

# **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	Mar. 25, 2014
Issued Date	Apr. 14, 2014
Report No.	1430488R-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: Apr. 14, 2014

Report No.: 1430488R-RFUSP23V00-A



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 Huang
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	_	(Engineer / Andy Lin)
Approved By	:	Stands
		( 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: N542L / Q502L
Power Adapter	MFR: DELTA (ASUS), M/N: ADP-45BW B
	Input: 100-240V, 50-60Hz, 1.2A
	Output: DC 19V==2.37A
	Cable out: Non-Shielded, 1.8m

## **Antenna List**

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	ACON	APP6P-701148 (Main)(Aux)	PIFA	-0.74dBi For 2.4GHz
2	INPAQ	WA-F-LBLB-04-022 (Main)(Aux)	PIFA	-0.96dBi 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: N542L, Q502L
  - #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.

Test Mode
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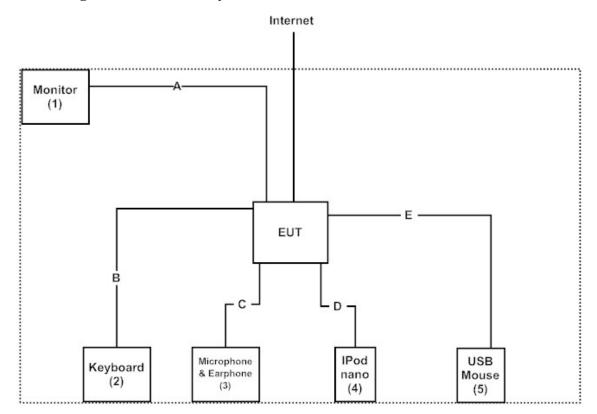
# 1.3. Tested System Details

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

Produ	ıct	Manufacturer	Model No.	Serial No.	Power Cord
1	Monitor	Dell	ST2320LF	CN-QM2NN6-72892-221-C9WS	Non-Shielded, 1.8m
2	Keyboard	Logitech	Y-UR83	SY853UK	N/A
3	Microphone & Earphone	РСНОМЕ	N/A	N/A	N/A
4	IPod nano	Apple	A1199	YM709RBUVQ5	N/A
5	USB Mouse	Logitech	M-BE58	HCA24311616	N/A

Sign	al Cable Type	Signal cable Description
A	HDMI Cable	Non-Shielded, 1.6m
В	Keyboard Cable	Non-Shielded, 1.7m
C	Microphone & Earphone Cable	Non-Shielded, 1.6m
D	I-Pod Cable	Non-Shielded, 1.2m
Е	Mouse Cable	Non-Shielded, 1.8m
F	LAN Cable	Non-Shielded, 2.0m

# 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: <a href="http://www.quietek.com/tw/ctg/cts/accreditations.htm">http://www.quietek.com/tw/ctg/cts/accreditations.htm</a>
The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site: <a href="http://www.quietek.com/">http://www.quietek.com/</a>

Site Description: File on

Federal Communications Commission

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FCC Accreditation Number: TW1014



# 2. Peak Power Output

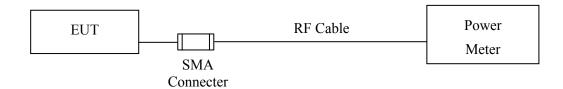
# 2.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Power Meter	Anritsu	ML2495A/6K00003357	May, 2013
X	Power Sensor	Anritsu	MA2411B/0738448	Jun., 2013
	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

± 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	3.11	1 Watt= 30 dBm	Pass
Channel 19	2440.00	3.46	1 Watt= 30 dBm	Pass
Channel 39	2480.00	4.24	1 Watt= 30 dBm	Pass



## 3. Radiated Emission

# 3.1. Test Equipment

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

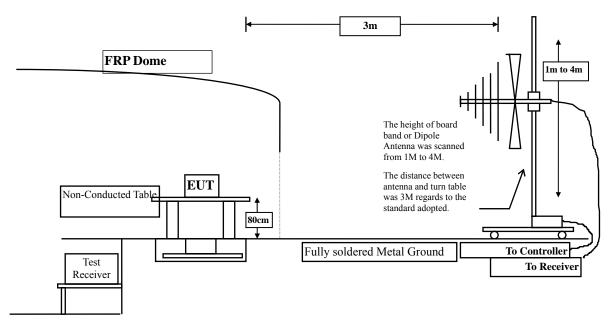
Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
⊠Site # 3	X	Loop Antenna	Teseq	HLA6120 / 26739	Jul., 2013
	X	Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2013
	X	Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2013
	X	Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2013
	X	Pre-Amplifier	Agilent	8447D/2944A09549	Sep., 2013
	X	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2013
	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.

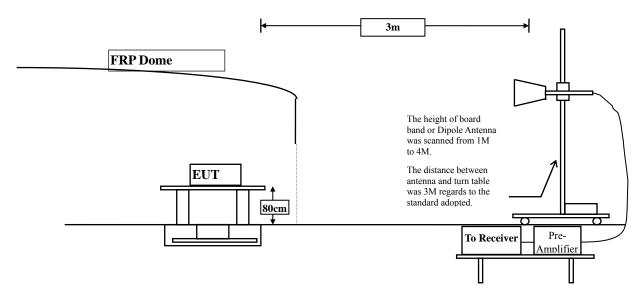
# 3.2. Test Setup

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)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4804.000	3.327	37.410	40.737	-33.263	74.000
7206.000	10.136	36.880	47.016	-26.984	74.000
9608.000	13.706	35.120	48.826	-25.174	74.000
Average					
<b>Detector:</b>					
Vertical					
Peak Detector:					
4804.000	6.638	37.220	43.857	-30.143	74.000
7206.000	11.005	36.950	47.955	-26.045	74.000
9608.000	14.103	35.890	49.993	-24.007	74.000
Average					
<b>Detector:</b>					

- 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	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4880.000	3.010	37.410	40.420	-33.580	74.000
7320.000	11.833	37.320	49.154	-24.846	74.000
9760.000	12.580	36.360	48.941	-25.059	74.000
Average					
<b>Detector:</b>					
Vertical					
Peak Detector:					
4880.000	5.738	37.380	43.118	-30.882	74.000
7320.000	12.703	36.190	48.893	-25.107	74.000
9760.000	13.052	37.960	51.012	-22.988	74.000
Average					
<b>Detector:</b>					

- 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	36.510	39.270	-34.730	74.000
7440.000	12.567	36.560	49.126	-24.874	74.000
9920.000	13.456	37.080	50.536	-23.464	74.000
Average					
<b>Detector:</b>					
Vertical					
Peak Detector:					
4960.000	5.557	37.070	42.627	-31.373	74.000
7440.000	13.426	35.990	49.415	-24.585	74.000
9920.000	13.958	36.810	50.768	-23.232	74.000
Average					
<b>Detector:</b>					

- 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					
151.490	-10.534	47.430	36.897	-6.603	43.500
301.880	-3.790	41.260	37.470	-8.530	46.000
477.360	-0.730	31.090	30.360	-15.640	46.000
602.110	3.723	31.640	35.363	-10.637	46.000
714.700	3.086	31.260	34.346	-11.654	46.000
913.110	5.652	33.250	38.902	-7.098	46.000
Vertical					
155.680	-6.606	32.850	26.244	-17.256	43.500
337.900	-4.631	41.590	36.959	-9.041	46.000
473.850	-5.028	32.998	27.971	-18.029	46.000
702.610	-0.309	37.690	37.381	-8.619	46.000
821.690	3.107	31.640	34.747	-11.253	46.000
926.700	5.422	31.120	36.542	-9.458	46.000

- 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, 2013
		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

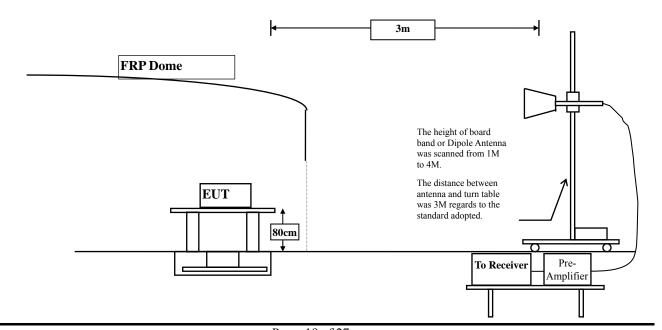
Note:

- 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



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## **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

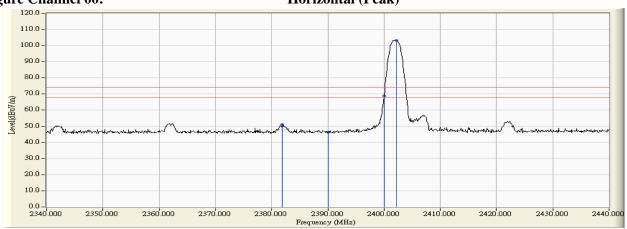
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit

## **RF Radiated Measurement (Horizontal):**

Channel No.	Frequency		_	Emission Level		_	Result
	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
00 (Peak)	2381.900	6.798	44.304	51.101	74.00	54.00	Pass
00 (Peak)	2390.000	6.803	39.398	46.201	74.00	54.00	Pass
00 (Peak)	2400.000	6.838	61.945	68.783			Pass
00 (Peak)	2402.200	6.845	96.435	103.280			Pass
00 (Average)	2381.800	6.798	33.164	39.962	74.00	54.00	Pass
00 (Average)	2390.000	6.803	28.549	35.352	74.00	54.00	Pass
00 (Average)	2400.000	6.838	42.106	48.944			Pass
00 (Average)	2402.000	6.845	73.396	80.241			Pass

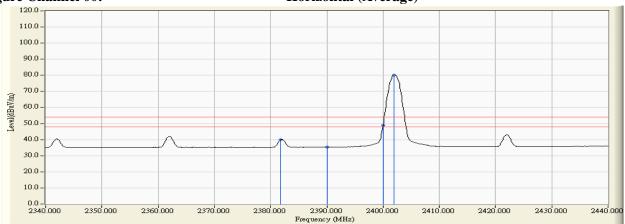
# Figure Channel 00:

## Horizontal (Peak)



## **Figure Channel 00:**

# 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

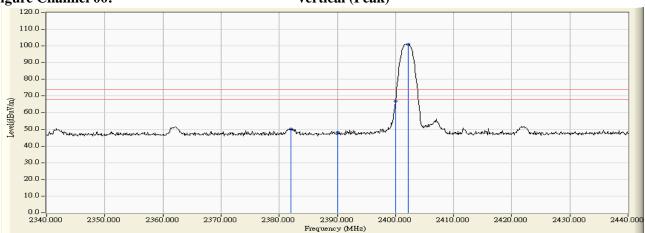
Test Mode : Mode 1: Transmit

## RF Radiated Measurement (Vertical):

		,					
Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Result
Chamile No.	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
00 (Peak)	2382.000	6.797	43.483	50.280	74.00	54.00	Pass
00 (Peak)	2390.000	6.803	41.519	48.322	74.00	54.00	Pass
00 (Peak)	2400.000	6.838	60.097	66.935			Pass
00 (Peak)	2402.200	6.845	94.231	101.076			Pass
00 (Average)	2381.900	6.798	32.537	39.334	74.00	54.00	Pass
00 (Average)	2390.000	6.803	28.637	35.440	74.00	54.00	Pass
00 (Average)	2400.000	6.838	40.814	47.652			Pass
00 (Average)	2402.000	6.845	71.796	78.641			Pass

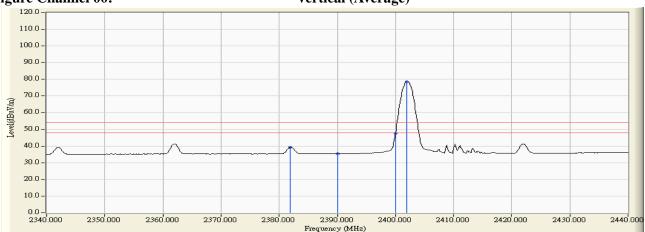


# Vertical (Peak)



# 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

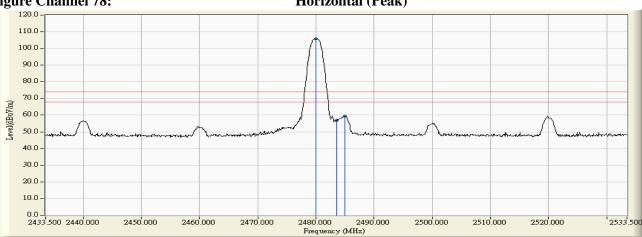
Test Mode Mode 1: Transmit

#### **RF Radiated Measurement (Horizontal):**

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
78 (Peak)	2480.000	7.203	98.488	105.691			Pass
78 (Peak)	2483.500	7.235	49.554	56.789	74.00	54.00	Pass
78 (Peak)	2485.000	7.248	52.185	59.433	74.00	54.00	Pass
78 (Average)	2480.100	7.204	75.055	82.259	-		Pass
78 (Average)	2483.500	7.235	32.350	39.585	74.00	54.00	Pass
78 (Average)	2500.200	7.245	37.254	44.500	74.00	54.00	Pass

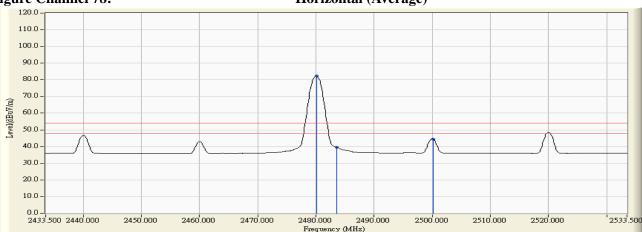






#### **Figure Channel 78:**

#### Horizontal (Average)



- All readings above 1GHz are performed with peak and/or average measurements as necessary. Note: 1.
  - Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
  - 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
  - "\*", means this data is the worst emission level. 4.
  - 5. Measurement Level = Reading Level + Correct Factor.
  - 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

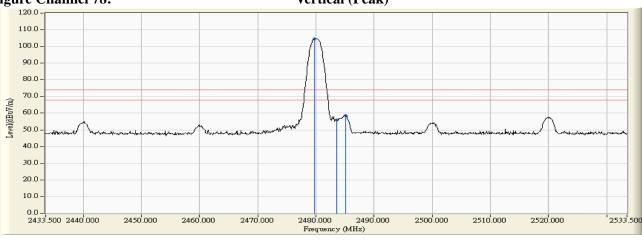
Test Mode : Mode 1: Transmit

## RF Radiated Measurement (Vertical):

(\(\cdot\)										
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)	2479.700	7.201	97.243	104.443			Pass			
78 (Peak)	2483.500	7.235	48.695	55.930	74.00	54.00	Pass			
78 (Peak)	2485.100	7.249	51.157	58.406	74.00	54.00	Pass			
78 (Average)	2480.100	7.204	74.162	81.366			Pass			
78 (Average)	2483.500	7.235	31.845	39.080	74.00	54.00	Pass			
78 (Average)	2499.800	7.249	36.729	43.978	74.00	54.00	Pass			

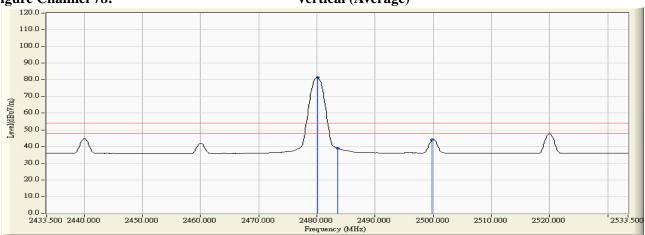


# Vertical (Peak)



#### **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