

FCC 47 CFR PART 15 SUBPART C CERTIFICATION TEST REPORT

For

Remix Ultra-Tablet

MODEL No.: SK1-W

FCC ID: 2AEBN-SK1W

Trademark: jide

REPORT NO.: ES150126260E2

ISSUE DATE: March 10, 2015

Prepared for

Beijing Jide Technology Co., Ltd

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Prepared by

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Report No.: ES150126260E2 Ver.1.0



1 TEST RESULT CERTIFICATION

Applicant:	Beijing Jide Technology Co., Ltd 3rd Floor, Jiahua Building, No.133 North Fourth Ring Road, Chaoyang District, Beijing, China
Manufacturer:	Beijing Jide Technology Co., Ltd 3rd Floor, Jiahua Building, No.133 North Fourth Ring Road, Chaoyang District, Beijing, China
Product Description:	Remix Ultra-Tablet
Model Number:	SK1-W
File Number:	ES150126260E2
Date of Test:	February 25, 2015 to March 10, 2015

Measurement Procedure Used:

APPLICABLE STANDARDS			
STANDARD TEST RESULT			
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C	PASS		

The above equipment was tested by SHENZHEN EMTEK CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 2 and Part 15.247

The test results of this report relate only to the tested sample identified in this report

Date of Test :	February 25, 2015 to March 10, 2015		
Prepared by :	Joe Xia		
	Joe Xia /Editor		
Reviewer:	Jack LT		
	Jack Li /Supervisor		
Approve & Authorized Signer :	2005		
	Lisa Wang /Manager		



2 EUT TECHNICAL DESCRIPTION

Characteristics	Description			
Device Type	Bluetooth 3.0 with classic model			
Data Rate	1Mbps for BT v2.0/v2.1/v3.0 BR GFSK modulation 2Mbps for BT v2.0/v2.1/v3.0 EDR pi/4-DQPSK modulation 3Mbps for BT v2.0/v2.1/v3.0 EDR 8DPSK modulation			
Modulation:	GFSK modulation for BT v2.0/v2.1/v3.0 BR(1Mbps) pi/4-DQPSK modulation for BT v2.0/v2.1/v3.0 EDR(2Mbps) 8DPSK modulation for BT v2.0/v2.1/v3.0 EDR (3Mbps)			
Operating Frequency Range(s):	2402-2480MHz for BT v2.0 BR /2.0+EDR; 2402-2480MHz for BT v2.1 BR /2.1+EDR; 2402-2480MHz for BT v3.0 BR /3.0+ EDR;			
Number of Channels:	79 channels for BT v2.0/v2.1/v3.0 BR; 79 channels for BT v2.0/v2.1/v3.0 EDR;			
Transmit Power Max:	-0.067dBm for BT v2.0/v2.1/v3.0 EDR; 1.314dBm for BT v2.0/v2.1/v3.0 BR;			
Antenna Type :	Ceramic Chip Antenna			
Antenna Gain:	1.4dBi;			
	☑DC supply: DC 3.8/8100mAh, 30.78Wh from Li-ion Battery			
Power supply:	⊠Adapter supply: Model: KSA30C1200200HU INPUT: 100-240~50/60Hz 0.6A OUTPUT: 12V/2.0A			



Characteristics	Description
Device Type	Bluetooth 4.0 with BLE model
Data Rate	1Mbps;
Modulation	GFSK;
Operating Frequency Range	2402-2480MHz
Number of Channels	40 Channels
Transmit Power Max	0.732dBm for BT;
Antenna Type	Ceramic Chip Antenna
Antenna Gain	1.4dBi
	☑DC supply: DC 3.8/8100mAh, 30.78Wh from Li-ion Battery
Power supply	Adapter supply: Model: KSA30C1200200HU INPUT: 100-240~50/60Hz 0.6A OUTPUT: 12V/2.0A



Characteristics	Description		
Device Type	Wifi 2.4G Device		
IEEE 802.11 WLAN Mode Supported	 ⊠802.11b(20MHz bandwidth) ⊠802.11g(20MHz bandwidth) ⊠802.11n(20MHz bandwidth) ⊠802.11n(40MHz bandwidth) 		
Data Rate			
MIMO Mode	N/A		
Modulation	DSSS with DBPSK/DQPSK/CCK for 802.11b OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n		
Operating Frequency Range			
Number of Channels	☐ 11 channels for 802.11b/g☐ 11 channels for 802.11n(HT20)☐ 7 channels for 802.11n(HT40)		
Transmit Power Max	18.42dBm for 802.11b 16.78dBm for 802.11g 15.55dBm for 802.11/n(HT20) 13.37dBm for 802.11/n(HT40)		
Antenna Type	Ceramic Chip Antenna		
Smart system	⊠SISO for 802.11b/g/n ☐MIMO for 802.11n		
Antenna Gain	1.4dBi		
	☑DC supply: DC 3.8/8100mAh, 30.78Wh from Li-ion Battery		
Power supply	⊠Adapter supply: Model: KSA30C1200200HU INPUT: 100-240~50/60Hz 0.6A OUTPUT: 12V/2.0A		



Characteristics	Description		
Device Type	Wifi 5.8G Device		
IEEE 802.11 WLAN Mode Supported	⊠802.11a(20MHz channel bandwidth) ⊠802.11n(20MHz channel bandwidth) ⊠802.11n(40MHz channel bandwidth)		
Data Rate	802.11 a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20):MCS0-MCS7; 802.11n(HT40):MCS8-MCS15;		
MIMO Mode	N/A		
Modulation	OFDM with BPSK/QPSK/16QAM/64QAM for 802.11a/n;		
Operating Frequency Range	□5180-5240MHz for 802.11a/n(HT20); □5190-5230MHz for 802.11n(HT40); □5745-5825 MHz for 802.11a/n(HT20); □5755-5795 MHz for 802.11a/n(HT40);		
Number of Channels	□4 channels for 802.11a/(HT20) in the 5180-5240MHz band; □2 channels for 802.11a/(HT40) in the 5190-5230MHz band; □5 channels for 802.11a/(HT20) in the 5745-5825MHz band; □2 channels for 802.11a/(HT40) in the 5755-5795MHz band;		
Transmit Power Max	11.24dBm for 802.11a; 10.65dBm for 802.11/n(HT20); 10.50dBm for 802.11n(HT40);		
Antenna Type	Ceramic Chip Antenna		
Smart system	⊠SISO for 802.11a/n ☐MIMO for 802.11n		
Antenna Gain	2.3dBi		
	☑DC supply: DC 3.8/8100mAh, 30.78Wh from Li-ion Battery		
Power supply	⊠Adapter supply: Model: KSA30C1200200HU INPUT: 100-240~50/60Hz 0.6A OUTPUT: 12V/2.0A		



3 SUMMARY OF TEST RESULT

FCC Part Clause	Test Parameter	Verdict	Remark
15.247(a)(2)	DTS (6dB) Bandwidth	PASS	
15.247(b)(3)	Maximum Peak Conducted Output Power	PASS	
15.247(e)	Maximum Power Spectral Density Level	PASS	
15.247(d)	Unwanted Emission Into Non-Restricted Frequency Bands	PASS	
15.247(d)	Unwanted Emission Into Restricted Frequency Bands	PASS	
15.209	(conducted)	FAGG	
15.247(d)	Radiated Spurious Emission	PASS	
15.209	Tradiated Opunious Emission	1 700	
15.207	Conducted Emission Test	PASS	
15.247(b)	Antenna Application	PASS	

NOTE1: N/A (Not Applicable)

NOTE2: According to FCC OET KDB 558074, the report use radiated measurements in the restricted frequency bands. In addition, the radiated test is also performed to ensure the emissions emanating from the device cabinet also comply with the applicable limits.

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for FCC ID: 2AEBN-SK1W filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.



4 TEST METHODOLOGY

4.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

FCC KDB 558074 D01 DTS Meas Guidance v03r02

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 662911 D02 MIMO With Cross Polarized Antenna V01

4.2 MEASUREMENT EQUIPMENT USED

4.2.1 Conducted Emission Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.
Test Receiver	Rohde & Schwarz	ESCS30	828985/018	05/17/2014
L.I.S.N.	Schwarzbeck	NNLK8129	8129203	05/17/2014
50Ω Coaxial Switch	Anritsu	MP59B	M20531	N/A
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	05/17/2014
Voltage Probe	Rohde & Schwarz	TK9416	N/A	05/17/2014
I.S.N	Rohde & Schwarz	ENY22	1109.9508.02	05/17/2014

4.2.2 Radiated Emission Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	05/17/2014
Pre-Amplifier	HP	8447D	2944A07999	05/17/2014
Bilog Antenna	Schwarzbeck	VULB9163	142	05/17/2014
Loop Antenna	ARA	PLA-1030/B	1029	05/17/2014
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170399	05/17/2014
Horn Antenna	Schwarzbeck	BBHA 9120	D143	05/17/2014
Cable	Schwarzbeck	AK9513	ACRX1	05/17/2014
Cable	Rosenberger	N/A	FP2RX2	05/17/2014
Cable	Schwarzbeck	AK9513	CRPX1	05/17/2014
Cable	Schwarzbeck	AK9513	CRRX2	05/17/2014

4.2.3 Radio Frequency Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.
Spectrum Analyzer	Agilent	E4407B	88156318	05/17/2014
Spectrum Analyzer	Agilent	N9010A	My53470879	05/17/2014
Power meter	Anritsu	ML2495A	0824006	05/17/2014
Power sensor	Anritsu	MA2411B	0738172	05/17/2014

Remark: Each piece of equipment is scheduled for calibration once a year.



4.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (Bluetooth V4.0:1Mbps) were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Frequency and Channel list for Bluetooth V4.0:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)		
0	2402	19	2440				
1	2404	20	2442	37	2476		
2	2406	21	2444	38	2478		
				39	2480		
Note: fc=2402M	Note: fc=2402MHz+k×2MHz k=1 to 39						

Test Frequency and channel for Bluetooth V4.0:

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	19	2440	39	2480



5 FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

Bldg 69, Majialong Industry Zone District, Nanshan District, Shenzhen, China The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

5.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

EMC Lab. : Accredited by CNAS, 2013.10.29

The certificate is valid until 2016.10.28

The Laboratory has been assessed and proved to be in compliance

with CNAS-CL01: 2006(identical to ISO/IEC17025: 2005)

The Certificate Registration Number is L2291

: Accredited by TUV Rheinland Shenzhen, 2010.5.25 The Laboratory has been assessed according to the requirements ISO/IEC 17025.

: Accredited by FCC, April 17, 2014

The Certificate Registration Number is 406365.

: Accredited by FCC, February 28, 2013

The Certificate Registration Number is 709623.

: Accredited by Industry Canada, May 24, 2008 The Certificate Registration Number is 4480A-2



6 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

apparatus.	
Parameter	Uncertainty
Radio Frequency	±1x10^-5
Maximum Peak Output Power Test	±1.0dB
Conducted Emissions Test	±2.0dB
Radiated Emission Test	±2.0dB
Power Density	±2.0dB
Occupied Bandwidth Test	±1.0dB
Band Edge Test	±3dB
All emission, radiated	±3dB
Antenna Port Emission	±3dB
Temperature	±0.5
Humidity	±3%

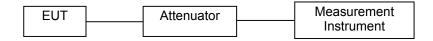
Measurement Uncertainty for a level of Confidence of 95%



7 SETUP OF EQUIPMENT UNDER TEST

7.1 RADIO FREQUENCY TEST SETUP 1

The Bluetooth 4.0 DTS component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



7.2 RADIO FREQUENCY TEST SETUP 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

Above 30MHz:

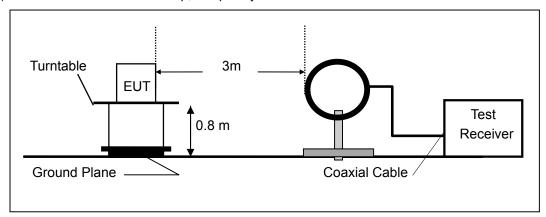
The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

Above 1GHz:

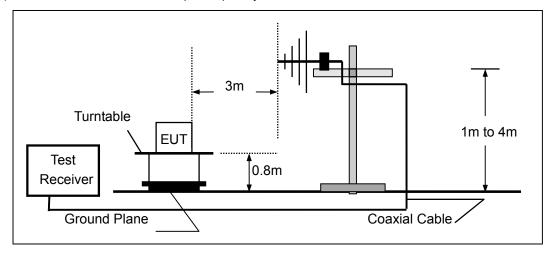
The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).



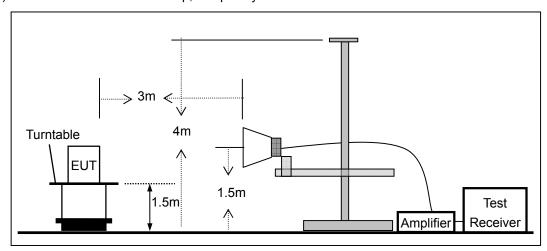
(a) Radiated Emission Test Set-Up, Frequency Below 30MHz



(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(c) Radiated Emission Test Set-Up, Frequency above 1000MHz



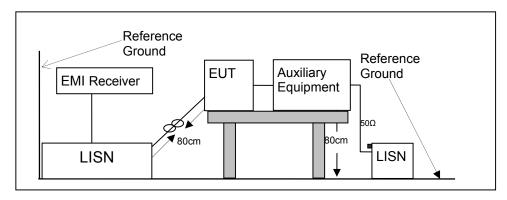


7.3 CONDUCTED EMISSION TEST SETUP

The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

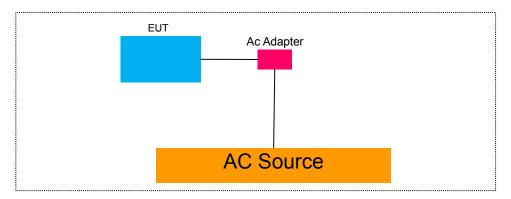
Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.





7.4 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



7.5 SUPPORT EQUIPMENT

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
N/A	N/A	N/A	N/A	N/A	N/A

Notes:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



8 TEST REQUIREMENTS

8.1 DTS (6DB) BANDWIDTH

8.1.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 DTS 01 Meas. Guidance v03r02

8.1.2 Conformance Limit

The minimum -6 dB bandwidth shall be at least 500 kHz.

8.1.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

8.1.4 Test Procedure

The EUT was operating in Bluetooth 4.0DTS mode and controlled its channel. Printed out the test result from the spectrum by hard copy function.

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.

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW = 100 kHz.

Set the video bandwidth (VBW) =300 kHz.

Set Span=2 times OBW

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

Allow the trace to stabilize.

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Measure and record the results in the test report.

Test Results

Temperature :	24	Test Date :	March 1, 2015
Humidity:	53 %	Test By:	King Kong

Operation	Channel	Channel	Measurement Bandwidth	Limit	Verdict
Mode	Number	Frequency (MHz)	(kHz)	(kHz)	verdict
	0	2402	740.254	>500	PASS
GFSK	19	2440	738.508	>500	PASS
	39	2480	739.894	>500	PASS

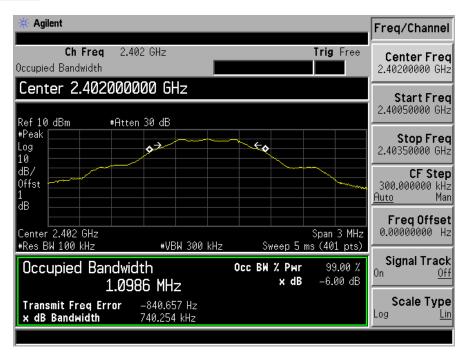


Test Model

DTS (6dB) Bandwidth

GFSK

Channel 0: 2402MHz

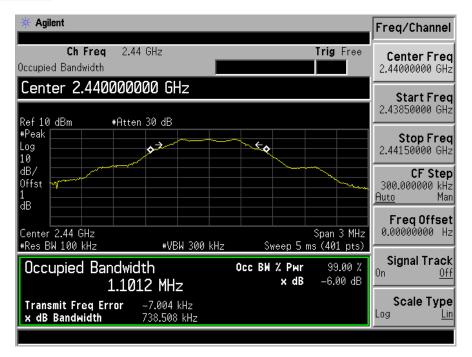


Test Model

DTS (6dB) Bandwidth

GFSK

Channel 19: 2440MHz



Report No.: ES150126260E2 Ver.1.0

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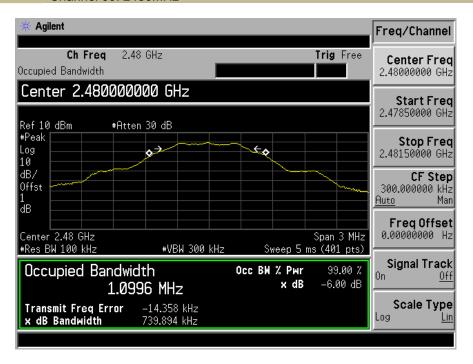


Test Model

DTS (6dB) Bandwidth

odel GFSK

Channel 39: 2480MHz





8.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

8.2.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 DTS 01 Meas. Guidance v03r02

8.2.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm).

8.2.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

8.2.4 Test Procedure

■ According to FCC Part15.247(b)(3)

As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. For smart system, Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Set the RBW DTS bandwidth(about 1MHz). Set VBW = 3*RBW(about 3MHz)

Set the span 3*RBW

Set Sweep time = auto couple.

Set Detector = peak. Set Trace mode = max hold.

Allow trace to fully stabilize. Use peak marker function to determine the peak amplitude level.

■ According to FCC Part 15.247(b)(4):

Conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Results

Temperature:	24	Test Date:	March 1, 2015
Humidity:	53 %	Test By:	King Kong

Operation Mode	Channel Number	Channel Frequency (MHz)	Measurement Level (dBm)	Limit (dBm)	Verdict
	0	2402	0.732	30	PASS
GFSK	19	2440	0.326	30	PASS
	39	2480	0.096	30	PASS

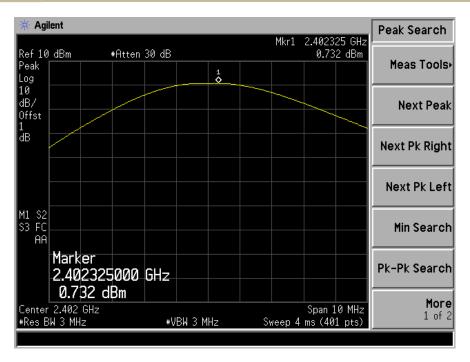


Test Model

Maximum Conducted Output Power

GFSK

Channel 0: 2402MHz

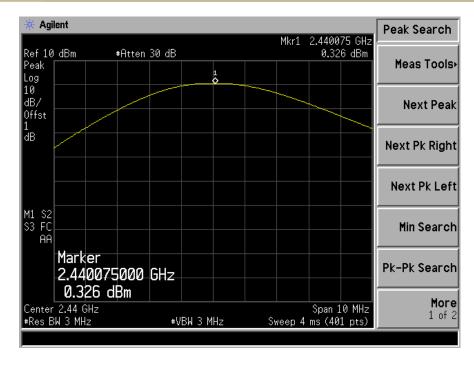


Test Model

Maximum Conducted Output Power

GFSK

Channel 19: 2440MHz



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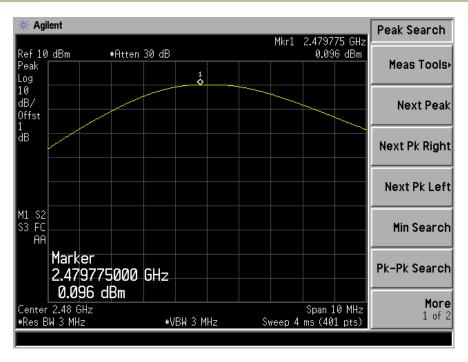


Test Model

Maximum Conducted Output Power

GFSK

Channel 39: 2480MHz





8.3 MAXIMUM POWER SPECTRAL DENSITY

8.3.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 DTS 01 Meas. Guidance v03r02

8.3.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

8.3.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

8.3.4 Test Procedure

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance

The transmitter output (antenna port) was connected to the spectrum analyzer

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to: 3 kHz Set the VBW to: 10 kHz.

Set Detector = peak.

Set Sweep time = auto couple. Set Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level within the RBW.

8.3.5 Test Results

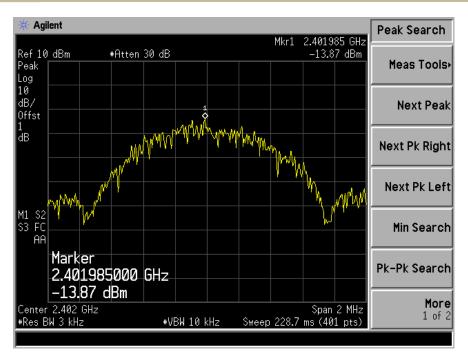
Temperature:	24	Test Date:	March 1, 2015
Humidity:	53 %	Test By:	King Kong

Operation Mode	Channel Number	Channel Frequency (MHz)	Measurement Level (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
	0	2402	-13.87	8	PASS
GFSK	19	2440	-14.43	8	PASS
	39	2480	-14.64	8	PASS
Note: N/A					



Power Spectral Density
Test Model GFSK

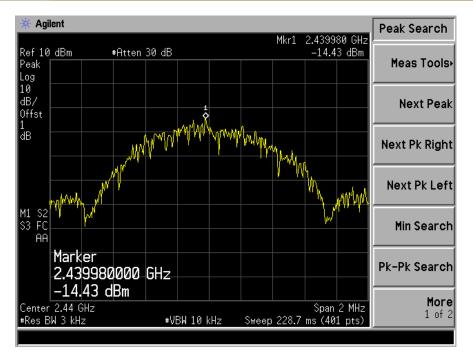
Channel 0: 2402MHz



Test Model

Power Spectral Density GFSK

Channel 19: 2440MHz



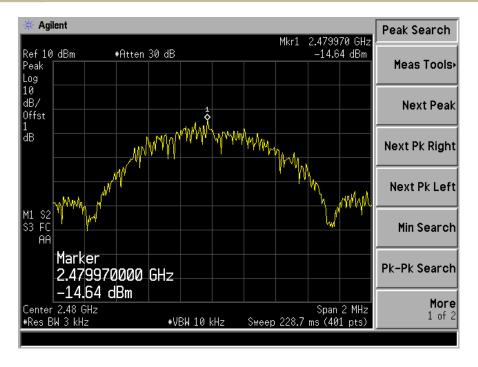
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Power Spectral Density

Test Model GFSK

Channel 39: 2480MHz





8.4 UNWANTED EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS

8.4.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 DTS 01 Meas. Guidance v03r02

8.4.2 Conformance Limit

According to FCC Part 15.247(d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

8.4.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

8.4.4 Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer

■ Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to = 1.5 times the DTS bandwidth.

Set the RBW = 100 kHz.

Set the VBW \geq 3 x RBW.

Set Detector = peak.

Set Sweep time = auto couple.

Set Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

■ Emission level measurement

Set the center frequency and span to encompass frequency range to be measured.

Set the RBW = 100 kHz.

Set the VBW =300 kHz.

Set Detector = peak

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements. Report the three highest emissions relative to the limit.

8.4.5 Test Results

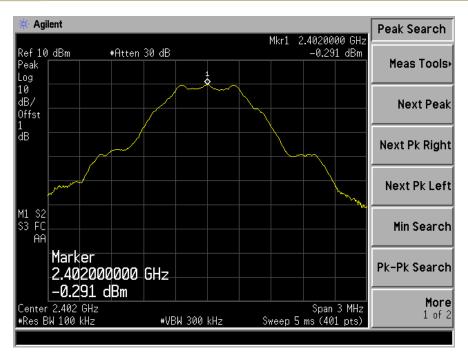


Test Model

PSD(Power Spectral Density) RBW=100kHz

el GFSK

Channel 0: 2402MHz

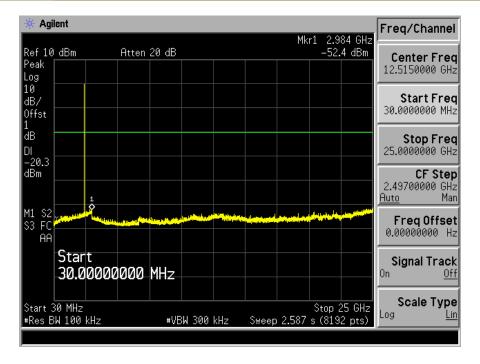


Test Model

Unwanted Emissions in non-restricted frequency bands

GFSK

Channel 0: 2402MHz



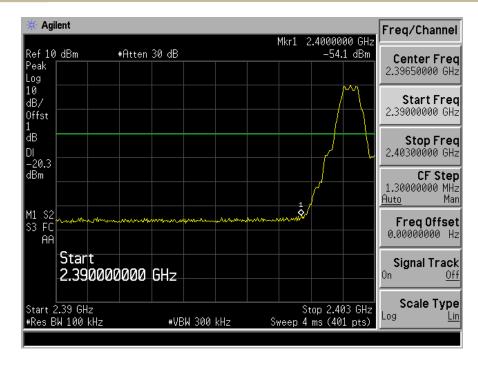
Report No.: ES150126260E2 Ver.1.0

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Test Model Band edge GFSK

Channel 0: 2402MHz



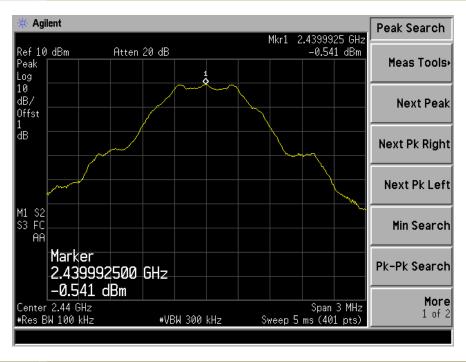


Test Model

PSD(Power Spectral Density) RBW=100kHz

GFSK

Channel 19: 2440MHz

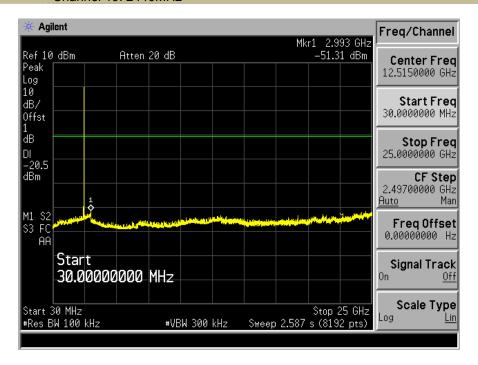


Test Model

Unwanted Emissions In Non-Restricted Frequency Bands

GFSK

Channel 19: 2440MHz

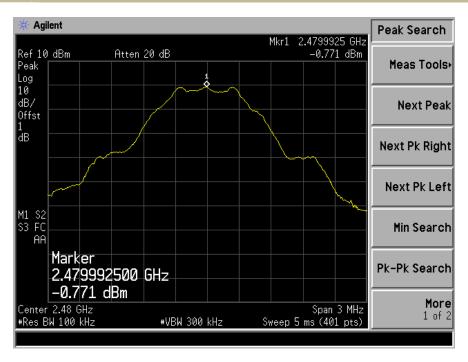




Test Model

PSD(Power Spectral Density) RBW=100kHz GFSK

Channel 19: 2480MHz

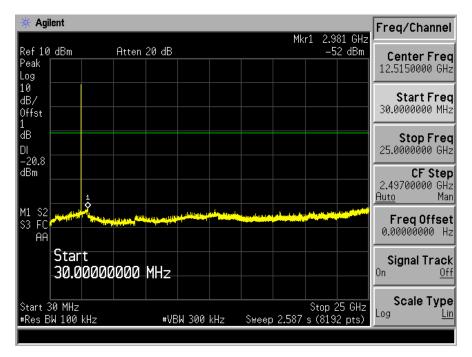


Test Model

Unwanted Emissions In Non-Restricted Frequency Bands

GFSK

Channel 39: 2480MHz



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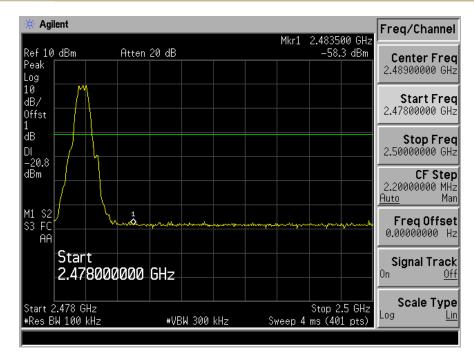
Building 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China www.emtek.com.cn Tel: +86-755-2695 4280 Fax: +86-755-2695 4282



Test Model

Band edge **GFSDK**

Channel 39: 2480MHz



8.5 RADIATED SPURIOUS EMISSION

8.5.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and KDB 558074 DTS 01 Meas. Guidance v03r02

8.5.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to FCC Part15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41		_	

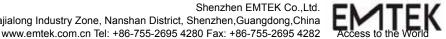
According to FCC Part15.205, the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	2400/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Remark :1. Emission level in dBuV/m=20 log (uV/m)

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. Distance extrapolation factor =40log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz])., the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.



8.5.3 Test Configuration

Test according to clause 7.2 radio frequency test setup 2

8.5.4 **Test Procedure**

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.

Use the following spectrum analyzer settings:

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \ge 1$ GHz(1GHz to 25GHz), 100 kHz for f < 1 GHz(30MHz to 1GHz), 200Hz for f<150KHz(9KHz to 150KHz), 9KHz for f<30MHz(150KHz to 30KHz)

 $VBW \ge RBW$

Sweep = auto

Detector function = peak

Trace = max hold

Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data. Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from 20log(dwell time/100 ms), in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Repeat above procedures until all frequency measured was complete.

8.5.5 Test Results

Spurious Emission below 30MHz (9KHz to 30MHz)

Temperature:	24	Test Date:	March 1, 2015
Humidity:	53 %	Test By:	King Kong
Test mode:	TX Mode		

Freq.	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
(MHz)	H/V	PK `	AÝ	PK	AV	PK	AV

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor

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■ Spurious Emission Above 1GHz (1GHz to 25GHz)

Temperature: 24 Test Date: March 1, 2015 Humidity: 53 % Test By: King Kong

Test mode: GFSK Frequency: Channel 0: 2402MHz

Freq.	Ant.Pol.	Emission Lev	vel(dBuV/m)	Limit 3m(dBuV/m)		Ove	er(dB)
(MHz)	H/V	PK	AV	PK	AV	PK	AV
4803.33	V	53.40	40.72	74.00	54.00	-20.60	-13.28
7207.55	V	50.48	38.29	74.00	54.00	-23.52	-15.71
9604.47	V	50.66	37.27	74.00	54.00	-23.34	-16.73
	-			1		-	1
	ŀ			1		-	-
	-			1		-	1
4804.62	Н	54.68	41.24	74.00	54.00	-19.32	-12.76
7205.07	Н	51.10	38.76	74.00	54.00	-22.90	-15.24
9604.31	Н	46.43	33.48	74.00	54.00	-27.57	-20.52

Temperature: 24 Test Date: March 1, 2015 Humidity: 53 % Test By: King Kong

Test mode: GFSK Frequency: Channel 19: 2440MHz

Freq.	Ant.Pol.	Emission Lev	rel(dBuV/m)	Limit 3m(dBuV/m)		Over(dB)	
(MHz)	H/V	PK	AV	PK	AV	PK	AV
4878.53	V	54.58	40.93	74.00	54.00	-19.42	-13.07
7318.95	V	52.02	38.10	74.00	54.00	-21.98	-15.90
9761.21	V	50.78	37.55	74.00	54.00	-23.22	-16.45
4878.17	Н	50.17	38.65	74.00	54.00	-23.83	-15.35
7318.64	Н	51.04	37.73	74.00	54.00	-22.96	-16.27
9757.99	Н	48.50	37.59	74.00	54.00	-25.50	-16.41

Temperature: 24 Test Date: March 1, 2015
Humidity: 53 % Test By: King Kong
Test mode: GFSK Frequency: Channel 39: 2480MHz

Freq.	Ant.Pol.	Emission Lev	vel(dBuV/m)	Limit 3m(dBuV/m)		Over(dB)	
(MHz)	H/V	PK	AV	PK	AV	PK	AV
4961.41	V	55.41	41.36	74.00	54.00	-18.59	-12.64
7441.61	V	51.61	39.11	74.00	54.00	-22.39	-14.89
9918.41	V	50.86	37.70	74.00	54.00	-23.14	-16.30
	-			1	1	-	
	-			1	1	-	
	-			1	1	-	
4958.18	Н	53.67	40.73	74.00	54.00	-20.33	-13.27
7438.36	Н	48.20	36.79	74.00	54.00	-25.80	-17.21
9918.15	Н	45.80	30.64	74.00	54.00	-28.20	-23.36

Note: (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).

- (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
- (3) Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz

Temperature: 24 Test Date: March 1, 2015 Humidity: 53 % Test By: King Kong

Test mode: GFSK Frequency: Channel 0: 2402MHz

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	PK(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2342.640	Н	53.45	74.00	47.63	54.00
2345.680	V	55.77	74.00	48.26	54.00

Temperature: 24 Test Date: March 1, 2015
Humidity: 53 % Test By: King Kong

Test mode: GFSK Frequency: Channel 39: 2480MHz

Frequency (MHz)	Polarity	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	PK(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2483.517	Н	62.61	74.00	50.42	54.00
2483.517	V	63.35	74.00	50.80	54.00

Note: (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).

(2) Emission Level= Reading Level+Probe Factor +Cable Loss.

(3) Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

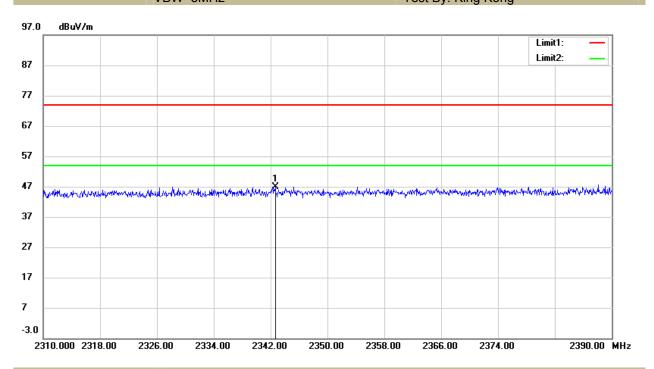
All the modulation modes were tested, the data of the worst mode are described in the following table

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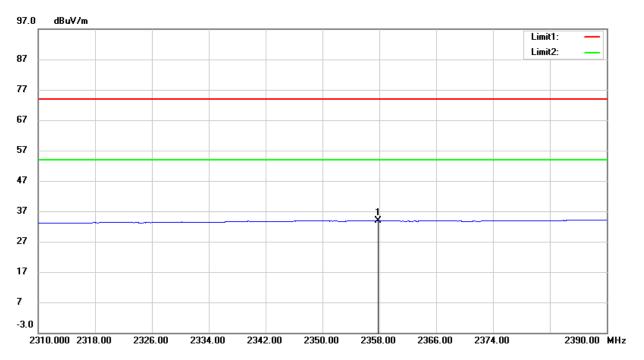
Spurious Emission in Restricted Band 2310-2390MHz

GFSK
Channel 0: 2402MHz
VBW=3MHz
H
VBW=3MHz
Test By: King Kong



Spurious Emission in Restricted Band 2310-2390MHz

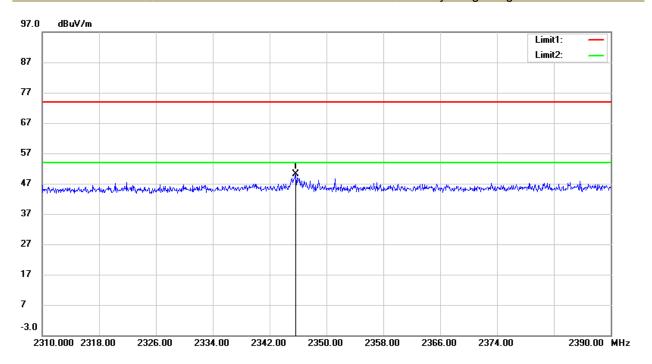
GFSK
Channel 0: 2402MHz
VBW=10Hz
Test By: King Kong





Spurious Emission in Restricted Band 2310-2390MHz

GFSK
Channel 0: 2402MHz
VBW=3MHz
Test By: King Kong



Spurious Emission in Restricted Band 2310-2390MHz

GFSK
Channel 0: 2402MHz
VBW=10Hz
Test By: King Kong



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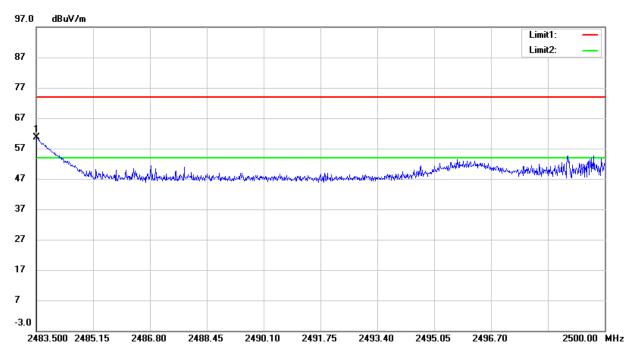


Spurious Emission in Restricted Band 2483.5-2500MHz

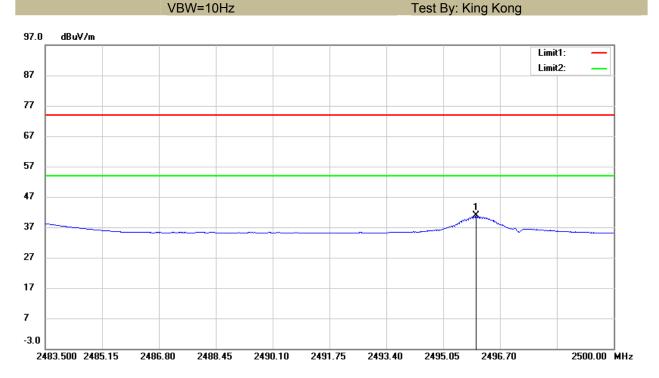
GFSK Test Model

Channel 39: 2480MHz

VBW=3MHz Test By: King Kong



Spurious Emission in Restricted Band 2483.5-2500MHz Test Model Channel 39: 2480MHz VBW=10Hz



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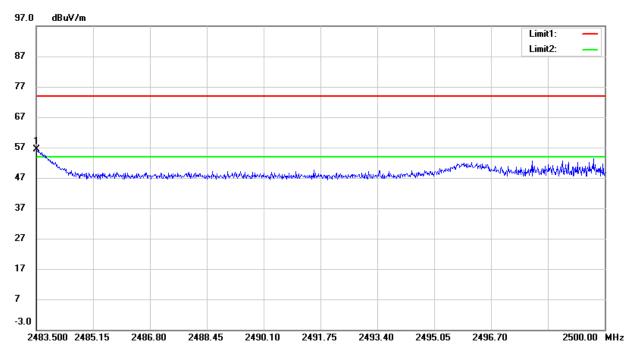


Spurious Emission in Restricted Band 2483.5-2500MHz

Test Model GFSK

Channel 39: 2480MHz V

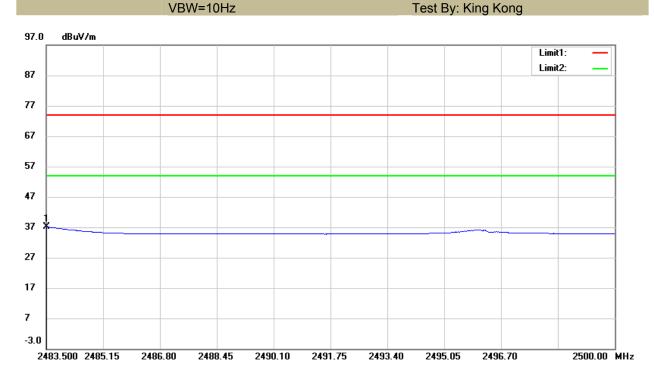
VBW=3MHz Test By: King Kong



Test Model

Spurious Emission in Restricted Band 2483.5-2500MHz

GFSK
Channel 39: 2480MHz
VBW=10Hz
Test By: King Kong

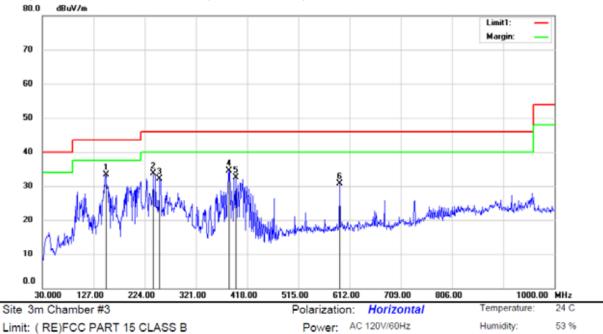




53 %

Humidity:

Spurious Emission below 1GHz (30MHz to 1GHz)



Limit: (RE)FCC PART 15 CLASS B

EUT: Remix Ultra-Tablet

M/N: SK1W Mode: BT4.0(2402)

Note:

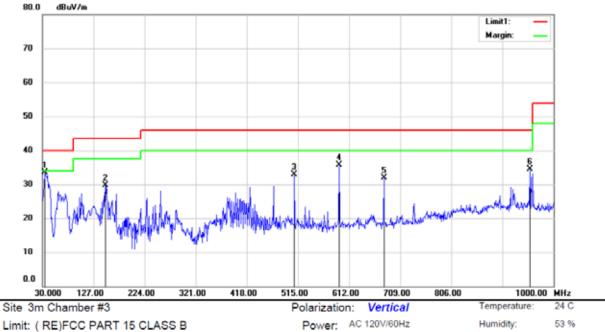
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	150.2800	51.51	-18.12	33.39	43.50	-10.11	QP			
2		240.4900	47.52	-13.81	33.71	46.00	-12.29	QP			
3		252.1300	45.24	-13.20	32.04	46.00	-13.96	QP			
4		383.0800	44.26	-9.83	34.43	46.00	-11.57	QP			
5		396.6600	41.63	-9.05	32.58	46.00	-13.42	QP			
6		593.5700	37.81	-7.04	30.77	46.00	-15.23	QP			

*:Maximum data x:Over limit !:over margin Operator: FW



Humidity:

53 %



Limit: (RE)FCC PART 15 CLASS B

EUT: Remix Ultra-Tablet

M/N: SK1W Mode: BT4.0(2402)

Note:

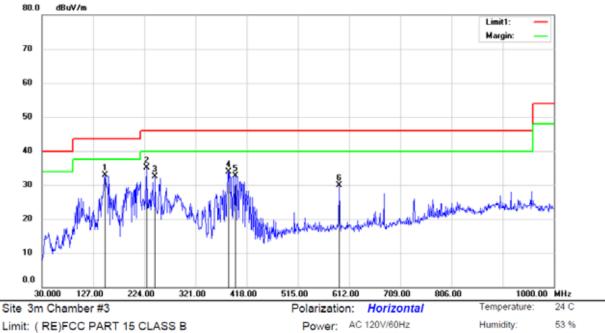
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	34.8500	49.02	-15.61	33.41	40.00	-6.59	QP			
2		149.3100	47.87	-18.08	29.79	43.50	-13.71	QP			
3		508.2100	40.73	-7.74	32.99	46.00	-13.01	QP			
4		593.5700	42.76	-7.04	35.72	46.00	-10.28	QP			
5		677.9600	38.07	-6.21	31.86	46.00	-14.14	QP			
6		955.3800	35.31	-0.71	34.60	46.00	-11.40	QP			

Operator: FW *:Maximum data x:Over limit !:over margin



53 %

Humidity:



Limit: (RE)FCC PART 15 CLASS B

EUT: Remix Ultra-Tablet

M/N: SK1W Mode: BT4.0(2440)

Note:

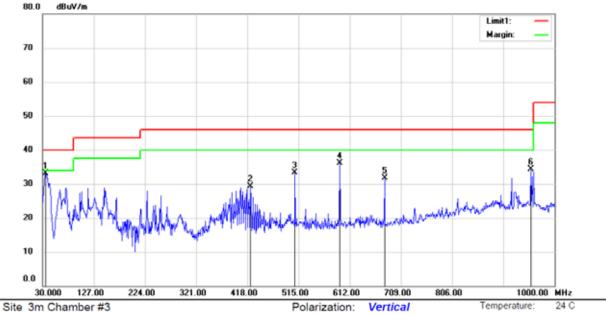
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	149.3100	50.89	-18.08	32.81	43.50	-10.69	QP			
2		228.8500	50.25	-15.24	35.01	46.00	-10.99	QP			
3		244.3700	46.14	-13.61	32.53	46.00	-13.47	QP			
4		383.0800	43.76	-9.83	33.93	46.00	-12.07	QP			
5		396.6600	41.74	-9.05	32.69	46.00	-13.31	QP			
6		593.5700	37.00	-7.04	29.96	46.00	-16.04	QP			

*:Maximum data x:Over limit I:over margin Operator: FW



53 %

Humidity:



Power: AC 120V/60Hz

Limit: (RE)FCC PART 15 CLASS B

EUT: Remix Ultra-Tablet

M/N: SK1W

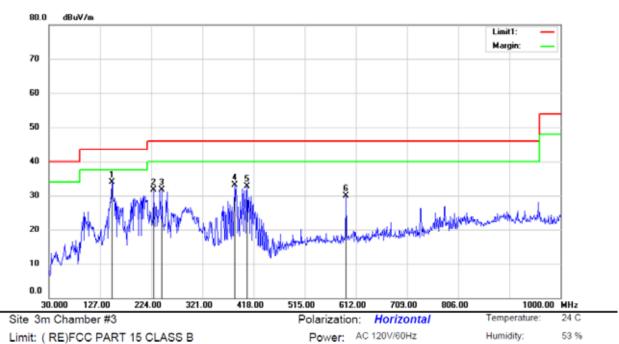
Mode:BT4.0(2440)

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	35.8200	48.72	-15.53	33.19	40.00	-6.81	QP			
2		423.8200	38.98	-9.77	29.21	46.00	-16.79	QP			
3		508.2100	41.06	-7.74	33.32	46.00	-12.68	QP			
4		593.5700	43.06	-7.04	36.02	46.00	-9.98	QP			
5		677.9600	37.91	-6.21	31.70	46.00	-14.30	QP			
6		955.3800	35.08	-0.71	34.37	46.00	-11.63	QP			

*:Maximum data x:Over limit !:over margin Operator: FW





EUT: Remix Ultra-Tablet

M/N: SK1W

Mode:BT4.0(2480)

Note:

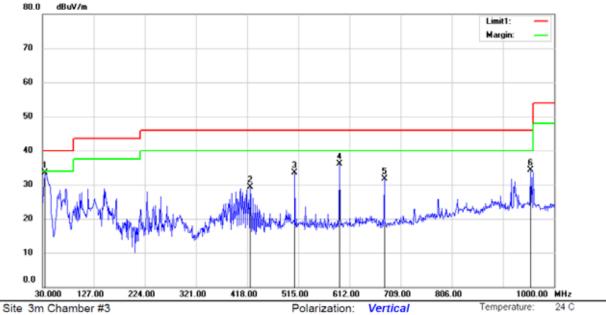
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	149.3100	52.07	-18.08	33.99	43.50	-9.51	QP			
2		227.8800	47.15	-15.37	31.78	46.00	-14.22	QP			
3		244.3700	45.38	-13.61	31.77	46.00	-14.23	QP			
4		382.1100	43.02	-9.88	33.14	46.00	-12.86	QP			
5		405.3900	41.79	-9.02	32.77	46.00	-13.23	QP			
6		593.5700	36.91	-7.04	29.87	46.00	-16.13	QP			

*:Maximum data x:Over limit !:over margin Operator: FW



53 %

Humidity:



Power: AC 120V/60Hz

Limit: (RE)FCC PART 15 CLASS B

EUT: Remix Ultra-Tablet

M/N: SK1W Mode:BT4.0(2480)

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	33.8800	49.18	-15.71	33.47	40.00	-6.53	QP			
2		423.8200	38.98	-9.77	29.21	46.00	-16.79	QP			
3		508.2100	41.33	-7.74	33.59	46.00	-12.41	QP			
4		593.5700	43.06	-7.04	36.02	46.00	-9.98	QP			
5		677.9600	37.91	-6.21	31.70	46.00	-14.30	QP			
6		955.3800	35.08	-0.71	34.37	46.00	-11.63	QP			

*:Maximum data x:Over limit !:over margin Operator: FW



8.6 CONDUCTED EMISSIONS TEST

8.6.1 Applicable Standard

According to FCC Part 15.207(a)

8.6.2 Conformance Limit

Со	nducted Emission Limit	
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies

8.6.3 Test Configuration

Test according to clause 7.3 conducted emission test setup

8.6.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane. Maximum procedure was performed on the highest emissions to ensure EUT compliance. Repeat above procedures until all frequency measured were complete.

8.6.5 Test Results

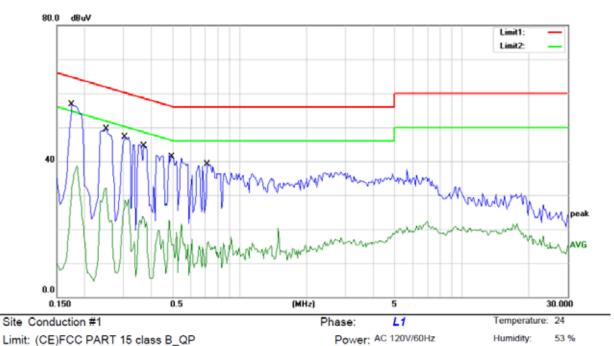
Pass

We test the EUT at 120V and 240V, and show the worst result as bellow.

^{2.} The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.



Humidity:



Limit: (CE)FCC PART 15 class B_QP

EUT: Remix Ultra-Table

M/N: SK1W Mode: ON Note:

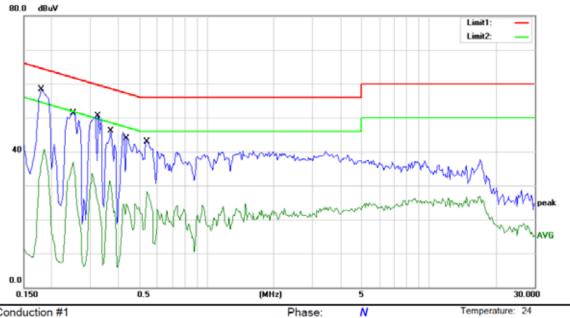
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1750	56.73	0.00	56.73	64.72	-7.99	QP	
2		0.1750	38.76	0.00	38.76	54.72	-15.96	AVG	
3		0.2500	49.47	0.00	49.47	61.76	-12.29	QP	
4		0.2500	32.17	0.00	32.17	51.76	-19.59	AVG	
5		0.3050	47.13	0.00	47.13	60.11	-12.98	QP	
6		0.3050	28.88	0.00	28.88	50.11	-21.23	AVG	
7		0.3700	44.51	0.00	44.51	58.50	-13.99	QP	
8		0.3700	23.70	0.00	23.70	48.50	-24.80	AVG	
9		0.4950	41.22	0.00	41.22	56.08	-14.86	QP	
10		0.4950	22.71	0.00	22.71	46.08	-23.37	AVG	
11		0.7150	39.11	0.00	39.11	56.00	-16.89	QP	
12		0.7150	16.38	0.00	16.38	46.00	-29.62	AVG	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: CAI



Humidity:

53 %



Power: AC 120V/60Hz

Site Conduction #1

Limit: (CE)FCC PART 15 class B_QP

EUT: Remix Ultra-Table

M/N: SK1W Mode: ON Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1800	58.33	0.00	58.33	64.49	-6.16	QP	
2		0.1800	40.67	0.00	40.67	54.49	-13.82	AVG	
3		0.2500	51.29	0.00	51.29	61.76	-10.47	QP	
4		0.2500	36.09	0.00	36.09	51.76	-15.67	AVG	
5		0.3250	50.57	0.00	50.57	59.58	-9.01	QP	
6		0.3250	33.57	0.00	33.57	49.58	-16.01	AVG	
7		0.3700	46.09	0.00	46.09	58.50	-12.41	QP	
8		0.3700	31.34	0.00	31.34	48.50	-17.16	AVG	
9		0.4350	43.95	0.00	43.95	57.16	-13.21	QP	
10		0.4350	24.69	0.00	24.69	47.16	-22.47	AVG	
11		0.5350	42.92	0.00	42.92	56.00	-13.08	QP	
12		0.5350	28.27	0.00	28.27	46.00	-17.73	AVG	

*:Maximum data x:Over limit I:over margin Comment: Factor build in receiver. Operator: CAI



8.7 ANTENNA APPLICATION

8.7.1 Antenna Requirement

Standard	Requirement
FCC CRF Part 15.203	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

8.7.2 **Result**

PASS.

The EUT has 1 antenna: a Ceramic Chip Antenna for BT3.0 with classic model, the gain is 1.4 dBi; The EUT has 1 antenna: a Ceramic Chip Antenna for BT4.0 with BLE model, the gain is 1.4 dBi; The EUT has 1 antenna: a Ceramic Chip Antenna for wifi 2.4G, the gain is 1.4 dBi; The EUT has 1 antenna: a Ceramic Chip Antenna for wifi 5.8G, the gain is 2.3 dBi; Note: Antenna use a permanently attached antenna which is not replaceable. Not using a standard antenna jack or electrical connector for antenna replacement
The antenna has to be professionally installed (please provide method of installation) which in accordance to section 15.203, please refer to the internal photos.
WHICH III ACCOLUANCE TO SECTION 12.502. DIEASE LEIEL TO THE INTERNAL DITOTOS.