



# Test Report

Product Name : Notebook  
Model No. : Qbook  
FCC ID : WXC-Q189082Q

Applicant : FOXCONN INTERNATIONAL INC  
Address : 2 TZU YU ST TU-CHENG, TAIPEI HSIEN 236 TAIWAN

Date of Receipt : 2008/09/02  
Issued Date : 2008/10/14  
Report No. : 089S038R-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.  
The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.

# Test Report Certification

Issued Date : 2008/10/14

Report No. : 089S038R-RF-US-P05V01



Product Name : Notebook

Applicant : FOXCONN INTERNATIONAL INC

Address : 2 TZU YU ST TU-CHENG,TAIPEI HSIEN 236 TAIWAN

Manufacturer : PCE Industry Inc.

Address : 458 E. Lambert Rd, Fullerton, CA92835 USA

Model No. : Qbook

FCC ID : WXC-Q189082Q

Rated Voltage : AC 120 V / 60 Hz


EUT Voltage : AC 100-240 V / 50-60 Hz

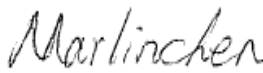
Trade Name : Foxconn

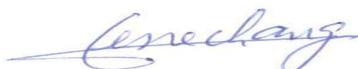
Applicable Standard : FCC CFR Title 47 Part 15 Subpart C: 2007  
ANSI C63.4: 2003

Test Result : Complied

Performed Location : SuZhou EMC laboratory  
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FCC Registration Number: 800392

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## 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:

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

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:

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## 1. General Information

### 1.1. EUT Description

Product Name	Notebook
Trade Name	Foxconn
Model No.	Qbook
FCC ID	WXC-Q189082Q

Note:

This product includes six models, they are identical except the appearance; from these models, Qbook-5H8MW-BC was selected as the test model, and then its test data was selected in this report.

Component	
AC Adapter#1	Manufacturer: LITEON TECHNOLOGY CORPORATION M/N: PA-1300-04 Input: 100V~240V ~, 1.0A Output: 19V, 1.58A
AC Adapter#2	Manufacturer: DELTA ELECTRONICS, INC. M/N: ADP-30JH B Input: 100V~240V ~, 50~60Hz Output: 19V, 1.58A

WLAN	LITEON / WN6302LH
Working Voltage	DC 3.3V
Frequency Range	802.11b/g: 2412 - 2462 MHz
Channel Number	802.11b/g: 11
Type of Modulation	802.11b: DSSS
	802.11g: OFDM
Data Rate	802.11b: 1/2/5.5/11 Mbps
	802.11g: 6/9/12/18/24/36/48/54 Mbps
Channel Control	Auto
Antenna Type	PIFA
Antenna Gain	Refer to the "Antenna List"

**802.11b/g 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

**802.11b/g Antenna List**

Antenna	Manufacturer	P/N.	Peak Gain
Main Antenna	FOXCONN	WDAN-1BQBK001-1F	-3.10dBi
Aux Antenna	FOXCONN	WDAN-1BQBK002-1F	-1.65dBi



**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

Note:

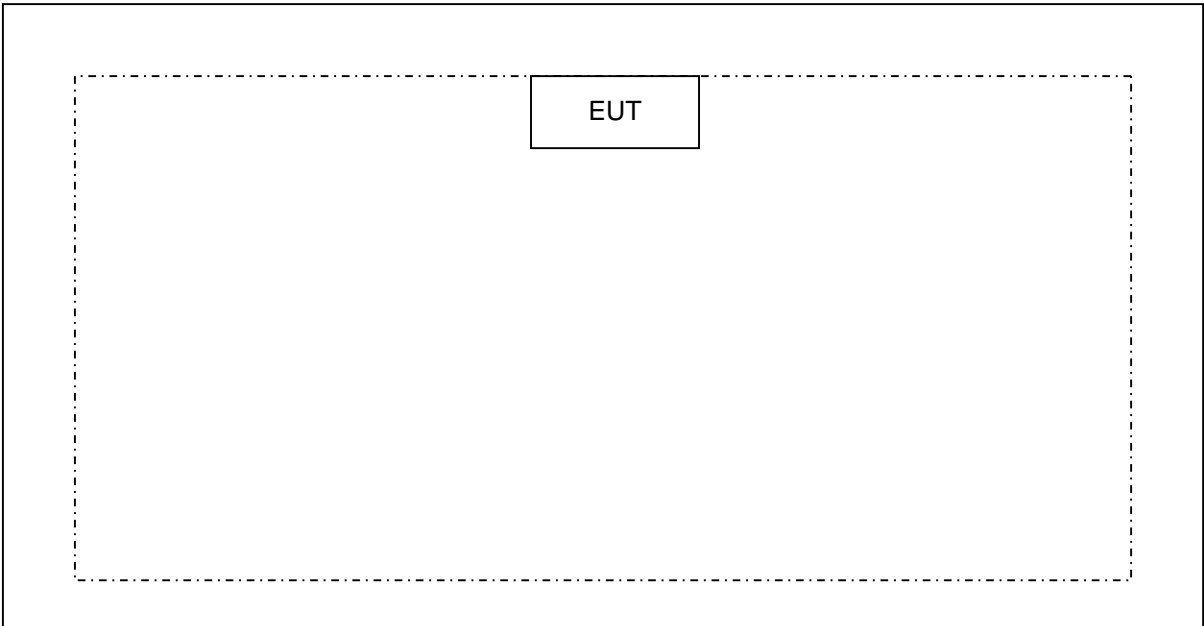
1. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.
2. This device is a composite device in accordance with Part 15 Subpart B regulations. The function for the receiver was measured and made a test report that the report number is 089S038-IT-US-P01V02, certified under Declaration of Conformity.

### 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	N/A	N/A	N/A	N/A	N/A

1.4. Configuration of Tested System

Connection Diagram	
	
Signal Cable Type	Signal cable Description

**1.5. EUT Exercise Software**

1	Setup the EUT and simulators as shown on above
2	Turn on the power of EUT.
3	Execute the software “RTL8187S” for wireless.
4	Setup the test channel and the test mode, and then begin to test.

## 2. Technical Test

### 2.1. Summary of Test Result

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

Performed Test Item	Normative References	Test Performed	Deviation
Conducted Emission	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.207	Yes	No
Radiated Emission	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.209	Yes	No
RF Antenna Conducted Spurious	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.247(d)	Yes	No
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart C: 2007 15.247(d)	Yes	No
Operation Frequency Range of 20dB Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2007 15.215(c)	Yes	No
Occupied Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.247(a)(2)	Yes	No
Power Output	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.247(b)(3)	Yes	No
Power Spectral Density	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.247(e)	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

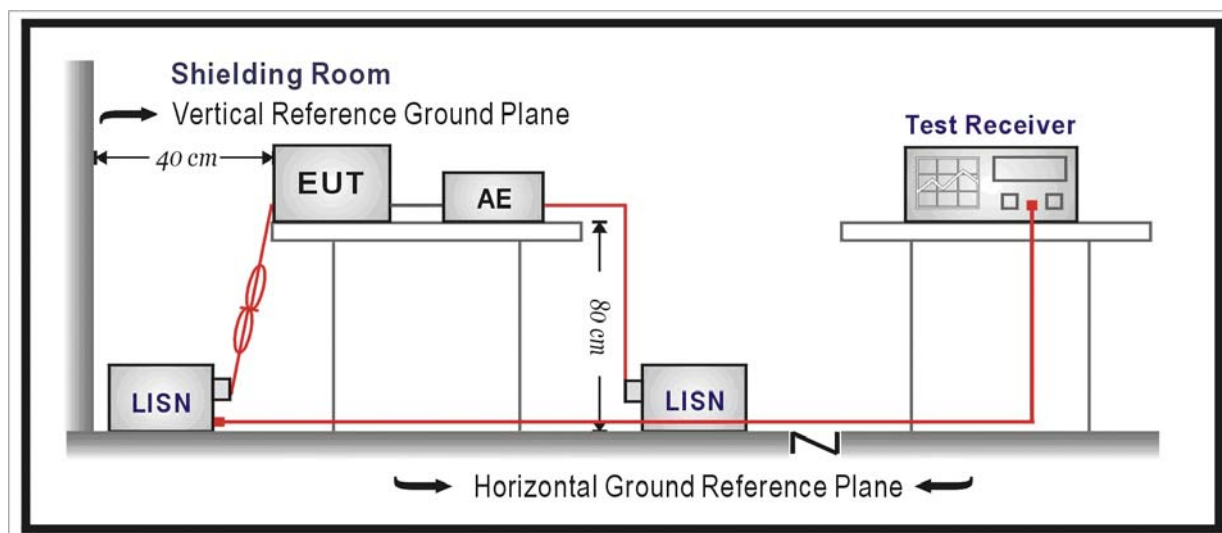
#### 3.1. Test Equipment

Conducted Emission / SR-1

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
EMI Test Receiver	R&S	ESCI	100726	2008/06/28
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	2007/11/25
50ohm Termination	SHX	TF2	07081401	2008/09/28
Coaxial Cable	Luthi	RG214	519358	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH004	2008/03/31

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.

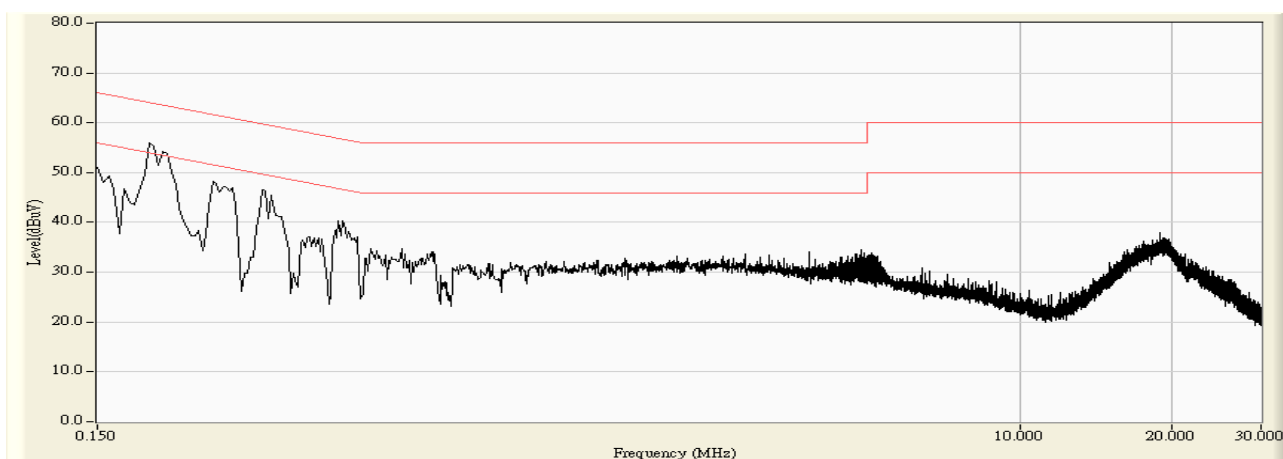
### 3.5. Uncertainty

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

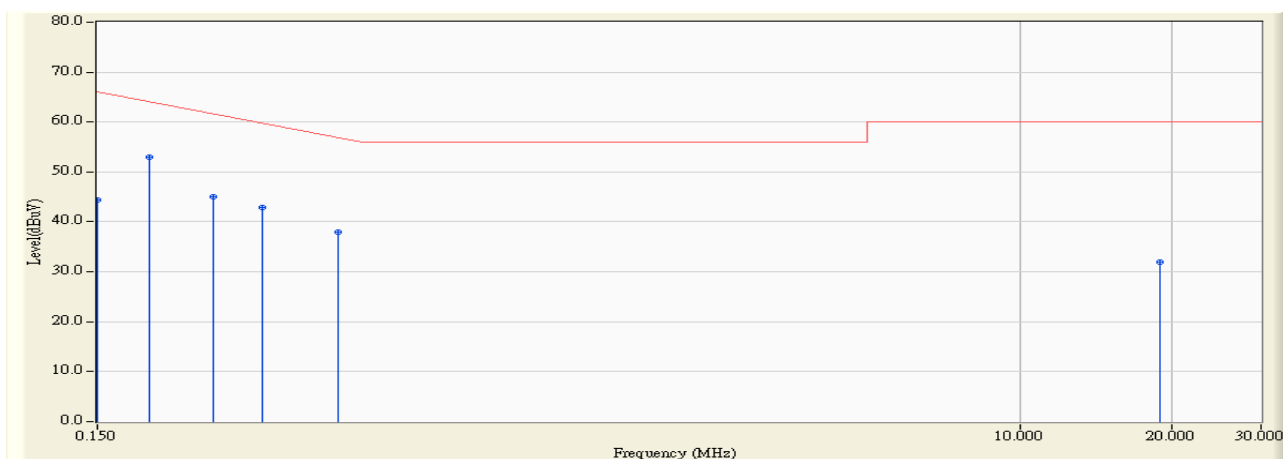


## 3.6. Test Result

Engineer : Robin	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2008/09/12 - 13:21
Limit : FCC_SPartC_15.207_00M_QP	Margin : 10
EUT : Notebook(Wireless)	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz

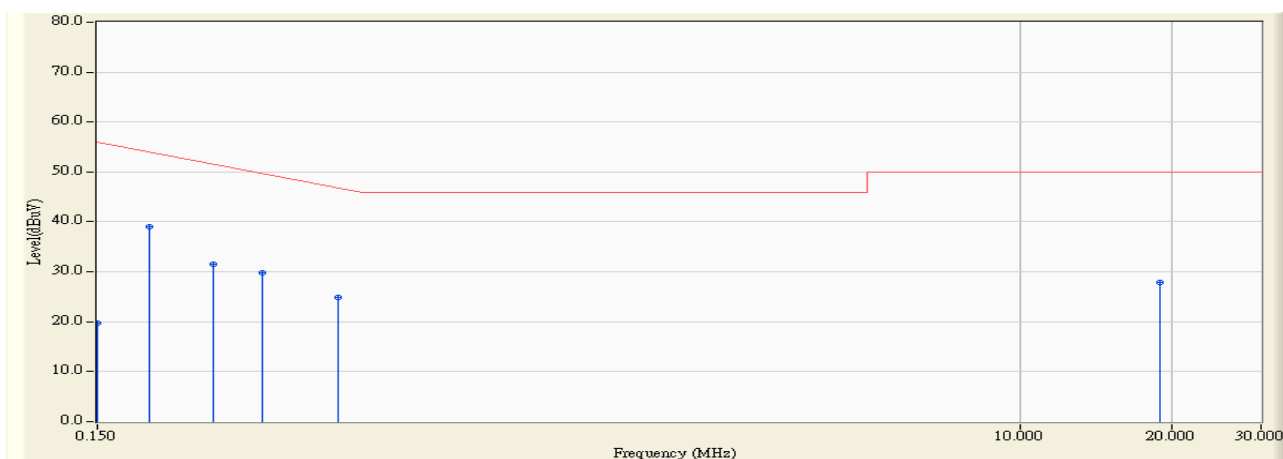


Engineer : Robin	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2008/09/12 - 13:24
Limit : FCC_SPartC_15.207_00M_QP	Margin : 0
EUT : Notebook(Wireless)	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz



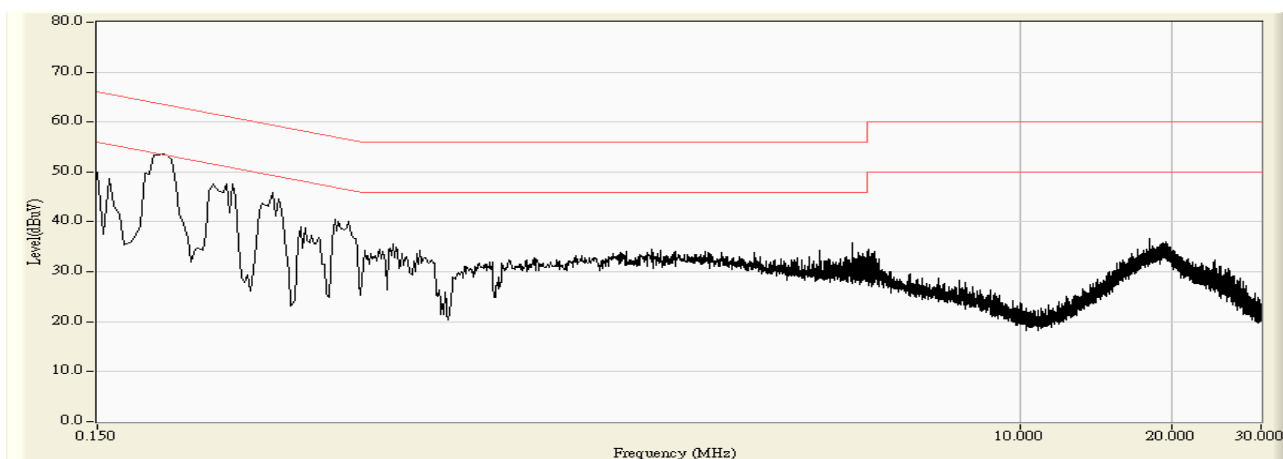
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.150	10.160	34.300	44.460	-21.540	66.000	QUASIPeAK
2	*	0.190	9.633	43.300	52.933	-11.924	64.857	QUASIPeAK
3		0.254	9.463	35.600	45.063	-17.966	63.029	QUASIPeAK
4		0.318	9.516	33.300	42.816	-18.384	61.200	QUASIPeAK
5		0.450	9.594	28.400	37.994	-19.435	57.429	QUASIPeAK
6		18.978	10.150	21.900	32.050	-27.950	60.000	QUASIPeAK

Engineer : Robin	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2008/09/12 - 13:24
Limit : FCC_SPartC_15.207_00M_AV	Margin : 0
EUT : Notebook(Wireless)	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz

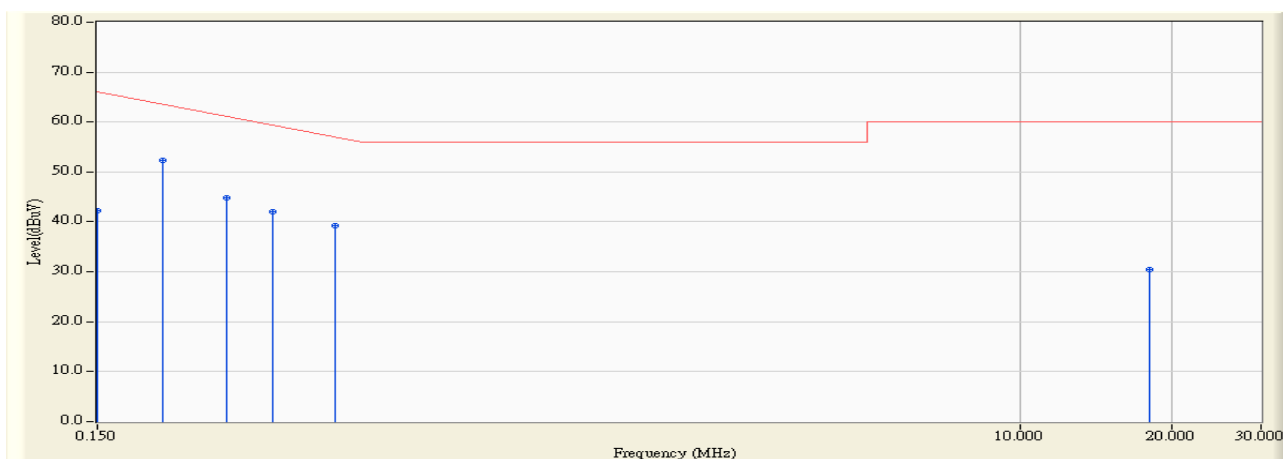


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.150	10.160	9.600	19.760	-36.240	56.000	AVERAGE
2	*	0.190	9.633	29.400	39.033	-15.824	54.857	AVERAGE
3		0.254	9.463	22.100	31.563	-21.466	53.029	AVERAGE
4		0.318	9.516	20.300	29.816	-21.384	51.200	AVERAGE
5		0.450	9.594	15.200	24.794	-22.635	47.429	AVERAGE
6		18.978	10.150	17.800	27.950	-22.050	50.000	AVERAGE

Engineer : Robin	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2008/09/12 - 13:25
Limit : FCC_SPartC_15.207_00M_QP	Margin : 10
EUT : Notebook(Wireless)	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz

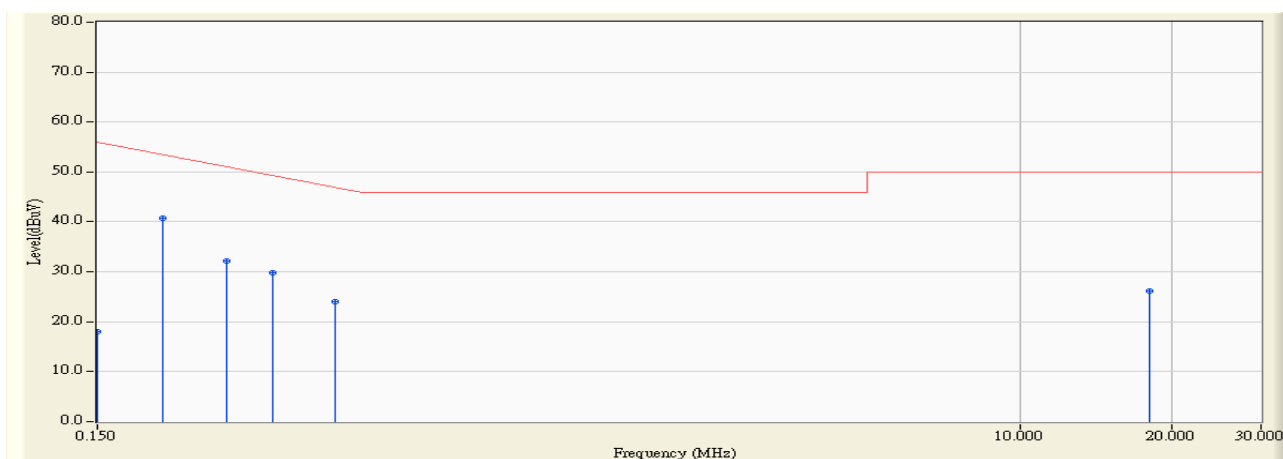


Engineer : Robin	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2008/09/12 - 13:28
Limit : FCC_SPartC_15.207_00M_QP	Margin : 0
EUT : Notebook(Wireless)	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.150	10.006	32.200	42.206	-23.794	66.000	QUASIPeAK
2	*	0.202	9.648	42.700	52.348	-12.166	64.514	QUASIPeAK
3		0.270	9.587	35.300	44.887	-17.684	62.571	QUASIPeAK
4		0.334	9.600	32.500	42.100	-18.643	60.743	QUASIPeAK
5		0.442	9.614	29.600	39.214	-18.443	57.657	QUASIPeAK
6		18.114	10.160	20.200	30.360	-29.640	60.000	QUASIPeAK

Engineer : Robin	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2008/09/12 - 13:28
Limit : FCC_SPartC_15.207_00M_AV	Margin : 0
EUT : Notebook(Wireless)	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.150	10.006	8.100	18.106	-37.894	56.000	AVERAGE
2	*	0.202	9.648	31.100	40.748	-13.766	54.514	AVERAGE
3		0.270	9.587	22.600	32.187	-20.384	52.571	AVERAGE
4		0.334	9.600	20.200	29.800	-20.943	50.743	AVERAGE
5		0.442	9.614	14.400	24.014	-23.643	47.657	AVERAGE
6		18.114	10.160	15.900	26.060	-23.940	50.000	AVERAGE

## 4. Radiated Emission

### 4.1. Test Equipment

☒ Radiated Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4408B	MY45102679	2008/06/28
EMI Test Receiver	R&S	ESCI	100573	2008/05/10
Preamplifier	Quietek	AP-025C	QT-AP003	2007/11/25
Preamplifier	Quietek	AP-180C	CHM-0602012	2007/11/25
Bilog Type Antenna	Schaffner	CBL6112B	2932	2007/11/22
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2008/06/28
High-Pass Filter	Wainwright	WHKX2.8/18G-12SS	SN1	2008/03/03
Band Reject Filter	Wainwright	WRCG2400/2485-2375 /2510-60/11SS	SN9	2008/03/03
High-Pass Filter	Wainwright	WHKX7.0/18G-8SS	SN16	2008/03/03
Low-Pass Filter	Wainwright	WLKS4500-9SS	SN2	2008/03/03
50ohm Coaxial Switch	Anritsu	MP59B	6200447304	2007/11/25
Coaxial Cable	Huber+Suhner	AC2-C	04	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH002	2008/03/31

☐ Radiated Emission / AC-3

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2008/04/24
EMI Test Receiver	R&S	ESCI	100176	2007/11/15
Preamplifier	Quietek	AP-025C	QT-AP004	2007/11/25
Preamplifier	Quietek	AP-180C	CHM-0602012	2007/11/25
Bilog Type Antenna	Schaffner	CBL6112D	22254	2007/11/22
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2008/06/28
High-Pass Filter	Wainwright	WHKX2.8/18G-12SS	SN1	2008/03/03
Band Reject Filter	Wainwright	WRCG2400/2485-2375 /2510-60/11SS	SN9	2008/03/03
High-Pass Filter	Wainwright	WHKX7.0/18G-8SS	SN16	2008/03/03
Low-Pass Filter	Wainwright	WLKS4500-9SS	SN2	2008/03/03
50ohm Coaxial Switch	Anritsu	MP59B	6200464463	2007/11/25
Coaxial Cable	Huber+Suhner	AC2-C	05	2007/11/25

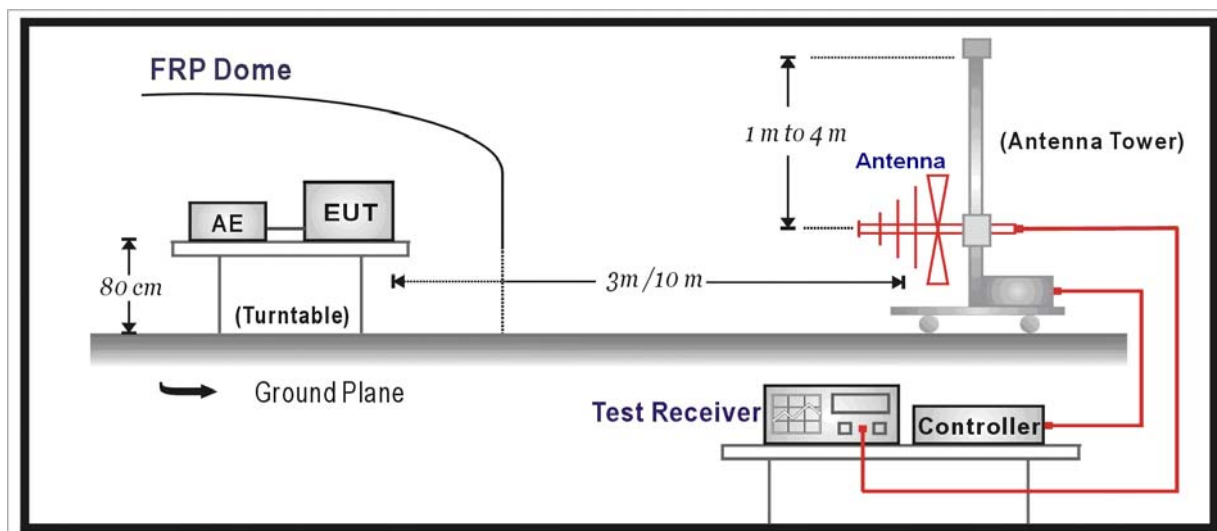
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH003	2008/03/31
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Note 1: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

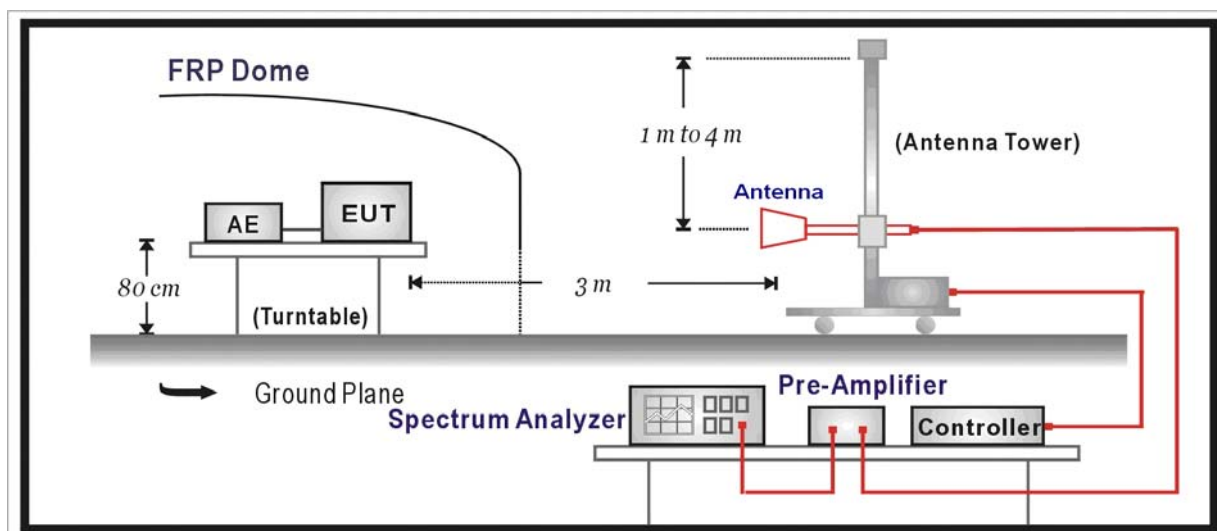
Note 2: The test instruments marked with "X" are used to measure the final test results.

## 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.

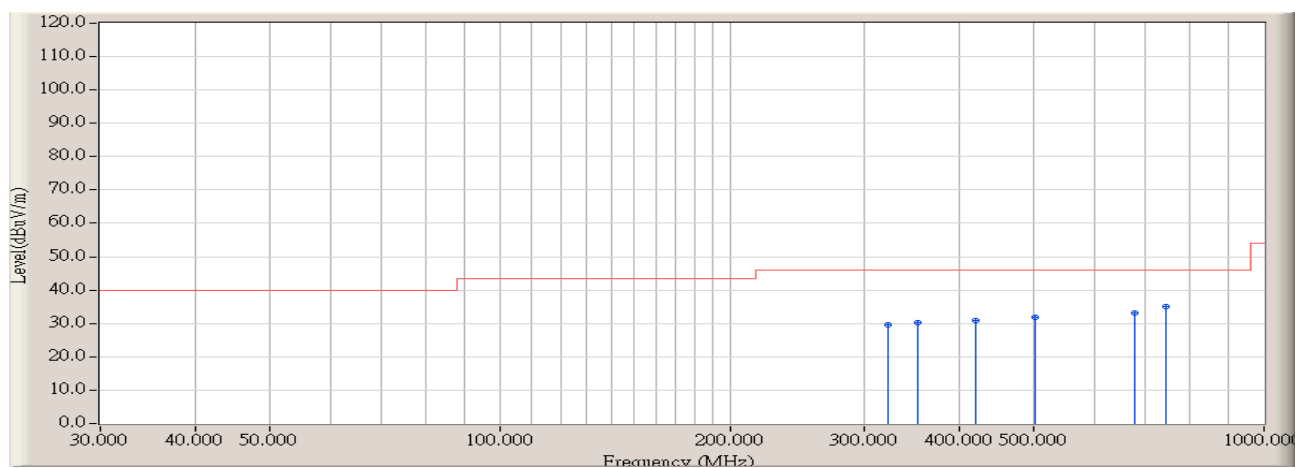
Note: When doing emission measurement above 1GHz, the horn antenna will be bended down a little (as horn antenna has the narrow beamwidth) in order to keeping the antenna in the "cone of radiation" of EUT. The 3dB beamwidth is 60 degrees for H-plane and 90 degrees for E-plane.

#### 4.5. Uncertainty

The measurement uncertainty above 1G is defined as  $\pm 3.9$  dB  
below 1G is defined as  $\pm 3.8$  dB

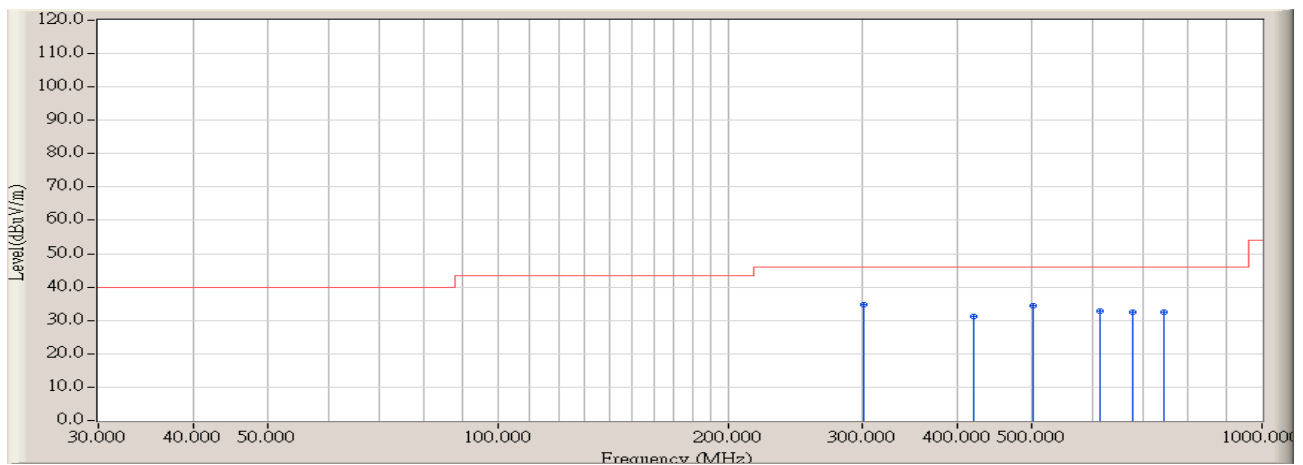
## 4.6. Test Result

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/18 - 09:58
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : Notebook(Wireless)	Probe : CBL6112D_22254(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz



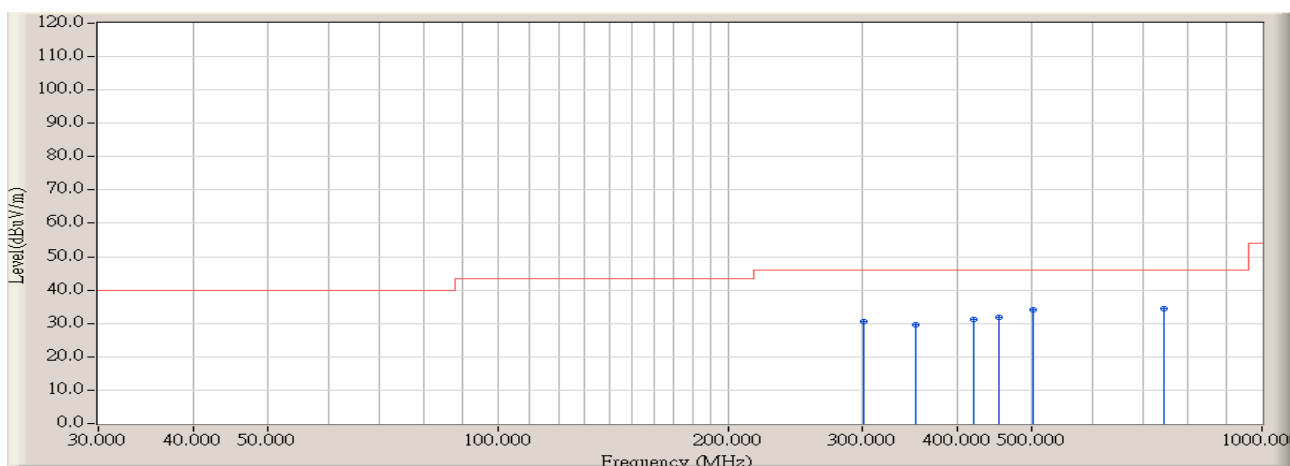
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		322.617	-7.030	36.700	29.670	-16.350	46.020	QUASIPeAK	124.600	190.000
2		351.717	-6.157	36.296	30.139	-15.881	46.020	QUASIPeAK	150.600	69.440
3		419.617	-4.633	35.417	30.784	-15.236	46.020	QUASIPeAK	110.000	68.800
4		502.067	-3.368	35.137	31.769	-14.251	46.020	QUASIPeAK	180.760	311.600
5		678.283	0.125	33.053	33.178	-12.842	46.020	QUASIPeAK	125.600	19.650
6	*	742.950	1.198	33.919	35.117	-10.903	46.020	QUASIPeAK	132.900	8.800

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/18 - 09:58
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : Notebook(Wireless)	Probe : CBL6112D_22254(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz



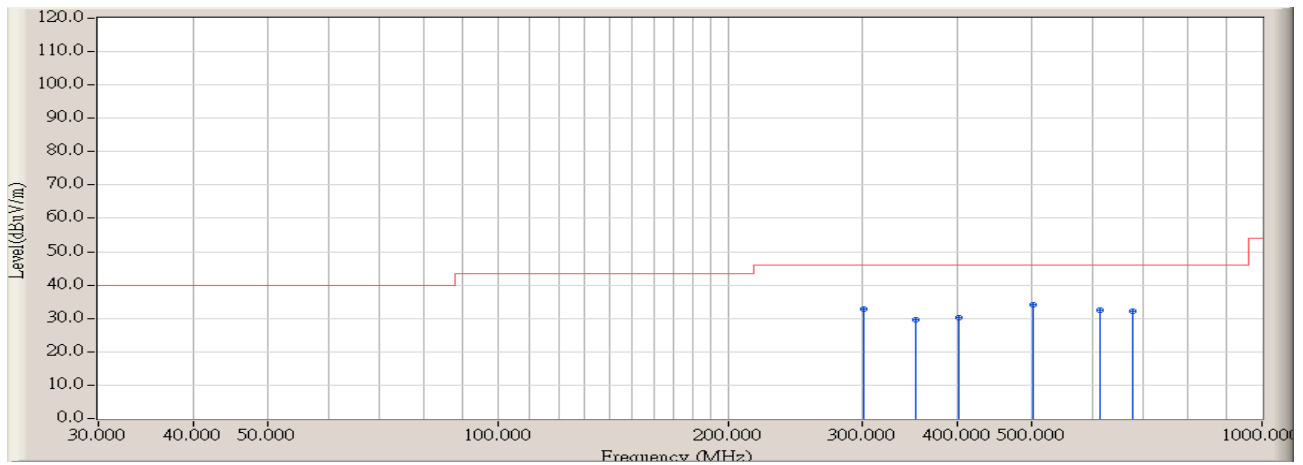
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	301.600	-7.804	42.689	34.885	-11.135	46.020	QUASIPeAK	100.000	236.400
2		419.617	-4.633	35.827	31.194	-14.826	46.020	QUASIPeAK	135.840	32.680
3		502.067	-3.368	37.663	34.295	-11.725	46.020	QUASIPeAK	124.600	150.600
4		613.617	-1.326	34.226	32.900	-13.120	46.020	QUASIPeAK	117.650	95.000
5		678.283	0.125	32.450	32.575	-13.445	46.020	QUASIPeAK	105.260	25.450
6		742.950	1.198	31.166	32.364	-13.656	46.020	QUASIPeAK	150.230	213.600

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/18 - 09:58
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : Notebook(Wireless)	Probe : CBL6112D_22254(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz



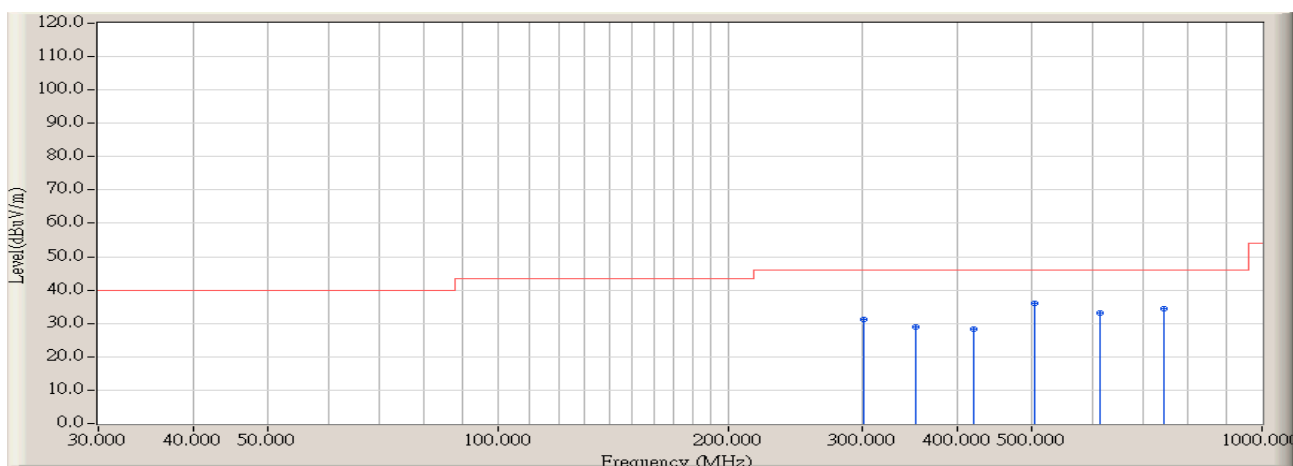
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		301.600	-7.804	38.262	30.458	-15.562	46.020	QUASIPeAK	133.000	204.000
2		351.717	-6.157	35.840	29.683	-16.337	46.020	QUASIPeAK	100.000	266.400
3		419.617	-4.633	35.836	31.203	-14.817	46.020	QUASIPeAK	100.000	199.300
4		451.950	-4.254	36.024	31.770	-14.250	46.020	QUASIPeAK	109.700	182.300
5		502.067	-3.368	37.337	33.969	-12.051	46.020	QUASIPeAK	100.000	236.800
6	*	742.950	1.198	33.089	34.287	-11.733	46.020	QUASIPeAK	229.000	106.000

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/18 - 09:58
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : Notebook(Wireless)	Probe : CBL6112D_22254(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz



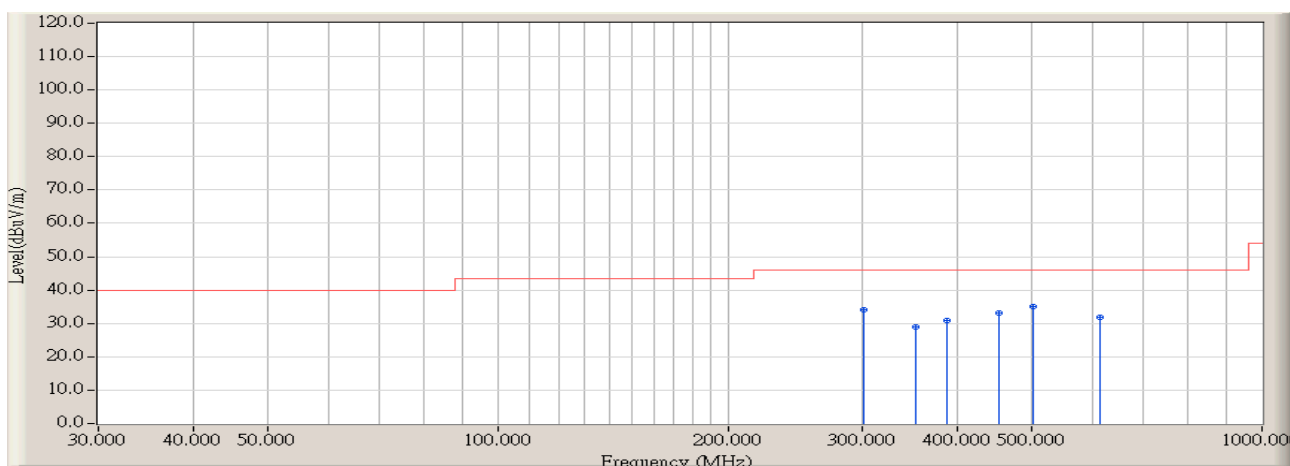
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		301.600	-7.804	40.671	32.867	-13.153	46.020	QUASIPeAK	115.000	204.000
2		351.717	-6.157	35.612	29.455	-16.565	46.020	QUASIPeAK	189.000	117.000
3		401.833	-4.893	35.035	30.141	-15.879	46.020	QUASIPeAK	100.000	239.600
4	*	502.067	-3.368	37.415	34.047	-11.973	46.020	QUASIPeAK	115.100	43.000
5		613.617	-1.326	33.898	32.572	-13.448	46.020	QUASIPeAK	118.000	195.000
6		678.283	0.125	32.166	32.291	-13.729	46.020	QUASIPeAK	100.000	142.000

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/18 - 09:58
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : Notebook(Wireless)	Probe : CBL6112D_22254(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz



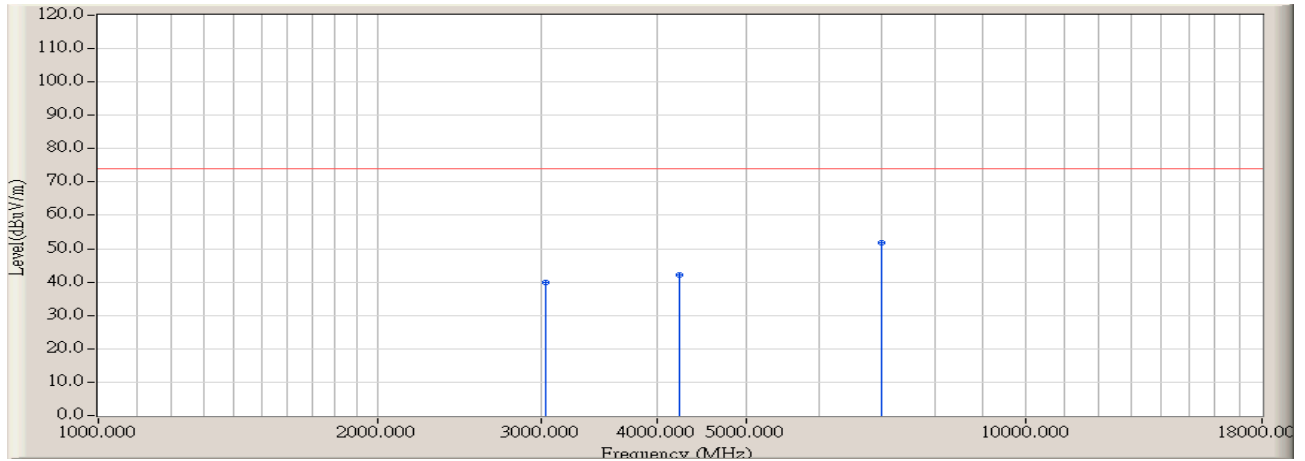
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		301.600	-7.804	38.892	31.088	-14.932	46.020	QUASIPeAK	100.000	100.000
2		351.717	-6.157	34.958	28.801	-17.219	46.020	QUASIPeAK	200.000	40.000
3		419.617	-4.633	32.917	28.284	-17.736	46.020	QUASIPeAK	210.000	45.000
4	*	503.683	-3.331	39.501	36.171	-9.849	46.020	QUASIPeAK	180.000	300.000
5		613.617	-1.326	34.519	33.193	-12.827	46.020	QUASIPeAK	200.000	100.000
6		742.950	1.198	33.229	34.427	-11.593	46.020	QUASIPeAK	200.000	180.000

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/18 - 09:59
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : Notebook(Wireless)	Probe : CBL6112D_22254(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		301.600	-7.804	41.856	34.052	-11.968	46.020	QUASIPeAK	100.000	30.000
2		351.717	-6.157	35.232	29.075	-16.945	46.020	QUASIPeAK	100.000	26.000
3		387.283	-5.437	36.374	30.936	-15.084	46.020	QUASIPeAK	100.000	38.000
4		451.950	-4.254	37.376	33.122	-12.898	46.020	QUASIPeAK	100.000	12.000
5	*	502.067	-3.368	38.286	34.918	-11.102	46.020	QUASIPeAK	100.000	150.000
6		613.617	-1.326	33.221	31.895	-14.125	46.020	QUASIPeAK	100.000	23.000

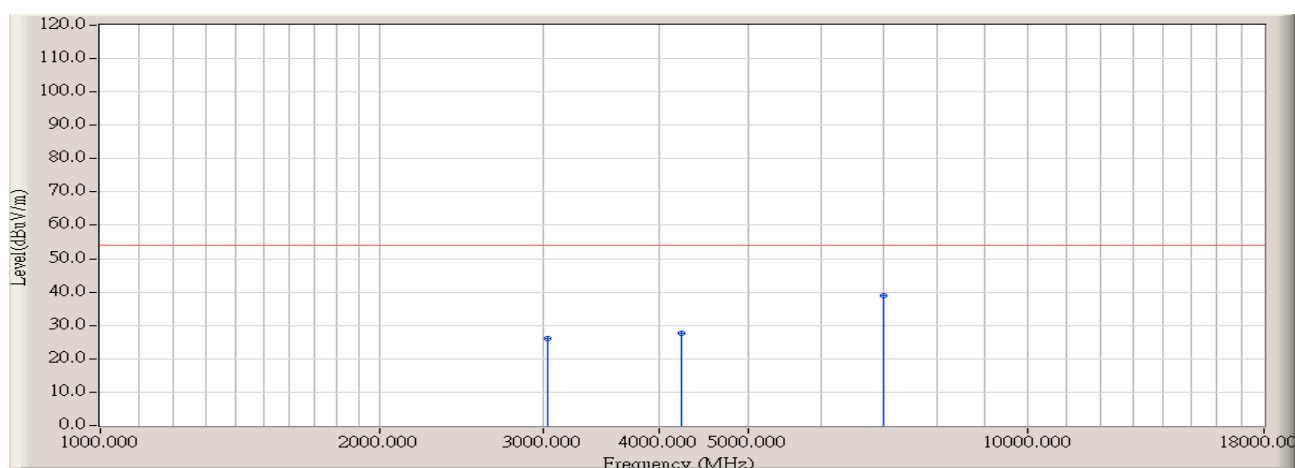
Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/17 - 15:28
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		3040.000	-1.550	41.406	39.856	-34.114	73.970	PEAK	104.500	311.000
2		4230.000	1.130	40.932	42.062	-31.908	73.970	PEAK	100.000	157.000
3	*	7006.667	11.367	40.419	51.786	-22.184	73.970	PEAK	105.000	147.000

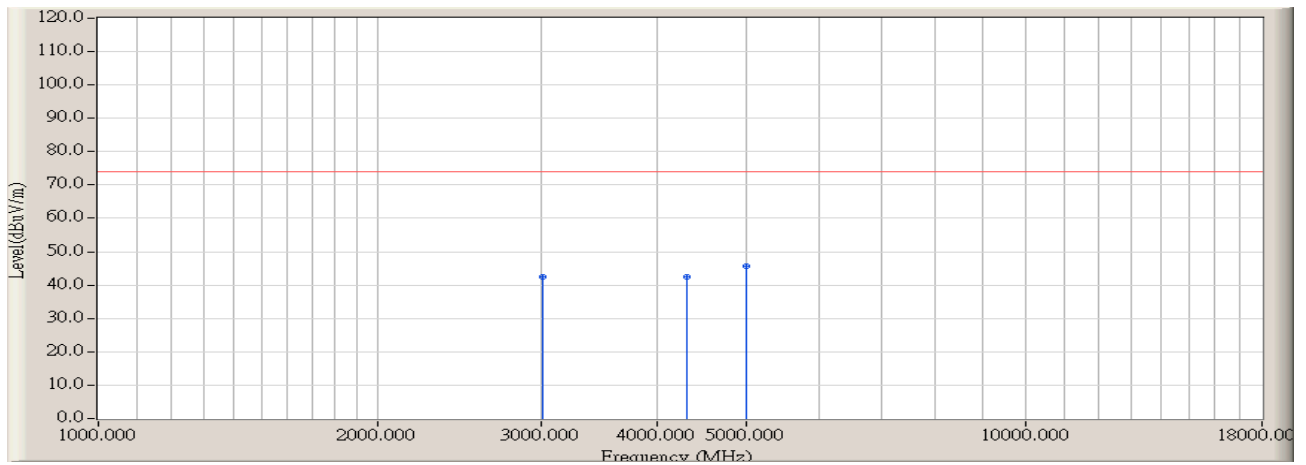


Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/17 - 15:28
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz



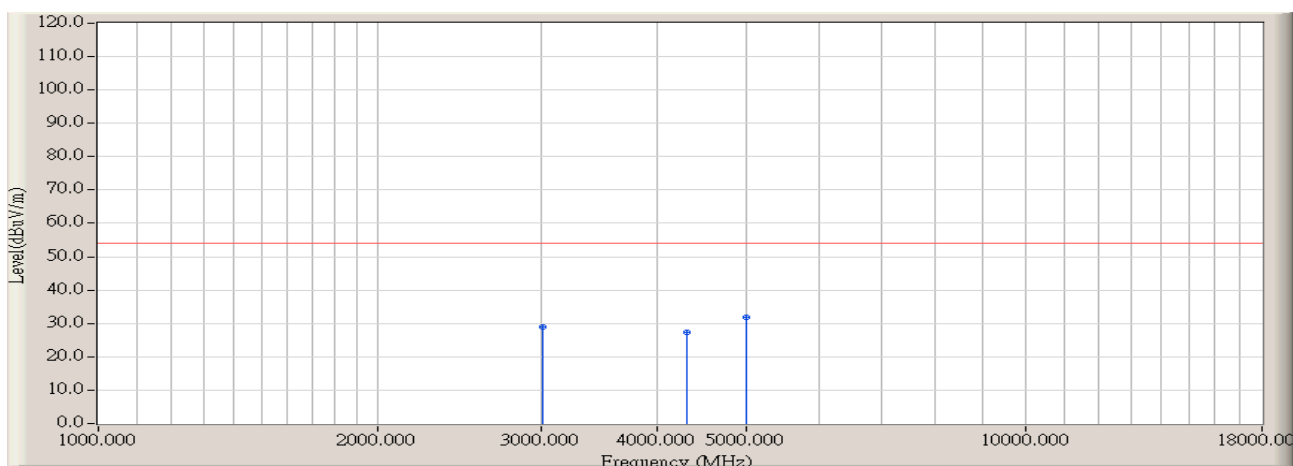
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		3040.000	-1.550	27.600	26.050	-27.920	53.970	AVERAGE	104.500	311.000
2		4230.000	1.130	26.500	27.630	-26.340	53.970	AVERAGE	100.000	157.000
3	*	7006.667	11.367	27.400	38.767	-15.203	53.970	AVERAGE	105.000	147.000

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/17 - 15:29
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz



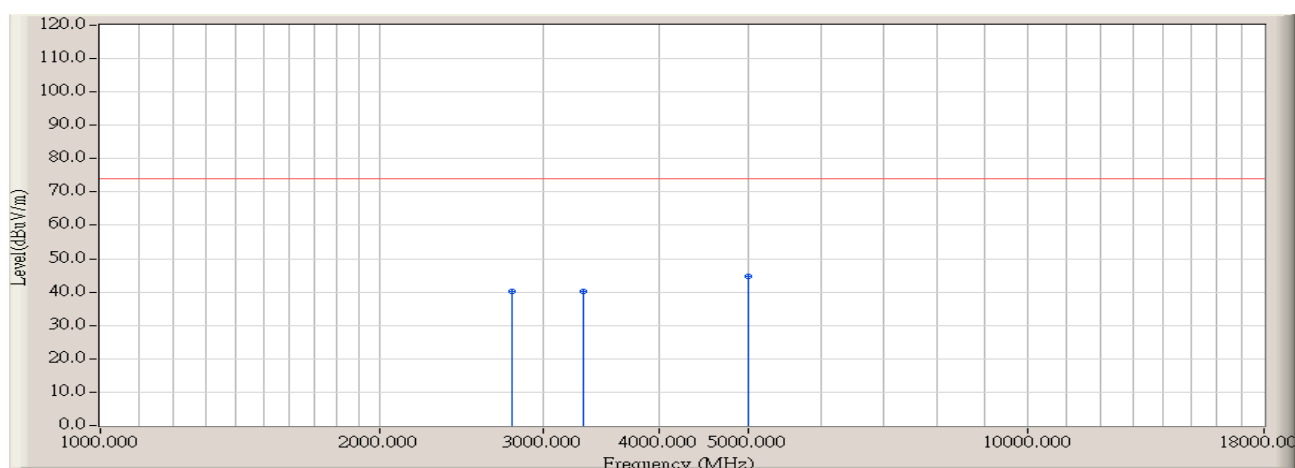
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		3011.667	-1.796	44.309	42.512	-31.458	73.970	PEAK	100.000	158.400
2		4315.000	1.700	40.759	42.459	-31.511	73.970	PEAK	102.300	154.000
3	*	4995.000	3.880	41.731	45.611	-28.359	73.970	PEAK	102.000	119.000

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/17 - 15:29
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz



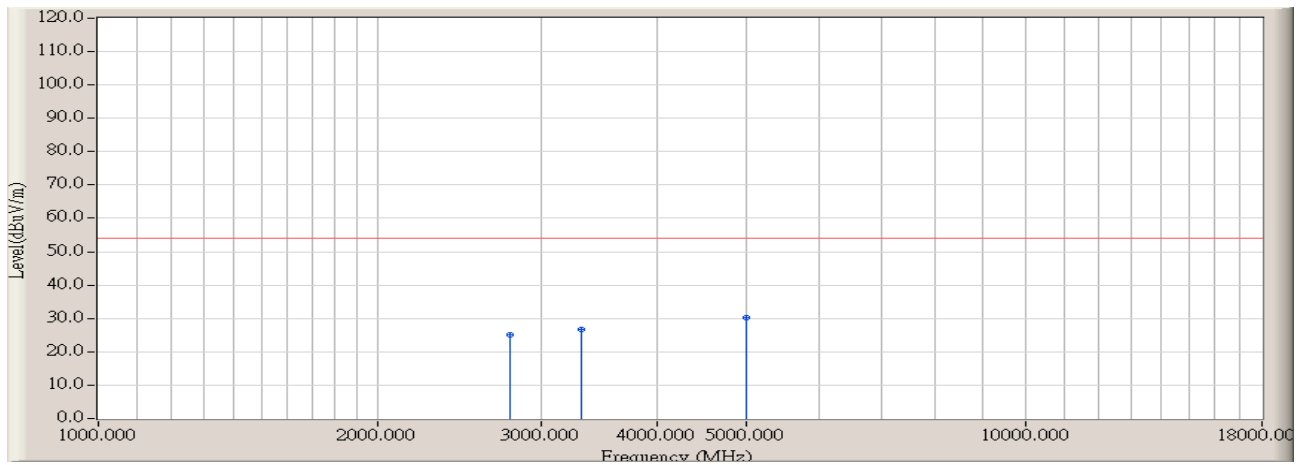
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		3011.667	-1.796	30.800	29.003	-24.967	53.970	AVERAGE	100.000	158.400
2		4315.000	1.700	25.700	27.400	-26.570	53.970	AVERAGE	102.300	154.000
3	*	4995.000	3.880	28.100	31.980	-21.990	53.970	AVERAGE	102.000	119.000

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/17 - 15:29
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz



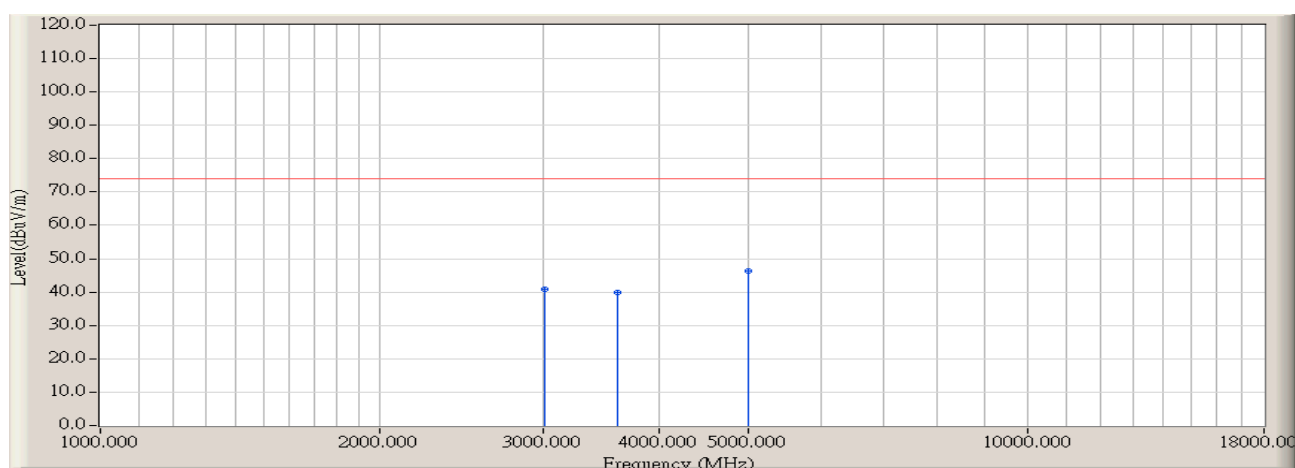
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		2785.000	-2.550	42.707	40.157	-33.813	73.970	PEAK	103.600	184.000
2		3323.333	-1.667	42.015	40.348	-33.622	73.970	PEAK	107.000	208.000
3	*	4995.000	3.880	40.887	44.767	-29.203	73.970	PEAK	108.000	114.000

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/17 - 15:29
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz



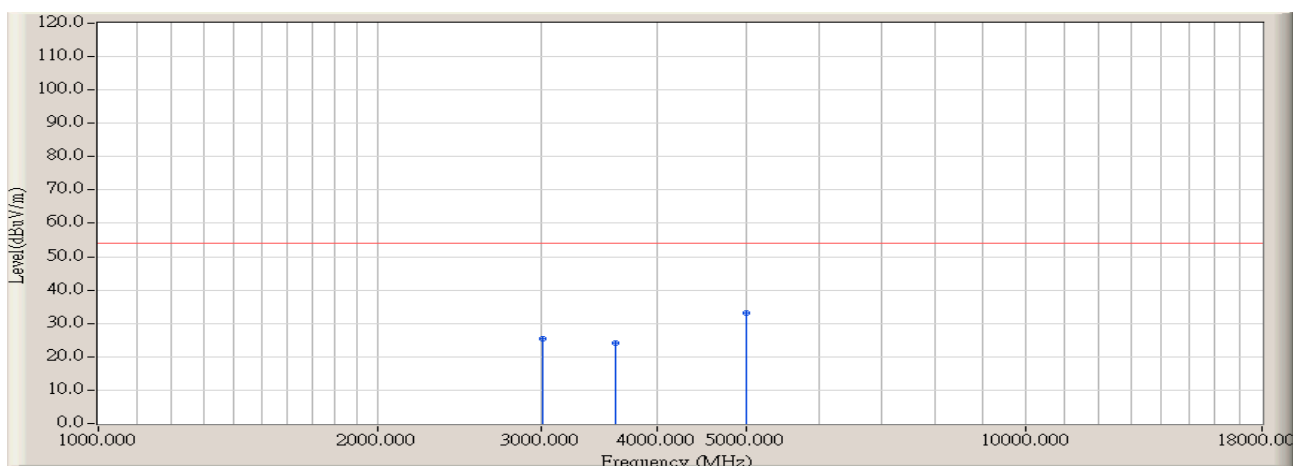
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		2785.000	-2.550	27.500	24.950	-29.020	53.970	AVERAGE	103.600	184.000
2		3323.333	-1.667	28.400	26.733	-27.237	53.970	AVERAGE	107.000	208.000
3	*	4995.000	3.880	26.400	30.280	-23.690	53.970	AVERAGE	108.000	114.000

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/17 - 15:29
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz



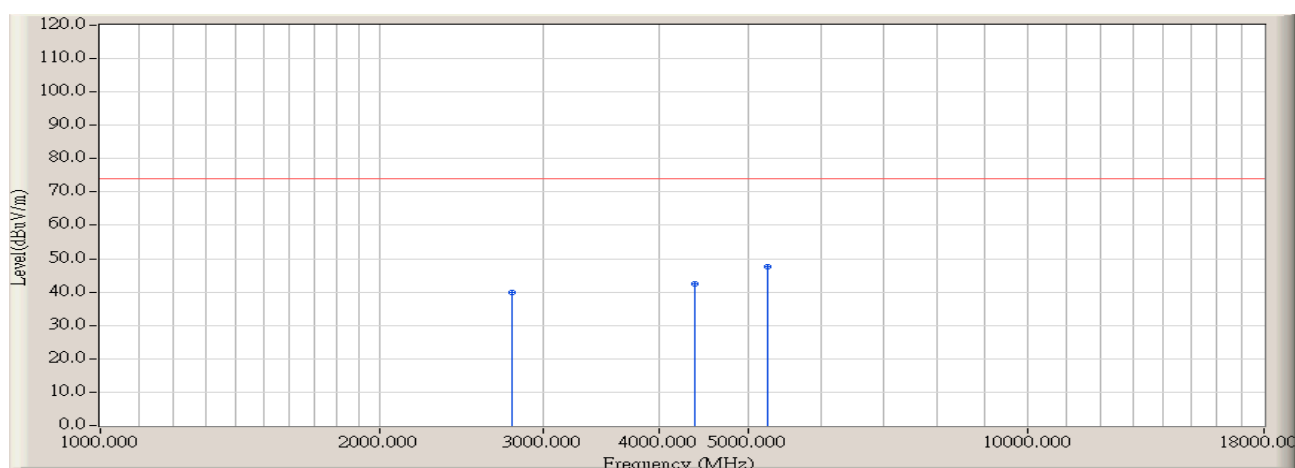
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		3011.667	-1.796	42.547	40.750	-33.220	73.970	PEAK	100.000	224.000
2		3606.667	-0.536	40.477	39.940	-34.030	73.970	PEAK	105.000	174.000
3	*	4995.000	3.880	42.395	46.275	-27.695	73.970	PEAK	101.400	275.000

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/17 - 15:29
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		3011.667	-1.796	27.300	25.503	-28.467	53.970	AVERAGE	100.000	224.000
2		3606.667	-0.536	24.800	24.263	-29.707	53.970	AVERAGE	105.000	174.000
3	*	4995.000	3.880	29.300	33.180	-20.790	53.970	AVERAGE	101.400	275.000

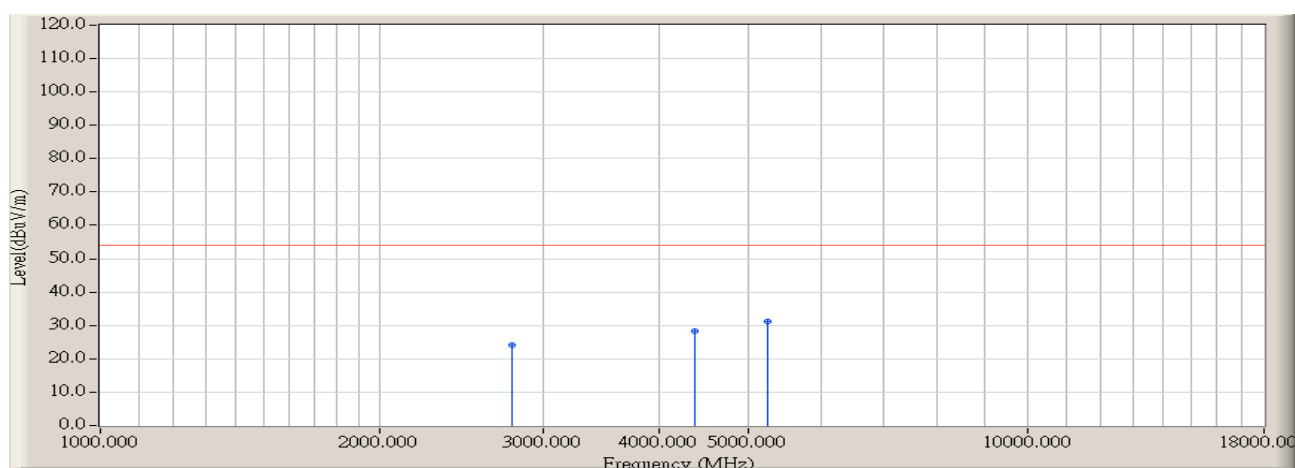
Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/17 - 15:29
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		2785.000	-2.550	42.537	39.987	-33.983	73.970	PEAK	100.000	95.800
2		4371.667	1.827	40.735	42.562	-31.408	73.970	PEAK	103.600	184.700
3	*	5250.000	3.970	43.511	47.481	-26.489	73.970	PEAK	100.000	82.900

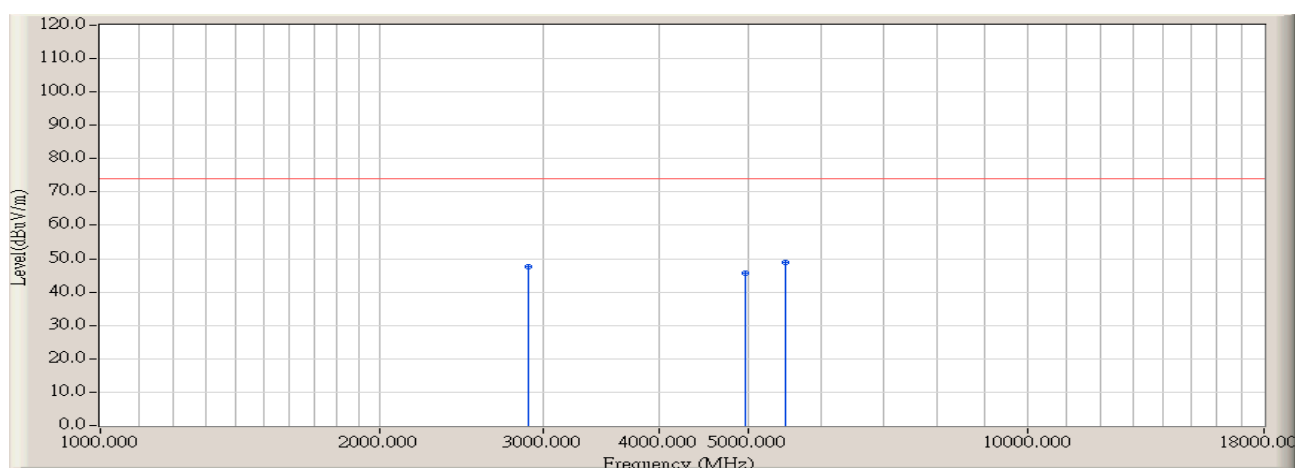


Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/17 - 15:29
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz



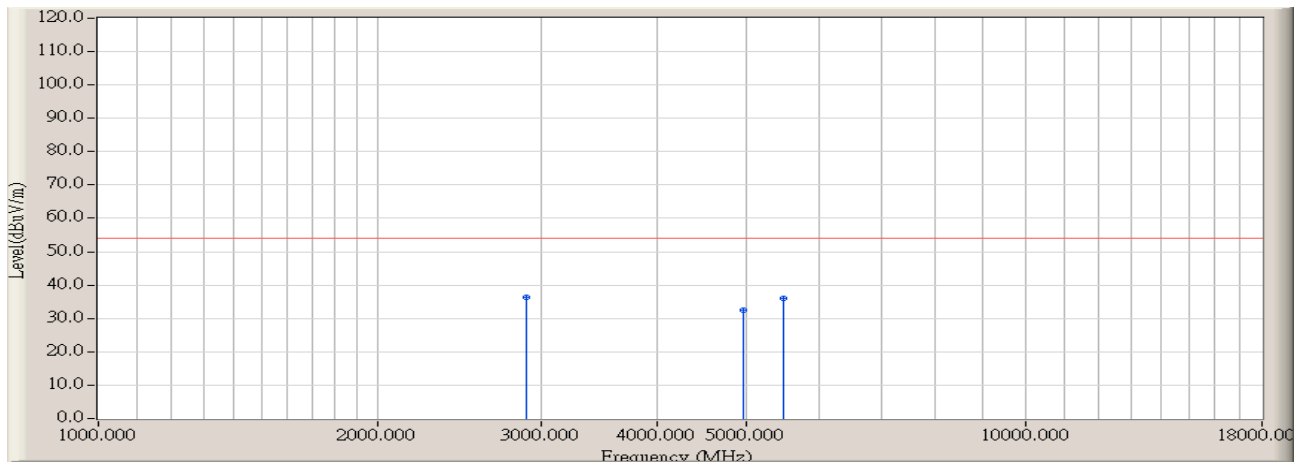
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		2785.000	-2.550	26.800	24.250	-29.720	53.970	AVERAGE	100.000	95.800
2		4371.667	1.827	26.400	28.227	-25.743	53.970	AVERAGE	103.600	184.700
3	*	5250.000	3.970	27.100	31.070	-22.900	53.970	AVERAGE	100.000	82.900

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/17 - 15:29
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz



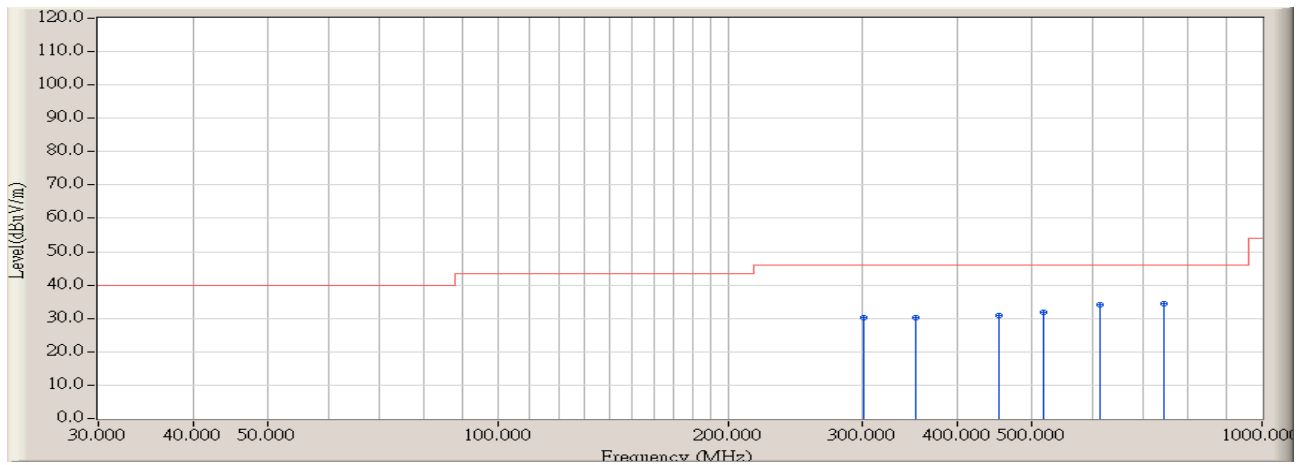
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		2898.333	-2.296	50.006	47.709	-26.261	73.970	PEAK	100.000	196.000
2		4966.667	4.073	41.720	45.793	-28.177	73.970	PEAK	104.400	165.000
3	*	5476.667	4.943	44.101	49.044	-24.926	73.970	PEAK	100.000	174.800

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/17 - 15:29
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz



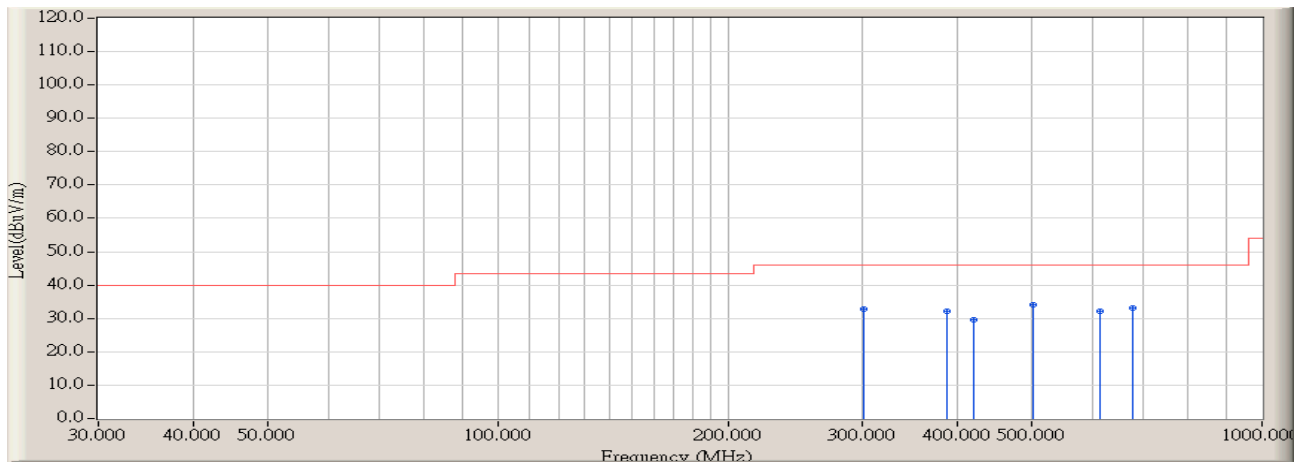
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	2898.333	-2.296	38.600	36.303	-17.667	53.970	AVERAGE	100.000	196.000
2		4966.667	4.073	28.400	32.473	-21.497	53.970	AVERAGE	104.400	165.000
3		5476.667	4.943	31.200	36.143	-17.827	53.970	AVERAGE	100.000	174.800

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/18 - 09:59
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : Notebook(Wireless)	Probe : CBL6112D_22254(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz



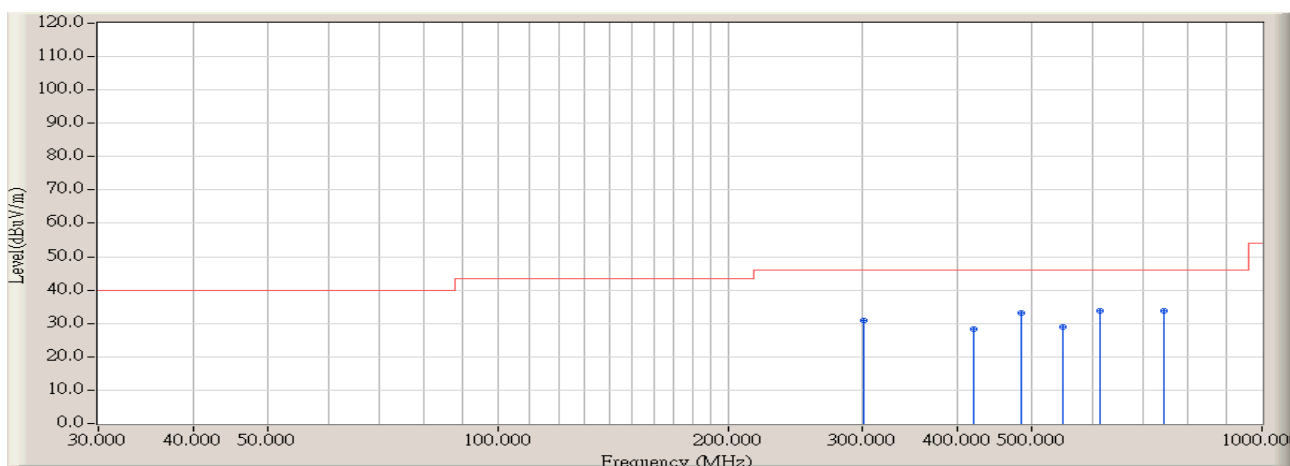
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		301.600	-7.804	37.911	30.107	-15.913	46.020	QUASIPeAK	250.000	330.000
2		351.717	-6.157	36.241	30.084	-15.936	46.020	QUASIPeAK	200.000	240.000
3		451.950	-4.254	35.124	30.870	-15.150	46.020	QUASIPeAK	132.000	350.800
4		516.617	-3.257	35.236	31.979	-14.041	46.020	QUASIPeAK	100.000	102.900
5		613.617	-1.326	35.367	34.041	-11.979	46.020	QUASIPeAK	113.300	89.100
6	*	742.950	1.198	33.317	34.515	-11.505	46.020	QUASIPeAK	110.000	85.700

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/18 - 09:59
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : Notebook(Wireless)	Probe : CBL6112D_22254(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz



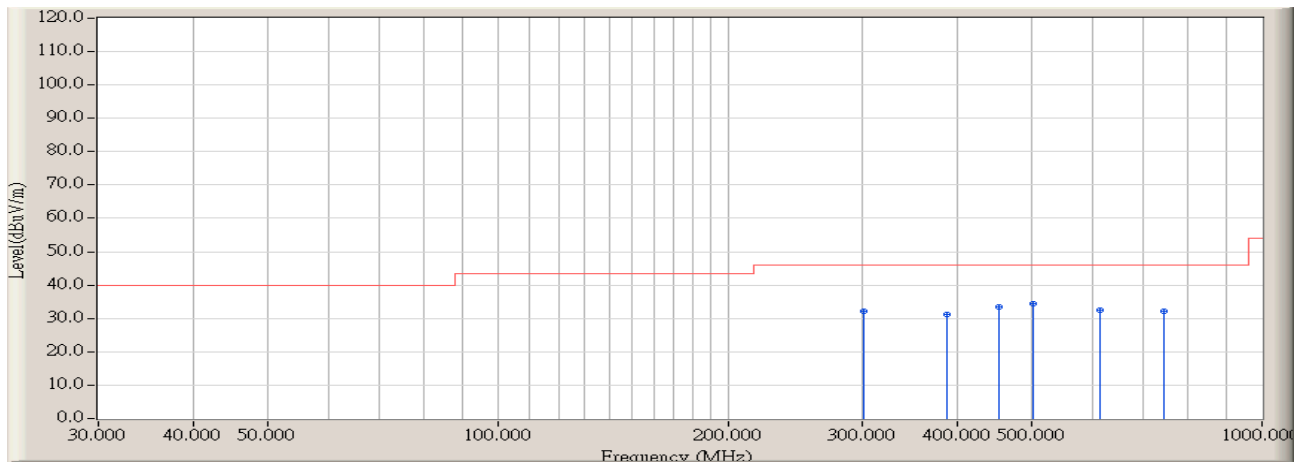
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		301.600	-7.804	40.563	32.759	-13.261	46.020	QUASIPeAK	100.000	322.000
2		387.283	-5.437	37.705	32.267	-13.753	46.020	QUASIPeAK	100.000	12.600
3		419.617	-4.633	34.086	29.453	-16.567	46.020	QUASIPeAK	100.000	160.200
4	*	502.067	-3.368	37.370	34.002	-12.018	46.020	QUASIPeAK	110.000	70.200
5		613.617	-1.326	33.537	32.211	-13.809	46.020	QUASIPeAK	100.000	315.000
6		678.283	0.125	32.980	33.105	-12.915	46.020	QUASIPeAK	120.000	316.000

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/18 - 09:59
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : Notebook(Wireless)	Probe : CBL6112D_22254(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz



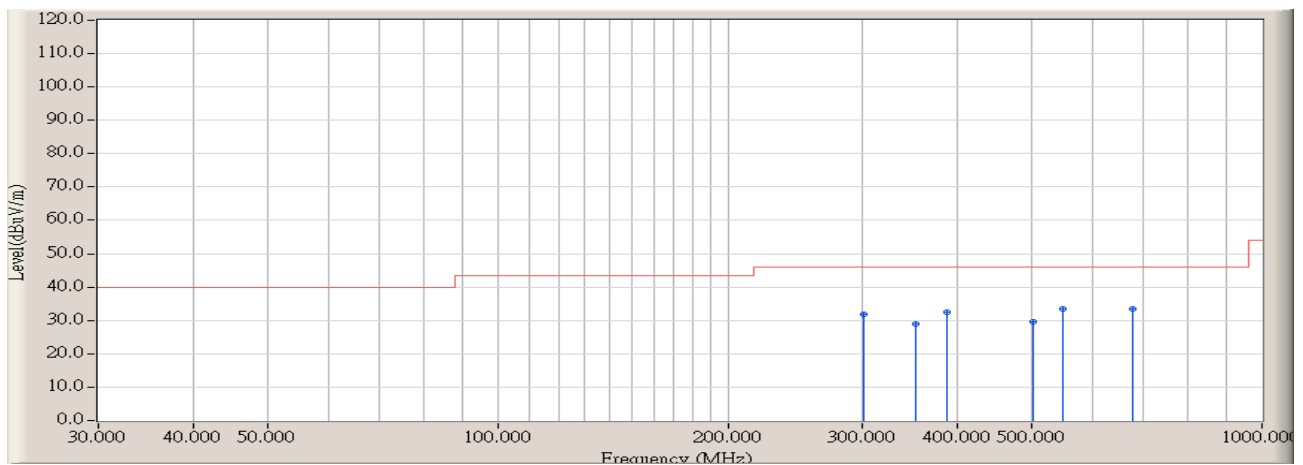
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		301.600	-7.804	38.636	30.832	-15.188	46.020	QUASIPeAK	100.000	101.100
2		419.617	-4.633	32.789	28.156	-17.864	46.020	QUASIPeAK	100.000	105.700
3		484.283	-3.543	36.737	33.194	-12.826	46.020	QUASIPeAK	100.000	316.900
4		548.950	-2.133	31.159	29.026	-16.994	46.020	QUASIPeAK	100.000	130.000
5		613.617	-1.326	35.105	33.779	-12.241	46.020	QUASIPeAK	110.000	36.000
6	*	742.950	1.198	32.699	33.897	-12.123	46.020	QUASIPeAK	100.000	10.000

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/18 - 09:59
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : Notebook(Wireless)	Probe : CBL6112D_22254(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		301.600	-7.804	40.125	32.321	-13.699	46.020	QUASIPeAK	365.100	154.400
2		387.283	-5.437	36.692	31.254	-14.766	46.020	QUASIPeAK	199.400	242.300
3		451.950	-4.254	37.648	33.394	-12.626	46.020	QUASIPeAK	100.000	96.900
4	*	502.067	-3.368	37.829	34.461	-11.559	46.020	QUASIPeAK	100.000	89.700
5		613.617	-1.326	33.782	32.456	-13.564	46.020	QUASIPeAK	100.000	77.500
6		742.950	1.198	30.921	32.119	-13.901	46.020	QUASIPeAK	150.000	310.000

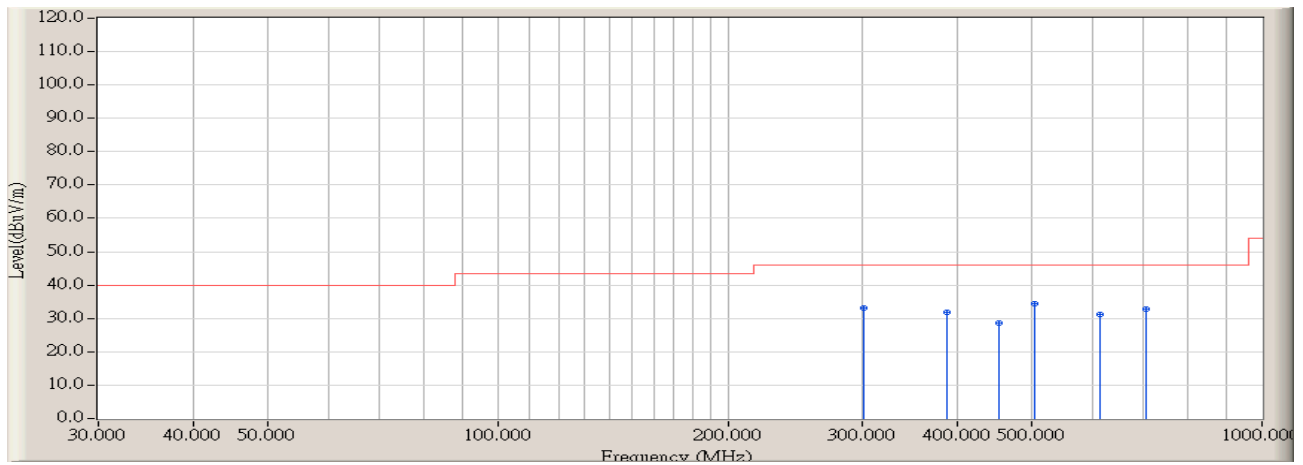
Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/18 - 09:59
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : Notebook(Wireless)	Probe : CBL6112D_22254(30-2000MHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		301.600	-7.804	39.661	31.857	-14.163	46.020	QUASIPeAK	126.400	278.600
2		351.717	-6.157	35.250	29.093	-16.927	46.020	QUASIPeAK	178.200	316.200
3		387.283	-5.437	37.947	32.509	-13.511	46.020	QUASIPeAK	163.400	76.500
4		502.067	-3.368	33.035	29.667	-16.353	46.020	QUASIPeAK	100.000	56.800
5		548.950	-2.133	35.460	33.327	-12.693	46.020	QUASIPeAK	165.400	100.500
6	*	678.283	0.125	33.448	33.573	-12.447	46.020	QUASIPeAK	100.000	196.300

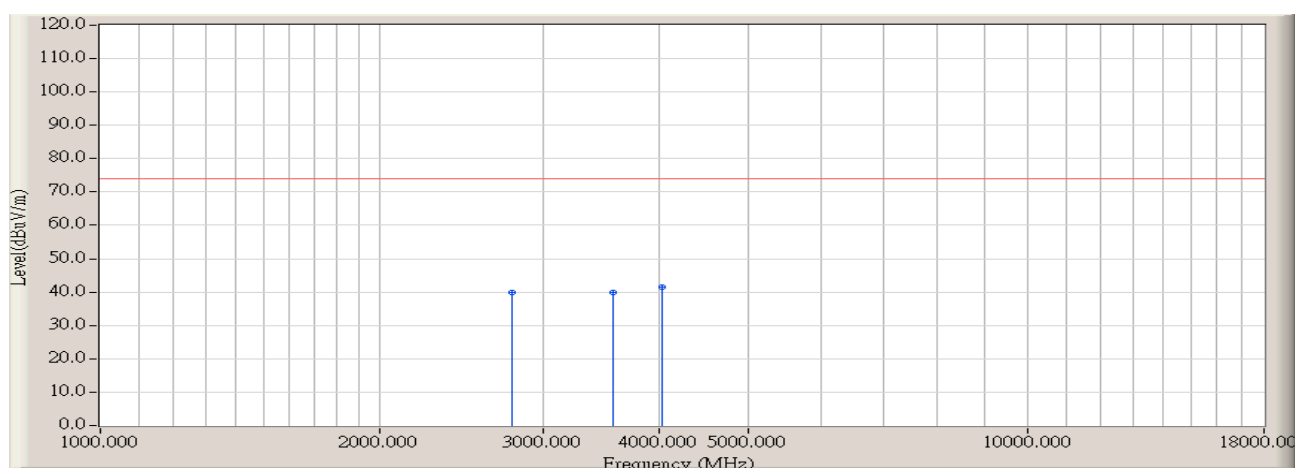


Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/18 - 09:59
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : Notebook(Wireless)	Probe : CBL6112D_22254(30-2000MHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz



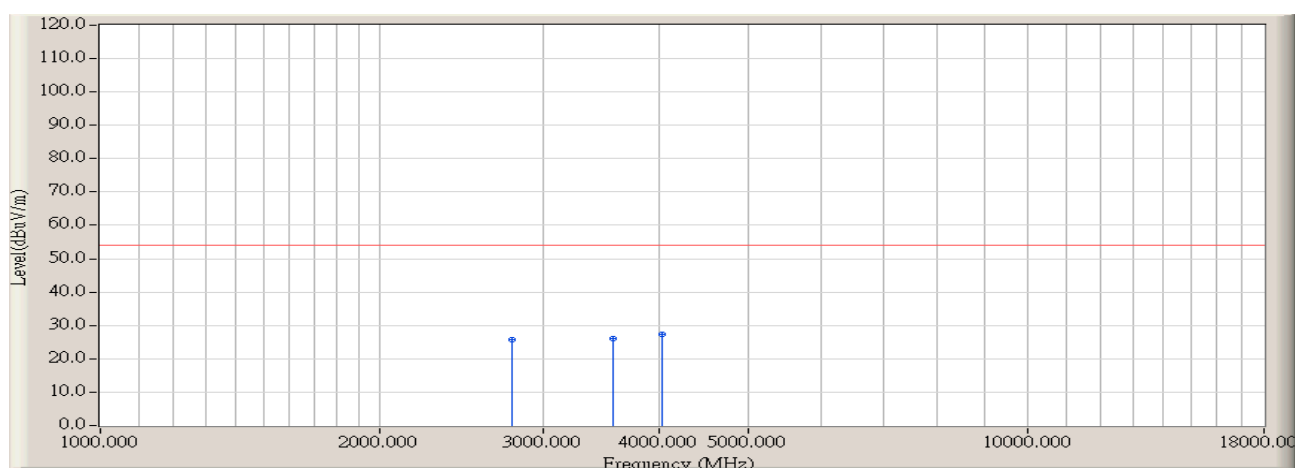
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		301.600	-7.804	41.000	33.196	-12.824	46.020	QUASIPeAK	116.500	46.600
2		387.283	-5.437	37.236	31.798	-14.222	46.020	QUASIPeAK	133.100	154.400
3		451.950	-4.254	32.739	28.485	-17.535	46.020	QUASIPeAK	100.000	341.100
4	*	503.683	-3.331	37.769	34.439	-11.581	46.020	QUASIPeAK	165.400	255.800
5		613.617	-1.326	32.446	31.120	-14.900	46.020	QUASIPeAK	204.600	177.500
6		704.150	0.462	32.451	32.913	-13.107	46.020	QUASIPeAK	175.600	243.100

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/17 - 15:29
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz



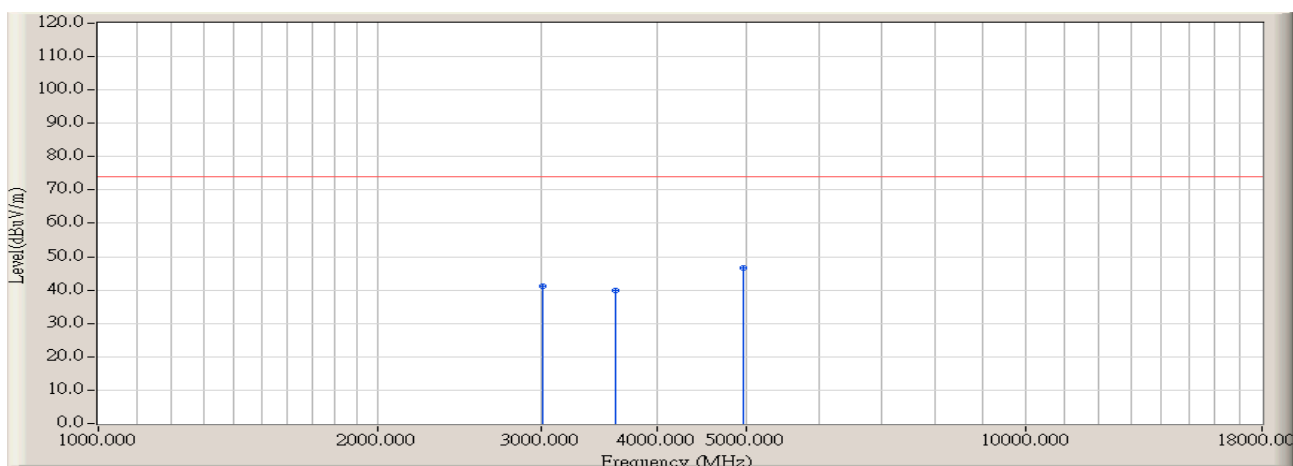
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		2785.000	-2.550	42.518	39.968	-34.002	73.970	PEAK	106.800	117.000
2		3578.333	-0.617	40.393	39.776	-34.194	73.970	PEAK	105.800	94.700
3	*	4031.667	1.097	40.324	41.421	-32.549	73.970	PEAK	106.800	274.500

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/17 - 15:29
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz



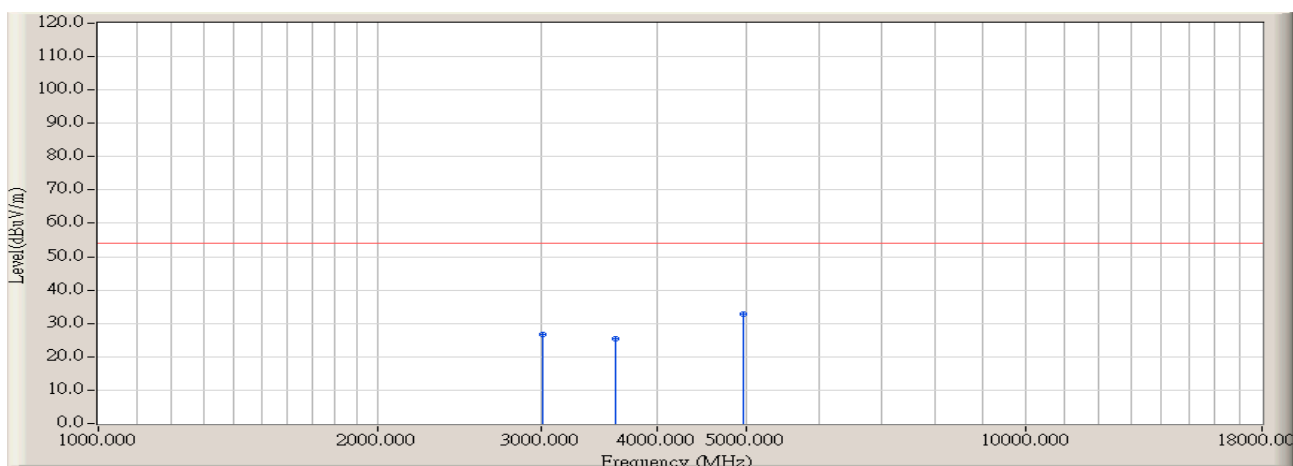
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1		2785.000	-2.550	28.200	25.650	-28.320	53.970	AVERAGE	106.800	117.000
2		3578.333	-0.617	26.800	26.183	-27.787	53.970	AVERAGE	105.800	94.700
3	*	4031.667	1.097	26.200	27.297	-26.673	53.970	AVERAGE	106.800	274.500

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/17 - 15:29
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz



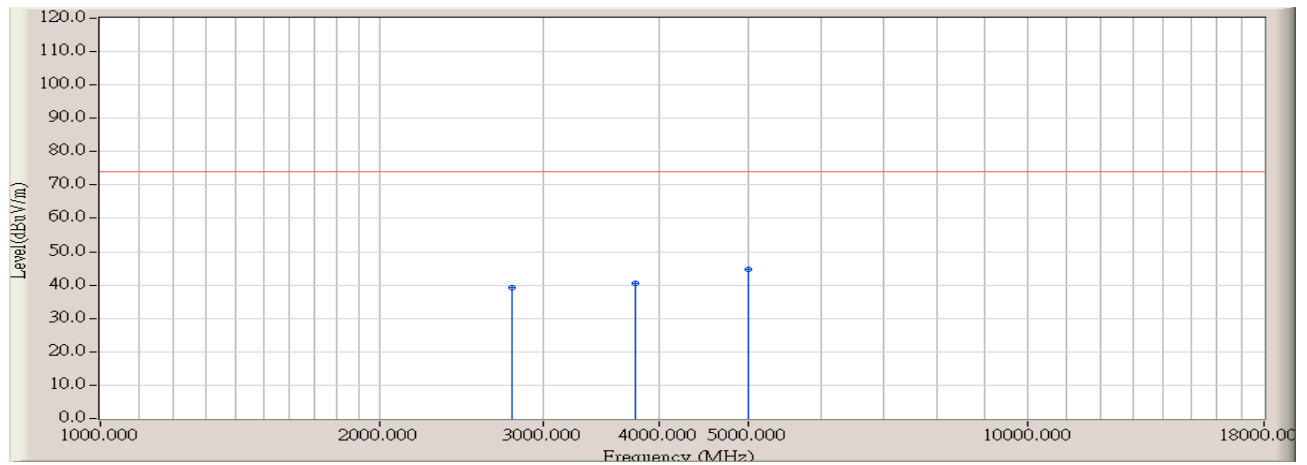
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		3011.667	-1.796	42.870	41.073	-32.897	73.970	PEAK	100.000	64.800
2		3606.667	-0.536	40.332	39.795	-34.175	73.970	PEAK	103.000	117.000
3	*	4966.667	4.073	42.588	46.661	-27.309	73.970	PEAK	106.400	263.000

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/17 - 15:29
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz



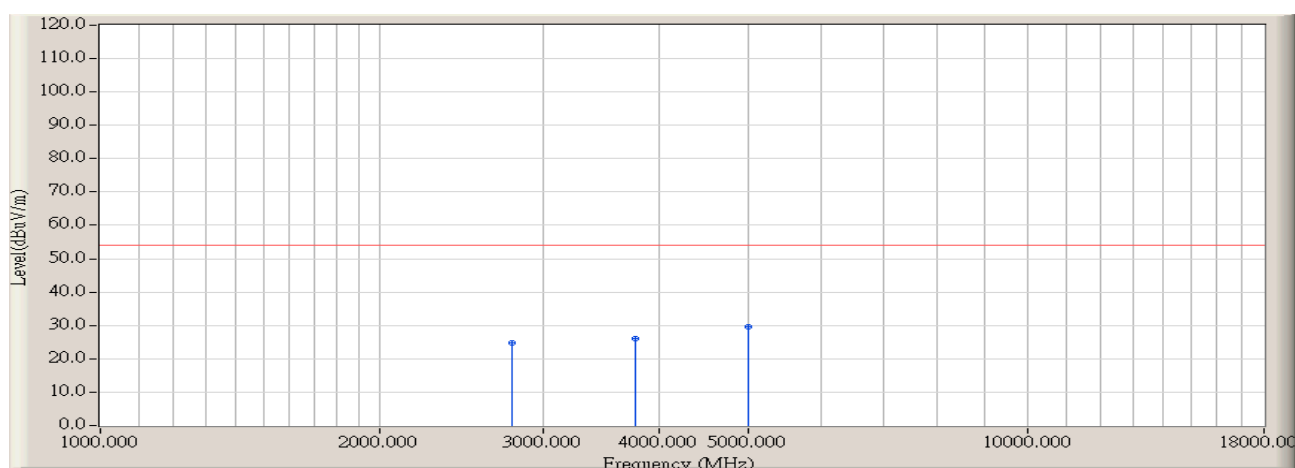
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		3011.667	-1.796	28.400	26.603	-27.367	53.970	AVERAGE	100.000	64.800
2		3606.667	-0.536	25.800	25.263	-28.707	53.970	AVERAGE	103.000	117.000
3	*	4966.667	4.073	28.600	32.673	-21.297	53.970	AVERAGE	106.400	263.000

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/17 - 15:29
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz



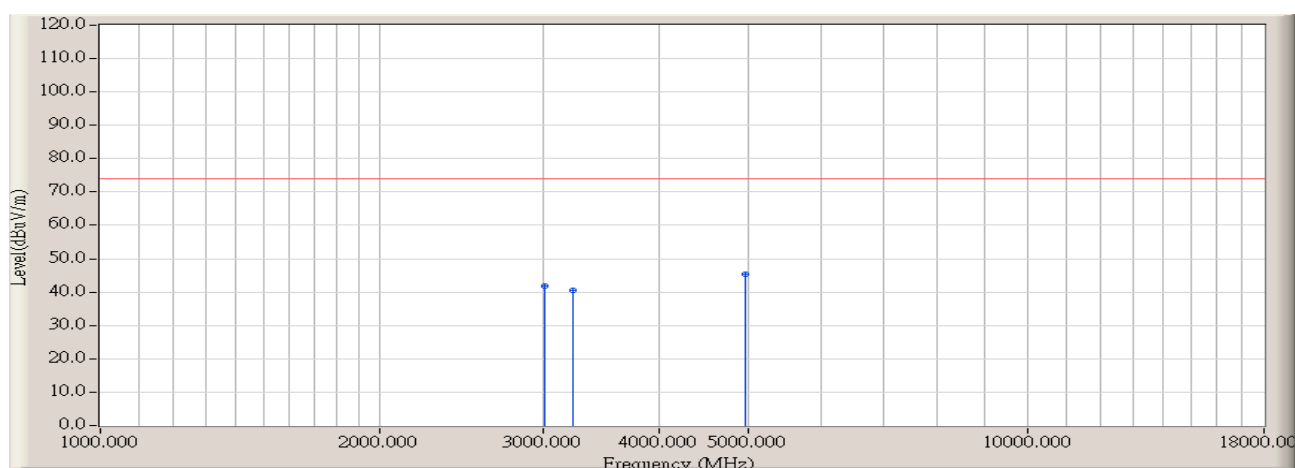
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		2785.000	-2.550	41.789	39.239	-34.731	73.970	PEAK	106.400	351.000
2		3776.667	-0.023	40.672	40.649	-33.321	73.970	PEAK	105.400	95.000
3	*	4995.000	3.880	40.802	44.682	-29.288	73.970	PEAK	100.000	164.000

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/17 - 15:29
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		2785.000	-2.550	27.400	24.850	-29.120	53.970	AVERAGE	106.400	351.000
2		3776.667	-0.023	26.000	25.977	-27.993	53.970	AVERAGE	105.400	95.000
3	*	4995.000	3.880	25.600	29.480	-24.490	53.970	AVERAGE	100.000	164.000

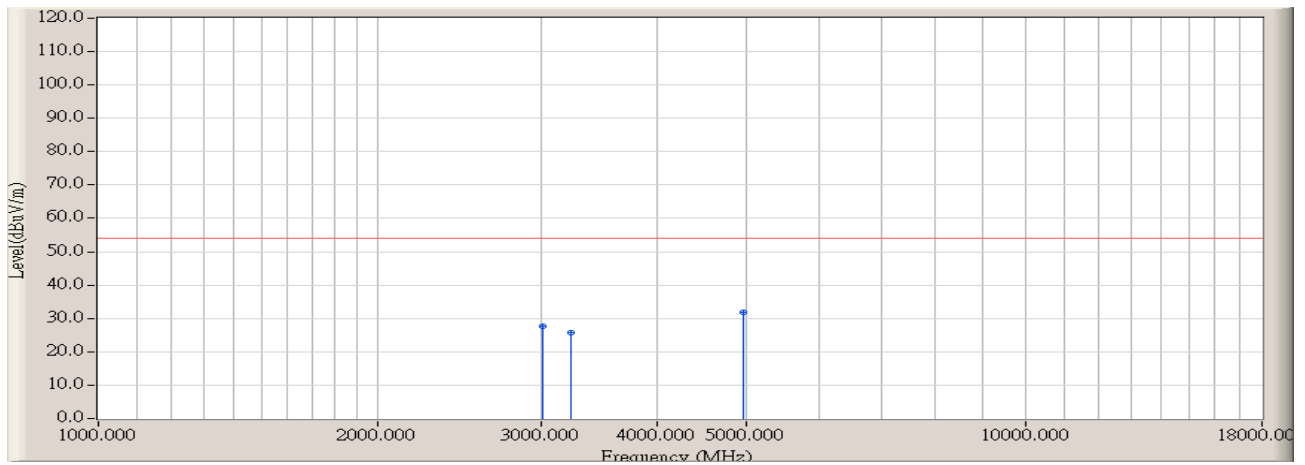
Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/17 - 15:29
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		3011.667	-1.796	43.664	41.867	-32.103	73.970	PEAK	105.400	45.800
2		3238.333	-1.743	42.150	40.407	-33.563	73.970	PEAK	100.000	325.000
3	*	4966.667	4.073	41.251	45.324	-28.646	73.970	PEAK	100.000	317.000

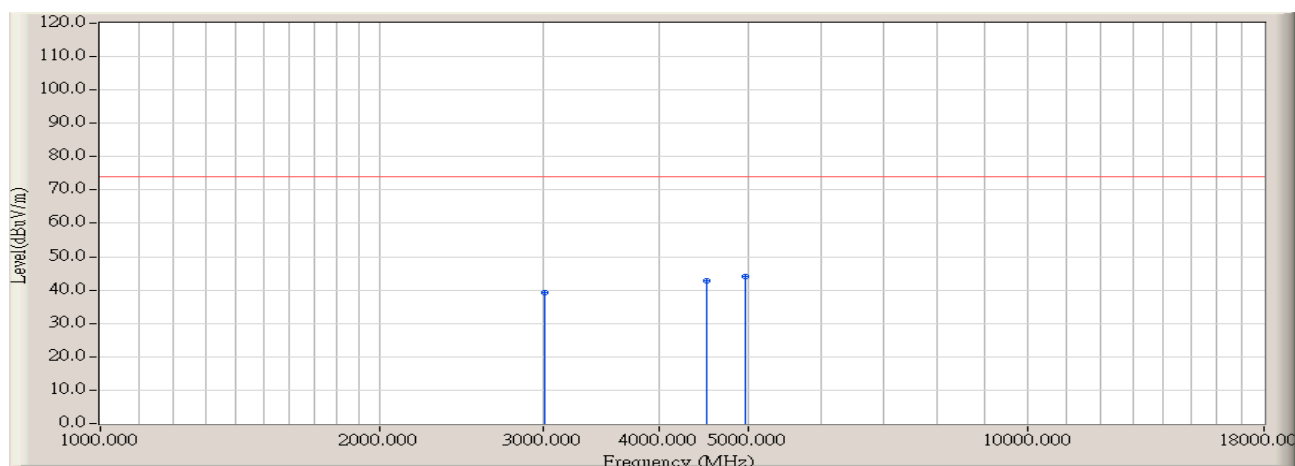


Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/17 - 15:29
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2437MHz



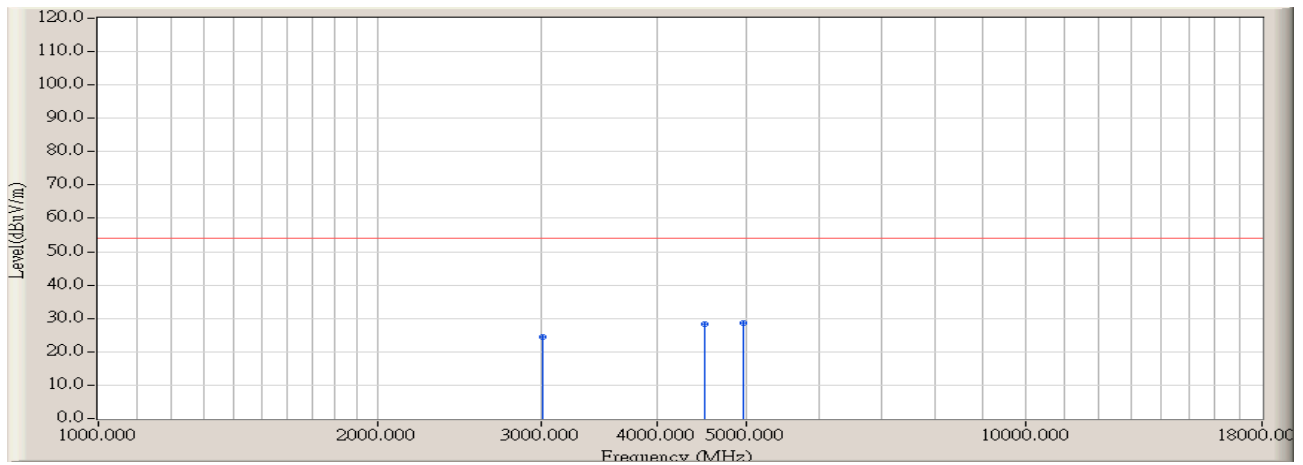
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		3011.667	-1.796	29.600	27.803	-26.167	53.970	AVERAGE	105.400	45.800
2		3238.333	-1.743	27.400	25.657	-28.313	53.970	AVERAGE	100.000	325.000
3	*	4966.667	4.073	27.900	31.973	-21.997	53.970	AVERAGE	100.000	317.000

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/17 - 15:29
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz



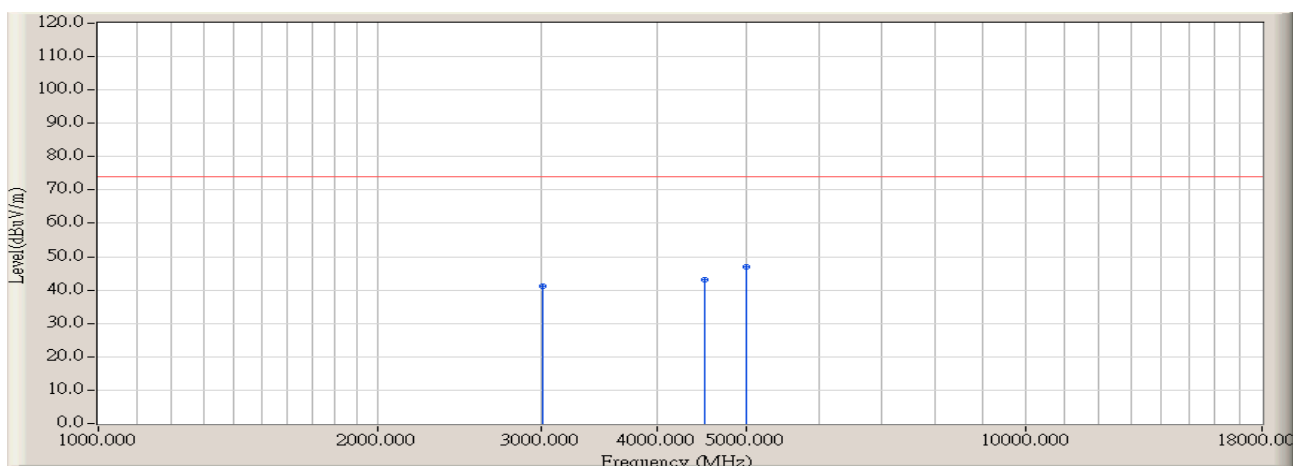
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		3011.667	-1.796	41.052	39.255	-34.715	73.970	PEAK	100.000	154.000
2		4513.333	2.547	40.294	42.841	-31.129	73.970	PEAK	105.400	247.000
3	*	4966.667	4.073	39.990	44.063	-29.907	73.970	PEAK	102.000	145.000

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/17 - 15:29
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz



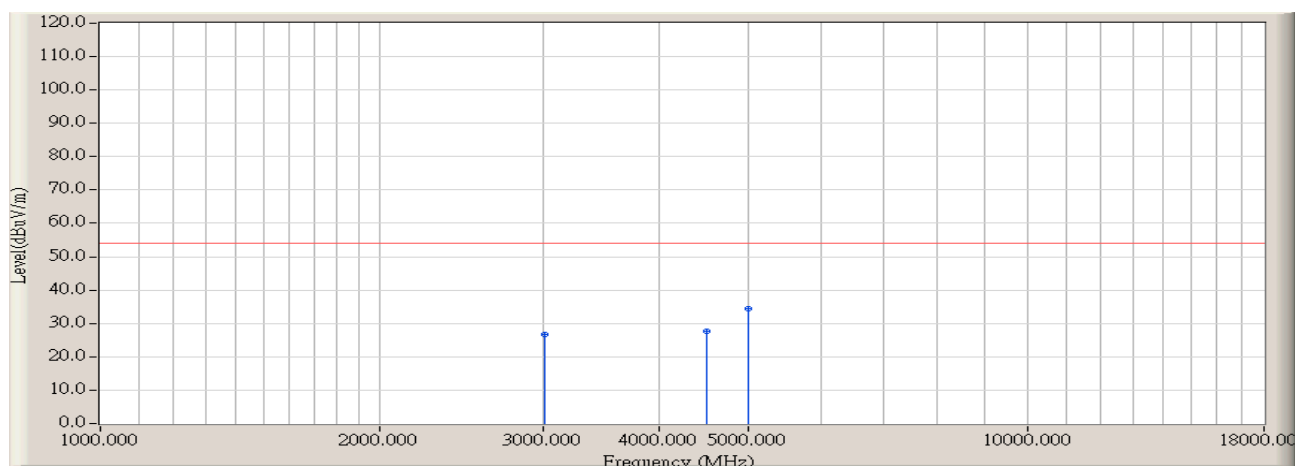
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		3011.667	-1.796	26.400	24.603	-29.367	53.970	AVERAGE	100.000	154.000
2		4513.333	2.547	25.800	28.347	-25.623	53.970	AVERAGE	105.400	247.000
3	*	4966.667	4.073	24.500	28.573	-25.397	53.970	AVERAGE	102.000	145.000

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/17 - 15:30
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		3011.667	-1.796	42.827	41.030	-32.940	73.970	PEAK	105.000	128.000
2		4513.333	2.547	40.476	43.023	-30.947	73.970	PEAK	103.600	119.000
3	*	4995.000	3.880	42.949	46.829	-27.141	73.970	PEAK	100.000	184.000

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/17 - 15:30
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1		3011.667	-1.796	28.400	26.603	-27.367	53.970	AVERAGE	105.000	128.000
2		4513.333	2.547	25.100	27.647	-26.323	53.970	AVERAGE	103.600	119.000
3	*	4995.000	3.880	30.600	34.480	-19.490	53.970	AVERAGE	100.000	184.000

## 5. RF Antenna Conducted Spurious

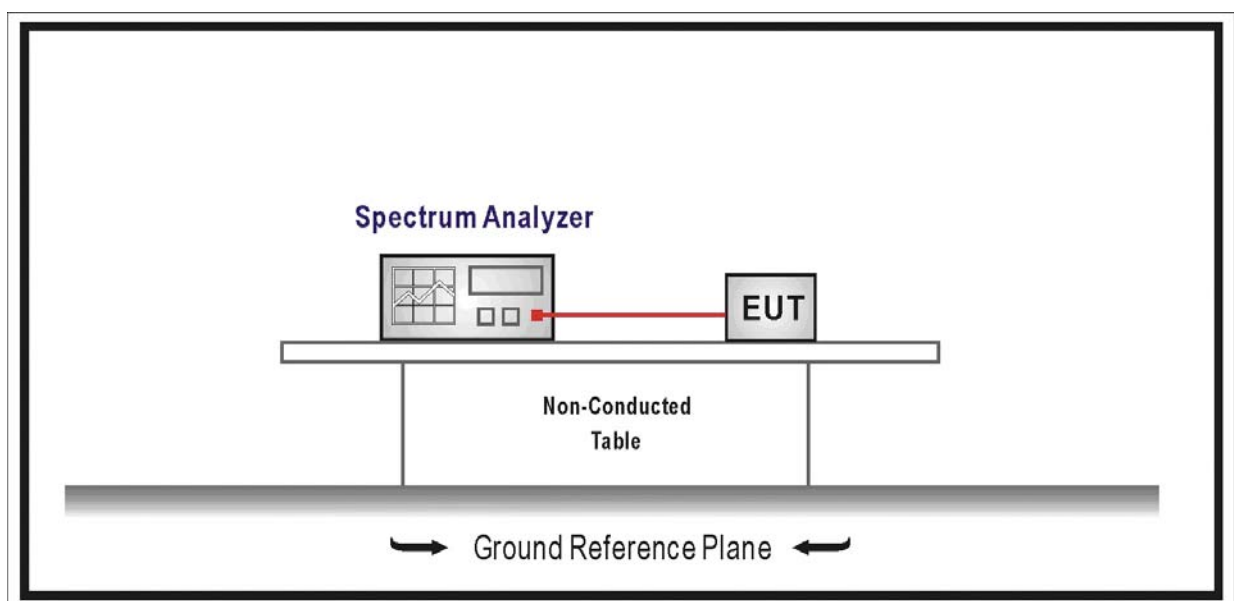
### 5.1. Test Equipment

RF Antenna Conducted Spurious / AC-4

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2008/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2008/03/09

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.

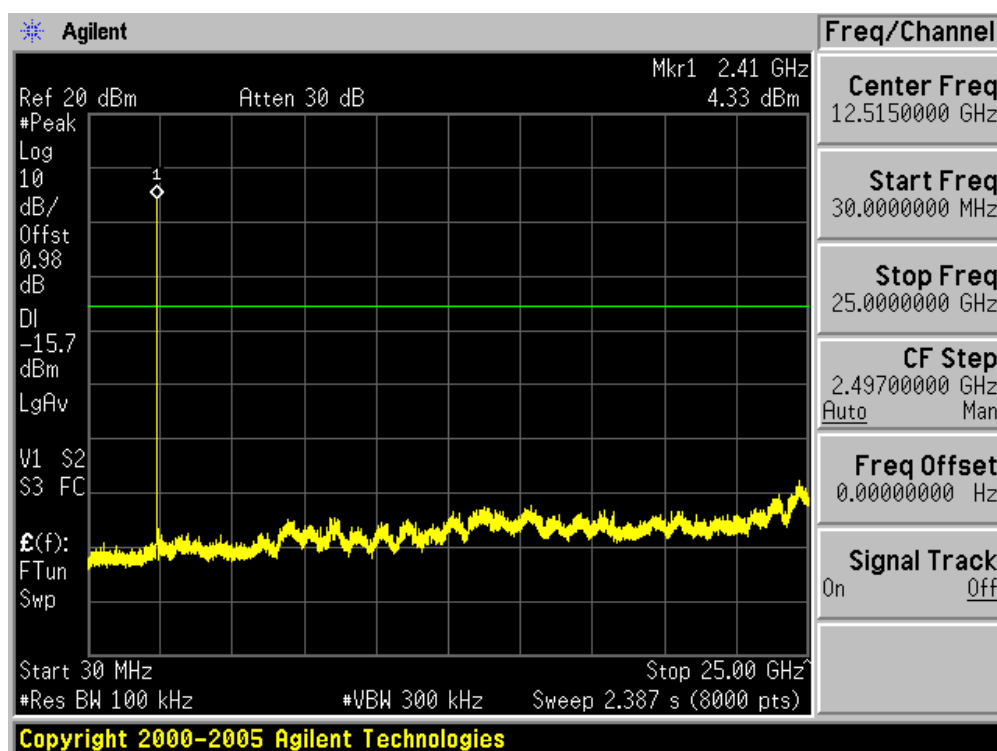
#### **5.5. Uncertainty**

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

## 5.6. Test Result

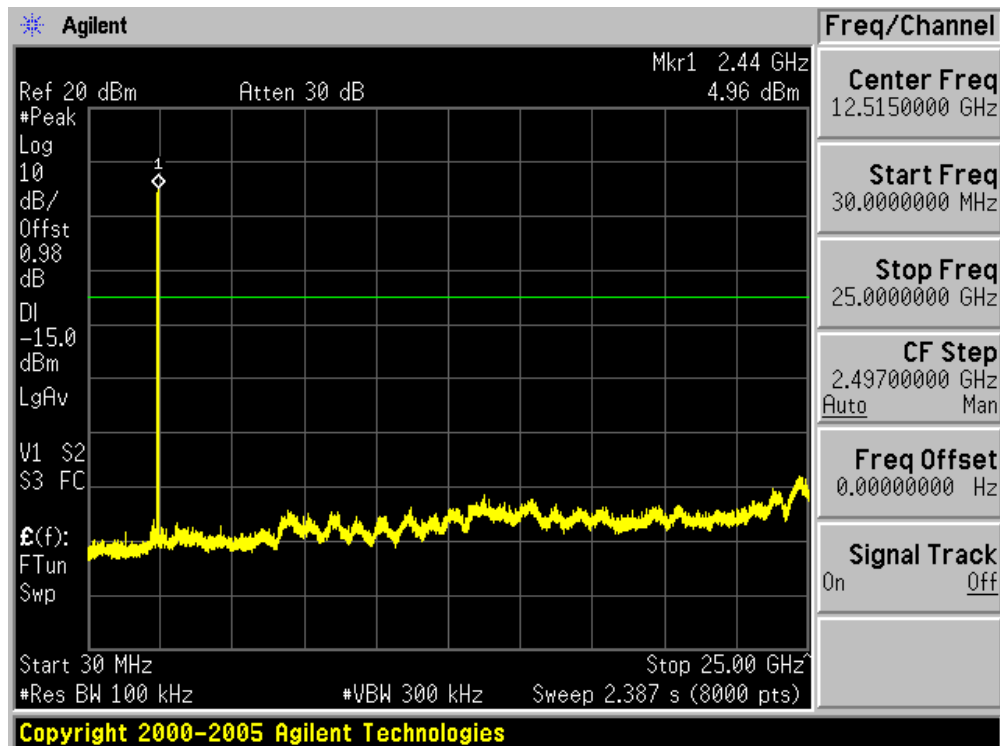
Product	:	Notebook P.C.
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b

Channel 01 (2412MHz)

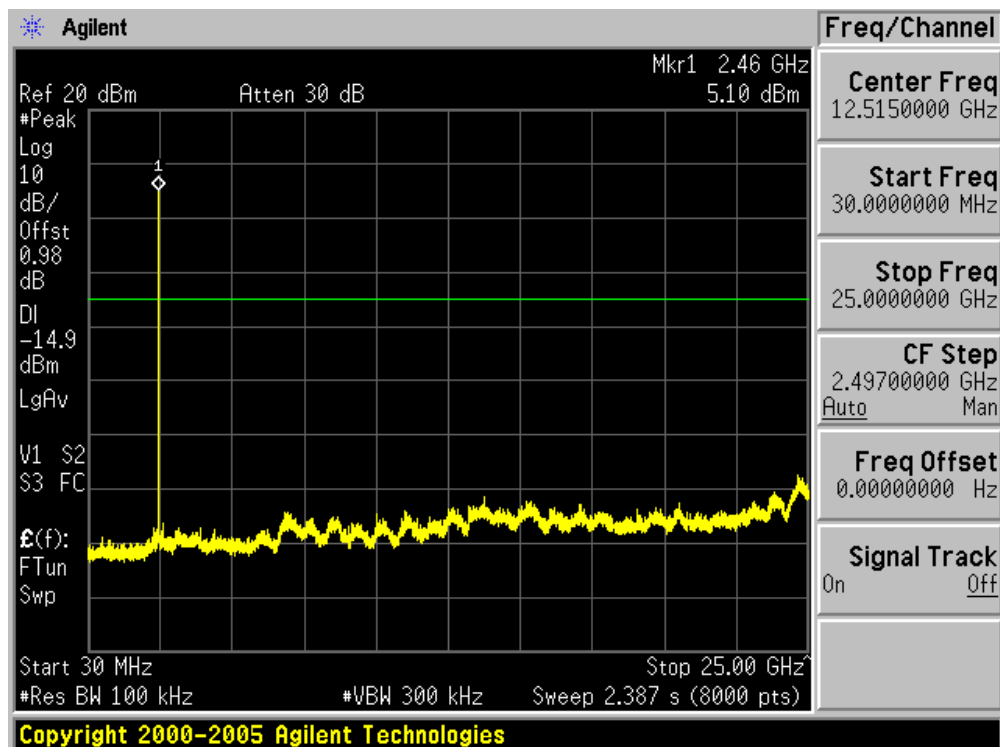




### Channel 06 (2437MHz)

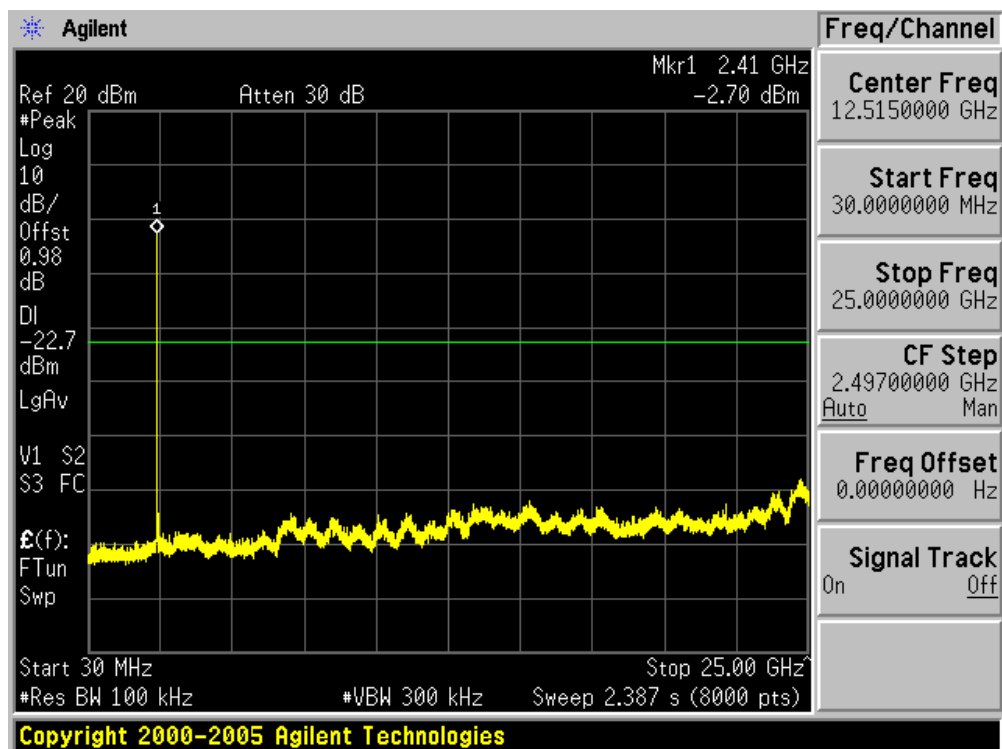


### Channel 11 (2462MHz)

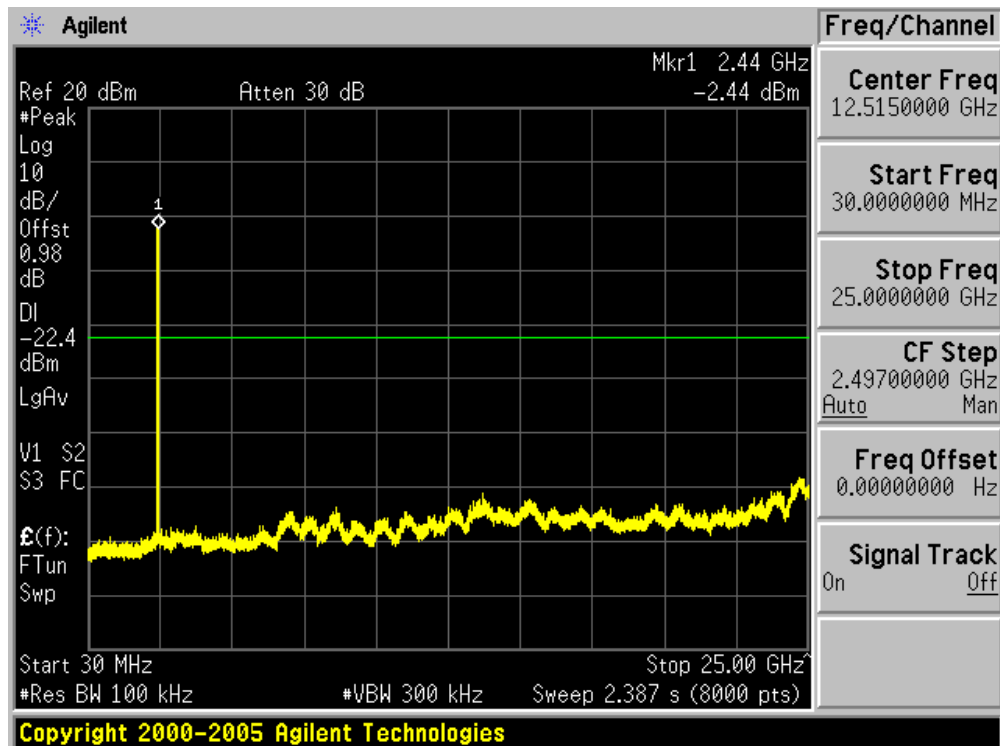


Product	:	Notebook P.C.
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11g

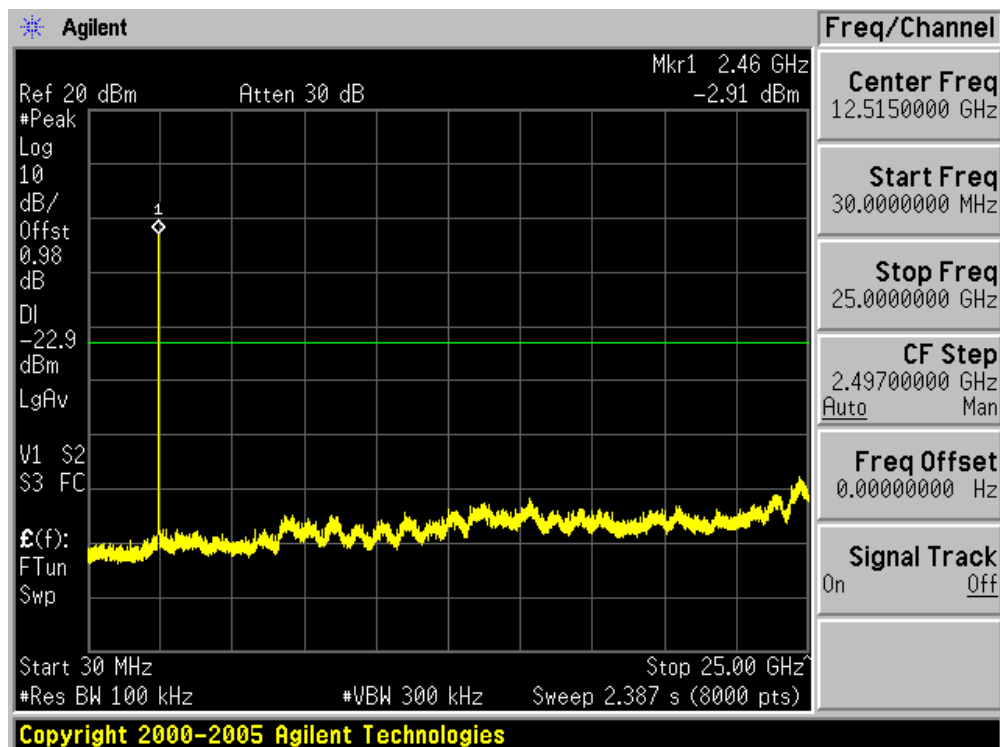
## Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



## 6. Radiated Emission Band Edge

### 6.1. Test Equipment

☒ Radiated Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4408B	MY45102679	2008/06/28
EMI Test Receiver	R&S	ESCI	100573	2008/05/10
Preamplifier	Quietek	AP-025C	QT-AP003	2007/11/25
Preamplifier	Quietek	AP-180C	CHM-0602012	2007/11/25
Bilog Type Antenna	Schaffner	CBL6112B	2932	2007/11/22
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2008/06/28
50ohm Coaxial Switch	Anritsu	MP59B	6200447304	2007/11/25
Coaxial Cable	Huber+Suhner	AC2-C	04	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH002	2008/03/31

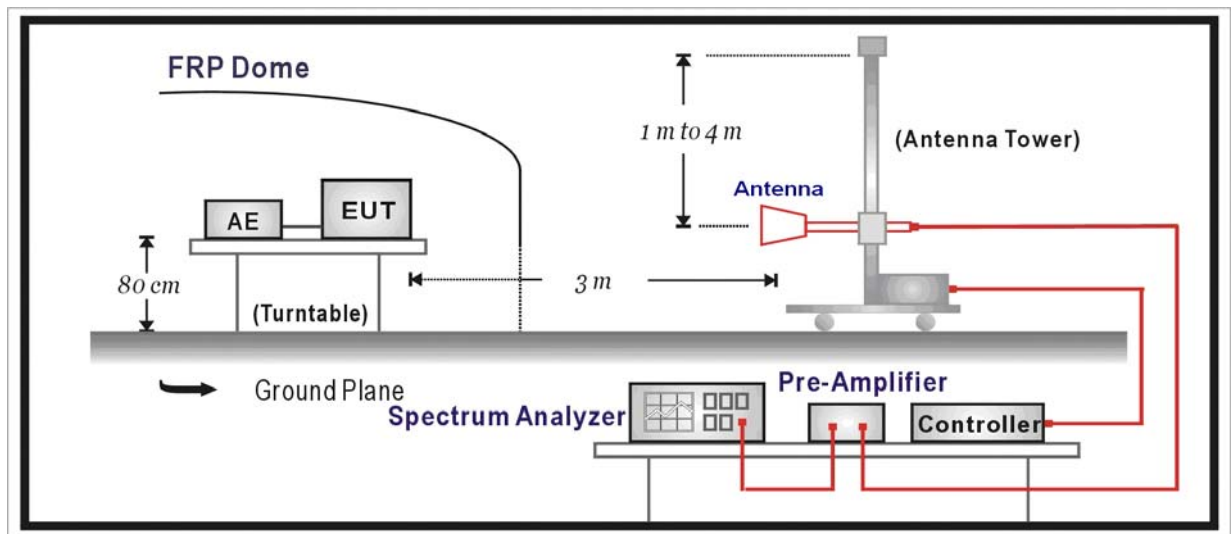
☐ Radiated Emission / AC-3

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2008/04/24
EMI Test Receiver	R&S	ESCI	100176	2007/11/15
Preamplifier	Quietek	AP-025C	QT-AP004	2007/11/25
Preamplifier	Quietek	AP-180C	CHM-0602012	2007/11/25
Bilog Type Antenna	Schaffner	CBL6112D	22254	2007/11/22
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2008/06/28
50ohm Coaxial Switch	Anritsu	MP59B	6200464463	2007/11/25
Coaxial Cable	Huber+Suhner	AC2-C	05	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH003	2008/03/31

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

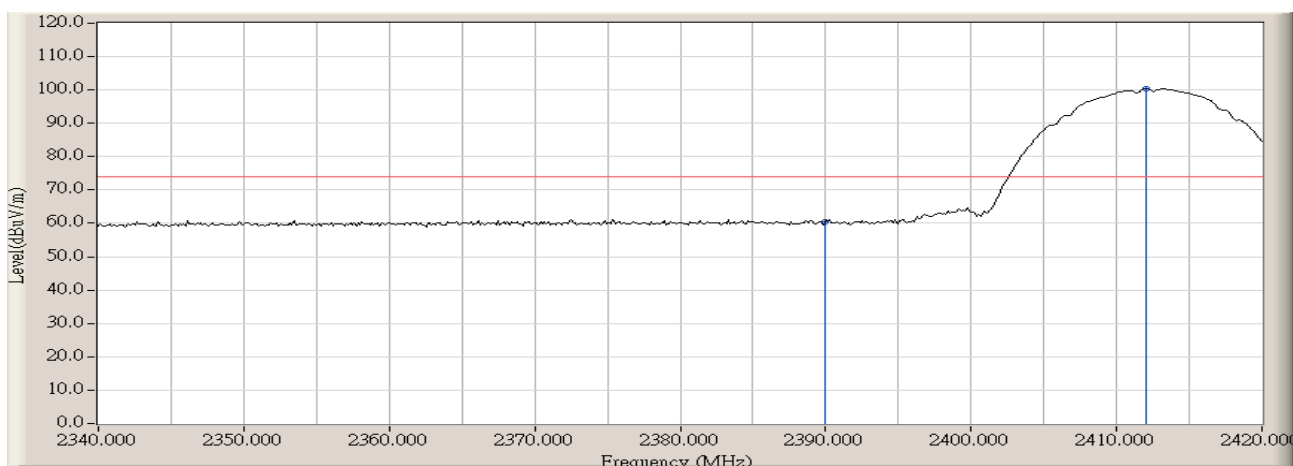
The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum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

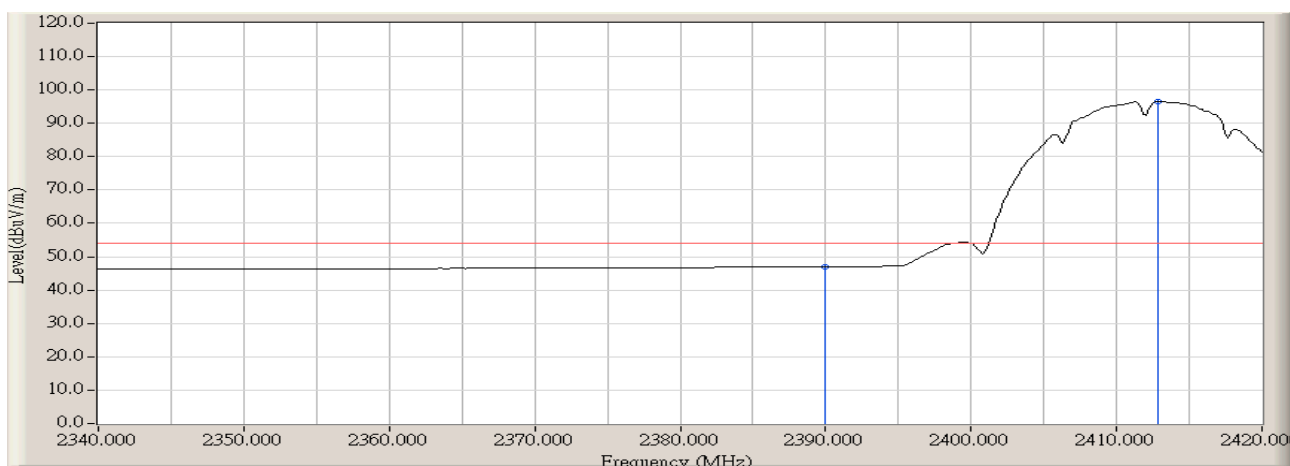
## 6.6. Test Result

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/11 - 09:32
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz



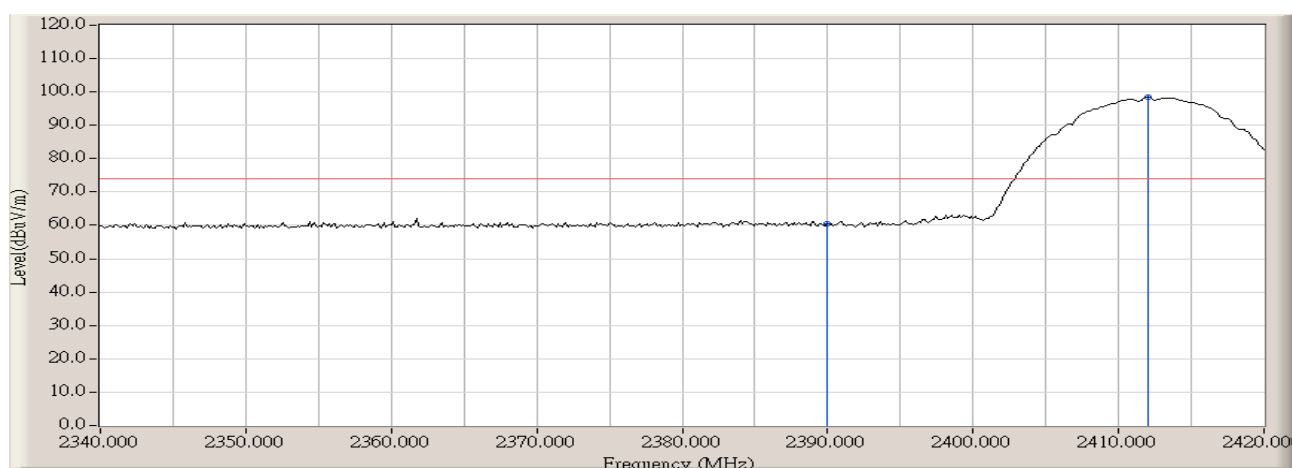
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	27.688	60.410	-13.560	73.970	PEAK
2	*	2412.000	32.731	67.641	100.373	N/A	N/A	PEAK

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/11 - 09:33
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	14.153	46.875	-7.095	53.970	AVERAGE
2	*	2412.800	32.733	63.835	96.568	N/A	N/A	AVERAGE

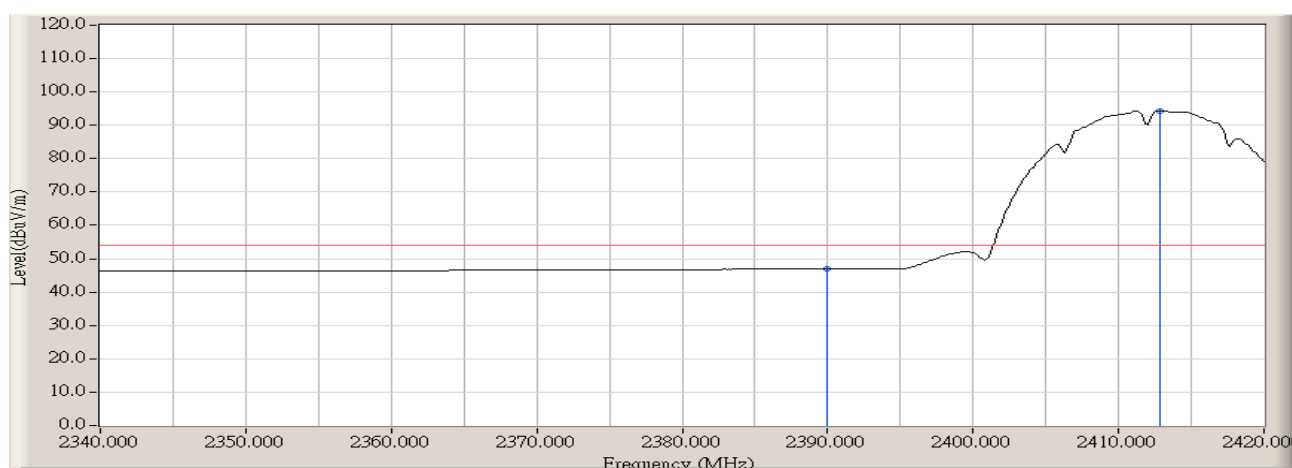
Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/11 - 09:36
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	27.802	60.524	-13.446	73.970	PEAK
2	*	2412.000	32.731	65.628	98.360	N/A	N/A	PEAK

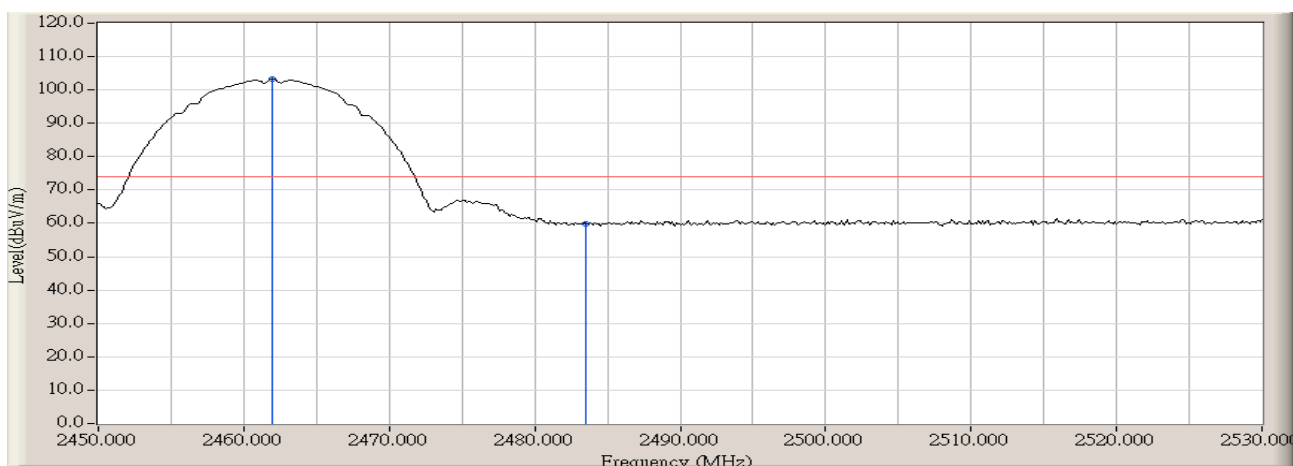


Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/11 - 09:37
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz



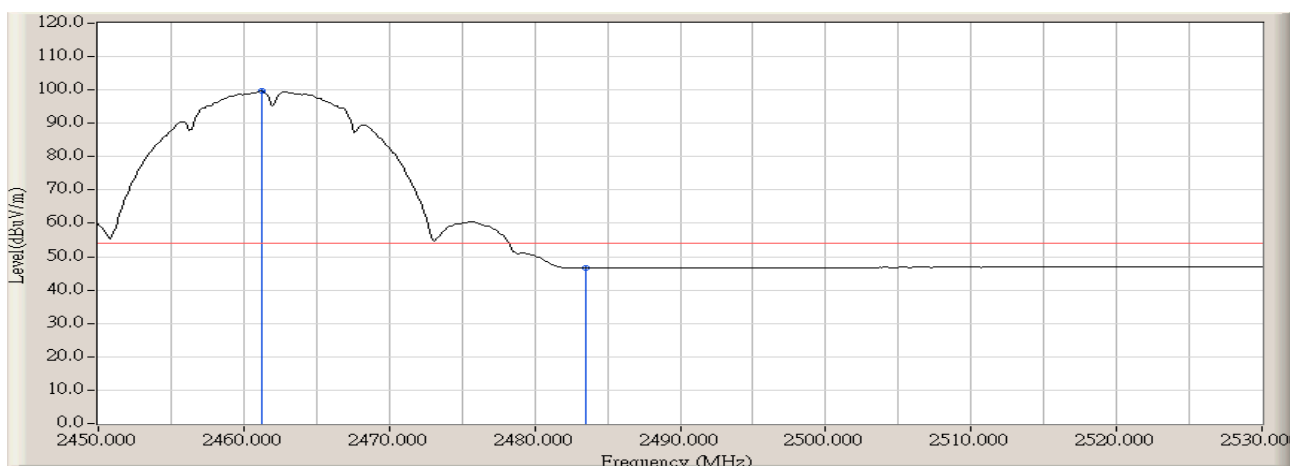
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	14.171	46.893	-7.077	53.970	AVERAGE
2	*	2412.800	32.733	61.682	94.415	N/A	N/A	AVERAGE

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/11 - 09:41
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz



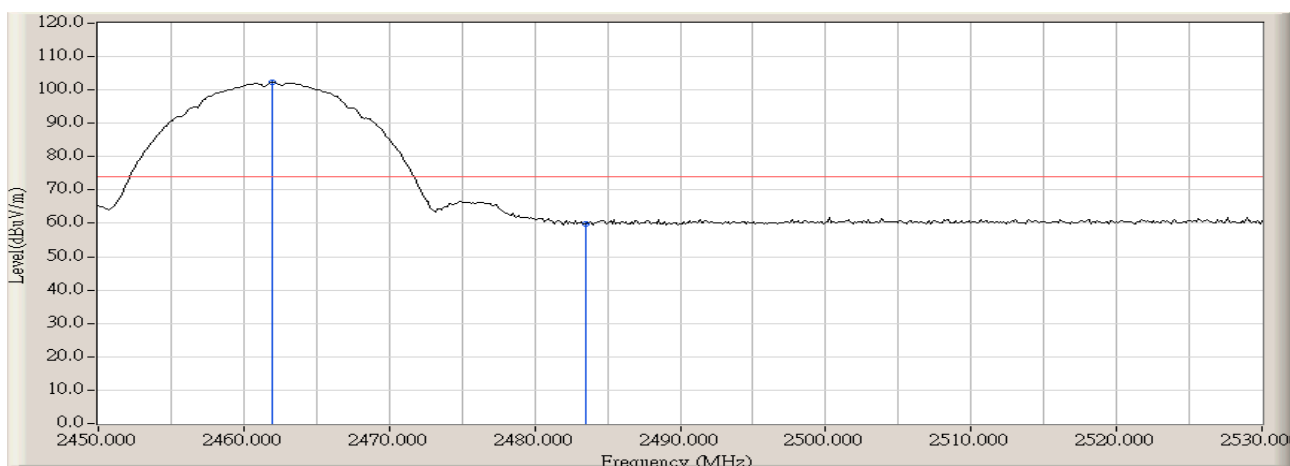
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2462.000	32.790	70.482	103.272	N/A	N/A	PEAK
2		2483.500	32.787	26.982	59.769	-14.201	73.970	PEAK

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/11 - 09:42
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz



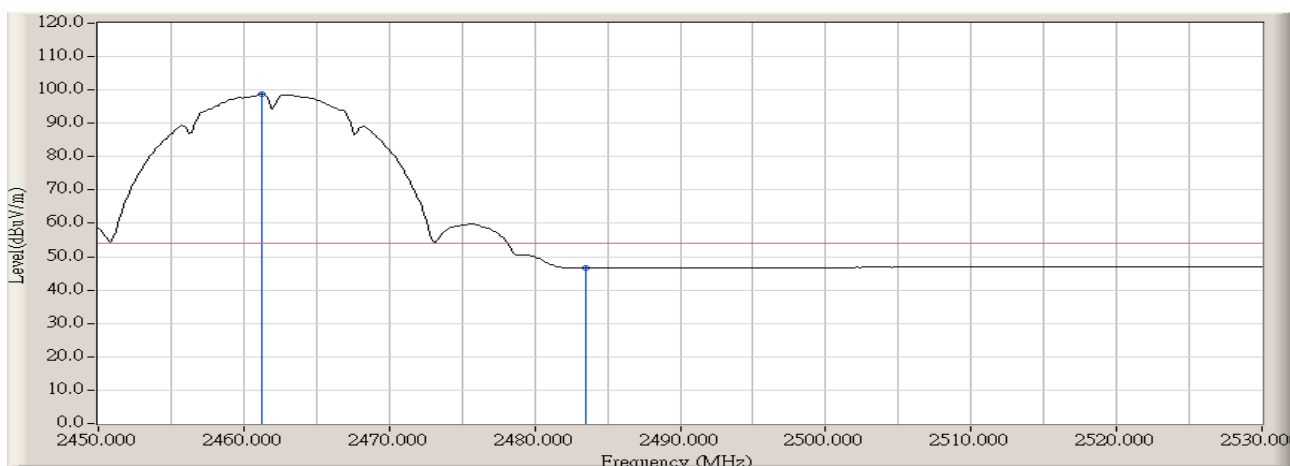
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.200	32.790	66.810	99.600	N/A	N/A	AVERAGE
2		2483.500	32.787	13.837	46.624	-7.346	53.970	AVERAGE

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/11 - 09:48
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz



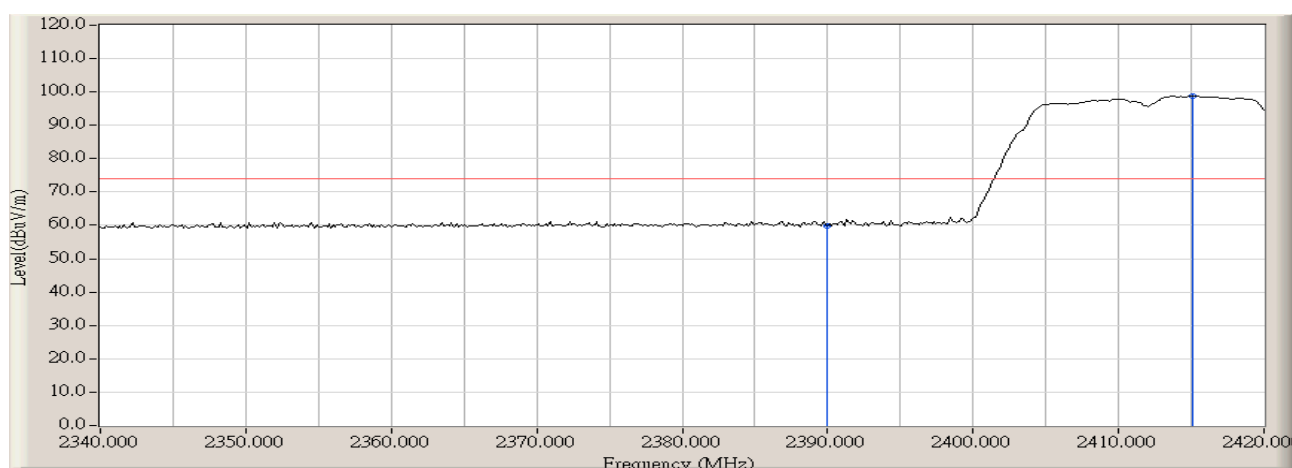
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2462.000	32.790	69.555	102.345	N/A	N/A	PEAK
2		2483.500	32.787	27.118	59.905	-14.065	73.970	PEAK

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/11 - 09:50
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz



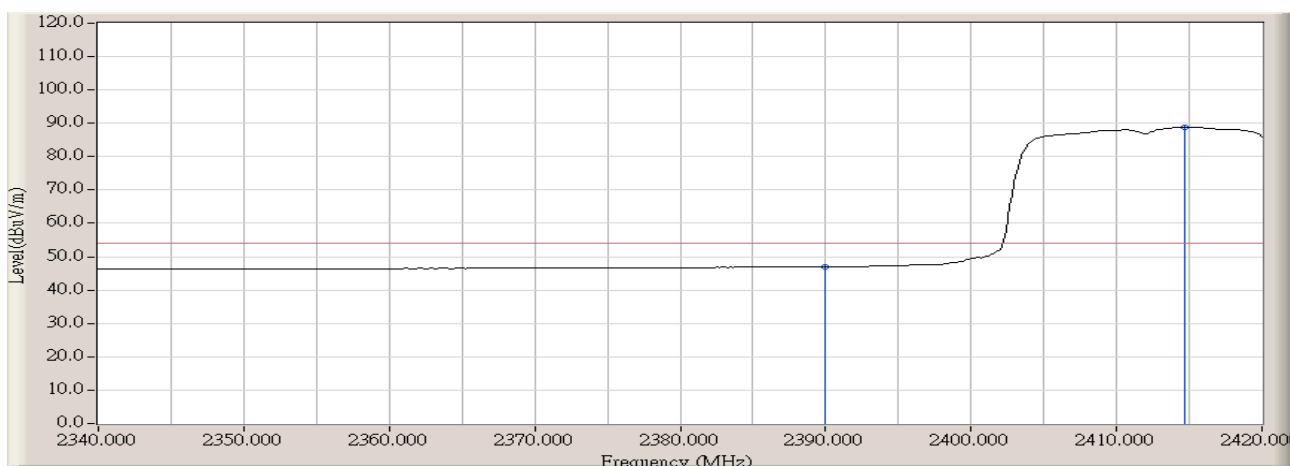
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.200	32.790	65.921	98.711	N/A	N/A	AVERAGE
2		2483.500	32.787	13.835	46.622	-7.348	53.970	AVERAGE

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/11 - 09:54
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz



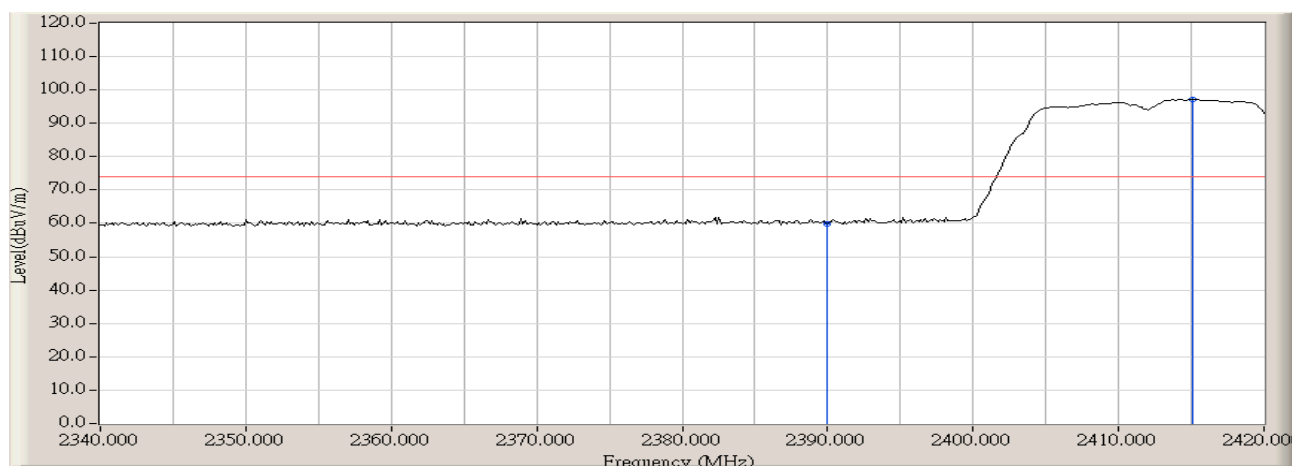
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	27.138	59.860	-14.110	73.970	PEAK
2	*	2415.067	32.738	66.052	98.789	N/A	N/A	PEAK

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/11 - 09:55
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	14.255	46.977	-6.993	53.970	AVERAGE
2	*	2414.667	32.737	56.152	88.888	N/A	N/A	AVERAGE

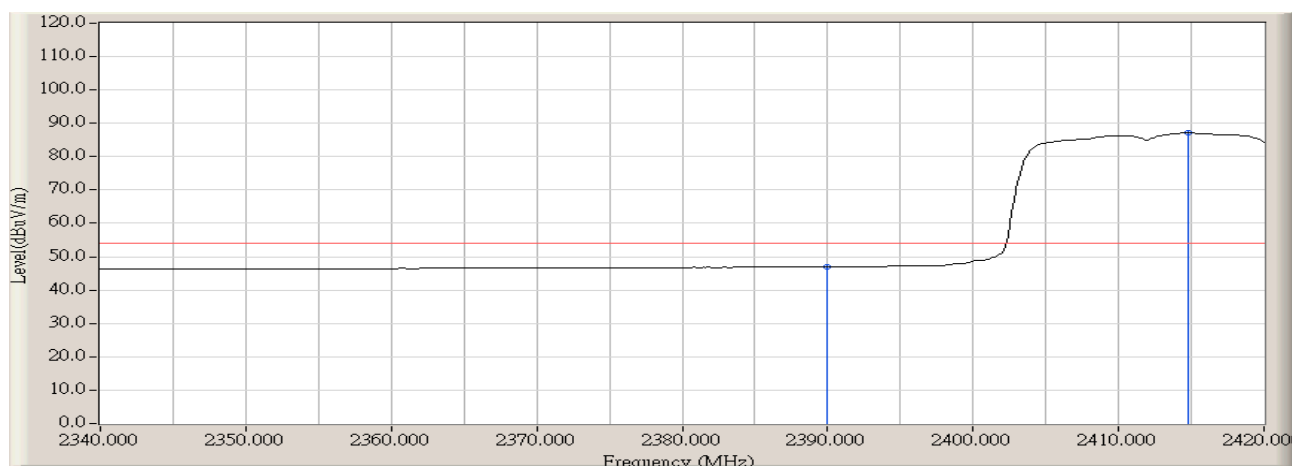
Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/11 - 09:58
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	27.231	59.953	-14.017	73.970	PEAK
2	*	2415.067	32.738	64.449	97.186	N/A	N/A	PEAK

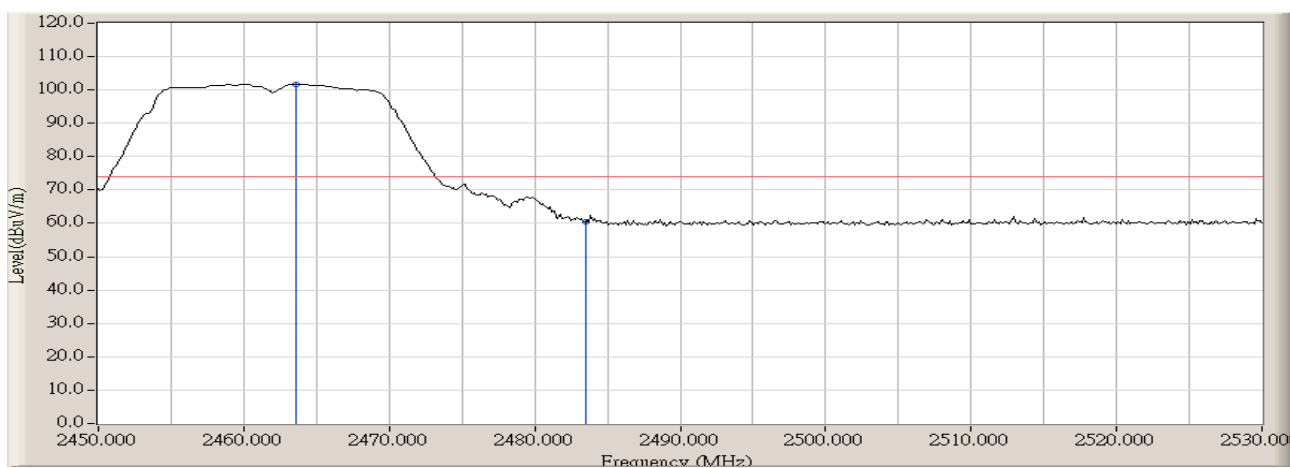


Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/11 - 09:58
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz



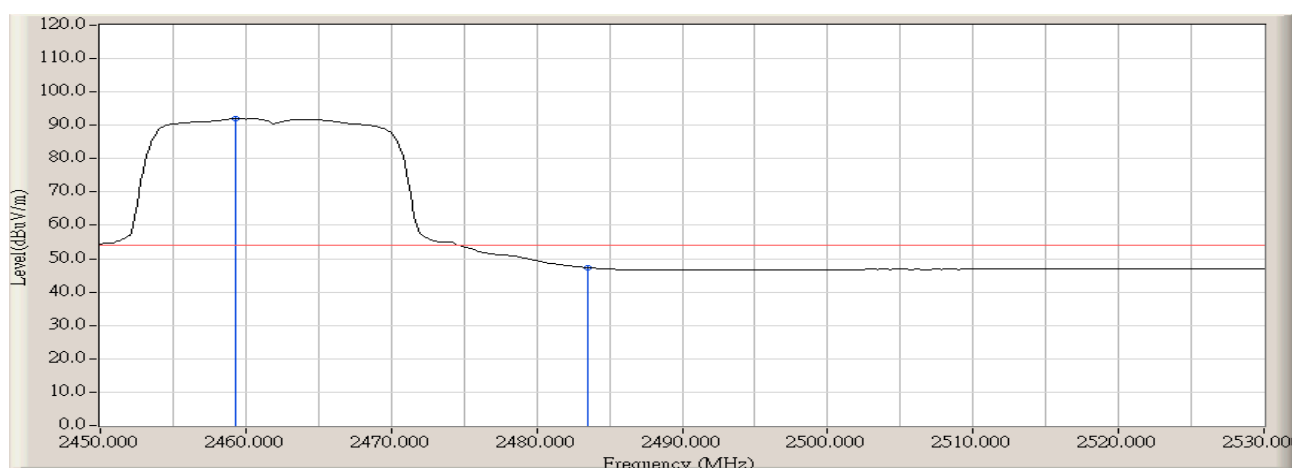
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	14.222	46.944	-7.026	53.970	AVERAGE
2	*	2414.800	32.737	54.421	87.158	N/A	N/A	AVERAGE

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/11 - 10:02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz



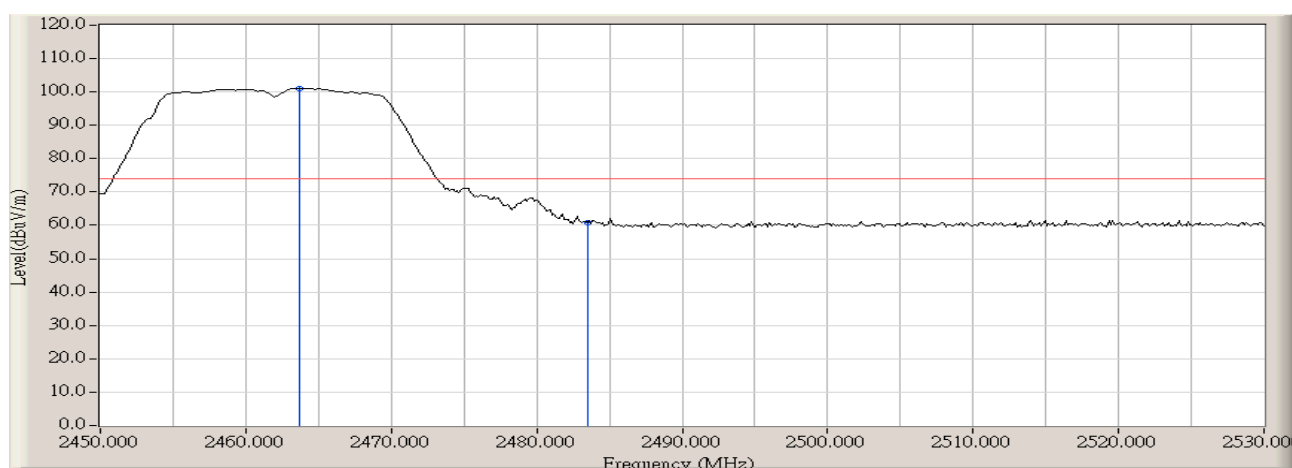
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.600	32.790	68.992	101.782	N/A	N/A	PEAK
2		2483.500	32.787	27.654	60.441	-13.529	73.970	PEAK

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/11 - 10:02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz



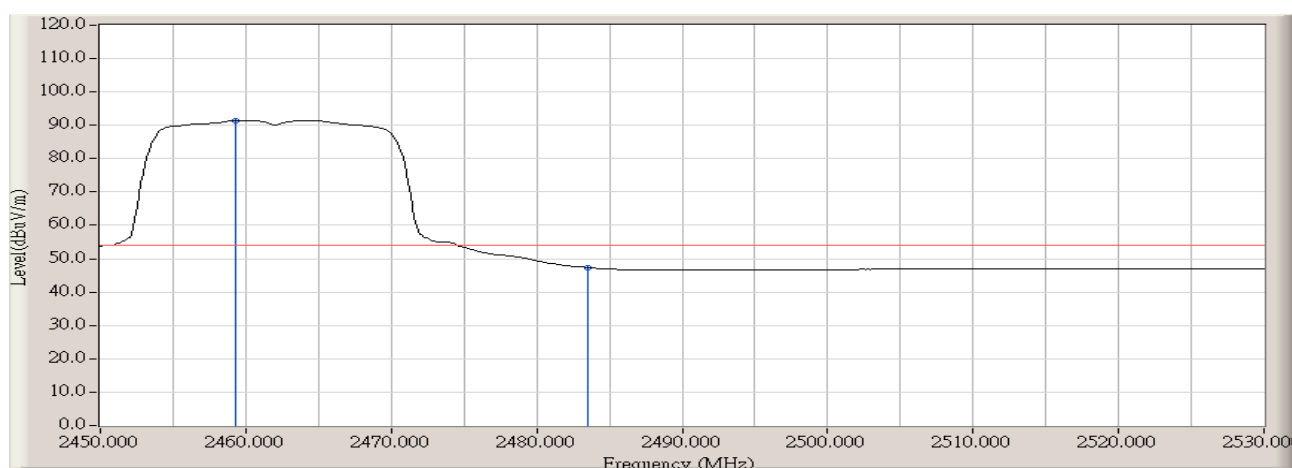
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2459.333	32.788	59.222	92.010	N/A	N/A	AVERAGE
2		2483.500	32.787	14.530	47.317	-6.653	53.970	AVERAGE

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/11 - 10:05
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.733	32.790	68.367	101.157	N/A	N/A	PEAK
2		2483.500	32.787	28.117	60.904	-13.066	73.970	PEAK

Engineer : Robin	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/11 - 10:06
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : Notebook(Wireless)	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC 120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2459.333	32.788	58.650	91.438	N/A	N/A	AVERAGE
2		2483.500	32.787	14.561	47.348	-6.622	53.970	AVERAGE

## 7. Operation Frequency Range of 20dB Bandwidth

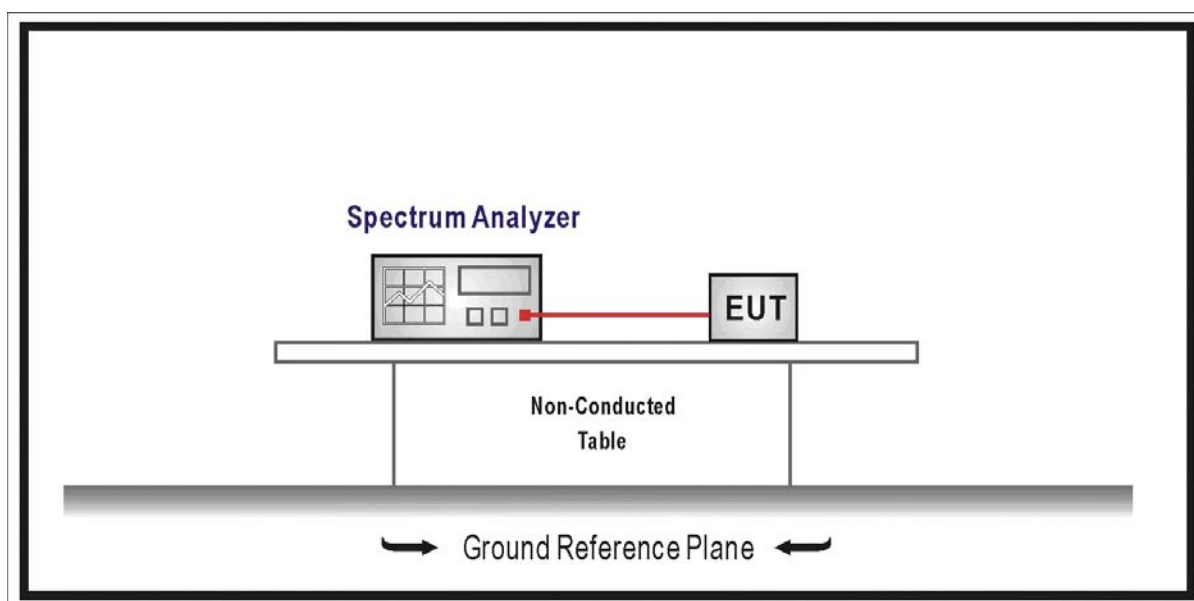
### 7.1. Test Equipment

Operation Frequency Range of 20dB Bandwidth / AC-4

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2008/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2008/03/09

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.

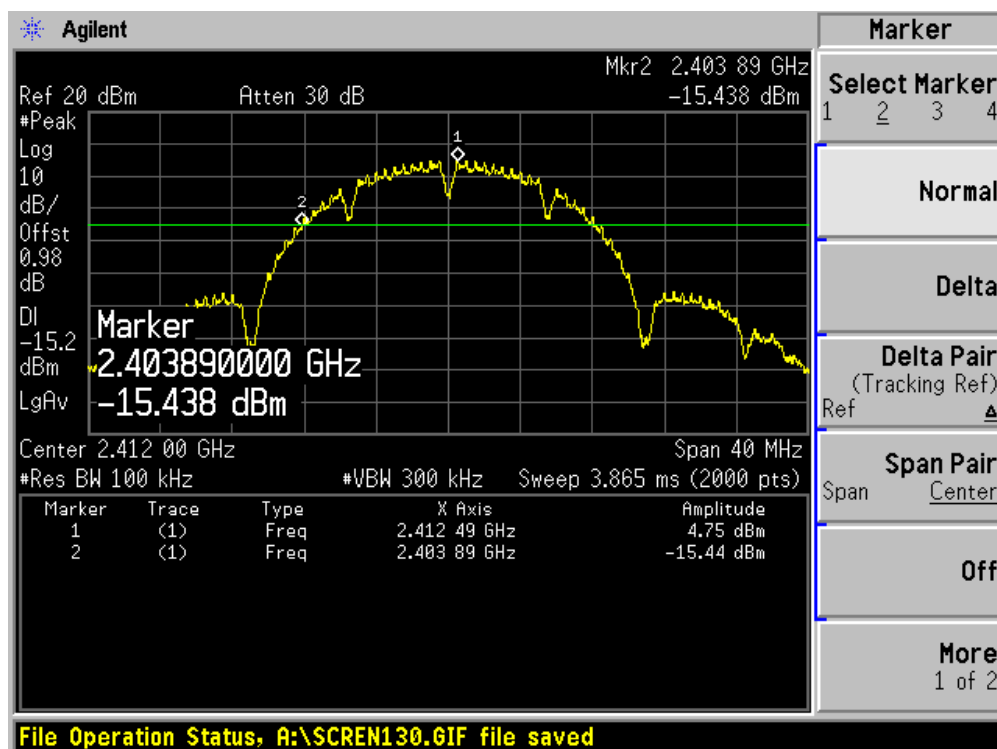
## **7.5. Uncertainty**

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

## 7.6. Test Result

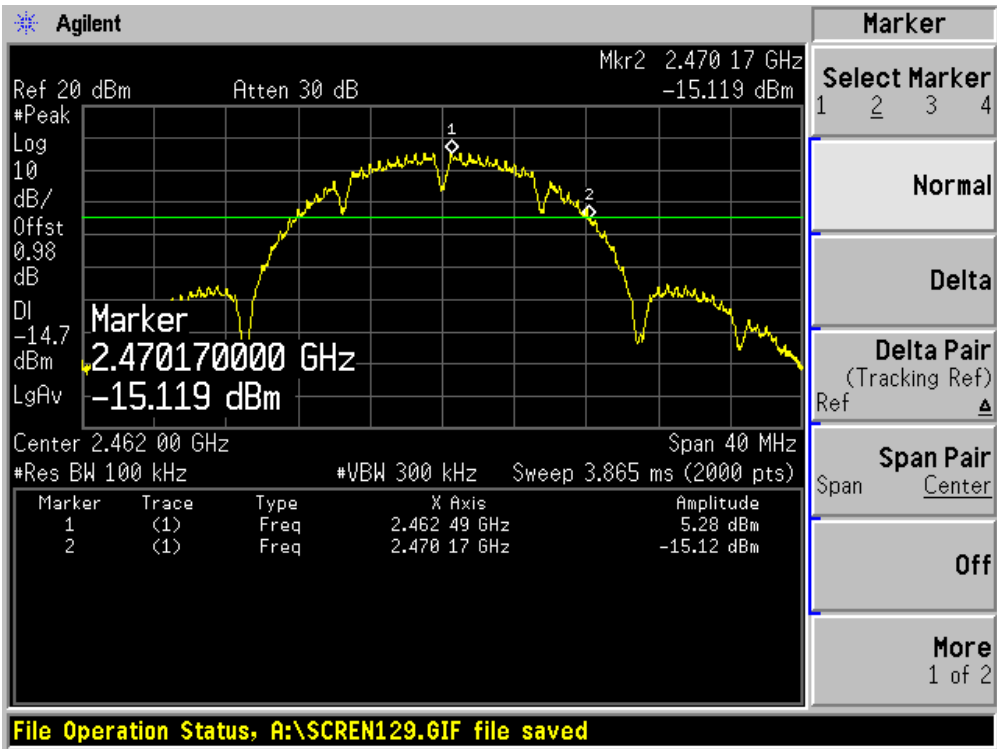
Product	:	Notebook P.C.
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b

Channel 01 (2412MHz)



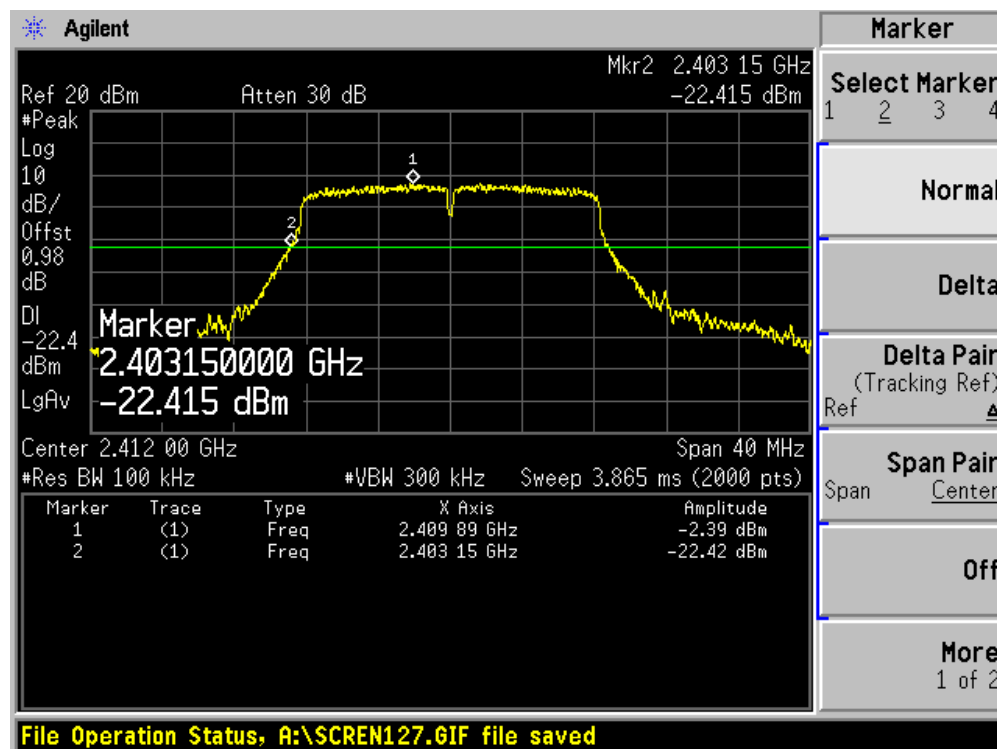


Channel 11 (2462MHz)

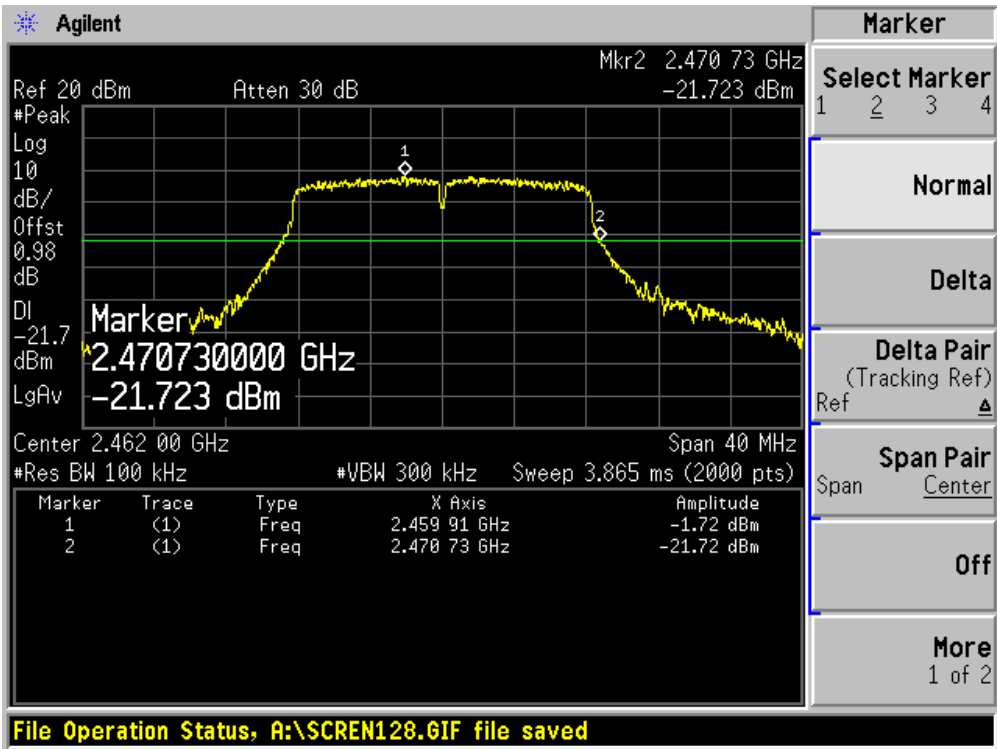


Product	:	Notebook P.C.
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11g

## Channel 01 (2412MHz)



Channel 11 (2462MHz)



## 8. Occupied Bandwidth

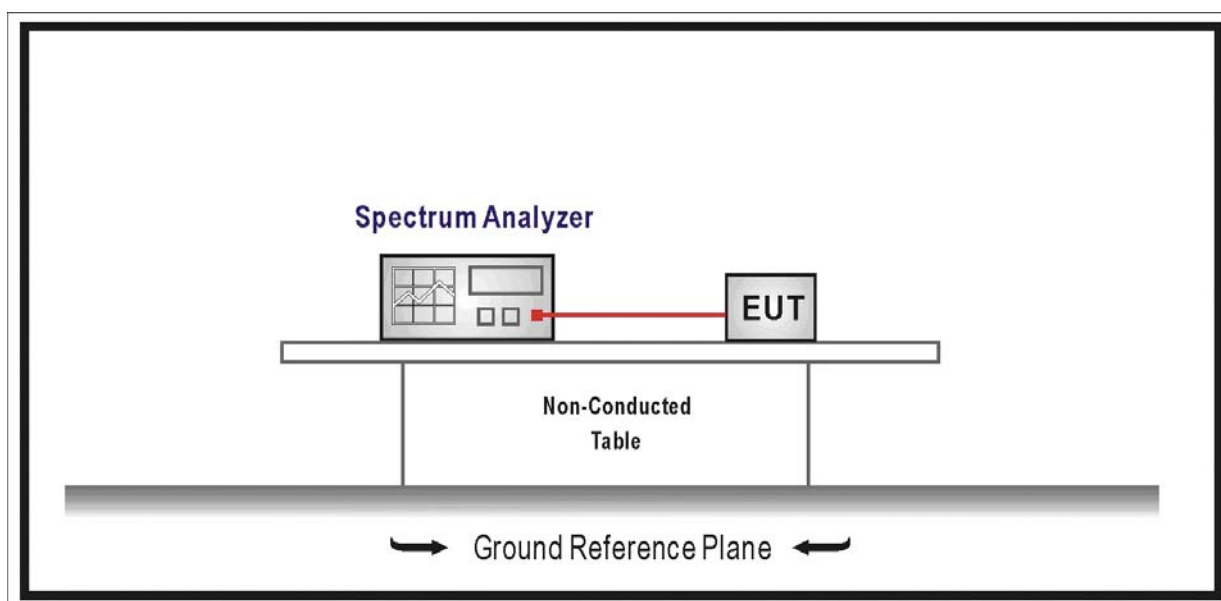
### 8.1. Test Equipment

Occupied Bandwidth / AC-4

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2008/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2008/03/09

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**

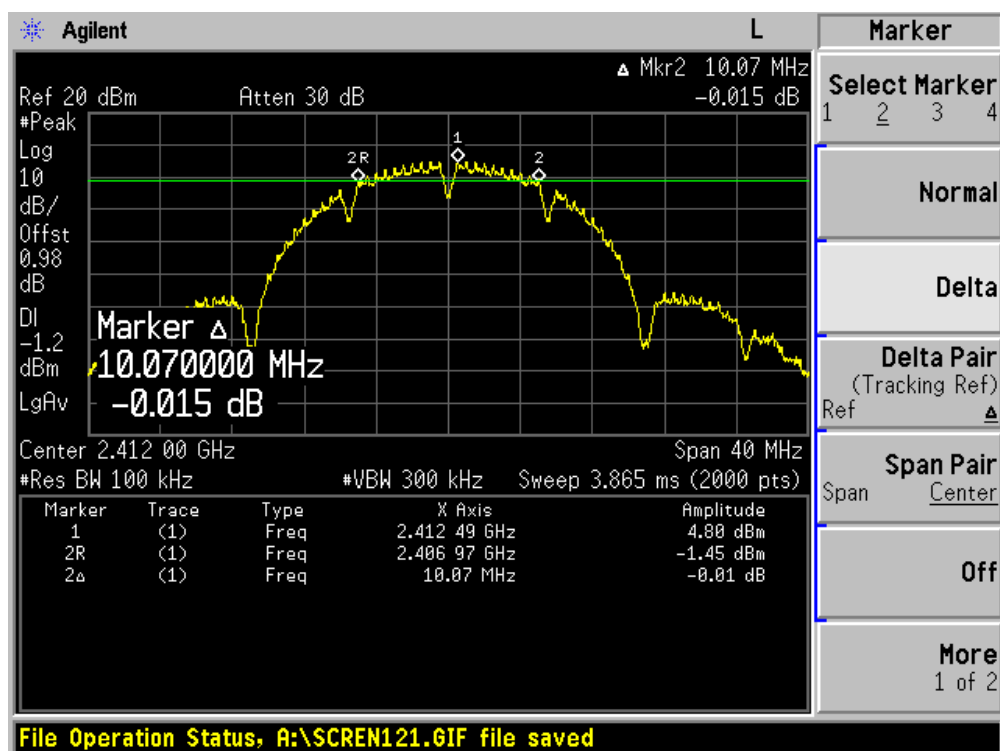
The measurement uncertainty is defined as  $\pm 1$  kHz

## 8.6. Test Result

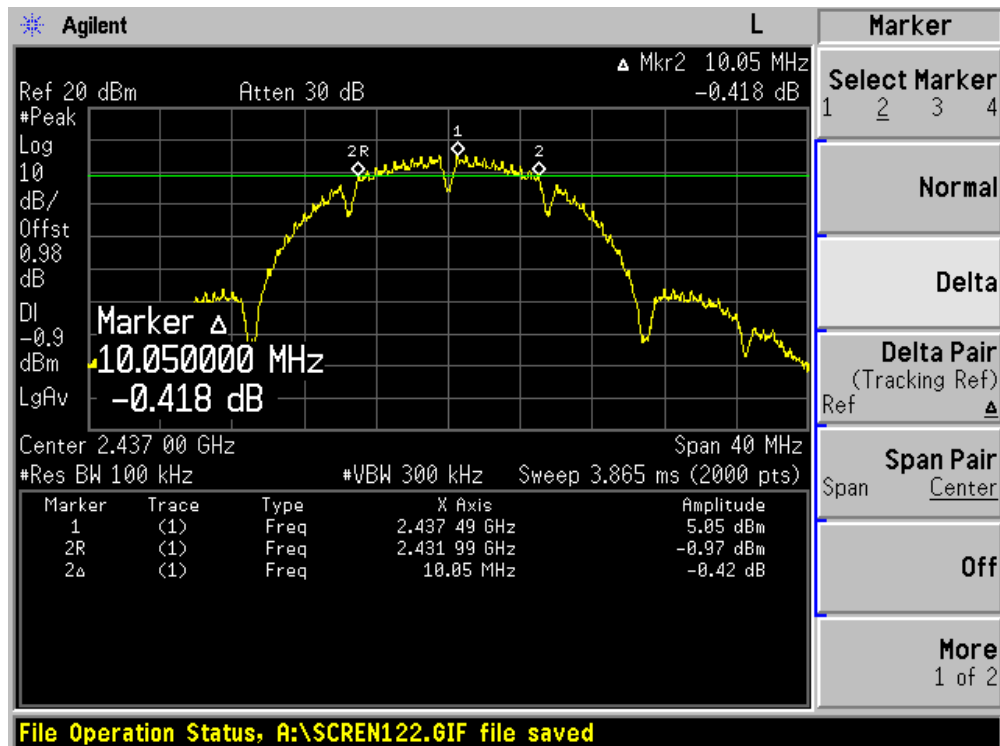
Product	:	Notebook P.C.
Test Item	:	Occupied Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	10070	500	Pass
06	2437	10050	500	Pass
11	2462	10070	500	Pass

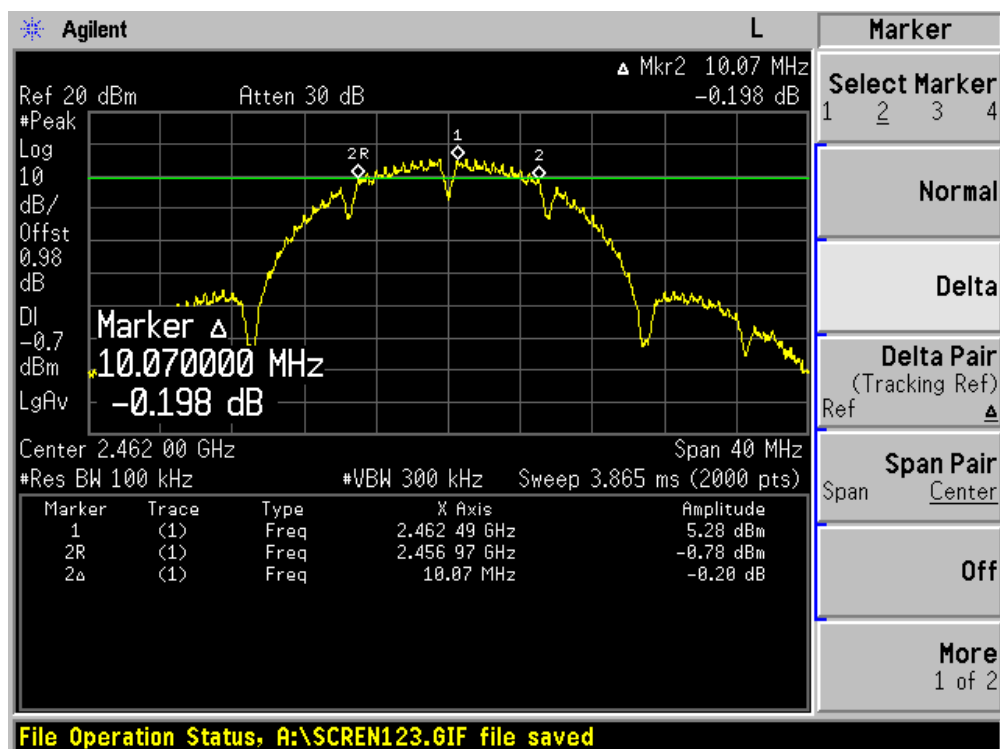
Channel 01 (2412MHz)



### Channel 06 (2437MHz)



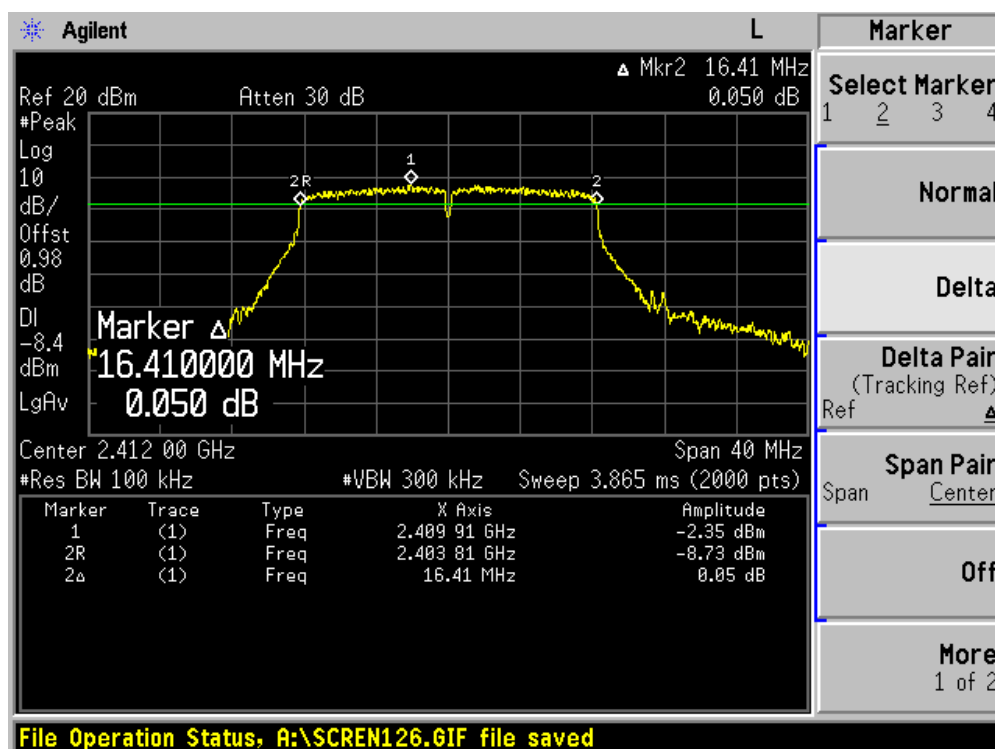
### Channel 11 (2462MHz)



Product	:	Notebook P.C.
Test Item	:	Occupied Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11g

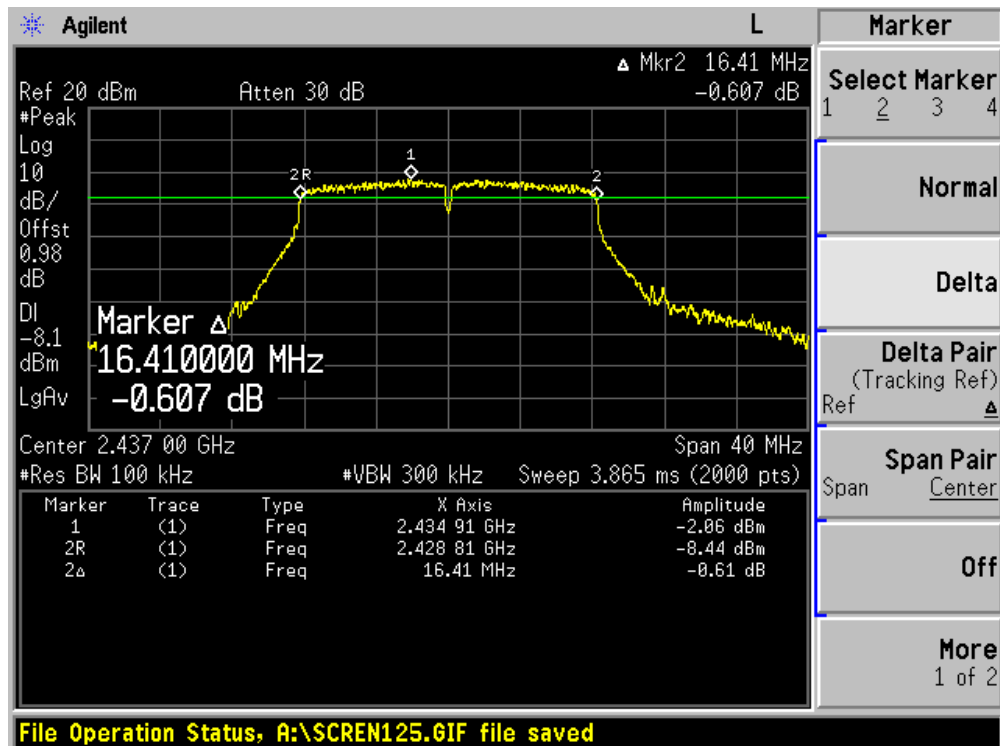
Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	16410	500	Pass
06	2437	16410	500	Pass
11	2462	16390	500	Pass

Channel 01 (2412MHz)

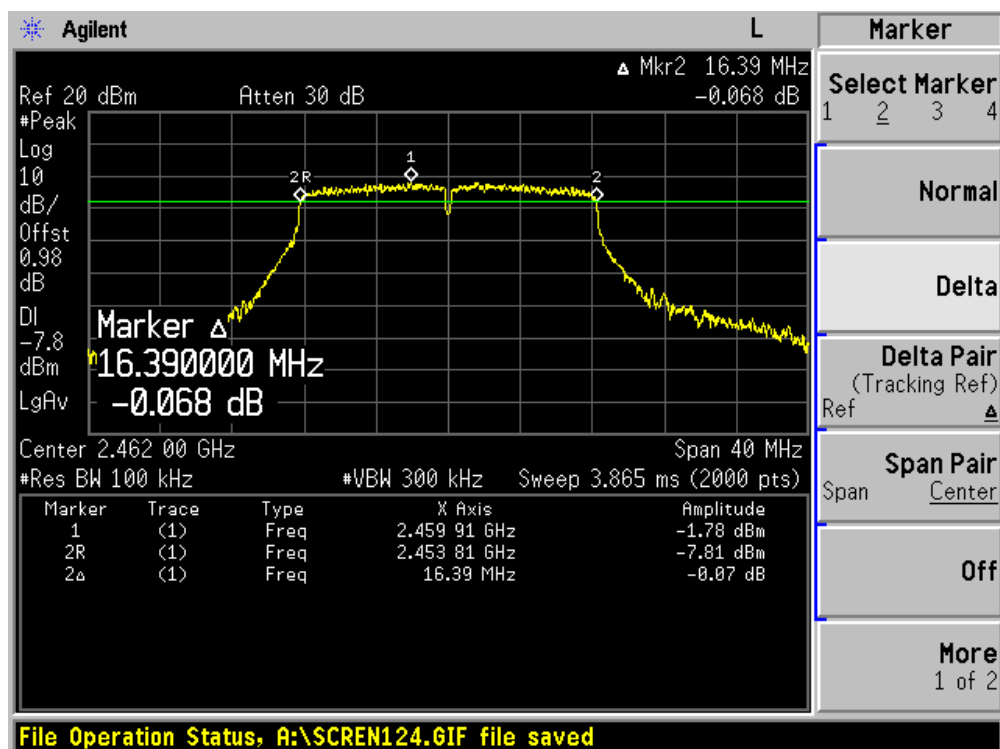




### Channel 06 (2437MHz)



### Channel 11 (2462MHz)



## 9. Power Output

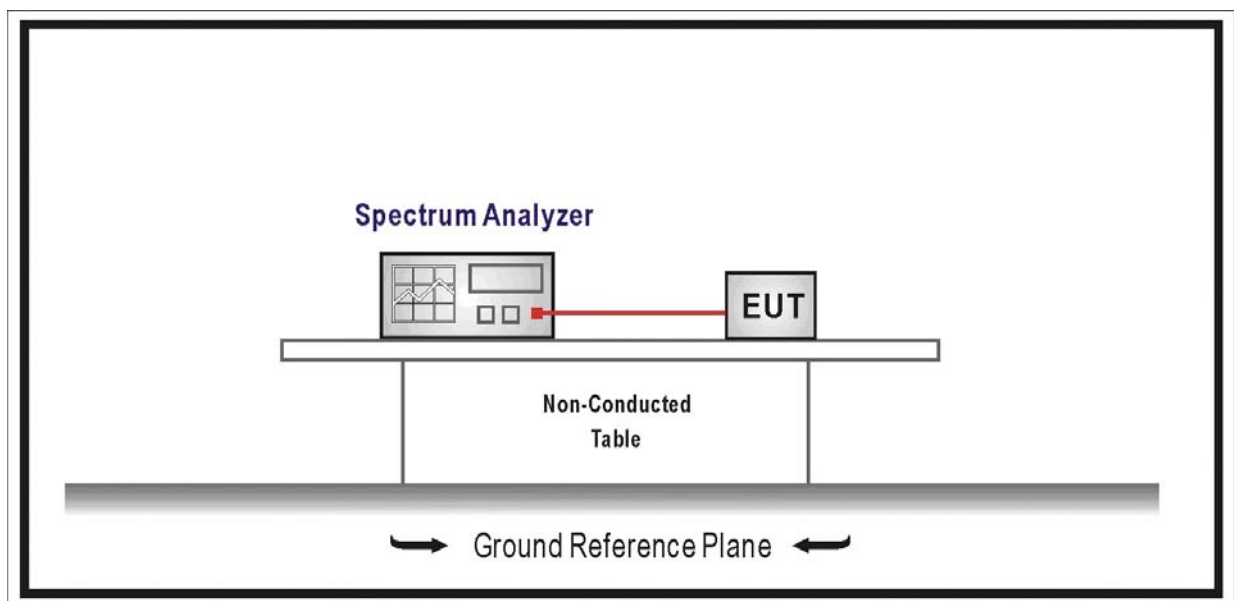
### 9.1. Test Equipment

Power Output / AC-4

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2008/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2008/03/09

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).

In the following, “T” is the transmission pulse duration over which the transmitter is on and transmitting at its maximum power control level. Measurements are performed with a spectrum analyzer. Three methods are provided to accommodate measurement limitations of the spectrum analyzer depending on signal parameters. Set resolution bandwidth (RBW) = 1 MHz. Set span to encompass the entire emission bandwidth (EBW) of the signal. Use automatic setting for analyzer sweep time.

As “T”  $\geq$  sweep time, the test procedure will be used as following:

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz.
3. Set VBW  $\geq$  3 MHz.
4. Use sample detector mode if bin width (i.e., span/number of points in spectrum display) < 0.5 RBW. Otherwise use peak detector mode.
5. Use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at full control power for entire sweep of every sweep. If the device transmits continuously, with no off intervals or reduced power intervals, the trigger may be set to “free run”.
6. Trace average 100 traces in power averaging mode.
7. Compute power by integrating the spectrum across the 26 dB EBW of the signal. The integration can be performed using the spectrum analyzer’s band power measurement function with band limits set equal to the EBW band edges or by summing power levels in each 1 MHz band in linear power terms. The 1 MHz band power levels to be summed can be obtained by averaging, in linear power terms, power levels in each frequency bin across the 1 MHz.

## 9.5. Uncertainty

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

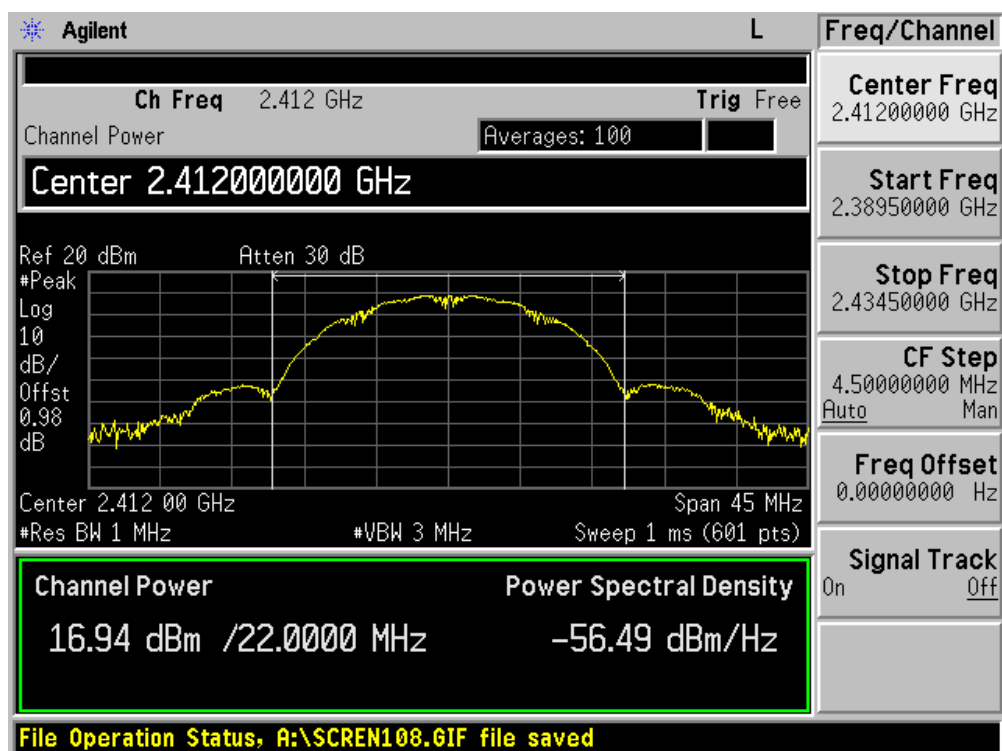
## 9.6. Test Result

Product	:	Notebook P.C.
Test Item	:	Power Output
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b

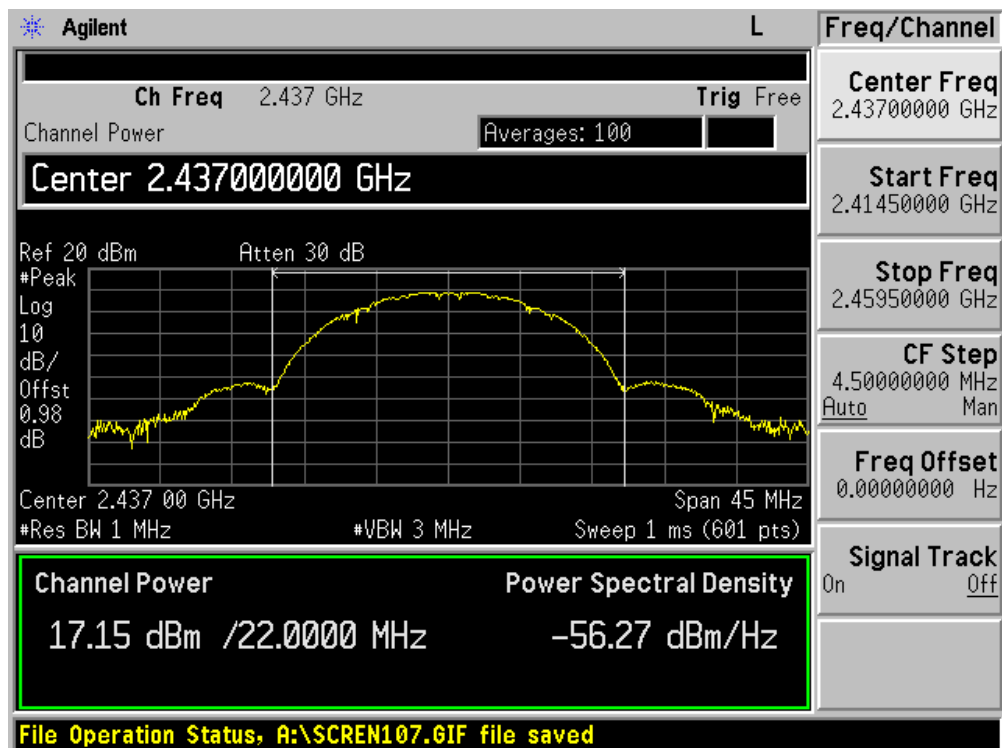
Channel No.	Frequency (MHz)	Data Rate (Mbps)				Limit (dBm)
		1	2	5.5	11	
01	2412	16.94	--	--	--	30
06	2437	17.15	17.13	17.11	17.08	30
11	2462	17.34	--	--	--	30

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

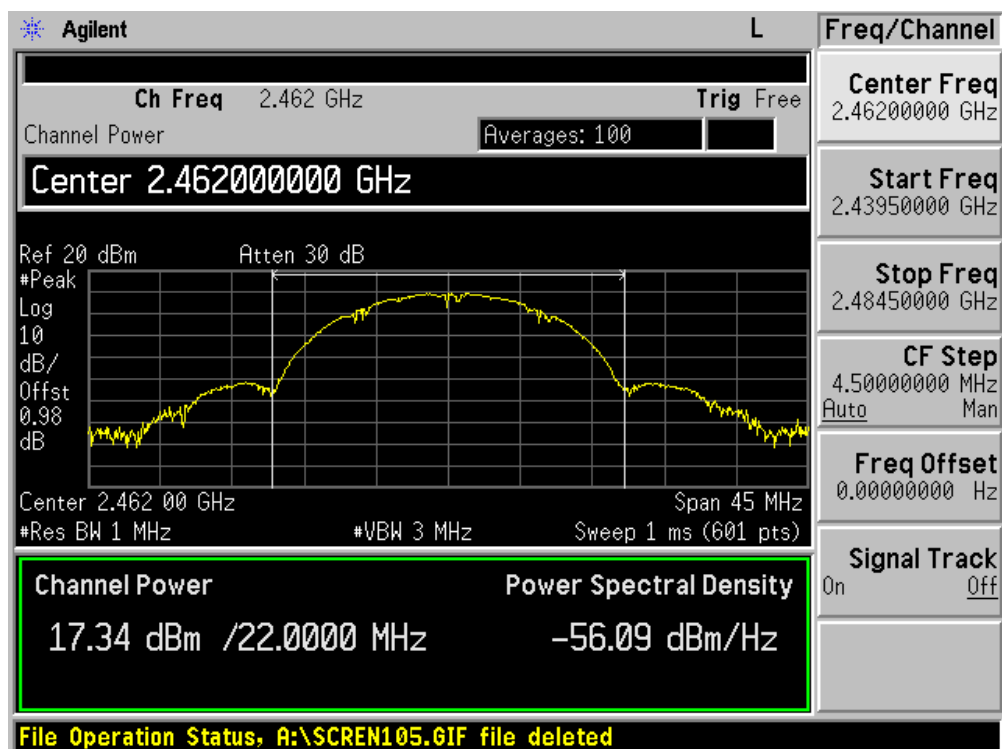
### Channel 01 (2412MHz)



### Channel 06 (2437MHz)



### Channel 11 (2462MHz)

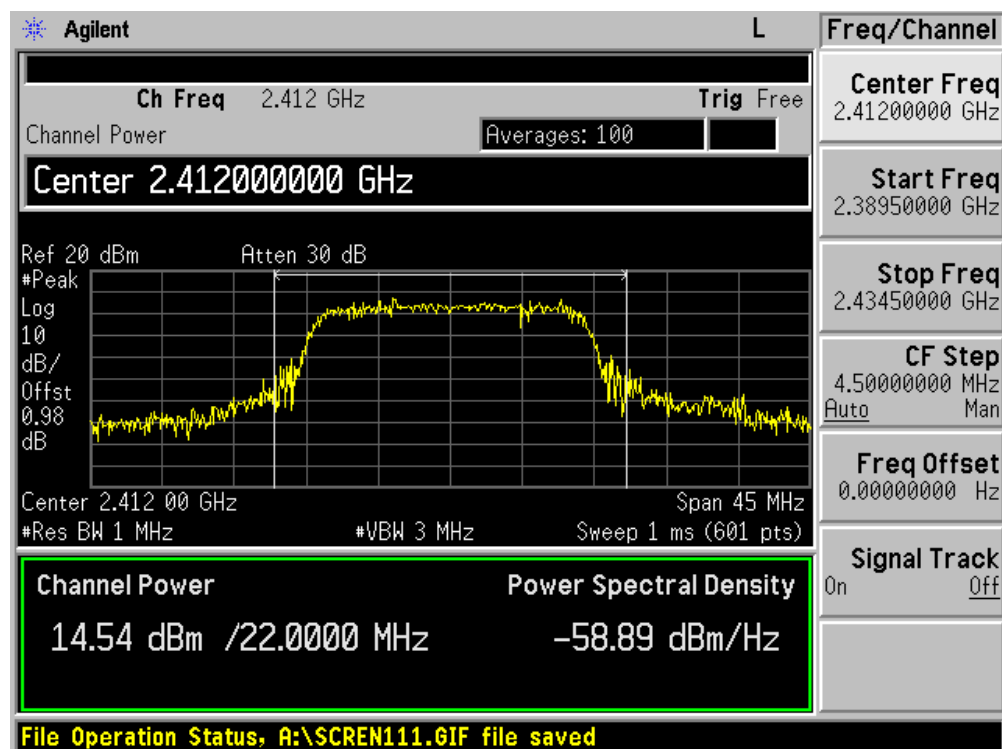


Product	:	Notebook P.C.
Test Item	:	Power Output
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11g

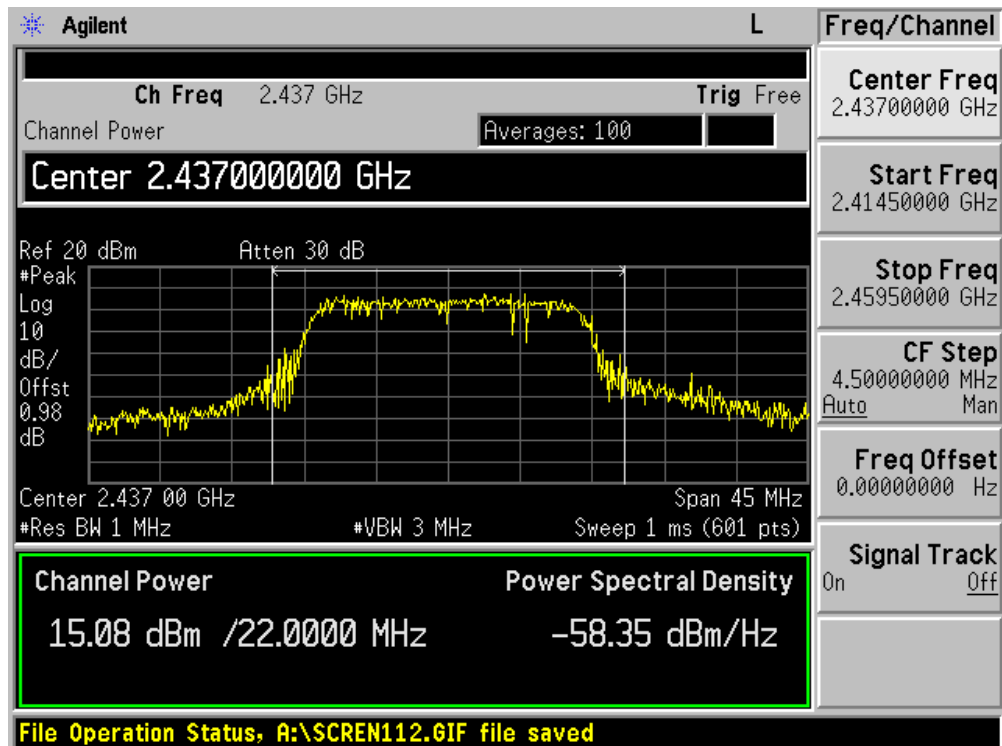
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Limit (dBm)
		6	9	12	18	24	36	48	54	
01	2412	14.54	--	--	--	--	--	--	--	30
06	2437	15.08	15.06	15.03	15.01	14.99	14.96	14.94	14.91	30
11	2462	15.24	--	--	--	--	--	--	--	30

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

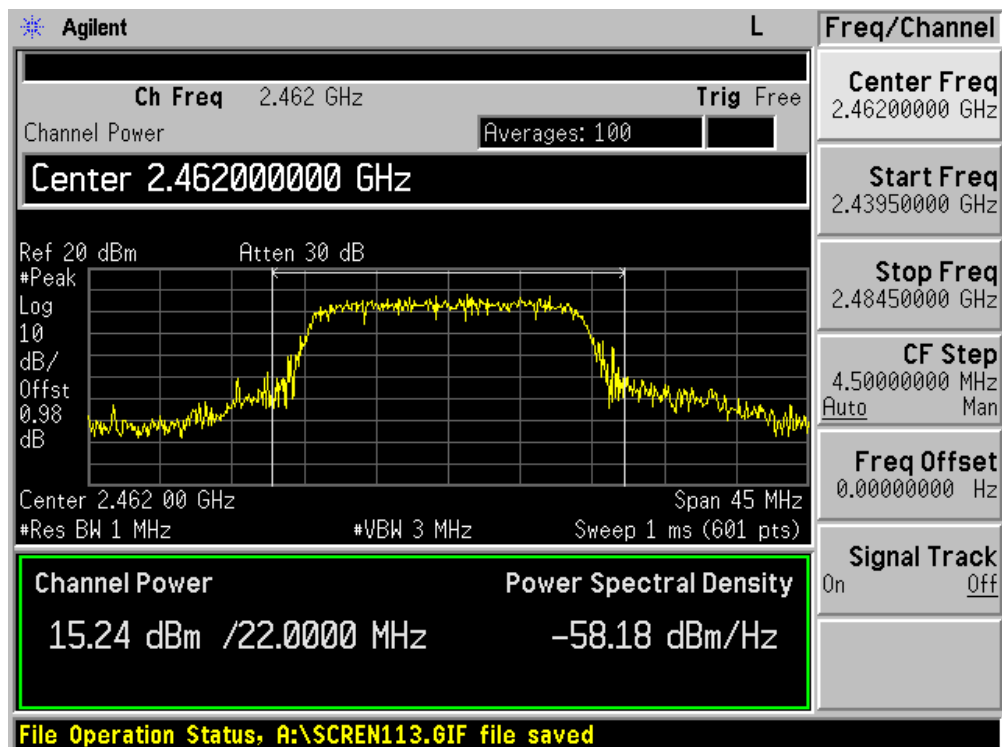
## Channel 01 (2412MHz)



### Channel 06 (2437MHz)



### Channel 11 (2462MHz)



## 10. Power Spectral Density

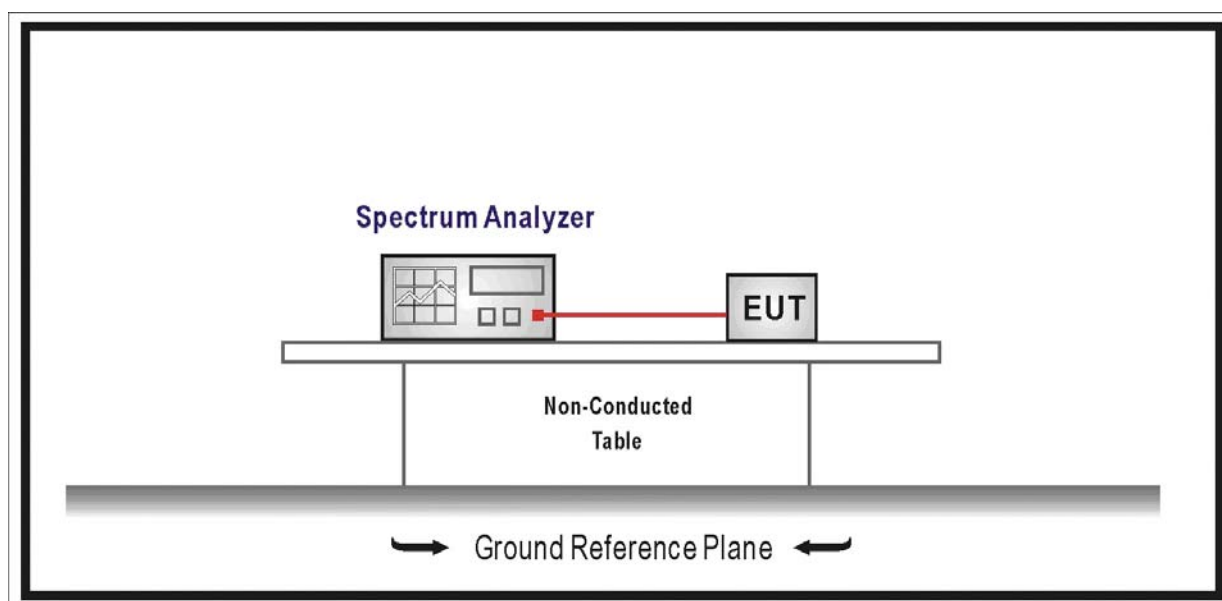
### 10.1. Test Equipment

Power Spectral Density / AC-4

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2008/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2008/03/09

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.



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

### **10.5. Uncertainty**

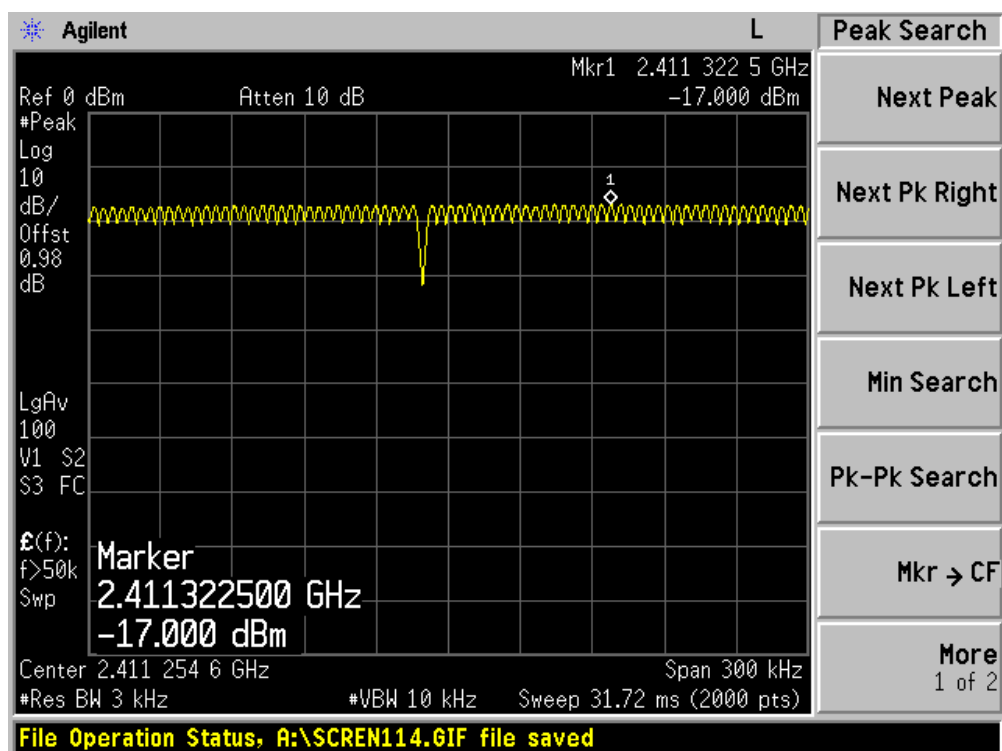
The measurement uncertainty is defined as  $\pm 1.27$  dB

## 10.6. Test Result

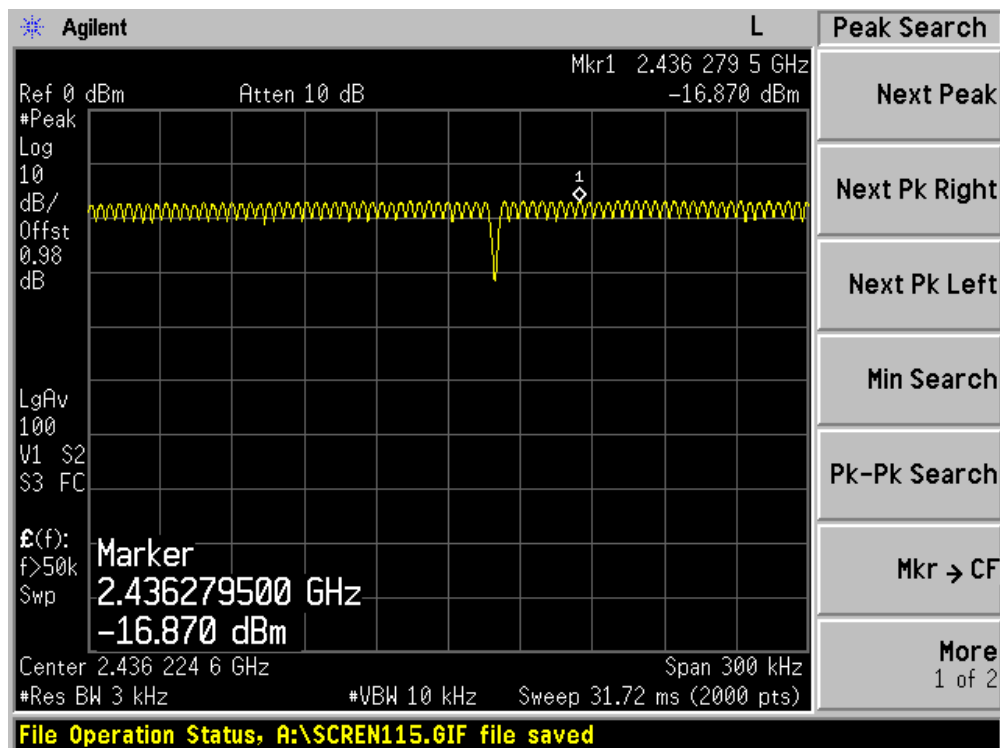
Product	:	Notebook P.C.
Test Item	:	Power Spectral Density
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-17.000	8	Pass
06	2437	-16.870	8	Pass
11	2462	-16.595	8	Pass

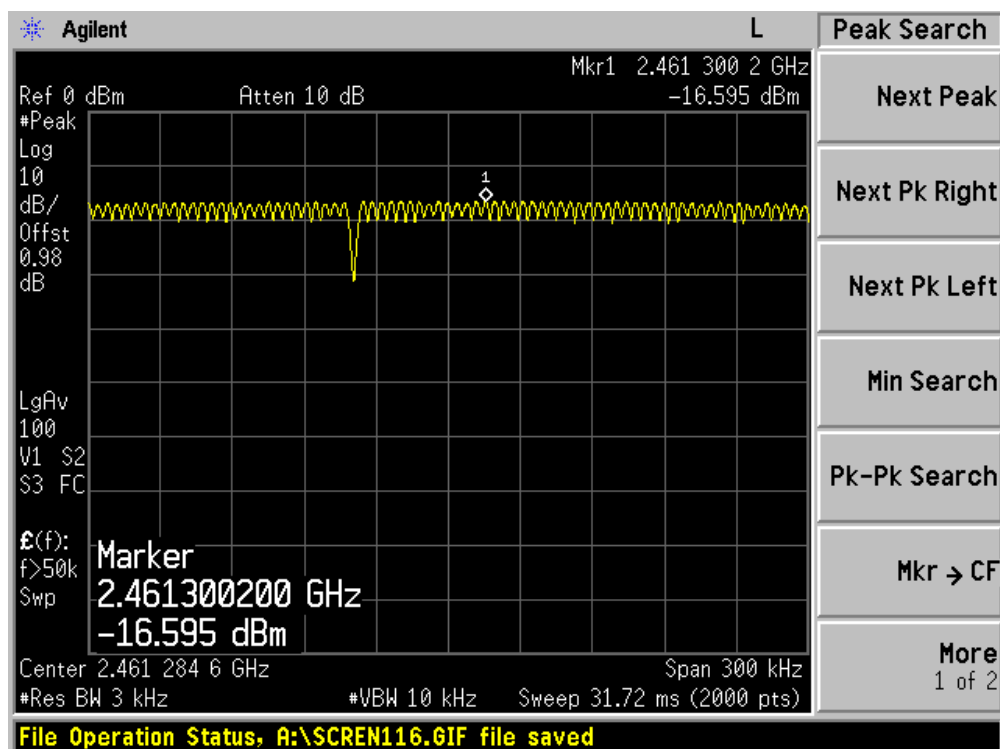
Channel 01 (2412MHz)



### Channel 06 (2437MHz)



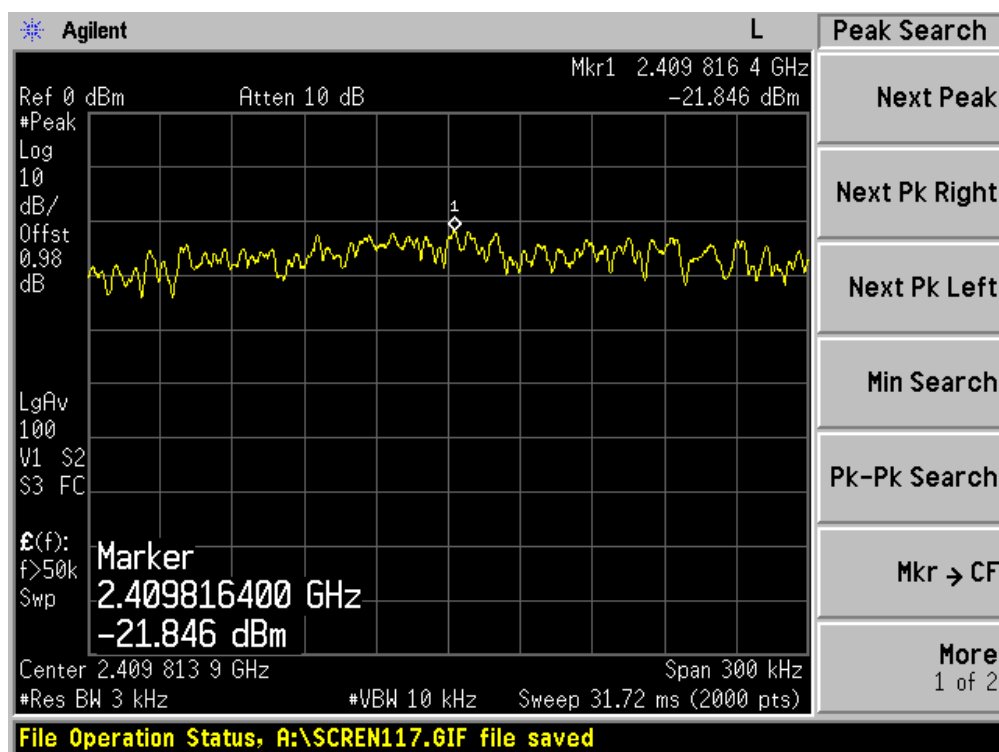
### Channel 11 (2462MHz)



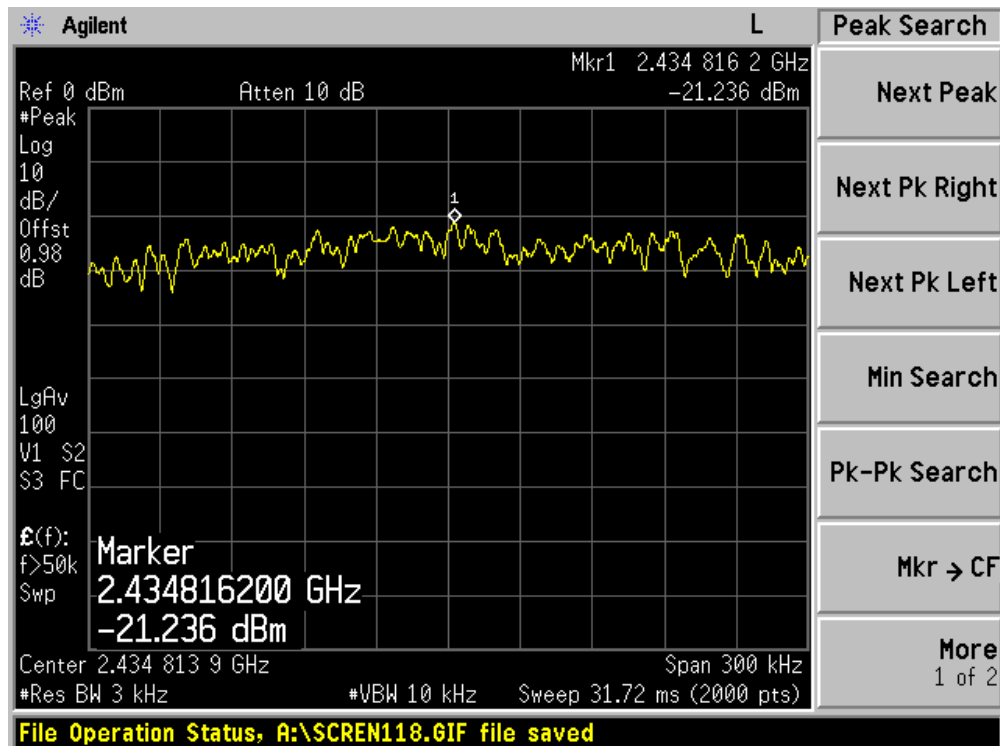
Product	:	Notebook P.C.
Test Item	:	Power Spectral Density
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-21.846	8	Pass
06	2437	-21.236	8	Pass
11	2462	-21.182	8	Pass

Channel 01 (2412MHz)



### Channel 06 (2437MHz)



### Channel 11 (2462MHz)

