

# Test Report

**Compliance with Industry Canada Interference-Causing  
Equipment Standard RSS-Gen, RSS-210 and FCC Part15.247**

Product Name : Eee PC  
Model No. : Eee PC 1101HA  
FCC ID : MSQ1HANE762H  
IC ID : 3568A-1HANE762H

Applicant : ASUSTEK COMPUTER INC.

Address : NO.150, Li-Te Rd., Peitou, Taipei, Taiwan, R.O.C.

Date of Receipt : 2009/05/06

Issued Date : 2009/06/01

Report No. : 095S066R-RF-US-P05V01

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.

This report must not be used to claim product endorsement by CNLA, NVLAP or any agency of the Government.  
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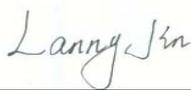
# Test Report Certification

Issued Date : 2009/06/01

Report No. : 095S066R-RF-US-P05V01



Product Name : Eee PC  
Applicant : ASUSTEK COMPUTER INC.  
Address : NO.150, Li-Te Rd., Peitou, Taipei, Taiwan, R.O.C.  
Manufacturer : PROTEK (SHANGHAI) LTD  
Address : 3768 XIU YAN RD NANHUI DISTRICT SHANGHAI CHINA  
Model No. : Eee PC 1101HA  
FCC ID : MSQ1HANE762H  
IC ID : 3568A-1HANE762H  
Rated Voltage : AC 120 V / 60 Hz  
EUT Voltage : AC 100-240 V / 50-60 Hz  
Trade Name : ASUS  
Applicable Standard : FCC CFR Title 47 Part 15 Subpart C: 2008  
ANSI C63.4: 2003  
RSS-Gen Issue 2 June 2007, RSS-210 Issue 7 June 2007  
Test Result : Complied  
Performed Location : SuZhou EMC laboratory  
No.99 Hongye Rd., Suzhou Industrial Park Loufeng  
Hi-Tech Development Zone., SuZhou, China  
TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098  
FCC Registration Number: 800392; IC Lab Code: 4075B

Documented By :   
\_\_\_\_\_  
( Lanny Jin )

Reviewed By :   
\_\_\_\_\_  
( Marlin Chen )

Approved By :   
\_\_\_\_\_  
( Gene Chang )

## Laboratory Information

We , **Quietek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited by the following accreditation Bodies in compliance with ISO 17025, EN 45001 and Guide 25:

Taiwan R.O.C.	: BSMI, DGT, CNLA
Germany	: TUV Rheinland
Norway	: Nemko, DNV
USA	: FCC, NVLAP
Japan	: VCCI

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site : <http://tw.quietek.com/modules/myalbum/>  
 The address and introduction of Quietek Corporation's laboratories can be founded in our Web site : <http://www.quietek.com/>  
 If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

### HsinChu Testing Laboratory :

No.75-2, 3rd Lin, Wangye Keng, Yonghxing Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan, R.O.C.  
 TEL:+886-3-592-8858 / FAX:+886-3-592-8859 E-Mail : service@quietek.com



### LinKou Testing Laboratory :

No. 5, Ruei-Shu Valley, Ruei-Ping Tsuen, Lin-Kou Shiang, Taipei, Taiwan, R.O.C.  
 TEL : +886-2-8601-3788 / FAX : 886-2-8601-3789 E-Mail : service@quietek.com



### Suzhou Testing Laboratory :

No.99 Hongye Rd., Suzhou Industrial Park Loufeng Hi-Tech Development Zone., SuZhou, China  
 TEL : +86-512-6251-5088 / FAX : 86-512-6251-5098 E-Mail : service@quietek.com



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## 1. General Information

### 1.1. EUT Description

Product Name	Eee PC
Trade Name	ASUS
Model No.	Eee PC 1101HA
FCC ID	MSQ1HANE762H
IC ID	3568A-1HANE762H

WLAN	Atheros / RT3090
Working Voltage	DC 3.3V
Frequency Range	802.11b/g/n(20MHz): 2412 - 2462 MHz 802.11n(40MHz): 2422 - 2452 MHz
Channel Number	802.11b/g/n(20MHz): 11 802.11n(40MHz): 7
Type of Modulation	802.11b: DSSS 802.11g/n: OFDM
Data Rate	802.11b: 1/2/5.5/11 Mbps 802.11g: 6/9/12/18/24/36/48/54 Mbps 802.11n: up to 135 Mbps
Channel Control	Auto
Antenna Type	PIFA
Antenna Delivery	1*Tx + 1*Rx
Antenna Gain	Refer to the "Antenna List"

Component	
Adapter	Manufacturer: PI M/N: AD6630 Input: AC 100-240V~, 50/60Hz, 1.0A Output: 19V, 2.1A

802.11b/g/n(20MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz	04	2427 MHz
05	2432 MHz	06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz	10	2457 MHz	11	2462 MHz	N/A	N/A

802.11n(40MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
03	2422 MHz	04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz	N/A	N/A

### 802.11b/g/n Antenna List

Antenna	Manufacturer	Model No.	Peak Gain
Combined Antenna	YAGEO	TX1: CAN4313908012501B	2.4GHz: 0.59dBi
Combined Antenna	YAGEO	TX1: CAN4313908032501B	2.4GHz: 0.59dBi
Combined Antenna	ACON	TX1: AMP6P-700052	2.4GHz: 1.4dBi
Combined Antenna	ACON	TX1: AMP6P-700053	2.4GHz: 1.4dBi

Note: During follow testing, we used the higher gain (ACON) of above for combined antennas.

**1.2. Mode of Operation**

Quietek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Transmit by 802.11b
Mode 2: Transmit by 802.11g
Mode 3: Transmit by 802.11n (20MHz Bandwidth)
Mode 4: Transmit by 802.11n (40MHz Bandwidth)

Note:

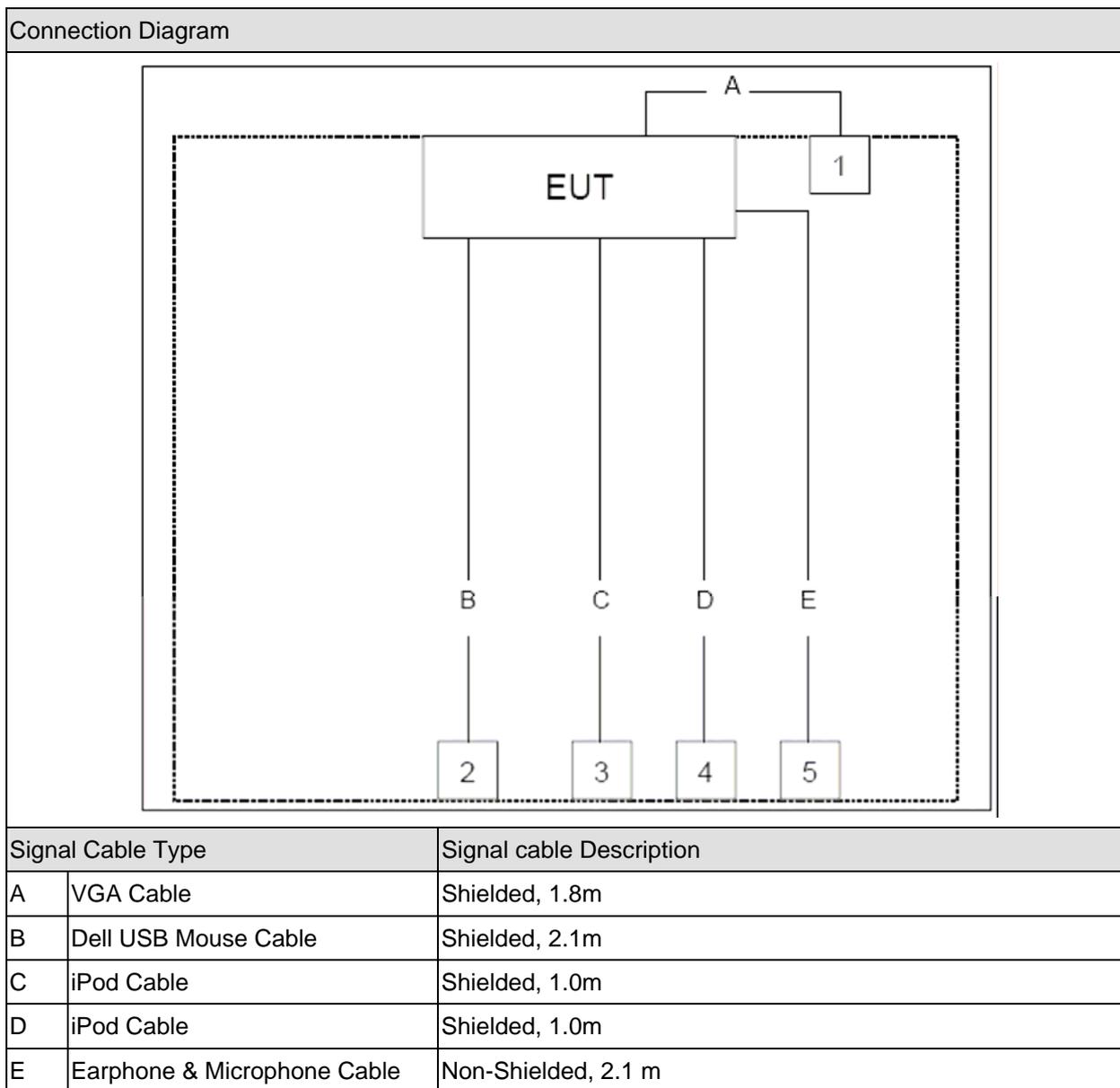
1. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.
2. This device is a composite device in accordance with Part 15 Subpart B regulations.

### 1.3. Tested System Details

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

Product	Manufacturer	Model No.	Serial No.	Power Cord
1 LCD Monitor	SANSUNG	540N	N/A	N/A
2 USB Mouse	DELL	MO56UOA	F1B03EZZ	Power by PC
3 iPod	Apple	A1199	6U715YFAVQ5	Power by PC
4 iPod	Apple	A1199	6U715YT3VQ5	Power by PC
5 Microphone & Earphone	SOMIC	N/A	SM-302	N/A

1.4. Configuration of Tested System



**1.5. EUT Exercise Software**

1	Setup the EUT and simulators as shown on above
2	Turn on the power of equipment and run control software "ART" provided by applicant.
3	Select wireless mode bandwidth and channel for test; click the "Start Transmit" button.

## 2. Technical Test

### 2.1. Summary of Test Result

- No deviations from the test standards  
 Deviations from the test standards as below description:

For FCC Part15.247

Performed Test Item	Normative References	Test Performed	Deviation
Conducted Emission	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.207	Yes	No
Radiated Emission	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.209	Yes	No
RF Antenna Conducted Spurious	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.247(d)	Yes	No
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart C: 2008 15.247(d)	Yes	No
Operation Frequency Range of 20dB Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2008 15.215(c)	Yes	No
Occupied Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.247(a)(2)	Yes	No
Power Output	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.247(b)(3)	Yes	No
Power Spectral Density	FCC CFR Title 47 Part 15 Subpart C: 2008 Section 15.247(e)	Yes	No

For RSS-GEN&RSS-210

Performed Test Item	Normative References	Test Performed	Deviation
Conducted Emission	RSS-Gen Issue 2 June 2007 Section 7.2.2	Yes	No
Radiated Emission	RSS-210 Issue 2 June 2007 Section 2.7 Table 2 and Table 3	Yes	No
RF Antenna Conducted Spurious	RSS-210 Issue 7 June 2007 Section A8.5	Yes	No
Radiated Emission Band Edge	RSS-210 Issue 7 June 2007 Section A8.5	Yes	No
Occupied Bandwidth	RSS-Gen Issue 2 June 2007 Section 4.6.1 and 4.6.2 RSS-210 Issue 7 June 2007 Section A8.2(1)	Yes	No
Power Output	RSS-210 Issue 7 June 2007 Section A8.4(4)	Yes	No
Power Spectral Density	RSS-210 Issue 7 June 2007 Section A8.2(2)	Yes	No

**2.2. Test Environment**

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	21
Humidity (%RH)	25-75	50
Barometric pressure (mbar)	860-1060	950-1000

### 3. Conducted Emission

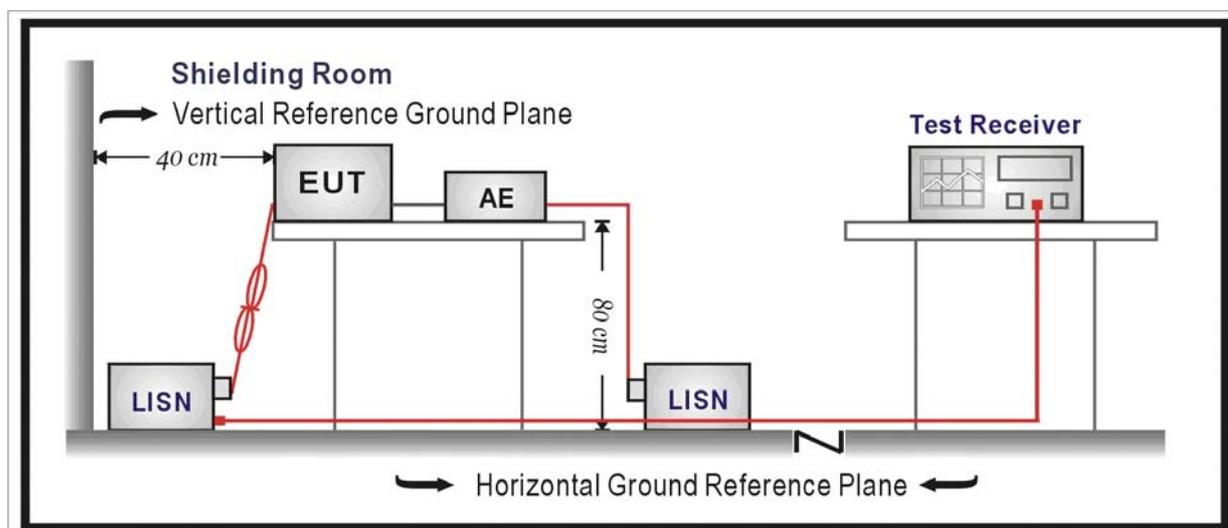
#### 3.1. Test Equipment

Conducted Emission / SR-1

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
EMI Test Receiver	R&S	ESCI	100726	2009/04/23
Two-Line V-Network	R&S	ENV216	100013	2008/06/28
Two-Line V-Network	R&S	ENV216	100014	2008/06/28
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2008/11/24
50ohm Termination	SHX	TF2	07081401	2008/09/28
Coaxial Cable	Luthi	RG214	519358	2008/11/24
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH004	2009/03/31

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

#### 3.2. Test Setup



**3.3. Limit**

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

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

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

**3.4. Test Procedure**

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

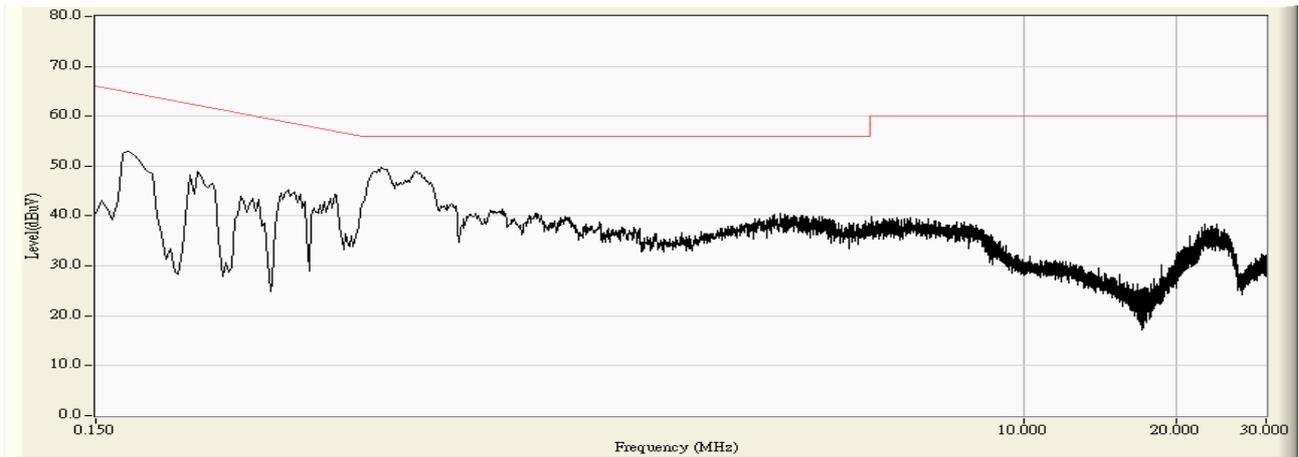
The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

**3.5. Uncertainty**

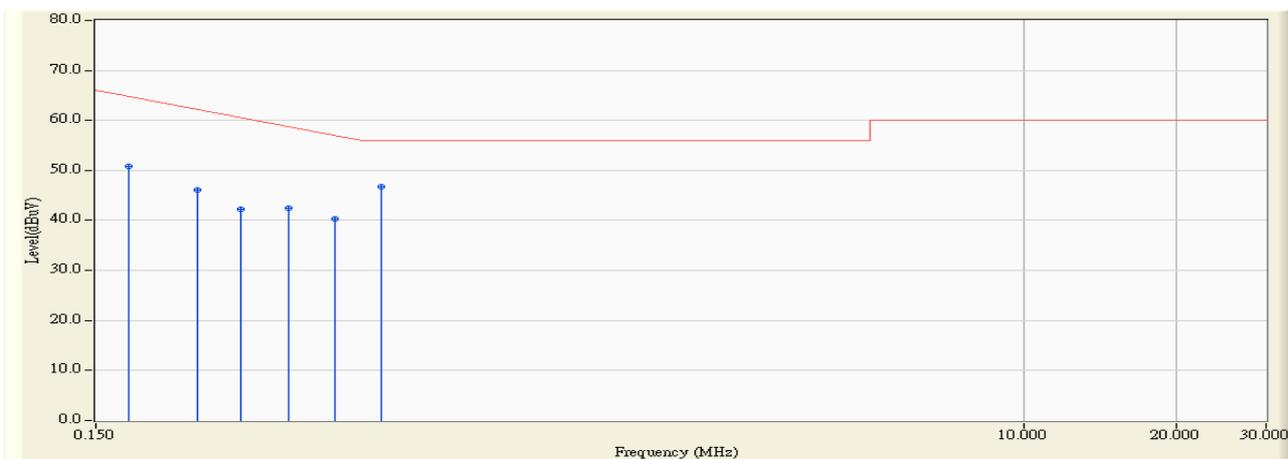
The measurement uncertainty is defined as  $\pm 2.02$  dB

**3.6. Test Result**

Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2009/05/14 - 15:35
Limit : FCC_Part15_B_00M_QP	Margin : 0
EUT : Eee PC 1101HA	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b

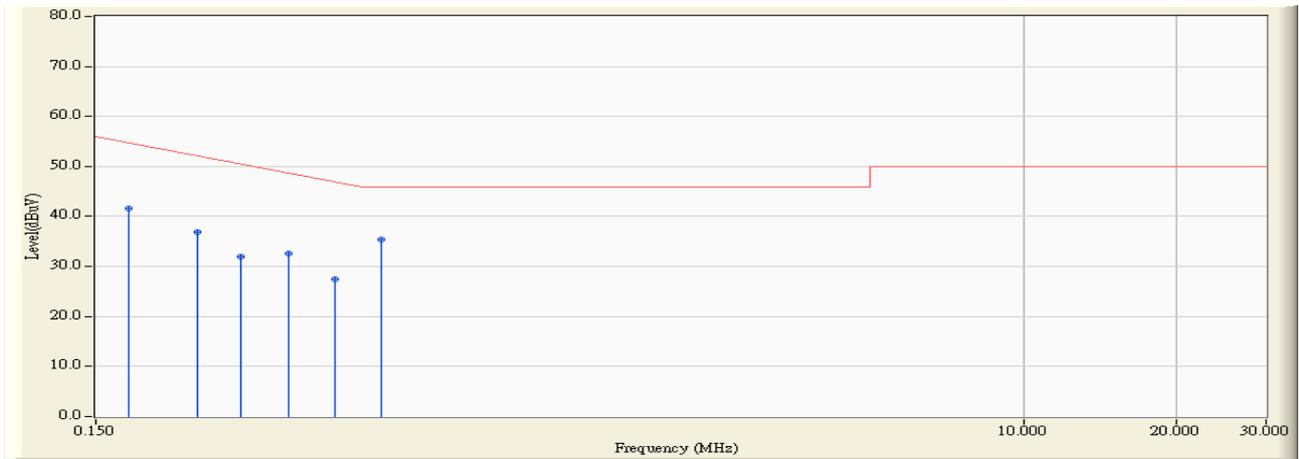


Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2009/05/14 - 15:37
Limit : FCC_Part15_B_00M_QP	Margin : 0
EUT : Eee PC 1101HA	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b



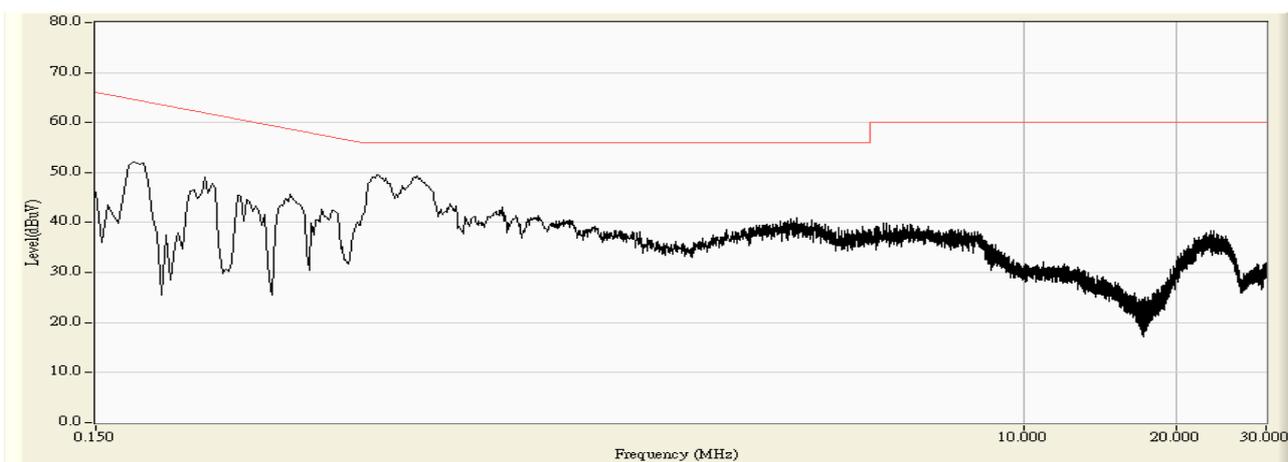
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.174	9.929	40.900	50.829	-14.485	65.314	QUASIPeAK
2		0.238	9.453	36.600	46.053	-17.433	63.486	QUASIPeAK
3		0.290	9.487	32.800	42.287	-19.713	62.000	QUASIPeAK
4		0.358	9.533	32.900	42.433	-17.624	60.057	QUASIPeAK
5		0.442	9.589	30.700	40.289	-17.368	57.657	QUASIPeAK
6	*	0.546	9.639	37.200	46.839	-9.161	56.000	QUASIPeAK

<b>Engineer : Jame</b>	
<b>Site : SR-1 (Conducted Emission and Power Disturbance Test)</b>	<b>Time : 2009/05/14 - 15:37</b>
<b>Limit : FCC_Part15_B_00M_AV</b>	<b>Margin : 0</b>
<b>EUT : Eee PC 1101HA</b>	<b>Probe : ENV216_100014(0.009-30MHz) - Line1</b>
<b>Power : AC 120V/60Hz</b>	<b>Note : Mode 1: Transmit by 802.11b</b>

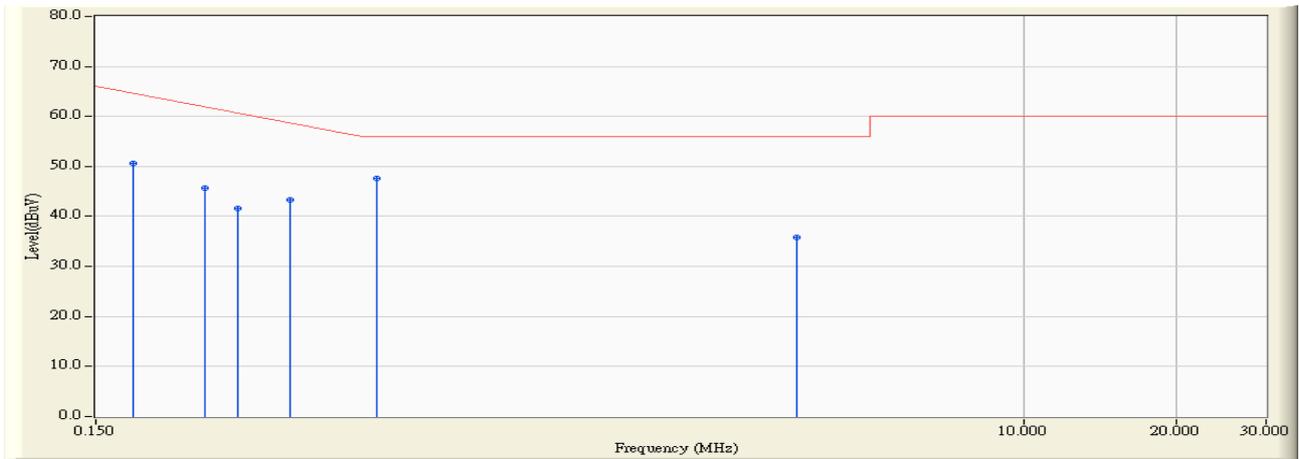


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.174	9.929	31.700	41.629	-13.685	55.314	AVERAGE
2		0.238	9.453	27.400	36.853	-16.633	53.486	AVERAGE
3		0.290	9.487	22.400	31.887	-20.113	52.000	AVERAGE
4		0.358	9.533	23.100	32.633	-17.424	50.057	AVERAGE
5		0.442	9.589	17.900	27.489	-20.168	47.657	AVERAGE
6	*	0.546	9.639	25.700	35.339	-10.661	46.000	AVERAGE

Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2009/05/14 - 15:30
Limit : FCC_Part15_B_00M_QP	Margin : 0
EUT : Eee PC 1101HA	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b

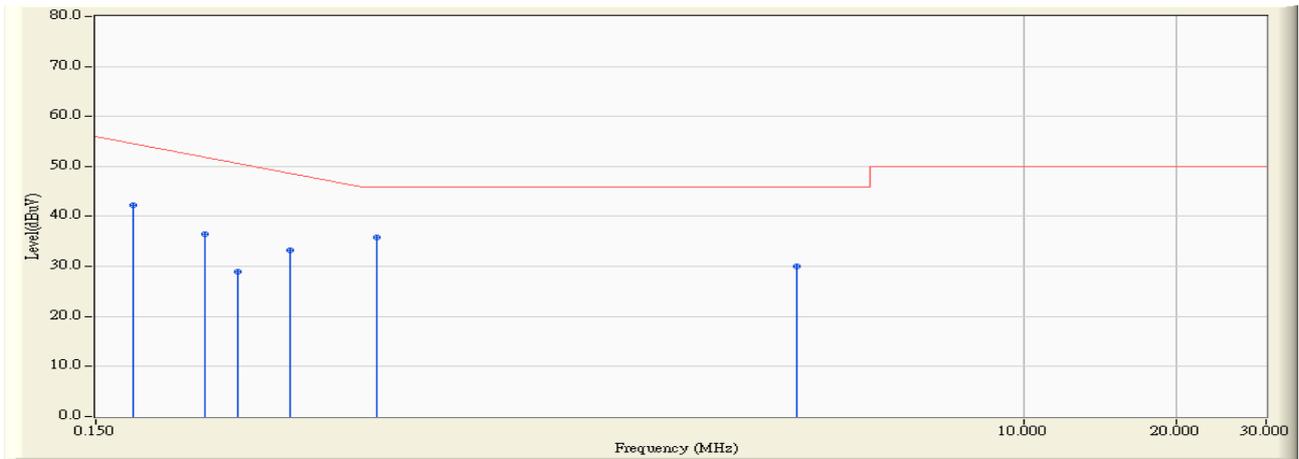


<b>Engineer : Jame</b>	
<b>Site : SR-1 (Conducted Emission and Power Disturbance Test)</b>	<b>Time : 2009/05/14 - 15:33</b>
<b>Limit : FCC_Part15_B_00M_QP</b>	<b>Margin : 0</b>
<b>EUT : Eee PC 1101HA</b>	<b>Probe : ENV216_100014(0.009-30MHz) - Line2</b>
<b>Power : AC 120V/60Hz</b>	<b>Note : Mode 1: Transmit by 802.11b</b>



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.178	9.820	40.800	50.620	-14.580	65.200	QUASIPeAK
2		0.246	9.580	36.200	45.780	-17.477	63.257	QUASIPeAK
3		0.286	9.590	32.100	41.690	-20.424	62.114	QUASIPeAK
4		0.362	9.598	33.700	43.298	-16.645	59.943	QUASIPeAK
5	*	0.534	9.640	38.000	47.640	-8.360	56.000	QUASIPeAK
6		3.594	9.710	26.200	35.910	-20.090	56.000	QUASIPeAK

Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2009/05/14 - 15:33
Limit : FCC_Part15_B_00M_AV	Margin : 0
EUT : Eee PC 1101HA	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.178	9.820	32.400	42.220	-12.980	55.200	AVERAGE
2		0.246	9.580	26.800	36.380	-16.877	53.257	AVERAGE
3		0.286	9.590	19.300	28.890	-23.224	52.114	AVERAGE
4		0.362	9.598	23.700	33.298	-16.645	49.943	AVERAGE
5	*	0.534	9.640	26.200	35.840	-10.160	46.000	AVERAGE
6		3.594	9.710	20.400	30.110	-15.890	46.000	AVERAGE

## 4. Radiated Emission

### 4.1. Test Equipment

Radiated Emission / AC-5

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2009/04/23
EMI Test Receiver	R&S	ESCI	100573	2009/05/09
Preamplifier	Quietek	AP-025C	QT-AP003	2008/11/24
Preamplifier	Quietek	AP-180C	CHM-0602012	2008/11/24
Bilog Type Antenna	Schaffner	CBL6112B	2932	2008/11/21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2008/11/24
High-Pass Filter	Wainwright	WHKX2.8/18G-12SS	SN1	2009/03/01
Band Reject Filter	Wainwright	WRCG2400/2485-2375 /2510-60/11SS	SN9	2009/03/01
High-Pass Filter	Wainwright	WHKX7.0/18G-8SS	SN16	2009/03/01
Low-Pass Filter	Wainwright	WLKS4500-9SS	SN2	2009/03/01
50ohm Coaxial Switch	Anritsu	MP59B	6200447304	2008/11/24
Coaxial Cable	Huber+Suhner	AC2-C	04	2008/11/24
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH002	2009/03/30

Radiated Emission / AC-3

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4408B	MY45102679	2008/06/28
EMI Test Receiver	R&S	ESCI	100176	2008/11/15
Preamplifier	Quietek	AP-025C	QT-AP004	2008/11/24
Preamplifier	Quietek	AP-180C	CHM-0602012	2008/11/24
Bilog Type Antenna	Schaffner	CBL6112D	22254	2008/11/21
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2008/11/24
High-Pass Filter	Wainwright	WHKX2.8/18G-12SS	SN1	2009/03/01
Band Reject Filter	Wainwright	WRCG2400/2485-2375 /2510-60/11SS	SN9	2009/03/01
High-Pass Filter	Wainwright	WHKX7.0/18G-8SS	SN16	2009/03/01
Low-Pass Filter	Wainwright	WLKS4500-9SS	SN2	2009/03/01
50ohm Coaxial Switch	Anritsu	MP59B	6200464463	2008/11/24
Coaxial Cable	Huber+Suhner	AC2-C	05	2008/11/24

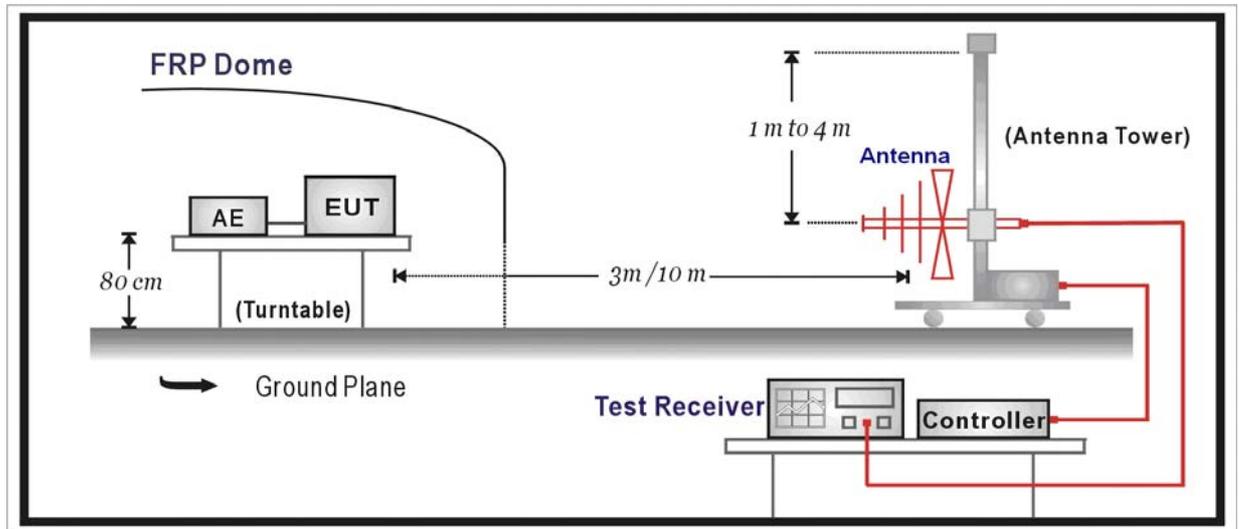
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH003	2009/03/30
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Note 1: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

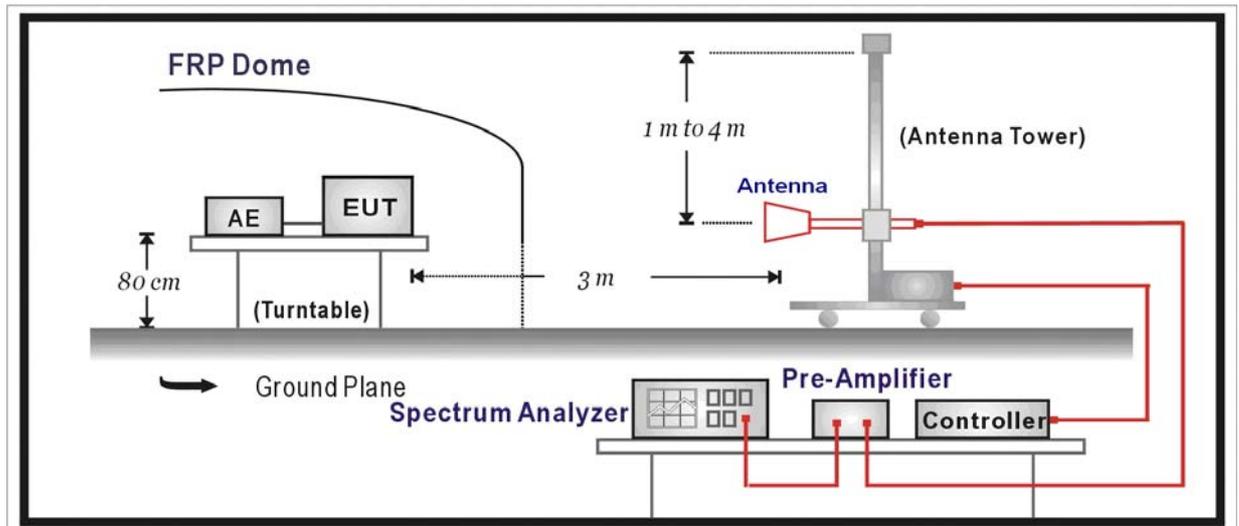
Note 2: The test instruments marked with "X" are used to measure the final test results.

### 4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



**4.3. Limit**

FCC Part 15 Subpart C Paragraph 15.209		
Frequency (MHz)	Distance (m)	Level (dBuV/m)
30 - 88	3	40
88 - 216	3	43.5
216 - 960	3	46
Above 960	3	54

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

Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Note 3: E field strength (dBuV/m) = 20 log E field strength (uV/m)

**4.4. Test Procedure**

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 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 C63.4:2003 on radiated measurement.

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

The frequency range from 30MHz to 10th harmonic is checked.

Note: When doing emission measurement above 1GHz, the horn antenna will be bended down a little (as horn antenna has the narrow beamwidth) in order to keep the antenna in the “cone of radiation” of EUT. The 3dB beamwidth for this horn antenna is 60 degrees for H-plane and 90 degrees for E-plane.

**4.5. Uncertainty**

The measurement uncertainty above 1G is defined as ± 3.9 dB  
 below 1G is defined as ± 3.8 dB

4.6. Test Result

Below 1GHz

Mode 1: 802.11b							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 1 (2412MHz)							
142.2	H	34.2	43.5	-9.3	QP	120.5	65.8
215.8	H	31.2	43.5	-12.3	QP	120.5	65.8
322.3	H	33.8	46.0	-12.2	QP	114.2	144.8
142.2	V	29.8	43.5	-13.7	QP	114.2	144.8
215.8	V	28.3	43.5	-15.2	QP	120.5	65.8
335.9	V	33.7	46.0	-12.3	QP	120.5	65.8
Channel 6 (2437MHz)							
190.6	H	28.3	43.5	-15.2	QP	120.5	65.8
287.5	H	37.4	46.0	-8.6	QP	120.5	65.8
335.9	H	37.3	46.0	-8.7	QP	114.2	144.8
190.6	V	25.8	43.5	-17.7	QP	114.2	144.8
287.5	V	32.4	46.0	-13.6	QP	120.5	65.8
335.9	V	33.7	46.0	-12.3	QP	120.5	65.8
Channel 11 (2462MHz)							
225.5	H	36.4	46.0	-9.6	QP	120.5	65.8
310.7	H	35.8	46.0	-10.2	QP	120.5	65.8
382.3	H	35.4	46.0	-10.6	QP	114.2	144.8
227.4	V	29.2	46.0	-16.8	QP	114.2	144.8
310.7	V	33.5	46.0	-12.5	QP	120.5	65.8
415.2	V	35.6	46.0	-10.4	QP	120.5	65.8

Mode 2: 802.11g							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 1 (2412MHz)							
119.0	H	30.4	43.5	-13.1	QP	120.5	65.8
190.6	H	28.3	43.5	-15.2	QP	120.5	65.8
215.8	H	31.2	43.5	-12.3	QP	114.2	144.8
119.0	V	31.7	43.5	-11.8	QP	114.2	144.8

190.6	V	25.8	43.5	-17.7	QP	120.5	65.8
215.8	V	28.3	43.5	-15.2	QP	120.5	65.8
Channel 6 (2437MHz)							
167.4	H	27.0	43.5	-16.5	QP	120.5	65.8
322.3	H	33.8	46.0	-12.2	QP	120.5	65.8
382.3	H	35.4	46.0	-10.6	QP	114.2	144.8
167.4	V	27.4	43.5	-16.1	QP	114.2	144.8
335.9	V	33.7	46.0	-12.3	QP	120.5	65.8
382.3	V	34.5	46.0	-11.5	QP	120.5	65.8
Channel 11 (2462MHz)							
142.2	H	34.1	43.5	-9.4	QP	120.5	65.8
287.5	H	37.4	46.0	-12.3	QP	120.5	65.8
335.9	H	37.3	46.0	-11.5	QP	114.2	144.8
142.2	V	29.8	43.5	-13.7	QP	114.2	144.8
287.5	V	32.4	46.0	-13.6	QP	120.5	65.8
335.9	V	33.7	46.0	-12.3	QP	120.5	65.8

Mode 3: 802.11n(20MHz)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 1 (2412MHz)							
119.0	H	30.4	43.5	-13.1	QP	120.5	65.8
167.4	H	27.0	43.5	-16.5	QP	120.500	65.8
215.8	H	31.2	43.5	-12.3	QP	114.2	144.8
119.0	V	31.7	43.5	-11.8	QP	114.2	144.8
167.4	V	27.4	43.5	-16.1	QP	120.5	65.8
215.8	V	28.3	43.5	-15.2	QP	120.5	65.8
Channel 6 (2437MHz)							
200.3	H	31.5	43.5	-12.0	QP	120.5	65.8
254.5	H	38.0	46.0	-8.0	QP	120.5	65.8
335.9	H	37.3	46.0	-8.7	QP	114.2	144.8
200.3	V	25.1	43.5	-18.4	QP	114.2	144.8
262.3	V	32.8	46.0	-13.2	QP	120.5	65.8
335.9	V	33.7	46.0	-12.3	QP	120.5	65.8
Channel 11 (2462MHz)							
119.0	H	30.4	43.5	-13.1	QP	120.5	65.8

190.6	H	28.3	43.5	-15.2	QP	120.5	65.8
254.5	H	38.0	46.0	-8.0	QP	114.2	144.8
119.0	V	31.7	43.5	-11.8	QP	114.2	144.8
190.6	V	25.8	43.5	-17.7	QP	120.5	65.8
244.9	V	33.6	46.0	-12.4	QP	120.5	65.8

Mode 4: 802.11n(40MHz)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 3 (2422MHz)							
119.0	H	30.4	43.5	-13.1	QP	120.5	65.8
167.4	H	27.0	43.5	-16.5	QP	120.5	65.8
254.5	H	38.0	46.0	-8.0	QP	114.2	144.8
119.0	V	31.7	43.5	-11.8	QP	114.2	144.8
167.4	V	27.4	43.5	-16.1	QP	120.5	65.8
244.9	V	33.6	46.0	-12.4	QP	120.5	65.8
Channel 6 (2437MHz)							
215.8	H	31.2	43.5	-12.3	QP	120.5	65.8
322.3	H	33.8	46.0	-12.2	QP	120.5	65.8
382.3	H	35.4	46.0	-10.6	QP	114.2	144.8
215.8	V	28.3	43.5	-15.2	QP	114.2	144.8
215.8	V	28.3	43.5	-17.7	QP	120.5	65.8
335.9	V	33.7	46.0	-12.3	QP	120.5	65.8
Channel 9 (2452MHz)							
190.6	H	28.3	43.5	-15.2	QP	120.5	65.8
254.5	H	38.0	46.0	-8.0	QP	120.5	65.8
335.9	H	37.3	46.0	-8.7	QP	114.2	144.8
190.6	V	25.8	43.5	-17.7	QP	114.2	144.8
244.9	V	33.6	46.0	-12.4	QP	120.5	65.8
335.9	V	33.7	46.0	-12.3	QP	120.5	65.8

Above 1GHz

Mode 1: 802.11b							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 1 (2412MHz)							
4826.9	H	44.6	74	-29.4	PK	150.5	75.2
4826.9	H	30.2	54	-23.8	AV	150.5	75.2
4826.9	V	44.2	74	-29.8	PK	144.2	124.8
4826.9	V	30.1	54	-23.9	AV	144.2	124.8
Channel 6 (2437MHz)							
4877.9	H	43.8	74	-30.2	PK	151.0	65.8
4877.9	H	29.6	54	-24.4	AV	151.0	65.8
4877.9	V	43.7	74	-30.3	PK	144.6	114.8
4877.9	V	29.4	54	-24.6	AV	144.6	114.8
Channel 11 (2462MHz)							
4920.4	H	43.2	74	-30.8	PK	151.2	65.8
4920.4	H	29.1	54	-24.9	AV	151.2	65.8
4920.4	V	43.8	74	-30.2	PK	144.3	144.8
4920.4	V	29.7	54	-24.3	AV	144.3	144.8

Mode 2: 802.11g							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 1 (2412MHz)							
7239.0	H	51.6	74	-22.4	PK	150.5	75.2
7239.0	H	37.4	54	-16.6	AV	150.5	75.2
7239.0	V	51.3	74	-22.7	PK	144.2	124.8
7239.0	V	37.1	54	-16.9	AV	144.2	124.8
Channel 6 (2437MHz)							
4876.0	H	44.7	74	-29.3	PK	151.0	65.8
4876.0	H	30.5	54	-23.5	AV	151.0	65.8
4876.0	V	45.7	74	-28.3	PK	144.6	114.8
4876.0	V	31.4	54	-22.6	AV	144.6	114.8
Channel 11 (2462MHz)							
4920.4	H	43.4	74	-30.6	PK	151.2	65.8

4920.4	H	29.3	54	-24.7	AV	151.2	65.8
4920.4	V	43.3	74	-30.7	PK	144.3	144.8
4920.4	V	28.9	54	-25.1	AV	144.3	144.8

Mode 3: 802.11n(20MHz)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 1 (2412MHz)							
4826.9	H	43.1	74	-30.9	PK	150.5	75.2
4826.9	H	29.1	54	-24.9	AV	150.5	75.2
4826.9	V	42.5	74	-31.5	PK	144.2	124.8
4826.9	V	28.4	54	-25.6	AV	144.2	124.8
Channel 6 (2437MHz)							
4877.9	H	43.6	74	-30.4	PK	150.5	65.8
4877.9	H	29.4	54	-24.6	AV	150.5	65.8
4877.9	V	43.7	74	-30.3	PK	144.2	144.8
4877.9	V	29.5	54	-24.5	AV	144.2	144.8
Channel 11 (2462MHz)							
4920.4	H	43.7	74	-30.3	PK	151.2	65.8
4920.4	H	29.5	54	-24.5	AV	151.2	65.8
4920.4	V	42.5	74	-31.5	PK	144.3	144.8
4920.4	V	29.2	54	-24.8	AV	144.3	144.8

Mode 4: 802.11n(40MHz)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (degree)
Channel 3 (2422MHz)							
7256.0	H	50.8	74	-23.2	PK	150.5	75.2
7256.0	H	36.3	54	-17.7	AV	150.5	75.2
7256.0	V	50.1	74	-23.9	PK	144.2	124.8
7256.0	V	36.0	54	-18.0	AV	144.2	124.8
Channel 6 (2437MHz)							
7307.0	H	50.4	74	-23.6	PK	151.0	65.8
7307.0	H	36.2	54	-17.8	AV	151.0	65.8
7307.0	V	49.7	74	-24.3	PK	144.6	114.8

7307.0	V	35.4	54	-18.6	AV	144.6	114.8
Channel 9 (2452MHz)							
7358.0	H	52.2	74	-21.8	PK	151.2	65.8
7358.0	H	38.1	54	-15.9	AV	151.2	65.8
7358.0	V	50.7	74	-23.3	PK	144.3	144.8
7358.0	V	36.2	54	-17.8	AV	144.3	144.8

## 5. RF Antenna Conducted Spurious

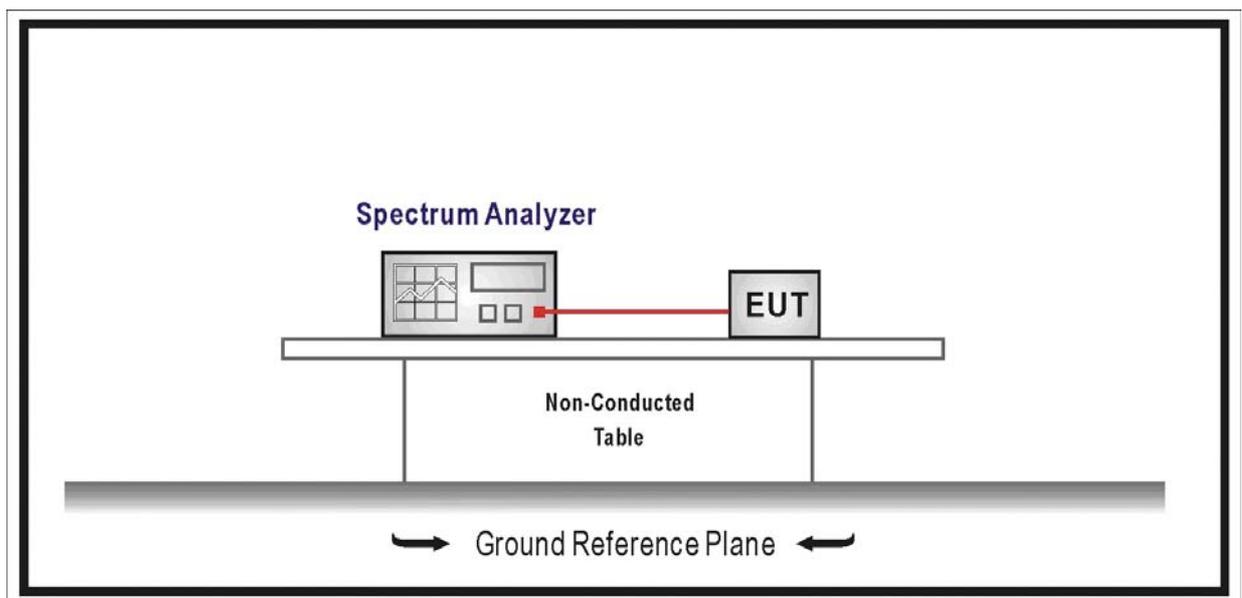
### 5.1. Test Equipment

RF Antenna Conducted Spurious / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2008/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2008/11/24
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2009/03/01

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 5.2. Test Setup



### 5.3. 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.

#### **5.4. Test Procedure**

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

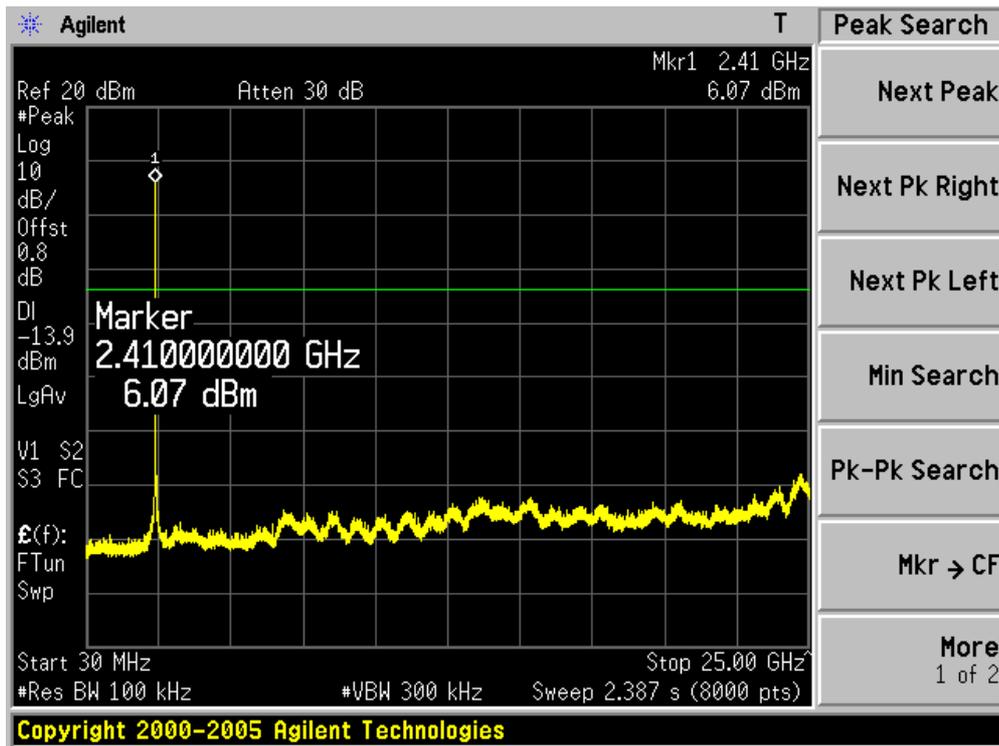
#### **5.5. Uncertainty**

The measurement uncertainty is defined as  $\pm 1.27$  dB

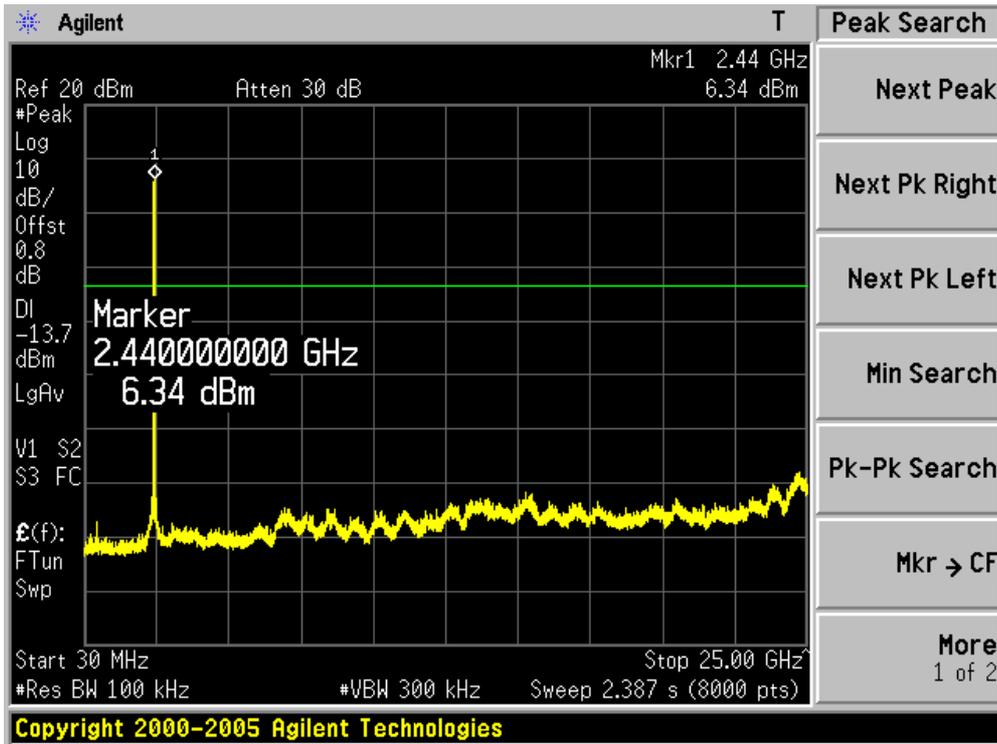
5.6. Test Result

Product	:	Eee PC
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-6
Test Mode	:	Mode 1: Transmit by 802.11b

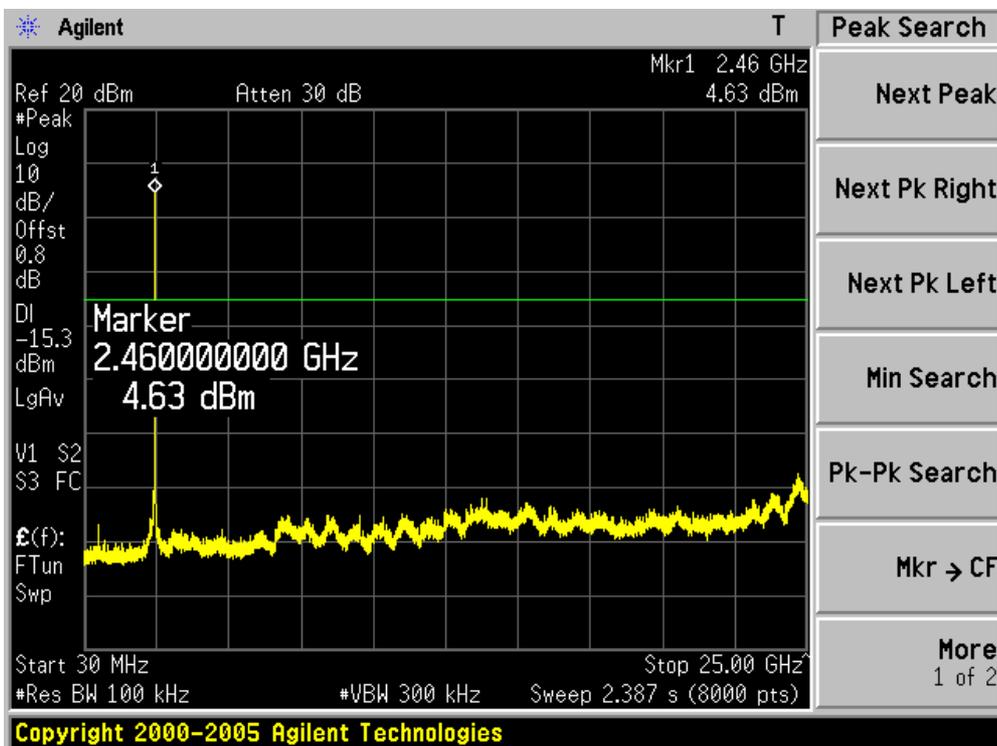
Channel 01 (2412MHz)



Channel 06 (2437MHz)

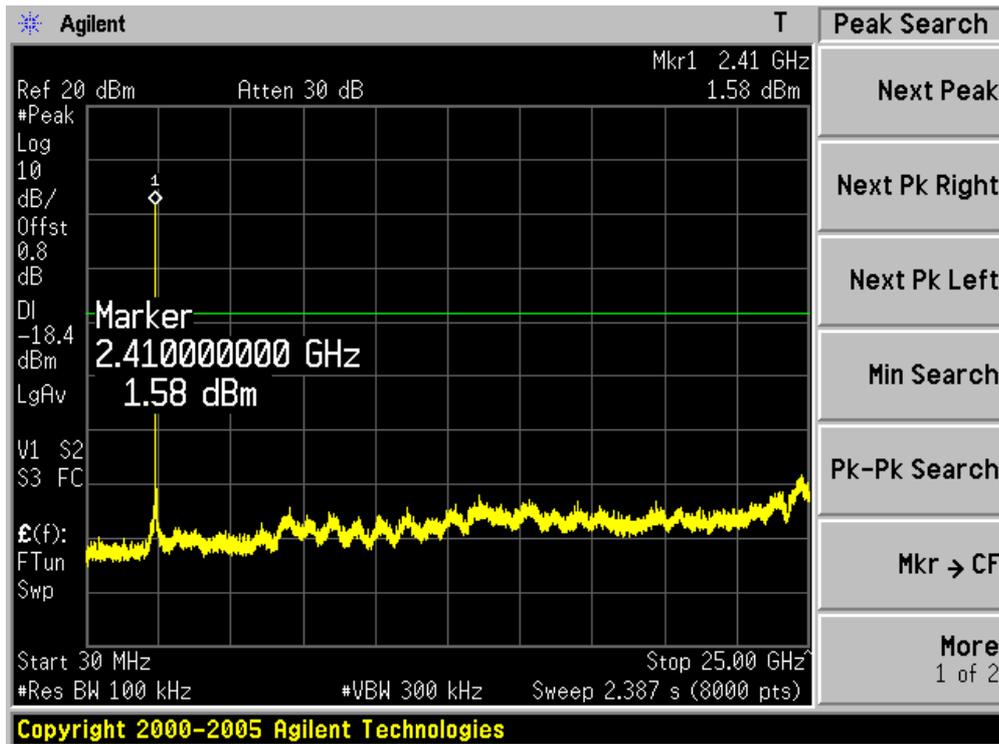


Channel 11 (2462MHz)

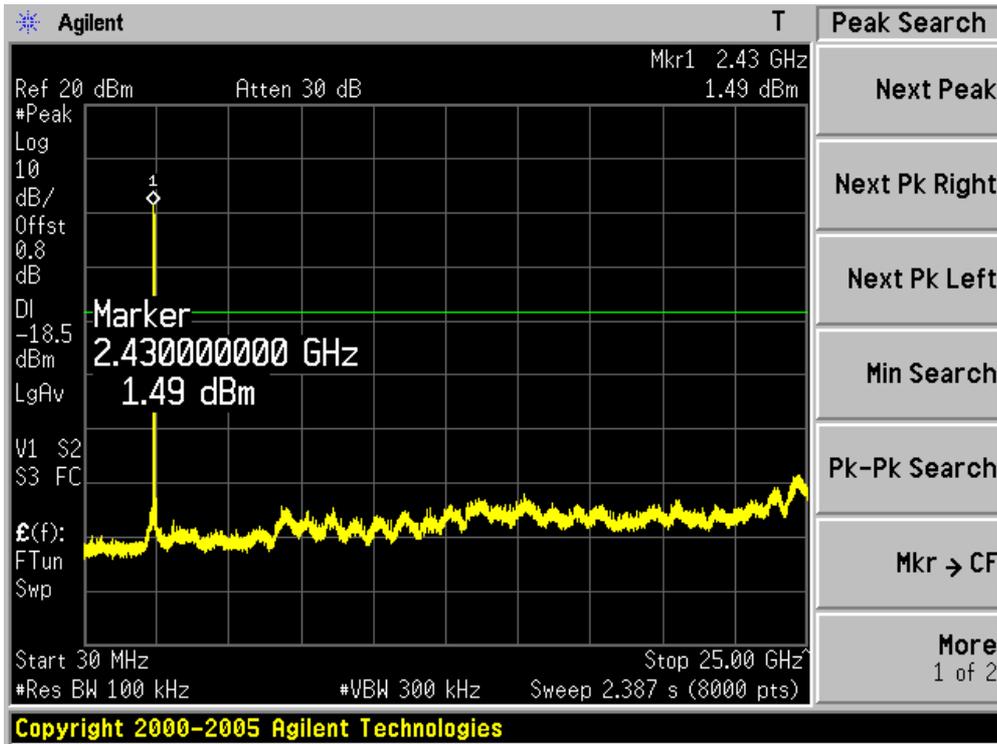


Product	:	Eee PC
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-6
Test Mode	:	Mode 2: Transmit by 802.11g

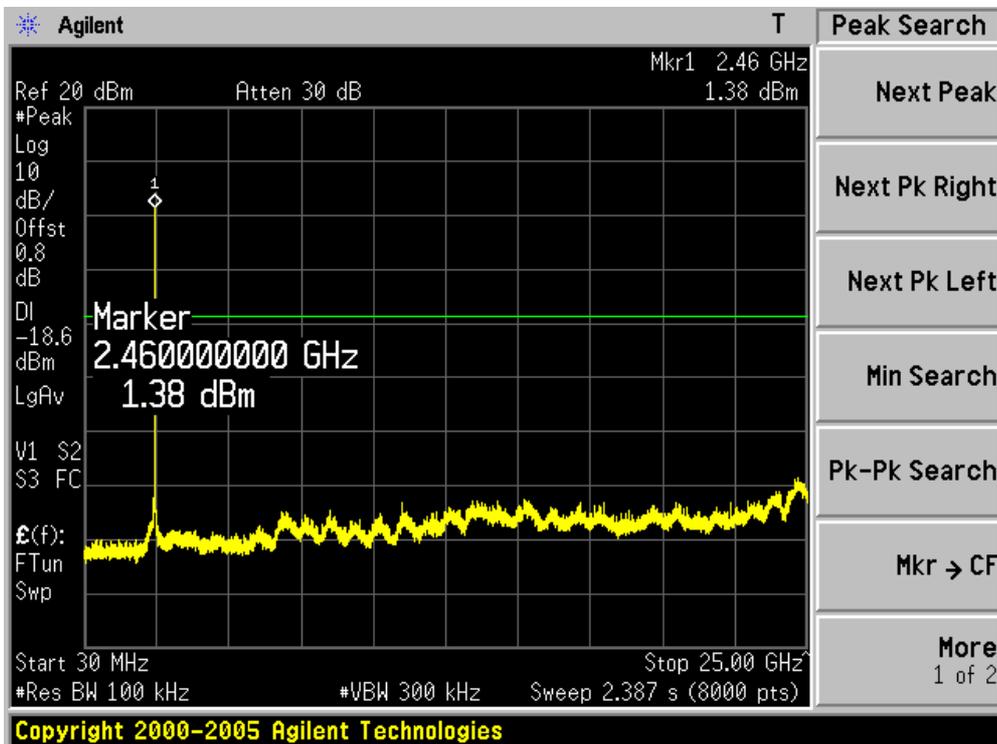
### Channel 01 (2412MHz)



Channel 06 (2437MHz)

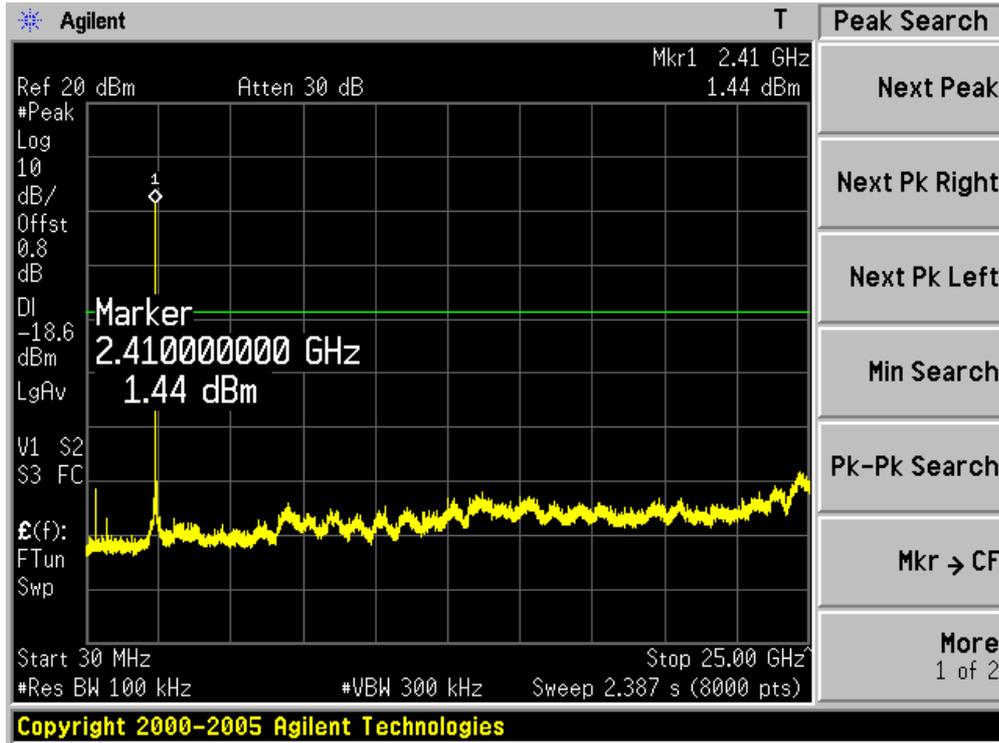


Channel 11 (2462MHz)

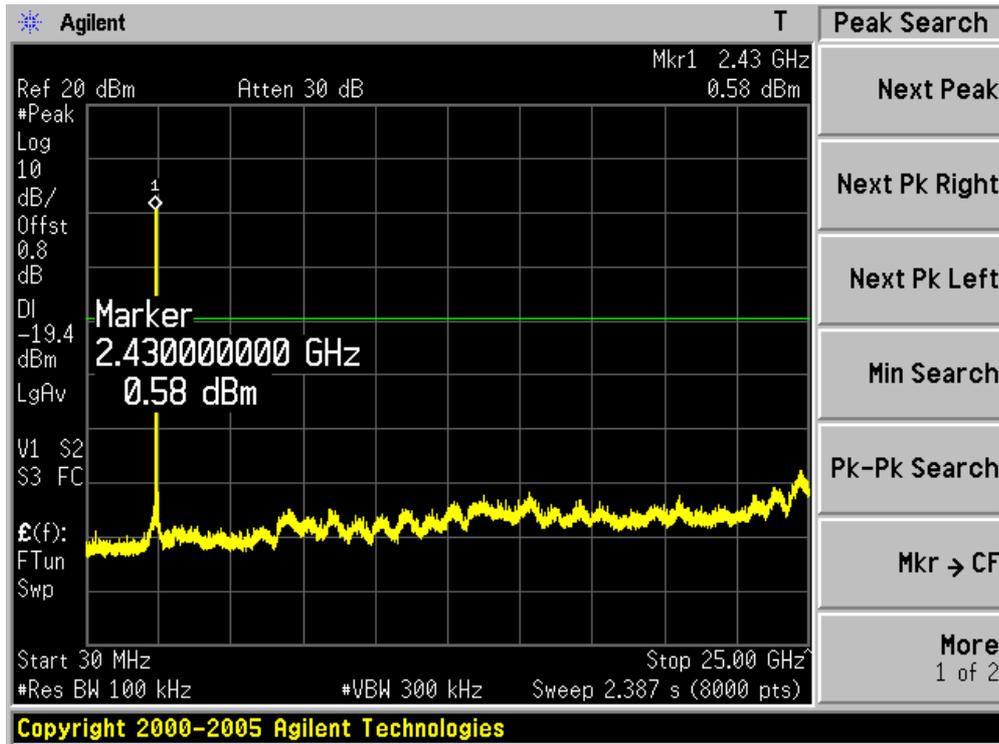


Product	:	Eee PC
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-6
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz Bandwidth)

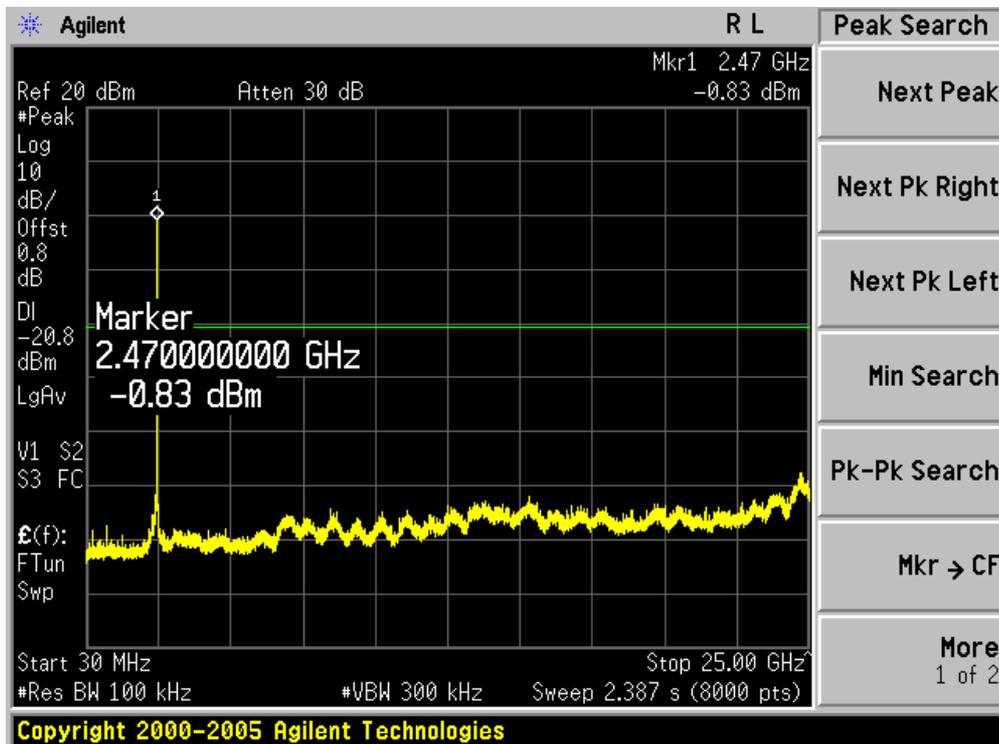
Channel 01 (2412MHz)



Channel 06 (2437MHz)

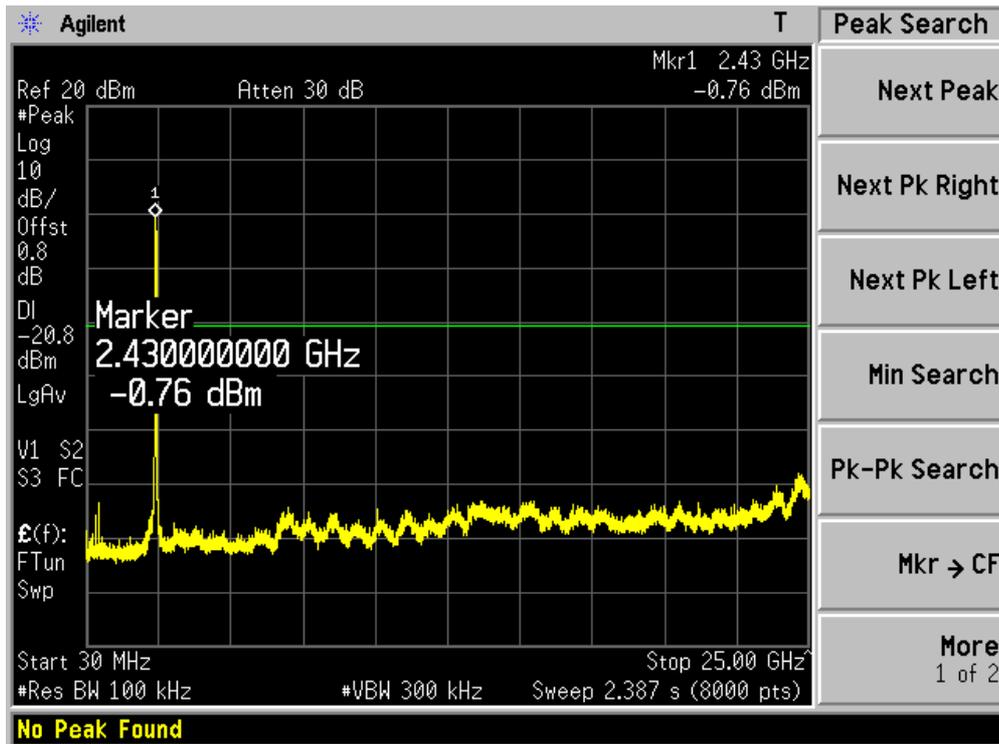


Channel 11 (2462MHz)

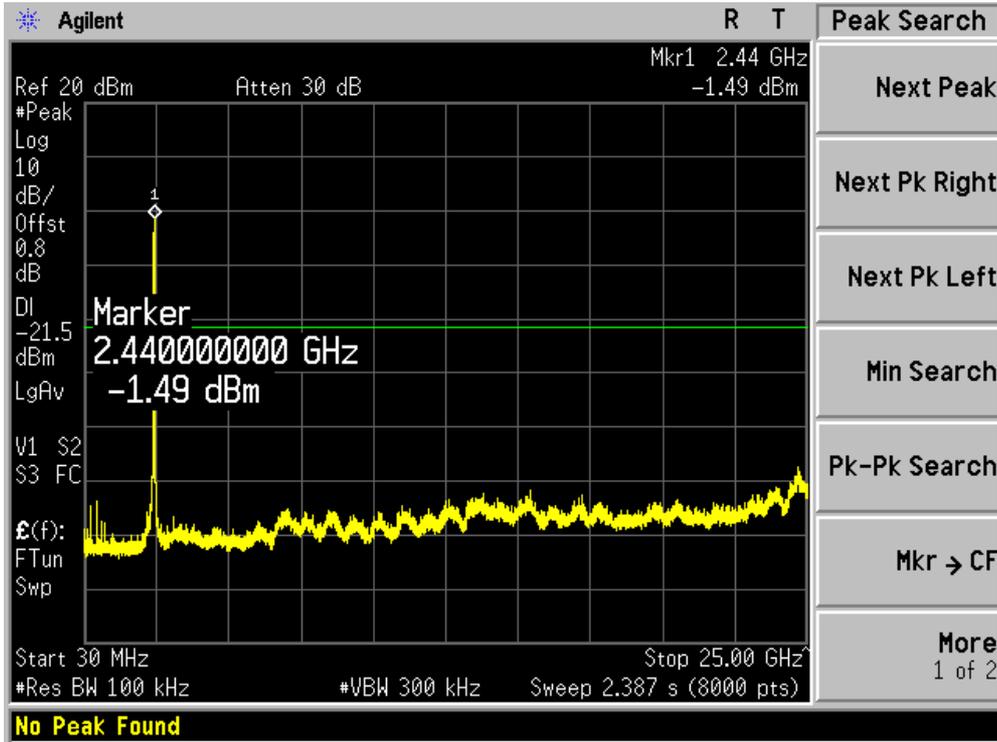


Product	:	Eee PC
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-6
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz Bandwidth)

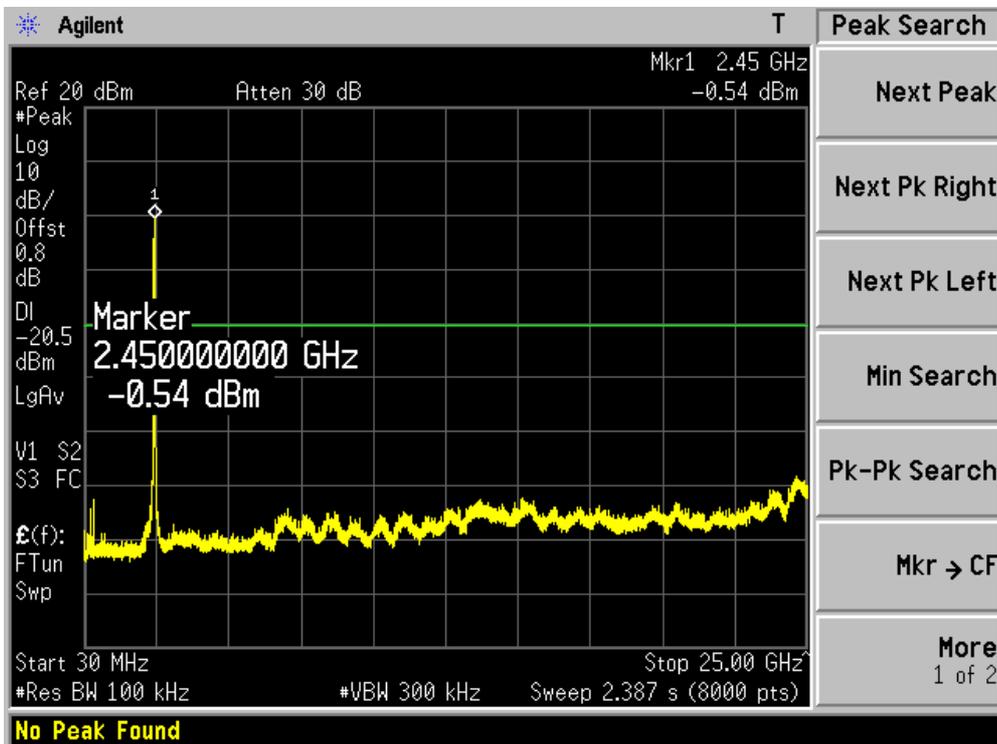
Channel 01 (2422MHz)



Channel 06 (2437MHz)



Channel 11 (2452MHz)



**6. Radiated Emission Band Edge**

**6.1. Test Equipment**

Radiated Emission / AC-5

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2008/06/11
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2008/11/24
Coaxial Cable	Huber+Suhner	AC2-C	04	2008/11/24
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH002	2009/03/30

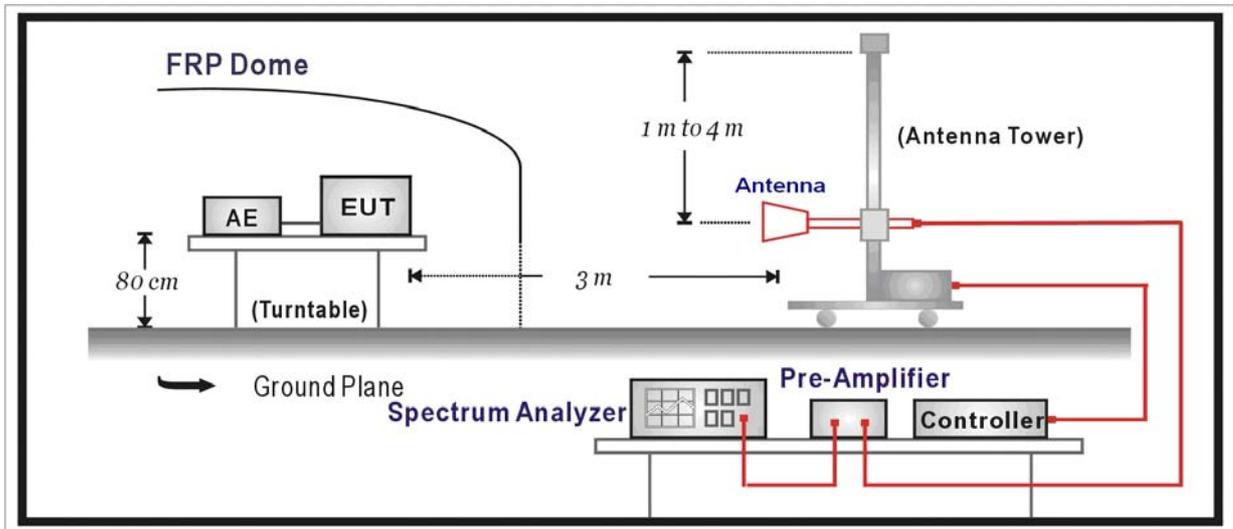
Radiated Emission / AC-3

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2009/04/23
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2008/11/24
Coaxial Cable	Huber+Suhner	AC2-C	05	2008/11/24
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH003	2009/03/30

Note 1: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

Note 2: The test instruments marked with "X" are used to measure the final test results.

**6.2. Test Setup**



**6.3. Limit**

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

**6.4. Test Procedure**

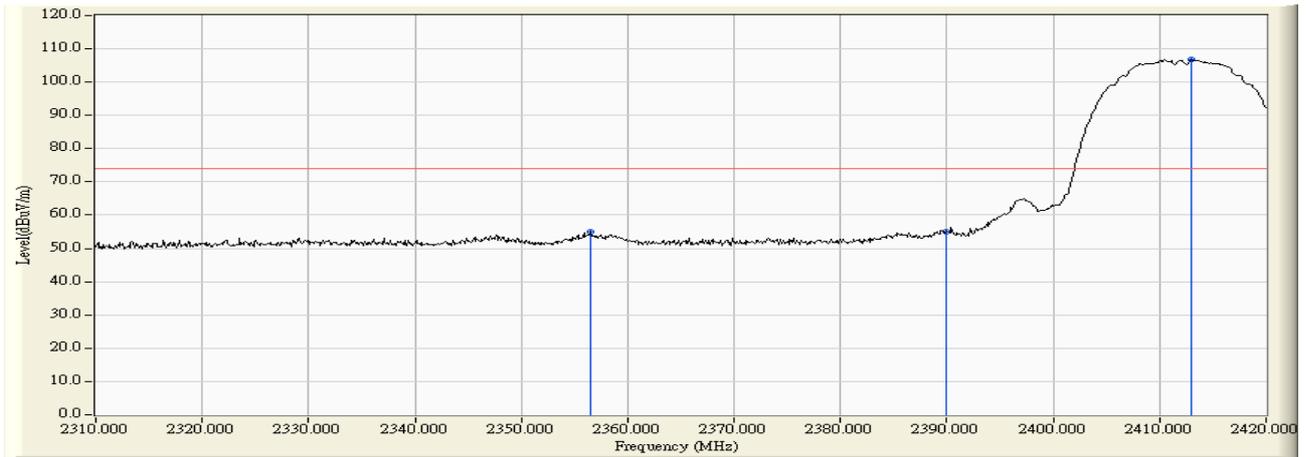
The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum 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 C63.4:2003 on radiated measurement.

**6.5. Uncertainty**

The measurement uncertainty above 1G is defined as  $\pm 3.9$  dB

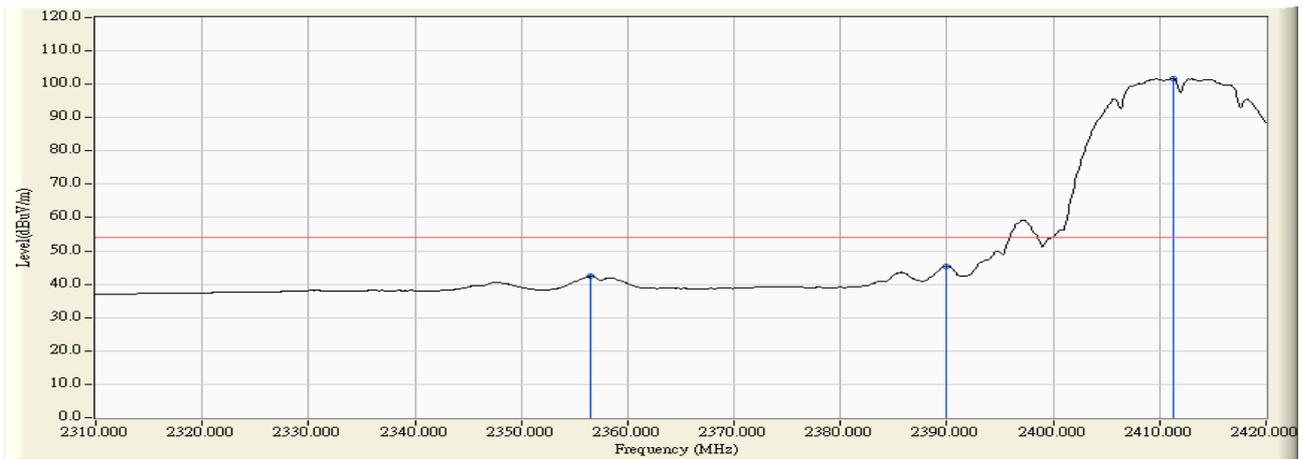
6.6. Test Result

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 11:08
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit at channel 2412MHz by 802.11b



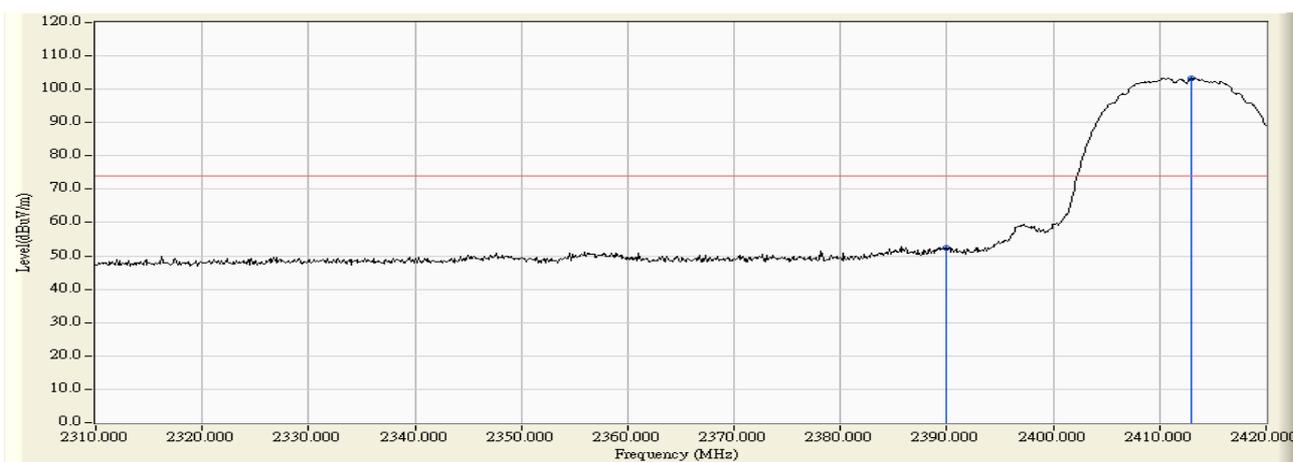
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2356.530	-5.709	60.647	54.938	-19.032	73.970	PEAK
2		2390.000	-5.675	60.835	55.160	-18.810	73.970	PEAK
3	*	2412.960	-5.626	112.370	106.745	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 11:09
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit at channel 2412MHz by 802.11b



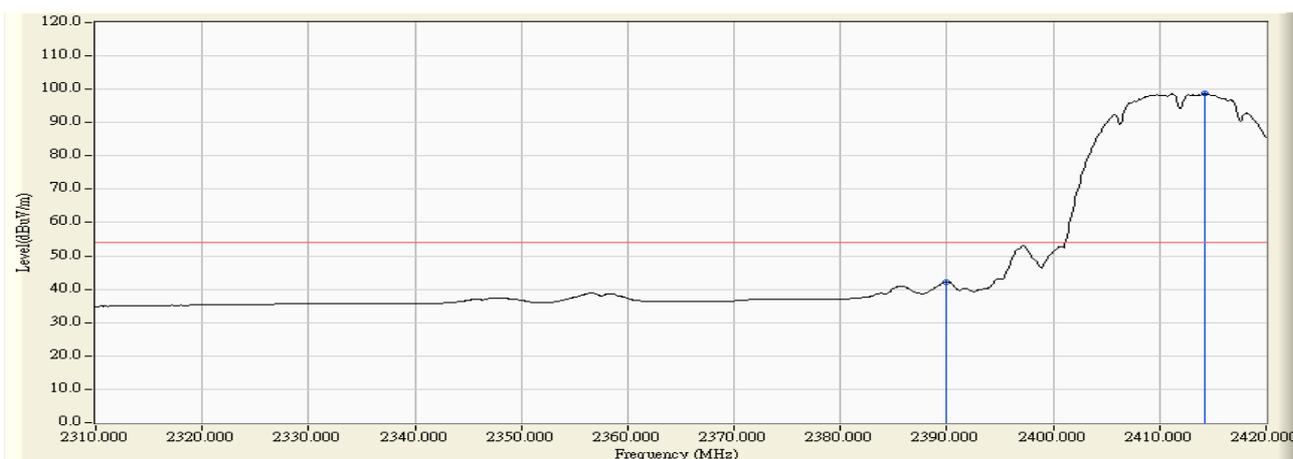
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2356.530	-5.709	48.111	42.402	-11.568	53.970	AVERAGE
2		2390.000	-5.675	51.134	45.459	-8.511	53.970	AVERAGE
3	*	2411.310	-5.629	107.437	101.807	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 11:11
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit at channel 2412MHz by 802.11b



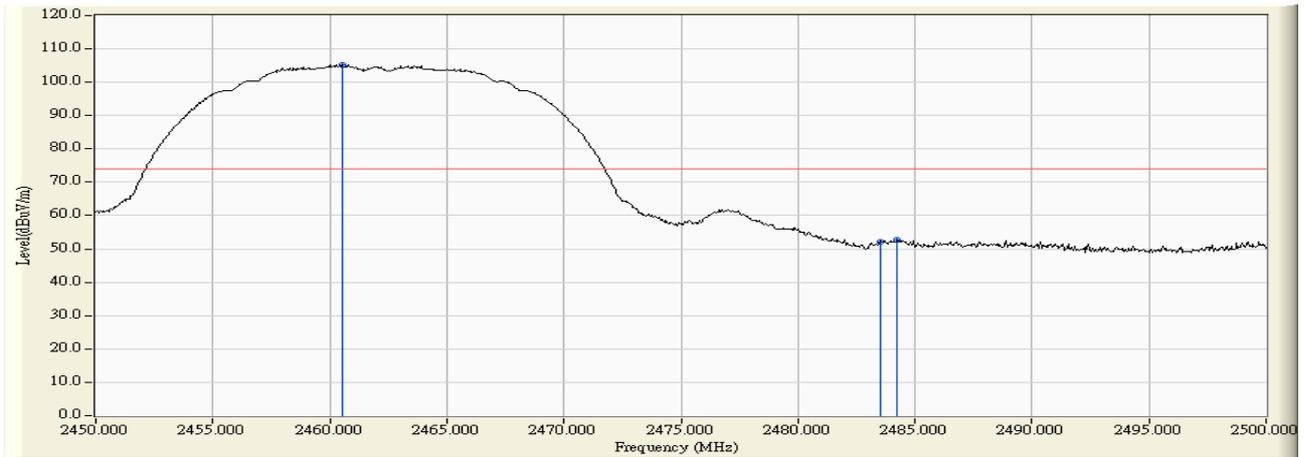
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	-5.675	58.041	52.366	-21.604	73.970	PEAK
2	*	2412.960	-5.626	109.014	103.389	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 11:11
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit at channel 2412MHz by 802.11b



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	-5.675	47.838	42.163	-11.807	53.970	AVERAGE
2	*	2414.280	-5.622	104.314	98.692	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 11:19
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit at channel 2462MHz by 802.11b



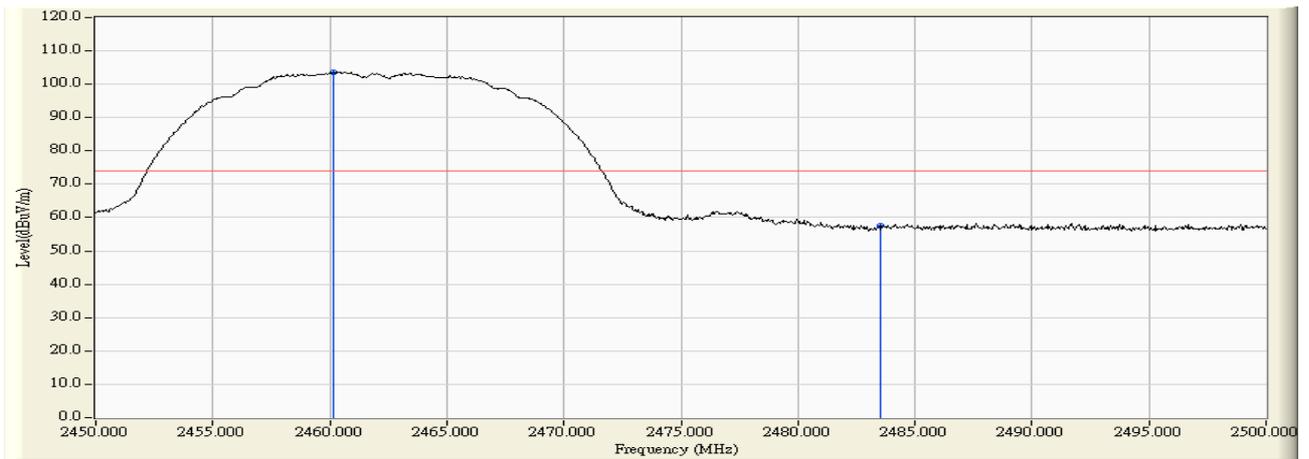
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2460.550	-5.543	110.881	105.337	N/A	N/A	PEAK
2		2483.500	-5.609	57.835	52.226	-21.744	73.970	PEAK
3		2484.250	-5.610	58.397	52.786	-21.184	73.970	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 11:19
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit at channel 2462MHz by 802.11b



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.150	-5.544	105.961	100.417	N/A	N/A	AVERAGE
2		2483.500	-5.609	45.748	40.139	-13.831	53.970	AVERAGE
3		2484.100	-5.610	46.770	41.160	-12.810	53.970	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 11:16
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit at channel 2462MHz by 802.11b



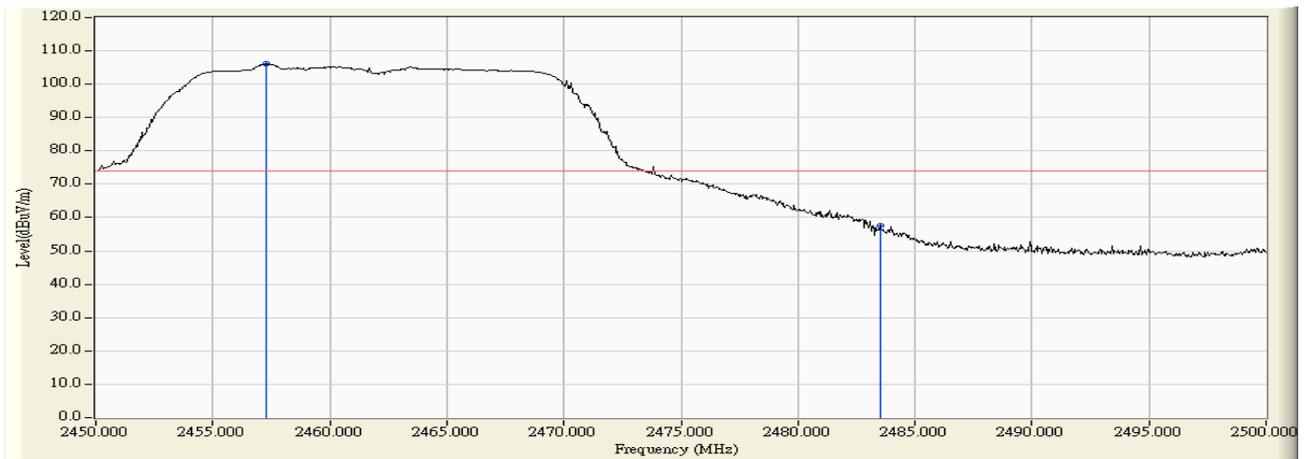
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2460.150	-5.543	109.248	103.705	N/A	N/A	PEAK
2		2483.500	-5.609	63.121	57.512	-16.458	73.970	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 11:16
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1:Transmit at channel 2462MHz by 802.11b



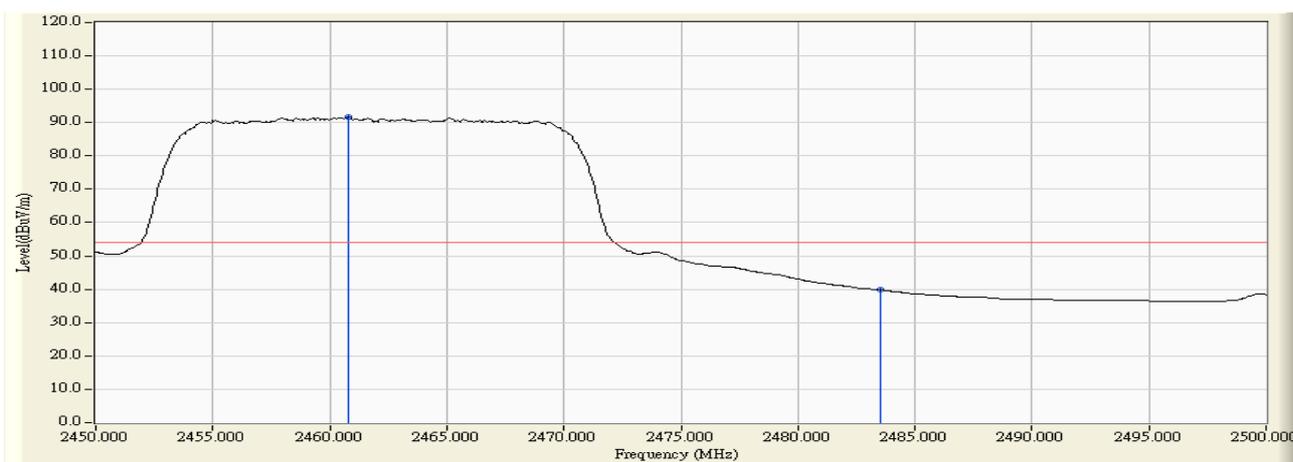
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2459.250	-5.543	104.289	98.746	N/A	N/A	AVERAGE
2		2483.500	-5.609	49.645	44.036	-9.934	53.970	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 11:23
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2:Transmit at channel 2462MHz by 802.11g



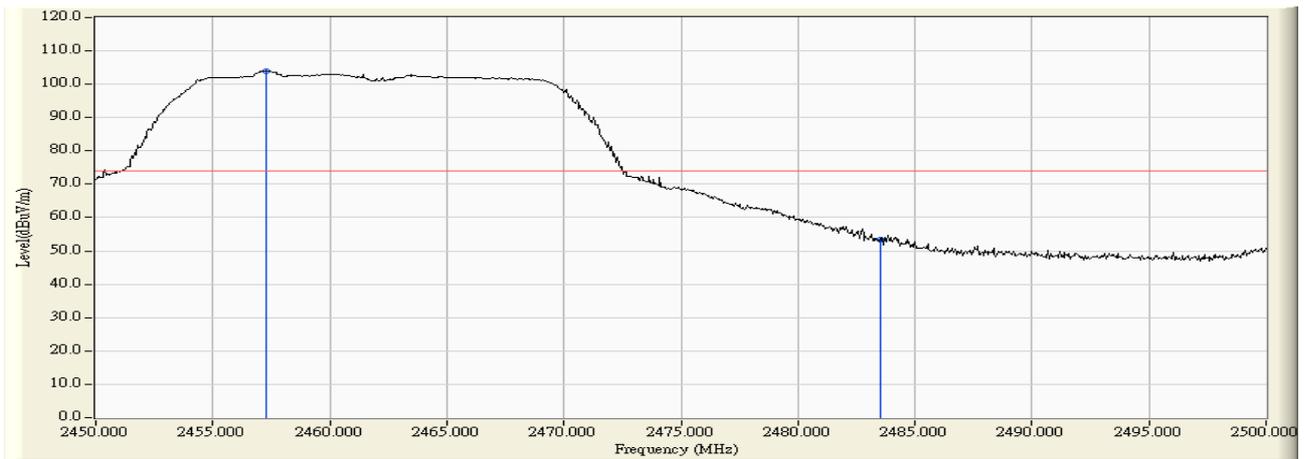
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2457.250	-5.541	111.598	106.057	N/A	N/A	PEAK
2		2483.500	-5.609	63.264	57.655	-16.315	73.970	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 11:24
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2:Transmit at channel 2462MHz by 802.11g



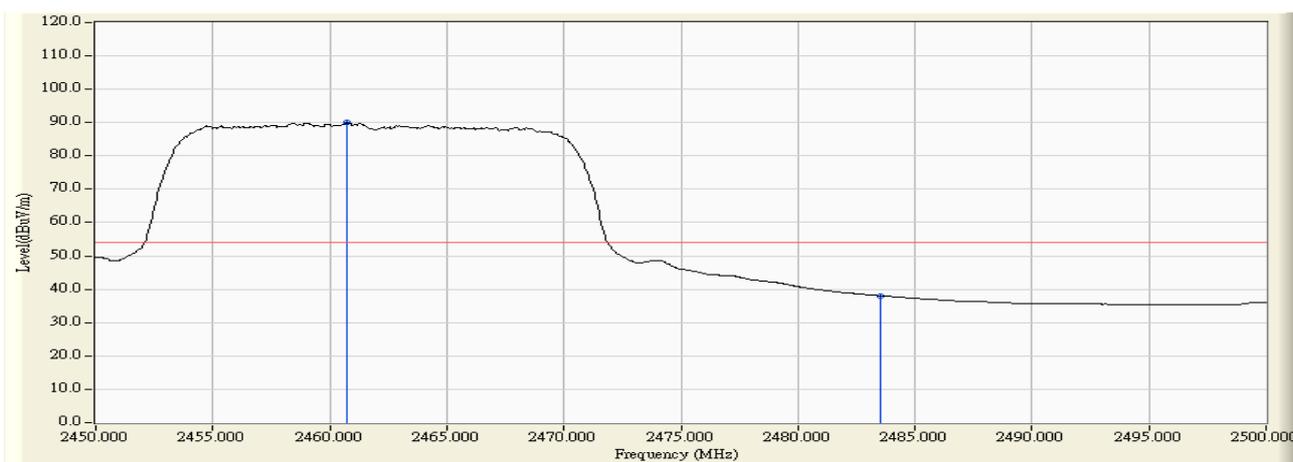
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2460.800	-5.544	97.150	91.606	N/A	N/A	AVERAGE
2		2483.500	-5.609	45.375	39.766	-14.204	53.970	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 11:26
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2:Transmit at channel 2462MHz by 802.11g



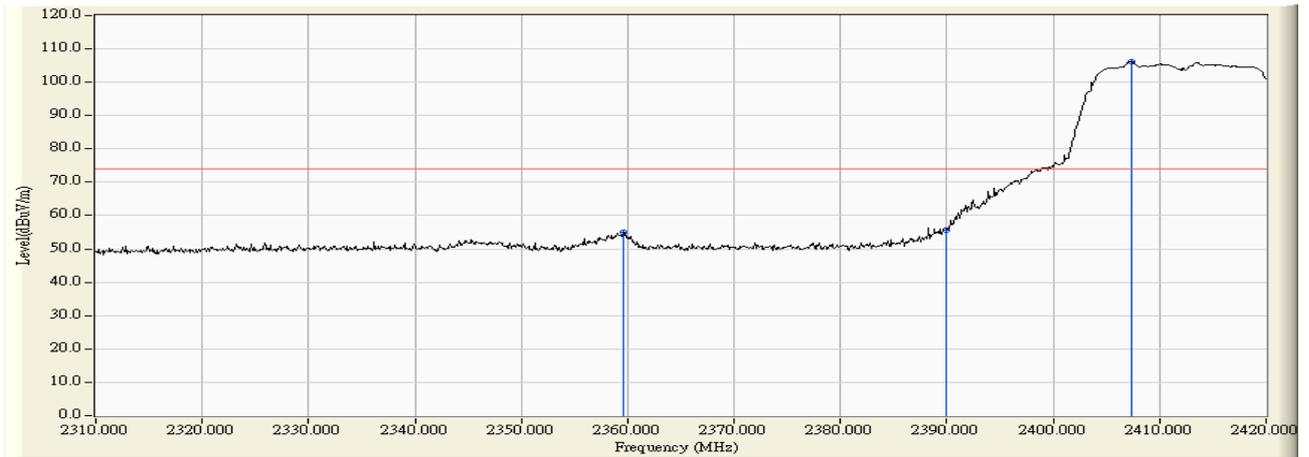
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2457.300	-5.541	109.613	104.072	N/A	N/A	PEAK
2		2483.500	-5.609	59.078	53.469	-20.501	73.970	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 11:26
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2:Transmit at channel 2462MHz by 802.11g



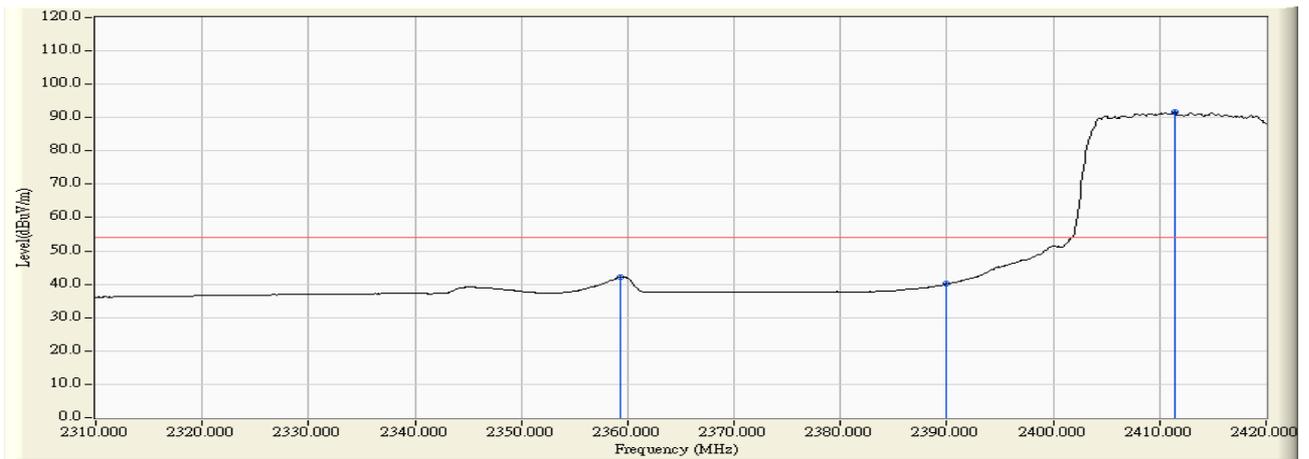
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2460.750	-5.544	95.485	89.941	N/A	N/A	AVERAGE
2		2483.500	-5.609	43.717	38.108	-15.862	53.970	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 11:33
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2:Transmit at channel 2412MHz by 802.11g



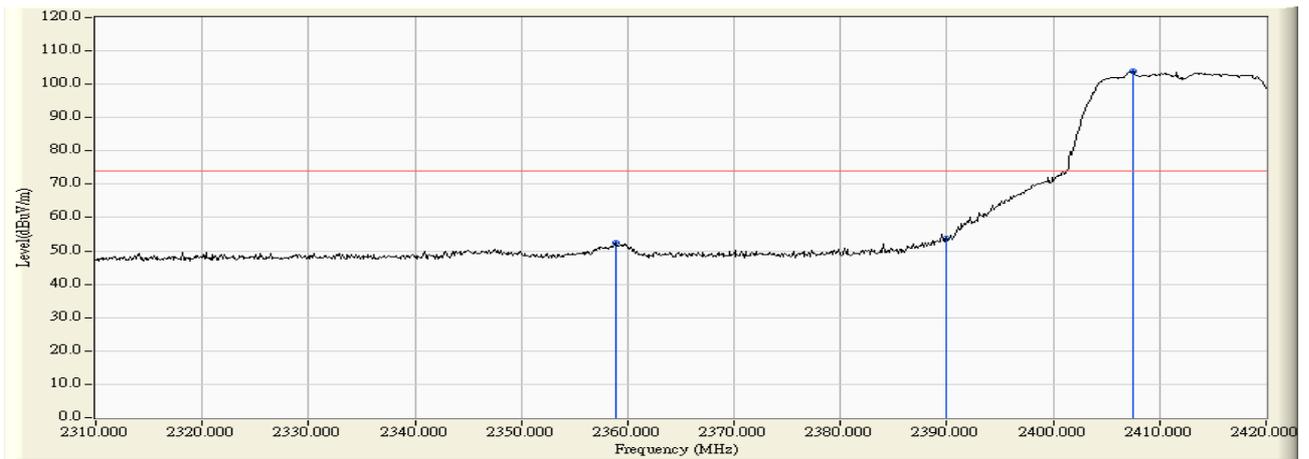
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2359.610	-5.712	60.723	55.011	-18.959	73.970	PEAK
2		2390.000	-5.675	61.439	55.764	-18.206	73.970	PEAK
3	*	2407.350	-5.639	111.878	106.239	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 11:33
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2:Transmit at channel 2412MHz by 802.11g



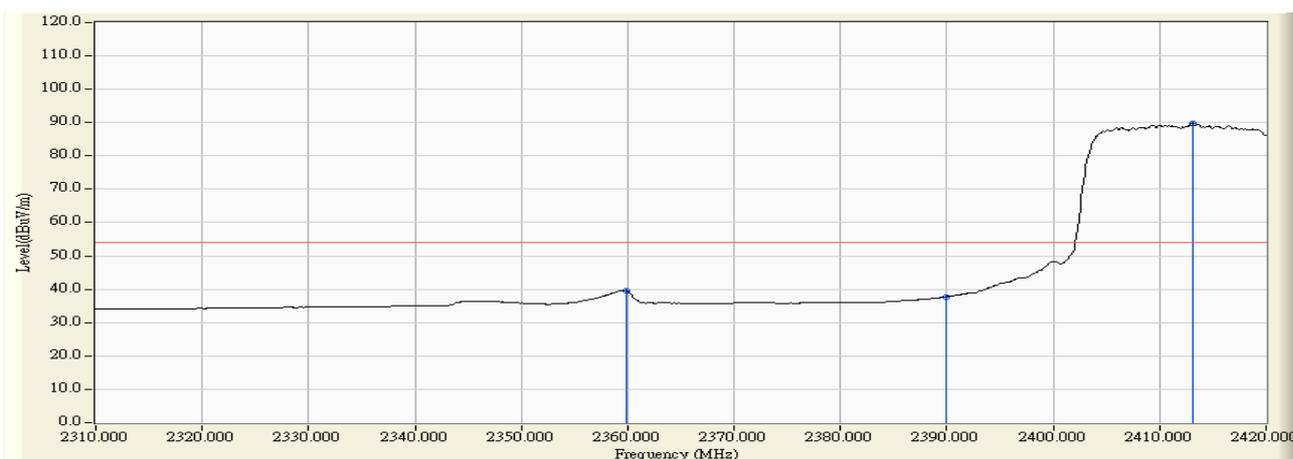
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2359.280	-5.712	47.780	42.069	-11.901	53.970	AVERAGE
2		2390.000	-5.675	45.756	40.081	-13.889	53.970	AVERAGE
3	*	2411.420	-5.629	97.209	91.580	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 11:30
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2:Transmit at channel 2412MHz by 802.11g



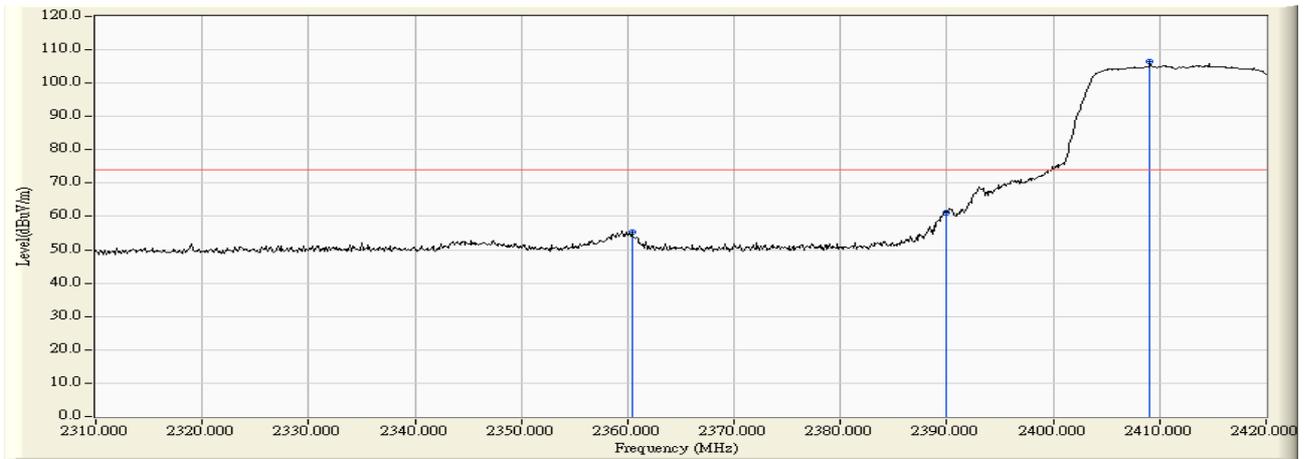
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2358.840	-5.711	57.993	52.282	-21.688	73.970	PEAK
2		2390.000	-5.675	59.450	53.775	-20.195	73.970	PEAK
3	*	2407.460	-5.639	109.464	103.825	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 11:31
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2:Transmit at channel 2412MHz by 802.11g



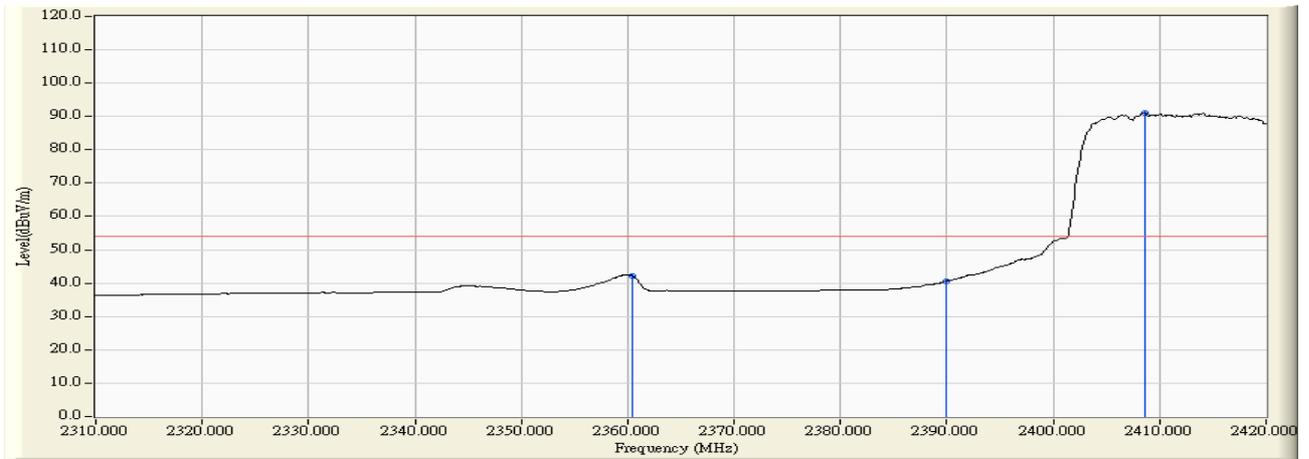
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2359.830	-5.712	45.189	39.477	-14.493	53.970	AVERAGE
2		2390.000	-5.675	43.462	37.787	-16.183	53.970	AVERAGE
3	*	2413.070	-5.625	95.361	89.736	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 11:37
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 3:Transmit at channel 2412MHz by 802.11n(20MHz)



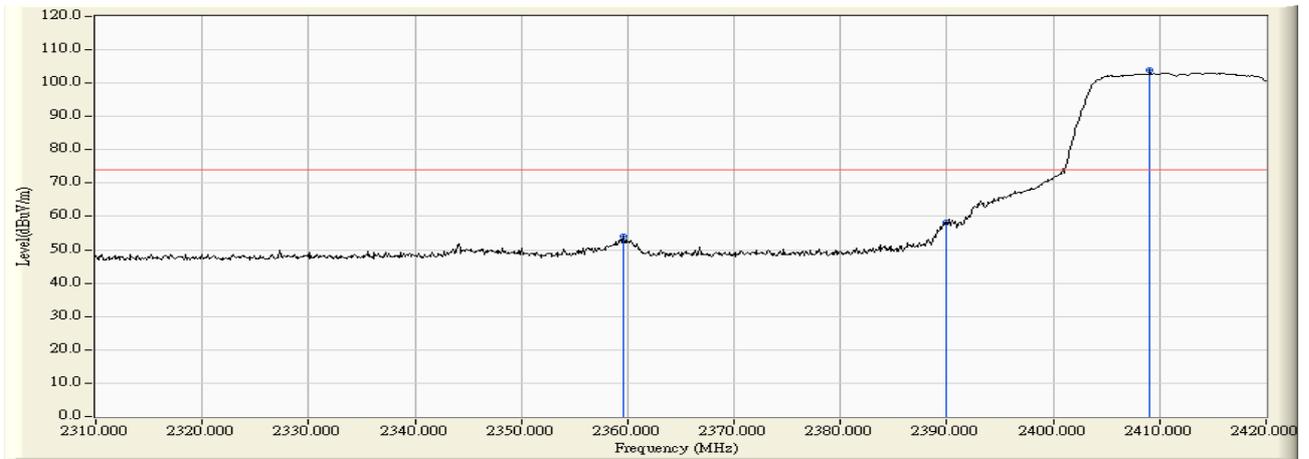
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2360.380	-5.712	61.076	55.364	-18.606	73.970	PEAK
2		2390.000	-5.675	66.898	61.223	-12.747	73.970	PEAK
3	*	2409.110	-5.635	111.993	106.358	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 11:37
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 3:Transmit at channel 2412MHz by 802.11n(20MHz)



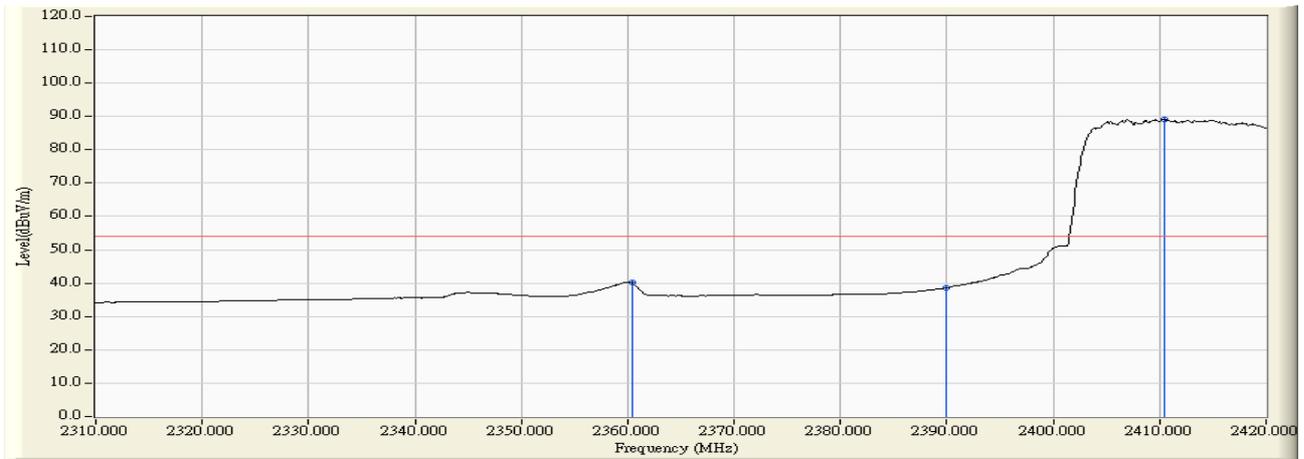
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2360.380	-5.712	47.970	42.258	-11.712	53.970	AVERAGE
2		2390.000	-5.675	46.341	40.666	-13.304	53.970	AVERAGE
3	*	2408.670	-5.636	96.699	91.063	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 11:40
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 3:Transmit at channel 2412MHz by 802.11n(20MHz)



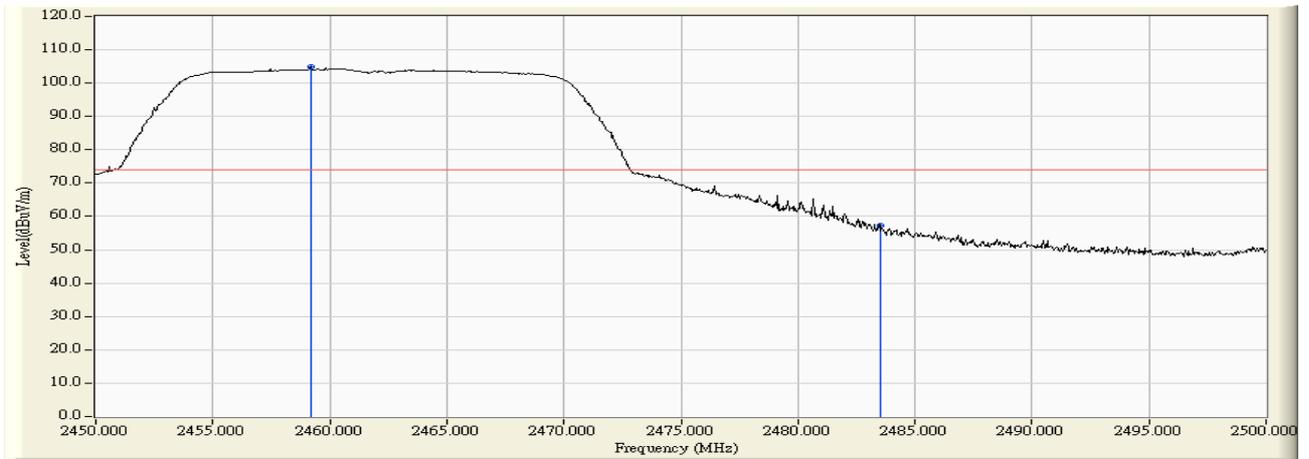
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2359.610	-5.712	59.814	54.102	-19.868	73.970	PEAK
2		2390.000	-5.675	63.762	58.087	-15.883	73.970	PEAK
3	*	2409.110	-5.635	109.489	103.854	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 11:40
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 3:Transmit at channel 2412MHz by 802.11n(20MHz)



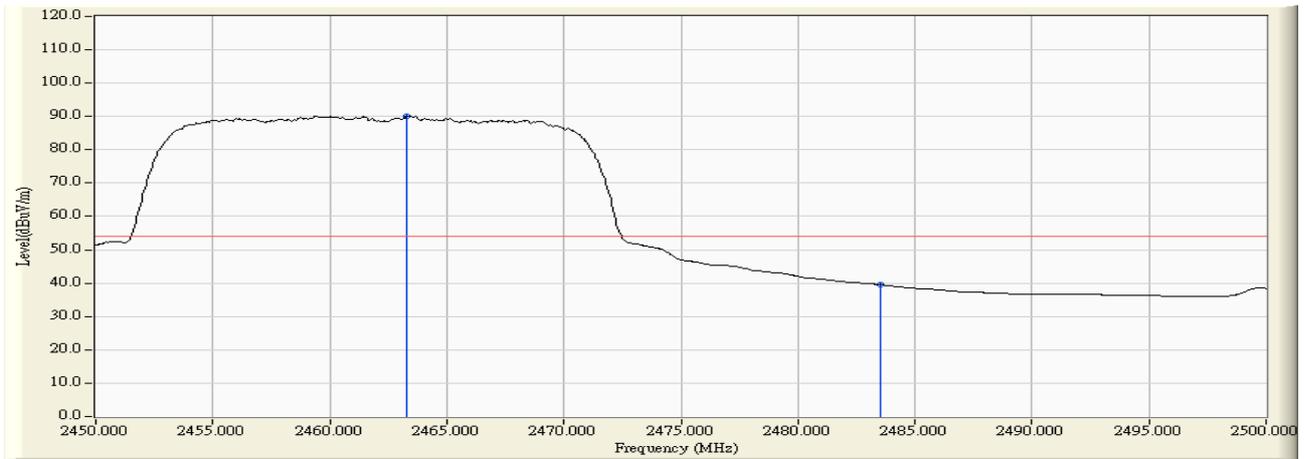
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2360.380	-5.712	45.788	40.076	-13.894	53.970	AVERAGE
2		2390.000	-5.675	44.350	38.675	-15.295	53.970	AVERAGE
3	*	2410.430	-5.632	94.900	89.268	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 11:46
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 3:Transmit at channel 2462MHz by 802.11n(20MHz)



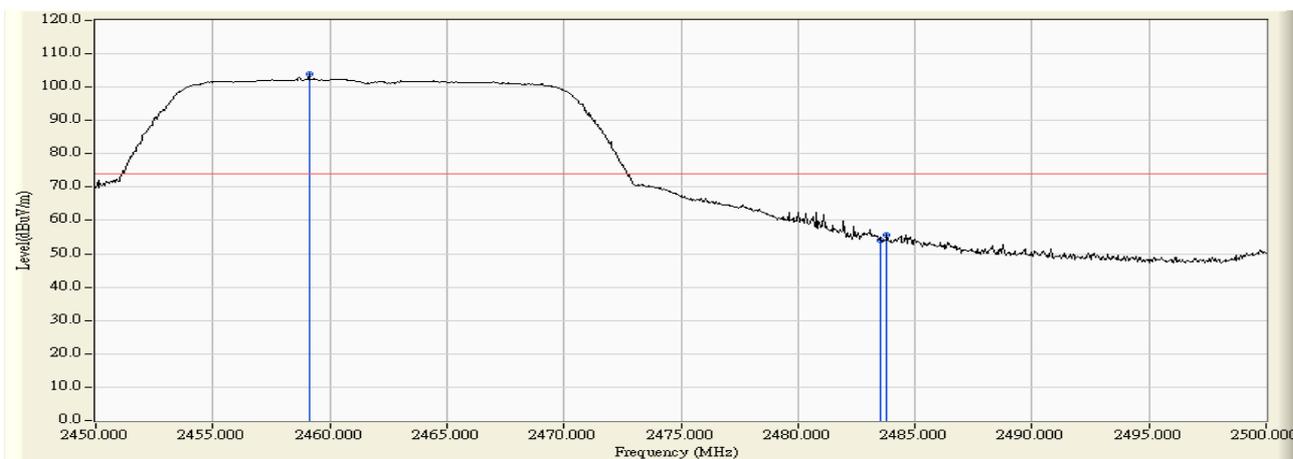
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2459.200	-5.543	110.450	104.907	N/A	N/A	PEAK
2		2483.500	-5.609	62.785	57.176	-16.794	73.970	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 11:47
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 3:Transmit at channel 2462MHz by 802.11n(20MHz)



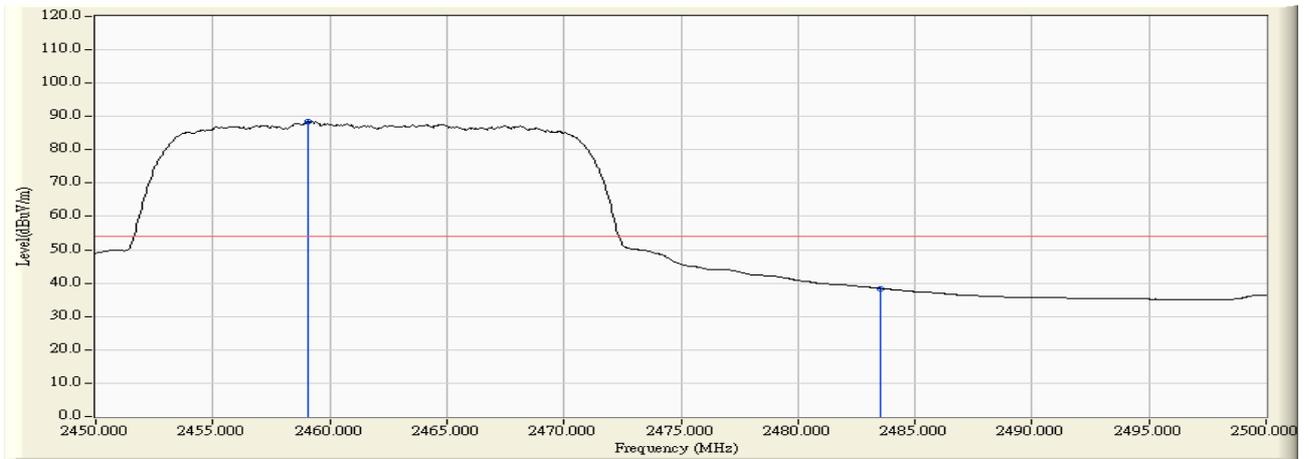
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.300	-5.549	95.769	90.220	N/A	N/A	AVERAGE
2		2483.500	-5.609	45.072	39.463	-14.507	53.970	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 11:44
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 3:Transmit at channel 2462MHz by 802.11n(20MHz)



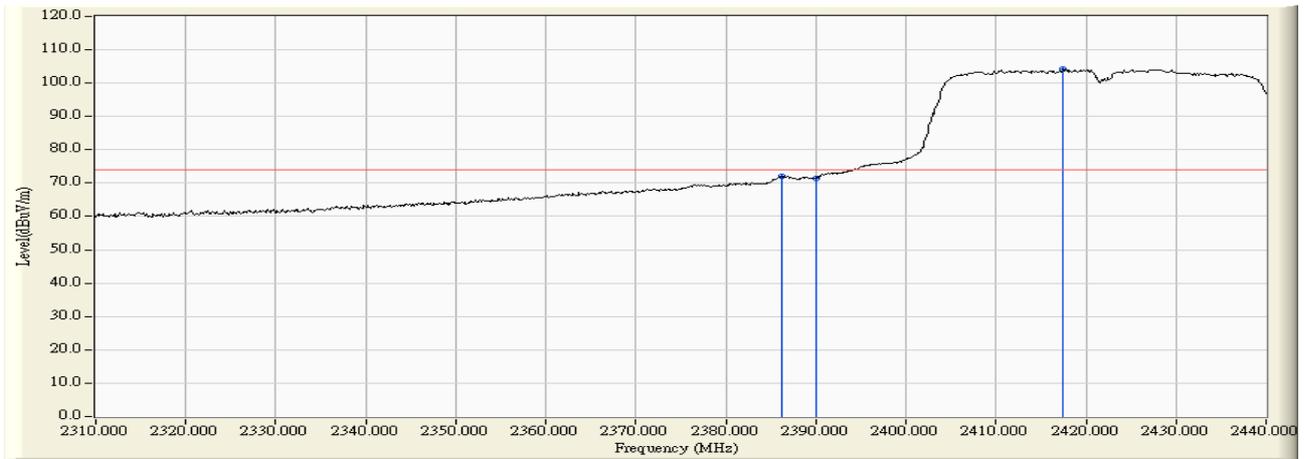
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2459.100	-5.543	109.304	103.762	N/A	N/A	PEAK
2		2483.500	-5.609	59.773	54.164	-19.806	73.970	PEAK
3		2483.800	-5.609	61.304	55.695	-18.275	73.970	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 11:44
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 3:Transmit at channel 2462MHz by 802.11n(20MHz)



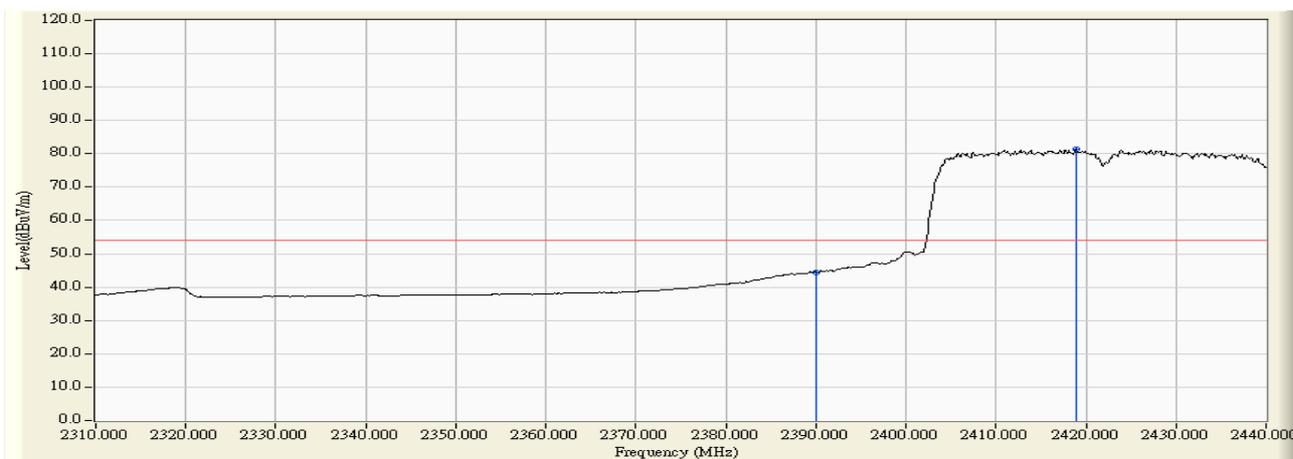
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2459.050	-5.543	94.035	88.493	N/A	N/A	AVERAGE
2		2483.500	-5.609	44.049	38.440	-15.530	53.970	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 13:07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 4:Transmit at channel 2422MHz by 802.11n(40MHz)



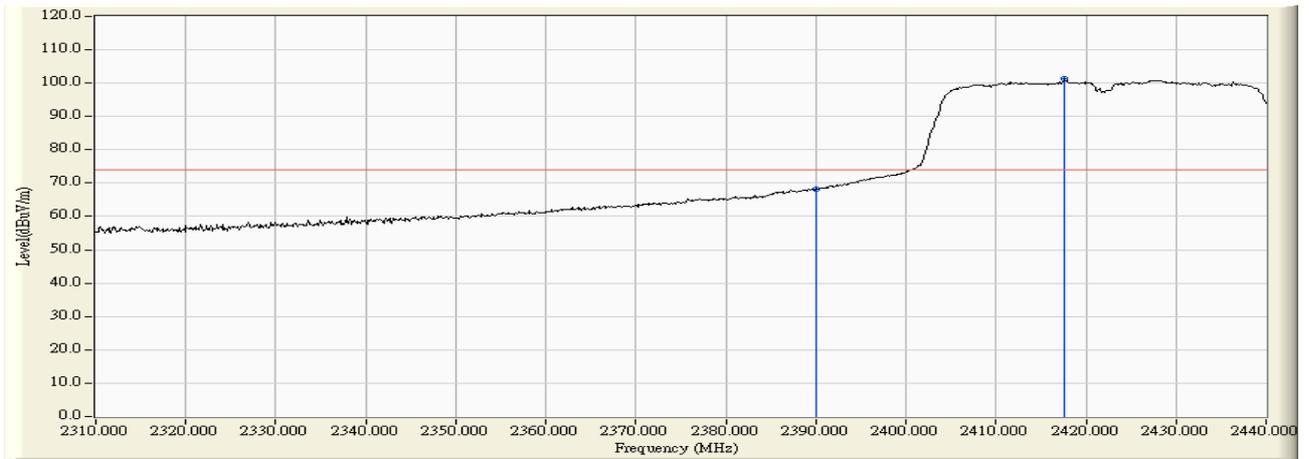
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2386.180	-5.679	77.588	71.908	-2.062	73.970	PEAK
2		2390.000	-5.675	77.204	71.529	-2.441	73.970	PEAK
3	*	2417.380	-5.614	109.890	104.276	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 13:07
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 4:Transmit at channel 2422MHz by 802.11n(40MHz)



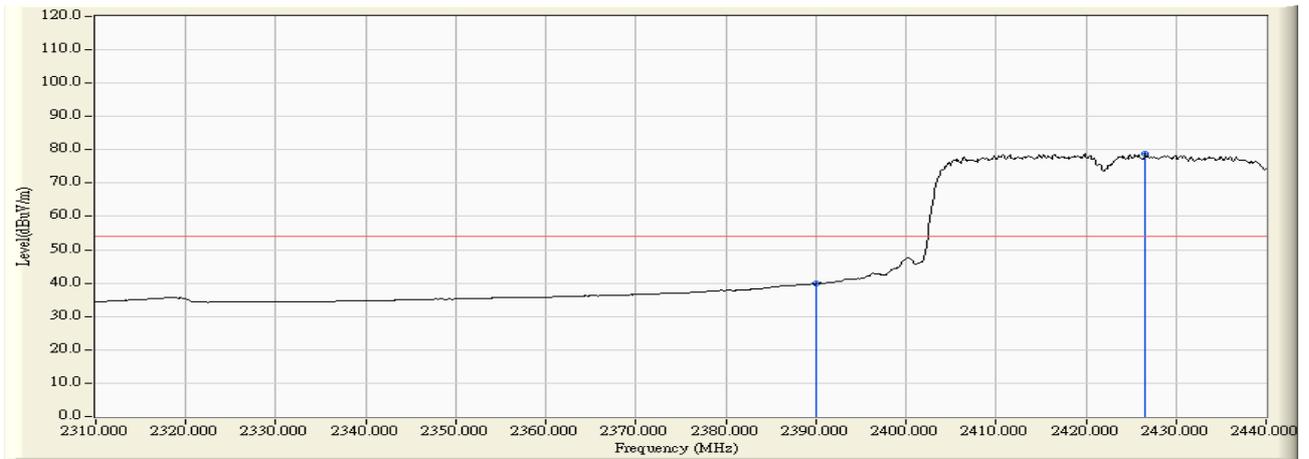
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	-5.675	50.109	44.434	-9.536	53.970	AVERAGE
2	*	2418.940	-5.610	86.923	81.313	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 13:09
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 4:Transmit at channel 2422MHz by 802.11n(40MHz)



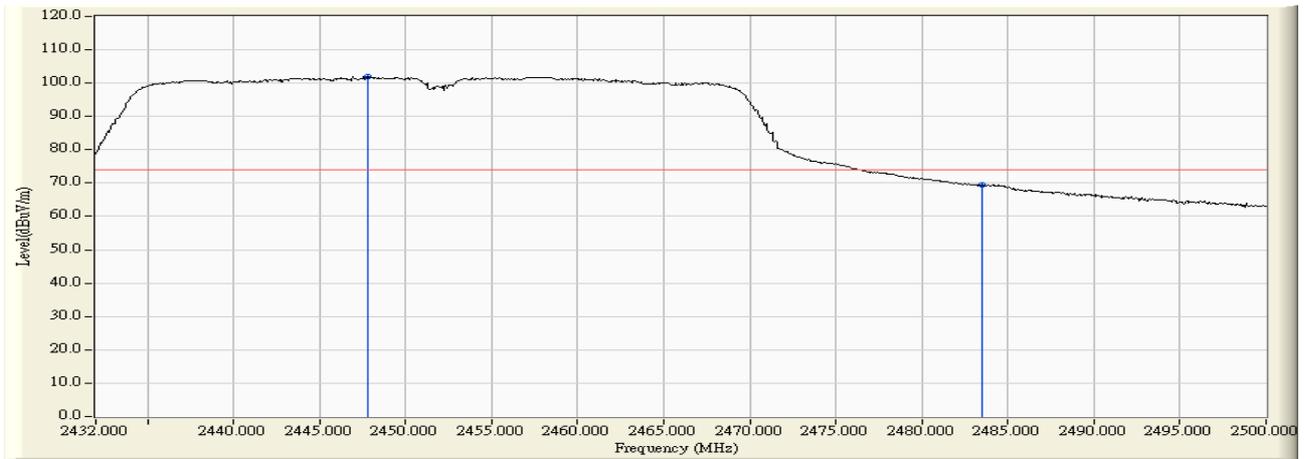
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	-5.675	73.872	68.197	-5.773	73.970	PEAK
2	*	2417.640	-5.613	107.015	101.402	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 13:10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 4:Transmit at channel 2422MHz by 802.11n(40MHz)



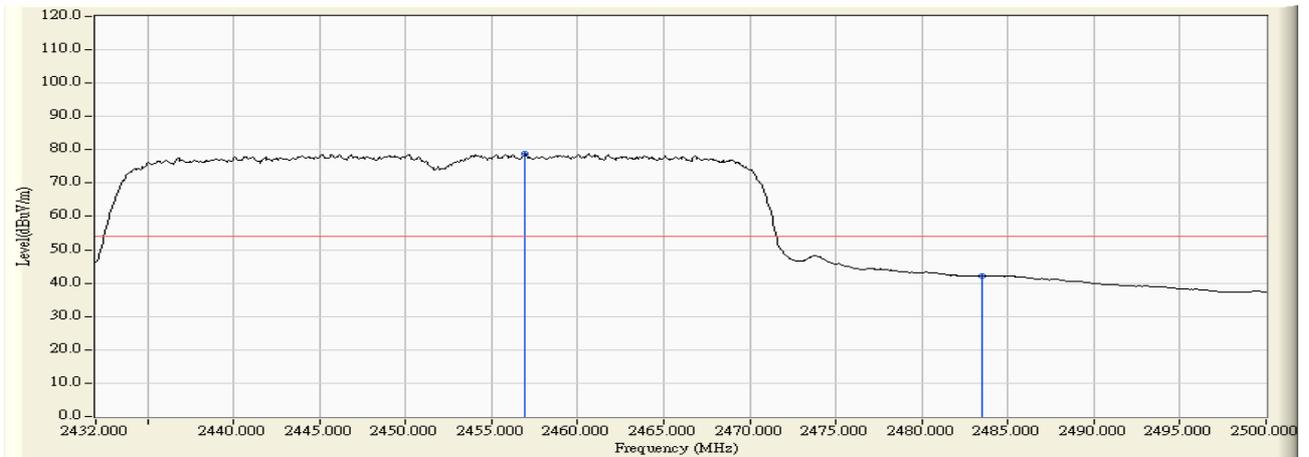
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	-5.675	45.521	39.846	-14.124	53.970	AVERAGE
2	*	2426.610	-5.589	84.384	78.794	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 13:19
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 4:Transmit at channel 2452MHz by 802.11n(40MHz)



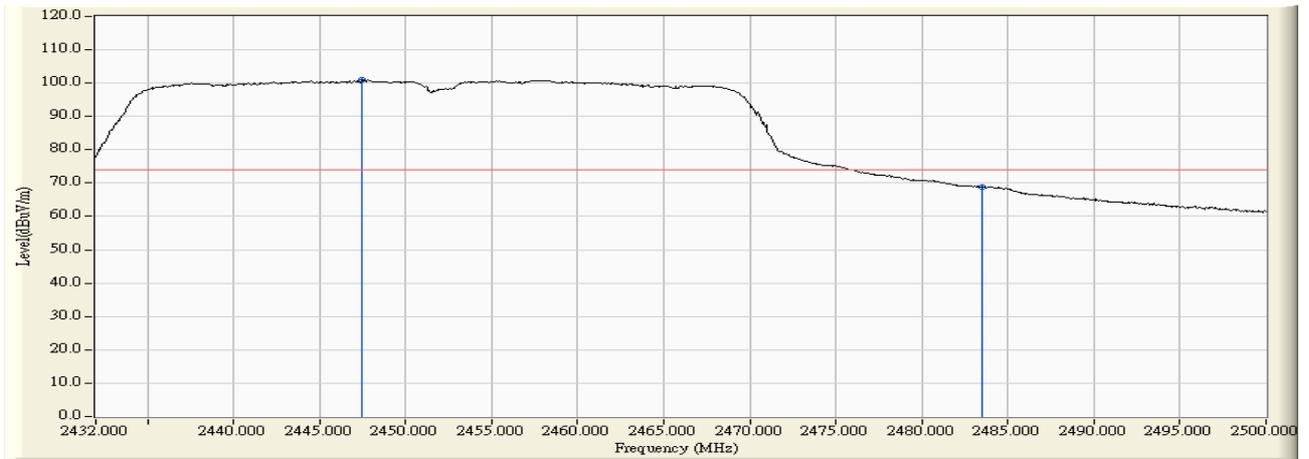
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2447.776	-5.533	107.663	102.129	N/A	N/A	PEAK
2		2483.500	-5.609	74.991	69.382	-4.588	73.970	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 13:20
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 4:Transmit at channel 2452MHz by 802.11n(40MHz)



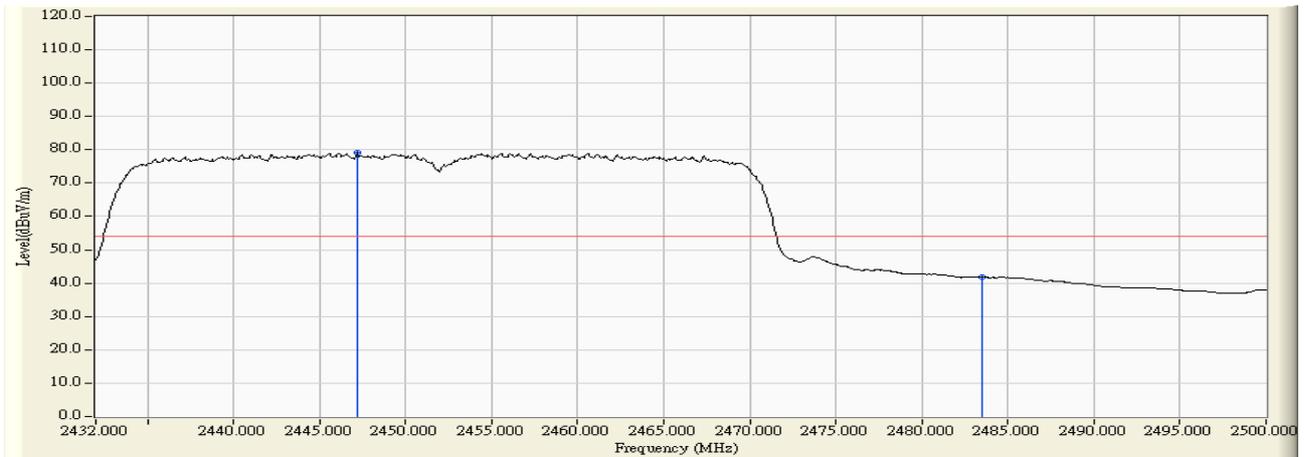
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2456.956	-5.541	84.299	78.758	N/A	N/A	AVERAGE
2		2483.500	-5.609	47.749	42.140	-11.830	53.970	AVERAGE

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 13:14
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 4:Transmit at channel 2452MHz by 802.11n(40MHz)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2447.436	-5.534	106.575	101.042	N/A	N/A	PEAK
2		2483.500	-5.609	74.443	68.834	-5.136	73.970	PEAK

Engineer : Jame	
Site : AC-5 (3m Semi-Anechoic Chamber)	Time : 2009/05/12 - 13:14
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Eee PC 1101HA	Probe : 9120D_499(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 4:Transmit at channel 2452MHz by 802.11n(40MHz)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2447.232	-5.534	84.573	79.040	N/A	N/A	AVERAGE
2		2483.500	-5.609	47.442	41.833	-12.137	53.970	AVERAGE

## 7. Operation Frequency Range of 20dB Bandwidth

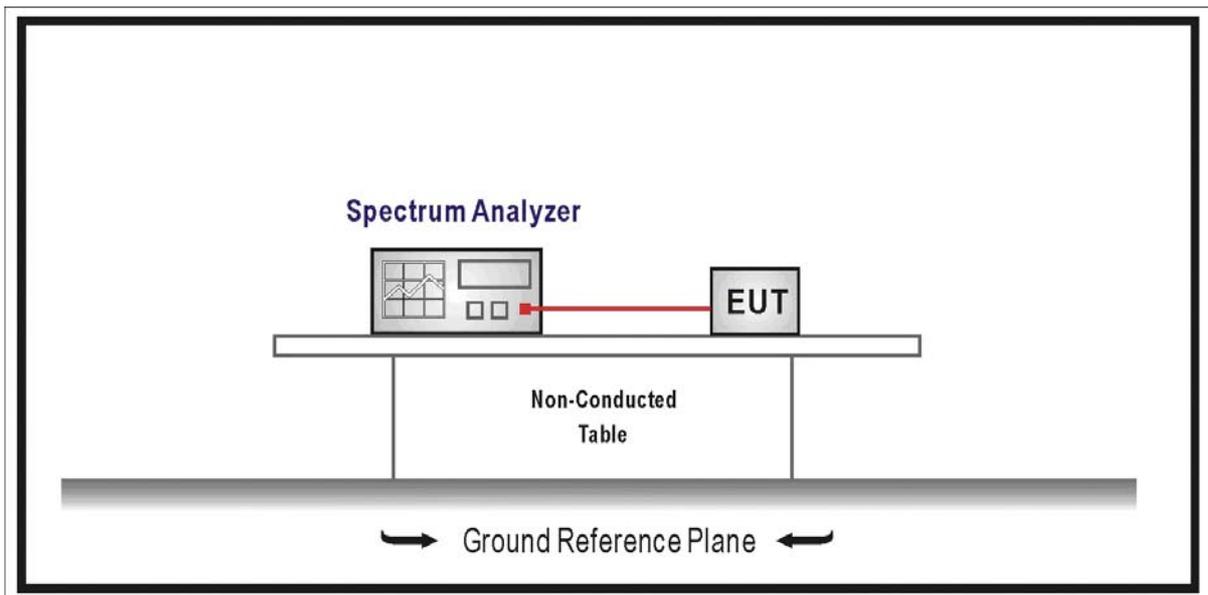
### 7.1. Test Equipment

Operation Frequency Range of 20dB Bandwidth / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2008/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2008/11/24
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2009/03/01

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 7.2. Test Setup



### 7.3. Limit

20 dB bandwidth of the emission is contained within the operation frequency band.

### 7.4. Test Procedure

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Span greater than RBW.

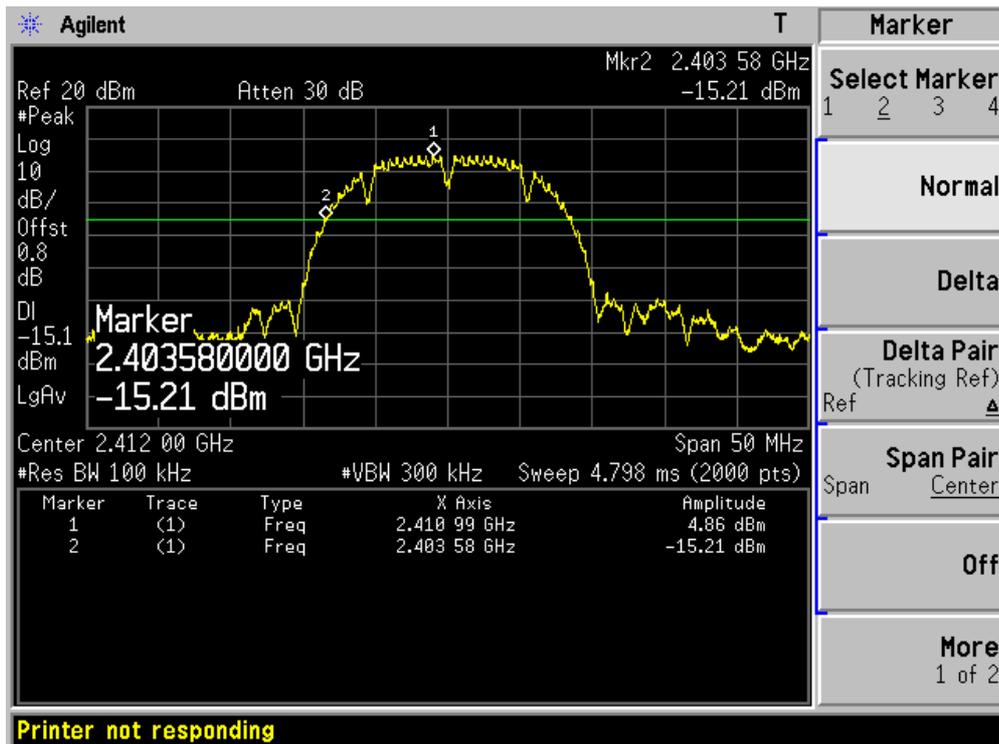
## 7.5. Uncertainty

The measurement uncertainty is defined as  $\pm 1$  kHz

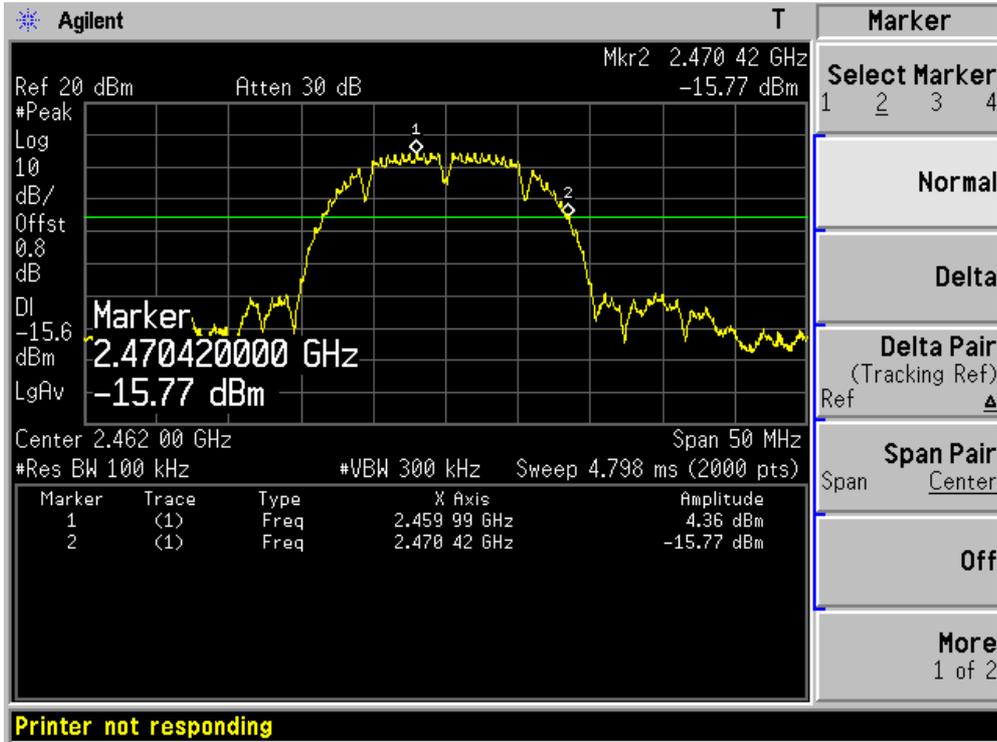
7.6. Test Result

Product	:	Eee PC
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 1: Transmit by 802.11b

Channel 01 (2412MHz)

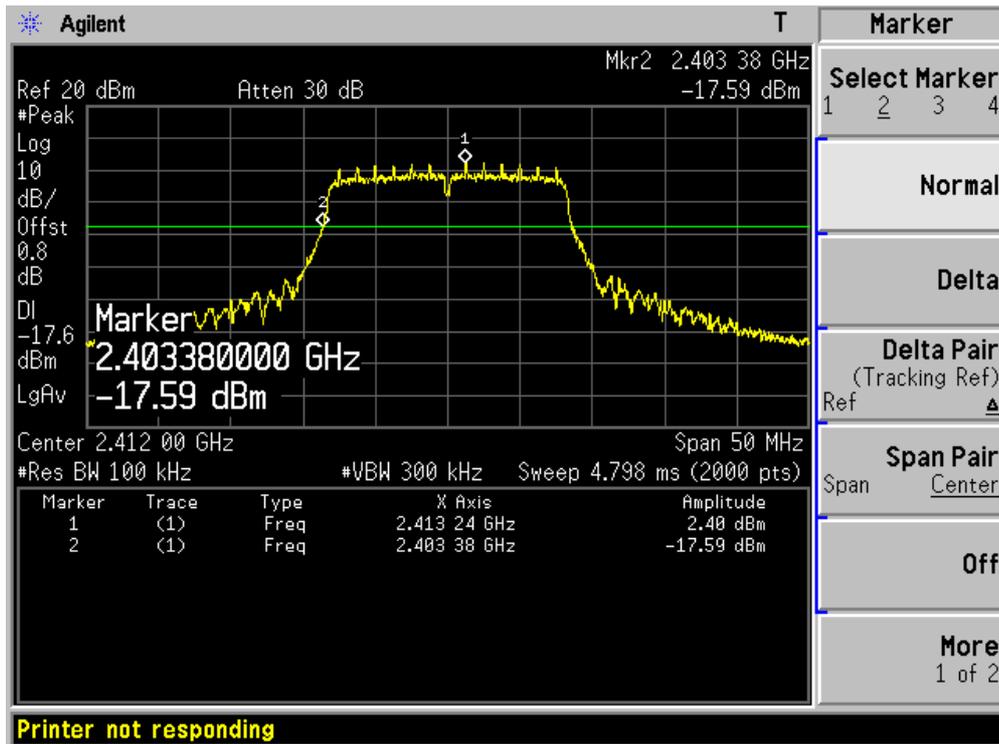


Channel 11 (2462MHz)

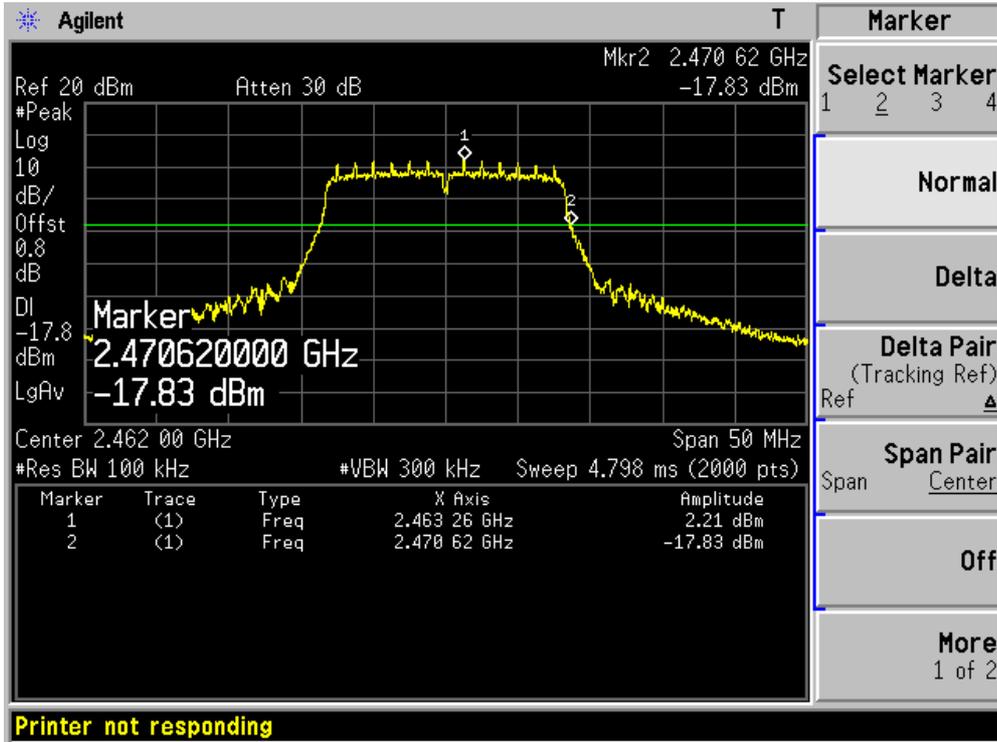


Product	:	Eee PC
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 2: Transmit by 802.11g

### Channel 01 (2412MHz)

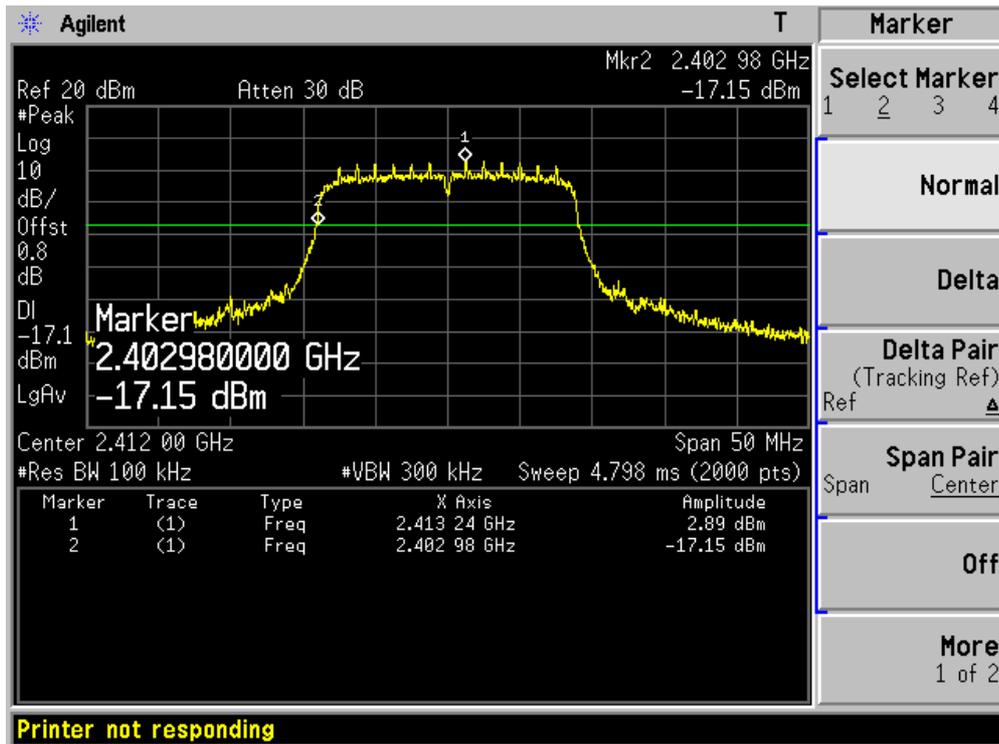


Channel 11 (2462MHz)

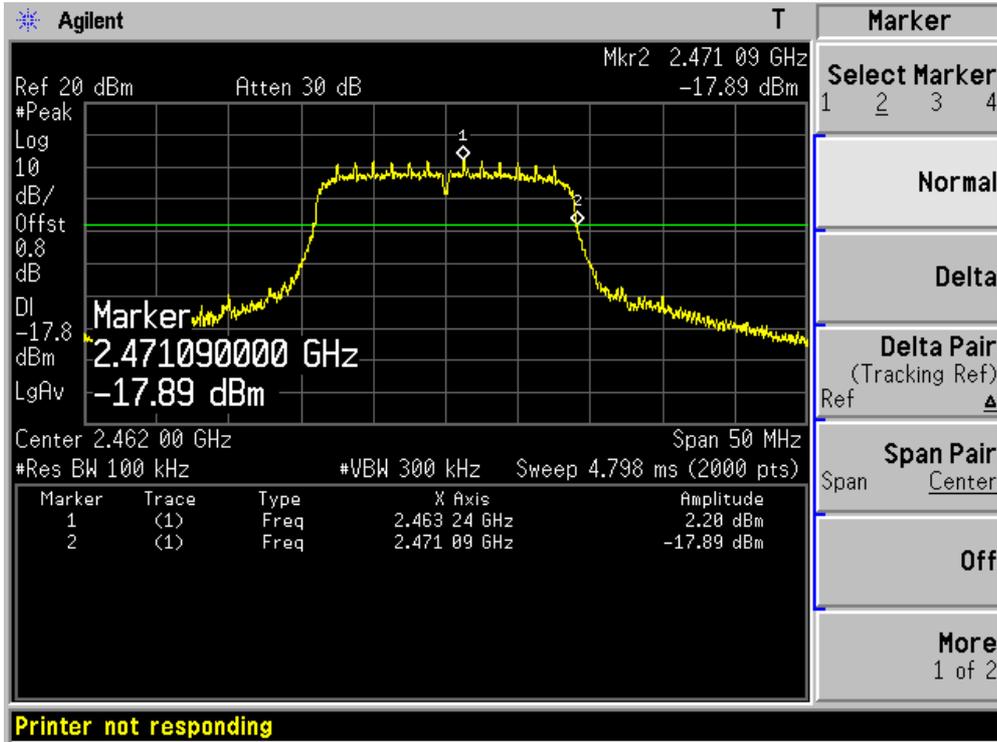


Product	:	Eee PC
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz Bandwidth)

### Channel 01 (2412MHz)

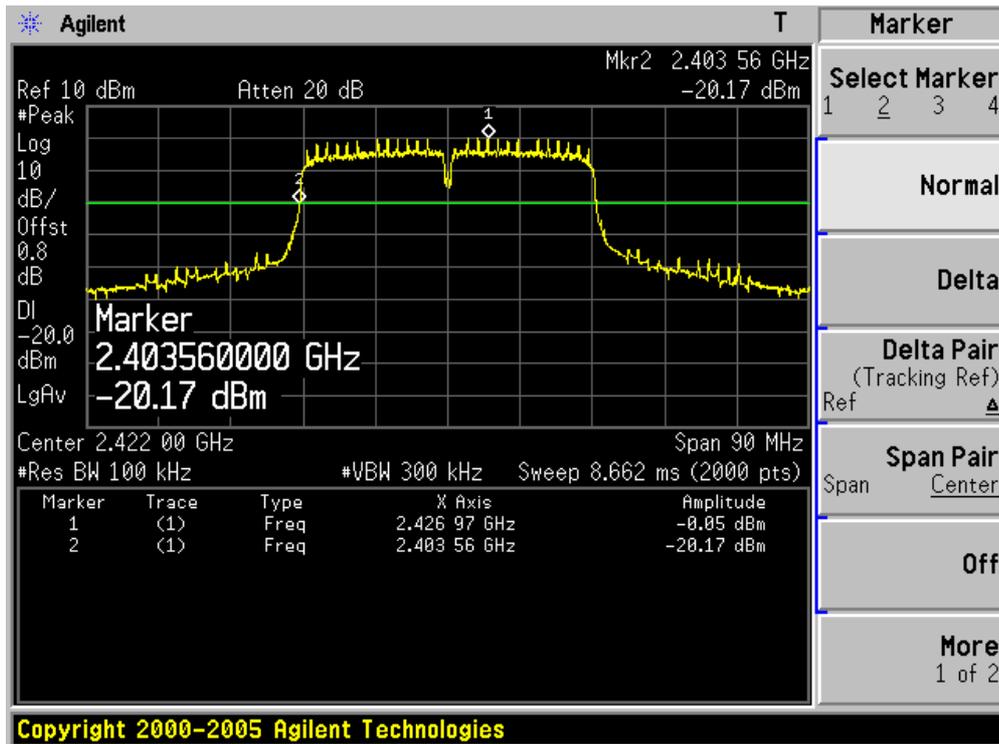


Channel 11 (2462MHz)

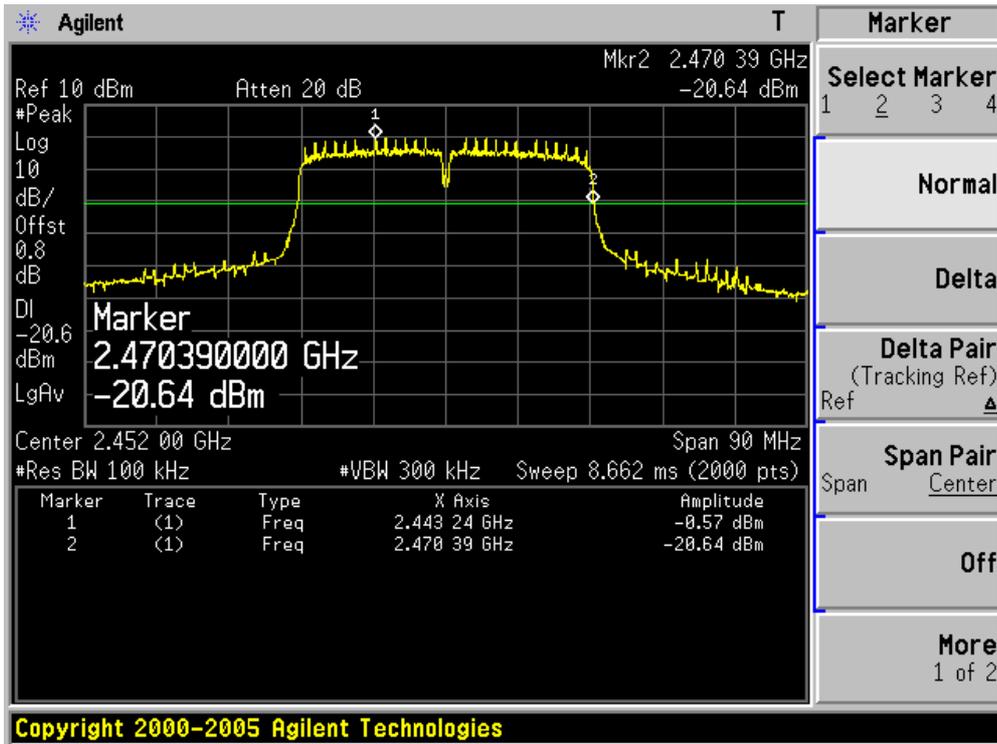


Product	:	Eee PC
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz Bandwidth)

### Channel 01 (2422MHz)



Channel 11 (2452MHz)



## 8. Occupied Bandwidth

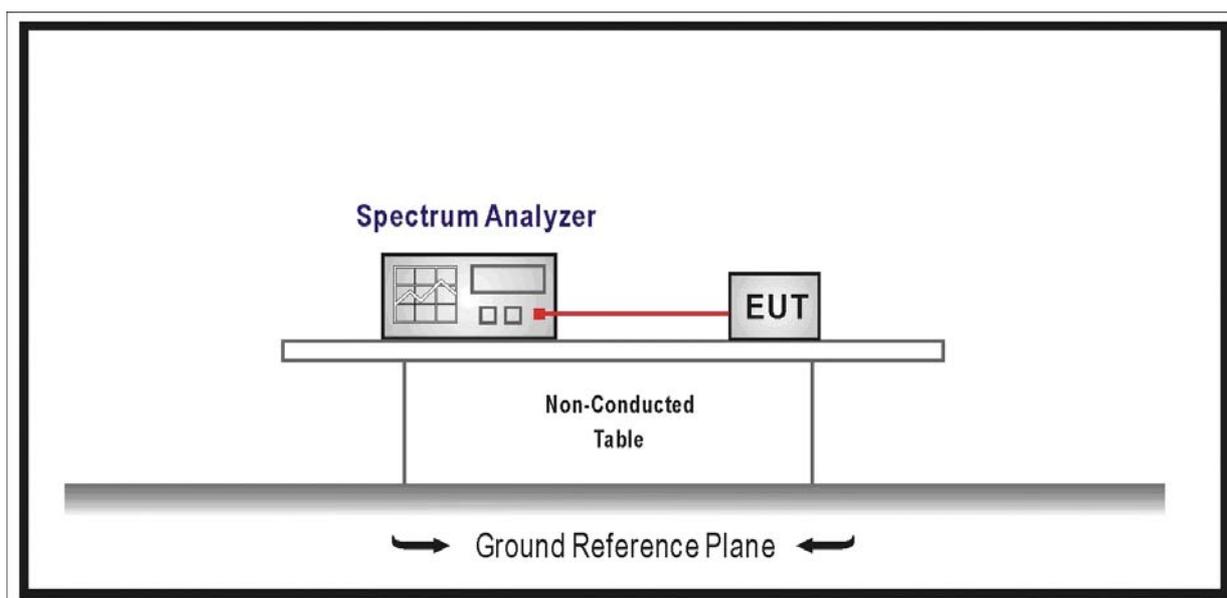
### 8.1. Test Equipment

Occupied Bandwidth / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2008/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2008/11/24
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2009/03/01

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 8.2. Test Setup



### 8.3. Limit

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

### 8.4. Test Procedure

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Span greater than RBW.

**8.5. Uncertainty**

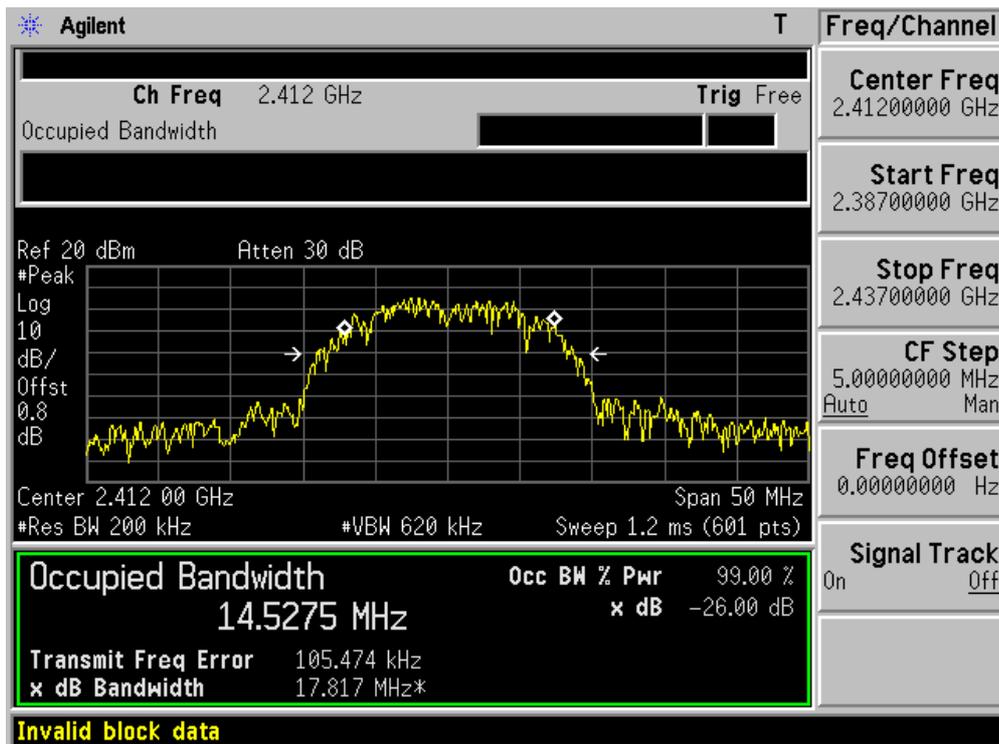
The measurement uncertainty is defined as  $\pm 1$  kHz

8.6. Test Result

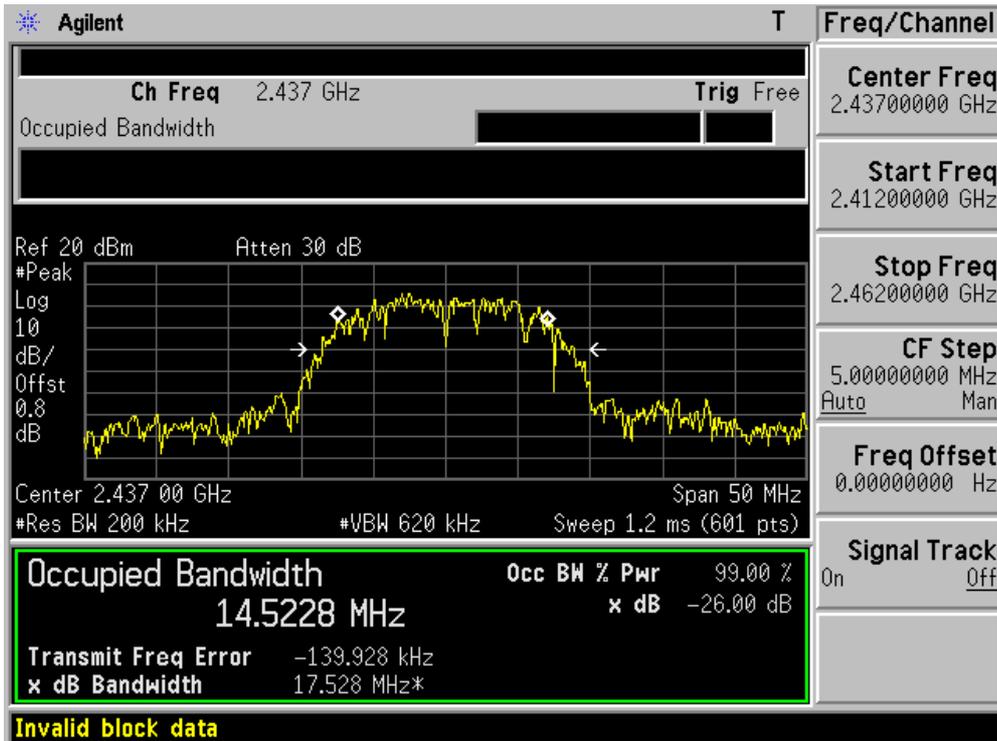
Product	:	Eee PC
Test Item	:	99% Occupied Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	99% Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	145275	N/A	Pass
06	2437	145228	N/A	Pass
11	2462	148754	N/A	Pass

Channel 01 (2412MHz)



Channel 06 (2437MHz)



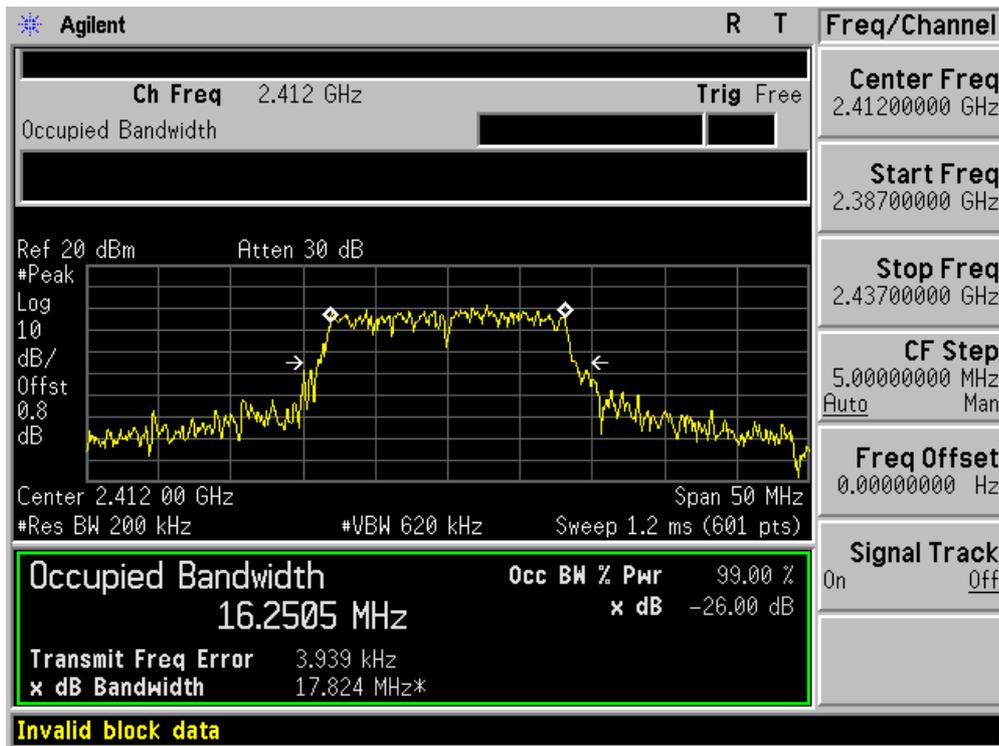
Channel 11 (2462MHz)



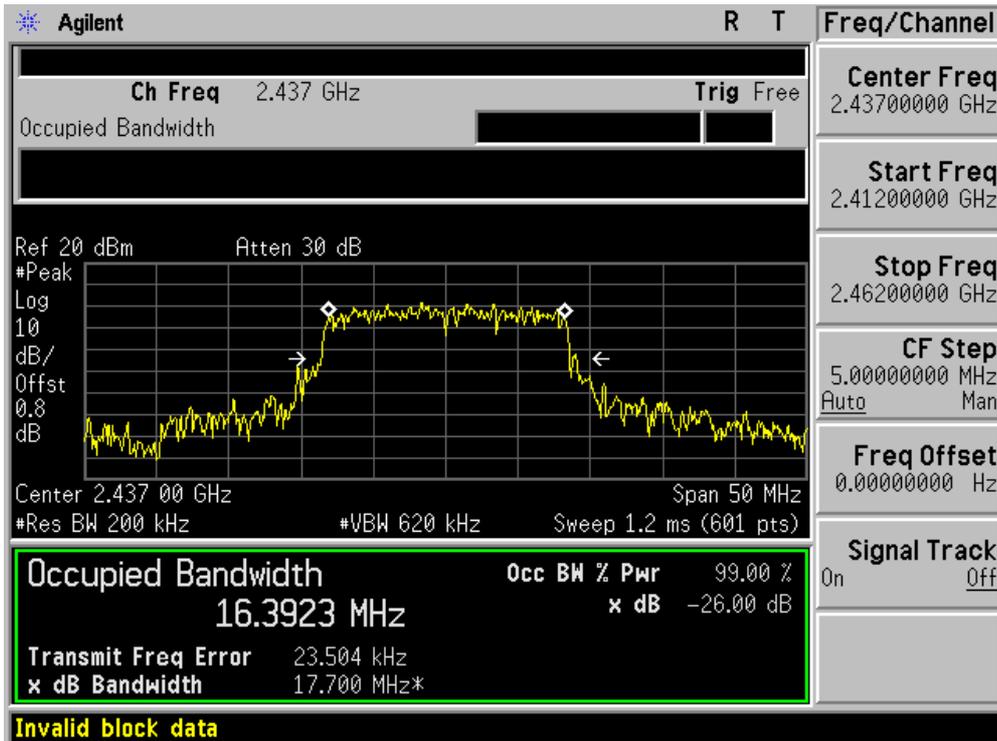
Product	:	Eee PC
Test Item	:	99% Occupied Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	99% Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	162505	N/A	Pass
06	2437	163923	N/A	Pass
11	2462	162600	N/A	Pass

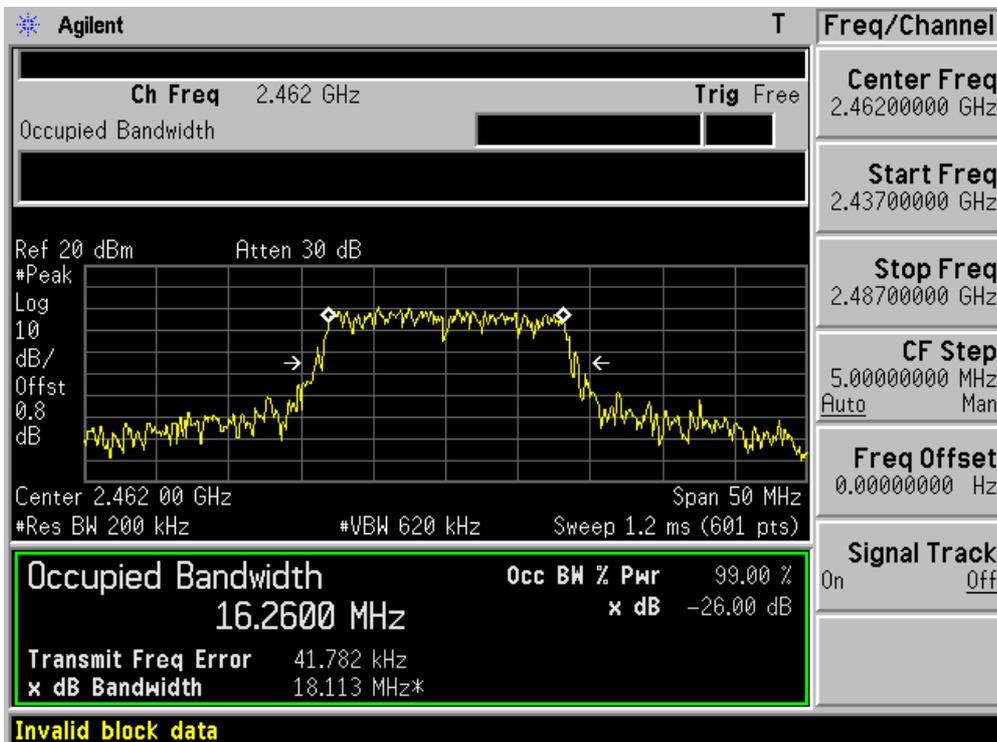
### Channel 01 (2412MHz)



Channel 06 (2437MHz)



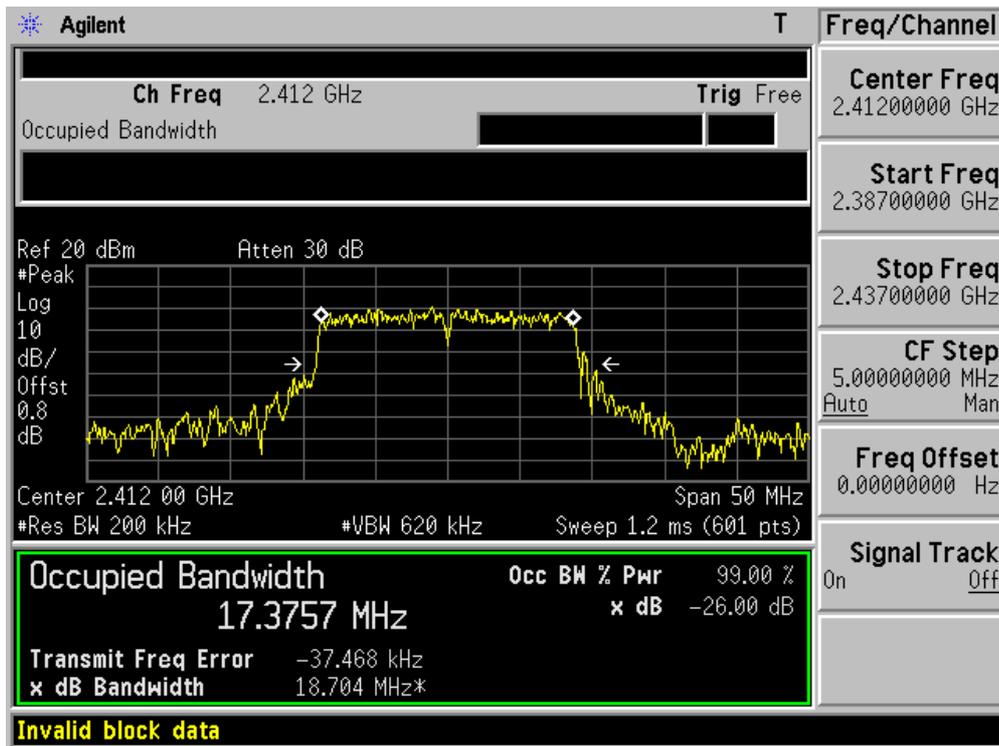
Channel 11 (2462MHz)



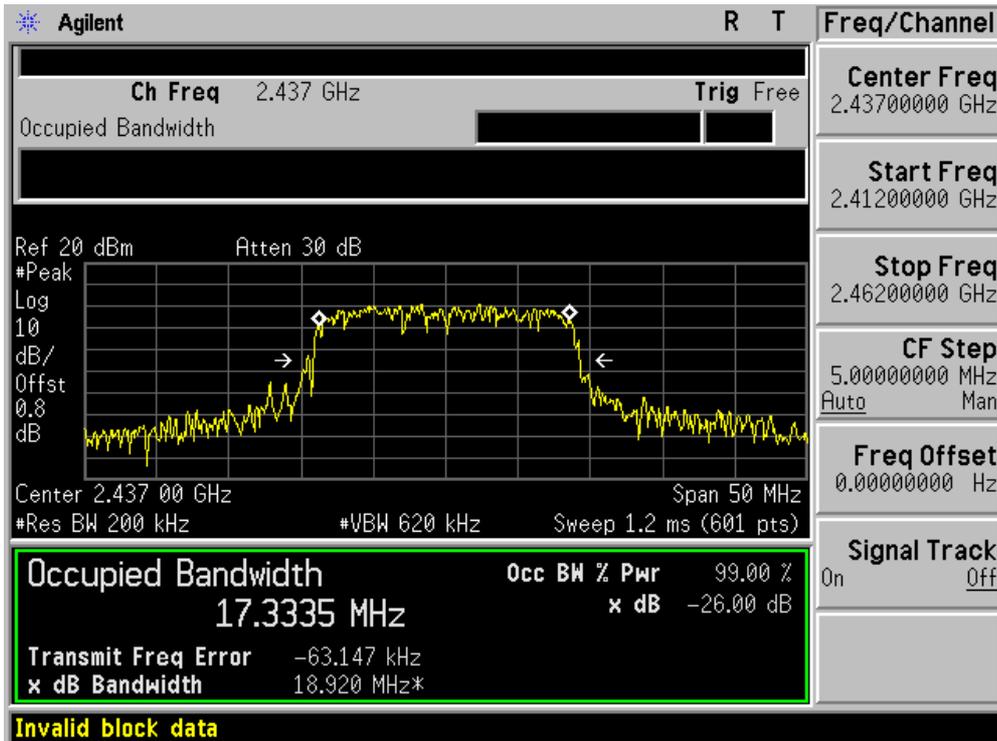
Product	:	Eee PC
Test Item	:	99% Occupied Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz Bandwidth)

Channel No.	Frequency (MHz)	99% Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	173757	N/A	Pass
06	2437	173335	N/A	Pass
11	2462	173350	N/A	Pass

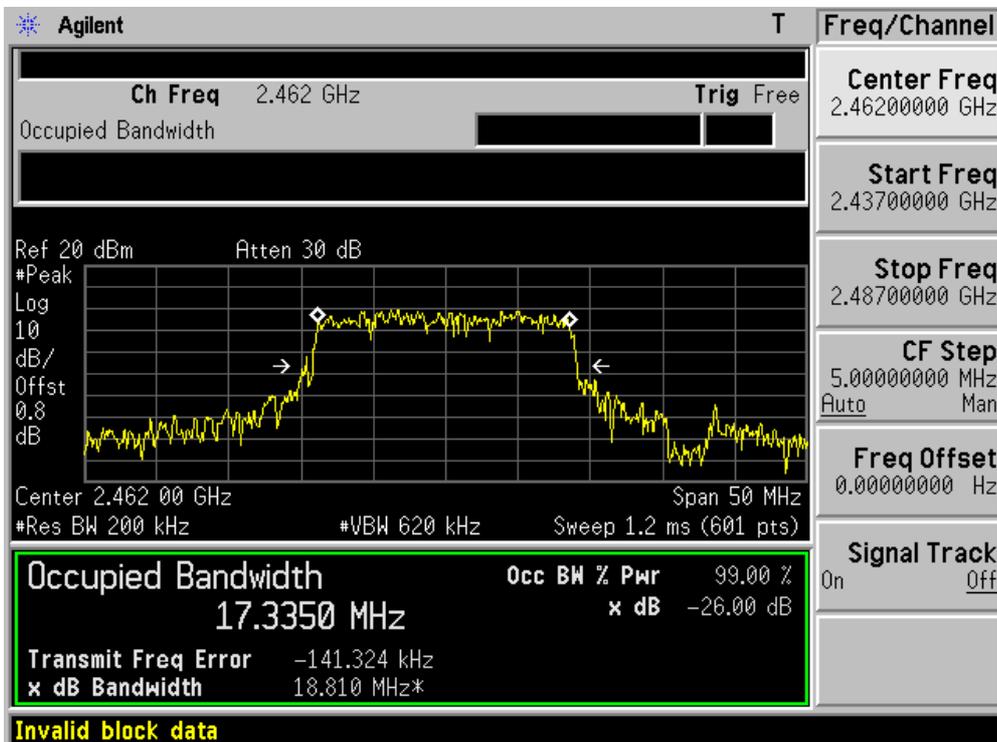
Channel 01 (2412MHz)



Channel 06 (2437MHz)



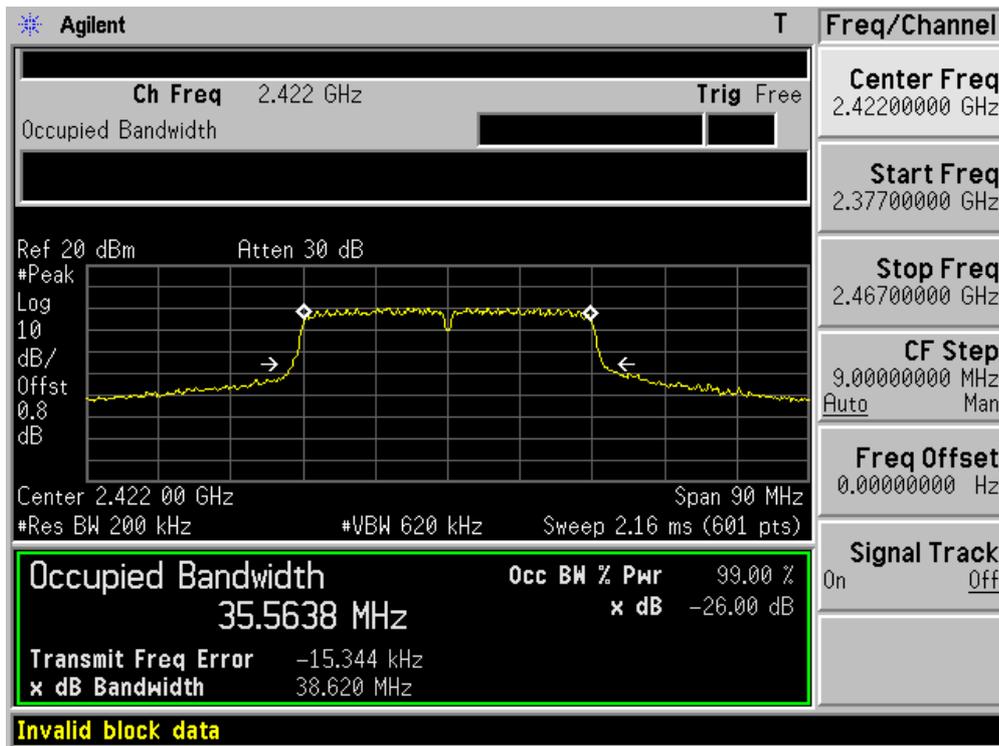
Channel 11 (2462MHz)



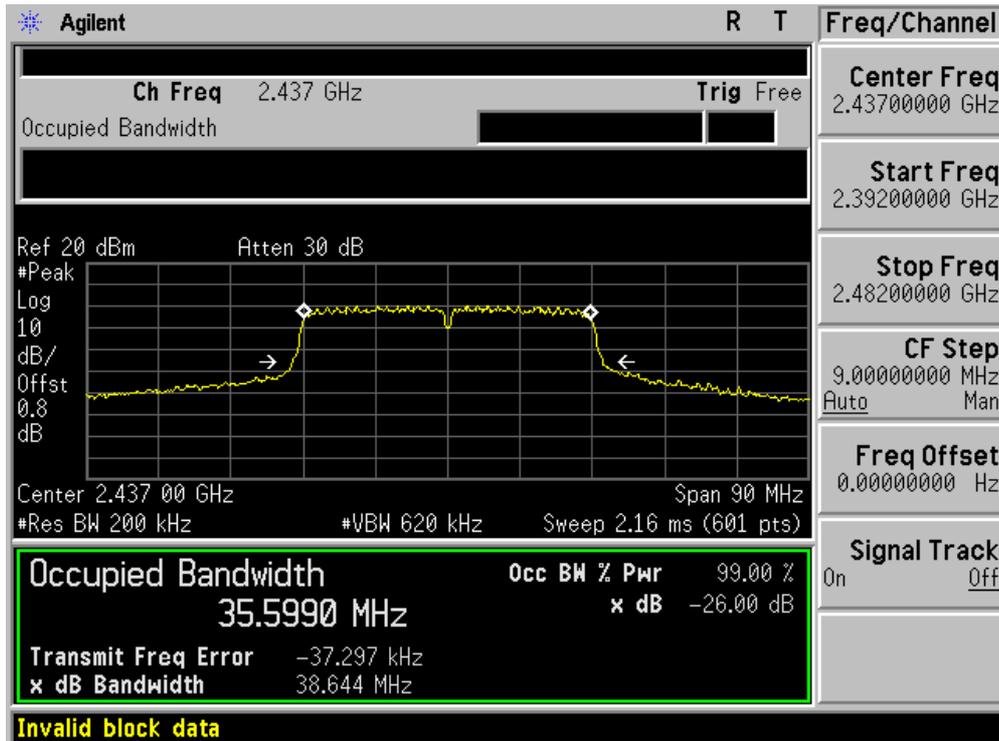
Product	:	Eee PC
Test Item	:	99% Occupied Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz Bandwidth)

Channel No.	Frequency (MHz)	99% Occupied Bandwidth (kHz)	Limit (kHz)	Result
03	2422	355638	N/A	Pass
06	2437	355990	N/A	Pass
09	2452	355956	N/A	Pass

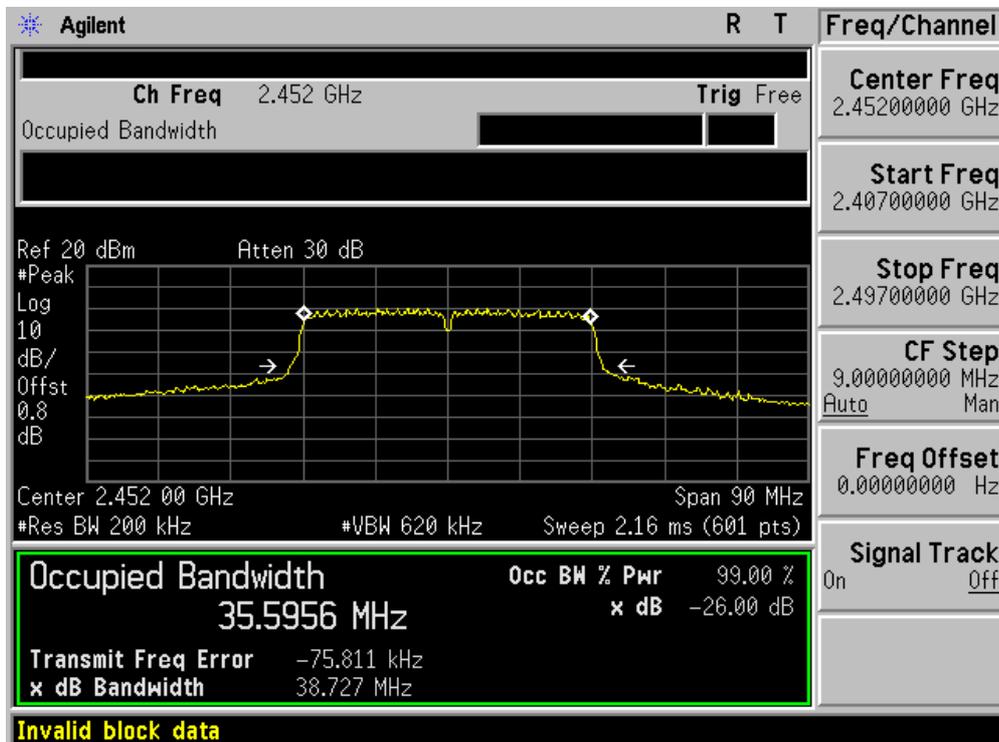
Channel 03 (2422MHz)



Channel 06 (2437MHz)



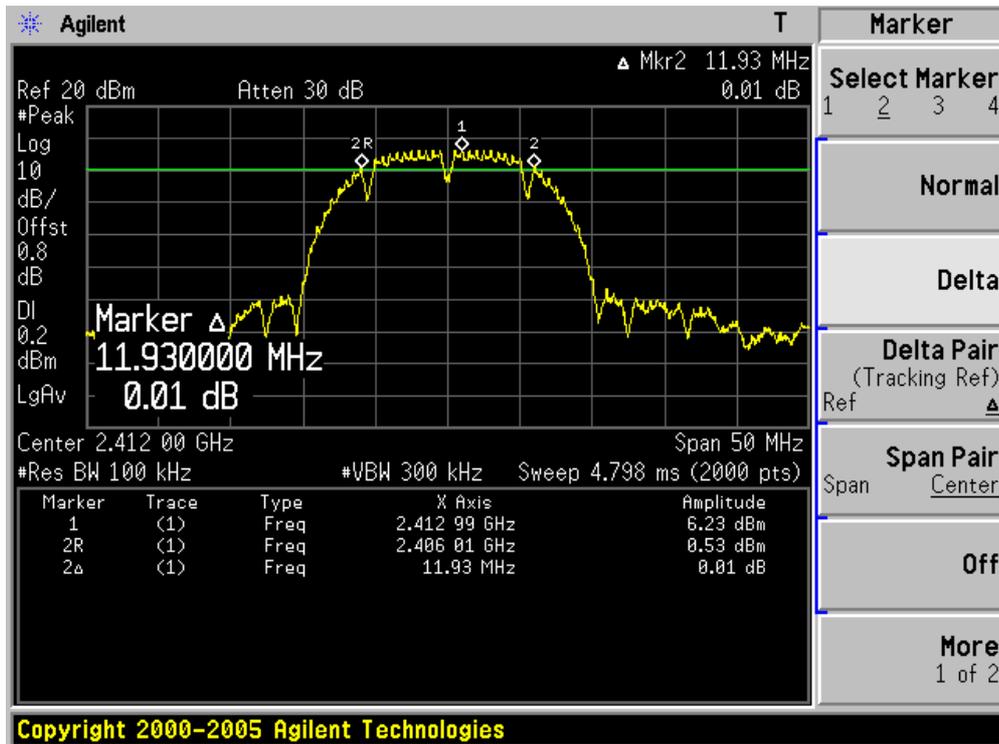
Channel 09 (2452MHz)



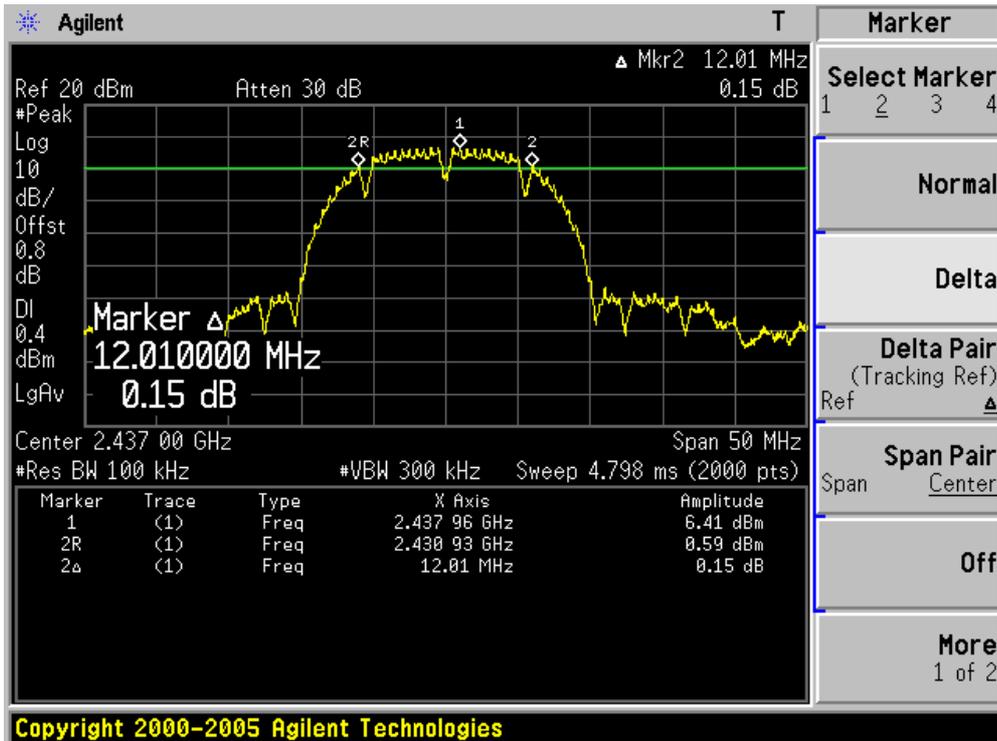
Product	:	Eee PC
Test Item	:	6dB Occupied Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	11930.0	500	Pass
06	2437	12010.0	500	Pass
11	2462	11910.0	500	Pass

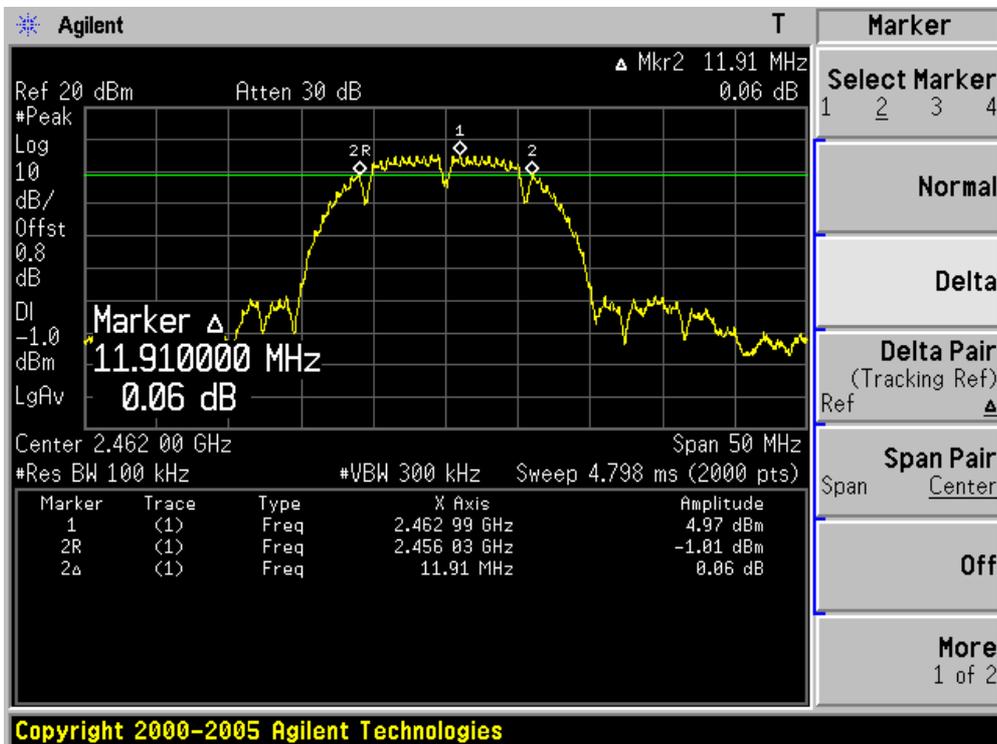
### Channel 01 (2412MHz)



Channel 06 (2437MHz)



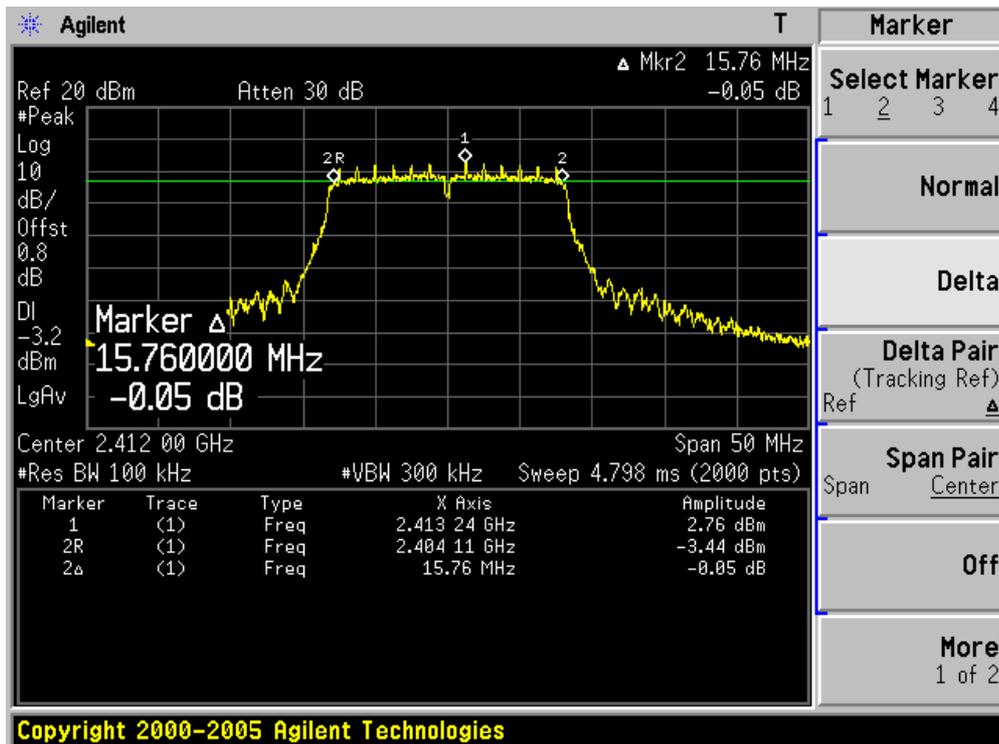
Channel 11 (2462MHz)



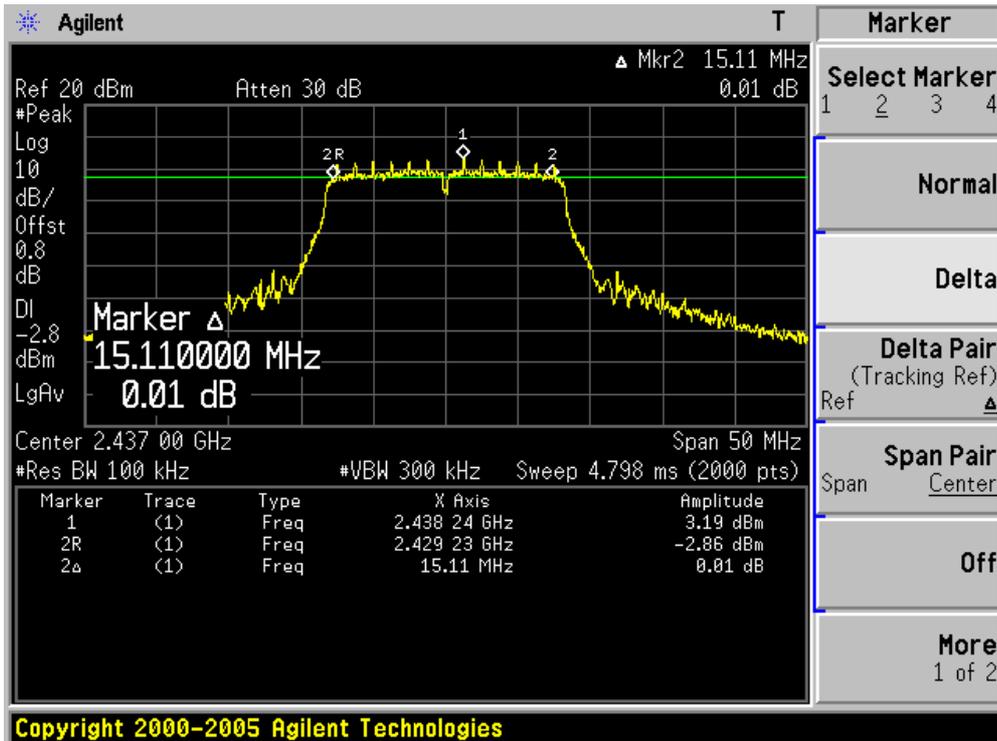
Product	:	Eee PC
Test Item	:	6dB Occupied Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	15760.0	500	Pass
06	2437	15110.0	500	Pass
11	2462	15510.0	500	Pass

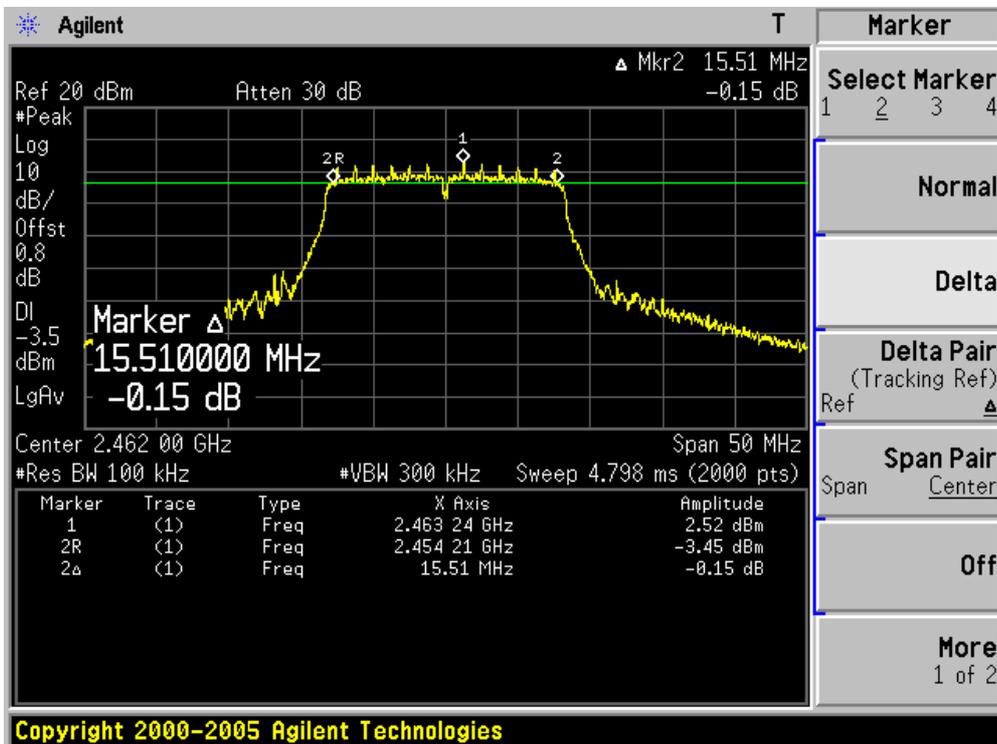
### Channel 01 (2412MHz)



Channel 06 (2437MHz)



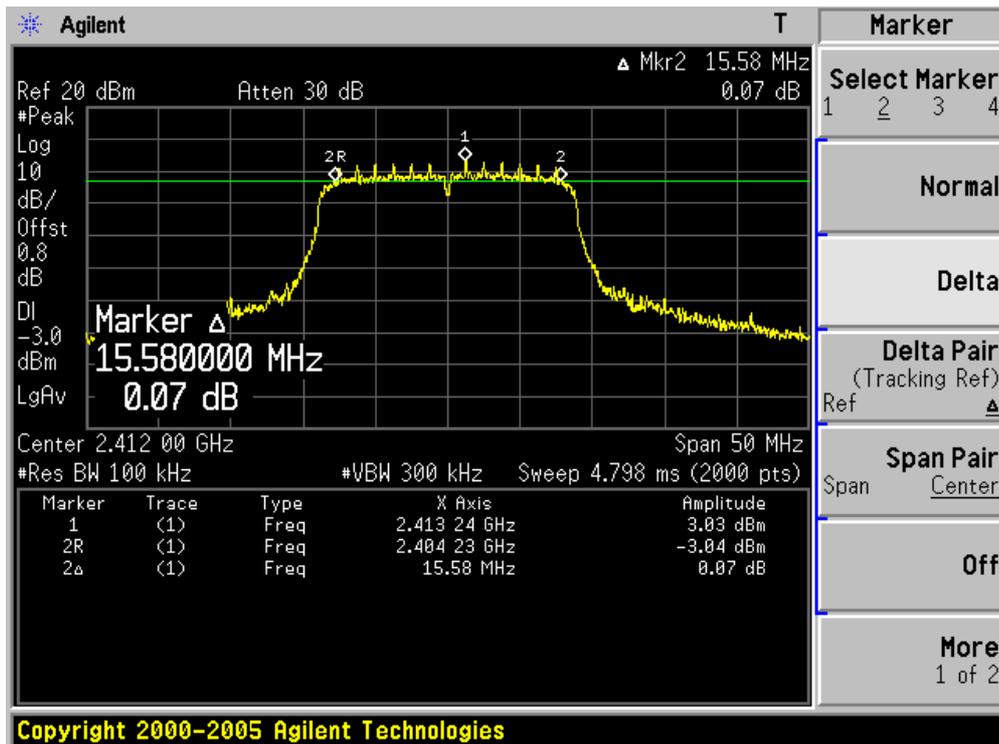
Channel 11 (2462MHz)



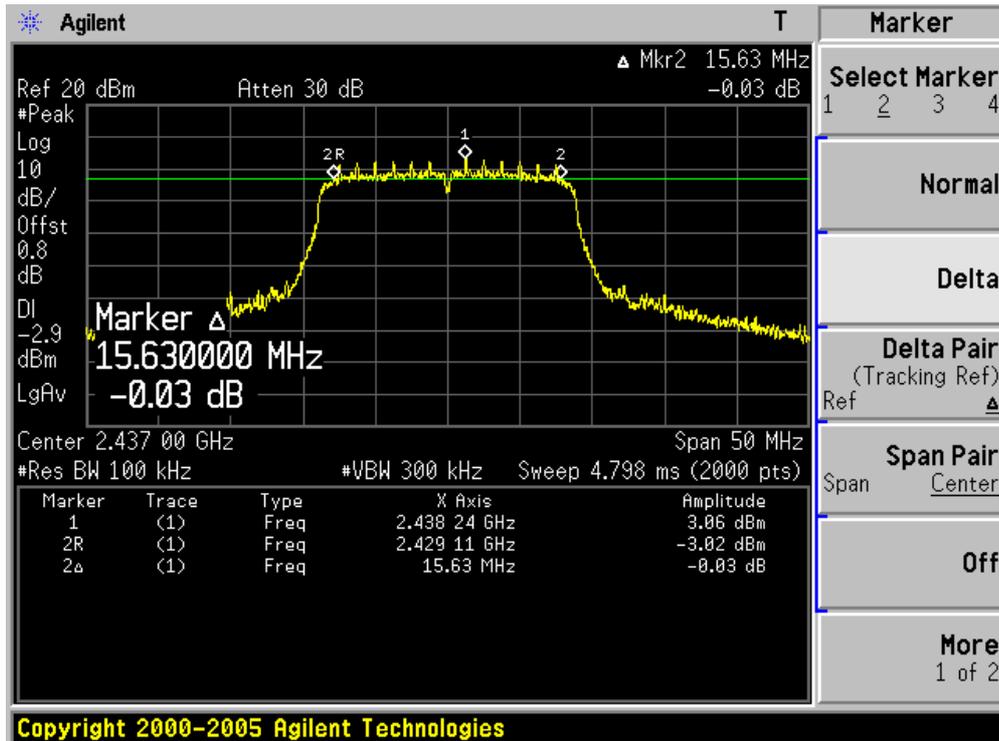
Product	:	Eee PC
Test Item	:	6dB Occupied Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz Bandwidth)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	15580.0	500	Pass
06	2437	15630.0	500	Pass
11	2462	15360.0	500	Pass

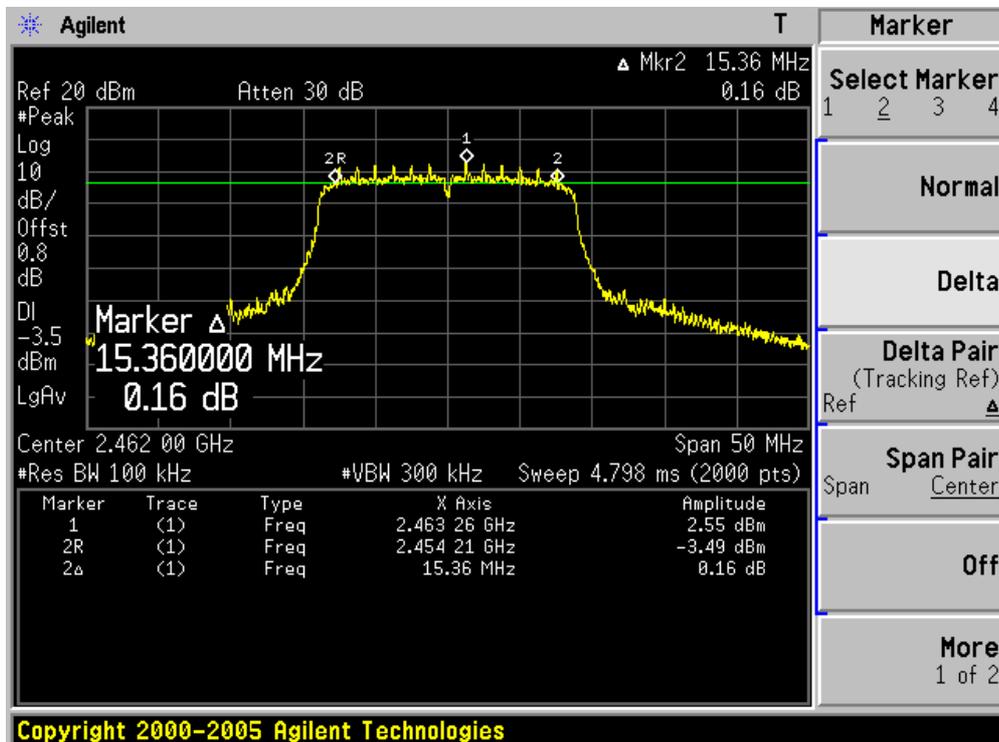
### Channel 01 (2412MHz)



Channel 06 (2437MHz)



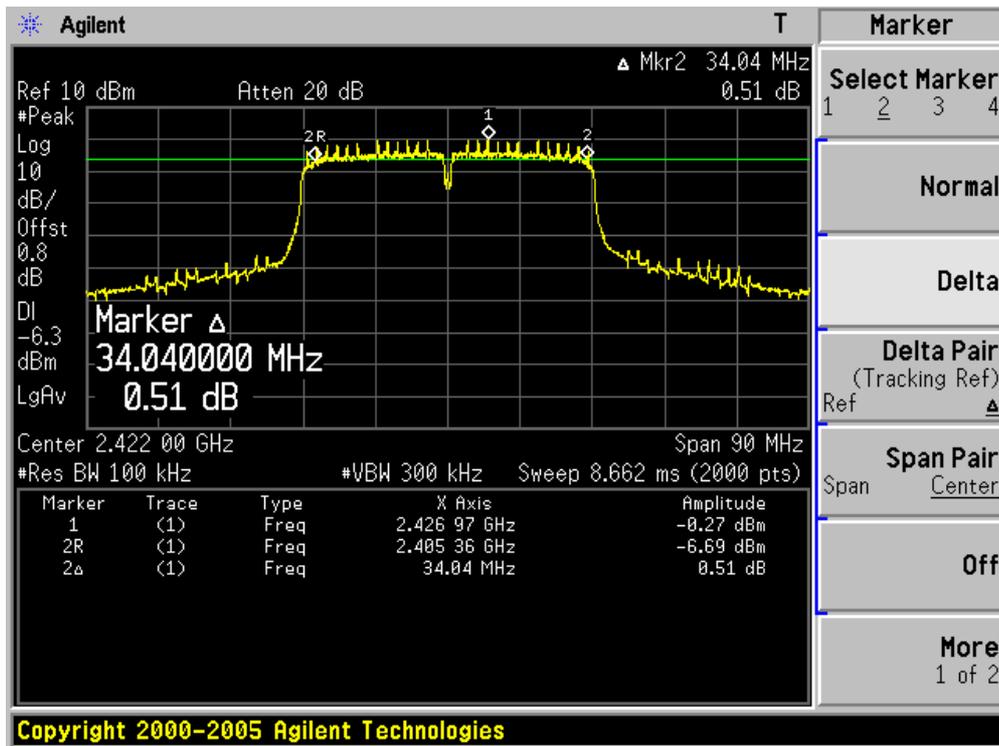
Channel 11 (2462MHz)



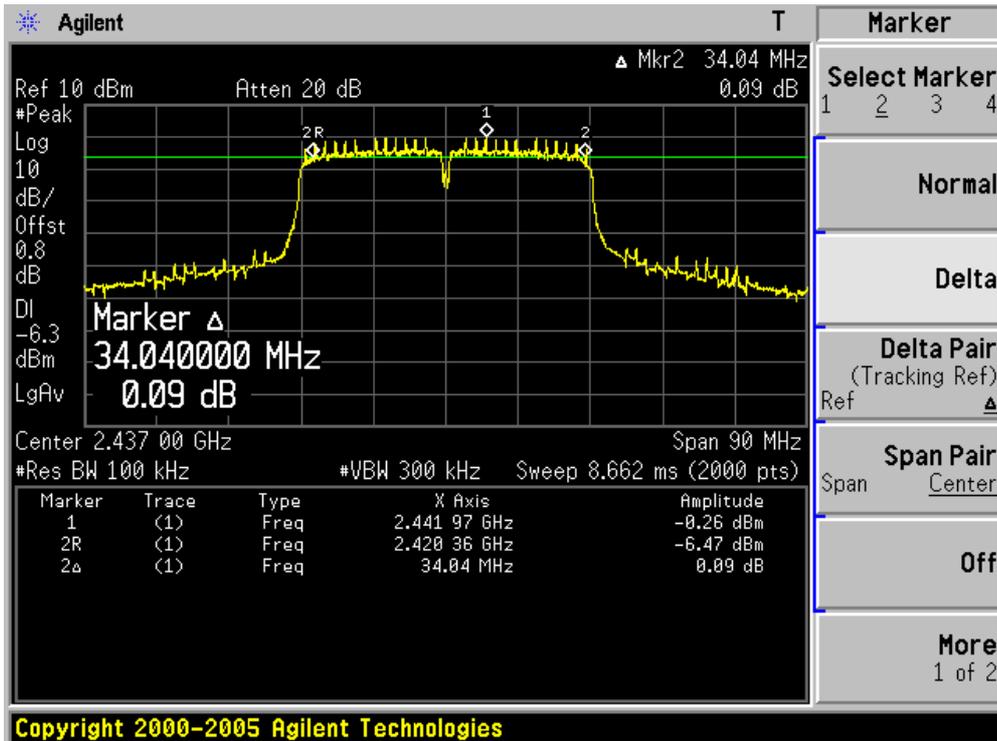
Product	:	Eee PC
Test Item	:	6dB Occupied Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz Bandwidth)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
03	2422	34040.0	500	Pass
06	2437	34040.0	500	Pass
09	2452	34800.0	500	Pass

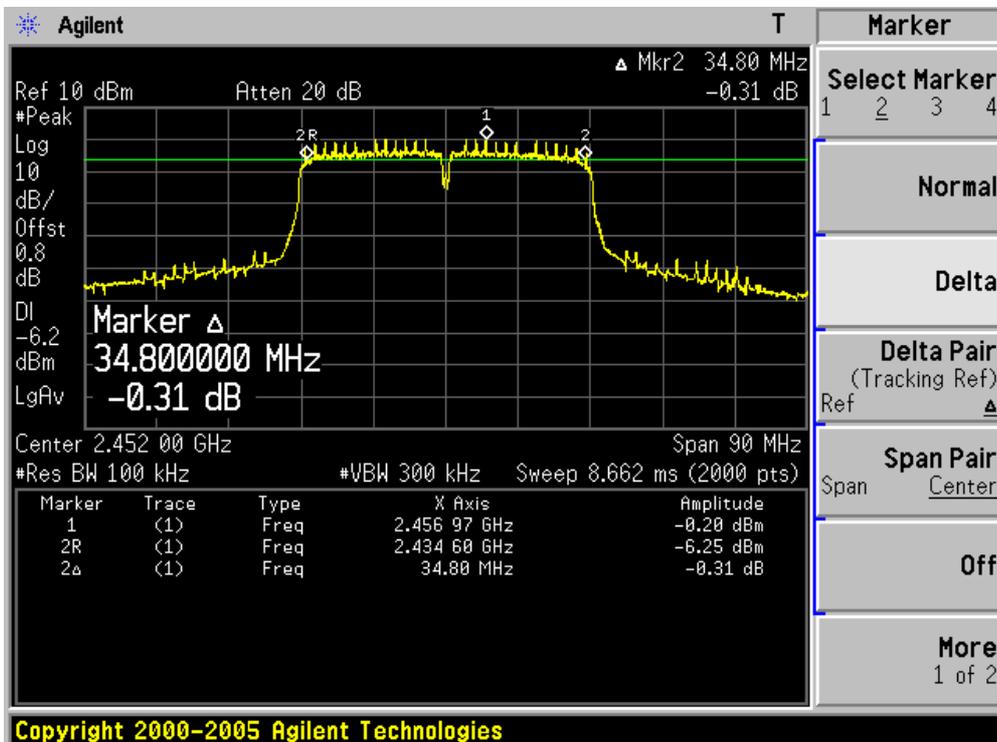
### Channel 01 (2422MHz)



Channel 06 (2437MHz)



Channel 11 (2452MHz)



## 9. Power Output

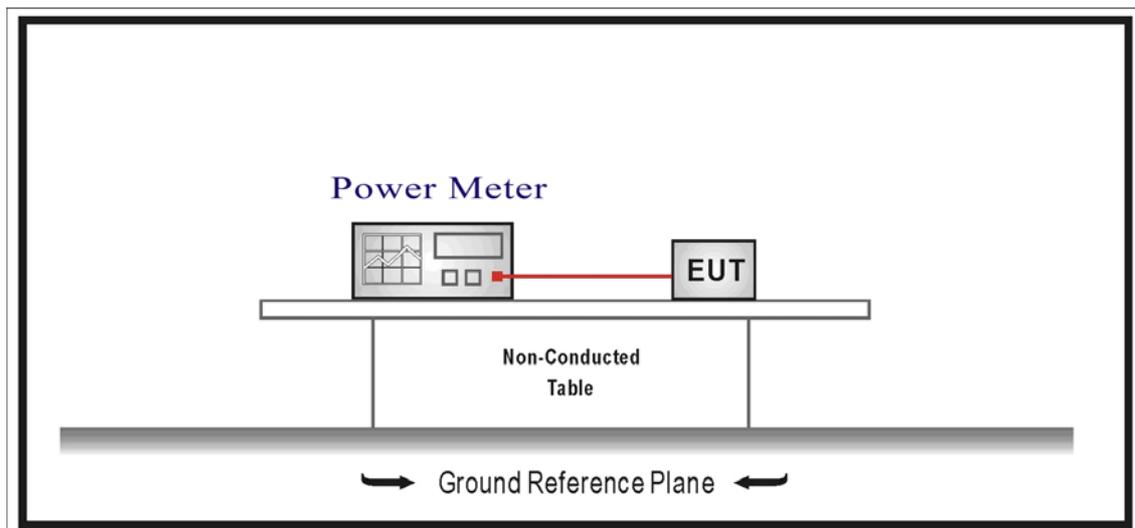
### 9.1. Test Equipment

Power Output / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Wideband Peak Power Meter	Anritsu	ML2495A	0905006	2009/02/12
Power Sensor	Anritsu	MA2411B	0846014	2009/01/12
Coaxial Cable	Huber+Suhner	AC4-RF	09	2008/11/24
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2009/03/01

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 9.2. Test Setup



### 9.3. Limit

The maximum peak power shall be less 1 Watt (30dBm).

Note: the conducted output power limit specified above is based on the use the antennas with directional gains that do not exceed 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values above, as appropriate, by the amount in dB that the directional gain of antenna exceeds 6 dBi.

#### **9.4. Test Procedure**

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Power output measurement allowed per Section 15.247(b)(3).

Use the wideband power meter to test peak power and record the result.

#### **9.5. Uncertainty**

The measurement uncertainty is defined as  $\pm 1.27$  dB

**9.6. Test Result**

Product	:	Eee PC
Test Item	:	Power Output
Test Site	:	AC-6
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Cable Loss (dBm)	Total Power (dBm)	Limit (dBm)	Result
1	2412	17.40	0.8	18.20	30.00	Pass
6	2437	17.85	0.8	18.65	30.00	Pass
11	2462	17.06	0.8	17.86	30.00	Pass

Note: The antenna gain of transmitter is less than 6dBi and other than fixed, point-to-point operation, therefore the limit is 30dBm.

Product	:	Eee PC
Test Item	:	Power Output
Test Site	:	AC-6
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Cable Loss (dBm)	Total Power (dBm)	Limit (dBm)	Result
1	2412	21.54	0.8	22.34	30.00	Pass
6	2437	21.86	0.8	22.66	30.00	Pass
11	2462	21.30	0.8	22.10	30.00	Pass

Note: The antenna gain of transmitter is less than 6dBi and other than fixed, point-to-point operation, therefore the limit is 30dBm.

Product	:	Eee PC
Test Item	:	Power Output
Test Site	:	AC-6
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz Bandwidth)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Cable Loss (dBm)	Total Power (dBm)	Limit (dBm)	Result
1	2412	21.20	0.8	22.00	30.00	Pass
6	2437	21.70	0.8	22.50	30.00	Pass
11	2462	21.22	0.8	22.02	30.00	Pass

Note: The antenna gain of transmitter is less than 6dBi and other than fixed, point-to-point operation, therefore the limit is 30dBm.

Product	:	Eee PC
Test Item	:	Power Output
Test Site	:	AC-6
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz Bandwidth)

Channel No.	Frequency (MHz)	Measurement Power Output (dBm)	Cable Loss (dBm)	Total Power (dBm)	Limit (dBm)	Result
3	2422	22.04	0.8	22.84	30.00	Pass
6	2437	22.03	0.8	22.83	30.00	Pass
9	2452	21.94	0.8	22.74	30.00	Pass

Note: The antenna gain of transmitter is less than 6dBi and other than fixed, point-to-point operation, therefore the limit is 30dBm.

## 10. Power Spectral Density

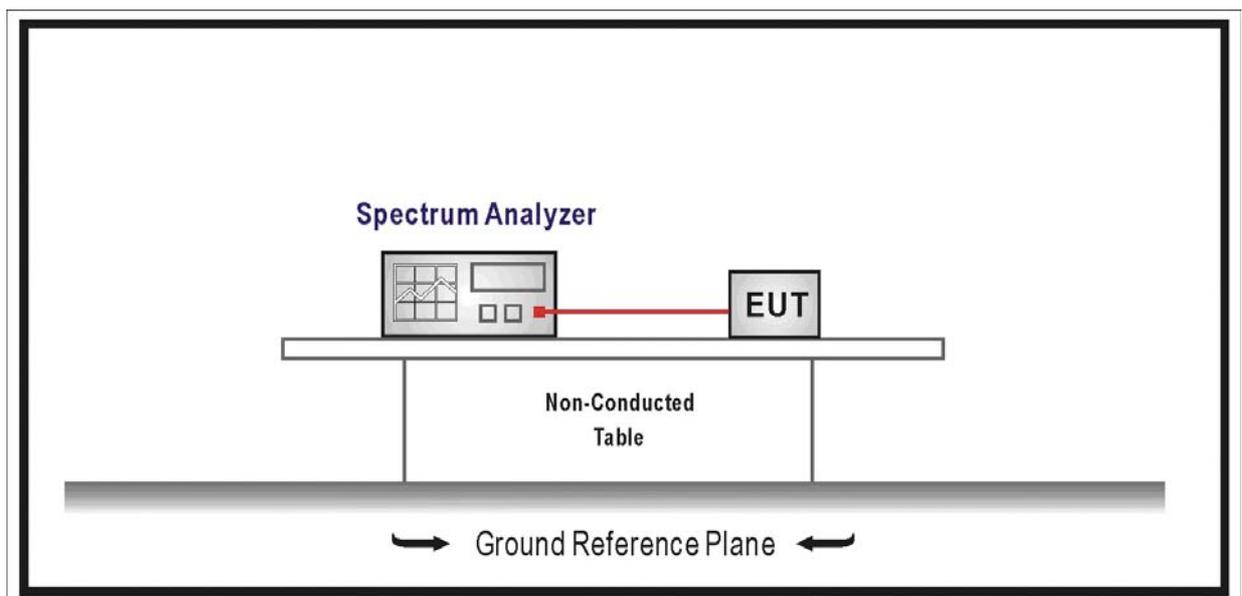
### 10.1. Test Equipment

Power Spectral Density / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2008/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2008/11/24
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2009/03/01

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

### 10.2. Test Setup



### 10.3. Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiated to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

### 10.4. Test Procedure

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements, and choose option 2 test method for this item.

Set RBW= 3 kHz, Set VBW  $\geq$  9 kHz, Sweep time=Auto, Set detector=Peak detector.

### **10.5. Uncertainty**

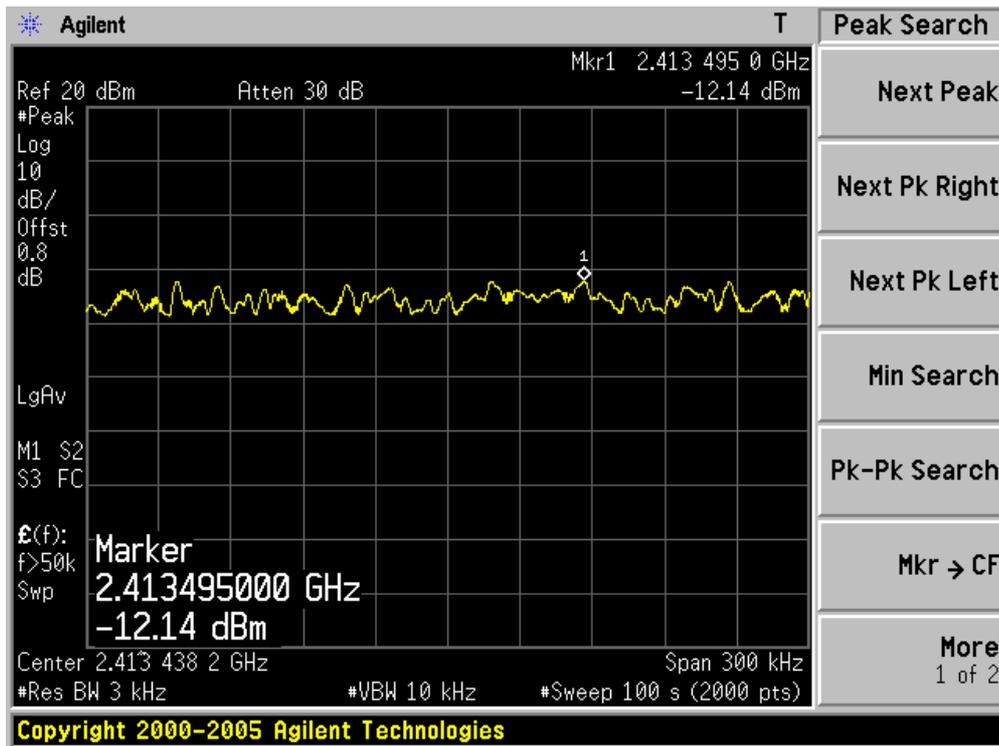
The measurement uncertainty is defined as  $\pm 1.27$  dB

10.6. Test Result

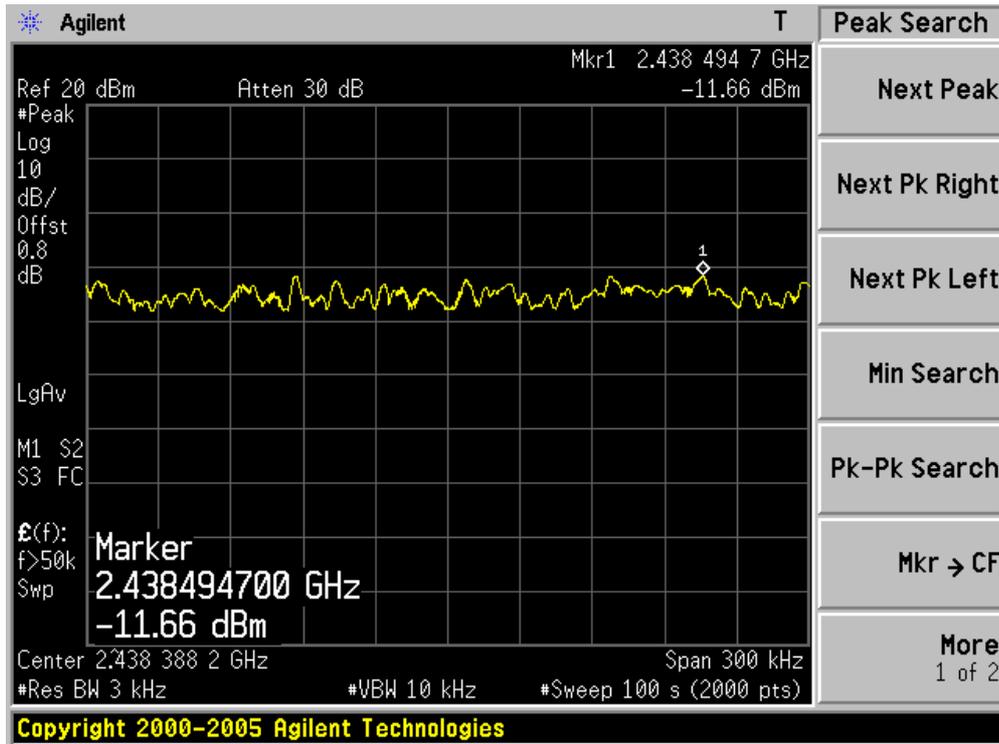
Product	:	Eee PC
Test Item	:	Power Spectral Density
Test Site	:	AC-6
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-12.14	8	Pass
06	2437	-11.66	8	Pass
11	2462	-10.39	8	Pass

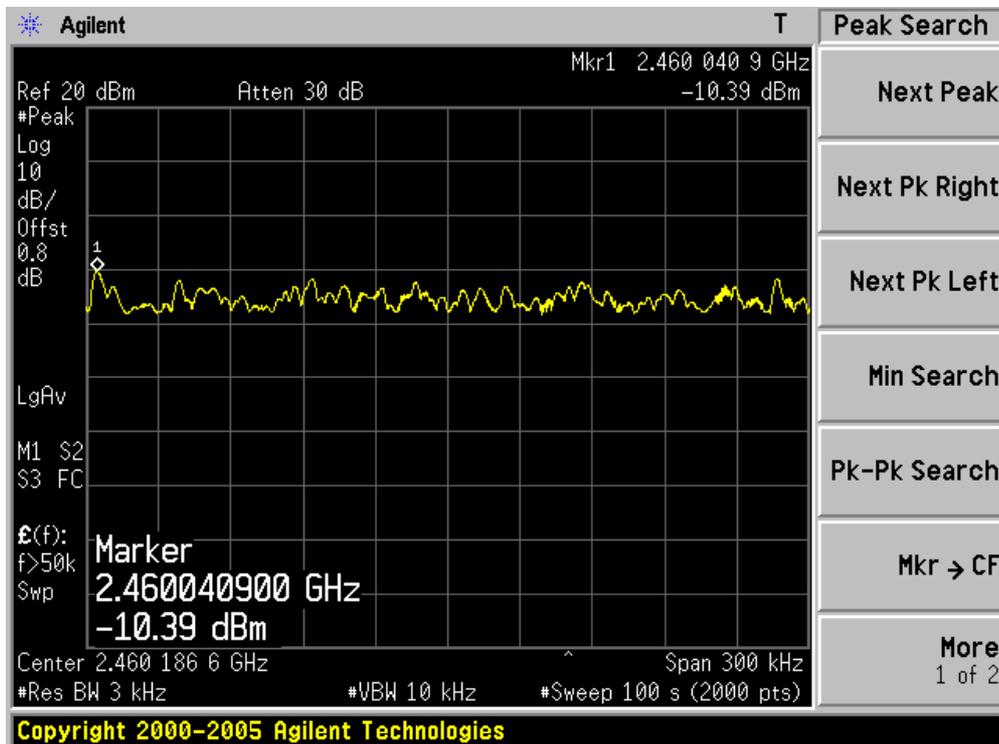
Channel 01 (2412MHz)



Channel 06 (2437MHz)



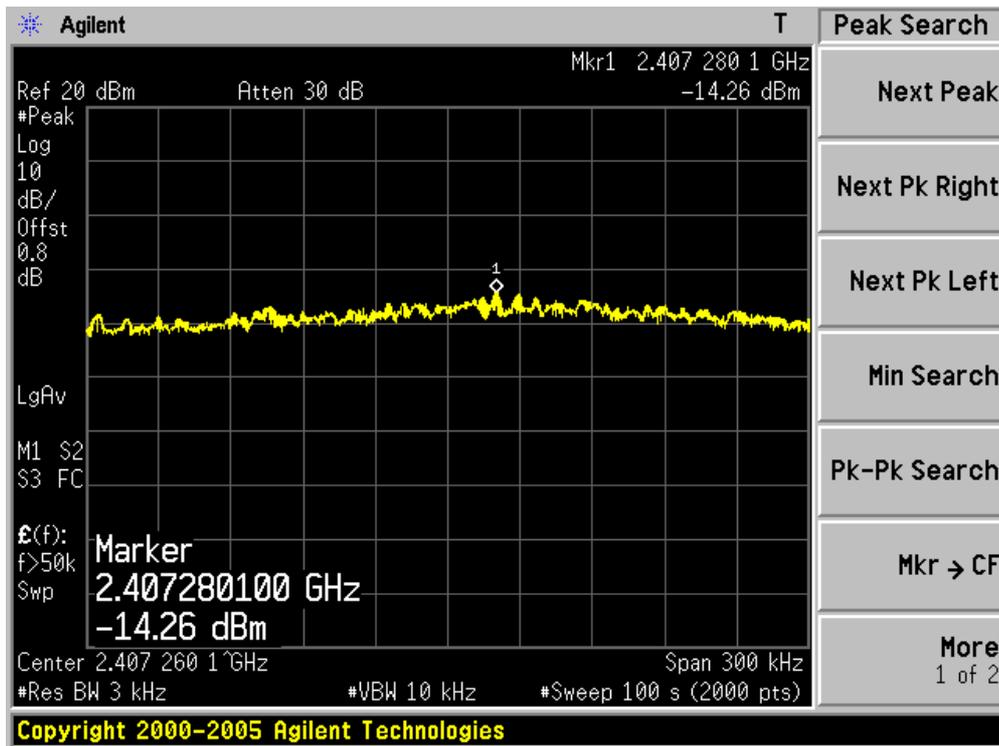
Channel 11 (2462MHz)



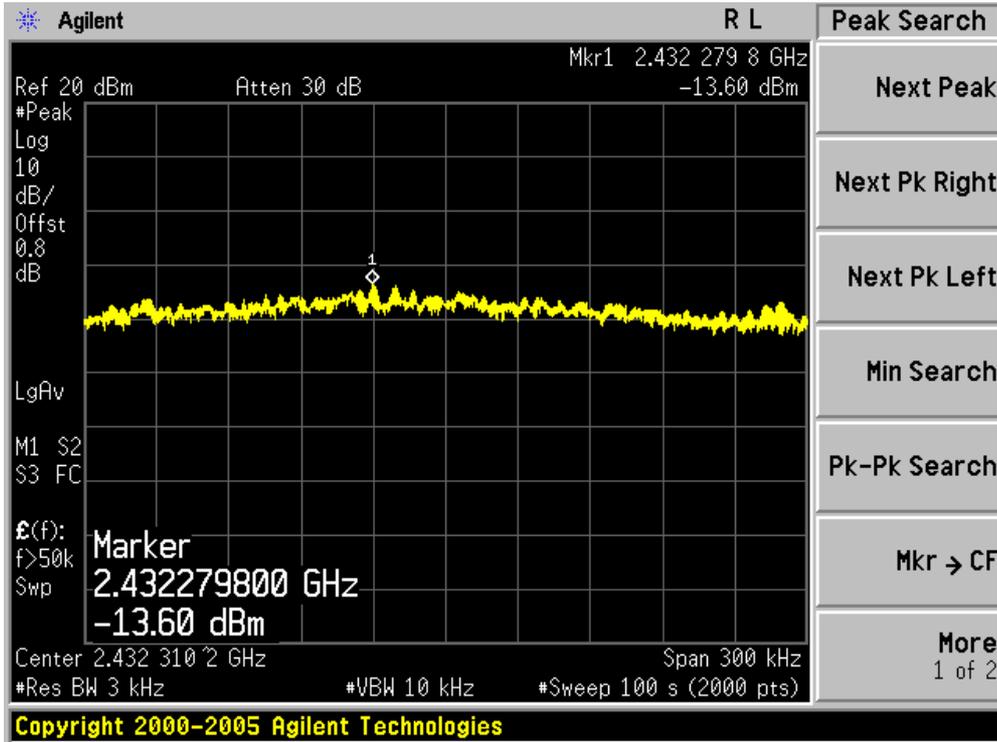
Product	:	Eee PC
Test Item	:	Power Spectral Density
Test Site	:	AC-6
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-14.26	8	Pass
06	2437	-13.60	8	Pass
11	2462	-14.28	8	Pass

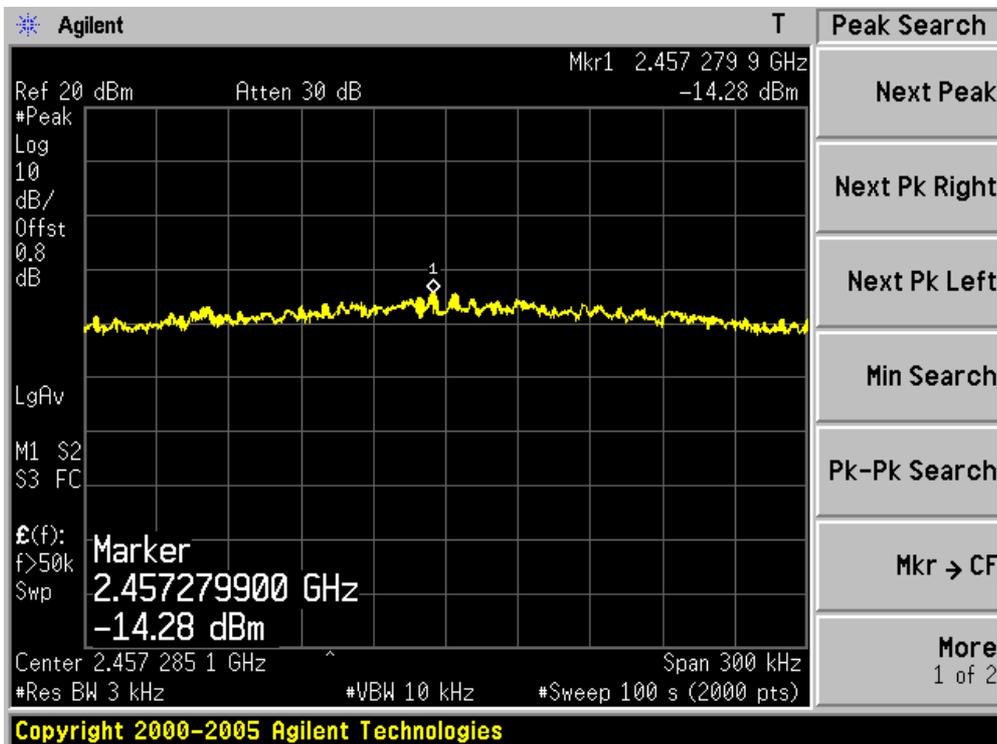
### Channel 01 (2412MHz)



Channel 06 (2437MHz)



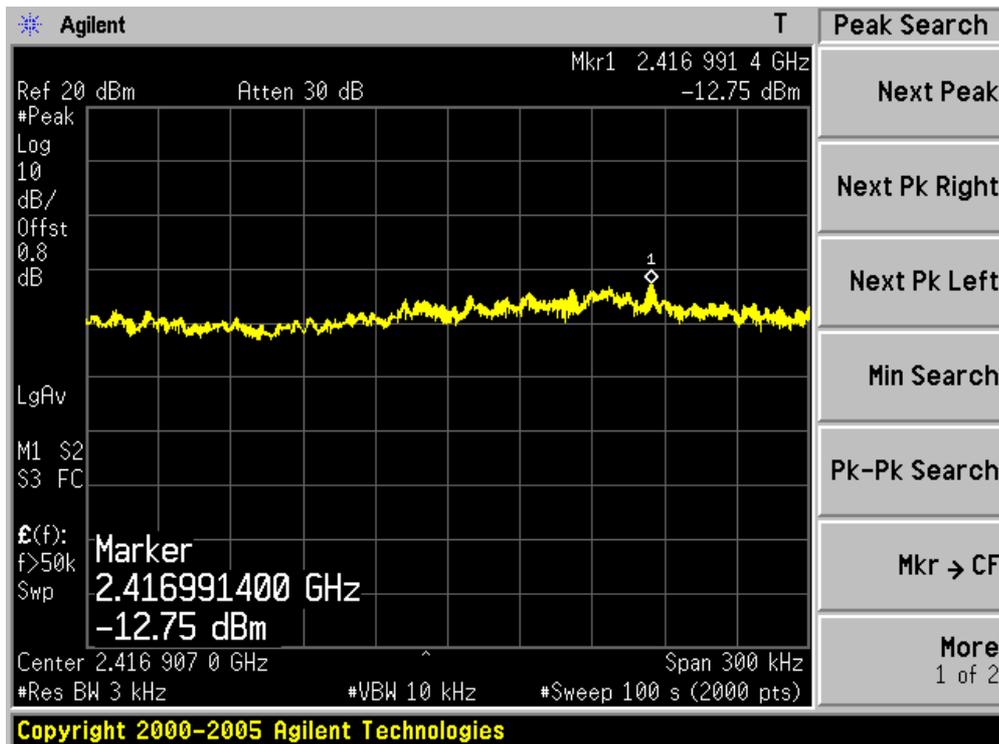
Channel 11 (2462MHz)



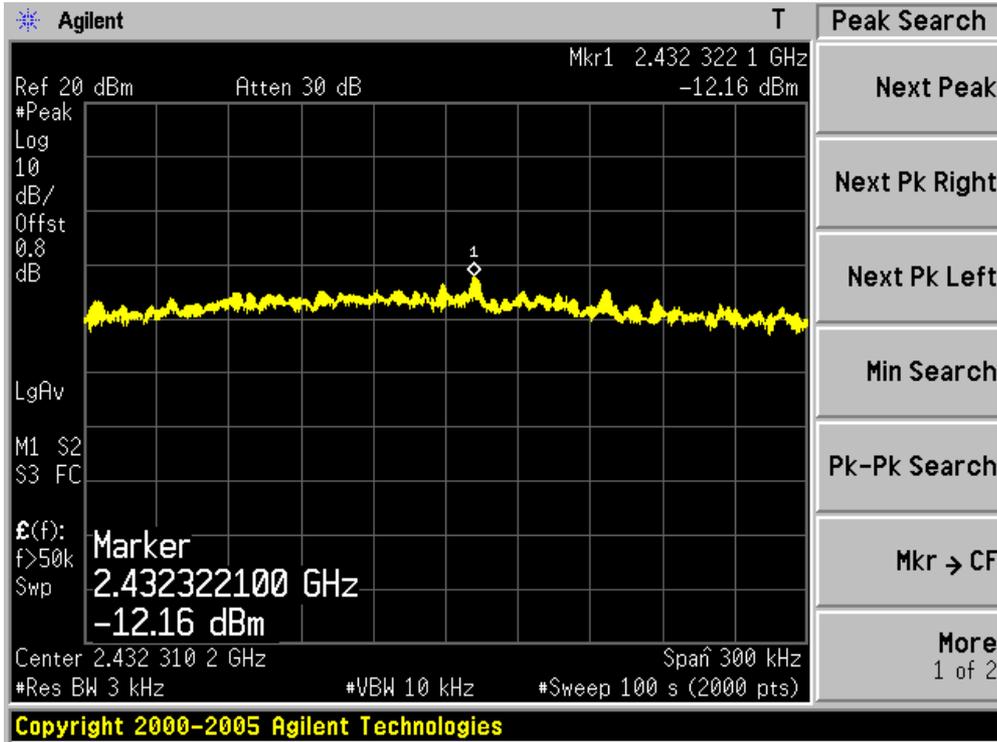
Product	:	Eee PC
Test Item	:	Power Spectral Density
Test Site	:	AC-6
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz Bandwidth)

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-12.75	8	Pass
06	2437	-12.16	8	Pass
11	2462	-12.91	8	Pass

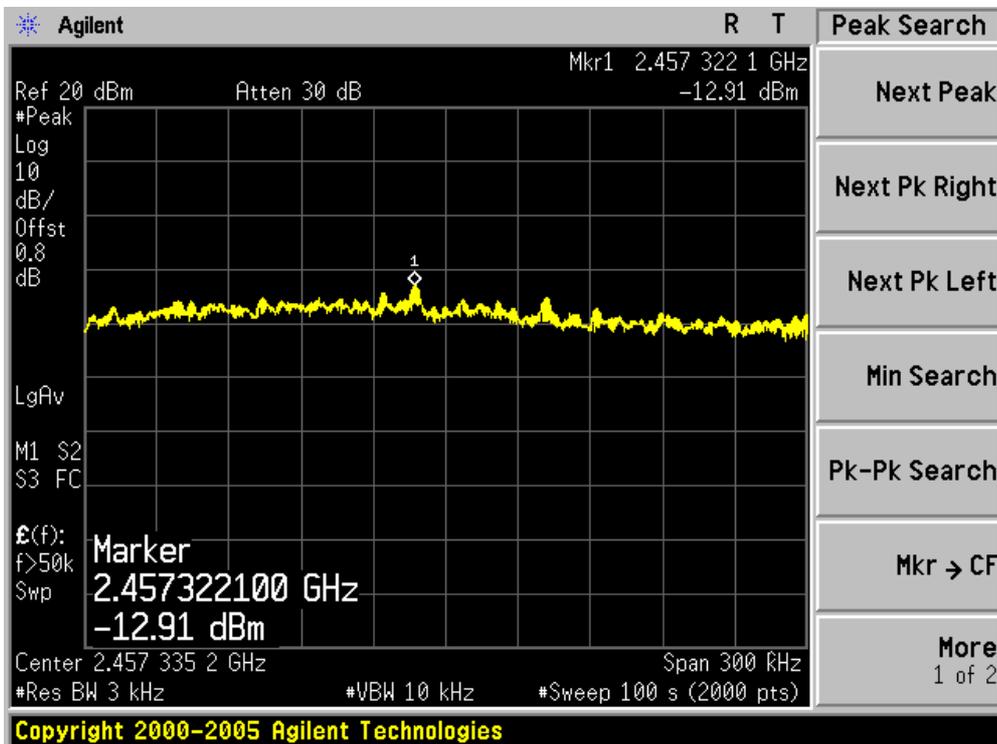
### Channel 01 (2412MHz)



Channel 06 (2437MHz)



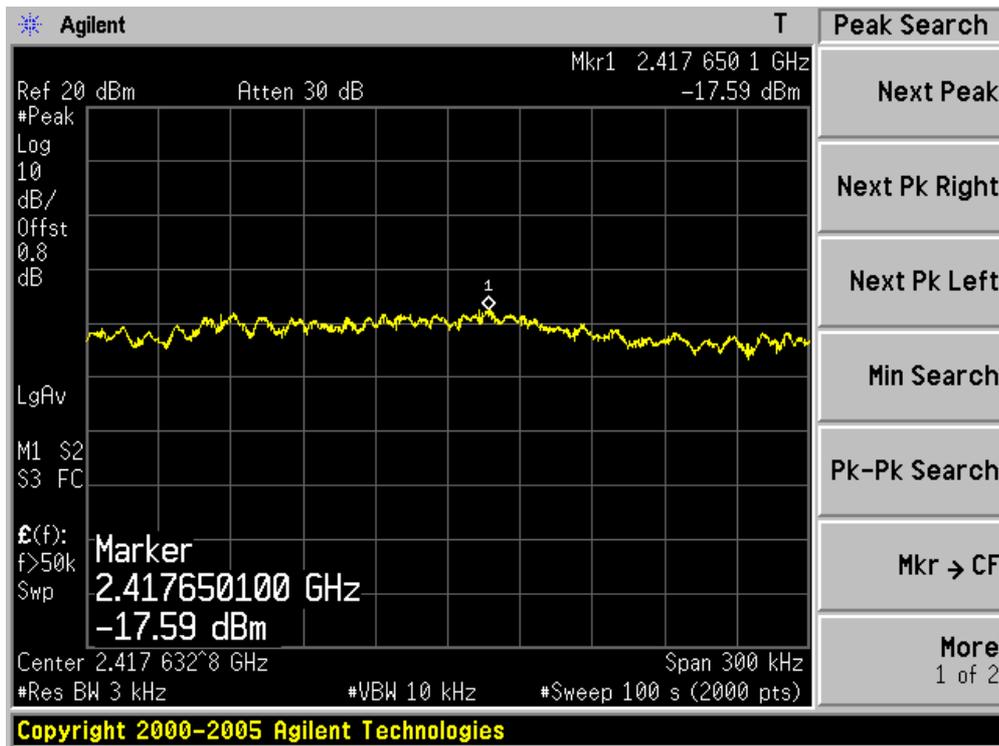
Channel 11 (2462MHz)



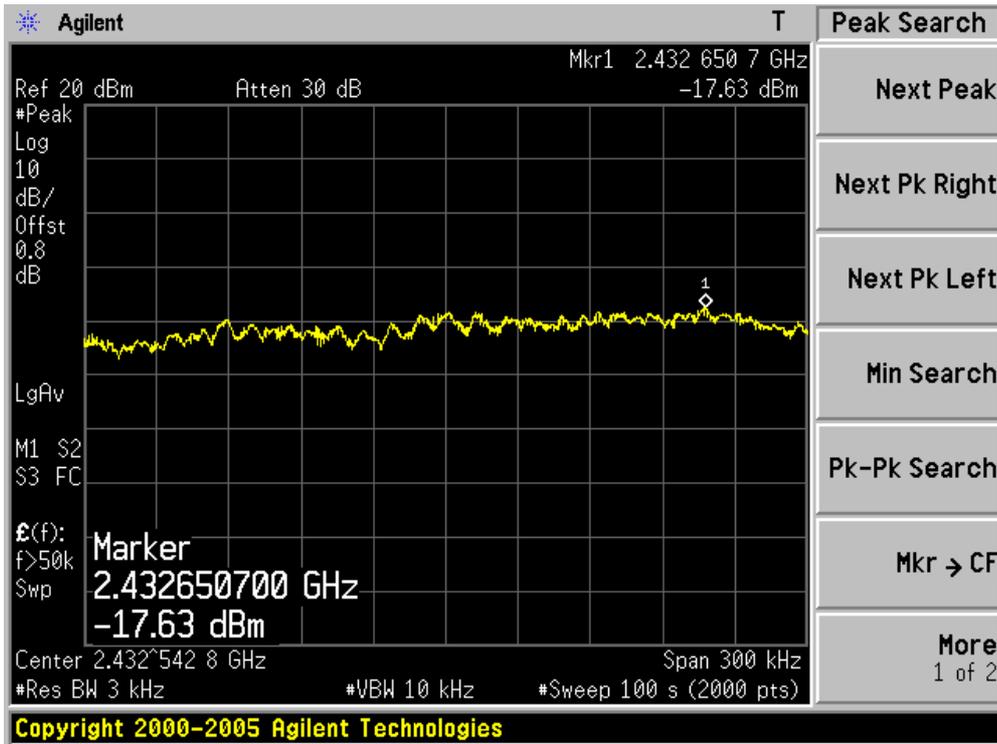
Product	:	Eee PC
Test Item	:	Power Spectral Density
Test Site	:	AC-6
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz Bandwidth)

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
03	2422	-17.59	8	Pass
06	2437	-17.63	8	Pass
09	2452	-17.77	8	Pass

### Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)

