

FCC Test Report

(Class II Permissive Change)

| Product Name | Model 7260HMW Wireless Network Adapter |
|--------------|--|
| Model No. | 7260HMW |
| FCC ID. | MSQ7260H |

| Applicant | ASUSTeK COMPUTER INC. | | |
|-----------|--|--|--|
| Address | 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan | | |

| Date of Receipt | May 08, 2014 |
|-----------------|-----------------------|
| Issued Date | Jun. 12, 2014 |
| Report No. | 1450257R-RFUSP23V00-A |
| Report Version | V1.0 |





The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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Test Report

Issued Date: Jun. 12, 2014

Report No.: 1450257R-RFUSP23V00-A



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|---------------------|--|--|--|
| Product Name | Model 7260HMW Wireless Network Adapter | | |
| Applicant | ASUSTeK COMPUTER INC. | | |
| Address | 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan | | |
| Manufacturer | Intel Mobile Communications | | |
| Model No. | 7260HMW | | |
| FCC ID. | MSQ7260H | | |
| EUT Rated Voltage | DC 3.3V (via Mini-PCI Express slot) | | |
| EUT Test Voltage | AC 120V/ 60Hz | | |
| Trade Name | Intel | | |
| Applicable Standard | FCC CFR Title 47 Part 15 Subpart C: 2012 | | |
| | ANSI C63.10: 2009, KDB 558074 | | |
| Test Result | Complied | | |

| Documented By | : | Rita Fluang |
|---------------|---|---|
| | | (Senior Adm. Specialist / Rita Huang) |
| Tested By | : | Andy Lin |
| | | (Engineer / Andy Lin) |
| Approved By | : | Homes? |

(Director / Vincent Lin)



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Attachment 1: EUT Test Photographs
Attachment 2: EUT Detailed Photographs



1. GENERAL INFORMATION

1.1. EUT Description

| Product Name | Model 7260HMW Wireless Network Adapter | | |
|-----------------------------|--|--|--|
| Trade Name | Intel | | |
| Model No. | 7260HMW | | |
| FCC ID. | MSQ7260H | | |
| Frequency Range | 2402 – 2480MHz | | |
| Channel Number | V4.0: 40CH | | |
| Type of Modulation | V4.0: GFSK (1Mbps) | | |
| Antenna Type | PIFA Antenna | | |
| Channel Control | Auto | | |
| Antenna Gain | Refer to the table "Antenna List" | | |
| Test Platform.(Notebook PC) | Brand Name: ASUS, M/N: Q551L / N591L | | |
| Power Adapter | MFR: PI, M/N: AD887320 | | |
| | INPUT: 100-240V, 50-60Hz, 1.5A | | |
| | OUTPUT: 19V, 3.42A | | |
| | Cable out: Non-shielded, 2.3m | | |

Antenna List

| No. | Manufacturer | Part No. | Antenna Type | Peak Gain |
|-----|--------------|------------------------------|--------------|--------------------|
| 1 | ACON | APP6P-701177 (Main)(Aux) | PIFA | 1.12dBi For 2.4GHz |
| 2 | INPAQ | WA-F-LBLB-04-025 (Main)(Aux) | PIFA | 1.01dBi For 2.4GHz |

Note: 1. The antenna of EUT is conform to FCC 15.203.

2. Only the higher gain antenna was tested and recorded in this report.



Center Frequency of Each Channel:

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| Channel 00: | 2402 MHz | Channel 01: | 2404 MHz | Channel 02: | 2406 MHz | Channel 03: | 2408 MHz |
| Channel 04: | 2410 MHz | Channel 05: | 2412 MHz | Channel 06: | 2414 MHz | Channel 07: | 2416 MHz |
| Channel 08: | 2418 MHz | Channel 09: | 2420 MHz | Channel 10: | 2422 MHz | Channel 11: | 2424 MHz |
| Channel 12: | 2426 MHz | Channel 13: | 2428 MHz | Channel 14: | 2430 MHz | Channel 15: | 2432 MHz |
| Channel 16: | 2434 MHz | Channel 17: | 2436 MHz | Channel 18: | 2438 MHz | Channel 19: | 2440 MHz |
| Channel 20: | 2442 MHz | Channel 21: | 2444 MHz | Channel 22: | 2446 MHz | Channel 23: | 2448 MHz |
| Channel 24: | 2450 MHz | Channel 25: | 2452 MHz | Channel 26: | 2454 MHz | Channel 27: | 2456 MHz |
| Channel 28: | 2458 MHz | Channel 29: | 2460 MHz | Channel 30: | 2462 MHz | Channel 31: | 2464 MHz |
| Channel 32: | 2466 MHz | Channel 33: | 2468 MHz | Channel 34: | 2470 MHz | Channel 35: | 2472 MHz |
| Channel 36: | 2474 MHz | Channel 37: | 2476 MHz | Channel 38: | 2478 MHz | Channel 39: | 2480 MHz |

Note:

- 1. The EUT is a Model 7260HMW Wireless Network Adapter with a built-in WLAN and Bluetooth V4.0 V3.0, V2.1+EDR transceiver, this report for Bluetooth V4.0.
- 2. The Hardware is identical for two models, the differences between the models is sale via different distributors.
- 3. These tests were conducted on a sample for the purpose of demonstrating compliance of Bluetooth transmitter with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.
- 4. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
- 5. This is to request a Class II permissive change for FCC ID: MSQ7260H, originally granted on 04/19/2014.

The major change filed under this application is:

- Change #1: Additional Chassis added, Model number: Q551L, N591L
 - #2: Reduce the Output Power through firmware (only reduce Wi-Fi Power, Bluetooth power haven't changes).
 - #3: Addition two new antennas, the antenna type is the same, the antenna gain is smaller than the original application.

| est Mode | Mode 1: Transmit |
|----------|------------------|
|----------|------------------|



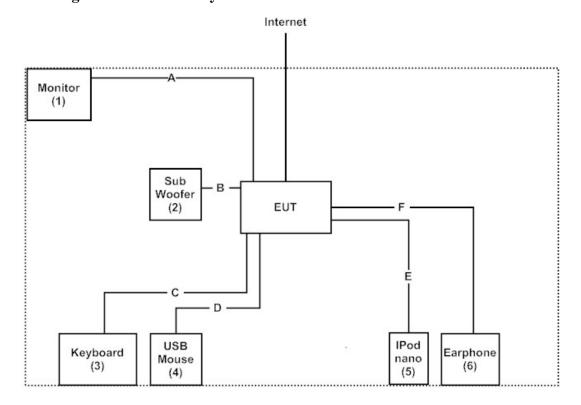
1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

| Proc | luct | Manufacturer | Model No. | Serial No. | Power Cord |
|------|------------|--------------|-----------|--------------------------|--------------------|
| 1 | Monitor | Dell | ST2320LF | CN-QM2NN6-72892-221-C9WS | Non-Shielded, 1.8m |
| 2 | Sub Woofer | ASUS | N/A | N/A | N/A |
| 3 | Keyboard | DELL | SK-8115 | MY-0DJ325-71619-6A3-1918 | N/A |
| 4 | USB Mouse | Logitech | M-U0003 | LZ024HR | N/A |
| 5 | IPod nano | Apple | A1199 | 7R649LBKVQ5 | N/A |
| 6 | Earphone | Dr.AV | CD-806B | N/A | N/A |

| Sign | al Cable Type | Signal cable Description |
|------|----------------|---|
| A | HDMI Cable | Non-Shielded, 1.3m |
| В | Speaker Cable | Non-Shielded, 0.45 |
| C | Keyboard Cable | Non-Shielded, 1.7m, with one ferrite core bonded. |
| D | Mouse Cable | Non-Shielded, 1.8m |
| Е | I-Pod Cable | Non-Shielded, 1.2m |
| F | Earphone Cable | Non-Shielded, 1.6m |

1.4. Configuration of Tested System





1.5. EUT Exercise Software

- (1) Setup the EUT as shown in Section 1.4
- (2) Execute "DRTU Ver1.7.0-778" program on the Notebook PC.
- (3) Configure the test mode, the test channel, and the data rate.
- (4) Start transmits continually.
- (5) Verify that the EUT works properly.



1.6. Test Facility

Ambient conditions in the laboratory:

| Items | Required (IEC 68-1) | Actual |
|----------------------------|---------------------|----------|
| Temperature (°C) | 15-35 | 20-35 |
| Humidity (%RH) | 25-75 | 30-65 |
| Barometric pressure (mbar) | 860-1060 | 950-1000 |

The related certificate for our laboratories about the test site and management system can be downloaded from QuieTek Corporation's Web Site: http://www.quietek.com/tw/ctg/cts/accreditations.htm
The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site: http://www.quietek.com/

Site Description: File on

Federal Communications Commission

FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046

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FCC Accreditation Number: TW1014



2. Peak Power Output

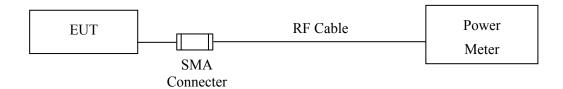
2.1. Test Equipment

| | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|---|-------------------|--------------|----------------------|------------|
| X | Power Meter | Anritsu | ML2495A/6K00003357 | May, 2014 |
| X | Power Sensor | Anritsu | MA2411B/0738448 | Jun., 2014 |
| | Spectrum Analyzer | Agilent | N9010A / MY48030495 | Apr., 2014 |

Note: 1. All equipments are calibrated every one year.

2. The test instruments marked by "X" are used to measure the final test results.

2.2. Test Setup



2.3. Limit

The maximum peak power shall be less 1Watt.

2.4. Test Procedure

The EUT was tested according to DTS test procedure of KDB 558074 for compliance to FCC 47CFR 15.247 requirements. The maximum peak conducted output power using KDB 558074 section 9.1.3 PKPM1 Peak power meter method.

Note: the power meter have a video bandwidth that is greater than or equal to the measurement bandwidth, (Anritsu/ MA2411B video bandwidth: 65MHz)

2.5. Uncertainty

 \pm 1.27 dB



2.6. Test Result of Peak Power Output

Product : Model 7260HMW Wireless Network Adapter

Test Item : Peak Power Output

Test Site : No.3 OATS

Test Mode : Mode 1: Transmit

| Channel No. | Frequency Measurement | | Required Limit | Result |
|-------------|-----------------------|-------|----------------|--------|
| | (MHz) | (dBm) | | |
| Channel 00 | 2402.00 | 2.75 | 1 Watt= 30 dBm | Pass |
| Channel 19 | 2440.00 | 3.57 | 1 Watt= 30 dBm | Pass |
| Channel 39 | 2480.00 | 4.48 | 1 Watt= 30 dBm | Pass |



3. Radiated Emission

3.1. Test Equipment

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

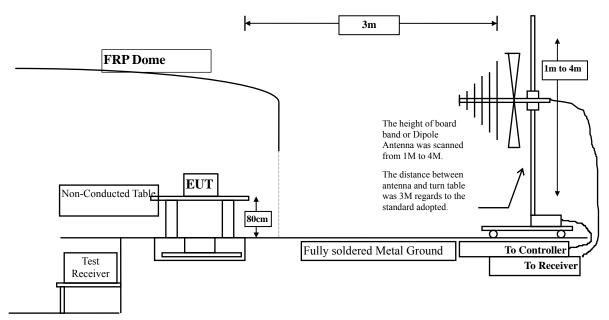
| Test Site | | Equipment | Manufacturer | Model No./Serial No. | Last Cal. |
|-----------|---|-------------------|-----------------|-----------------------|------------|
| ⊠Site # 3 | X | Loop Antenna | Teseq | HLA6120 / 26739 | Jul., 2013 |
| | X | Bilog Antenna | Schaffner Chase | CBL6112B/2673 | Sep., 2013 |
| | X | Horn Antenna | Schwarzbeck | BBHA9120D/D305 | Sep., 2013 |
| | X | Horn Antenna | Schwarzbeck | BBHA9170/208 | Jul., 2013 |
| | X | Pre-Amplifier | Agilent | 8447D/2944A09549 | Sep., 2013 |
| | X | Spectrum Analyzer | Agilent | E4407B / US39440758 | May, 2014 |
| | X | Test Receiver | R & S | ESCS 30/ 825442/018 | Sep., 2013 |
| | X | Coaxial Cable | QuieTek | QTK-CABLE/ CAB5 | Feb., 2014 |
| | X | Controller | QuieTek | QTK-CONTROLLER/ CTRL3 | N/A |
| | X | Coaxial Switch | Anritsu | MP59B/6200265729 | N/A |

Note: 1. All equipments are calibrated every one year.

2. The test instruments marked by "X" are used to measure the final test results.

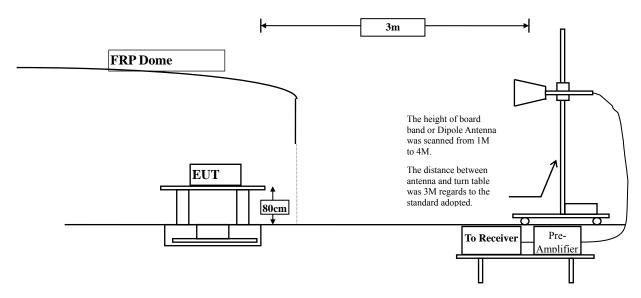
3.2. Test Setup

Below 1GHz





Above 1GHz



3.3. Limits

➤ General Radiated Emission Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

| FCC Part 15 Subpart C Paragraph 15.209 Limits | | | | | | |
|---|--------------------|----------------------|--|--|--|--|
| Frequency | Field strength | Measurement distance | | | | |
| MHz | (microvolts/meter) | (meter) | | | | |
| 0.009-0.490 | 2400/F(kHz) | 300 | | | | |
| 0.490-1.705 | 24000/F(kHz) | 30 | | | | |
| 1.705-30 | 30 | 30 | | | | |
| 30-88 | 100 | 3 | | | | |
| 88-216 | 150 | 3 | | | | |
| 216-960 | 200 | 3 | | | | |
| Above 960 | 500 | 3 | | | | |

Remarks: 1. RF Voltage $(dBuV) = 20 \log RF \text{ Voltage } (uV)$

- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.



3.4. Test Procedure

The EUT was setup according to ANSI C63.10, 2009 and tested according to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10, 2009 on radiated measurement.

The resolution bandwidth below 30MHz setting on the field strength meter is 9kHz and 30MHz~1GHz is 120kHz and above 1GHz is 1MHz.

Radiated emission measurements below 30MHz are made using Loop Antenna and 30MHz~1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna. The worst radiated emission is measured on the Final Measurement.

The measurement frequency range form 9kHz - 10th Harmonic of fundamental was investigated.

3.5. Uncertainty

- ± 3.9 dB above 1GHz
- ± 3.8 dB below 1GHz



3.6. Test Result of Radiated Emission

Product : Model 7260HMW Wireless Network Adapter

Test Item : Harmonic Radiated Emission

Test Site : No.3 OATS

Test Mode : Mode 1: Transmit (2402MHz)

| Level dBuV/m | dB | dBuV/m |
|-----------------|---------|----------------|
| dBuV/m | dB | dBuV/m |
| | | |
| | | |
| | | |
| 40.457 | -33.543 | 74.000 |
| 47.536 | -26.464 | 74.000 |
| 49.806 | -24.194 | 74.000 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| 46.137 | -27.863 | 74.000 |
| 47.725 | -26.275 | 74.000 |
| 50.183 | -23.817 | 74.000 |
| | | |
| | | |
| | 47.725 | 47.725 -26.275 |

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.



Test Item : Harmonic Radiated Emission

Test Site : No.3 OATS

Test Mode : Mode 1: Transmit (2440MHz)

| Frequency | - · | | Measurement | Margin | Limit |
|------------------|--------|--------|-------------|---------|--------|
| | Factor | Level | Level | | |
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 4880.000 | 3.010 | 37.630 | 40.640 | -33.360 | 74.000 |
| 7320.000 | 11.833 | 35.700 | 47.534 | -26.466 | 74.000 |
| 9760.000 | 12.580 | 36.900 | 49.481 | -24.519 | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| | | | | | |
| | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 4880.000 | 5.738 | 37.850 | 43.588 | -30.412 | 74.000 |
| 7320.000 | 12.703 | 35.360 | 48.063 | -25.937 | 74.000 |
| 9760.000 | 13.052 | 37.670 | 50.722 | -23.278 | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| | | | | | |

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.



Test Item : Harmonic Radiated Emission

Test Site : No.3 OATS

Test Mode : Mode 1: Transmit (2480MHz)

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|-----------------------|---------|---------|-------------|---------|--------|
| | Factor | Level | Level | | |
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| Horizontal | | | | | |
| Peak Detector: | | | | | |
| 4960.000 | 2.760 | 36.730 | 39.490 | -34.510 | 74.000 |
| 7440.000 | 12.567 | 34.850 | 47.416 | -26.584 | 74.000 |
| 9920.000 | 13.456 | 36.800 | 50.256 | -23.744 | 74.000 |
| Average | | | | | |
| Detector: | | | | | |
| | | | | | |
| Vertical | | | | | |
| Peak Detector: | | | | | |
| 4960.000 | 5.557 | 37.580 | 43.137 | -30.863 | 74.000 |
| 7440.000 | 13.426 | 34.870 | 48.295 | -25.705 | 74.000 |
| 9920.000 | 13.958 | 36.110 | 50.068 | -23.932 | 74.000 |
| Average | | | | | |
| Detector: | | | | | |

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.



Test Item : General Radiated Emission

Test Site : No.3 OATS

Test Mode : Mode 1: Transmit (2440MHz)

| Frequency | Correct | Reading | Measurement | Margin | Limit |
|------------|---------|---------|-------------|---------|--------|
| | Factor | Level | Level | | |
| MHz | dB | dBuV | dBuV/m | dB | dBuV/m |
| Horizontal | | | | | |
| 39.700 | -3.625 | 31.467 | 27.842 | -12.158 | 40.000 |
| 266.680 | -5.510 | 29.739 | 24.229 | -21.771 | 46.000 |
| 398.600 | 0.879 | 28.339 | 29.218 | -16.782 | 46.000 |
| 604.240 | 4.289 | 23.634 | 27.924 | -18.076 | 46.000 |
| 829.280 | 7.376 | 23.792 | 31.168 | -14.832 | 46.000 |
| 932.100 | 7.270 | 26.455 | 33.725 | -12.275 | 46.000 |
| | | | | | |
| Vertical | | | | | |
| 41.640 | -11.715 | 41.340 | 29.626 | -10.374 | 40.000 |
| 158.040 | -5.172 | 30.329 | 25.157 | -18.343 | 43.500 |
| 396.660 | -2.039 | 31.508 | 29.469 | -16.531 | 46.000 |
| 617.820 | 0.958 | 25.429 | 26.387 | -19.613 | 46.000 |
| 819.580 | 3.001 | 23.418 | 26.419 | -19.581 | 46.000 |
| 965.080 | 3.832 | 26.733 | 30.565 | -23.435 | 54.000 |

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. Measurement Level = Reading Level + Correct Factor.
- 5. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.
- 7. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 8. No emission found between lowest internal used/generated frequency to 30MHz.



4. Band Edge

4.1. Test Equipment

RF Radiated Measurement:

The following test equipments are used during the band edge tests:

| Test Site | Equipment | | Manufacturer | Model No./Serial No. | Last Cal. |
|-----------|-----------------|-------------------|-----------------|-----------------------|------------|
| ⊠Site # 3 | | Bilog Antenna | Schaffner Chase | CBL6112B/2673 | Sep., 2013 |
| | X | Horn Antenna | Schwarzbeck | BBHA9120D/D305 | Sep., 2013 |
| | | Horn Antenna | Schwarzbeck | BBHA9170/208 | Jul., 2013 |
| | X Pre-Amplifier | | Agilent | 8447D/2944A09549 | Sep., 2013 |
| | X | Spectrum Analyzer | Agilent | E4407B / US39440758 | May, 2014 |
| | | Test Receiver | R & S | ESCS 30/ 825442/018 | Sep., 2013 |
| | X | Coaxial Cable | QuieTek | QTK-CABLE/ CAB5 | Feb., 2014 |
| | X | Controller | QuieTek | QTK-CONTROLLER/ CTRL3 | N/A |
| | X | Coaxial Switch | Anritsu | MP59B/6200265729 | N/A |

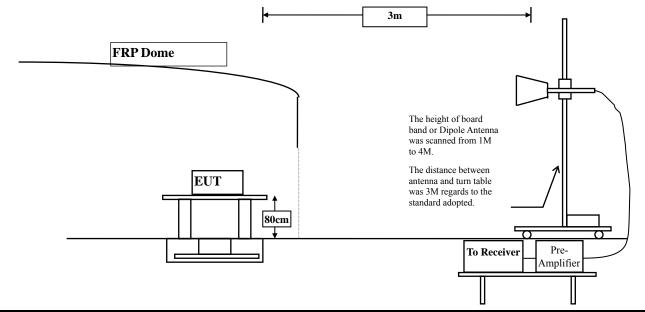
Note:

- 1. All equipments are calibrated every one year.
- 2. The test instruments marked by "X" are used to measure the final test results.

4.2. Test Setup

RF Radiated Measurement:

Above 1GHz



Page: 19 of 29



4.3. Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

4.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2009 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 kHz, above 1GHz are 1 MHz. The EUT was setup to ANSI C63.10: 2009; tested to FHSS test procedure of FCC Public Notice DA 00-705 for compliance to FCC 47CFR 15.247 requirements.

4.5. Uncertainty

- ± 3.9 dB above 1GHz
- + 3.8 dB below 1GHz



4.6. **Test Result of Band Edge**

Product Model 7260HMW Wireless Network Adapter

Test Item Band Edge No.3 OATS Test Site Test Mode Mode 1: Transmit

RF Radiated Measurement (Horizontal):

| THE THEORET PLANT CHICAL (1201 EDITED). | | | | | | | |
|---|-----------|----------------|---------------|----------------|----------|---------------|--------|
| Channel No. | Frequency | Correct Factor | Reading Level | Emission Level | | Average Limit | Result |
| Chamier 140. | (MHz) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dBuV/m) | resure |
| 00 (Peak) | 2341.800 | 11.669 | 42.796 | 54.465 | 74.00 | 54.00 | Pass |
| 00 (Peak) | 2361.600 | 11.785 | 46.028 | 57.813 | 74.00 | 54.00 | Pass |
| 00 (Peak) | 2382.200 | 11.674 | 43.325 | 54.999 | 74.00 | 54.00 | Pass |
| 00 (Peak) | 2390.000 | 11.672 | 36.108 | 47.780 | 74.00 | 54.00 | Pass |
| 00 (Peak) | 2400.000 | 11.703 | 74.099 | 85.801 | | | Pass |
| 00 (Peak) | 2402.000 | 11.709 | 95.602 | 107.311 | | | Pass |
| 00 (Average) | 2341.800 | 11.669 | 33.039 | 44.708 | 74.00 | 54.00 | Pass |
| 00 (Average) | 2362.000 | 11.787 | 36.222 | 48.009 | 74.00 | 54.00 | Pass |
| 00 (Average) | 2381.800 | 11.677 | 33.166 | 44.843 | 74.00 | 54.00 | Pass |
| 00 (Average) | 2390.000 | 11.672 | 24.580 | 36.252 | 74.00 | 54.00 | Pass |
| 00 (Average) | 2400.000 | 11.703 | 52.089 | 63.791 | | | Pass |
| 00 (Average) | 2402.000 | 11.709 | 72.091 | 83.800 | | | Pass |

Figure Channel 00:

Horizontal (Peak)

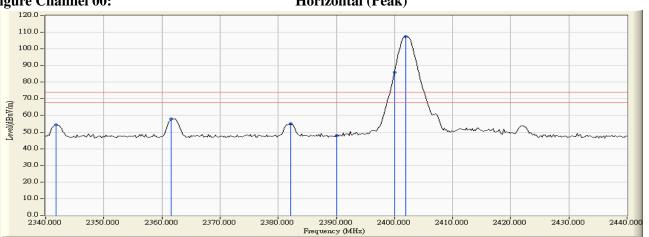
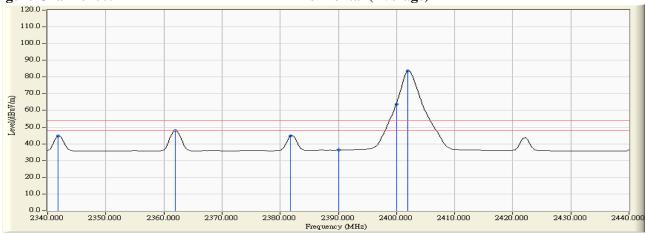


Figure Channel 00:

Horizontal (Average)



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- Note: 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
 - 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
 - 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
 - 4. "*", means this data is the worst emission level.
 - 5. Measurement Level = Reading Level + Correct Factor.
 - 6. The average measurement was not performed when the peak measured data under the limit of average detection.



Test Item : Band Edge Test Site : No.3 OATS

Test Mode : Mode 1: Transmit

RF Radiated Measurement (Vertical):

| Channel No. | Frequency | Correct Factor | Reading Level | Emission Level | Peak Limit | Average Limit | Result |
|--------------|-----------|----------------|---------------|----------------|------------|---------------|--------|
| Chamilei No. | (MHz) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dBuV/m) | Result |
| 00 (Peak) | 2341.800 | 11.669 | 41.267 | 52.936 | 74.00 | 54.00 | Pass |
| 00 (Peak) | 2362.400 | 11.788 | 42.982 | 54.770 | 74.00 | 54.00 | Pass |
| 00 (Peak) | 2381.600 | 11.678 | 40.612 | 52.291 | 74.00 | 54.00 | Pass |
| 00 (Peak) | 2390.000 | 11.672 | 35.768 | 47.440 | 74.00 | 54.00 | Pass |
| 00 (Peak) | 2400.000 | 11.703 | 70.278 | 81.980 | | | Pass |
| 00 (Peak) | 2402.000 | 11.709 | 91.669 | 103.378 | | | Pass |
| 00 (Average) | 2342.000 | 11.671 | 30.742 | 42.413 | 74.00 | 54.00 | Pass |
| 00 (Average) | 2362.200 | 11.787 | 33.486 | 45.273 | 74.00 | 54.00 | Pass |
| 00 (Average) | 2381.800 | 11.677 | 30.668 | 42.345 | 74.00 | 54.00 | Pass |
| 00 (Average) | 2390.000 | 11.672 | 24.196 | 35.868 | 74.00 | 54.00 | Pass |
| 00 (Average) | 2400.000 | 11.703 | 49.113 | 60.815 | | | Pass |
| 00 (Average) | 2402.200 | 11.709 | 69.396 | 81.105 | | | Pass |



Vertical (Peak)

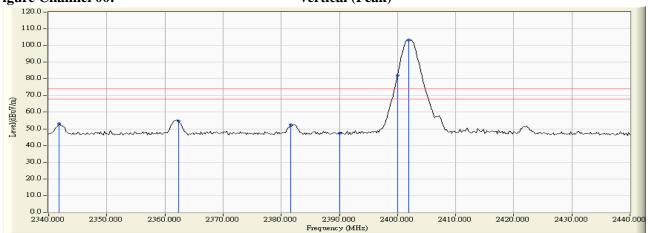
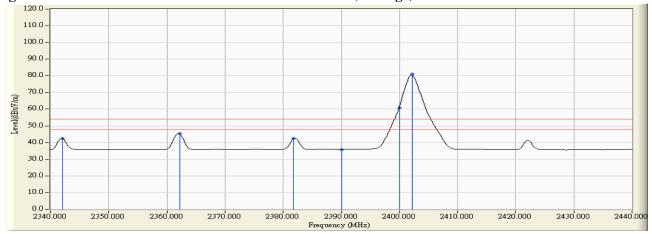


Figure Channel 00:

Vertical (Average)





- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

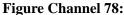


Test Item : Band Edge Test Site : No.3 OATS

Test Mode : Mode 1: Transmit

RF Radiated Measurement (Horizontal):

| Channel No. | Frequency | Correct Factor | Reading Level | Emission Level | Peak Limit | Average Limit | Result |
|--------------|-----------|----------------|---------------|----------------|------------|---------------|--------|
| | (MHz) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dBuV/m) | |
| 78 (Peak) | 2480.100 | 12.022 | 91.015 | 103.038 | | | Pass |
| 78 (Peak) | 2483.500 | 12.049 | 52.817 | 64.866 | 74.00 | 54.00 | Pass |
| 78 (Average) | 2479.900 | 12.021 | 68.242 | 80.263 | | | Pass |
| 78 (Average) | 2483.500 | 12.049 | 40.895 | 52.944 | 74.00 | 54.00 | Pass |



Horizontal (Peak)

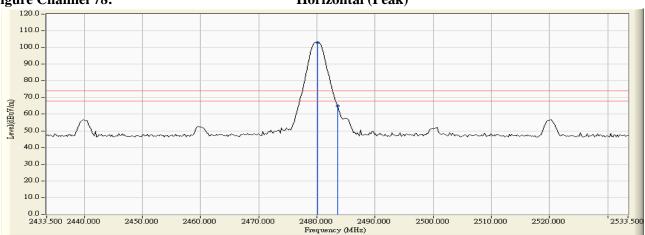
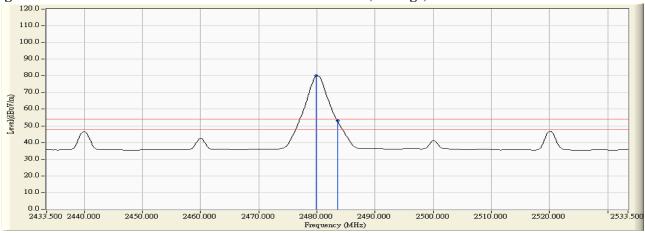


Figure Channel 78:

Horizontal (Average)



- Note: 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
 - 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
 - 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
 - 4. "*", means this data is the worst emission level.
 - 5. Measurement Level = Reading Level + Correct Factor.
 - 6. The average measurement was not performed when the peak measured data under the limit of average detection.



Test Item : Band Edge
Test Site : No.3 OATS

Test Mode : Mode 1: Transmit

RF Radiated Measurement (Vertical):

| Channel No. | Frequency | Correct Factor | Reading Level | Emission Level | Peak Limit | Average Limit | Result |
|--------------|-----------|----------------|---------------|----------------|------------|---------------|--------|
| | (MHz) | (dB) | (dBuV) | (dBuV/m) | (dBuV/m) | (dBuV/m) | |
| 78 (Peak) | 2480.100 | 12.022 | 90.602 | 102.625 | | | Pass |
| 78 (Peak) | 2483.500 | 12.049 | 52.371 | 64.420 | 74.00 | 54.00 | Pass |
| 78 (Average) | 2480.100 | 12.022 | 67.919 | 79.942 | | | Pass |
| 78 (Average) | 2483.500 | 12.049 | 40.539 | 52.588 | 74.00 | 54.00 | Pass |



Vertical (Peak)

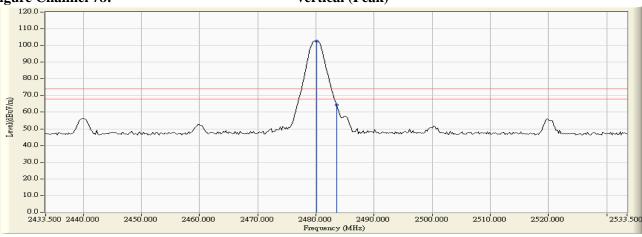
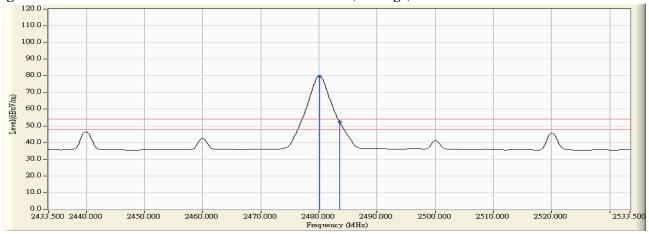


Figure Channel 78:

Vertical (Average)



- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.



5. EMI Reduction Method During Compliance Testing

No modification was made during testing.



Attachment 1: EUT Test Photographs



Attachment 2: EUT Detailed Photographs