Sep 19, 2010

SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.
NO.1 Shuoying Rd., Hebei Industry Area,
Dalang, Longhua Town, Baoan, Shenzhen, China

Dear Tony Pan:

Enclosed you will find your file copy of a Part 15 report (FCC ID: XJN-SYNET07526).

For your reference, TCB will normally take another 20 days for reviewing the report. Approval will then be granted when no query is sorted.

Please contact me if you have any questions regarding the enclosed material.

Sincerely,

Shawn Xing
Assistant Manager

Enclosure

SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.

Application
For
Certification

Netbook
(WiFi Transceiver)

(FCC ID: XJN-SYNET07526)

Model: UMPC7800

SZ10070205-1
Billy Li
Sep 19, 2010

TRF No.: FCC 15C_Txa
FCC ID: XJN-SYNET07526

Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch
6F, D Block, Huahan Building, Langshan Road, Nanshan District, Shenzhen, P. R. China
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MEASUREMENT/TECHNICAL REPORT

SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD. - MODEL: UMPC7800

FCC ID: XJN-SYNET07526

This report concerns (check one) Original Grant ___X___ Class II Change ____

Equipment Type: DTS - Part 15 Digital Transmission Systems (WiFi transmitter portion)

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes _____ No ___X___

If yes, defer until : _____ date

Company Name agrees to notify the Commission by: _____ date

of the intended date of announcement of the product so that the grant can be issued on that date.

Transition Rules Request per 15.37? Yes _____ No ___X___

If no, assumed Part 15, Subpart C for intentional radiator - the new 47 CFR [10-01-09 Edition] provision.

Report prepared by:

Shawn Xing
Intertek Testing Services Shenzhen Ltd.
Kejiyuan Branch
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List of attached file

Exhibit Type	File Description	Filename
Cover Letter	Letter of Agency	agency.pdf
Test Report	Test Report	report.pdf
Test Report	6 dB Bandwidth Plot	6dB.pdf
Test Report	Maximum Power Density Plot	maxpd.pdf
Test Report	Out Band Antenna Conducted Emission Plot	obantcon.pdf
Test Report	Bandedge Plot	bandedge.pdf
Test Setup Photo	Radiated Emission	radiated photos.pdf
Test Setup Photo	Conducted Emission	conducted photos.pdf
External Photo	External Photo	external photos.pdf
Internal Photo	Internal Photo	internal photos.pdf
Block Diagram	Block Diagram	block.pdf
Schematics	Circuit Diagram	circuit.pdf
Operation Description	Technical Description	descri.pdf
ID Label/Location	Label Artwork and Location	label.pdf
User Manual	User Manual	manual.pdf
RF Exposure info	RF Safety	RF exposure info.pdf

EXHIBIT 1

SUMMARY OF TEST RESULTS

1.0 Summary of Test

SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD. - MODEL: UMPC7800

FCC ID: XJN-SYNET07526

TEST	REFERENCE	RESULTS
Max. Output power	15.247(b)	Pass
6 dB Bandwidth	15.247(a)(2)	Pass
Max. Power Density	15.247(e)	Pass
Out of Band Antenna Conducted Emission	15.247(d)	Pass
Radiated Emission in Restricted Bands	15.247(d)	Pass
AC Conducted Emission	15.207	Pass
Antenna Requirement	15.203	Pass (See Notes)

Notes: The EUT uses an integral PCB antenna which in accordance to Section 15.203 is considered sufficient to comply with the provisions of this section.

EXHIBIT 2

GENERAL DESCRIPTION

2.0 **General Description**

2.1 Product Description

The Equipment Under Test (EUT) is a Netbook with internal WiFi module operating at 2.412-2.462GHz, 11 channels with 5MHz channel spacing. The EUT is installed with Windows CE operating system and can carry out base function of the PC. The device is powered by 1 X 8.4V internal rechargeable battery or an AC/DC Adapter (Input AC 120V/60Hz, output DC 9V, 1.5A). For more detailed features description, please refer to the user's manual.

Antenna Type: Internal, Integral PCB.

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

2.2 Related Submittal(s) Grants

This is an application for certification of:
DTS- Part 15 Digital Transmission Systems (WiFi transmitter portion)

Remaining portions are subject to the following procedures:
1. Receiver portion of WiFi: exempt from technical requirement of this Part.
2. Other function: 15B Certification (report no. : SZ10070204-1).

2.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.4 (2003) and KDB 558074. Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "**Justification Section**" of this Application. All other measurements were made in accordance with the procedures in part 2 of CFR 47.

2.4 Test Facility

The Semi-Anechoic chamber and shield room used to collect the radiated data and conducted data are **Interterk Testing Services Shenzhen Ltd. Kejiyuan Branch** and located at 6F, Block D, Huahan Building, Langshan Road, Nanshan District, Shenzhen, P. R. China. This test facility and site measurement data have been fully placed on file with the FCC.

EXHIBIT 3

SYSTEM TEST CONFIGURATION

3.0 System Test Configuration

3.1 Justification

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables were manipulated to produce worst case emissions. It was powered by an AC/DC Adapter (Input AC 120V/60Hz, output DC 9V, 1.5A) and 1 X 8.4V fully charged battery during the test.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

3.2 EUT Exercising Software

The EUT exercise program (provided by client) used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The worst case configuration is used in all specified testing.

The parameters of test software setting:
During the test, Channel and power controlling software provided by the applicant was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the application and is going to be fixed on the firmware of the end product.

Power Parameters of IEEE 802.11b/g

Test software setting of IEEE 802.11b/g			
Channel No.	Output Power level	Data rate	Date modulation
1,6,11	13.5	802.11b: 1-11Mbps	802.11b: CCK(BPSK, QPSK, CCK)
	13.5	802.11g: 6-54Mbps	802.11g: OFDM (BPSK, QPSK, OFDM, 16/64QAM)

We test all data rate and only the worst - case data is shown in the report.

3.3 Special Accessories

The device is tested with an adapter with ferrite bead. They are marketed together with the device.

3.4 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

Uncertainty and Compliance - Unless the standard specifically states that measured values are to be extended by the measurement uncertainty in determining compliance, all compliance determinations are based on the actual measured value.

3.5 Equipment Modification

Any modifications installed previous to testing by SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD. will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch.

3.6 Support Equipment List and Description

This product was tested in the following configuration:

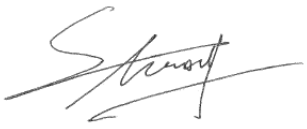
Refer List:

	Manufacturer	Model No.
Hard Disk	Smart.drive	HD-003
SD Card	Sandisk	1G/ BB0723011986D
1.5m USB Cable	N/A	N/A
USB Keyboard with 1.8m unshielded cable	Dell	SK-8115
USB Mouse with 1.5m unshielded cable	HP	R41126
Earphone with 1.5m unshielded cable	NA	NA
Microphone with 1.2m unshielded cable	NA	NA
Adapter	Jujiada	SAW-0901500 (INPUT: 100-240, 50/60Hz; OUTPUT: DC 9V-1.5A)
Laptop	IBM	T61
5.0m RJ45 Cable	N/A	N/A

All the items listed under section 3.0 of this report are

Confirmed by:

Shawn Xing
Assistant Manager
Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch
Agent for SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.



Signature

Sep 19, 2010 *Date*

EXHIBIT 4

MEASUREMENT RESULTS

Applicant: SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.
Date of Test: Sep 19, 2010
Model: UMPC7800

4.0 **Measurement Results**

4.1 Maximum Conducted Output Power at Antenna Terminals, FCC Rules 15.247(b)(3):

[×] The antenna power of the EUT was connected to the input of a power meter. Power was read directly and cable loss correction was added to the reading to obtain power at the EUT antenna terminals.

[ ] The antenna port of the EUT was connected to the input of a spectrum analyzer. The analyzer was set for RBW> 6dB bandwidth and power was read directly in dBm. External attenuation and cable loss were compensated from the measured value.

For antennas with gains of 6 dBi or less, maximum allowed Transmitter output is 1 watt (+30 dBm).

IEEE 802.11b (Antenna Gain = 0.5dBi) (CCK, 1Mbps)		
Frequency (MHz)	Output in dBm	Output in mWatt
Low Channel: 2412	13.1	20.4
Middle Channel: 2437	12.3	17.0
High Channel: 2462	11.4	13.8

IEEE 802.11g (Antenna Gain = 0.5dBi) (OFDM, 6Mbps)		
Frequency (MHz)	Output in dBm	Output in mWatt
Low Channel: 2412	13.3	21.4
Middle Channel: 2437	12.6	18.2
High Channel: 2462	11.7	14.8

Cable loss: 0.5 dB External Attenuation : 0 dB

Cable loss, external attenuation: [ ] included in OFFSET function
[x] added to power meter raw reading

EUT dBm max. output level = 13.3 dBm

For RF Safety, the information is saved with filename: RF exposure info.pdf.

Applicant: SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.
Date of Test: Sep 19, 2010
Model: UMPC7800

4.2 Minimum 6 dB RF Bandwidth, FCC Rule 15.247(a)(2):

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RES BW was set to 100kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK output reading was taken, a DISPLAY line was drawn 6 dB lower than PEAK level. The 6dB bandwidth was determined from where the channel output spectrum intersected the display line.

IEEE 802.11b (CCK, 1Mbps)	
Frequency (MHz)	6 dB Bandwidth (MHz)
2462	10.15

IEEE 802.11g (OFDM, 6Mbps)	
Frequency (MHz)	6 dB Bandwidth (MHz)
2412 and 2437	16.52

Limit: at least 500 kHz

Refer to the following plots for 6 dB bandwidth sharp:

IEEE 802.11b
Plot B2A1: Low Channel 6 dB RF Bandwidth
Plot B2B1: Middle Channel 6 dB RF Bandwidth
Plot B2C1: High Channel 6 dB RF Bandwidth

IEEE 802.11g
Plot G2A1: Low Channel 6 dB RF Bandwidth
Plot G2B1: Middle Channel 6 dB RF Bandwidth
Plot G2C1: High Channel 6 dB RF Bandwidth

For electronic filing, the above plots are saved with filename: 6dB.pdf

Applicant: SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.
Date of Test: Sep 19, 2010
Model: UMPC7800

4.3 Maximum Power Density Reading, FCC Rule 15.247(e) :

The spectrum analyzer RES BW was set to 3kHz. In order to look for a peak, the START and STOP frequencies were set to the band edges of the maximum output passband. If there is no clear maximum amplitude in any given portion of the band, it may be necessary to make measurements at a number of bands defined by several START and STOP frequency pairs.

Antenna output of the EUT was coupled directly to spectrum analyzer; if an external attenuator and/or cable was used, these losses are compensated for with the analyzer OFFSET function.

IEEE 802.11b (CCK, 1Mbps)	
Frequency (MHz)	Power Density (dBm/3kHz)
2411.437	-22.28

Frequency Span = 1.5MHz

Sweep Time = Frequency Span/3kHz
= 500 seconds

Cable Loss: 0.5dB

Peak Power Density (at 2411.437MHz) = -22.28 dBm/3kHz

Limit: 8dBm/ 3 kHz

Refer to the following plots for power density data :

Plot B3A1: Low Channel power density
Plot B3B1: Middle Channel power density
Plot B3C1: High Channel power density

For electronic filing, the above plots are saved with filename: maxpd.pdf

Applicant: SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.
Date of Test: Sep 19, 2010
Model: UMPC7800

4.3 Maximum Power Density Reading, FCC Rule 15.247(e)-Continued:

IEEE 802.11g (OFDM, 6Mbps)	
Frequency (MHz)	Power Density (dBm/3kHz)
2411.227	-24.79

Frequency Span = 1.5MHz

Sweep Time = Frequency Span/3kHz
= 500 seconds

Cable Loss: 0.5dB

Peak Power Density (at 2411.227MHz) = -24.79 dBm/3kHz

Limit: 8dBm/ 3 kHz

Refer to the following plots for power density data :

Plot G3A1: Low Channel power density
Plot G3B1: Middle Channel power density
Plot G3C1: High Channel power density

For electronic filing, the above plots are saved with filename: maxpd.pdf

Applicant: SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.
Date of Test: Sep 19, 2010
Model: UMPC7800

4.4 Out of Band Conducted Emissions, FCC Rule 15.247(d)

In any 100 kHz bandwidth outside the EUT passband, the RF power produced by the modulation products of the spreading sequence, the information sequence, and the carrier frequency shall be at least 20dB below that of the maximum in-band 100 kHz emission, or else shall meet the general limits for radiated emissions at frequencies outside the passband, whichever results in lower attenuation.

All other types of emissions from the EUT shall meet the general limits for radiated frequencies outside the passband.

Refer to the following plots for out of band conducted emissions data with rate of 1MHz for 802.11b and 6MHz for 802.11g.

Plot B4A1, B4A2: Low Channel Emissions
Plot B4B1, B4B2: Middle Channel Emissions
Plot B4C1, B4C2: High Channel Emissions
Plot G4A1, G4A2: Low Channel Emissions
Plot G4B1, G4B2: Middle Channel Emissions
Plot G4C1, G4C2: High Channel Emissions
Plot B4D1 - B4D2: Bandedge Emissions
Plot G4D1 - G4D2: Bandedge Emissions

The plots showed all spurious emission and up to the tenth harmonic was measured and they were found to be at least 20 dB below the highest level of the desired power in the passband.

For the electronic filing, the above Channel Emissions plots are saved with filename: obantcon.pdf

Furthermore, delta measurement technique for measuring bandage emissions was shown as below:

802.11b

(i) Lower channel 2412MHz:

Peak Resultant field strength = Fundamental emissions (peak value) – delta from the bandedge plot

= 94.6dBµv/m-45.2dB
= 49.4dBµv/m

(ii) Upper channel 2464MHz:

Peak Resultant field strength = Fundamental emissions (peak value) – delta from the bandedge plot

= 92.2dBµv/m-52.0dB
= 40.2dBµv/m

802.11g

(iii) Lower channel 2412MHz:

Peak Resultant field strength = Fundamental emissions (peak value) – delta from the bandedge plot

= 88.9dBµv/m-36.0dB
= 52.9dBµv/m

(iiii) Upper channel 2462MHz:

Peak Resultant field strength = Fundamental emissions (peak value) – delta from the bandedge plot

= 88.2dBµv/m-49.1dB
= 39.1dBµv/m

The resultant field strength meets the general radiated emission limit in section 15.209, which does not exceed 74 dBµv/m (Peak Limit) and 54dBµv/m (Average Limit).

For the electronic filing, the above Bandedge Emissions plots are saved with filename: bandedge.pdf

Applicant: SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.
Date of Test: Sep 19, 2010
Model: UMPC7800

4.5 Out of Band Radiated Emissions (for emissions in 4.4 above that are less than 20dB below carrier), FCC Rule 15.247(d):

For out of band emissions that are close to or that exceed the 20dB attenuation requirement described in the specification, radiated measurements were performed at a 3m separation distance to determine whether these emissions complied with the general radiated emission requirement.

[×] Not required, since all emissions are more than 20dB below fundamental
[ ] See attached data sheet

Applicant: SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.
Date of Test: Sep 19, 2010
Model: UMPC7800

4.6 Transmitter Radiated Emissions in Restricted Bands, FCC Rule 15.35(b), (c):

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included.

The data on the following pages list the significant emission frequencies, the limit and the margin of compliance.

Applicant: SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.
Date of Test: Sep 19, 2010
Model: UMPC7800

4.7 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

FS = RA + AF + CF - AG + PD + AV

Where FS = Field Strength in dBμV/m
RA = Receiver Amplitude (including preamplifier) in dBμV
CF = Cable Attenuation Factor in dB
AF = Antenna Factor in dB
AG = Amplifier Gain in dB
PD = Pulse Desensitization in dB
AV = Average Factor in -dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

FS = RA + AF + CF - AG + PD + AV

Example
Assume a receiver reading of 62.0 dBμV is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB, and the resultant average factor was -10 dB. The net field strength for comparison to the appropriate emission limit is 32 dBμV/m. This value in dBμV/m was converted to its corresponding level in μV/m.

RA = 62.0 dBμV
AF = 7.4 dB
CF = 1.6 dB
AG = 29.0 dB
PD = 0 dB
AV = -10 dB
FS = 62 + 7.4 + 1.6 - 29 + 0 + (-10) = 32 dBμV/m

Level in mV/m = Common Antilogarithm [(32 dBμV/m)/20] = 39.8 μV/m

Applicant: SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.
Date of Test: Sep 19, 2010
Model: UMPC7800

4.8 Radiated Emission Configuration Photograph

Worst Case Radiated Emission
at
449.587MHz

For the electronic filing, the worst case radiated emission configuration photographs are saved with filename: radiated photos.pdf.

Applicant: SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.
Date of Test: Sep 19, 2010
Model: UMPC7800

4.9 Radiated Emission Data

The data on the following pages list the significant emission frequencies, the limit and the margin of compliance.

Judgement : Passed by 1.1 dB margin

TEST PERSONNEL:

Billy Li

Tester Signature

Billy Li, Project Engineer
Typed/Printed Name

Sep 19, 2010
Date

Applicant: SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.
Date of Test: Sep 19, 2010
Model: UMPC7800
Worst Case Operating Mode: Link with wireless Router with 802.11g 2437MHz

Table 1

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	290.125	47.1	20.0	13.2	40.3	46.0	-5.7
Horizontal	319.254	43.9	20.0	15.9	39.8	46.0	-6.2
Horizontal	470.458	41.6	20.0	18.8	40.4	46.0	-5.6
Vertical	449.587	48.0	20.0	16.9	44.9	46.0	-1.1
Vertical	458.297	44.9	20.0	17.6	42.5	46.0	-3.5
Vertical	465.001	46.0	20.0	18.3	44.3	46.0	-1.7

NOTES:
1. Quasi-Peak detector is used except for others stated.
2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. All emissions are below the QP limit.

Test Engineer: Billy Li

Applicant: SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.
Date of Test: Sep 19, 2010
Model: UMPC7800
Mode: 802.11b (TX-Channel 01)

Table 2
Radiated Emissions

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Vertical	**2412.000	104.1	36.7	27.2	94.6	--	--
Vertical	*4824.000	54.3	36.1	34.1	52.3	54.0	-1.7
Vertical	*7236.000	50.1	35.6	37.0	51.5	54.0	-2.5

NOTES: 1. Peak detector is used for the emission measurement.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

** Fundamental emissions were measured for determining band-edge compliance of using delta measurements technique.

Test Engineer: Billy Li

Applicant: SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.
Date of Test: Sep 19, 2010
Model: UMPC7800
Mode: 802.11b (TX-Channel 06)

Table 3
Radiated Emissions

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Vertical	*4874.000	54.4	36.1	34.5	52.8	54.0	-1.2
Vertical	*7311.000	49.9	35.6	37.1	51.4	54.0	-2.6

NOTES: 1. Peak detector is used for the emission measurement.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Test Engineer: Billy Li

Applicant: SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.
Date of Test: Sep 19, 2010
Model: UMPC7800
Mode: 802.11b (TX-Channel 11)

Table 4
Radiated Emissions

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Vertical	**2462.000	101.2	36.7	27.7	92.2	--	--
Vertical	*4924.000	53.9	36.1	34.7	52.5	54.0	-1.5
Vertical	*7386.000	50.2	35.6	37.2	51.8	54.0	-2.2

NOTES: 1. Peak detector is used for the emission measurement.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

** Fundamental emissions were measured for determining band-edge compliance of using delta measurements technique.

Test Engineer: Billy Li

Applicant: SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.
Date of Test: Sep 19, 2010
Model: UMPC7800
Mode: 802.11g (TX-Channel 01)

Table 5
Radiated Emissions

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Vertical	**2412.000	98.4	36.7	27.2	88.9	--	--
Vertical	*4824.000	54.6	36.1	34.1	52.6	54.0	-1.4
Vertical	*7236.000	50.0	35.6	37.0	51.4	54.0	-2.6

NOTES: 1. Peak detector is used for the emission measurement.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

** Fundamental emissions were measured for determining band-edge compliance of using delta measurements technique.

Test Engineer: Billy Li

Applicant: SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.
Date of Test: Sep 19, 2010
Model: UMPC7800
Mode: 802.11g (TX-Channel 06)

Table 6
Radiated Emissions

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Vertical	*4874.000	53.9	36.1	34.5	52.3	54.0	-1.7
Vertical	*7311.000	50.2	35.6	37.1	51.7	54.0	-2.3

NOTES: 1. Peak detector is used for the emission measurement.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

Test Engineer: Billy Li

Applicant: SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.
Date of Test: Sep 19, 2010
Model: UMPC7800
Mode: 802.11g (TX-Channel 11)

Table 7
Radiated Emissions

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Vertical	**2462.000	97.2	36.7	27.7	88.2	--	--
Vertical	*4924.000	53.7	36.1	34.7	52.3	54.0	-1.7
Vertical	*7386.000	50.1	35.6	37.2	51.7	54.0	-2.3

NOTES: 1. Peak detector is used for the emission measurement.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna used for the emission over 1000MHz.

* Emission within the restricted band meets the requirement of section 15.205. The corresponding limit as per 15.209 is based on Quasi peak limit for frequencies below 1000 MHz and average limit for frequencies over 1000 MHz. The radio frequency emissions above 1GHz also meet corresponding 20dB permitted peak limit with a peak detector function.

** Fundamental emissions were measured for determining band-edge compliance of using delta measurements technique.

Test Engineer: Billy Li

4.10 Conducted Emission Configuration Photograph

Worst Case Neutral-Conducted Configuration
at
2.722MHz

For electronic filing, the worst case conducted emission configuration photograph is saved with filename: conducted photos.pdf.

4.11 Conducted Emission Data

Judgement: Passed by 0.4 dB margin

TEST PERSONNEL:

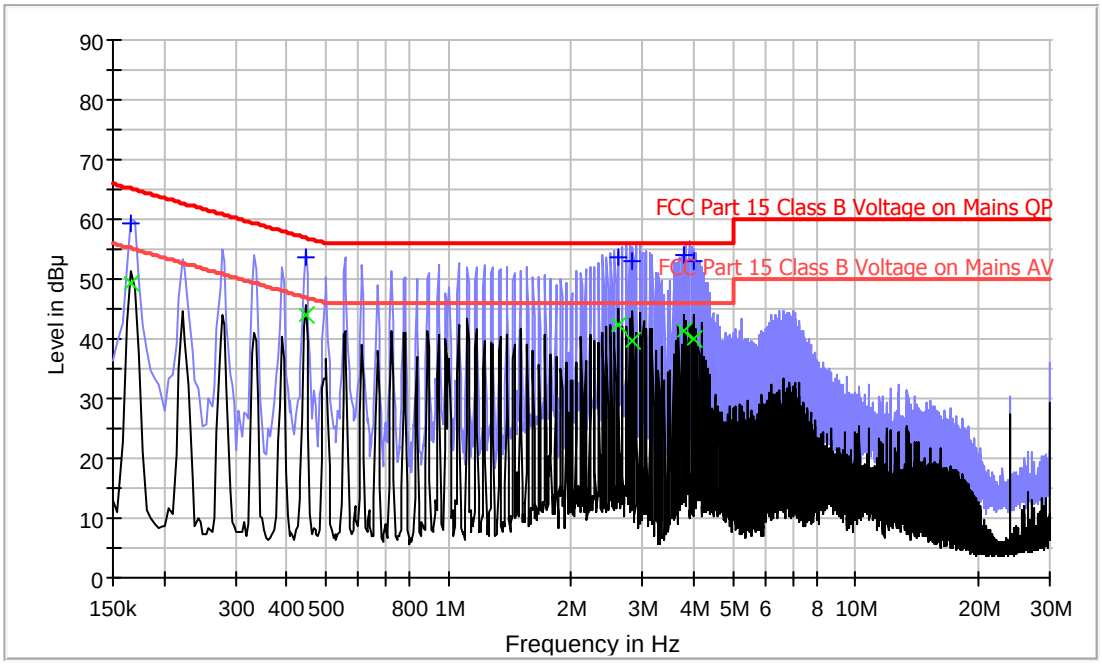
Signature

Billy Li, Project Engineer
Typed/Printed Name

Sep 19, 2010
Date

Company: SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.
Date of Test: Sep 19, 2010
Model: UMPC7800
Worst Case Operating Mode: Transmit with 802.11g 2437MHz

Conducted Emission Test - FCC



Result Table-QP

Frequency (MHz)	QuasiPeak (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.166000	59.3	L1	9.6	5.9	65.2
0.446000	53.6	L1	9.6	3.3	56.9
2.618000	53.7	L1	9.7	2.3	56.0
2.842000	52.9	L1	9.7	3.1	56.0
3.786000	54.0	L1	9.7	2.0	56.0
4.010000	53.0	L1	9.7	3.0	56.0

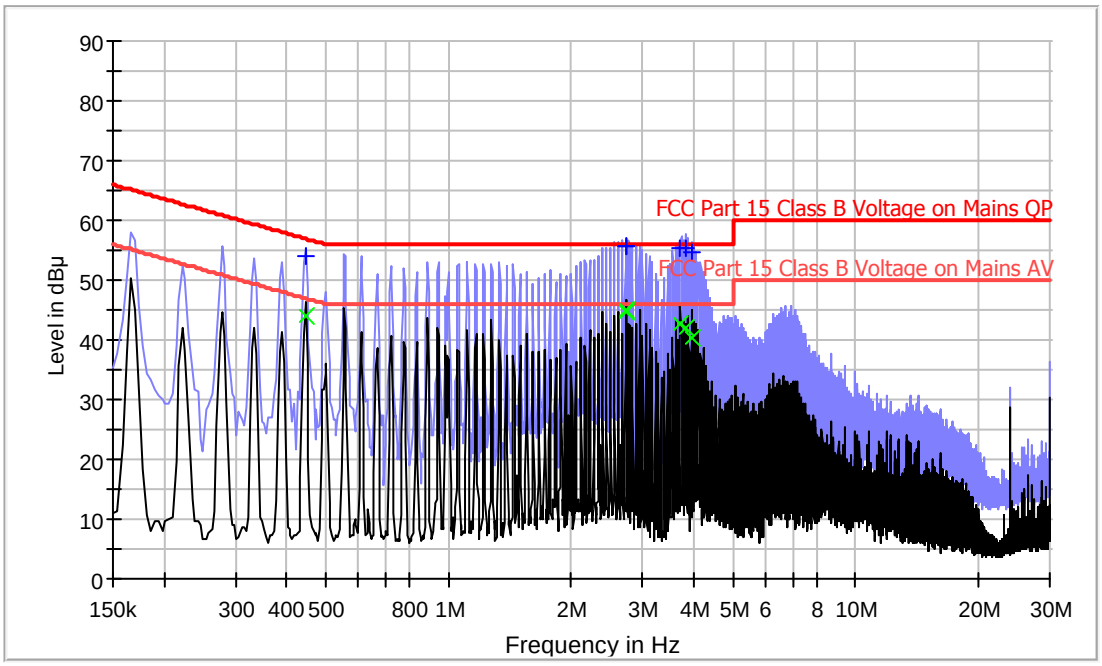
Result Table-AV

Frequency (MHz)	CAverage (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.166000	49.3	L1	9.6	5.9	55.2
0.446000	44.0	L1	9.6	2.9	46.9
2.618000	42.2	L1	9.7	3.8	46.0
2.842000	39.8	L1	9.7	6.2	46.0
3.786000	41.2	L1	9.7	4.8	46.0
4.010000	40.0	L1	9.7	6.0	46.0

Test Engineer: Billy Li

Company: SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.
Date of Test: Sep 19, 2010
Model: UMPC7800
Worst Case Operating Mode: Transmit with 802.11g 2437MHz

Conducted Emission Test - FCC



Result Table-QP

Frequency (MHz)	QuasiPeak (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.446000	54.1	N	9.6	2.8	56.9
2.721000	55.5	N	9.7	0.5	56.0
2.722000	55.6	N	9.7	0.4	56.0
3.722000	55.5	N	9.8	0.5	56.0
3.834000	55.4	N	9.8	0.6	56.0
3.946000	54.7	N	9.8	1.3	56.0

Result Table-AV

Frequency (MHz)	CAverage (dB µ V)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.446000	44.0	N	9.6	2.9	46.9
2.721000	44.9	N	9.7	1.1	46.0
2.722000	44.7	N	9.7	1.3	46.0
3.722000	42.8	N	9.8	3.2	46.0
3.834000	42.2	N	9.8	3.8	46.0
3.946000	40.3	N	9.8	5.7	46.0

Test Engineer: Billy Li
TRF No.: FCC 15C_TXa
FCC ID: XJN-SYNET07526

Applicant: SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.
Date of Test: Sep 19, 2010
Model: UMPC7800

4.12 Radiated Emissions from Digital Section of Transceiver, FCC Ref: 15.109

[ ] Not required - No digital part

[ ] Test results are attached

[x] Included in the separated Certification and Verification report.

Applicant: SHUOYING INDUSTRIAL (SHENZHEN) CO., LTD.
Date of Test: Sep 19, 2010
Model: UMPC7800

4.13 Transmitter Duty Cycle Calculation and Measurements, FCC Rule 15.35(b), (c)

The EUT antenna output port was connected to the input of the spectrum analyzer. The analyzer center frequency was set to EUT RF channel carrier. The SWEP function on the analyzer was set to ZERO SPAN. The Transmitter ON time was determined from the resultant time-amplitude display:

	See attached spectrum analyzer chart (s) for Transmitter timing
	See Transmitter timing diagram provided by manufacturer
x	Not applicable, duty cycle was not used.

EXHIBIT 5

EQUIPMENT PHOTOGRAPHS

5.0 Equipment Photographs

For electronic filing, the photographs are saved with filename: external photos.doc & internal photos.pdf.

EXHIBIT 6

PRODUCT LABELLING

6.0 **Product Labeling**

For electronic filing, the FCC ID label artwork and location is saved with filename: label.pdf.

EXHIBIT 7

TECHNICAL SPECIFICATIONS

7.0 Technical Specifications

For electronic filing, the block diagram and circuit diagram are saved with filename: block.pdf and circuit.pdf respectively.

EXHIBIT 8

INSTRUCTION MANUAL

8.0 **Instruction Manual**

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States.

EXHIBIT 9

MISCELLANEOUS INFORMATION

9.0 Discussion of Pulse Desensitization

The determination of pulse desensitivity was made in accordance with Hewlett Packard Application Note 150-2, *Spectrum Analysis ... Pulsed RF.*

Pulse desensitivity is not applicable for this device since the transmitter transmits the RF signal continuously.

EXHIBIT 10

TEST EQUIPMENT LIST

10.0 **Test Equipment List**

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ061-03	BiConiLog Antenna	ETS	3142C	00066460	25-Nov-09	25-May-11
SZ061-08	Horn Antenna	ETS	3115	00092346	15-Mar-10	15-Sep-11
SZ185-01	EMI Receiver	R&S	ESCI	100547	08-Mar-10	08-Mar-11
SZ056-03	Spectrum Analyzer	R&S	FSP 30	101148	18-Mar-10	18-Mar-11
SZ181-04	Preamplifier	Agilent	8449B	3008A02474	18-Mar-10	18-Mar-11
SZ188-01	Anechoic Chamber	ETS	RFD-F/A-100	4102	09-Jan-10	09-Jan-11
SZ062-02	RF Cable	RADIALL	RG 213U	--	19-Apr-10	19-Oct-10
SZ062-06	RF Cable	RADIALL	0.04-26.5GHz	--	17-Aug-09	16-Sep-11
SZ062-12	RF Cable	RADIALL	0.04-26.5GHz	--	17-Aug-09	16-Sep-11
SZ185-02	EMI Test Receiver	R&S	ESCI	100692	23-Nov-09	23-Nov-10
SZ187-01	Two-Line V-Network	R&S	ENV216	100072	23-Nov-09	23-Nov-10
SZ187-02	Two-Line V-Network	R&S	ENV216	100073	23-Nov-09	23-Nov-10
SZ188-03	Shielding Room	ETS	RFD-100	4100	05-Nov-09	05-Nov-10
SZ067-04	Notch Filter	Micro-Tronics	BRM50702-02	--	19-Apr-10	30-Mar-11
SZ182-01	RF Power Meter	BOONTON	4232A	11002	2010-3-8	2011-3-8
SZ182-01-01	Power Sensor	BOONTON	51011-EMC	34400	2010-3-8	2011-3-8