13	-26.12	-50.98	2.94	14.80	Н
	7620	-38.97	-13	-25.97	-48.74	3.39	13.16	Н
	9540	-36.21	-13	-23.21	-46.69	4.00	14.48	Н
	3810	-51.96	-13	-38.96	-64.22	2.64	14.90	V
	5715	-49.61	-13	-36.61	-61.47	2.94	14.80	V
	7620	-50.41	-13	-37.41	-60.18	3.39	13.16	V
	9540	-48.27	-13	-35.27	-58.75	4.00	14.48	V

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

Sporton International Inc. (Kunshan)

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WCDMA Band IV(RMC 12.2Kbps) TX Cable **TX Antenna** Over S.G. **EIRP Polarization** Frequency Limit Channel Limit Power loss Gain (MHz) (dBm) (dBm) (H/V)(dB) (dBm) (dB) (dBi) 13.34 Н 3420 -51.56 -13 -38.56 -62.30 2.604 5130 -51.91 -13 -38.91 3.011 13.52 -62.42Н 6855 -34.25 -13 -21.25 3.271 13.47 -44.45 Η -42.00 -13 -29.00 -48.97 12.5 Η 8565 5.527 Lowest ٧ -5<u>3.79</u> -13 -40.79 13.34 3420 -64.53 2.604 ٧ 5130 -55.60 -13 -42.60 -66.11 3.011 13.52 6855 -49.70 -13 -36.70 -59.90 3.271 13.47 ٧ -52.08 -13 -39.08 12.50 ٧ 8565 -59.05 5.527 Н 3465 -51.98 -13 -38.98 -62.722.604 13.34 5190 -50.41 -13 -37.41 -60.92 3.011 13.52 Η 6930 -36.18 -13 -23.18 -46.38 3.271 13.47 Η 8670 -43.64 -13 -30.64 -50.61 5.527 12.5 Н Middle ٧ -13 -41.80 3465 -54.80 -65.54 2.604 13.34 5190 -13 -42.80 3.011 ٧ -55.80 -66.31 13.52 ٧ 6930 -51.24 -13 -38.24-61.44 3.271 13.47 -13 12.50 ٧ 8670 -52.72 -39.72 -59.69 5.527 3510 -46.52 -13 -33.52 -57.26 2.604 13.34 Н 5250 -49.29 -13 -36.29 -59.80 3.011 13.52 Н -34.99 7005 -13 -21.99 3.271 13.47 -45.19 Η -37.31 -13 -24.31 -44.28 5.527 12.5 Η 8760 Highest ٧ 3510 -51.18 -13 -38.18 -61.92 2.604 13.34 -43.23 13.52 5250 -56.23 -13 -66.74 3.011 ٧ 7005 -51.00 -13 -38.00 -61.20 3.271 13.47 ٧ ٧ 8760 -50.28 -13 -37.28 12.50 -57.25 5.527

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

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