

FCC TEST REPORT

On Behalf of

Panda Wireless, Inc.

Wireless USB Adapter

Model No.: PAU07

Prepared for : Panda Wireless, Inc.
Address : 15559 Union Ave, Suite 300, Los Gatos, CALIFORNIA 95032

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : December 17, 2014
Number of tested samples : 1
Serial number : Prototype
Date of Test : December 17, 2014 - January 06, 2015
Date of Report : January 06, 2015

FCC TEST REPORT
FCC CFR 47 PART 15 Subpart B: 2014

Report Reference No. : LCS1501120364E

Date Of Issue : January 06, 2015

Testing Laboratory Name: Shenzhen LCS Compliance Testing Laboratory Ltd.

Address : 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an District, Shenzhen, Guangdong, China

Testing Location/ Procedure: Full application of Harmonised standards [checked]
Partial application of Harmonised standards []
Other standard testing method []

Applicant's Name : Panda Wireless, Inc.

Address : 15559 Union Ave, Suite 300, Los Gatos, CALIFORNIA 95032

Test Specification

Standard : FCC CFR 47 PART 15 Subpart B: 2014, ANSI C63.4-2009

Test Report Form No. : LCSEMC-1.0

TRF Originator : Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF : Dated 2011-03

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Test Item Description : Wireless USB Adapter

Trade Mark : Panda Wireless

Model/ Type Reference : PAU07

Ratings : DC 5.0V, 330mA

Result : Positive

Compiled by:

Jacky Li

Supervised by:

Danny Huang

Approved by:

Gavin Liang

Jacky Li/ File administrators

Danny Huang/ Technique principal

Gavin Liang/ Manager

FCC -- TEST REPORT

Test Report No. : LCS1501120364E

January 06, 2015
Date of issue

Type / Model..... : PAU07

EUT..... : Wireless USB Adapter

Applicant..... : Panda Wireless, Inc.

Address..... : 15559 Union Ave, Suite 300, Los Gatos, CALIFORNIA 95032

Telephone..... : /

Fax..... : /

Contact..... : /

Manufacturer..... : Panda Wireless, Inc.

Address..... : 15559 Union Ave, Suite 300, Los Gatos, CALIFORNIA 95032

Telephone..... : /

Fax..... : /

Contact..... : /

Factory..... : Panda Wireless, Inc.

Address..... : 15559 Union Ave, Suite 300, Los Gatos, CALIFORNIA 95032

Telephone..... : /

Fax..... : /

Contact..... : /

Test Result according to the standards on page 5: **Positive**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

| EMISSION | | | |
|--|------------------------------------|---------|---------|
| Description of Test Item | Standard | Limits | Results |
| Conducted disturbance at mains terminals | FCC CFR 47 PART 15 Subpart B: 2014 | Class B | PASS |
| Radiated disturbance | FCC CFR 47 PART 15 Subpart B: 2014 | Class B | PASS |

N/A is an abbreviation for Not Applicable.

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

| | |
|-------------------|---|
| EUT | : Wireless USB Adapter |
| Model No. | : PAU07 |
| Channel frequency | : 2412.00-2462.00MHz (Channel Frequency=2412+5(K-1), K=1, 2, 311) for 11 channels 2422.00-2452.00MHz (Channel Frequency=2412+5(K-1), K=1, 2, 39) for 7channels 5180.00-5240.00MHz(Channel Frequency=5180+20(K-1), K=1, 2, 3, 4) for 4 channels 5745.00-5805.00MHz(Channel Frequency=5745+20(K-1), K=1, 2, 3, 4) for 4 channels |
| Channel Spacing | : 5MHz for 802.11b/g/n 20MHz for 802.11a |
| Modulation Type | : IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM,QPSK,BPSK) IEEE 802.11a: OFDM (64QAM, 16QAM,QPSK,BPSK) |
| Antenna Gain | : PCB antenna, 2.0dBi(Max.) |
| Input Voltage | : DC 5.0V, 330mA |

2.2. Description of Test Facility

Site Description

EMC Lab. : Accredited by CNAS, June 04, 2010
 The Certificate Registration Number. is L4595.
 Accredited by FCC, July 14, 2011
 The Certificate Registration Number. is 899208.
 Accredited by Industry Canada, May. 02, 2011
 The Certificate Registration Number. is 9642A-1
 Accredited by VCCI, Japan January 30, 2012
 The Certificate Registration Number. is C-4260 and R-3804
 Accredited by ESMD, April 24, 2012
 The Certificate Registration Number. is ARCB0108.
 Accredited by UL, June 11, 2012
 The Certificate Registration Number. is 100571-492.
 Accredited by TUV, November 21, 2012
 The Certificate Registration Number. is SCN1081
 Accredited by Intertek, December 21, 2012
 The Certificate Registration Number. is 2011-RTL-L1-50.

2.3. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

2.4. Measurement Uncertainty

| Test Item | Frequency Range | Uncertainty | Note |
|------------------------|-----------------|-------------|------|
| Radiation Uncertainty | 30MHz~200MHz | ±2.96dB | (1) |
| | 200MHz~1000MHz | ±3.10dB | (1) |
| Conduction Uncertainty | 150kHz~30MHz | ±1.63dB | (1) |
| Power disturbance | 30MHz~300MHz | ±1.60dB | (1) |

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

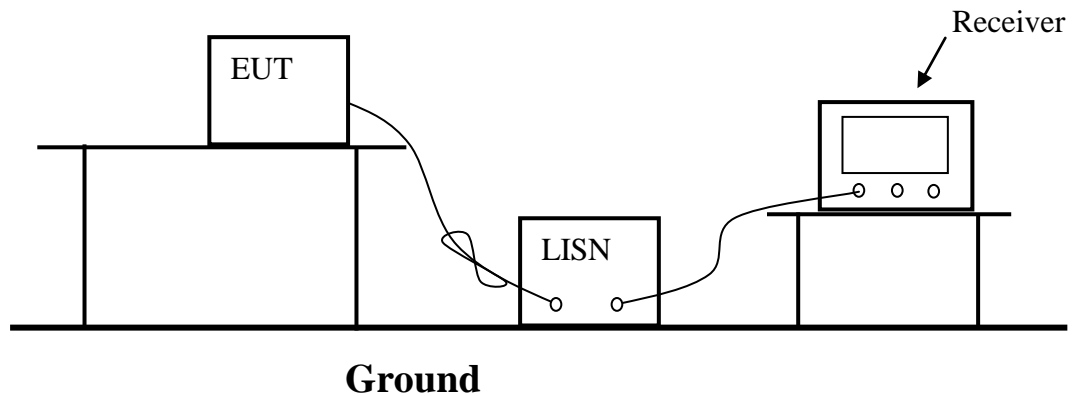
3. POWER LINE CONDUCTED MEASUREMENT

3.1. Test Equipment

The following test equipments are used during the power line conducted measurement:

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Next Cal. |
|------|-------------------|--------------|-----------|------------|------------|------------|
| 1 | EMI Test Receiver | R & S | ESCI | 101142 | 2014/06/18 | 2015/06/17 |
| 2 | EMI Test Receiver | R & S | ESPI | 101840 | 2014/06/18 | 2015/06/17 |
| 3 | Artificial Mains | R & S | ENV216 | 101288 | 2014/06/19 | 2015/06/18 |
| 4 | EMI Test Software | AUDIX | E3 | N/A | 2014/06/18 | 2015/06/17 |

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Measurement Limits (Class B)

| Frequency of Emission (MHz) | Conducted Limit (dBuV) | |
|--------------------------------|------------------------|---------|
| | Quasi-peak | Average |
| 0.15 ~ 0.50 | 66-56 | 56-46 |
| 0.50 ~ 5.00 | 56 | 46 |
| 5.00 ~ 30.00 | 60 | 50 |

- Notes: 1. *Decreasing linearly with logarithm of frequency.
 2. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 3.2.

3.5.2. Turn on the power of all equipment.

3.5.3. Let the EUT work in test mode (ON) and measure it.

3.6. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC/ANSI C63.4-2009 on Conducted Emission Measurement.

The bandwidth of test receiver is set at 9kHz.

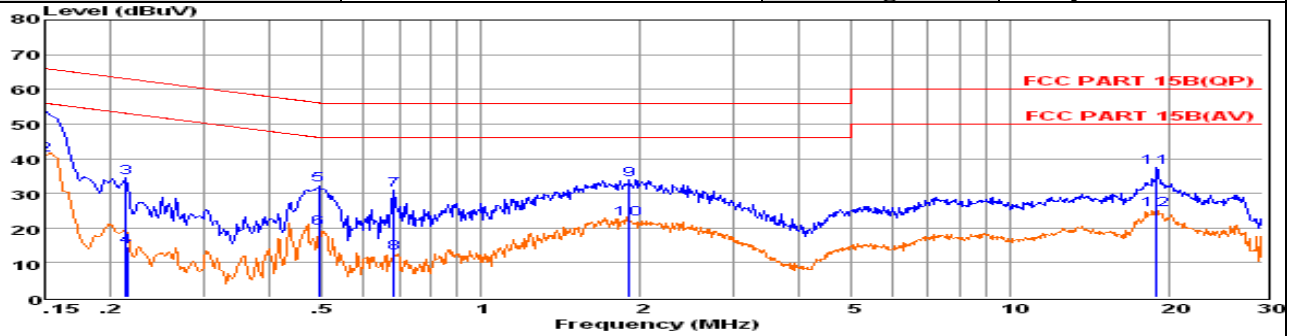
The frequency range from 150kHz to 30MHz is checked.

3.7. Power Line Conducted Emission Measurement Results

PASS.

All the scanning waveforms for Conducted Emission Measurement are refer to the next page. Only record the worst results.

| | | | |
|---------------------------------|--------------|----------------------|------------------|
| Model No. | PAU07 | Test Date | January 06, 2015 |
| Environmental Conditions | 24°C, 56% RH | Test Mode | Connect to PC |
| Pol | Line | Test Engineer | Jacky |

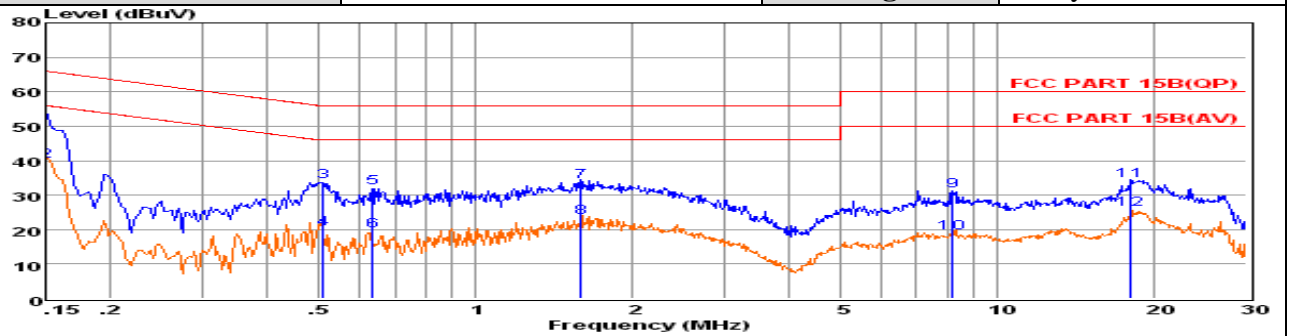


Env. Ins: 24*/56%
 EUT: Wireless USB Adapter
 M/N: PAU07
 Power Rating: AC 120V/60Hz
 Test Mode: Connect to PC
 Operator: Jacky
 Memo:
 Pol: LINE

| Freq | Reading | LisnFac | CabLos | Atten_Fac | Measured | Limit | Over | Remark |
|------------|---------|---------|--------|-----------|----------|-------|--------|---------|
| MHz | dBuV | dB | dB | dB | dBuV | dBuV | dB | |
| 1 0.15000 | 34.09 | 9.57 | 0.02 | 10.00 | 53.68 | 66.00 | -12.32 | QP |
| 2 0.15010 | 21.41 | 9.57 | 0.02 | 10.00 | 41.00 | 55.99 | -14.99 | Average |
| 3 0.21392 | 14.85 | 9.63 | 0.03 | 10.00 | 34.51 | 63.05 | -28.54 | QP |
| 4 0.21412 | -5.15 | 9.63 | 0.03 | 10.00 | 14.51 | 53.04 | -38.53 | Average |
| 5 0.49411 | 12.68 | 9.62 | 0.04 | 10.00 | 32.34 | 56.10 | -23.76 | QP |
| 6 0.49421 | 0.18 | 9.62 | 0.04 | 10.00 | 19.84 | 46.10 | -26.26 | Average |
| 7 0.68626 | 11.34 | 9.64 | 0.04 | 10.00 | 31.02 | 56.00 | -24.98 | QP |
| 8 0.68636 | -6.99 | 9.64 | 0.04 | 10.00 | 12.69 | 46.00 | -33.31 | Average |
| 9 1.90803 | 14.09 | 9.64 | 0.05 | 10.00 | 33.78 | 56.00 | -22.22 | QP |
| 10 1.90903 | 2.87 | 9.64 | 0.05 | 10.00 | 22.56 | 46.00 | -23.44 | Average |
| 1118.92046 | 17.71 | 9.75 | 0.11 | 10.00 | 37.57 | 60.00 | -22.43 | QP |
| 1218.92146 | 5.47 | 9.75 | 0.11 | 10.00 | 25.33 | 50.00 | -24.67 | Average |

Remarks: 1. Measured = Reading + Lisn Factor +Cable Loss+Atten_Fac.
 2. The emission levels that are 20dB below the official limit are not reported.

| | | | |
|---------------------------------|--------------|----------------------|------------------|
| Model No. | PAU07 | Test Date | January 06, 2015 |
| Environmental Conditions | 24°C, 56% RH | Test Mode | Connect to PC |
| Pol | Neutral | Test Engineer | Jacky |



Env. Ins: 24*/56%
 EUT: Wireless USB Adapter
 M/N: PAU07
 Power Rating: AC 120V/60Hz
 Test Mode: Connect to PC
 Operator: Jacky
 Memo:
 Pol: NEUTRAL

| Freq | Reading | LisnFac | CabLos | Atten_Fac | Measured | Limit | Over | Remark |
|------------|---------|---------|--------|-----------|----------|-------|--------|---------|
| MHz | dBuV | dB | dB | dB | dBuV | dBuV | dB | |
| 1 0.15000 | 34.69 | 9.70 | 0.02 | 10.00 | 54.41 | 66.00 | -11.59 | QP |
| 2 0.15010 | 20.07 | 9.70 | 0.02 | 10.00 | 39.79 | 55.99 | -16.20 | Average |
| 3 0.51007 | 14.12 | 9.62 | 0.04 | 10.00 | 33.78 | 56.00 | -22.22 | QP |
| 4 0.51017 | 0.45 | 9.62 | 0.04 | 10.00 | 20.11 | 46.00 | -25.89 | Average |
| 5 0.63383 | 12.40 | 9.63 | 0.04 | 10.00 | 32.07 | 56.00 | -23.93 | QP |
| 6 0.63393 | -0.01 | 9.63 | 0.04 | 10.00 | 19.66 | 46.00 | -26.34 | Average |
| 7 1.59350 | 14.32 | 9.63 | 0.05 | 10.00 | 34.00 | 56.00 | -22.00 | QP |
| 8 1.59450 | 3.87 | 9.63 | 0.05 | 10.00 | 23.55 | 46.00 | -22.45 | Average |
| 9 8.19160 | 11.32 | 9.70 | 0.07 | 10.00 | 31.09 | 60.00 | -28.91 | QP |
| 10 8.19260 | -0.70 | 9.70 | 0.07 | 10.00 | 19.07 | 50.00 | -30.93 | Average |
| 1118.03941 | 14.39 | 9.81 | 0.11 | 10.00 | 34.31 | 60.00 | -25.69 | QP |
| 1218.04141 | 5.98 | 9.81 | 0.11 | 10.00 | 25.90 | 50.00 | -24.10 | Average |

Remarks: 1. Measured = Reading + Lisn Factor +Cable Loss+Atten_Fac.
 2. The emission levels that are 20dB below the official limit are not reported.

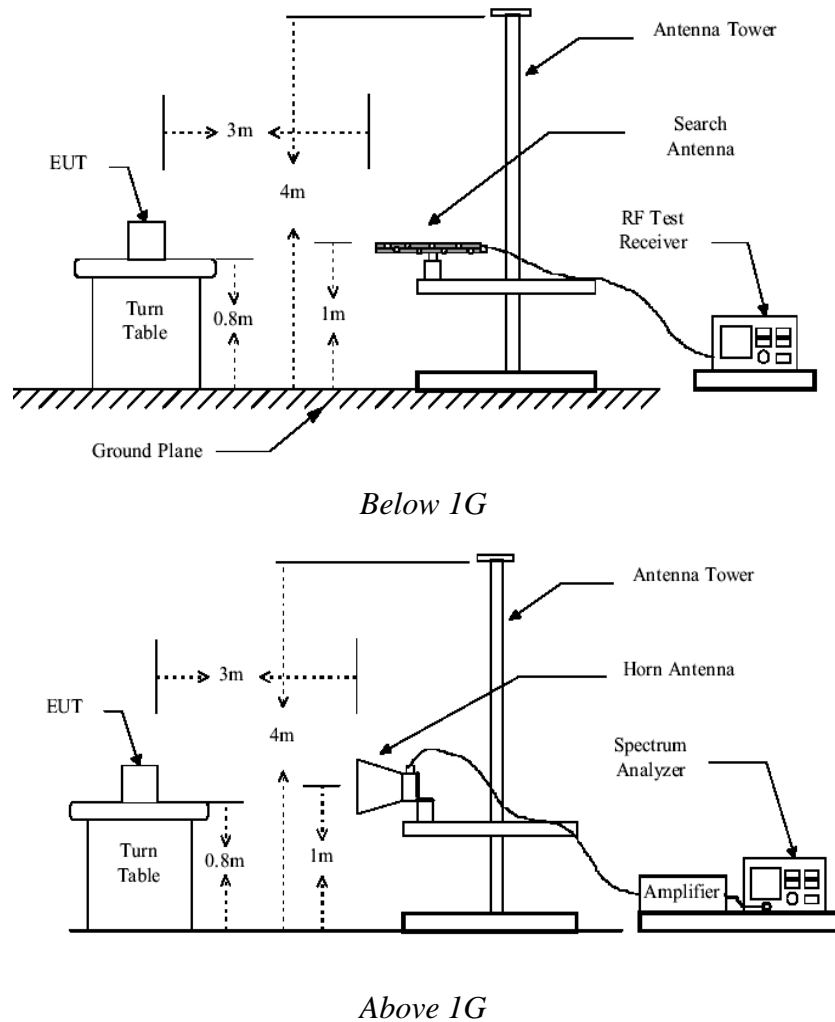
4. RADIATED EMISSION MEASUREMENT

4.1. Test Equipment

The following test equipments are used during the radiated emission measurement:

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Last Cal. |
|------|-------------------|--------------|-----------|-----------------|------------|------------|
| 1 | EMI Test Receiver | R & S | ESCI | 101142 | 2014/06/18 | 2015/06/17 |
| 2 | EMI Test Receiver | R & S | ESPI | 101840 | 2014/06/18 | 2015/06/17 |
| 3 | Log per Antenna | R & S | VULB9163 | 9163-470 | 2014/06/21 | 2015/06/20 |
| 4 | Spectrum Analyzer | Agilent | E4407B | MY41440754 | 2014/07/16 | 2015/07/15 |
| 5 | Horn Antenna | ETS.LINDGREN | 3115 | 00034771 | 2014/12/11 | 2015/12/10 |
| 6 | Horn Antenna | SCHWARZBECK | BBHA9170 | BBHA91701 54 | 2014/06/10 | 2015/07/09 |
| 7 | EMI Test Software | AUDIX | E3 | N/A | 2014/06/18 | 2015/06/17 |

4.2. Block Diagram of Test Setup



4.3. Radiated Emission Limit (Class B)

Limits for radiated disturbance Blow 1GHz

| FREQUENCY MHz | DISTANCE Meters | FIELD STRENGTHS LIMIT | |
|------------------|--------------------|-----------------------|------------------|
| | | dB(μV)/m | dB(μV)/m |
| 30 ~ 40 | 3 | 40.0 | Quasi-peak Value |
| 88 ~ 43.5 | 3 | 43.5 | Quasi-peak Value |
| 216 ~ 46 | 3 | 46.0 | Quasi-peak Value |
| 960 ~ 54 | 3 | 54.0 | Quasi-peak Value |
| Above 1GHz | 3 | 54 | Average Value |
| | 3 | 74 | Peak Value |

Remark : (1) Emission level (dB)μV = 20 log Emission level μV/m
 (2) The smaller limit shall apply at the cross point between two frequency bands.
 (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.4. EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.5. Operating Condition of EUT

- 4.5.1. Setup the EUT as shown in Section 4.2.
- 4.5.2. Let the EUT work in test mode (on) and measure it.

4.6. Test Procedure

EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated by-log antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2009 on radiated emission measurement. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Below 1G:
 The bandwidth of the EMI test receiver is set at 120kHz, 1000kHz.

The frequency range from 30MHz to 1000MHz is checked.

Above 1G:

The bandwidth of the EMI test receiver is set at 1MHz, 3MHz for Peak detector.

The bandwidth of the EMI test receiver is set at 1MHz, 10Hz for Average detector

The frequency range from 1GHz to 24GHz is checked.

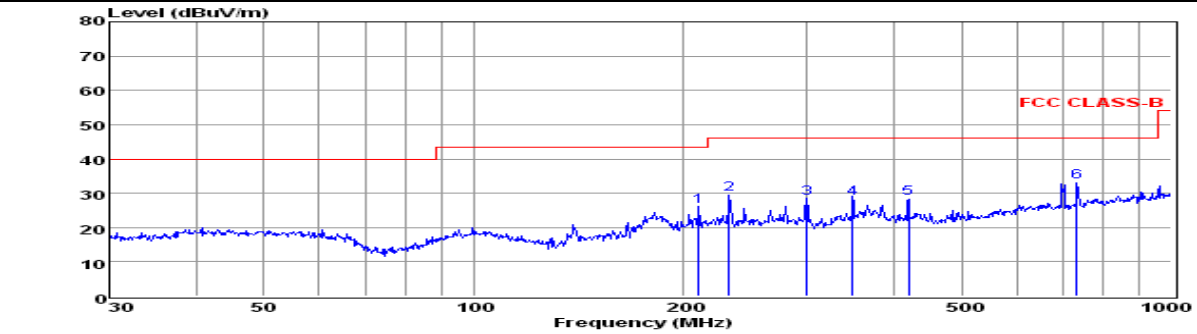
4.7. Radiated Emission Noise Measurement Result

PASS.

The scanning waveforms please refer to the next page. Only record the worst results.

Below 30MHz the result is too low so we did not show it.

| | | | |
|---------------------------------|--------------|--------------------------|------------------|
| Model No. | PAU07 | Test Date | January 06, 2015 |
| Environmental Conditions | 24°C, 56% RH | Test Mode | Connect to PC |
| Pol | Vertical | Detector Function | Quasi-peak |
| Test Engineer | Jacky | Distance | 3m |

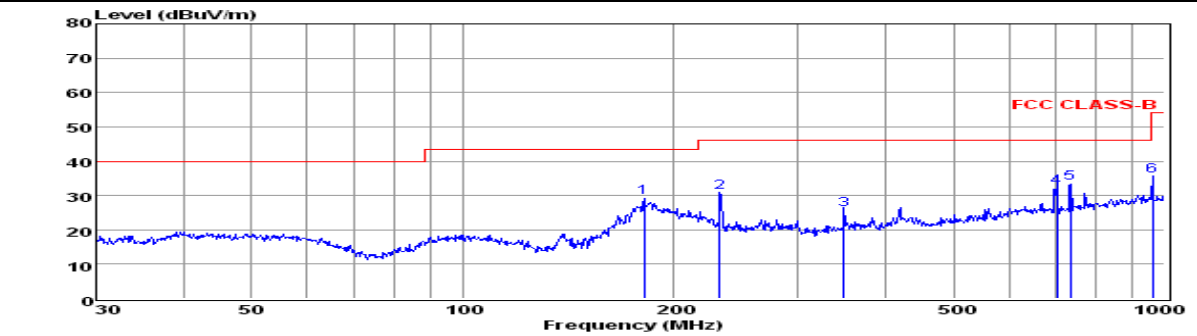


Env./Ins: 24°C/56%
 EUT: Wireless USB Adapter
 M/N: PAU07
 Power Rating: DC 5V
 Test Mode: Connect to PC
 Operator: Jacky
 Memo:
 pol: VERTICAL

| | Freq | Reading | CabLos | Antfac | Measured | Limit | Over | Remark |
|---|--------|---------|--------|--------|----------|--------|--------|--------|
| | MHz | dBuV | dB | dB/m | dBuV/m | dBuV/m | dB | |
| 1 | 210.05 | 14.31 | 0.93 | 10.89 | 26.13 | 43.50 | -17.37 | QP |
| 2 | 232.53 | 16.91 | 0.98 | 11.76 | 29.65 | 46.00 | -16.35 | QP |
| 3 | 300.37 | 14.33 | 1.13 | 13.06 | 28.52 | 46.00 | -17.48 | QP |
| 4 | 349.25 | 13.14 | 1.13 | 14.26 | 28.53 | 46.00 | -17.47 | QP |
| 5 | 420.58 | 11.61 | 1.33 | 15.47 | 28.41 | 46.00 | -17.59 | QP |
| 6 | 731.92 | 12.61 | 1.62 | 19.21 | 33.44 | 46.00 | -12.56 | QP |

Note: 1. All readings are Quasi-peak values.
 2. Measured= Reading + Antenna Factor + Cable Loss
 3. The emission that are 20db below the official limit are not reported

| | | | |
|---------------------------------|--------------|--------------------------|------------------|
| Model No. | PAU07 | Test Date | January 06, 2015 |
| Environmental Conditions | 24°C, 56% RH | Test Mode | Connect to PC |
| Pol | Horizontal | Detector Function | Quasi-peak |
| Test Engineer | Jacky | Distance | 3m |



Env./Ins: 24°C/56%
 EUT: Wireless USB Adapter
 M/N: PAU07
 Power Rating: DC 5V
 Test Mode: Connect to PC
 Operator: Jacky
 Memo:
 pol: HORIZONTAL

| | Freq | Reading | CabLos | Antfac | Measured | Limit | Over | Remark |
|---|--------|---------|--------|--------|----------|--------|--------|--------|
| | MHz | dBuV | dB | dB/m | dBuV/m | dBuV/m | dB | |
| 1 | 181.28 | 18.86 | 0.89 | 9.79 | 29.54 | 43.50 | -13.96 | QP |
| 2 | 232.53 | 18.27 | 0.98 | 11.76 | 31.01 | 46.00 | -14.99 | QP |
| 3 | 349.25 | 10.39 | 1.13 | 14.26 | 25.78 | 46.00 | -20.22 | QP |
| 4 | 701.76 | 12.03 | 1.70 | 18.83 | 32.56 | 46.00 | -13.44 | QP |
| 5 | 734.49 | 12.69 | 1.74 | 19.24 | 33.67 | 46.00 | -12.33 | QP |
| 6 | 962.16 | 12.06 | 2.01 | 21.49 | 35.56 | 54.00 | -18.44 | QP |

Note: 1. All readings are Quasi-peak values.
 2. Measured= Reading + Antenna Factor + Cable Loss
 3. The emission that are 20db below the official limit are not reported

| | |
|--------------------------------------|-----------------------------|
| Test Mode: Mode 1(above 1GHz) | Tested by: Jacky |
| Test voltage: DC 5V | Test Distance: 3m |
| Detector Function: Peak+AV | Test Results: Passed |

| Polarization | Frequency MHz | Emission Level | | Limits | | Margin | |
|--------------|---------------|----------------|-------|--------------|-------|--------------|--------|
| | | dB μ V/m | | dB μ V/m | | dB μ V/m | |
| Horizontal | 1256.31 | 58.02 | 41.16 | 74.00 | 54.00 | -15.98 | -12.84 |
| | 1385.48 | 60.71 | 43.74 | 74.00 | 54.00 | -13.29 | -10.26 |
| | 2986.85 | 61.84 | 44.32 | 74.00 | 54.00 | -12.16 | -9.68 |
| | 3657.47 | 65.36 | 47.48 | 74.00 | 54.00 | -8.64 | -6.52 |
| | 3925.08 | 62.29 | 45.08 | 74.00 | 54.00 | -11.71 | -8.92 |
| | 4436.74 | 64.12 | 45.94 | 74.00 | 54.00 | -9.88 | -8.06 |
| Vertical | 1289.54 | 58.41 | 41.69 | 74.00 | 54.00 | -15.59 | -12.31 |
| | 1396.74 | 60.74 | 43.13 | 74.00 | 54.00 | -13.26 | -10.87 |
| | 2899.07 | 60.86 | 44.81 | 74.00 | 54.00 | -13.14 | -9.19 |
| | 3584.64 | 61.09 | 44.26 | 74.00 | 54.00 | -12.91 | -9.74 |
| | 3867.41 | 62.41 | 45.55 | 74.00 | 54.00 | -11.59 | -8.45 |
| | 4596.68 | 63.87 | 45.47 | 74.00 | 54.00 | -10.13 | -8.53 |

Notes:

1. Measuring frequencies from 9k~26.5GHz , No emission found between lowest internal used/generated frequency to 30MHz.
2. Radiated emissions measured in frequency range from 9k~26.5GHz were made with an instrument using Peak detector mode.
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 measure

5. MANUFACTURER/ APPROVAL HOLDER DECLARATION

The following identical model(s):

| | | | |
|----|----|----|----|
| -- | -- | -- | -- |
|----|----|----|----|

Belong to the tested device:

Product description : Wireless USB Adapter

Model name : PAU07

Remark: No additional models were tested.

-----THE END OF REPORT-----