

FCC Part15 Subpart C Test Report

Product Name : Eee PC
Model No. : Eee PC 1015P,Eee Pc 1015PE
FCC ID : MSQE15NE785

Applicant : ASUSTEK COMPUTER INC.

Address : 4FL., NO.150, Li-Te Rd., Peitou, Taipei, Taiwan, R. O. C

Date of Receipt : Mar. 24, 2010
Test Date : Mar. 25, 2010 ~ Mar. 28, 2010
Issued Date : Mar. 29, 2010
Report No. : 103S080R-RF-US-P05V02
Report Version : V1.0

The test results relate only to the samples tested.

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

This report must not be used to claim product endorsement by TAF, NVLAP or any agency of the Government.

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Test Report Certification

Issued Date : Mar. 29, 2010
 Report No. : 103S080R-RF-US-P05V02



Product Name : Eee PC
 Applicant : ASUSTEK COMPUTER INC.
 Address : 4FL., NO.150, Li-Te Rd., Peitou, Taipei, Taiwan, R. O. C
 Manufacturer : PROTEK (Shanghai) Limited
 Address : NO.3768 Xiu Yan Rd.Kang Qiao Town, PuDong Dist,
 Shang Hai
 Model No. : Eee Pc 1015P,Eee PC 1015PE
 FCC ID : MSQE15NE785
 EUT Voltage : 19Vdc
 Trade Name : ASUS
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart C: 2008
 ANSI C63.4: 2003
 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

Documented By : Alice Ni
 (Engineering ADM: Alice Ni)
 Reviewed By : Marlinchen
 (Engineering Supervisor: Marlin Chen)
 Approved By : Dream Cao
 (Engineering Manager: Dream Cao)

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/accepted(audited or listed) by the following related bodies in compliance with ISO 17025, EN 45001 and specified testing scope:

Taiwan R.O.C.	: BSMI, NCC, TAF
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://www.quietek.com/tw/emc/accreditations/accreditations.htm>
 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. 5-22, 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 (China) 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 1015P,Eee PC 1015PE
EUT Voltage	19Vdc
WLAN Module	AW-NE785H
Frequency Range	802.11b/g/n(20MHz): 2412~2462MHz 802.11n(40MHz): 2422~2452MHz
Channel Number	802.11b/g/n(20MHz): 11 802.11n(40MHz): 7
Tech. of Modulation	802.11b: DSSS 802.11g/n: OFDM
Data Rate	802.11g: 6/9/12/18/24/36/48/54 Mbps 802.11b: 1/2/5.5/11 Mbps 802.11n: up to 135 Mbps
Channel Control	Auto
Antenna Delivery	1*Tx + 1*Rx
Antenna Type	PIFA
Peak Antenna Gain	4.13 dBi for 2.4GHz band
AC Adapter	Manufacturer: Enertronix, Inc. M/N: EXA0901XH Input: 100-240V~50/60Hz 1.0A Output: 19Vdc, 2.1A

Channel List

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

Antenna Information:

Antenna	Manufacturer	Model No.	Antenna Gain(dBi)
802.11bgn Antenna	Yageo	C660-520265-A	1.85dBi for 2.4G
802.11bgn Antenna	ACON	APP6P-700398	4.13dBi for 2.4G
802.11bgn Antenna	Pegatron	C660-520265-A	0.77dBi for 2.4G

Note: Antenna manufactured by ACON was used for testing.

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 802.11 n (20MHz)
Mode 4: Transmit by 802.11n (40MHz)

Note:

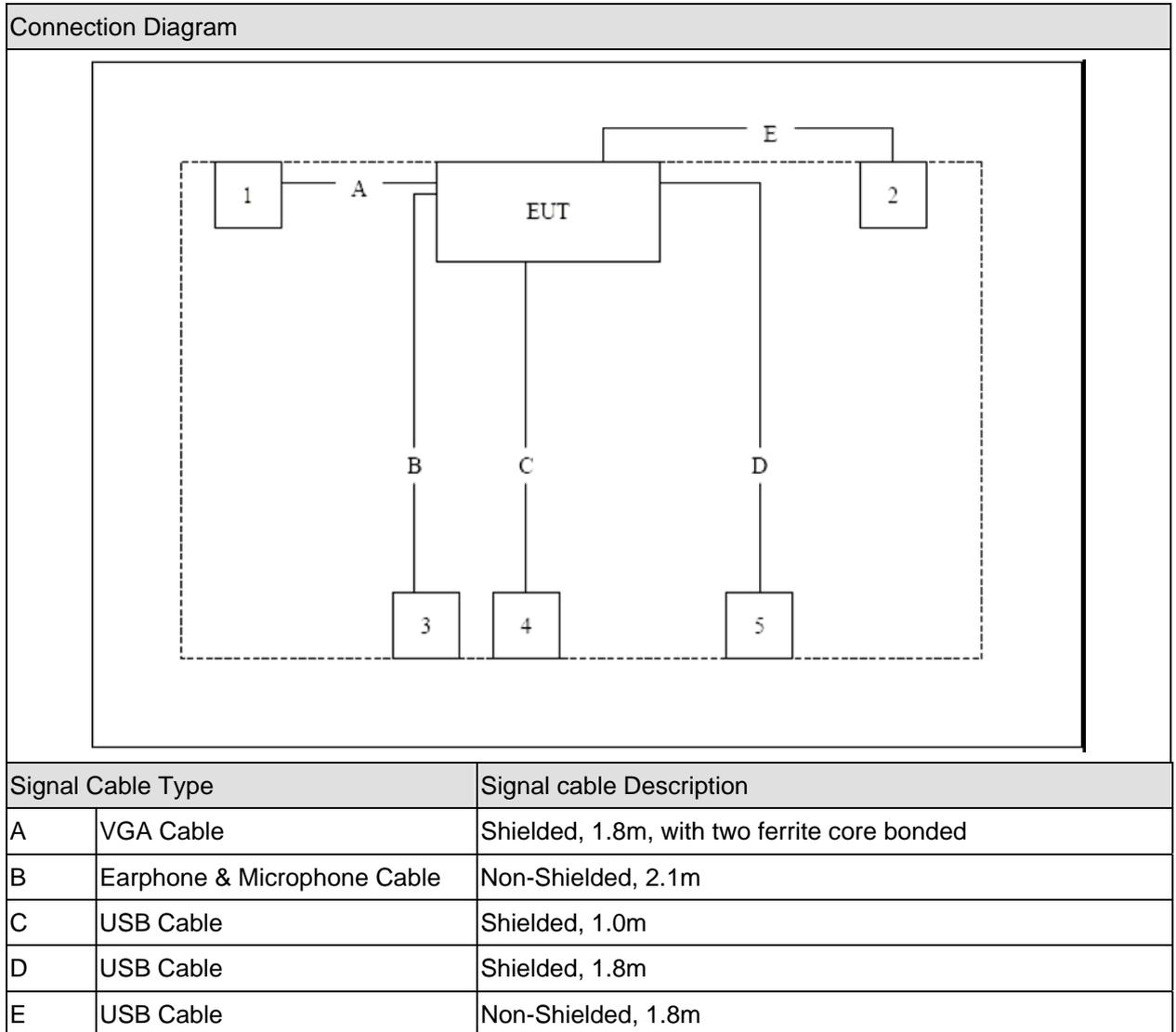
1. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.
2. This device is a composite device in accordance with Part 15 Subpart B regulations. The function for the receiver was measured and made a test report that the report number is 103S080R-RF-US-P02V02.

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	Lenovo	L2240pwD	9M0337992301042	Non-Shielded, 1.8m
2 Printer	EPSON	P950A	3KTE013597	Non-Shielded, 1.8m
3 Microphone & Earphone	SOMIC	CD-2688M.V	N/A	N/A
4 iPod	Apple	A1199	6U715UPHVQ5	Power by PC
5 USB Mouse	DELL	MO56UOA	F1B03EZZ	Power by PC

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.
3	Run control software "ART" provided by applicant.
4	Select test channel and test mode for 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: 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

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

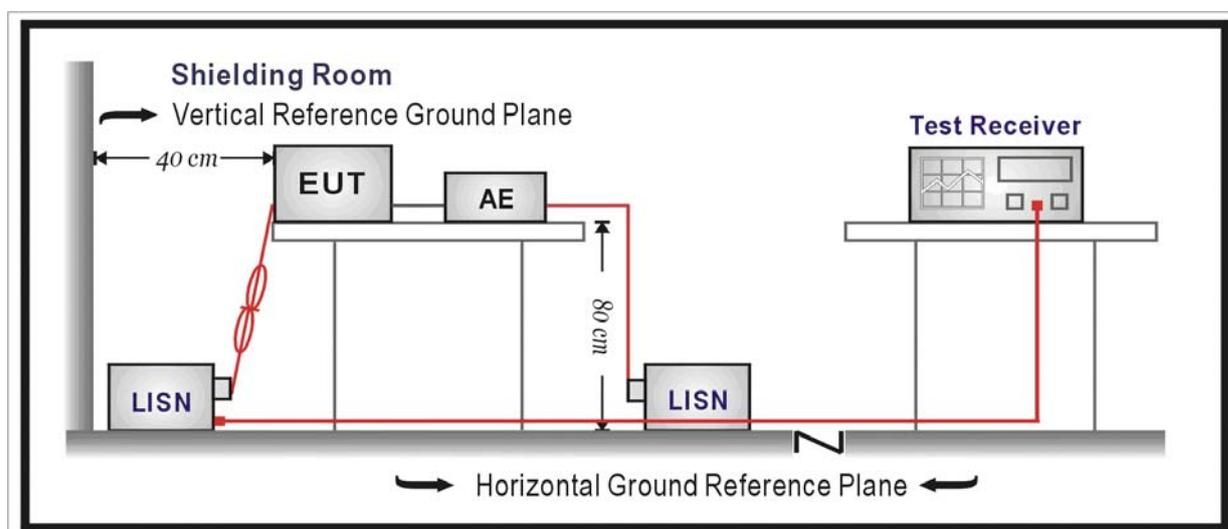
3.1. Test Equipment

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	2009/06/11
Two-Line V-Network	R&S	ENV216	100014	2009/04/23
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2009/05/25
50ohm Termination	SHX	TF2	07081401	2009/09/29
Temperature/Humidity Meter	zhicheng	ZC1-2	SR1-TH	2010/01/14

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.

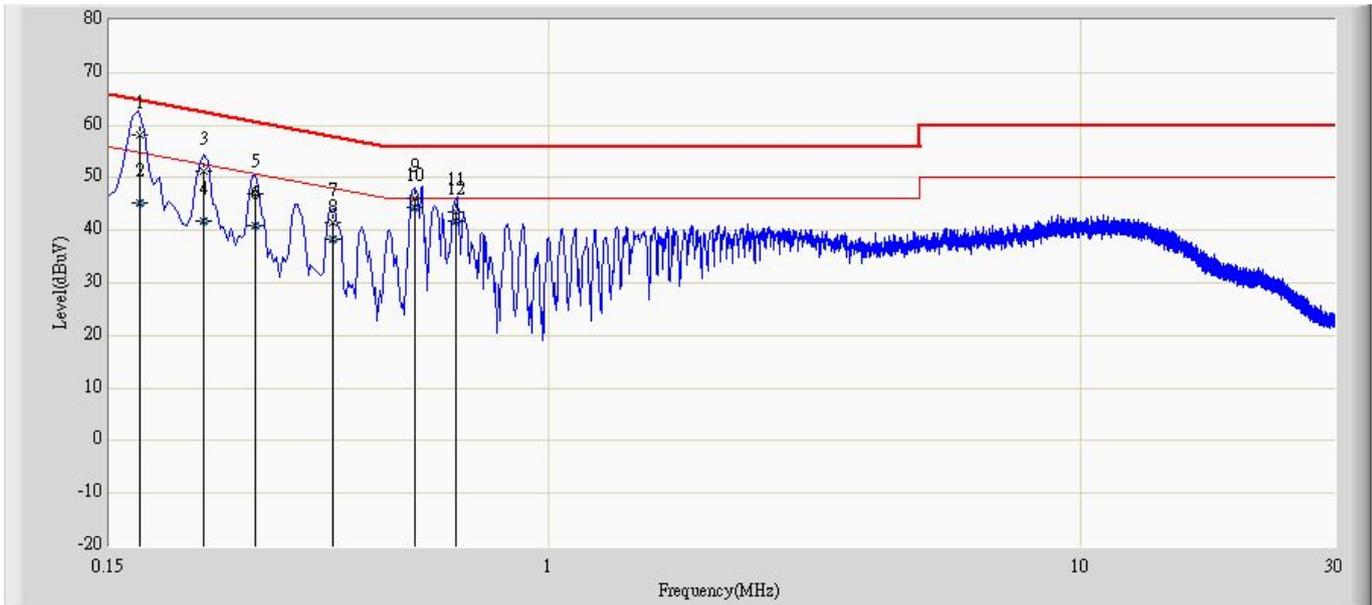
The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

3.5. Uncertainty

The measurement uncertainty is defined as ± 2.02 dB

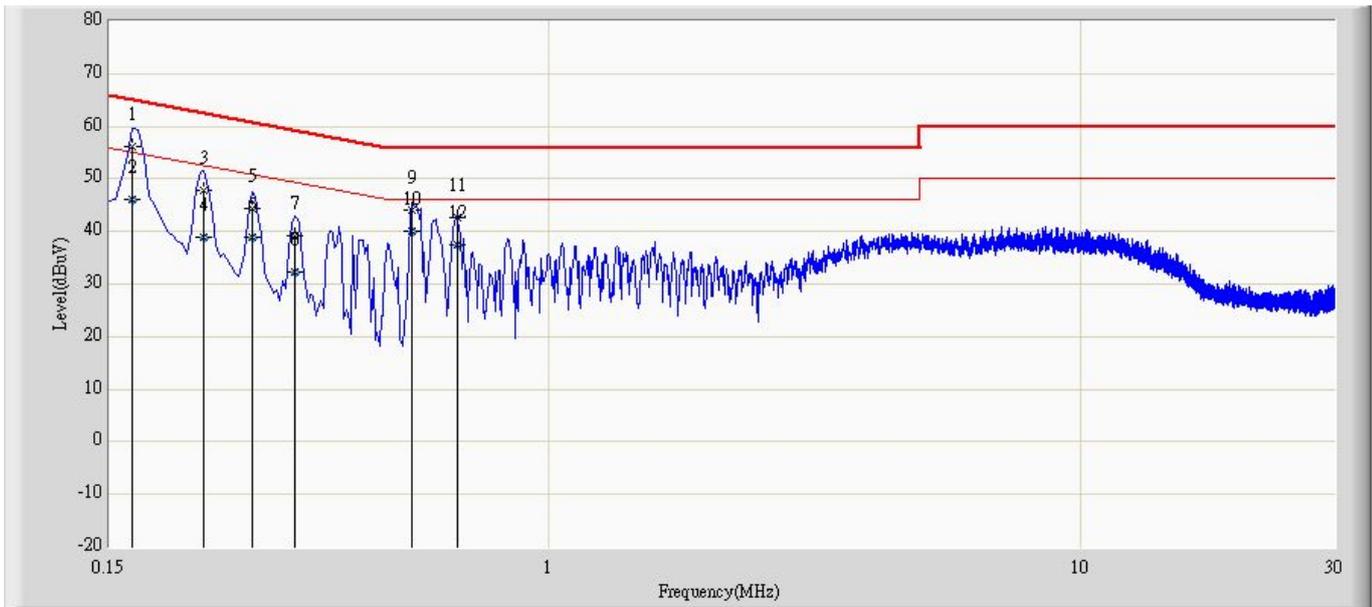
3.6. Test Result

Profile: 103S080R	Page No.: 1
Engineer: Ken	
Site: SR1	Time: 2010/03/26 - 18:34
Limit: FCC_Part15.207_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101043(0.009-30MHz)	Polarity: Line
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor	Type
1		*	0.171	58.267	48.657	-6.637	64.905	9.611	QP
2			0.171	45.372	35.761	-9.533	54.905	9.611	AV
3			0.226	51.226	41.546	-11.369	62.595	9.68	QP
4			0.226	41.684	32.004	-10.912	52.595	9.68	AV
5			0.282	46.88	37.2	-13.877	60.757	9.68	QP
6			0.282	41.052	31.372	-9.705	50.757	9.68	AV
7			0.394	41.628	31.947	-16.351	57.979	9.682	QP
8			0.394	38.234	28.553	-9.745	47.979	9.682	AV
9			0.562	46.164	36.474	-9.836	56	9.69	QP
10			0.562	44.345	34.655	-1.655	46	9.69	AV
11			0.67	43.634	33.944	-12.366	56	9.69	QP
12			0.67	41.779	32.089	-4.221	46	9.69	AV

Profile: 103S080R	Page No.: 2
Engineer: Ken	
Site: SR1	Time: 2010/03/26 - 18:47
Limit: FCC_Part15.207_CE_AC Power_ClassB	Margin: 0
Probe: ENV216_101043(0.009-30MHz)	Polarity: Neutral
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor	Type
1		*	0.166	56.26	46.528	-8.918	65.179	9.733	QP
2			0.166	45.955	36.222	-9.224	55.179	9.733	AV
3			0.226	47.872	38.221	-14.724	62.595	9.651	QP
4			0.226	38.811	29.16	-13.784	52.595	9.651	AV
5			0.278	44.461	34.808	-16.415	60.875	9.653	QP
6			0.278	38.954	29.302	-11.921	50.875	9.653	AV
7			0.334	39.153	29.499	-20.198	59.351	9.654	QP
8			0.334	32.311	22.657	-17.04	49.351	9.654	AV
9			0.554	44.213	34.538	-11.787	56	9.675	QP
10			0.554	39.946	30.271	-6.054	46	9.675	AV
11			0.674	42.661	32.974	-13.339	56	9.687	QP
12			0.674	37.613	27.926	-8.387	46	9.687	AV

4. Radiated Emission

4.1. Test Equipment

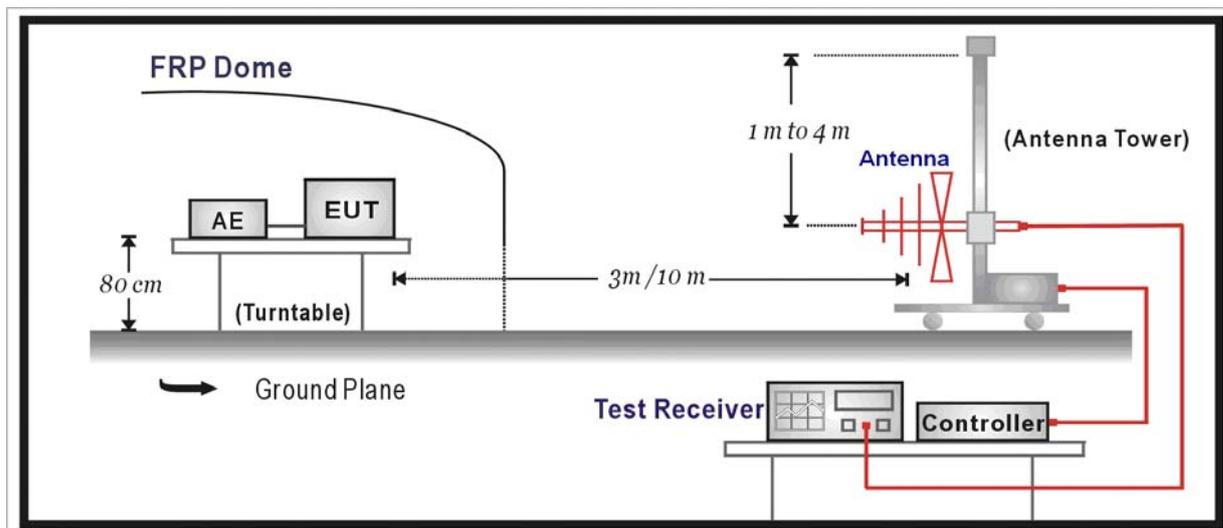
Radiated Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2009.04.23
EMI Test Receiver	R&S	ESCI	100906	2010.01.15
Preamplifier	Quietek	AP-180C	CHM-0602013	2009.05.25
Preamplifier	QuieTek	AP-040G	CHM-0906001	2009.06.18
Bilog Antenna	Teseq GmbH	CBL6112D	27612	2009.11.12
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	737	2009.11.24
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2009.11.24
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC5-TH	2010.01.14

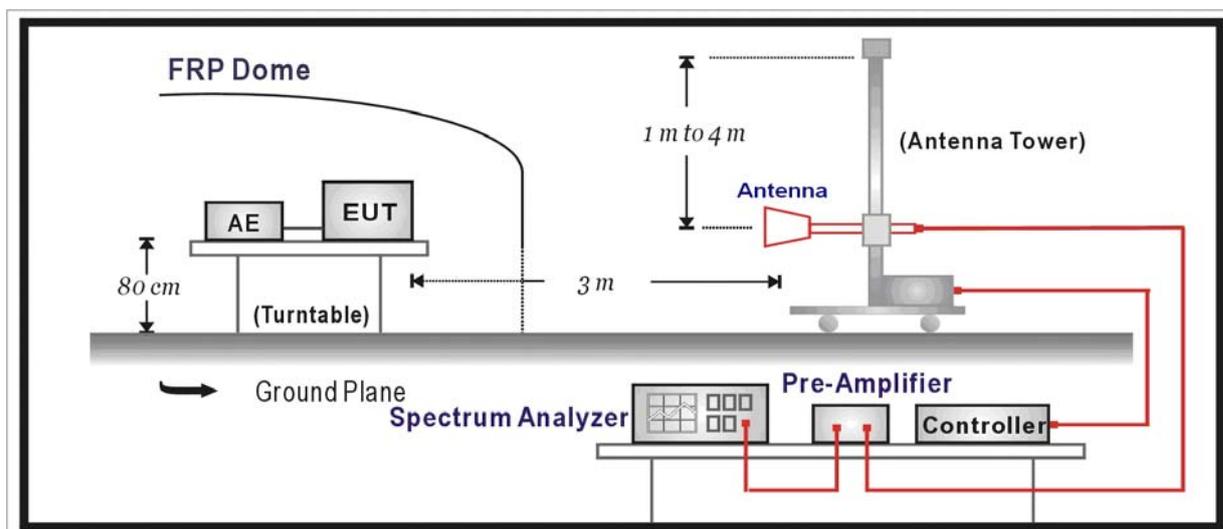
Note 1: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

4.2. Test Setup

Below 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 10~60 degrees for H-plane and 10~90 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

All of the test result shown indicates the worst case, and spectrum analyzer parameters setting as shown below:

Peak detector: RBW = 1MHz, VBW = 3MHz, sweep time = 200ms;

Average detector: RBW = 1MHz, VBW = 10Hz, sweep time = auto.

Measure Level = Reading Level + Cable Loss + Antenna Factor - Preamplifier Gain

802.11b

CH	Antenna	Frequen cy (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	H	2410.6	72.3	32.0	104.3	Fundamental	/	PK
	H	357.6	18.0	18.3	36.3	46	-9.7	QP
	H	455.9	17.6	20.5	38.1	46	-7.9	QP
	V	3216.3	65.2	-17.0	48.2	54	-5.8	PK
	V	4824.0	60.3	-14.0	46.3	54	-7.7	PK
	V	7236.0	52.0	-5.5	46.5	54	-7.5	PK
	V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
6	H	2435.3	74.4	31.2	105.6	Fundamental	/	PK
	H	357.6	18.0	18.3	36.3	46	-9.7	QP
	H	455.9	17.6	20.5	38.1	46	-7.9	QP
	V	3216.3	65.2	-17.0	48.2	54	-5.8	PK
	V	4874.0	54.8	-13.6	41.2	54	-12.8	PK
	V	7311.0	51.8	-5.3	46.5	54	-7.5	PK
	V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
11	H	2463.0	73.3	31.2	104.5	Fundamental	/	PK
	H	357.6	18.0	18.3	36.3	46	-9.7	QP
	H	455.9	17.6	20.5	38.1	46	-7.9	QP
	V	3216.3	65.2	-17.0	48.2	54	-5.8	PK
	V	4924.0	60.3	-13.7	46.6	54	-7.4	PK
	V	7386.0	51.9	-5.0	46.9	54	-7.1	PK
	V	24000.0	59.1	-8.9	50.2	54	-3.8	PK

802.11g

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	H	2414.9	75.3	31.1	106.4	Fundamental	/	PK
	H	357.6	18.0	18.3	36.3	46	-9.7	QP
	H	455.9	17.6	20.5	38.1	46	-7.9	QP
	V	3216.3	65.2	-17.0	48.2	54	-5.8	PK
	V	4824.0	62.1	-14.0	48.1	54	-5.9	PK
	V	7236.0	53.5	-5.5	48.0	54	-6.0	PK
	V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
6	H	2435.1	75.2	31.2	106.4	Fundamental	/	PK
	H	357.6	18.0	18.3	36.3	46	-9.7	QP
	H	455.9	17.6	20.5	38.1	46	-7.9	QP
	V	3216.3	65.2	-17.0	48.2	54	-5.8	PK
	V	4874.0	54.2	-13.6	40.6	54	-13.4	PK
	V	7311.0	51.1	-5.3	45.8	54	-8.2	PK
	V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
11	H	2465.9	76.4	30.8	107.2	Fundamental	/	PK
	H	357.6	18.0	18.3	36.3	46	-9.7	QP
	H	455.9	17.6	20.5	38.1	46	-7.9	QP
	V	3216.3	65.2	-17.0	48.2	54	-5.8	PK
	V	4924.0	60.1	-13.7	46.4	54	-7.6	PK
	V	7386.0	50.8	-5.0	45.8	54	-8.2	PK
	V	24000.0	59.1	-8.9	50.2	54	-3.8	PK

802.11n(20MHz)

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	H	2409.9	74.9	31.1	106.0	Fundamental	/	PK
	H	357.6	18.0	18.3	36.3	46	-9.7	QP
	H	455.9	17.6	20.5	38.1	46	-7.9	QP
	V	3216.3	65.2	-17.0	48.2	54	-5.8	PK
	V	4824.0	59.1	-14.0	45.1	54	-8.9	PK
	V	7236.0	51.3	-5.5	45.8	54	-8.2	PK
	V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
6	H	2439.3	71.4	31.2	102.6	Fundamental	/	PK
	H	357.6	18.0	18.3	36.3	46	-9.7	QP
	H	455.9	17.6	20.5	38.1	46	-7.9	QP
	V	3216.3	65.2	-17.0	48.2	54	-5.8	PK
	V	4874.0	52.5	-13.6	38.9	54	-15.1	PK
	V	7311.0	50.7	-5.3	45.4	54	-8.6	PK
	V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
11	H	2465.6	75.6	31.2	106.9	Fundamental	/	PK
	H	357.6	18.0	18.3	36.3	46	-9.7	QP
	H	455.9	17.6	20.5	38.1	46	-7.9	QP
	V	3216.3	65.2	-17.0	48.2	54	-5.8	PK
	V	4924.0	61.5	-13.7	47.8	54	-6.2	PK
	V	7386.0	52.5	-5.0	47.5	54	-6.5	PK
	V	24000.0	59.1	-8.9	50.2	54	-3.8	PK

802.11n(40MHz)

CH	Antenna	Frequency (MHz)	Reading Level (dBuV/m)	Factor (dB)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
3	H	2424.4	67.4	30.6	108.0	Fundamental	/	PK
	H	357.6	18.0	18.3	36.3	46	-9.7	QP
	H	455.9	17.6	20.5	38.1	46	-7.9	QP
	V	3216.3	65.2	-17.0	48.2	54	-5.8	PK
	V	4844.0	58.2	-14.0	44.2	54	-9.8	PK
	V	7266.0	51.7	-5.5	46.2	54	-7.8	PK
	V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
6	H	2435.3	71.2	31.2	102.4	Fundamental	/	PK
	H	357.6	18.0	18.3	36.3	46	-9.7	QP
	H	455.9	17.6	20.5	38.1	46	-7.9	QP
	V	3216.3	65.2	-17.0	48.2	54	-5.8	PK
	V	4874.0	52.4	-13.6	38.8	54	-15.2	PK
	V	7311.0	49.2	-5.3	43.9	54	-10.1	PK
	V	24000.0	59.1	-8.9	50.2	54	-3.8	PK
9	H	2442.6	68.3	30.5	98.8	Fundamental	/	PK
	H	357.6	18.0	18.3	36.3	46	-9.7	QP
	H	455.9	17.6	20.5	38.1	46	-7.9	QP
	V	3216.3	65.2	-17.0	48.2	54	-5.8	PK
	V	4904.0	58.1	-13.7	44.4	54	-9.6	PK
	V	7356.0	52.1	-5.0	47.1	54	-6.9	PK
	V	24000.0	59.1	-8.9	50.2	54	-3.8	PK

Note 1: This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

5. RF Antenna Conducted Spurious

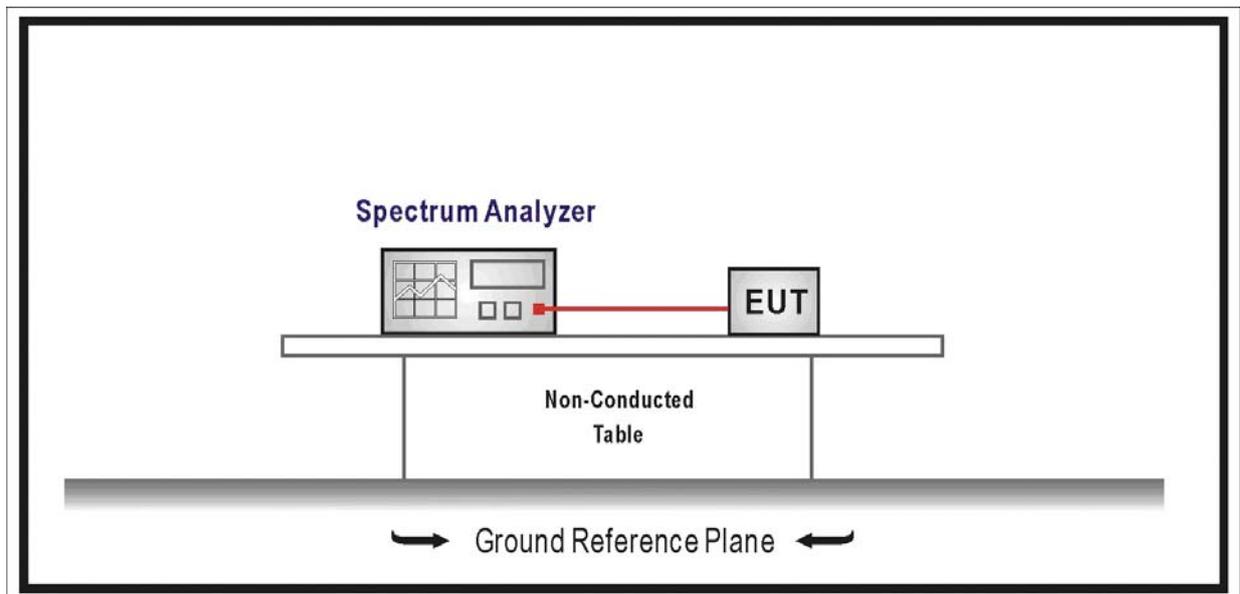
5.1. Test Equipment

RF Antenna Conducted Spurious / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9020A	MY49100159	2009.05.06
Temperature/Humidity Meter	zhicheng	ZC1-2	AC6-TH	2010.01.14

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.

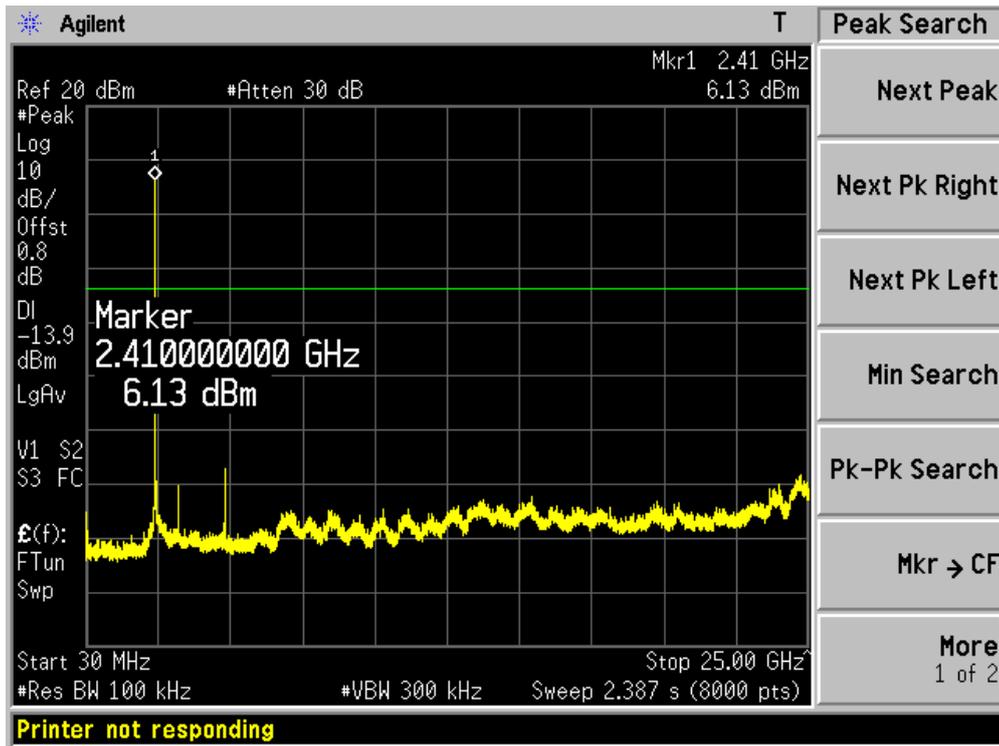
5.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

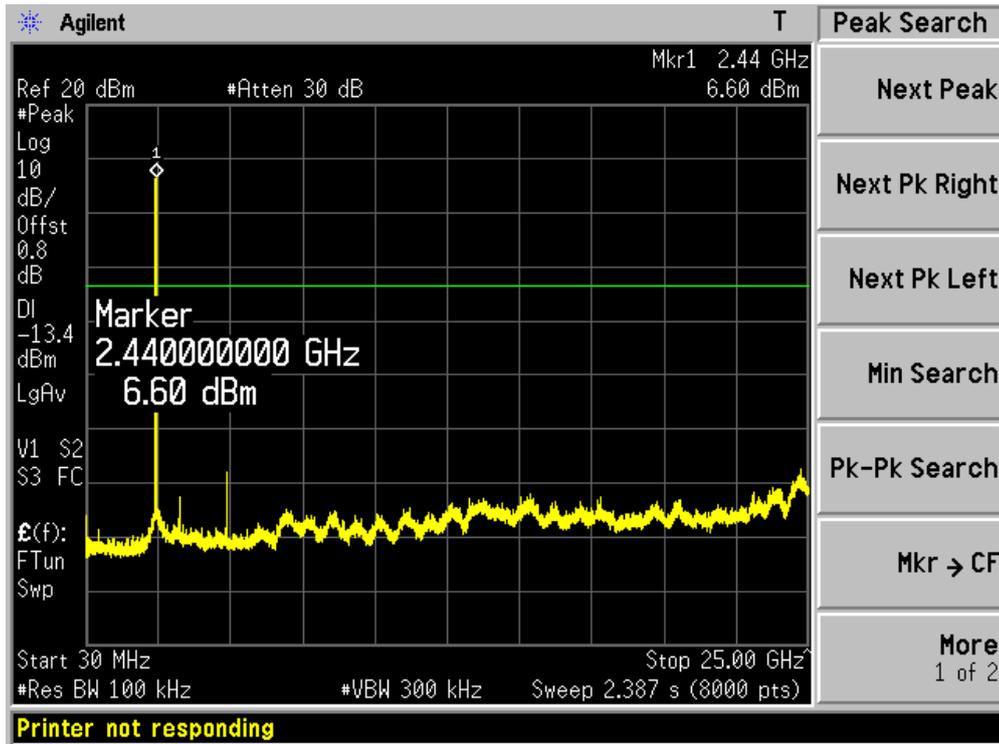
5.6. Test Result

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

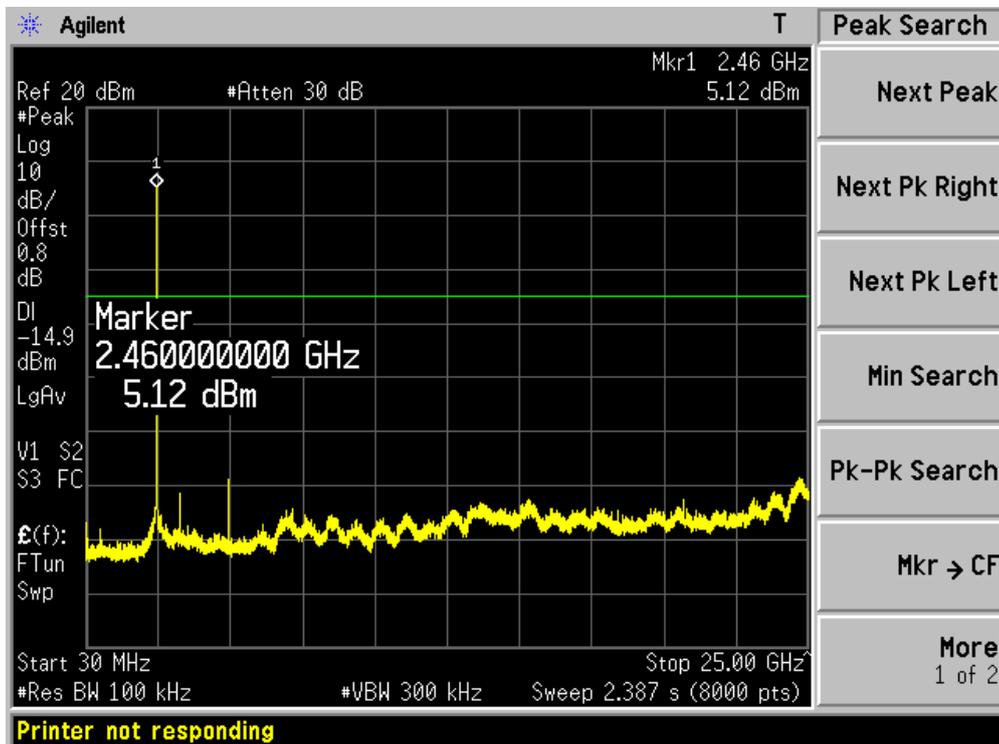
Channel 01 (2412MHz)



Channel 06 (2437MHz)

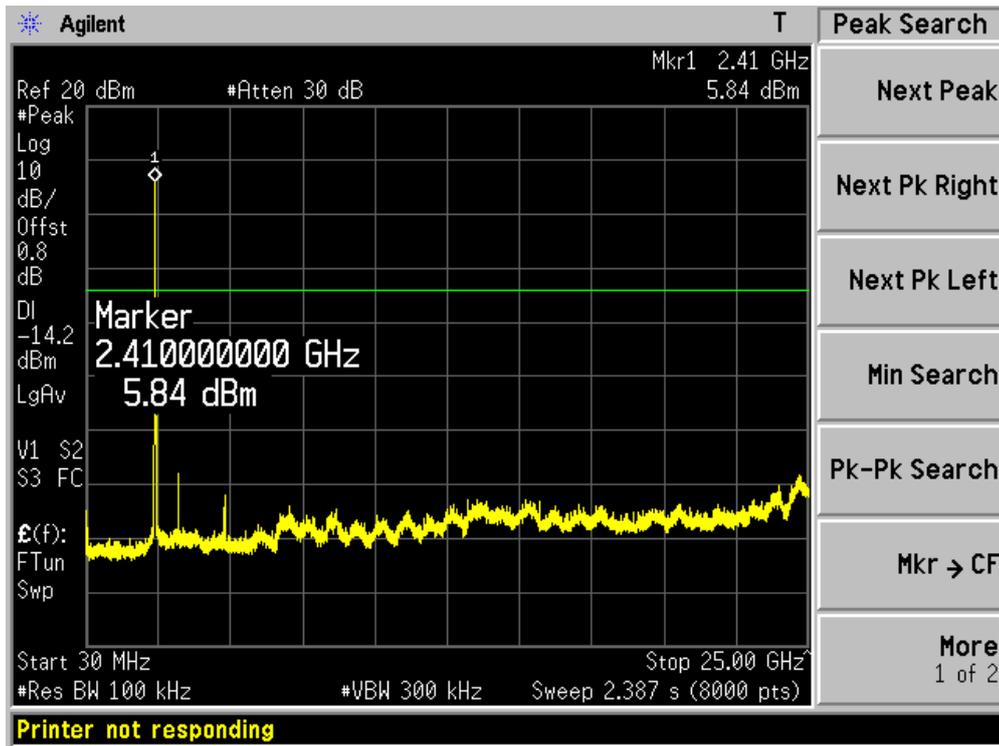


Channel 11 (2462MHz)

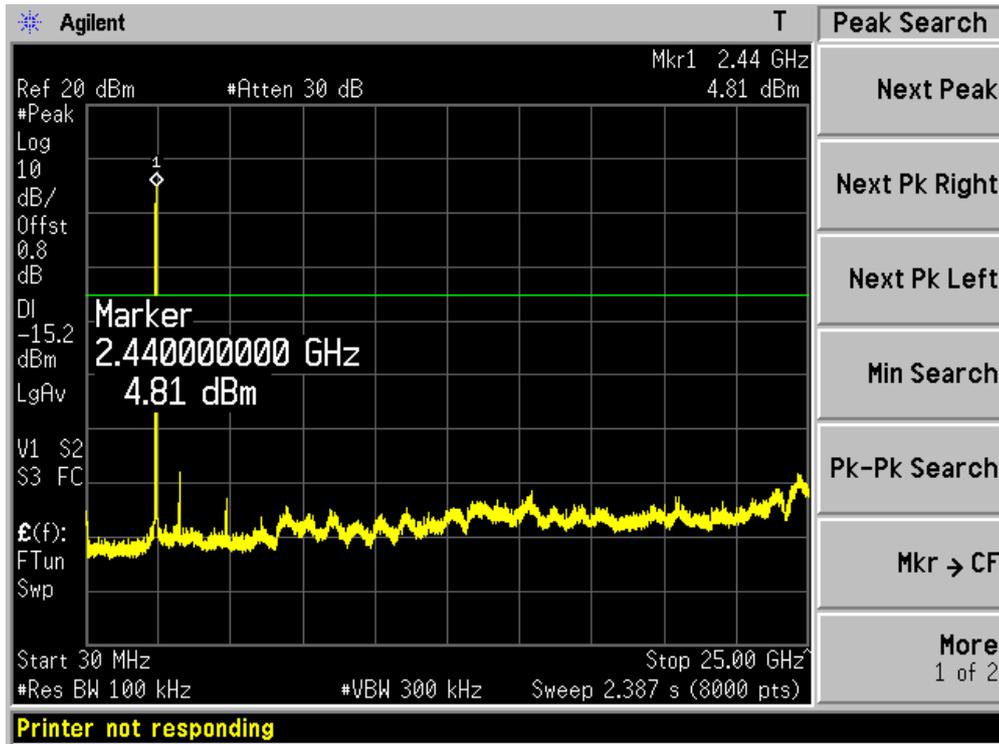


Product	:	Eee PC
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 2: Transmit by 802.11g

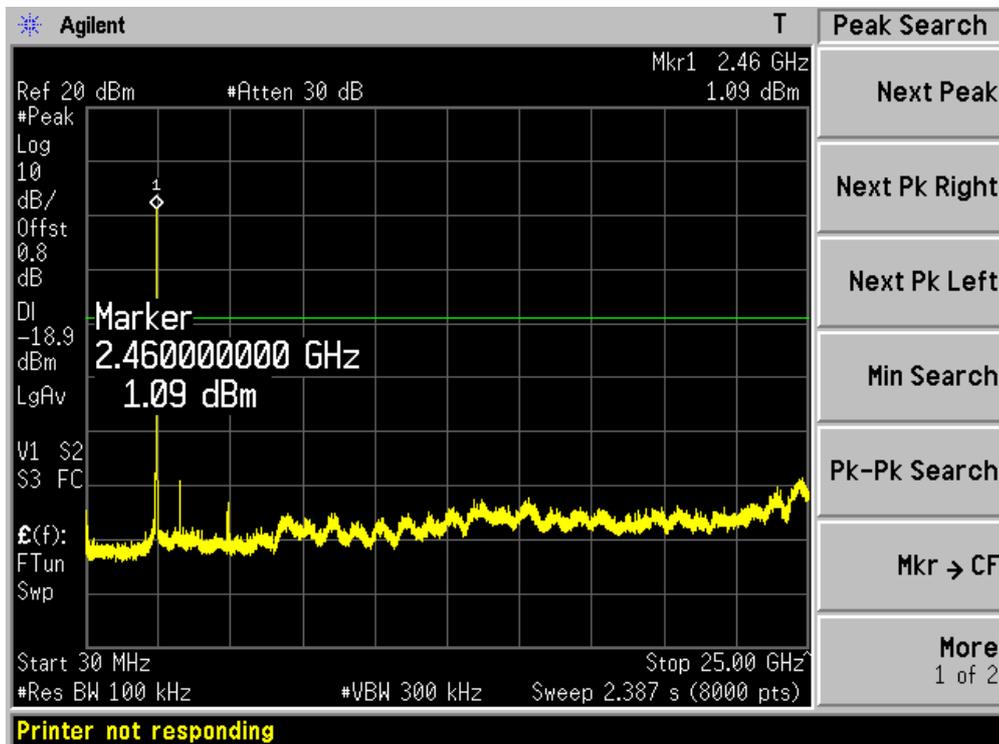
Channel 01 (2412MHz)



Channel 06 (2437MHz)

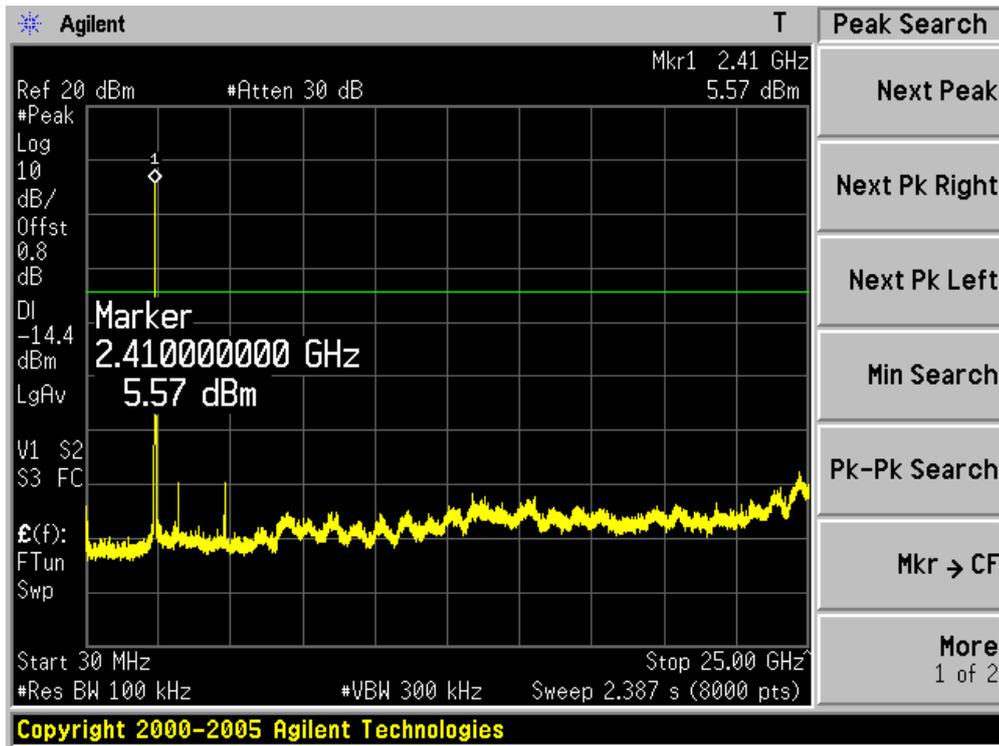


Channel 11 (2462MHz)

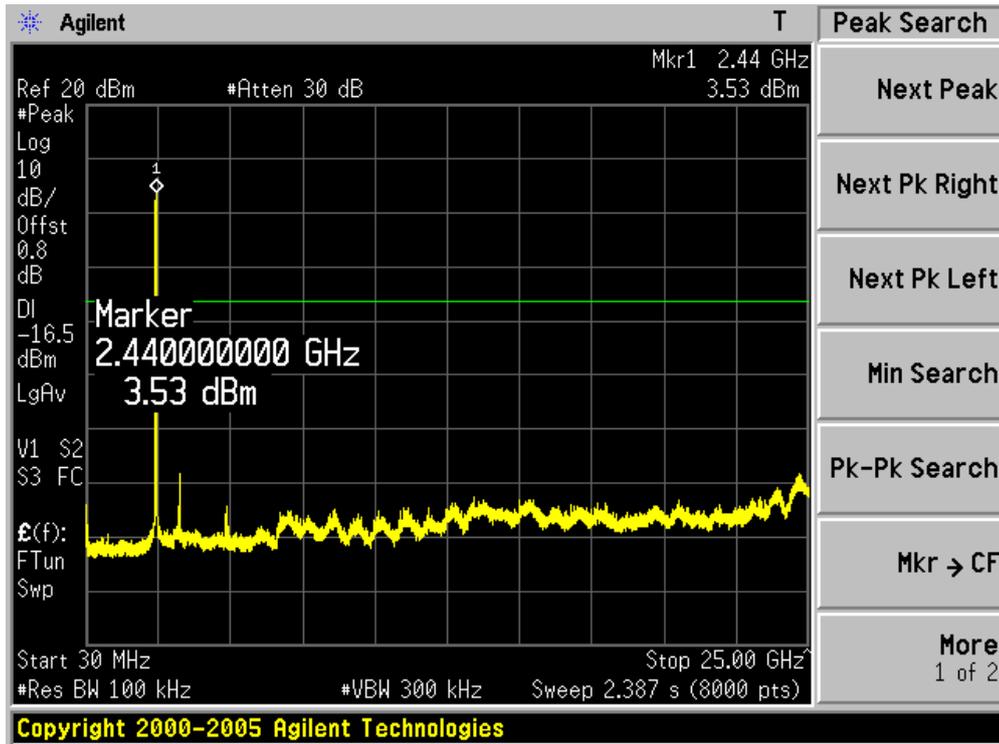


Product	:	Eee PC
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz)

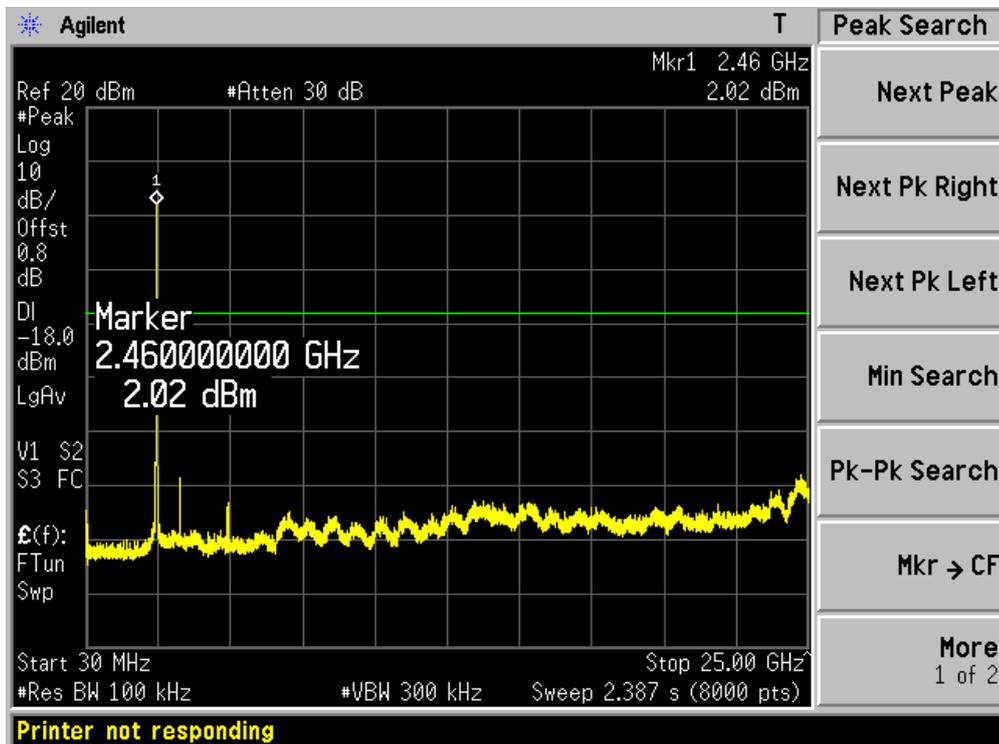
Channel 01 (2412MHz)



Channel 06 (2437MHz)

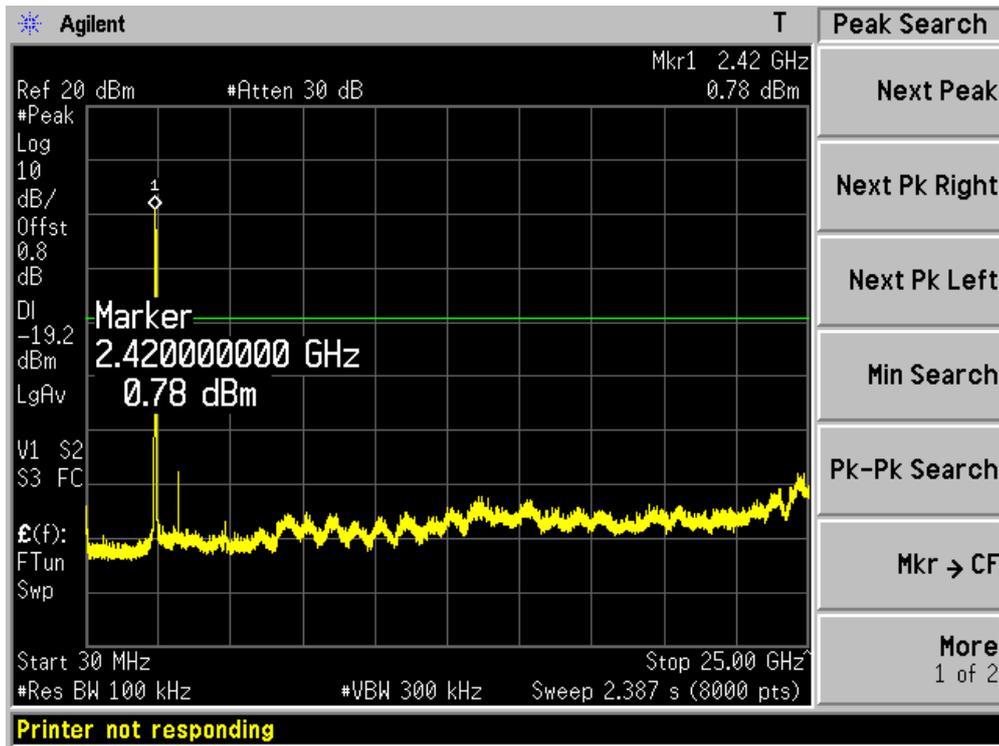


Channel 11 (2462MHz)

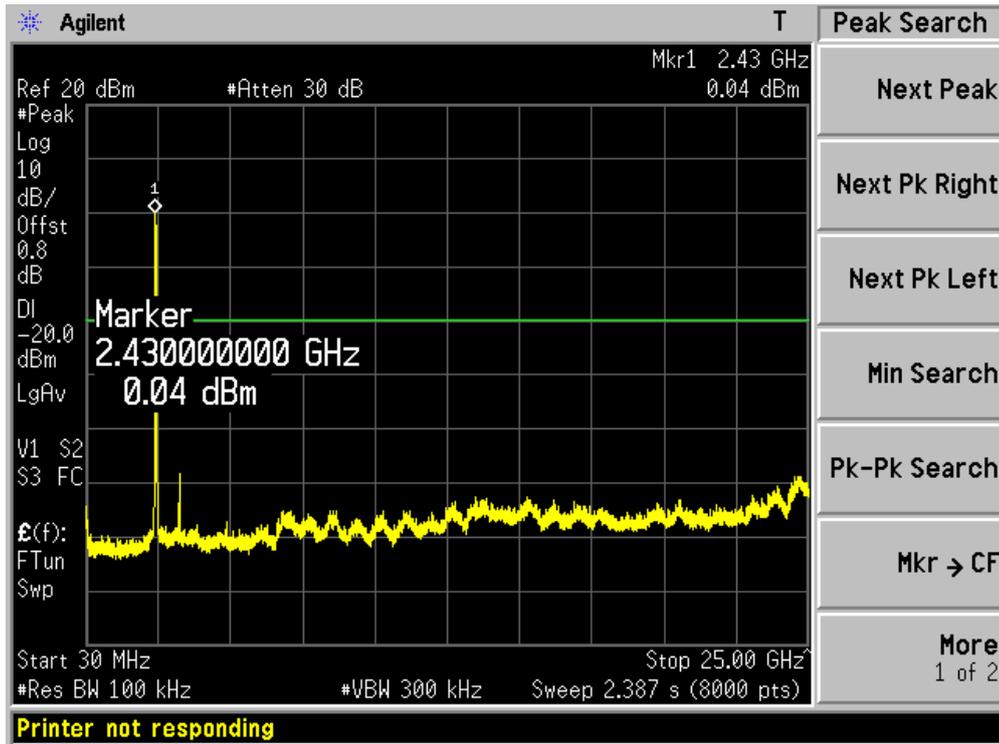


Product	:	Eee PC
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz)

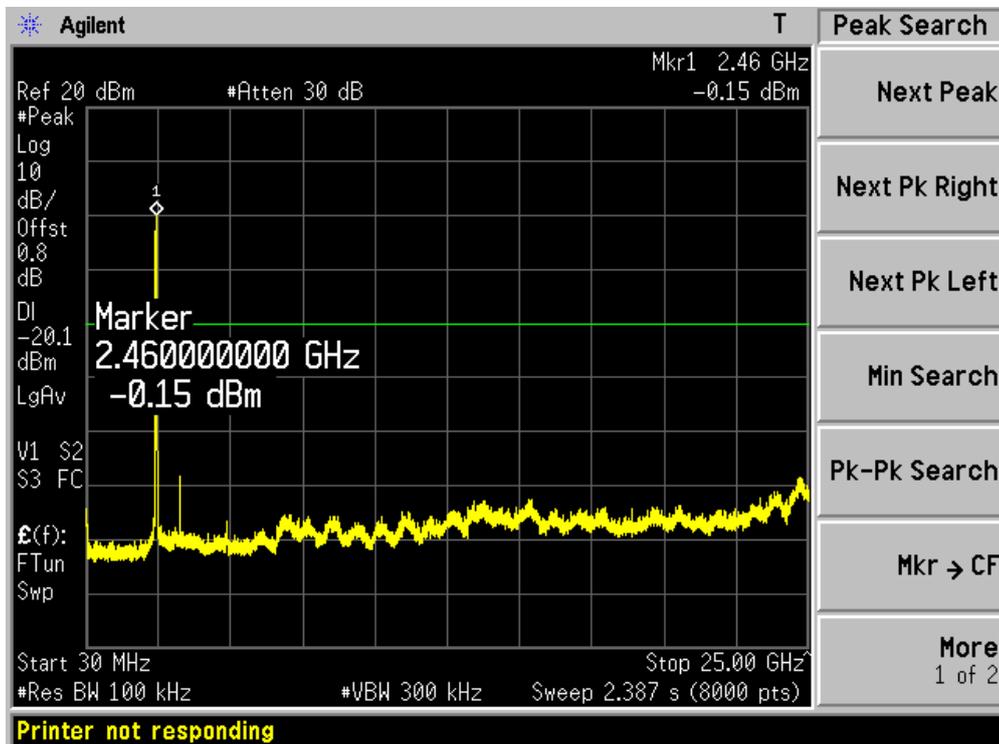
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



6. Radiated Emission Band Edge

6.1. Test Equipment

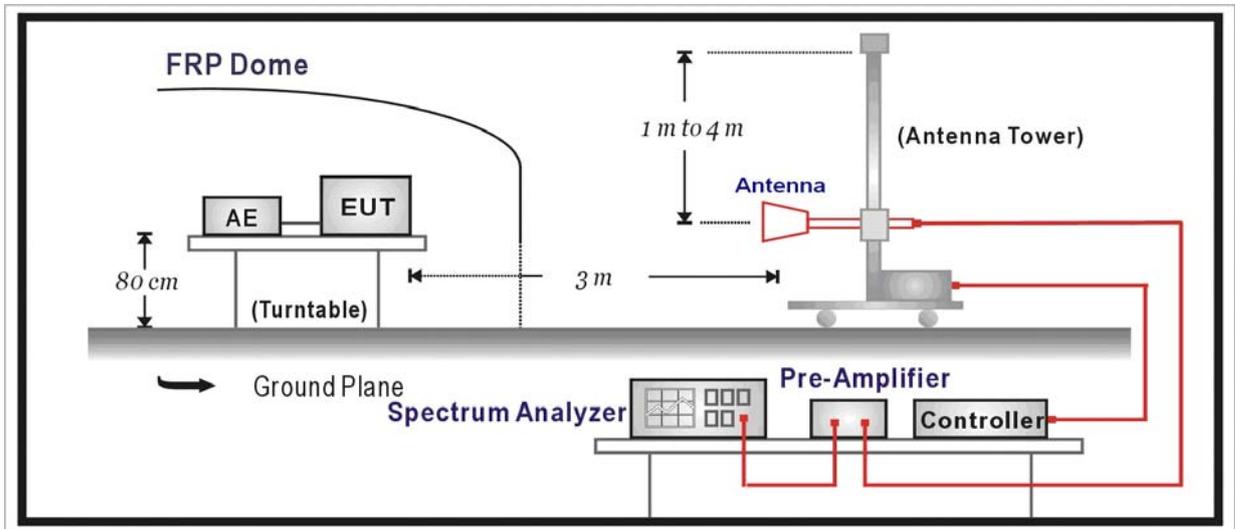
Radiated Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2009.04.23
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	737	2009.11.24
Temperature/Humidity Meter	Zhicheng	ZC1-2	AC5-TH	2010.01.14

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

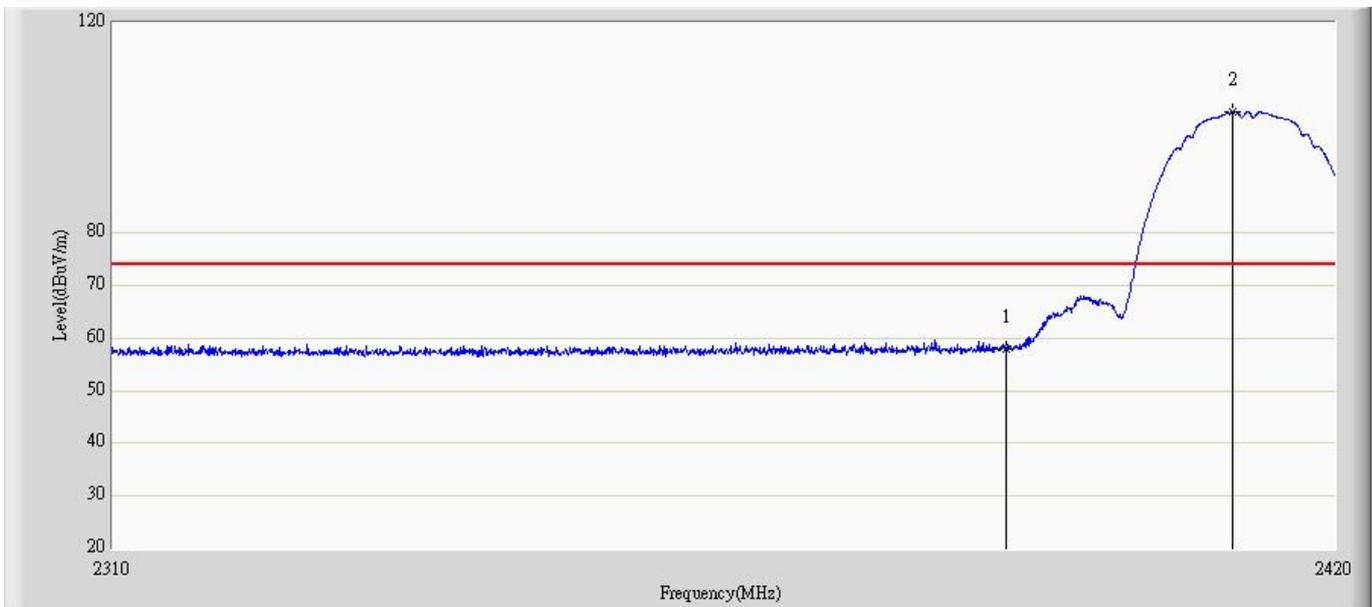
The measurement uncertainty above 1G is defined as ± 3.9 dB

6.6. Test Result

Peak detector: RBW = 1MHz, VBW = 3MHz, sweep time = 200ms;

Average detector: RBW = 1MHz, VBW = 10Hz, sweep time = auto.

Profile: 103S080R	Page No.: 1
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 09:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2412MHz By 802.11b	



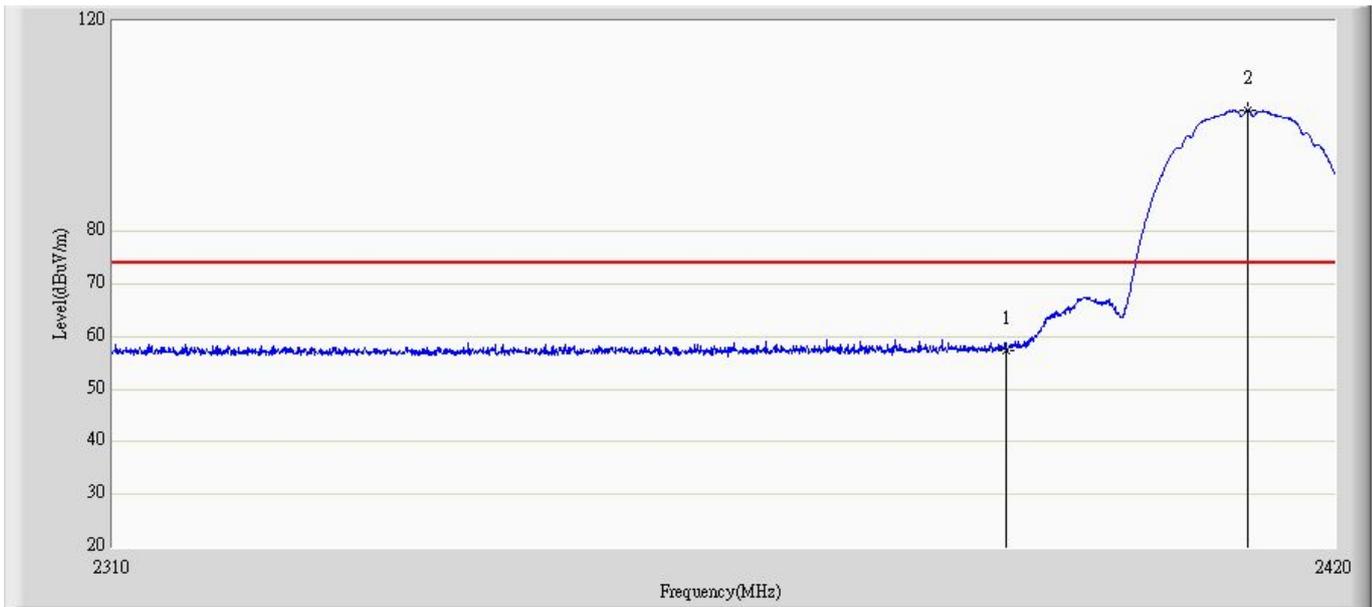
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390	58.045	27.501	-15.955	74	30.543	PK
2	X	*	2410.65	102.945	72.376	N/A	N/A	30.569	PK

Profile: 103S080R	Page No.: 2
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 09:51
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2412MHz By 802.11b	



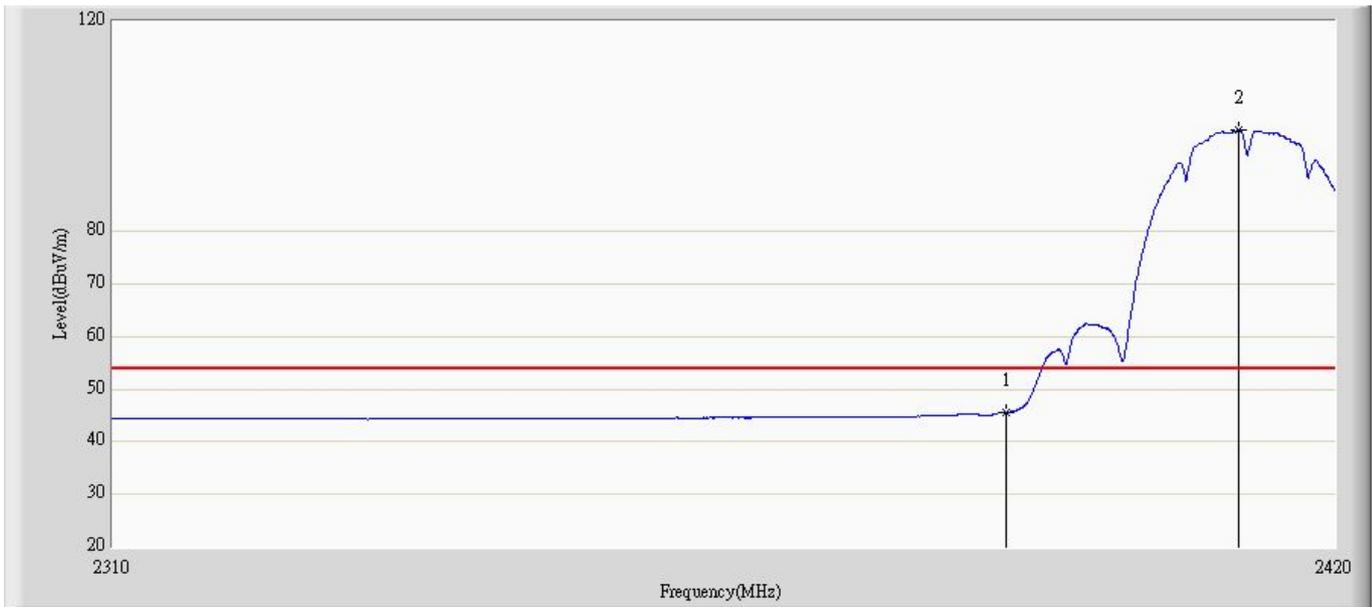
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390	45.663	15.119	-8.337	54	30.543	AV
2	X	*	2410.98	99.154	68.584	N/A	N/A	30.570	AV

Profile: 103S080R	Page No.: 3
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 09:56
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2412MHz By 802.11b	



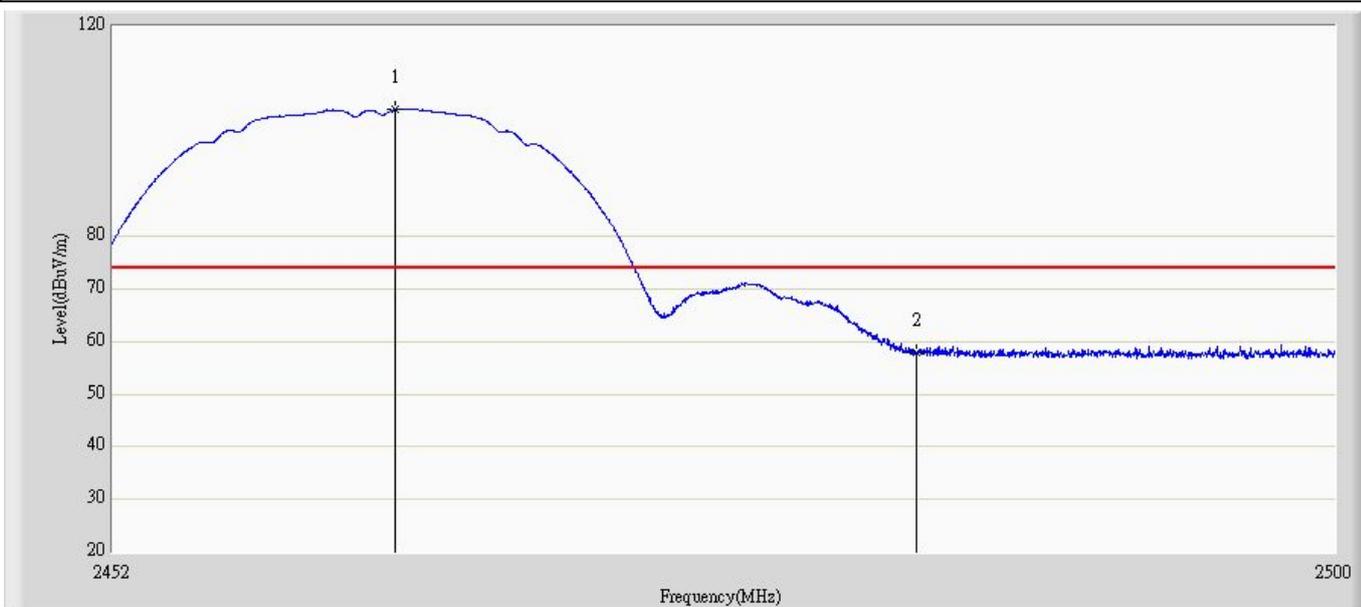
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390	57.445	26.901	-16.555	74	30.543	PK
2	X	*	2412.025	102.995	72.416	N/A	N/A	30.579	PK

Profile: 103S080R	Page No.: 4
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 09:57
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2412MHz By 802.11b	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390	45.538	14.994	-8.462	54	30.543	AV
2	X	*	2411.2	99.403	68.831	N/A	N/A	30.572	AV

Profile: 103S080R	Page No.: 5
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 10:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2462MHz By 802.11b	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1	X	*	2463.04	104.134	73.361	N/A	N/A	30.773	PK
2			2483.5	57.985	27.346	-16.015	74	30.638	PK

Profile: 103S080R	Page No.: 6
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 10:05
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2462MHz By 802.11b	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1	X	*	2461.336	100.222	69.439	N/A	N/A	30.783	AV
2			2483.5	45.366	14.727	-8.634	54	30.638	AV

Profile: 103S080R	Page No.: 7
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 10:11
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2462MHz By 802.11b	



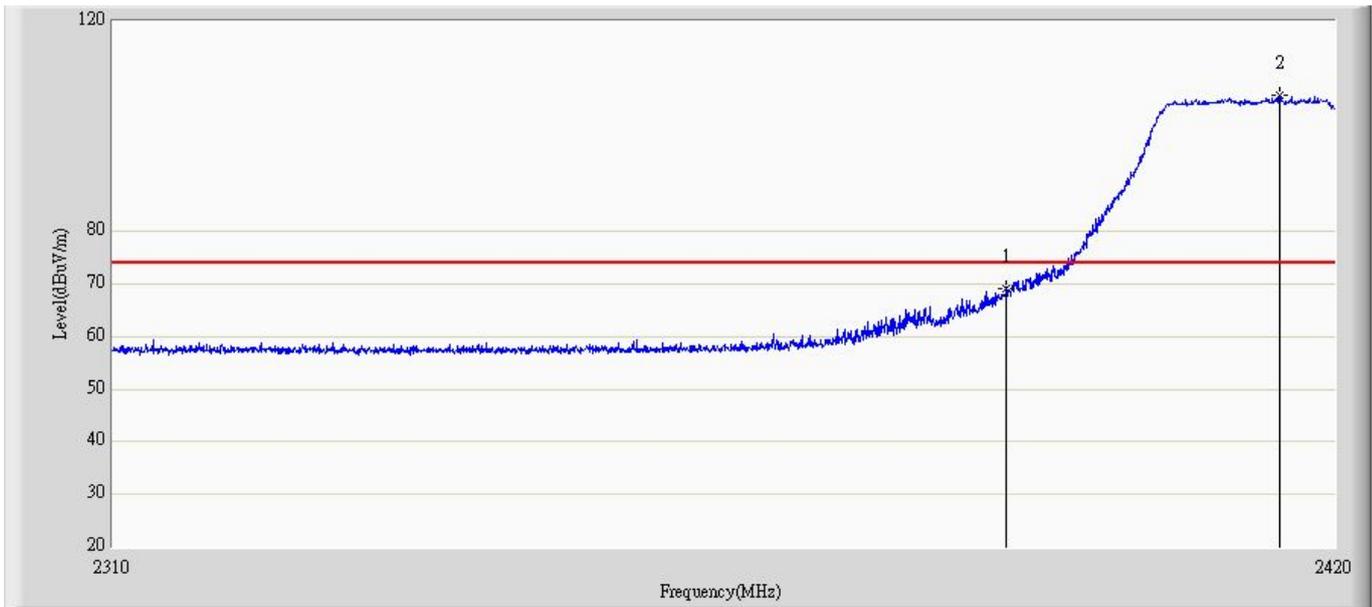
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1	X	*	2463.424	104.245	73.475	N/A	N/A	30.770	PK
2			2483.5	57.841	27.202	-16.159	74	30.638	PK

Profile: 103S080R	Page No.: 8
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 10:12
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 1: Transmit at channel 2462MHz By 802.11b	



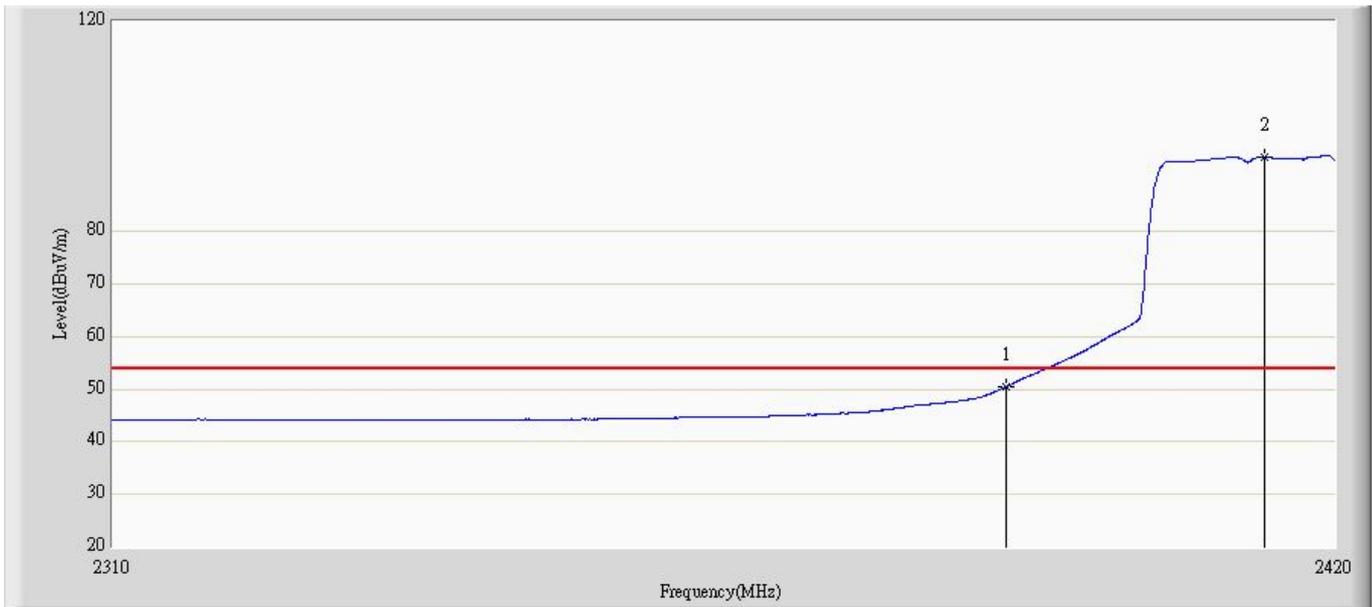
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1	X	*	2461.408	100.109	69.327	N/A	N/A	30.782	AV
2			2483.5	45.498	14.859	-8.502	54	30.638	AV

Profile: 103S080R	Page No.: 9
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 10:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 2412MHz By 802.11g	



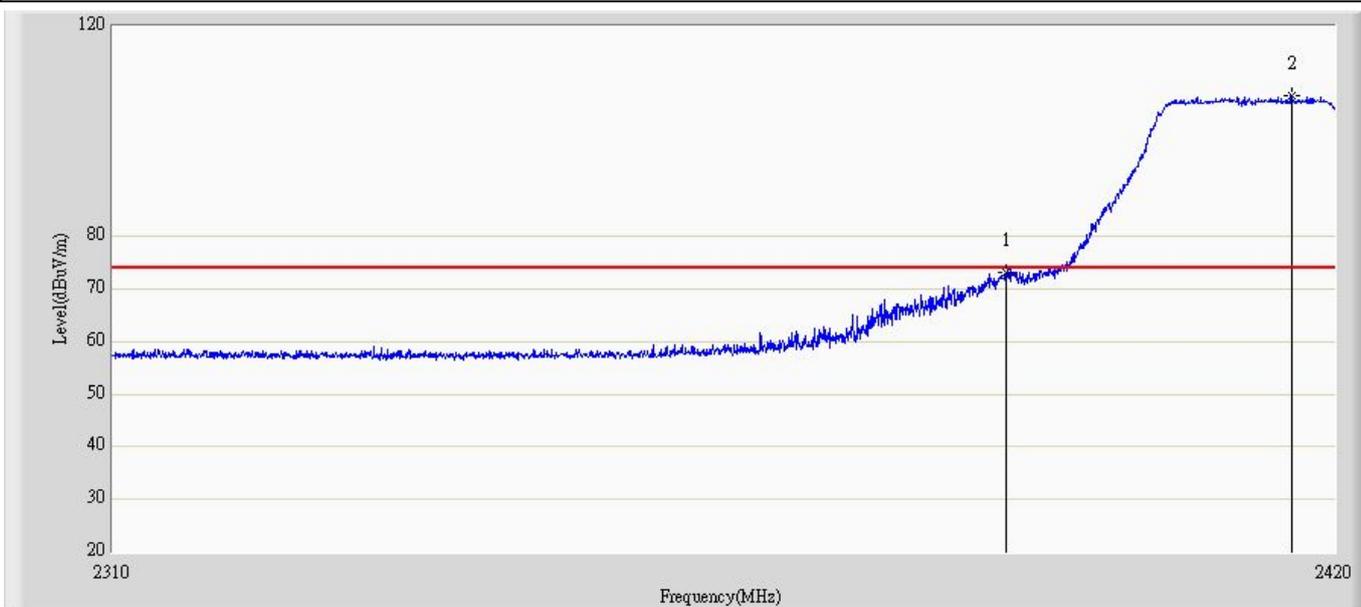
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390	69.046	38.502	-4.954	74	30.543	PK
2	X	*	2414.995	105.953	75.348	N/A	N/A	30.605	PK

Profile: 103S080R	Page No.: 10
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 10:18
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 2412MHz By 802.11g	



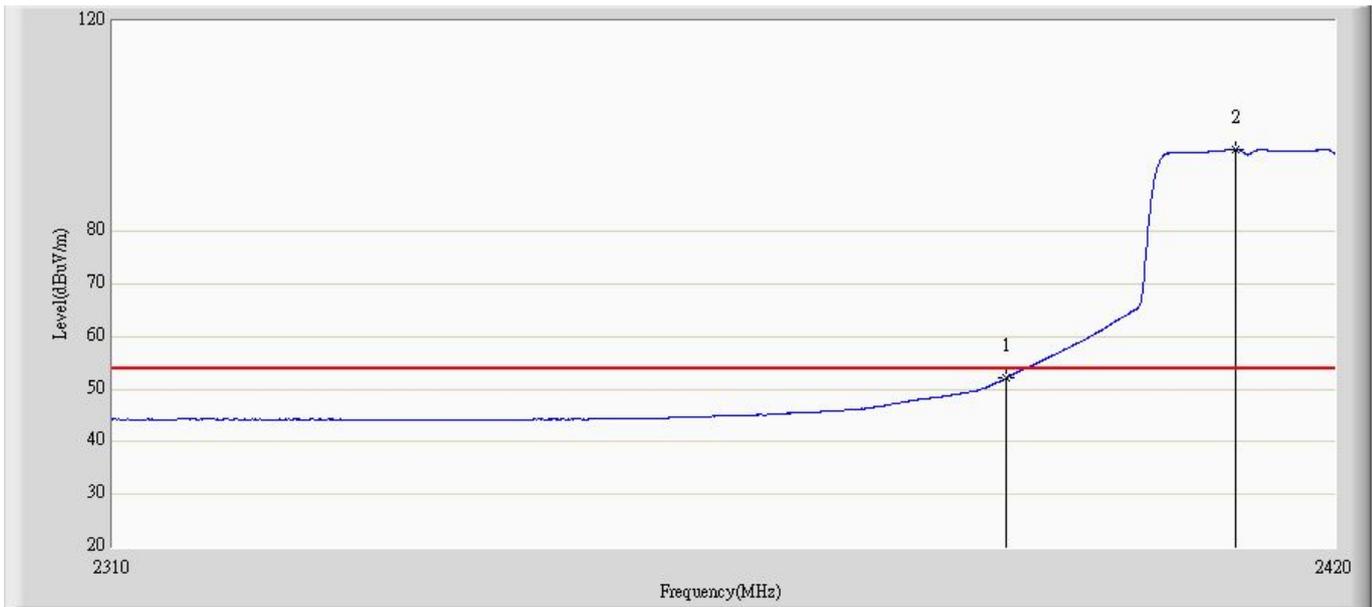
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390	50.542	19.998	-3.458	54	30.543	AV
2	X	*	2413.62	94.145	63.552	N/A	N/A	30.593	AV

Profile: 103S080R	Page No.: 11
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 10:26
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 2412MHz By 802.11g	



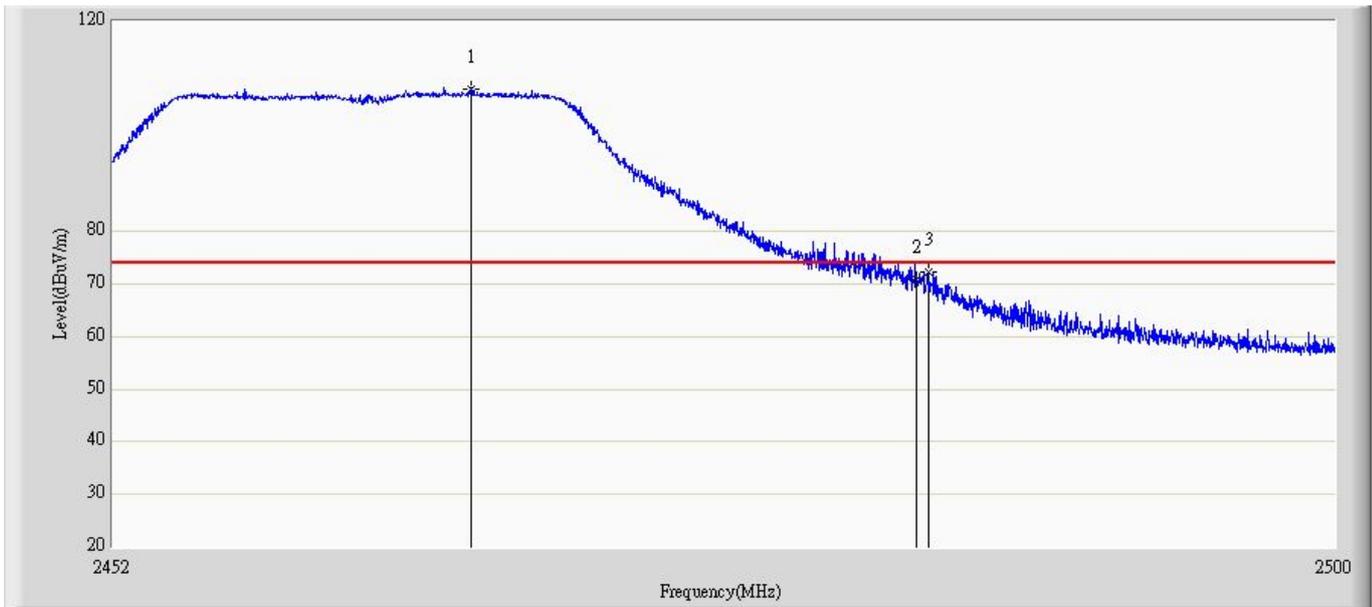
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390	73.24	42.696	-0.76	74	30.543	PK
2	X	*	2416.15	106.854	76.239	N/A	N/A	30.615	PK

Profile: 103S080R	Page No.: 12
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 10:27
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 2412MHz By 802.11g	



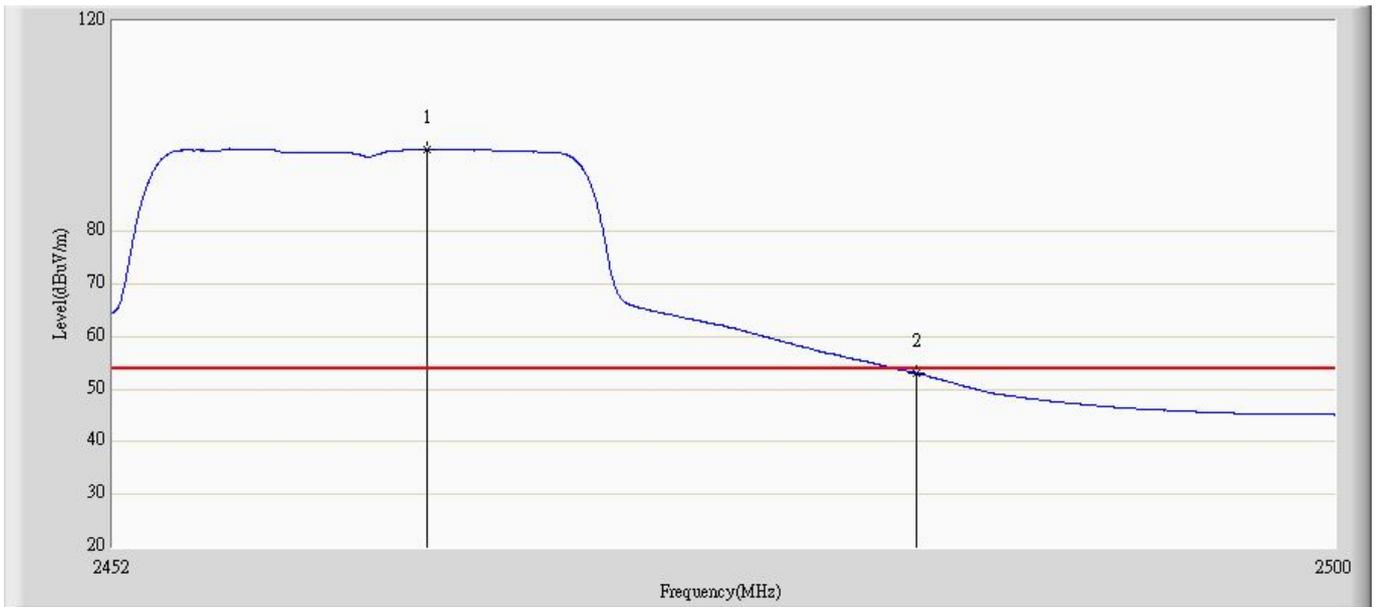
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390	52.169	21.625	-1.831	54	30.543	AV
2	X	*	2410.87	95.587	65.017	N/A	N/A	30.570	AV

Profile: 103S080R	Page No.: 13
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 10:33
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 2462MHz By 802.11g	



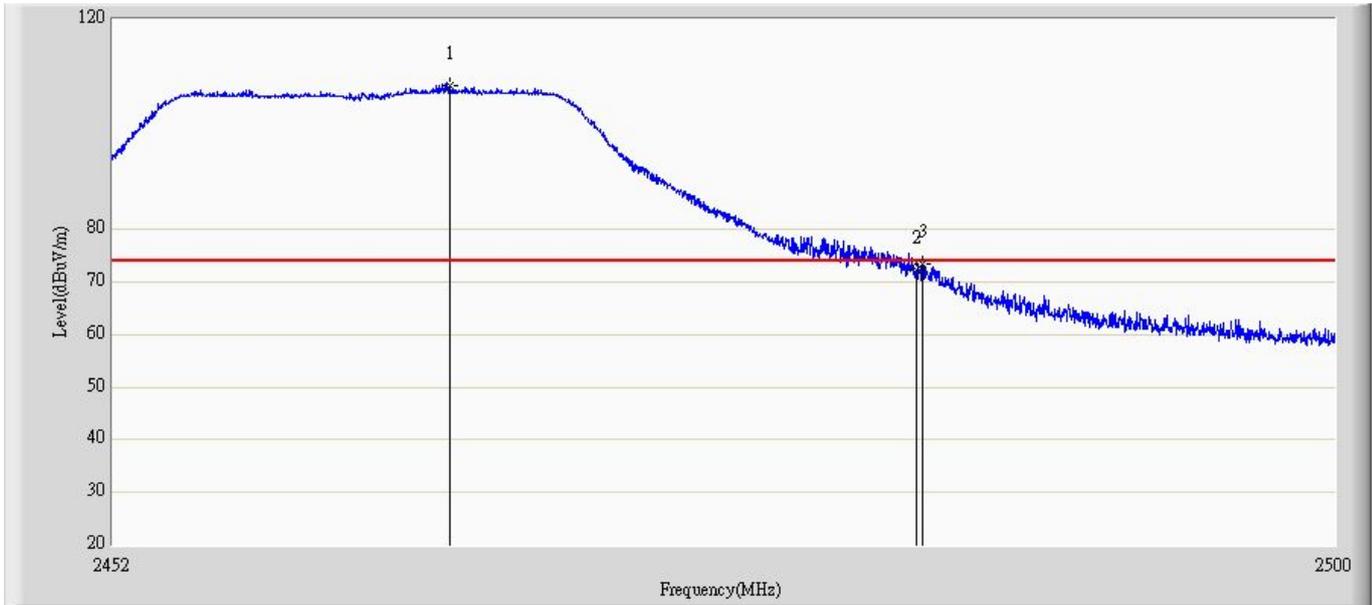
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1	X	*	2465.968	107.212	76.46	N/A	N/A	30.752	PK
2			2483.5	70.776	40.137	-3.224	74	30.638	PK
3			2483.944	72.402	41.765	-1.598	74	30.637	PK

Profile: 103S080R	Page No.: 14
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 10:34
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 2462MHz By 802.11g	



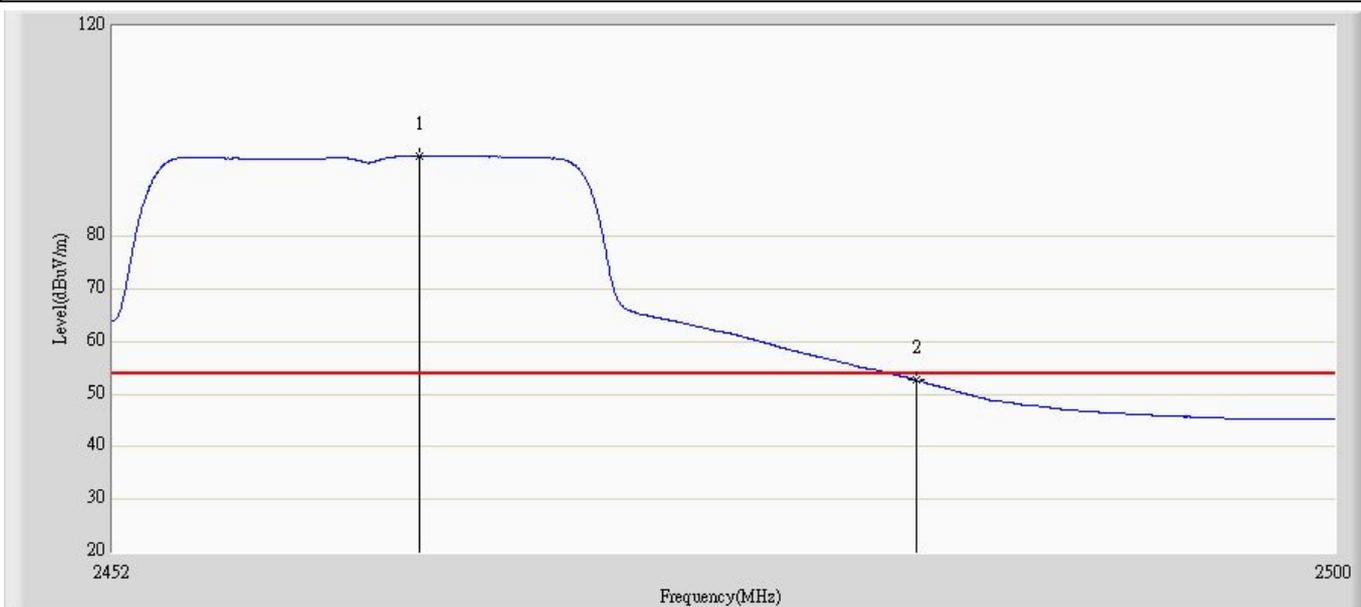
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1	X	*	2464.24	95.555	64.791	N/A	N/A	30.764	AV
2			2483.5	53.014	22.375	-0.986	54	30.638	AV

Profile: 103S080R	Page No.: 15
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 10:40
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 2: Transmit at channel 2462MHz By 802.11g	



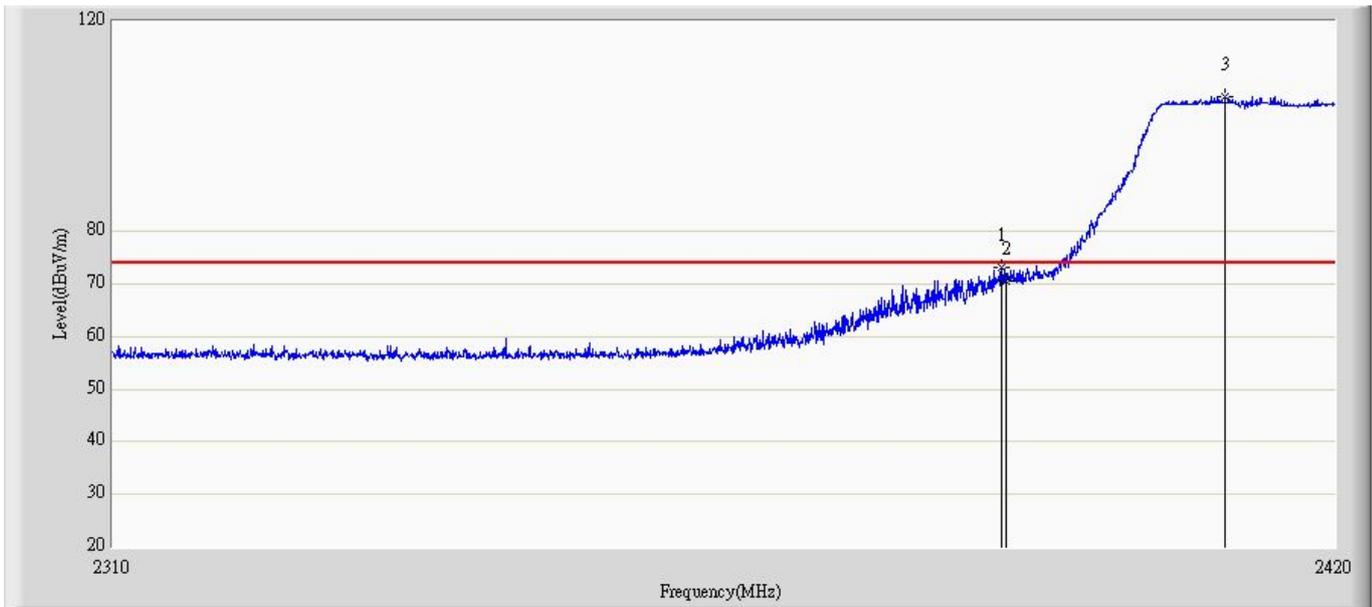
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1	X	*	2465.152	107.469	76.711	N/A	N/A	30.758	PK
2			2483.5	72.356	41.717	-1.644	74	30.638	PK
3			2483.728	73.376	42.738	-0.624	74	30.638	PK

Profile: 103S080R	Page No.: 16
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 10:41
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2462MHz By 802.11n(20MHz)	



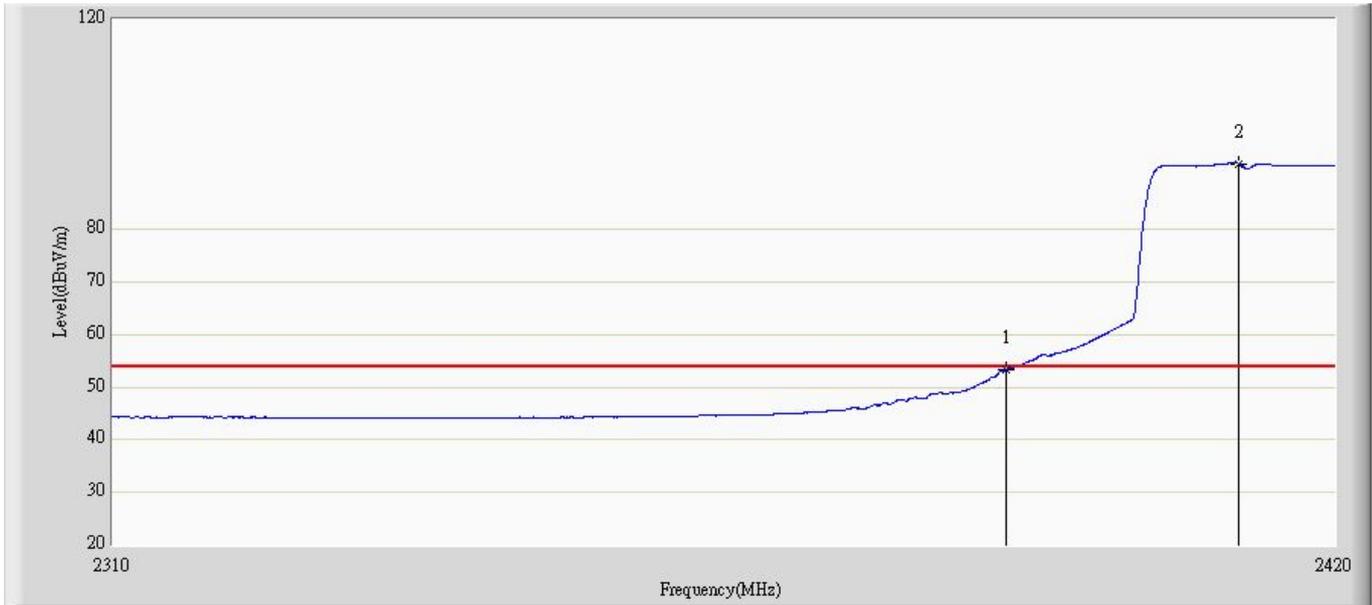
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1	X	*	2463.952	95.288	64.522	N/A	N/A	30.766	AV
2			2483.5	52.631	21.992	-1.369	54	30.638	AV

Profile: 103S080R	Page No.: 17
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 10:50
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2412MHz By 802.11n(20MHz)	



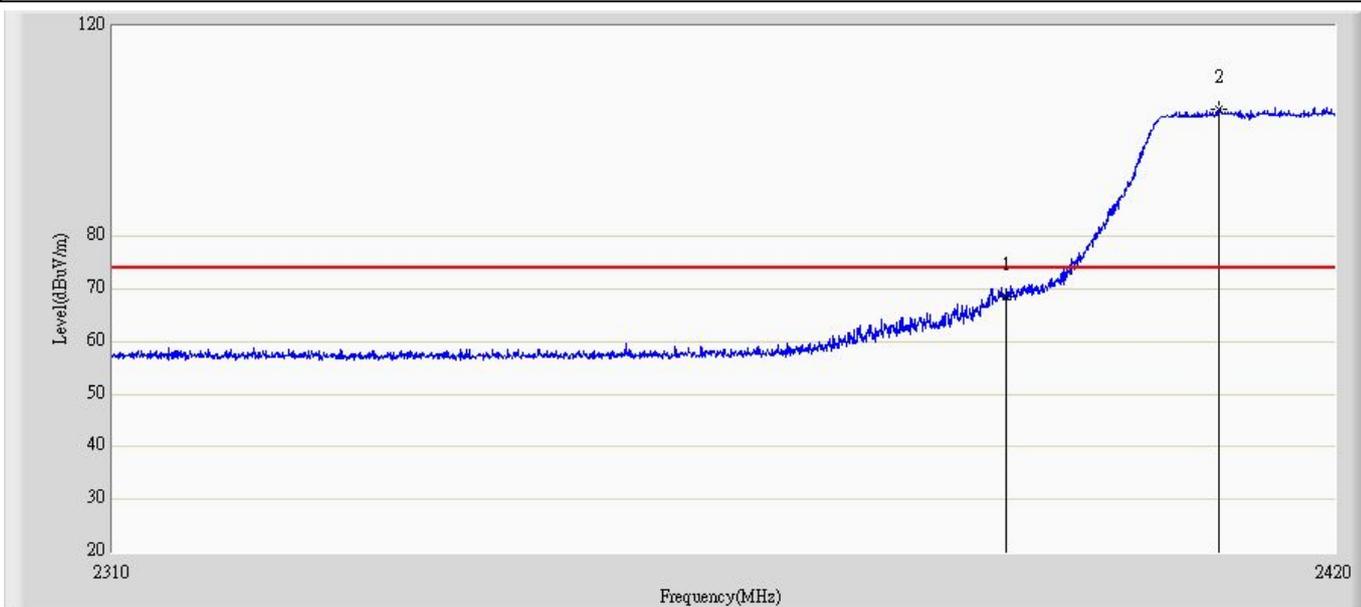
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2389.475	73.171	42.624	-0.829	74	30.547	PK
2			2390	70.709	40.166	-3.291	74	30.543	PK
3	X	*	2409.935	105.507	74.94	N/A	N/A	30.567	PK

Profile: 103S080R	Page No.: 18
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 10:52
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2412MHz By 802.11n(20MHz)	



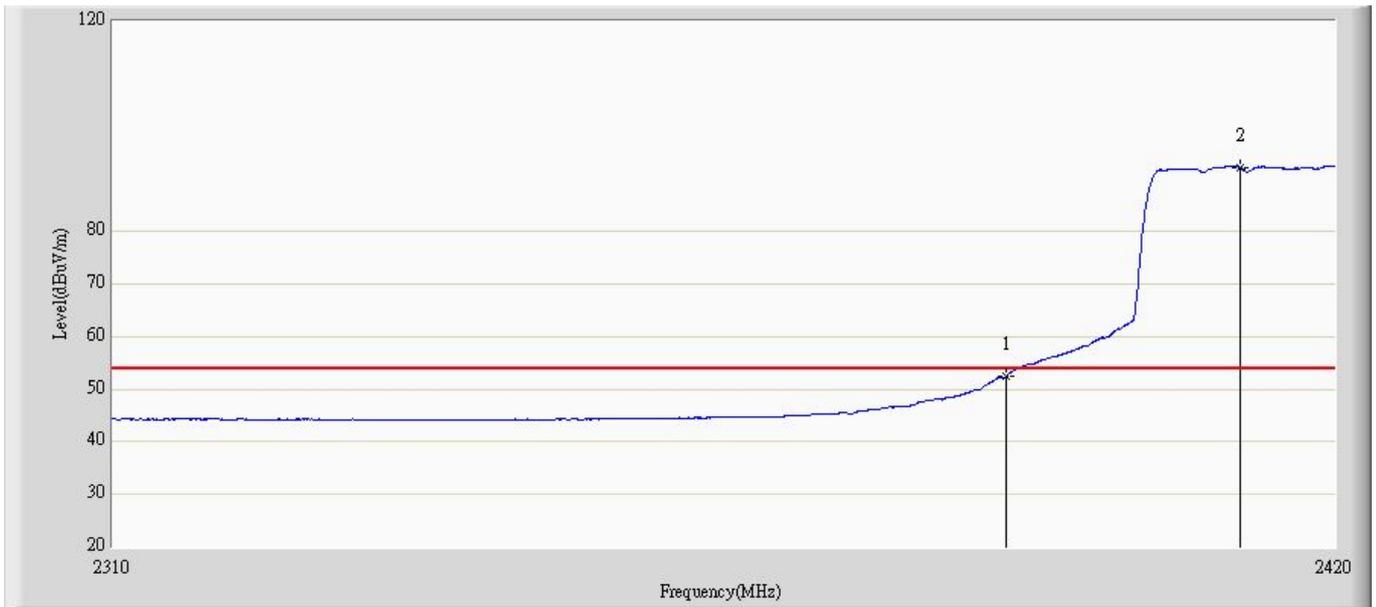
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390	53.445	22.901	-0.555	54	30.543	AV
2	X	*	2411.2	92.513	61.941	N/A	N/A	30.572	AV

Profile: 103S080R	Page No.: 19
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 11:04
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2412MHz By 802.11n(20MHz)	



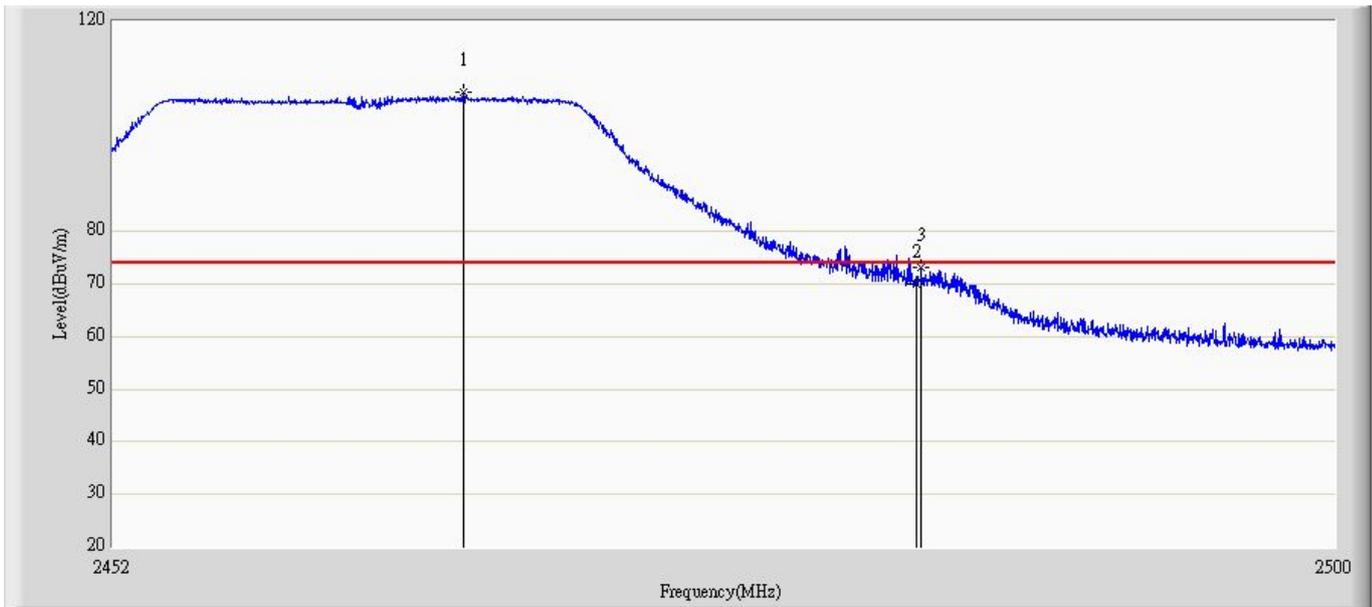
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390	68.481	37.937	-5.519	74	30.543	PK
2	X	*	2409.33	104.132	73.567	N/A	N/A	30.565	PK

Profile: 103S080R	Page No.: 20
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 11:06
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2412MHz By 802.11n(20MHz)	



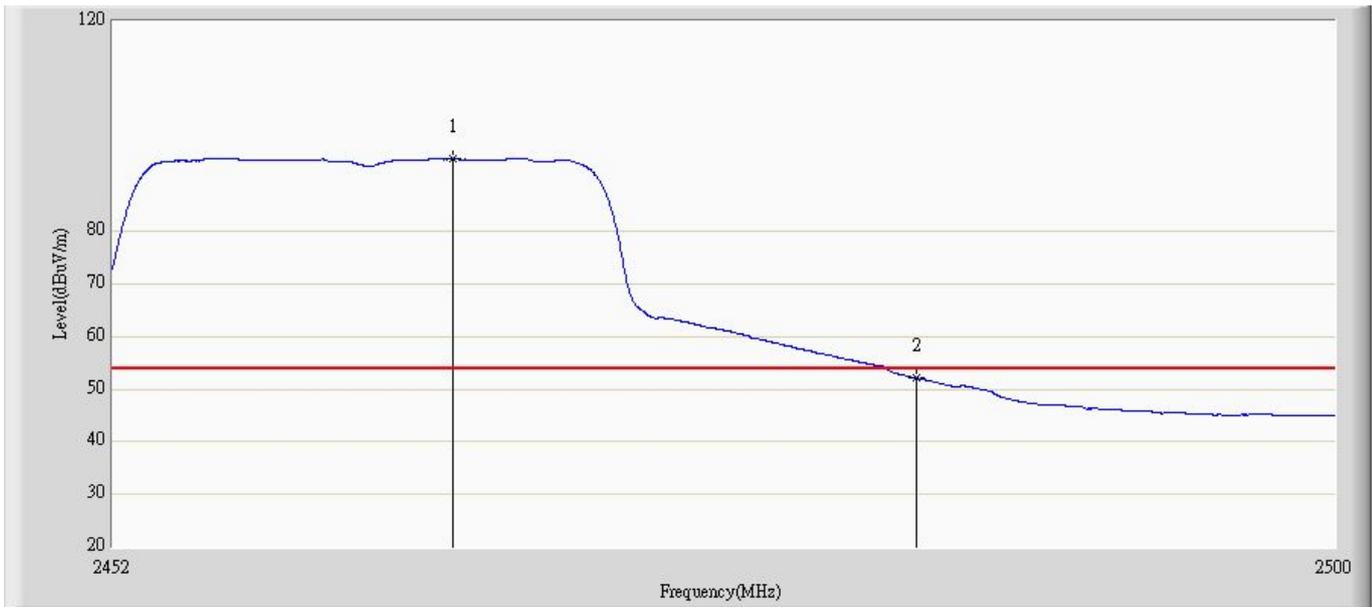
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390	52.499	21.955	-1.501	54	30.543	AV
2	X	*	2411.365	92.113	61.54	N/A	N/A	30.573	AV

Profile: 103S080R	Page No.: 21
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 11:14
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2462MHz By 802.11n(20MHz)	



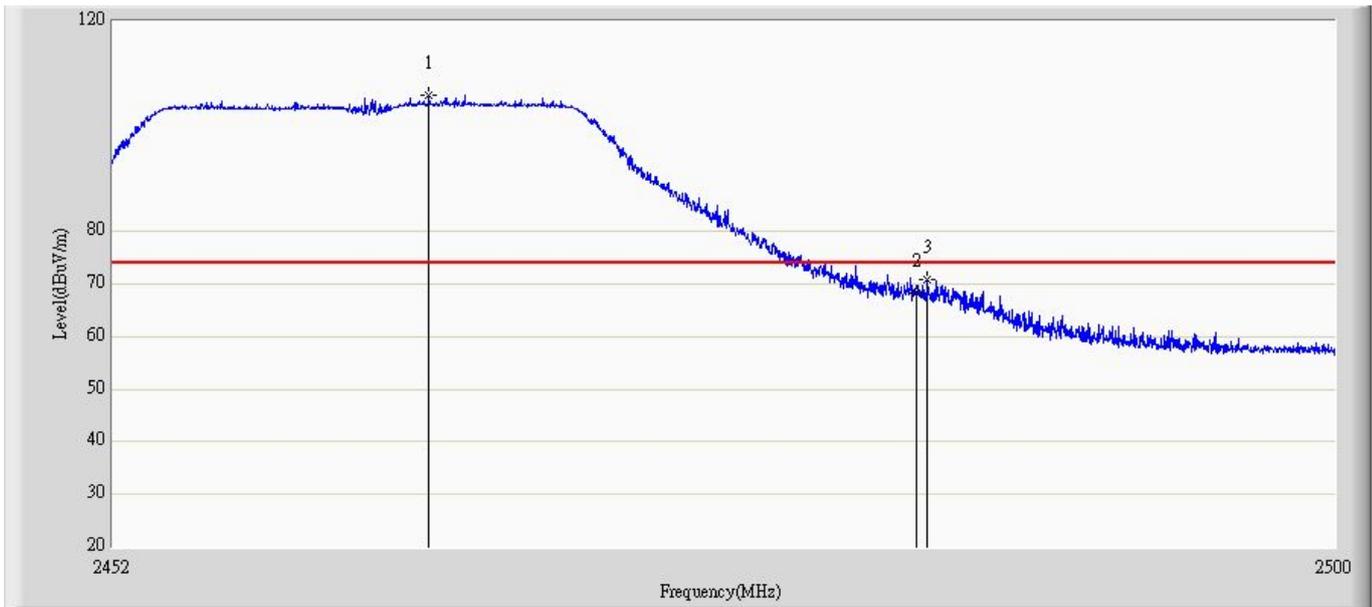
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1	X	*	2465.68	106.429	75.675	N/A	N/A	30.754	PK
2			2483.5	70.12	39.481	-3.88	74	30.638	PK
3			2483.656	73.282	42.644	-0.718	74	30.638	PK

Profile: 103S080R	Page No.: 22
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 11:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2462MHz By 802.11n(20MHz)	



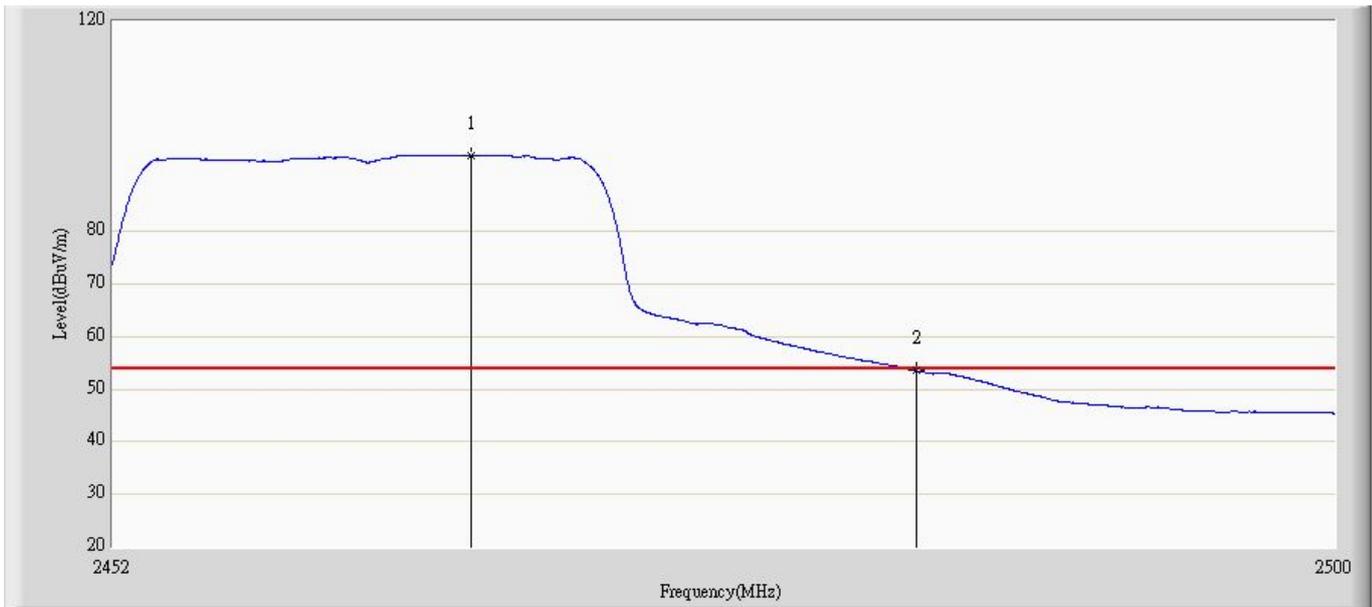
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1	X	*	2465.296	93.749	62.992	N/A	N/A	30.757	AV
2			2483.5	52.138	21.499	-1.862	54	30.638	AV

Profile: 103S080R	Page No.: 23
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 11:20
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2412MHz By 802.11n(20MHz)	



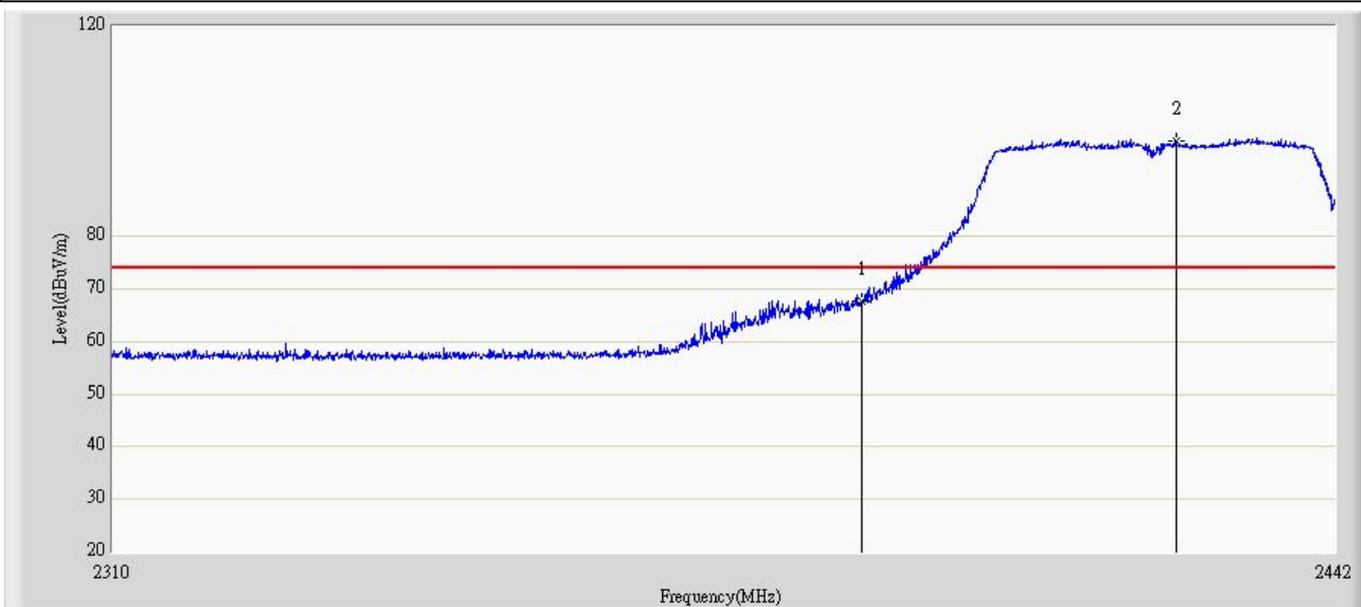
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1	X	*	2464.336	105.873	75.109	N/A	N/A	30.764	PK
2			2483.5	68.361	37.722	-5.639	74	30.638	PK
3			2483.896	70.78	40.143	-3.22	74	30.637	PK

Profile: 103S080R	Page No.: 24
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 11:21
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 3: Transmit at channel 2462MHz By 802.11n(20MHz)	



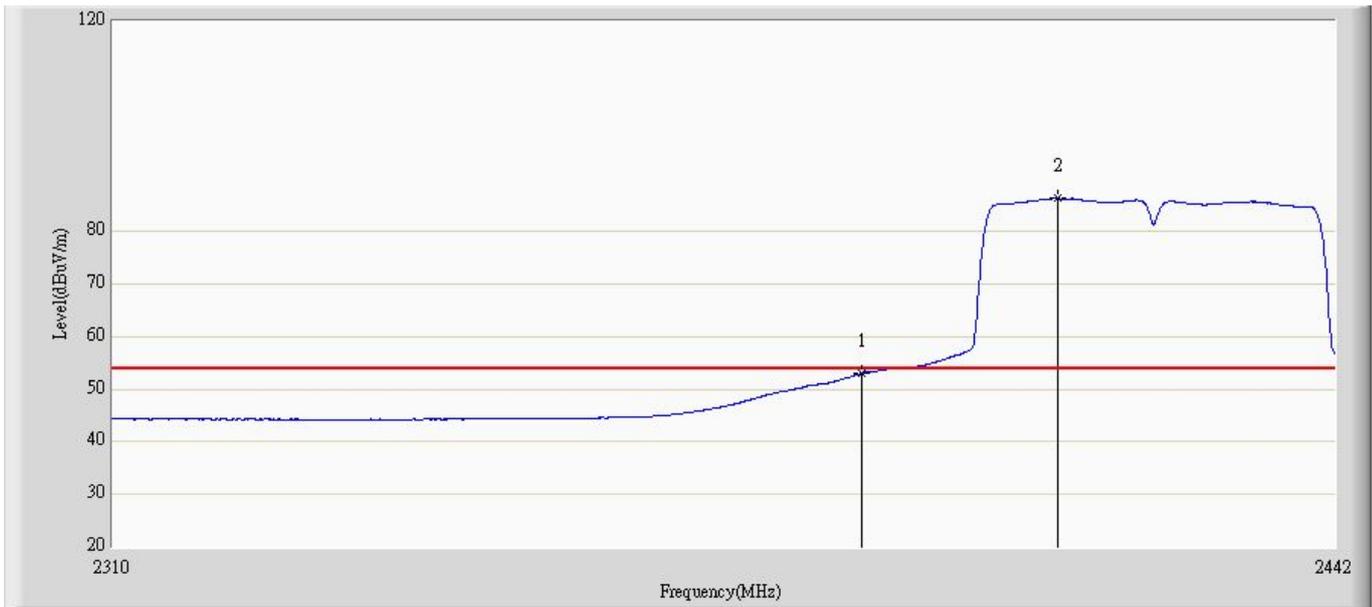
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1	X	*	2465.968	94.459	63.707	N/A	N/A	30.752	AV
2			2483.5	53.482	22.843	-0.518	54	30.638	AV

Profile: 103S080R	Page No.: 25
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 11:28
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2422MHz By 802.11n(40MHz)	



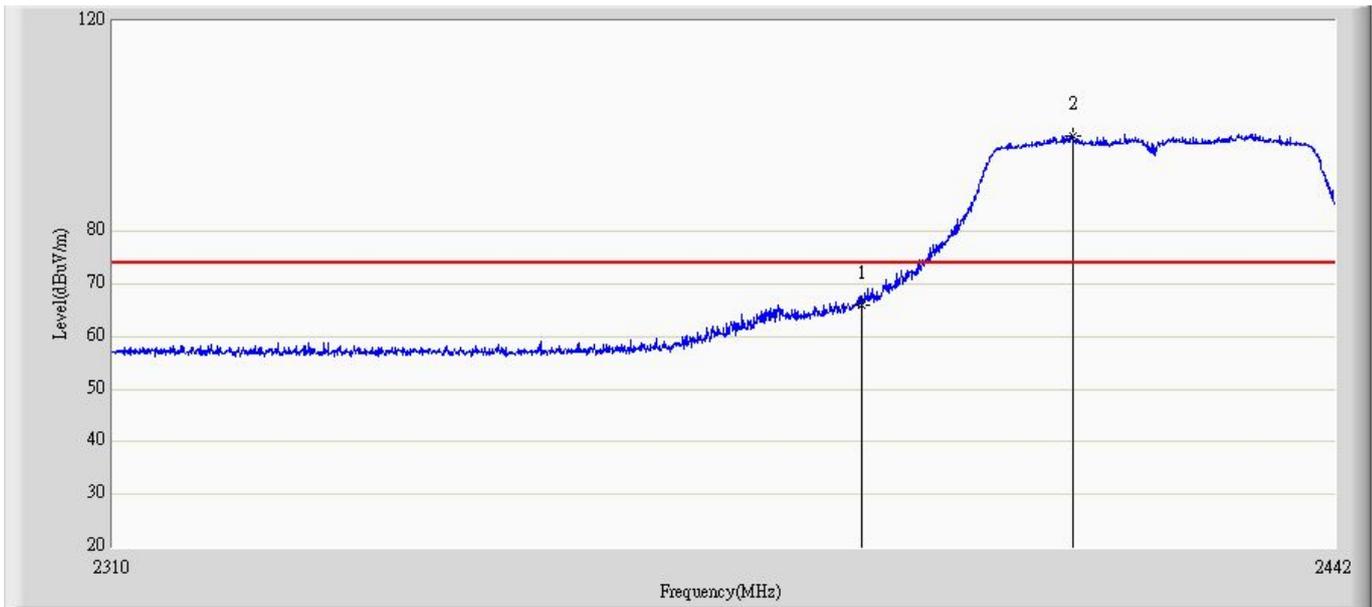
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390	67.748	37.204	-6.252	74	30.543	PK
2	X	*	2424.444	98.106	67.417	N/A	N/A	30.689	PK

Profile: 103S080R	Page No.: 26
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 11:30
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2422MHz By 802.11n(40MHz)	



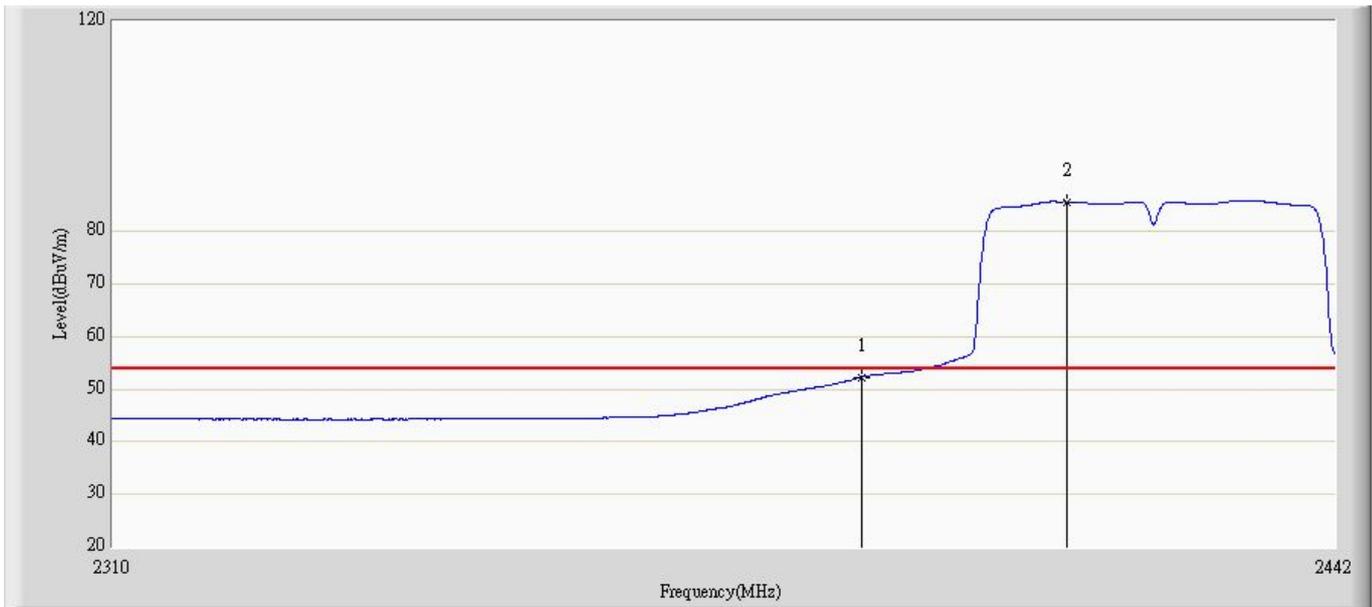
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390	52.944	22.4	-1.056	54	30.543	AV
2	X	*	2411.442	86.253	55.679	N/A	N/A	30.574	AV

Profile: 103S080R	Page No.: 27
Engineer: Jame	
Site: AC1	Time: 2010/03/25 - 11:42
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2422MHz By 802.11n(40MHz)	



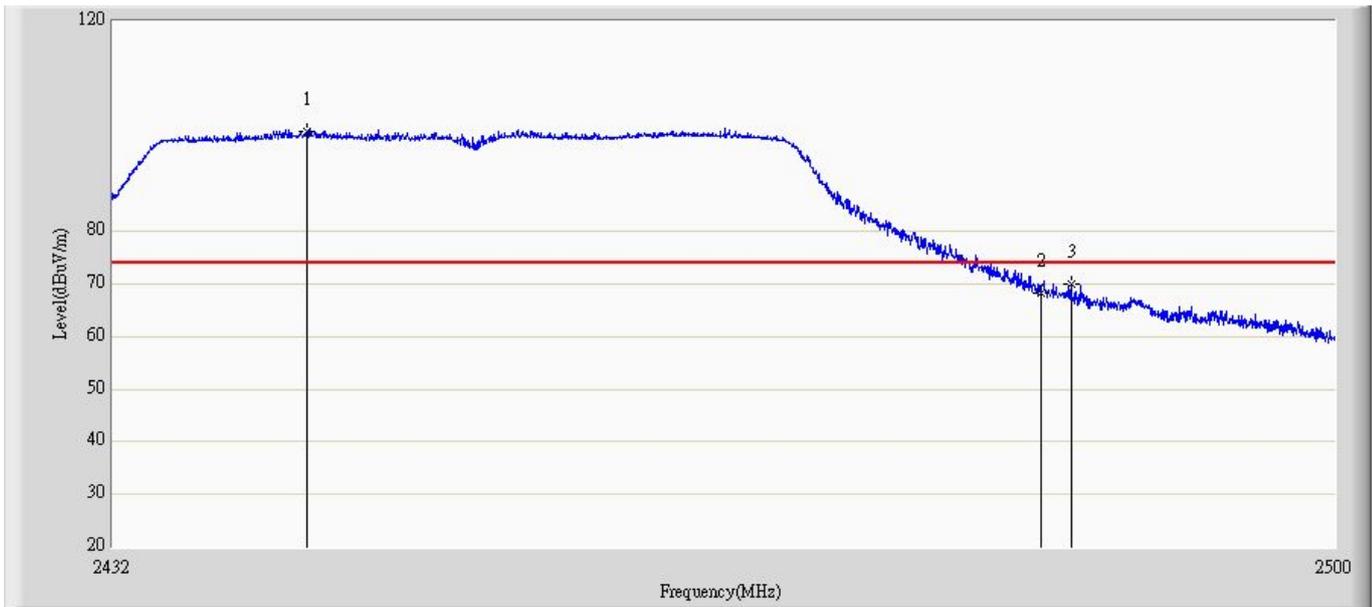
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390	66.04	35.496	-7.96	74	30.543	PK
2	X	*	2413.158	98.187	67.598	N/A	N/A	30.589	PK

Profile: 103S080R	Page No.: 28
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 11:44
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2422MHz By 802.11n(40MHz)	



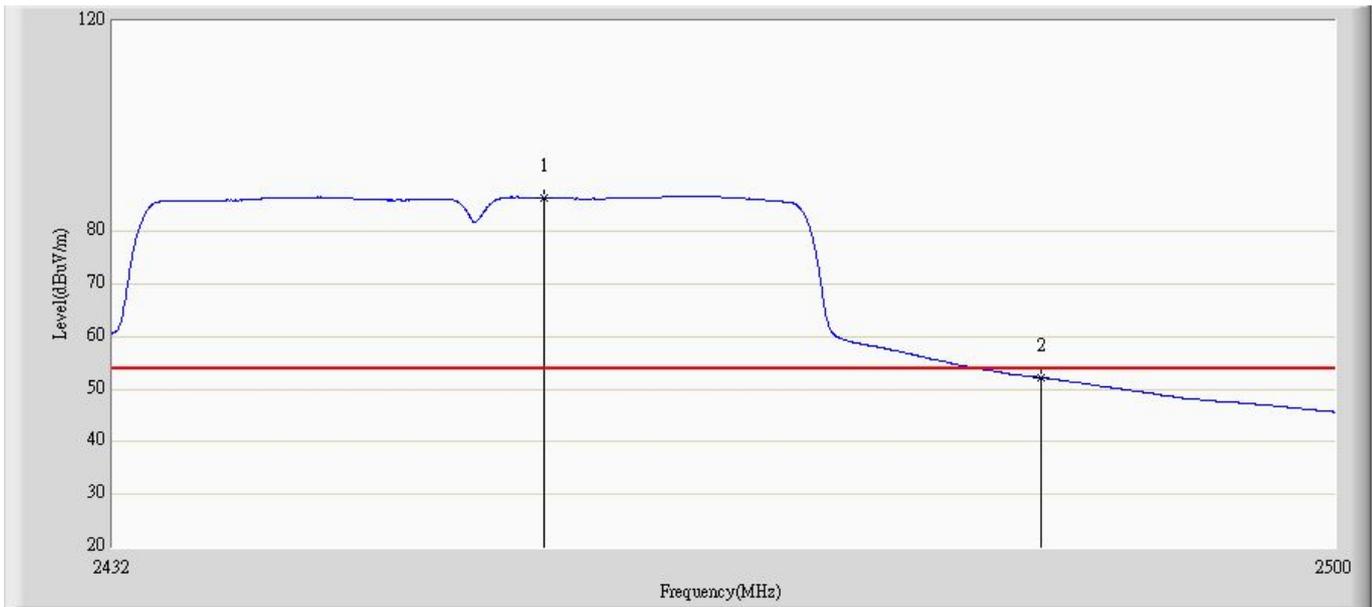
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1			2390	52.293	21.749	-1.707	54	30.543	AV
2	X	*	2412.498	85.631	55.048	N/A	N/A	30.583	AV

Profile: 103S080R	Page No.: 29
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 13:07
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2452MHz By 802.11n(40MHz)	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1	X	*	2442.676	99.135	68.303	N/A	N/A	30.832	PK
2			2483.5	68.404	37.765	-5.596	74	30.638	PK
3			2485.176	70.14	39.509	-3.86	74	30.631	PK

Profile: 103S080R	Page No.: 30
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 13:08
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Horizontal
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2452MHz By 802.11n(40MHz)	



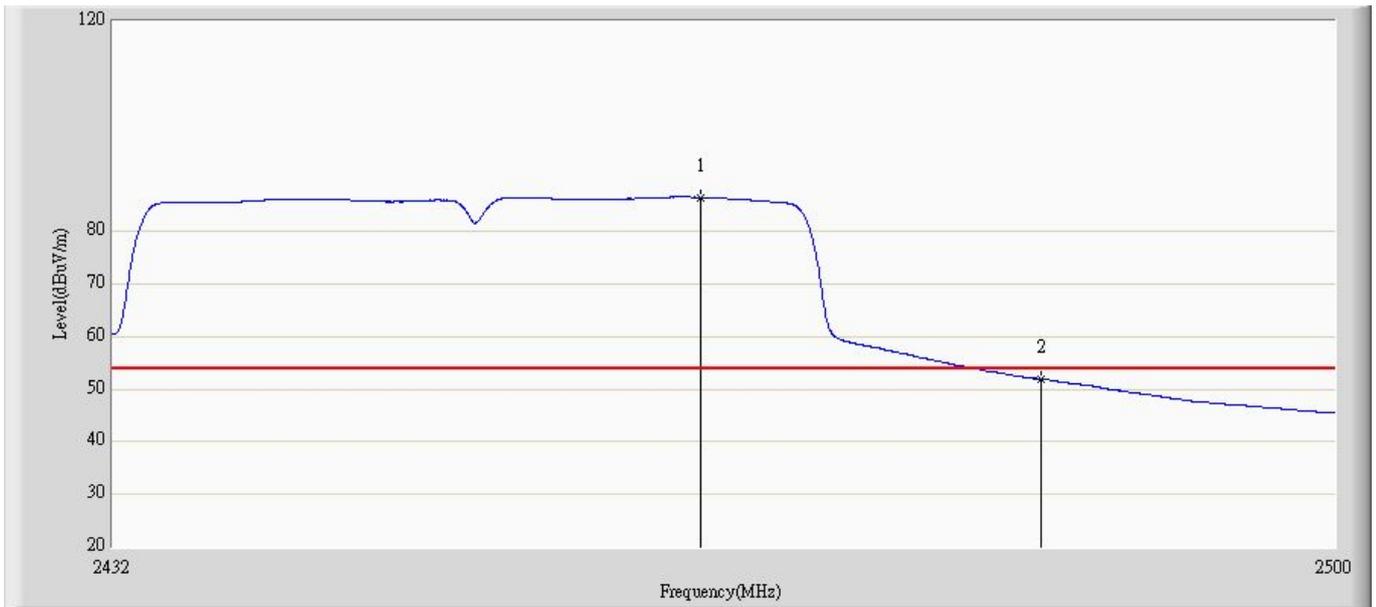
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1	X	*	2455.834	86.395	55.59	N/A	N/A	30.805	AV
2			2483.5	52.15	21.511	-1.85	54	30.638	AV

Profile: 103S080R	Page No.: 31
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 13:15
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2452MHz By 802.11n(40MHz)	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1	X	*	2465.762	98.873	68.12	N/A	N/A	30.753	PK
2			2483.5	67.201	36.562	-6.799	74	30.638	PK

Profile: 103S080R	Page No.: 32
Engineer: Jame	
Site: AC2	Time: 2010/03/25 - 13:17
Limit: FCC_Part15.209_RE(3m)	Margin: 0
Probe: BBHA9120D_737(1-18GHz)	Polarity: Vertical
EUT: Eee PC	Power: AC 120V/60Hz
Note: Mode 4: Transmit at channel 2452MHz By 802.11n(40MHz)	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor	Type
1	X	*	2464.504	86.488	55.726	N/A	N/A	30.762	AV
2			2483.5	51.95	21.311	-2.05	54	30.638	AV

7. Operation Frequency Range of 20dB Bandwidth

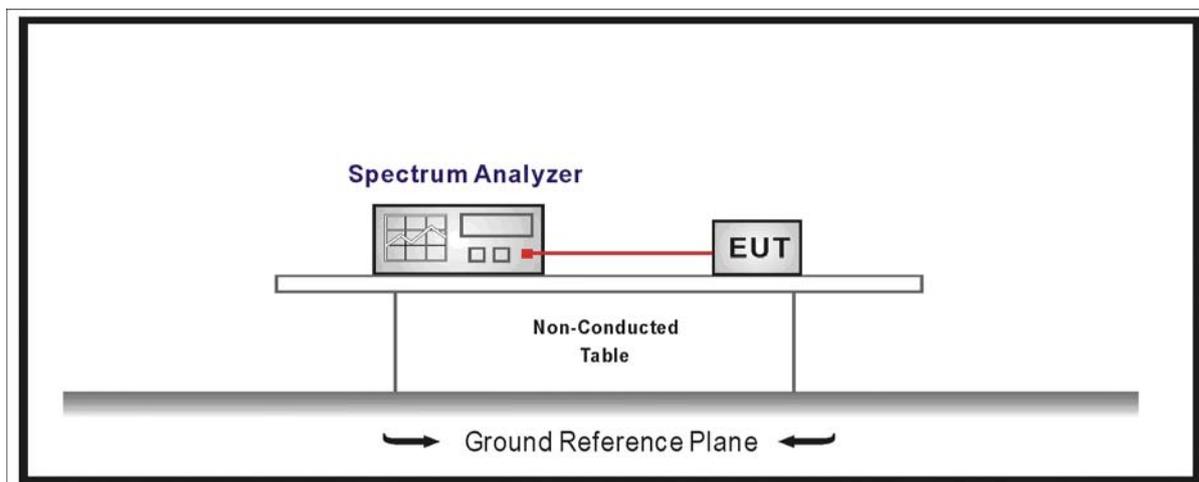
7.1. Test Equipment

Operation Frequency Range of 20dB Bandwidth / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9020A	MY49100159	2009.05.06
Temperature/Humidity Meter	zhicheng	ZC1-2	AC6-TH	2010.01.14

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.

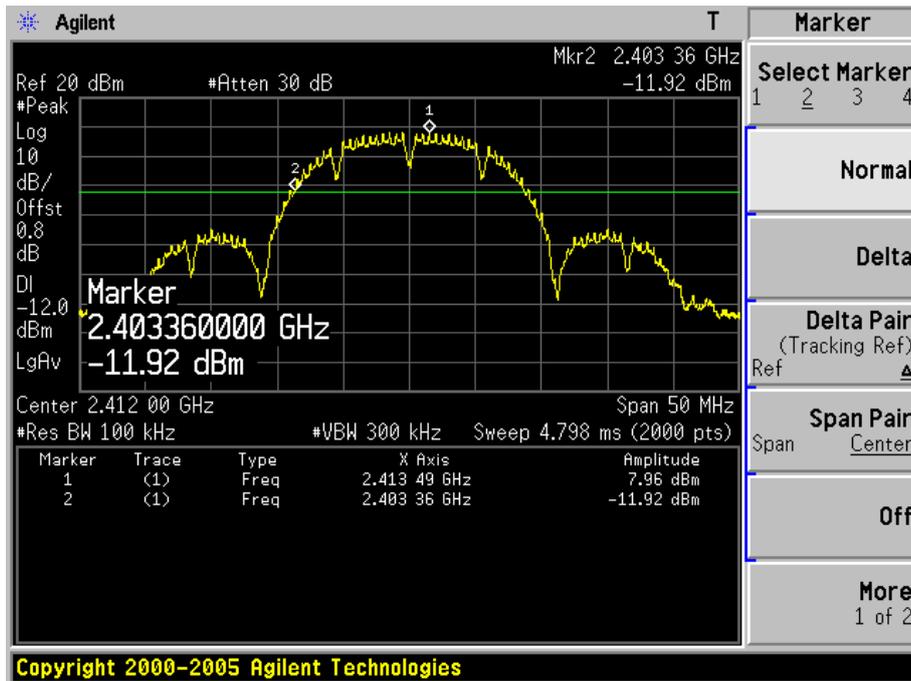
7.5. Uncertainty

The measurement uncertainty is defined as ± 1 kHz

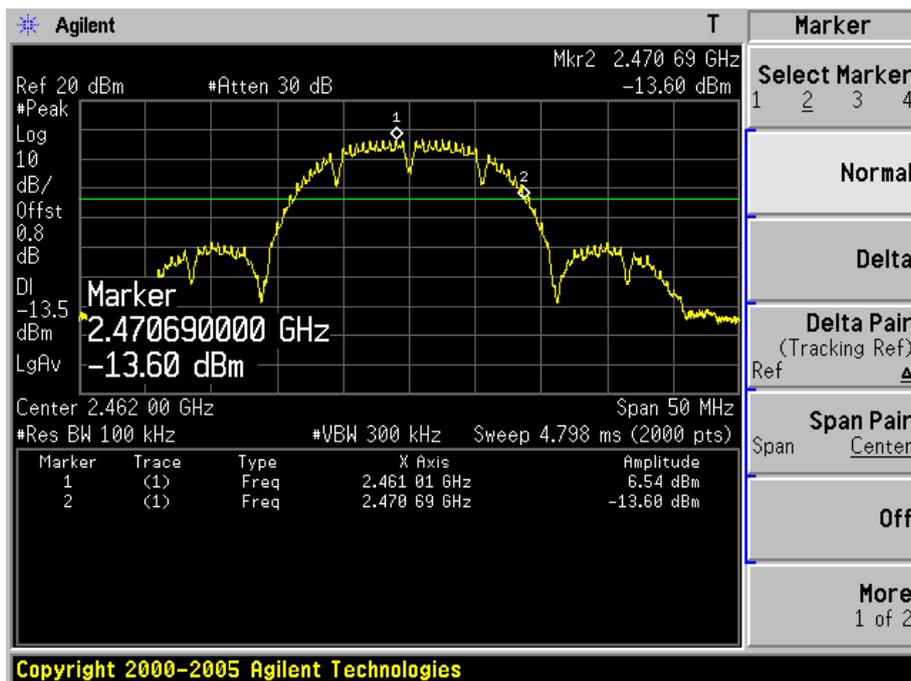
7.6. Test Result

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

Channel 01 (2412MHz)

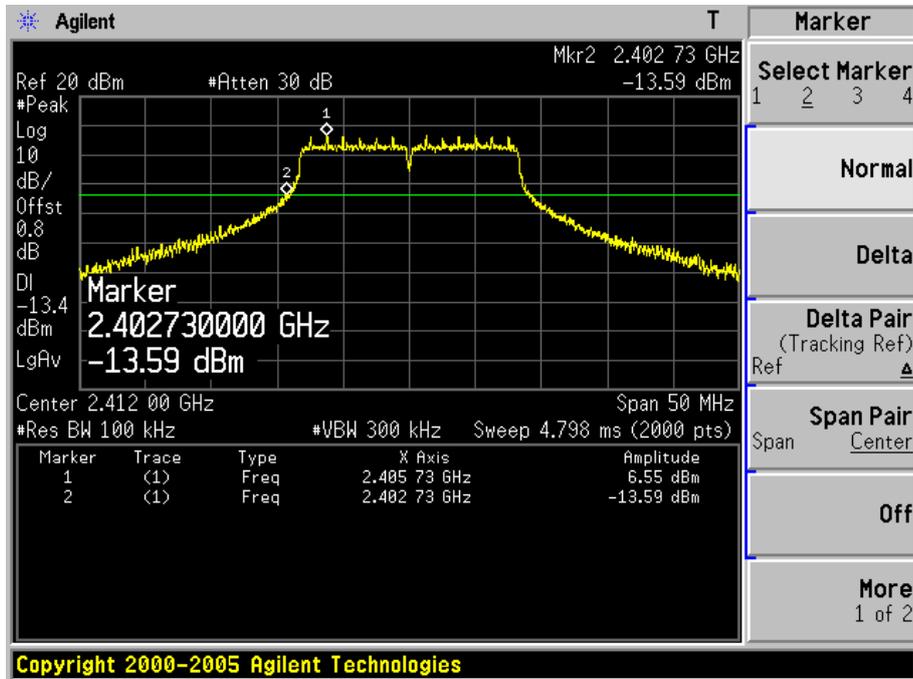


Channel 11 (2462MHz)

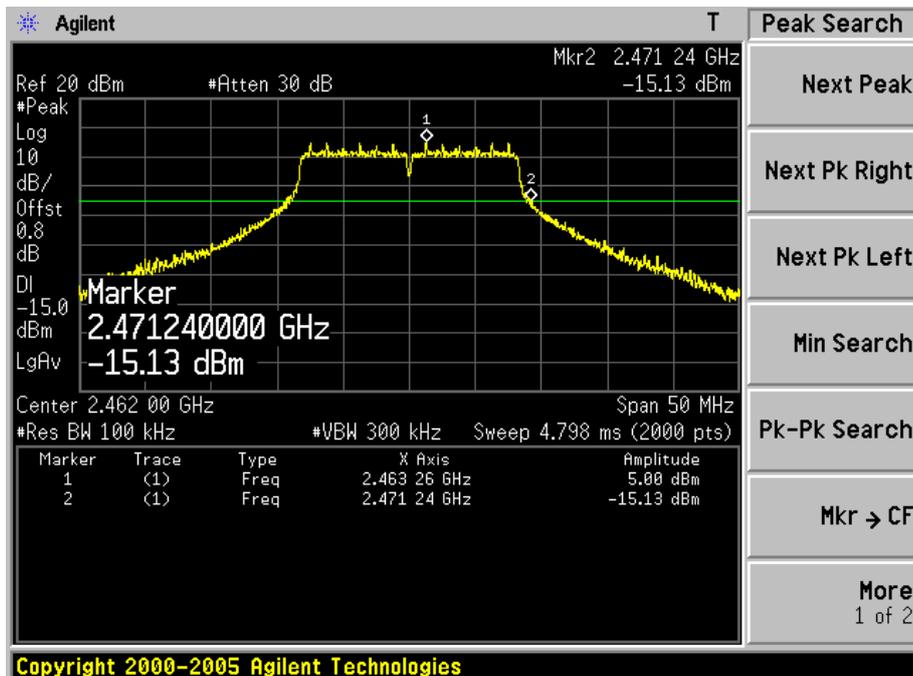


Product	:	Eee PC
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Mode	:	Mode 2: Transmit by 802.11g

Channel 01 (2412MHz)

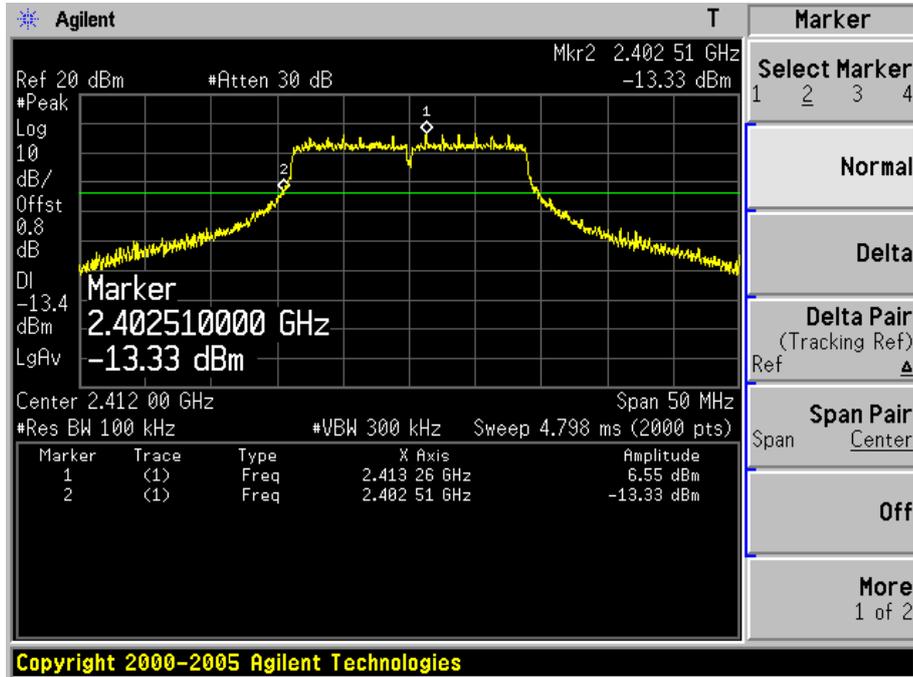


Channel 11 (2462MHz)

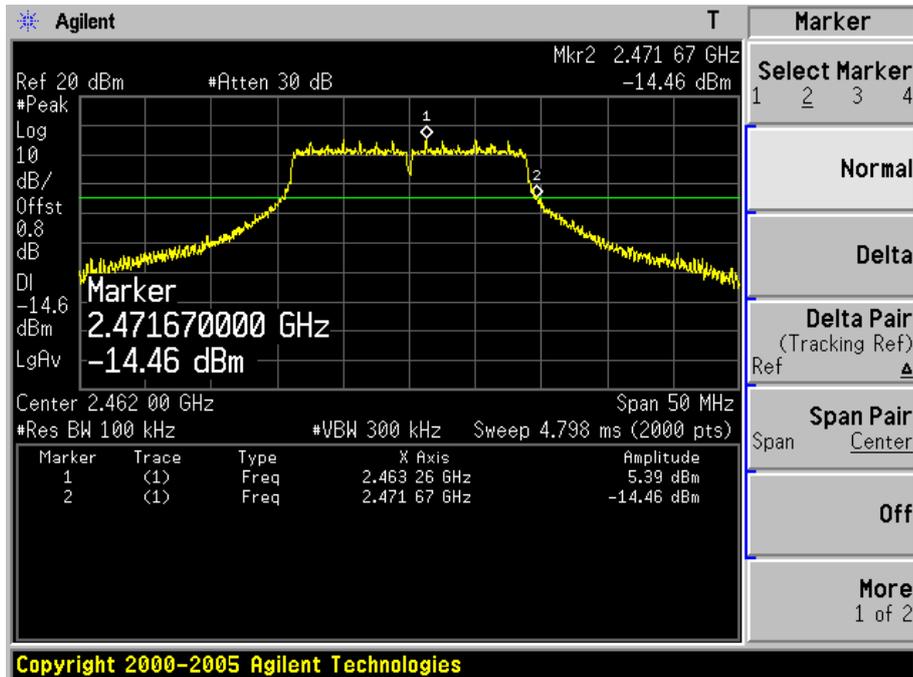


Product	:	Eee PC
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz)

Channel 01 (2412MHz)

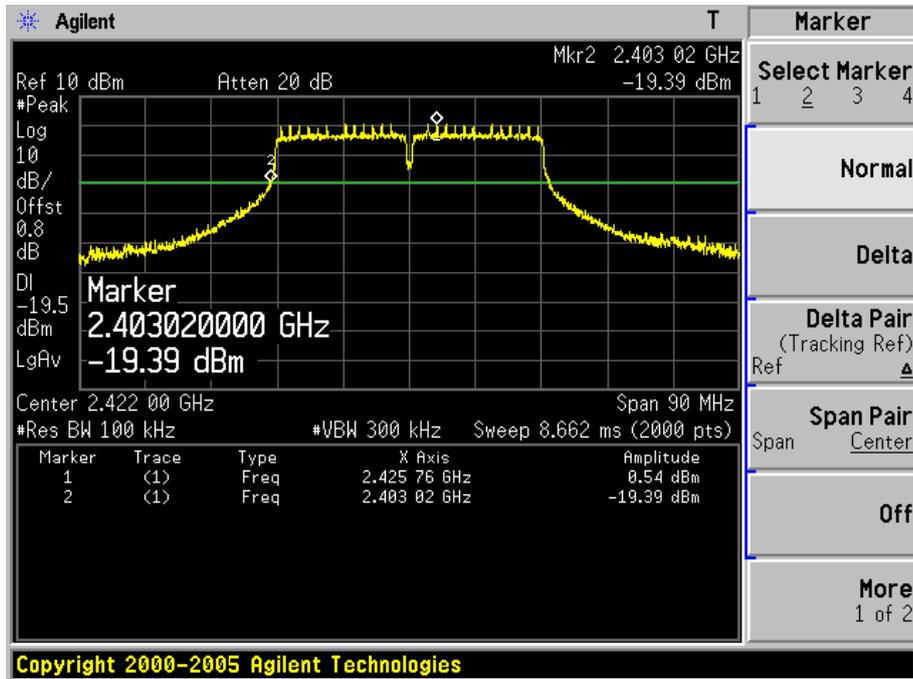


Channel 11 (2462MHz)

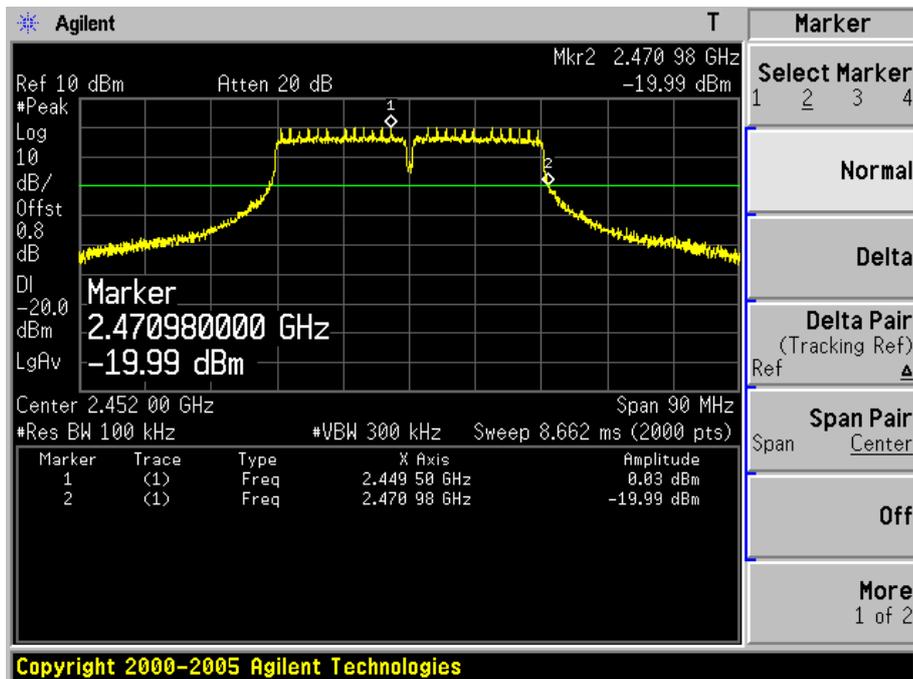


Product	:	Eee PC
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz)

Channel 03 (2422MHz)



Channel 09 (2452MHz)



8. Occupied Bandwidth

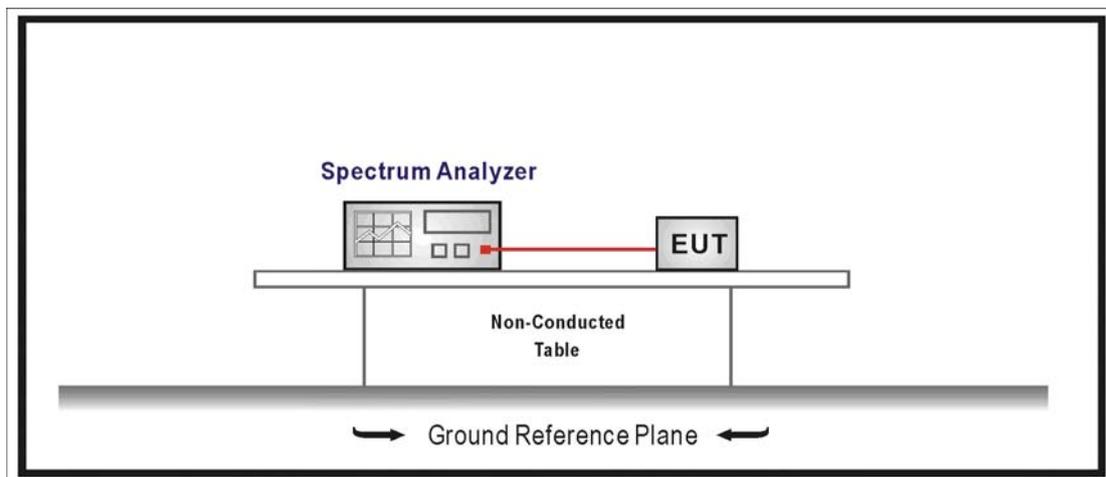
8.1. Test Equipment

Occupied Bandwidth / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9020A	MY49100159	2009.05.06
Temperature/Humidity Meter	zhicheng	ZC1-2	AC6-TH	2010.01.14

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

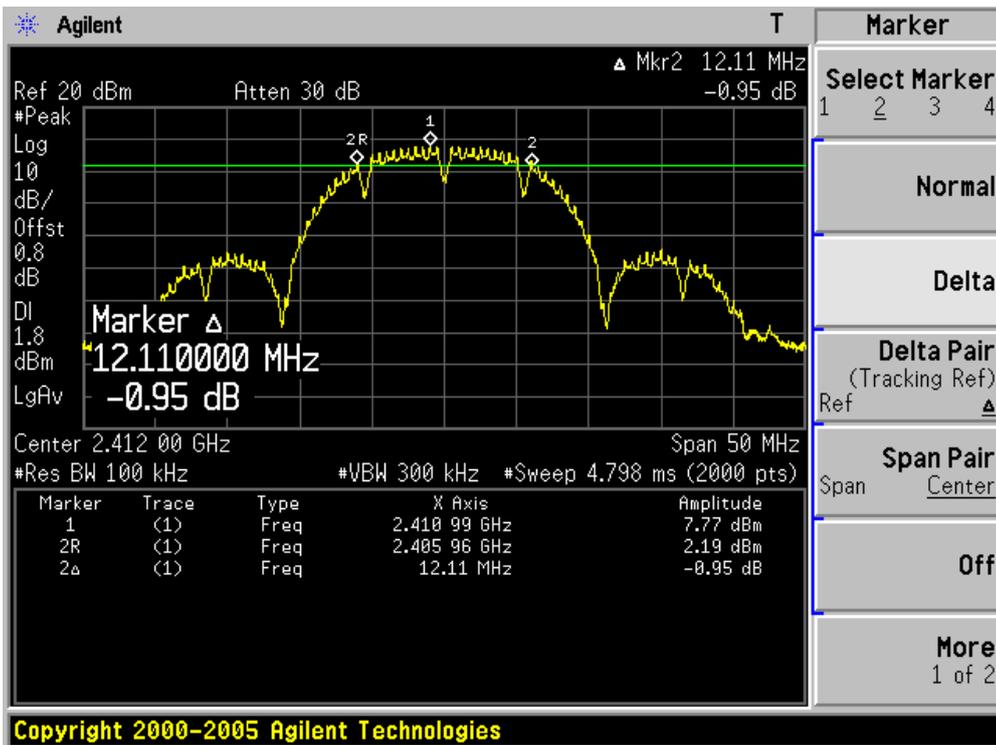
The measurement uncertainty is defined as ± 1 kHz

8.6. Test Result

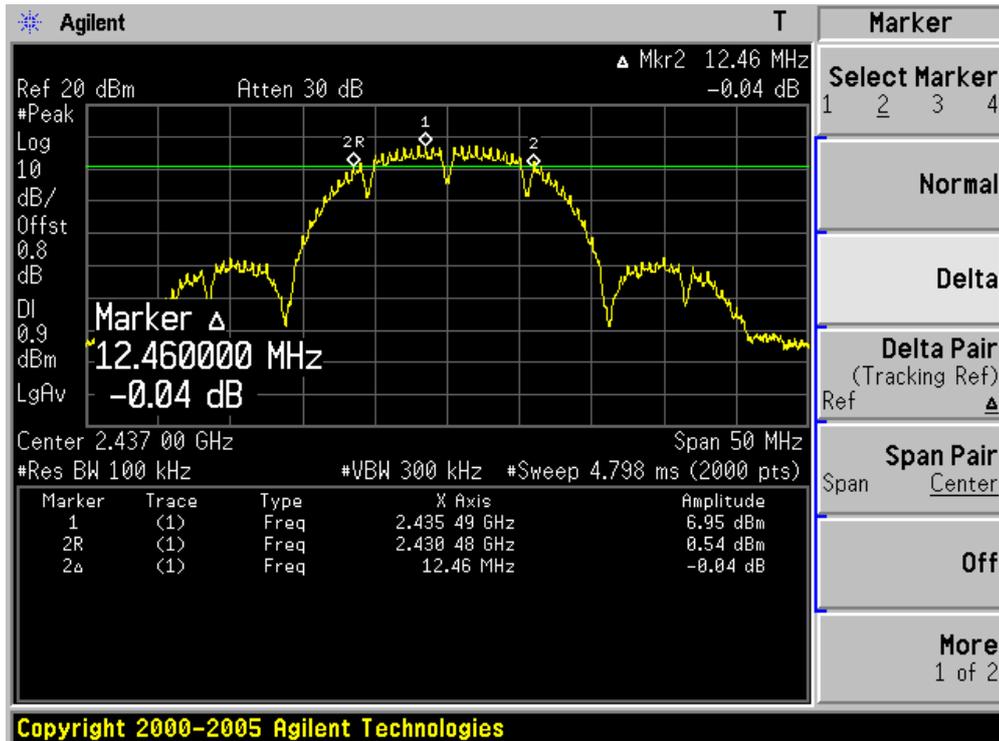
Product	:	Eee PC
Test Item	:	6dB Occupied Bandwidth
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	12110	500	Pass
06	2437	12460	500	Pass
11	2462	12530	500	Pass

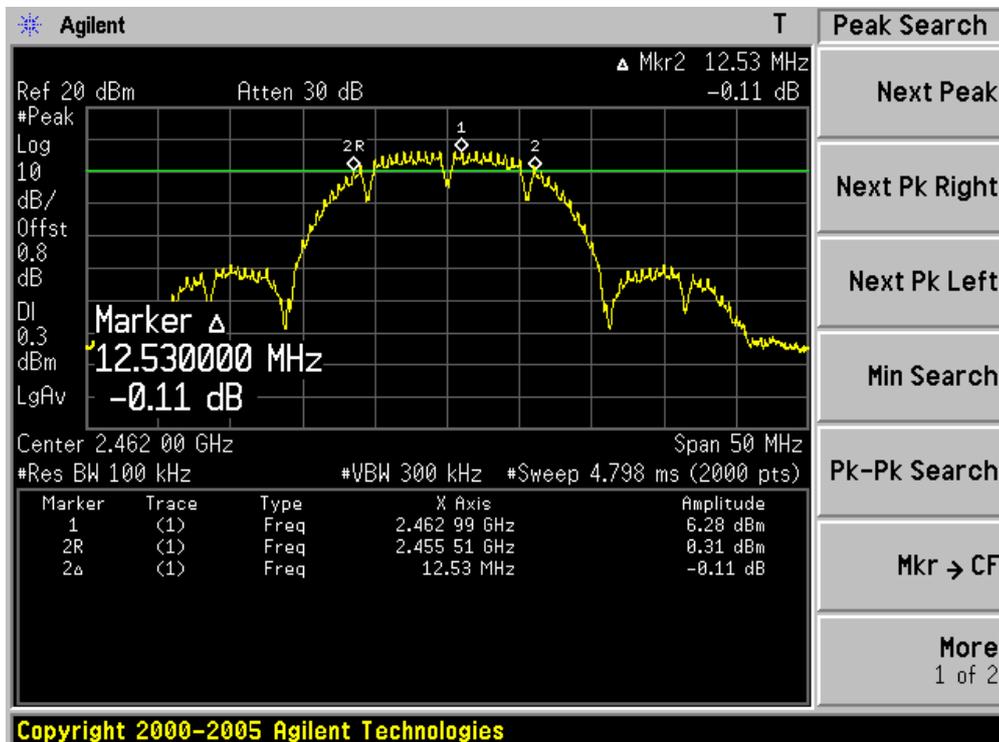
Channel 01 (2412MHz)



Channel 06 (2437MHz)



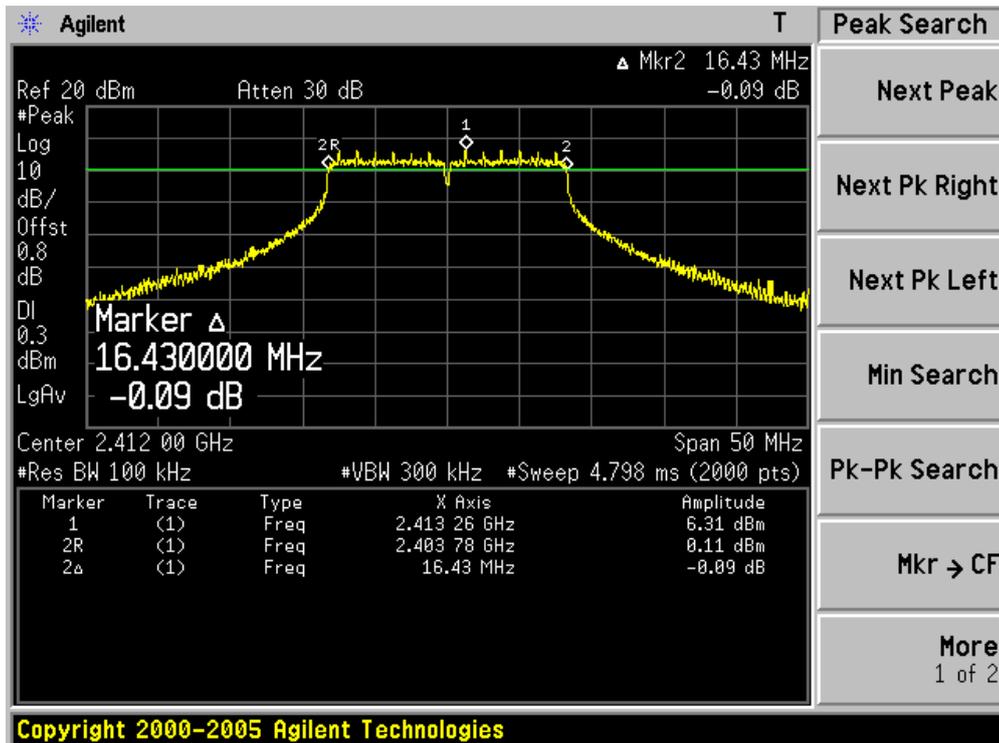
Channel 11 (2462MHz)



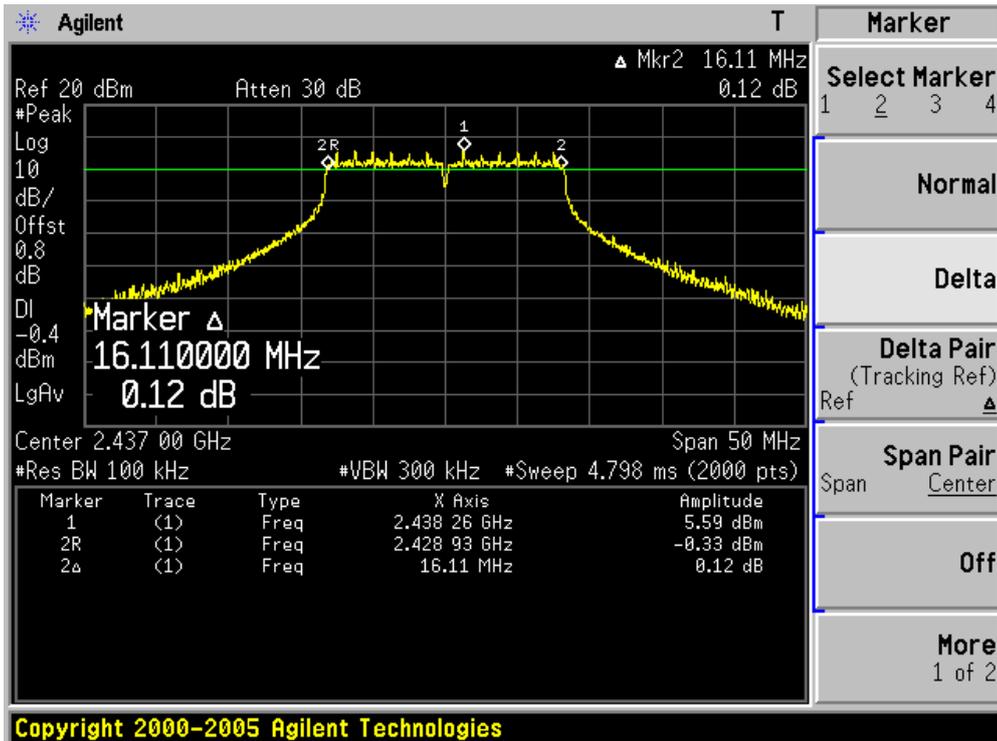
Product	:	Eee PC
Test Item	:	6dB Occupied Bandwidth
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	16430	500	Pass
06	2437	16110	500	Pass
11	2462	16410	500	Pass

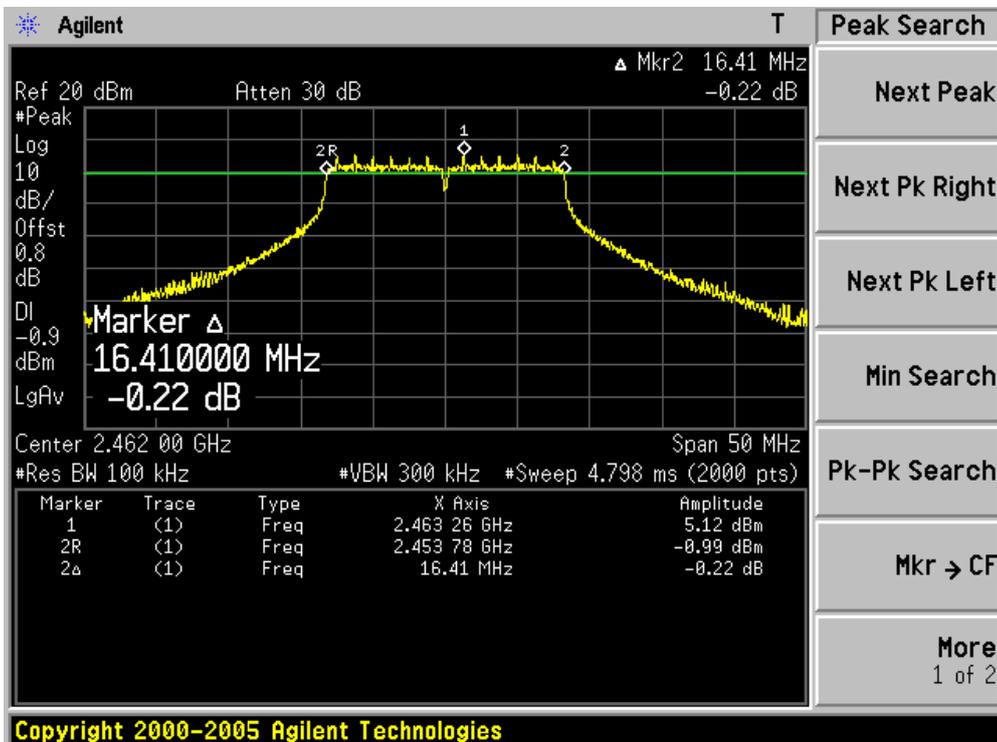
Channel 01 (2412MHz)



Channel 06 (2437MHz)



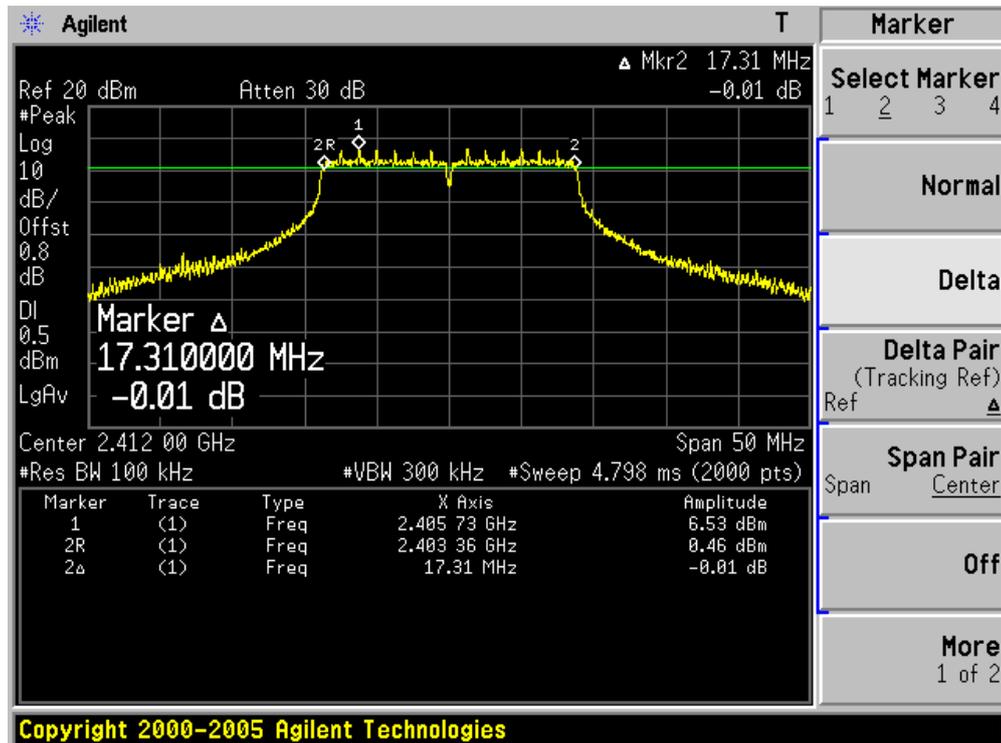
Channel 11 (2462MHz)



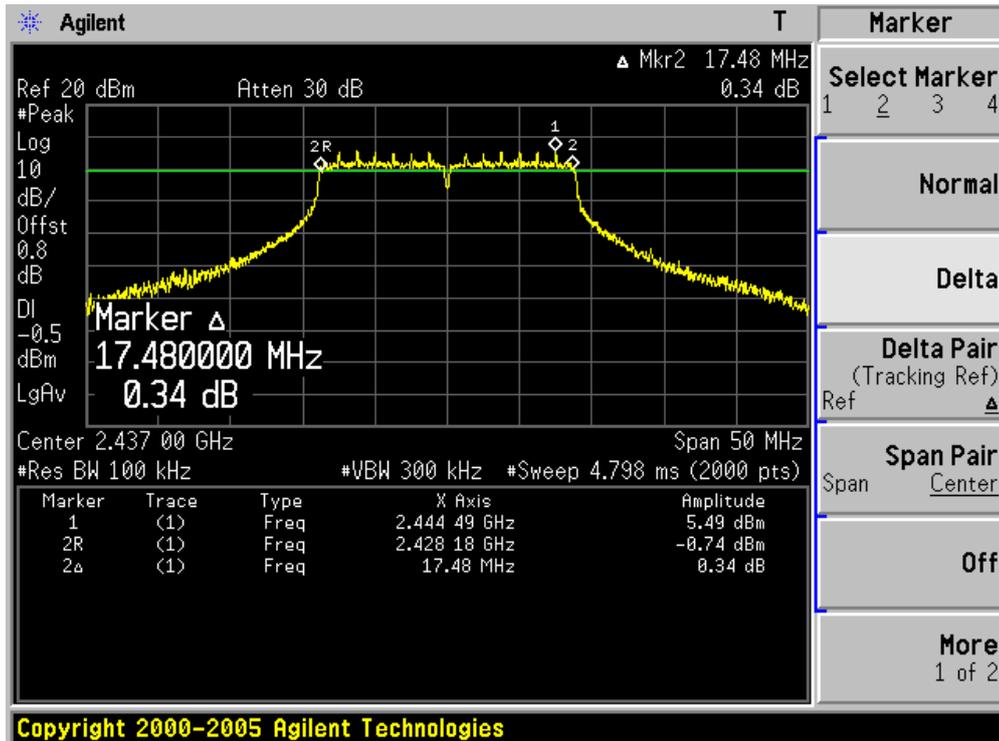
Product	:	Eee PC
Test Item	:	6dB Occupied Bandwidth
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	17310	500	Pass
06	2437	17480	500	Pass
11	2462	17480	500	Pass

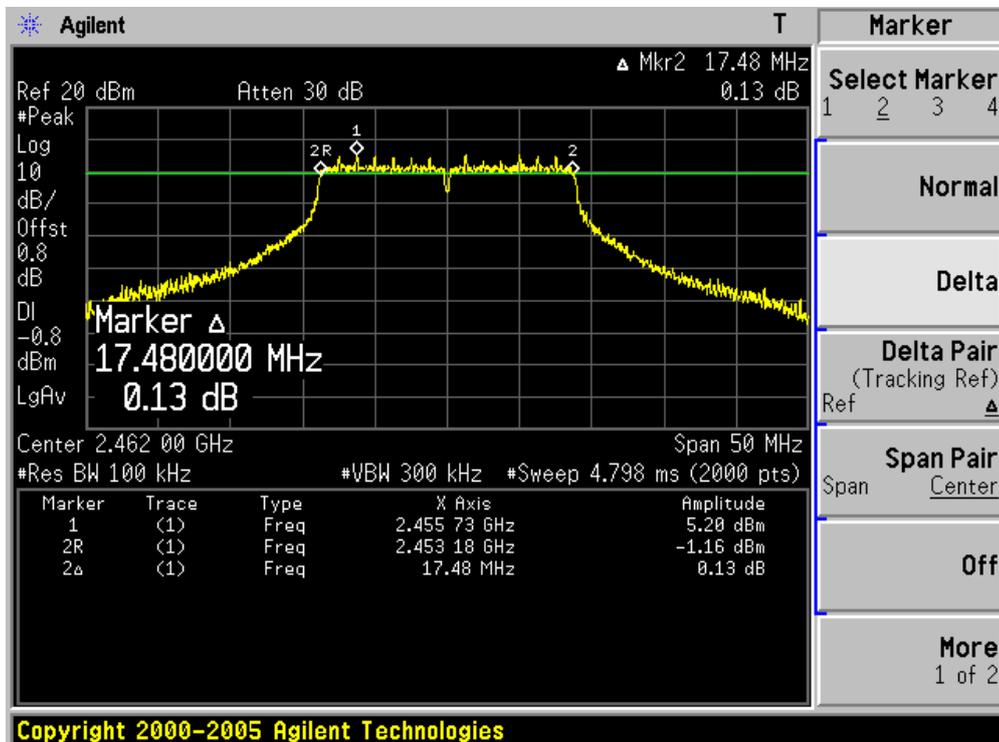
Channel 01 (2412MHz)



Channel 06 (2437MHz)



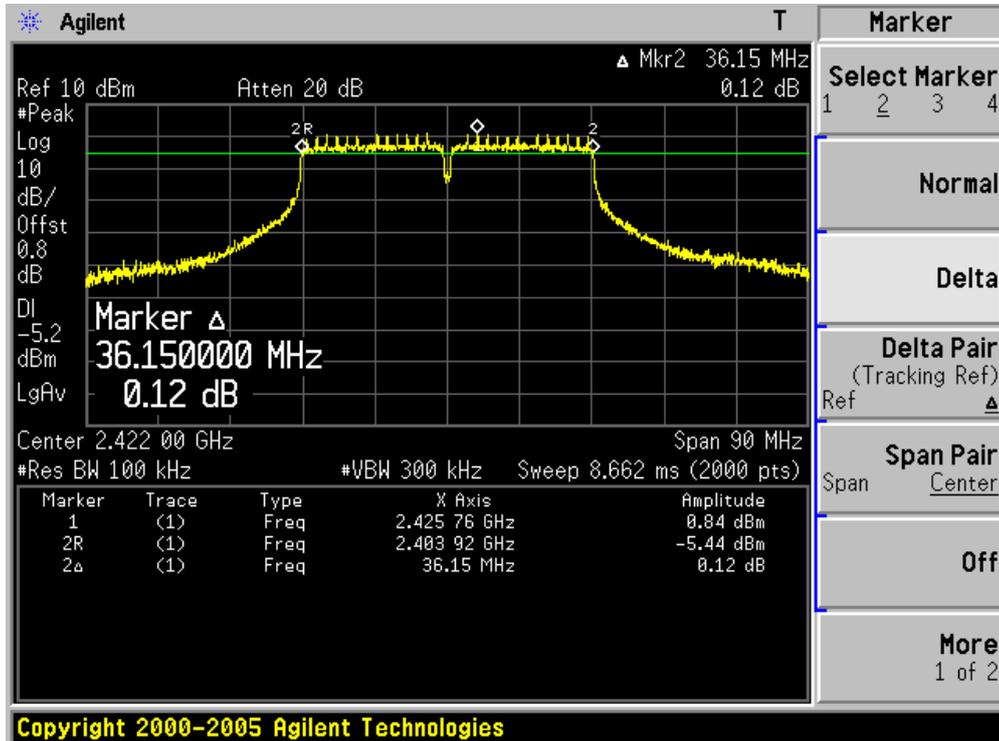
Channel 11 (2462MHz)



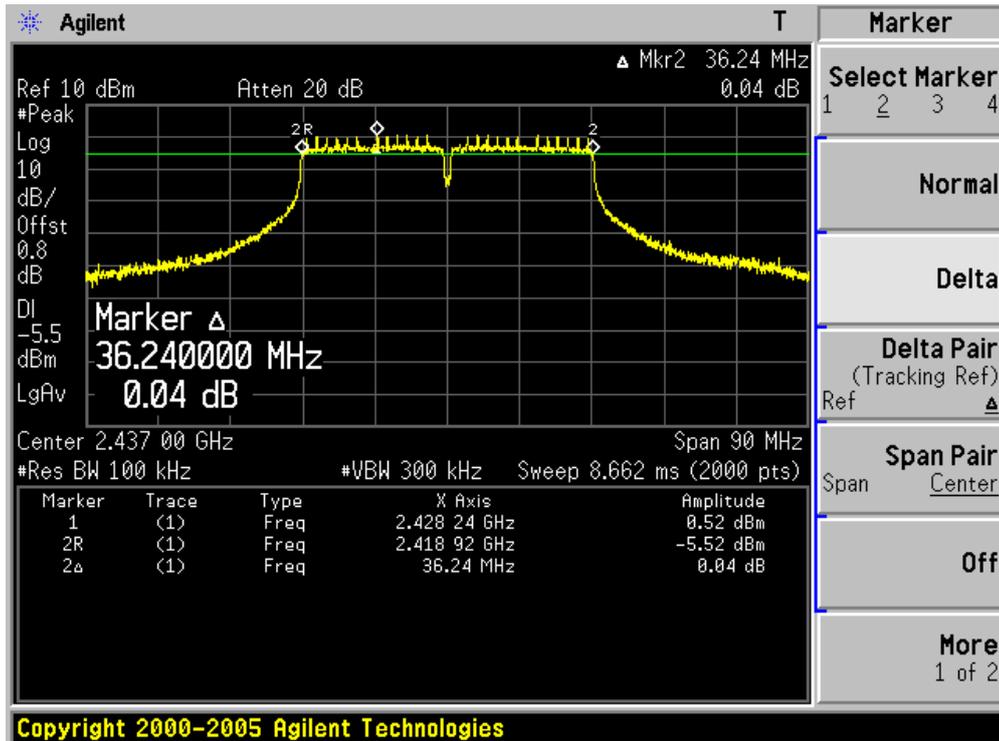
Product	:	Eee PC
Test Item	:	6dB Occupied Bandwidth
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
03	2422	36150	500	Pass
06	2437	36240	500	Pass
09	2452	36150	500	Pass

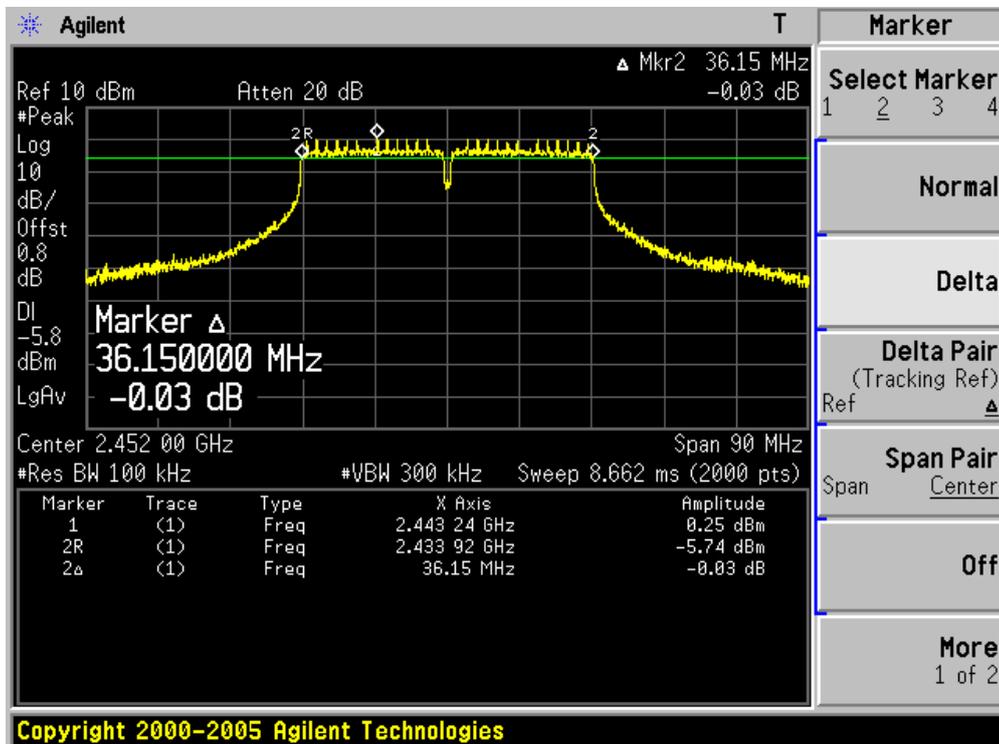
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



9. Power Output

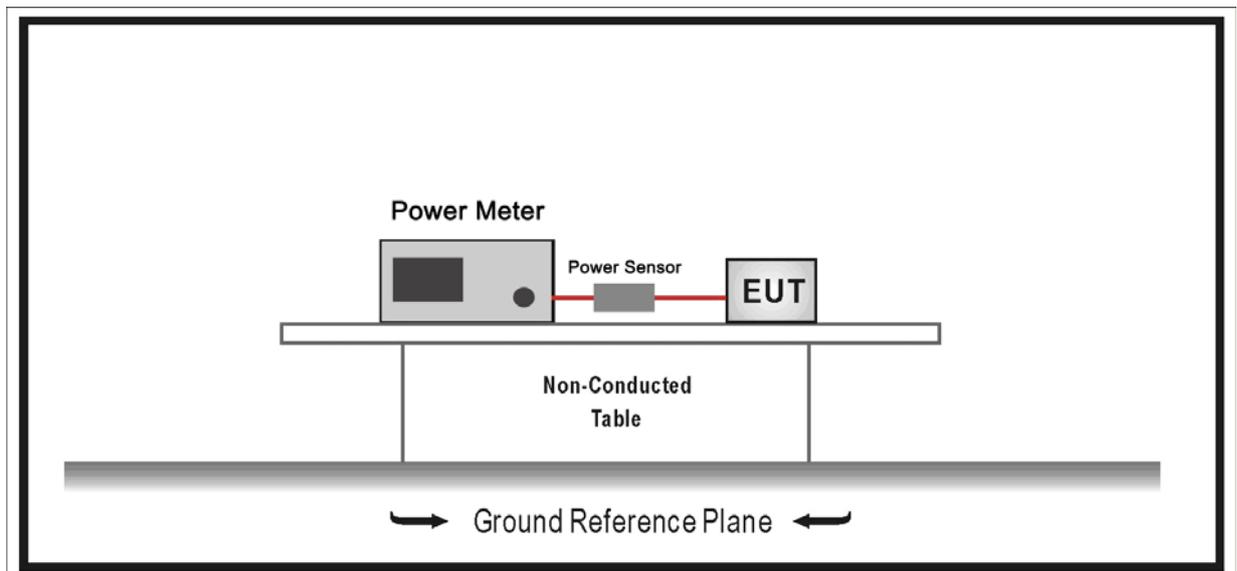
9.1. Test Equipment

Power Output / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Wideband Peak Power Meter	Anritsu	ML2495A	0905006	2010.01.12
Power Sensor	Anritsu	MA2411B	0846014	2010.01.12
Temperature/Humidity Meter	zhicheng	ZC1-2	AC6-TH	2010.01.14

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.

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

9.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

9.6. Test Result

Power output test was verified over all data rates of each mode shown as below, and then choose the maximum power output (blue marker) for final test of each channel.

MCS Index for 802.11n	Spatial Streams	Data Rate (Mbps)					
		802.11b	802.11g	20MHz Bandwidth		40MHz Bandwidth	
				800ns GI	400ns GI	800ns GI	400ns GI
0	1	1	6	6.5	7.2	13.5	15.0
1	1	2	9	13.0	14.4	27.0	30.0
2	1	5.5	12	19.5	21.7	40.5	45.0
3	1	11	18	26.0	28.9	54.0	60.0
4	1	---	24	39.0	43.3	81.0	90.0
5	1	---	36	52.0	57.8	108.0	120.0
6	1	---	48	58.5	65.0	121.5	135.0
7	1	---	54	65.0	72.2	135.0	150.0

Power output at various data rates:

Test Mode	Frequency (MHz)	Channel	Data Rate	Peak Power (dBm)
802.11b	2437	6	1	18.54
			2	18.44
			5.5	18.32
			11	18.14
802.11g	2437	6	6	21.64
			9	21.35
			12	21.32
			18	21.21
			24	21.08
			36	21.02
			48	20.86
			54	20.72
802.11n (20M)	2437	6	6.5	21.53
			13.0	21.46
			19.5	21.36
			26.0	21.19
			39.0	21.12
			52.0	21.02
			58.5	20.76
			65.0	20.26
802.11n (40M)	2437	6	13.5	16.90
			27.0	16.76
			40.5	16.52
			54.0	16.34
			81.0	16.22
			108.0	15.81
			121.5	15.24
			135.0	14.31

Product	:	Eee PC
Test Item	:	Power Output

Test Mode	Channel No.	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
802.11b	01	2412	19.19	30	Pass
	06	2437	18.54	30	Pass
	11	2462	18.51	30	Pass
802.11g	01	2412	21.34	30	Pass
	06	2437	21.64	30	Pass
	11	2462	18.68	30	Pass
802.11n(20M)	01	2412	21.21	30	Pass
	06	2437	21.53	30	Pass
	11	2462	16.45	30	Pass
802.11n(40M)	03	2422	14.01	30	Pass
	06	2437	16.90	30	Pass
	09	2452	13.34	30	Pass

10. Power Spectral Density

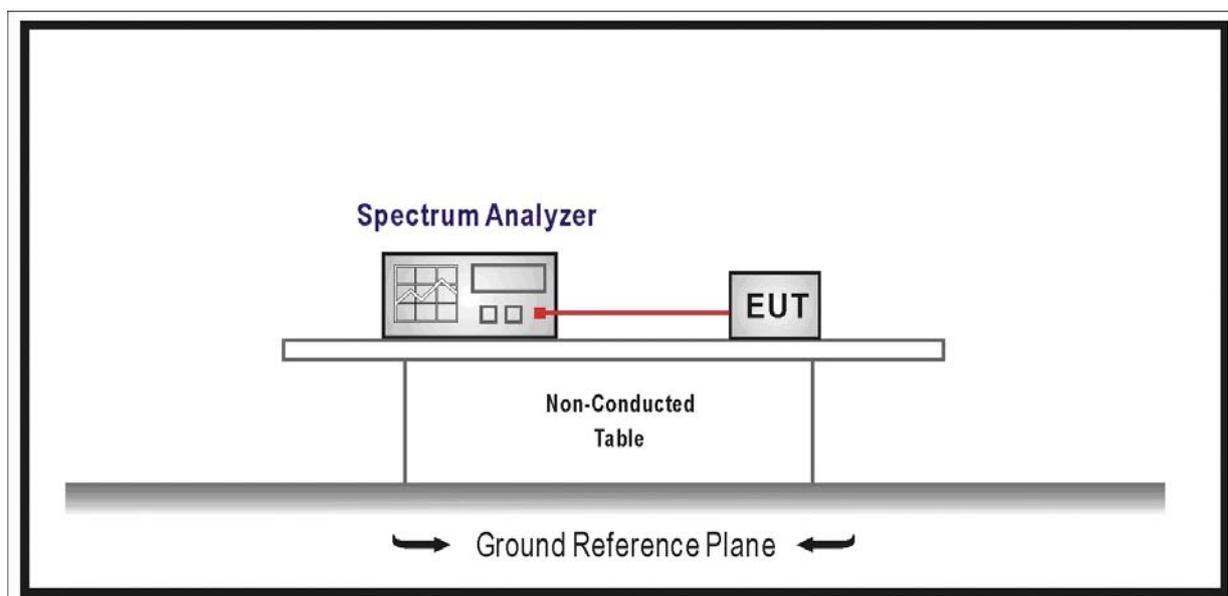
10.1. Test Equipment

Power Spectral Density / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9020A	MY49100159	2009.05.06
Temperature/Humidity Meter	zhicheng	ZC1-2	AC6-TH	2010.01.14

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 10 kHz, Sweep time=100s, Set detector=Peak detector.

10.5. Uncertainty

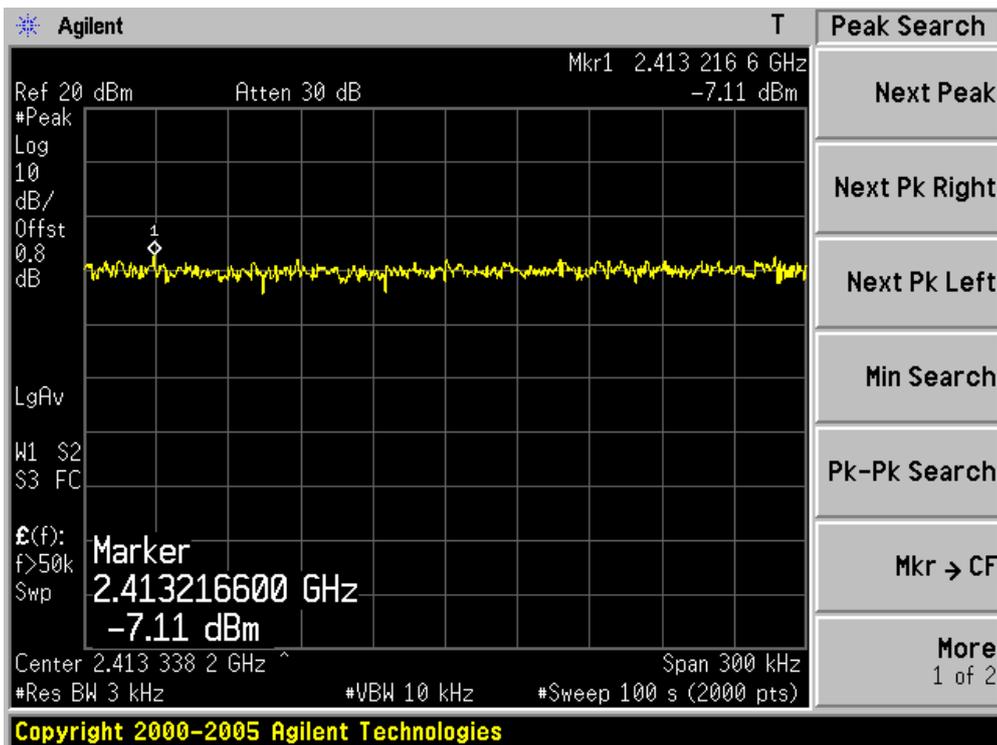
The measurement uncertainty is defined as ± 1.27 dB

10.6. Test Result

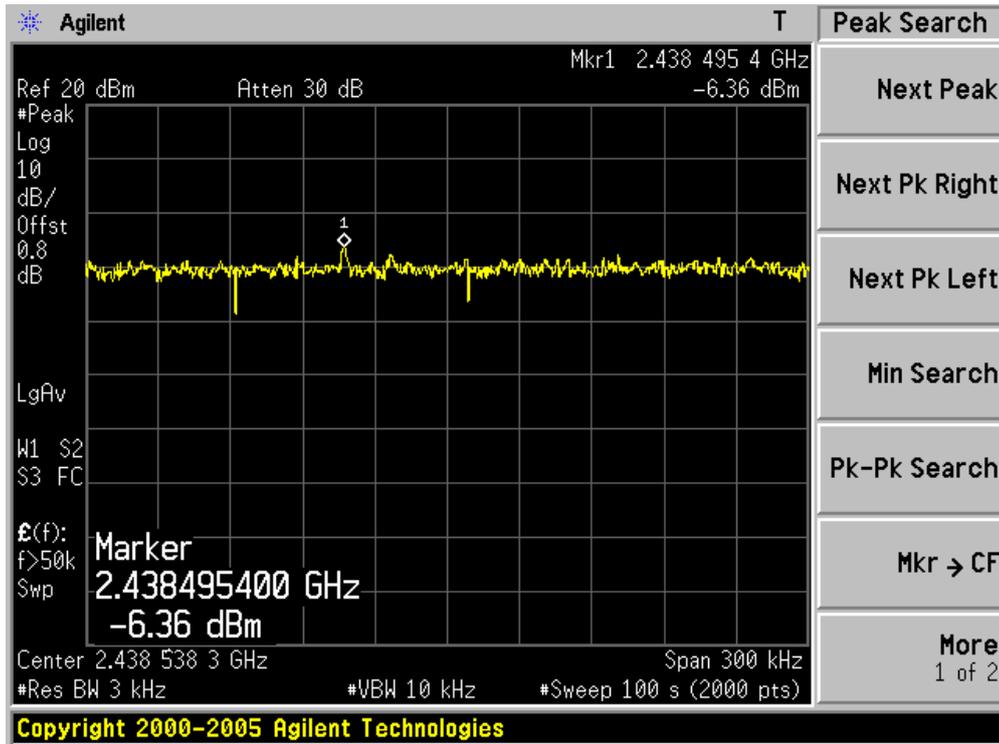
Product	:	Eee PC
Test Item	:	Power Spectral Density
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm)	Result
01	2412	-7.11	8	Pass
06	2437	-6.36	8	Pass
11	2462	-8.30	8	Pass

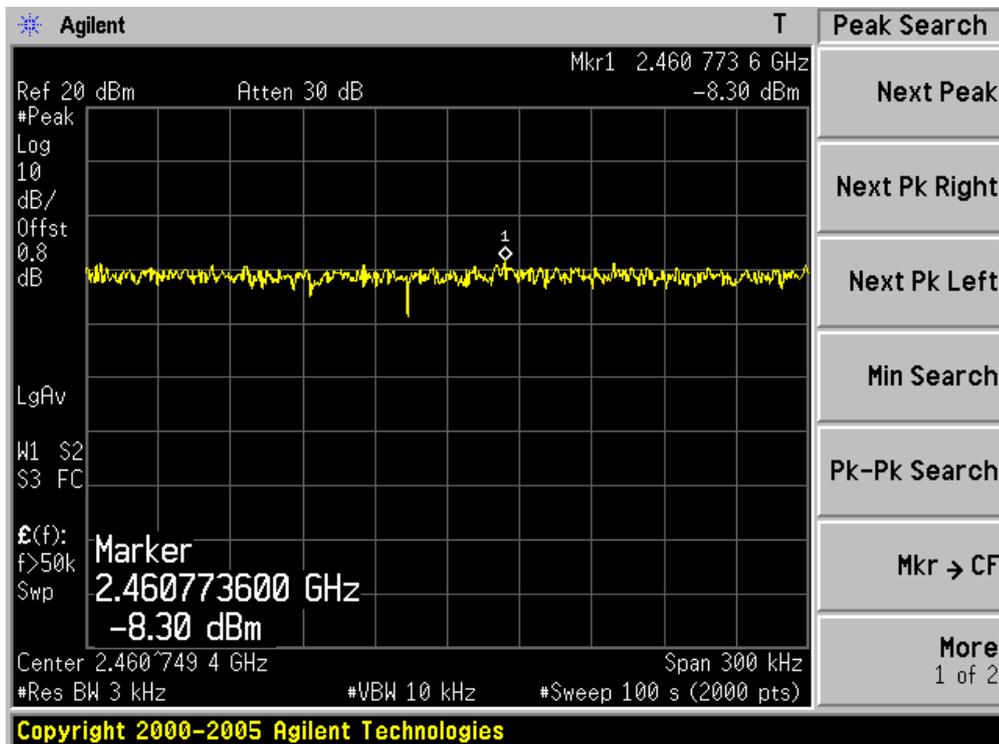
Channel 01 (2412MHz)



Channel 06 (2437MHz)



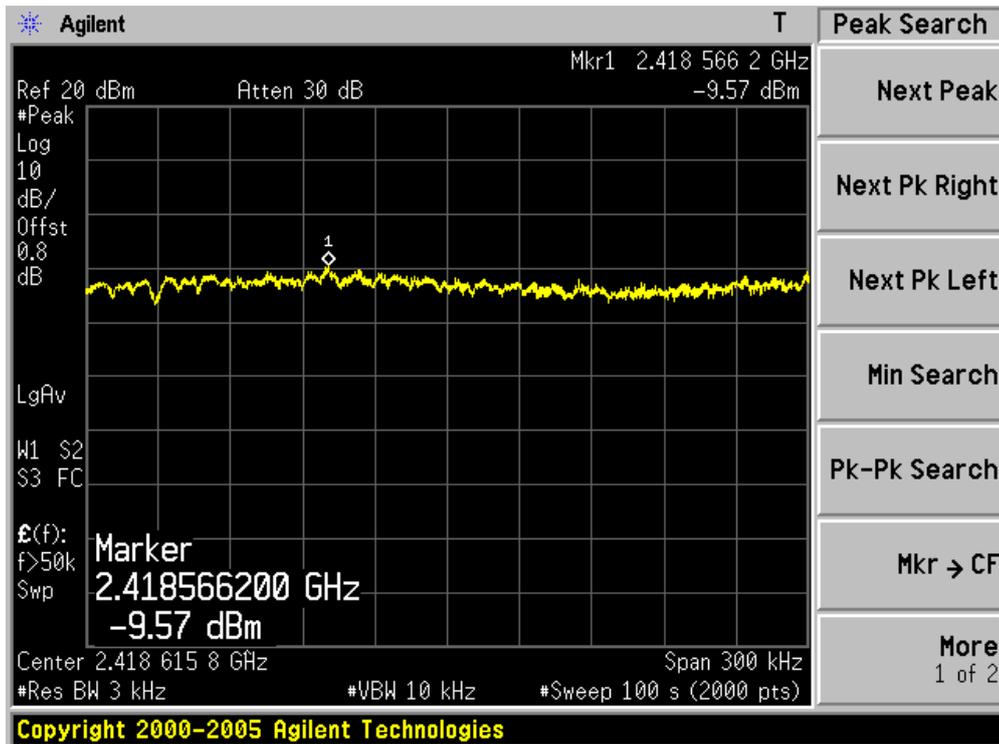
Channel 11 (2462MHz)



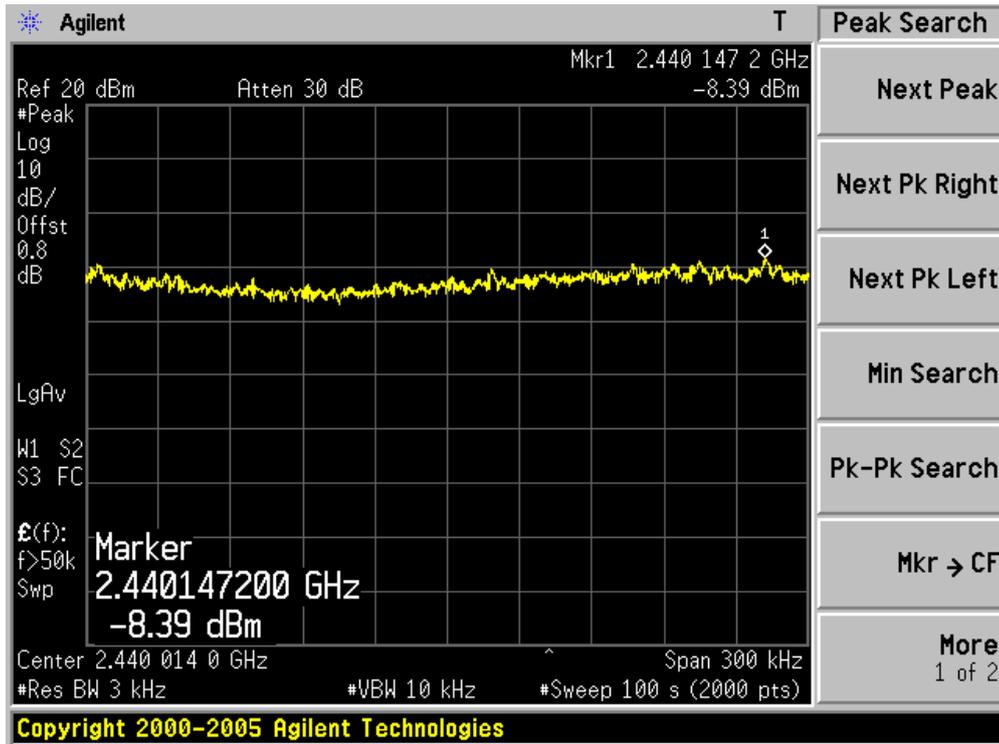
Product	:	Eee PC
Test Item	:	Power Spectral Density
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm)	Result
01	2412	-9.57	8	Pass
06	2437	-8.39	8	Pass
11	2462	-9.42	8	Pass

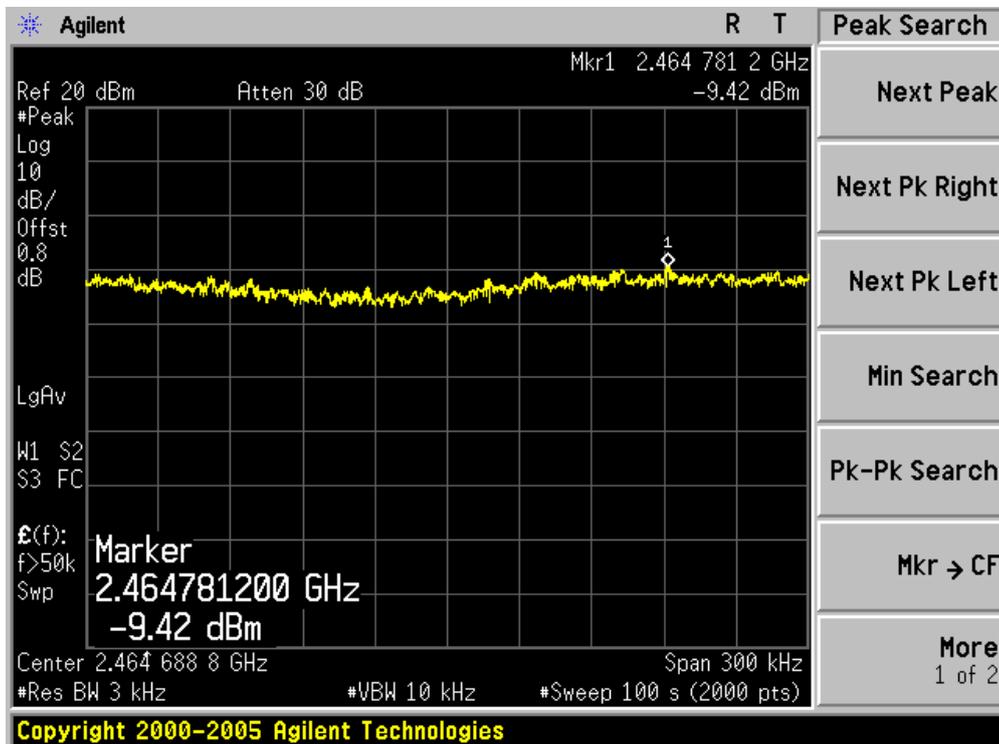
Channel 01 (2412MHz)



Channel 06 (2437MHz)



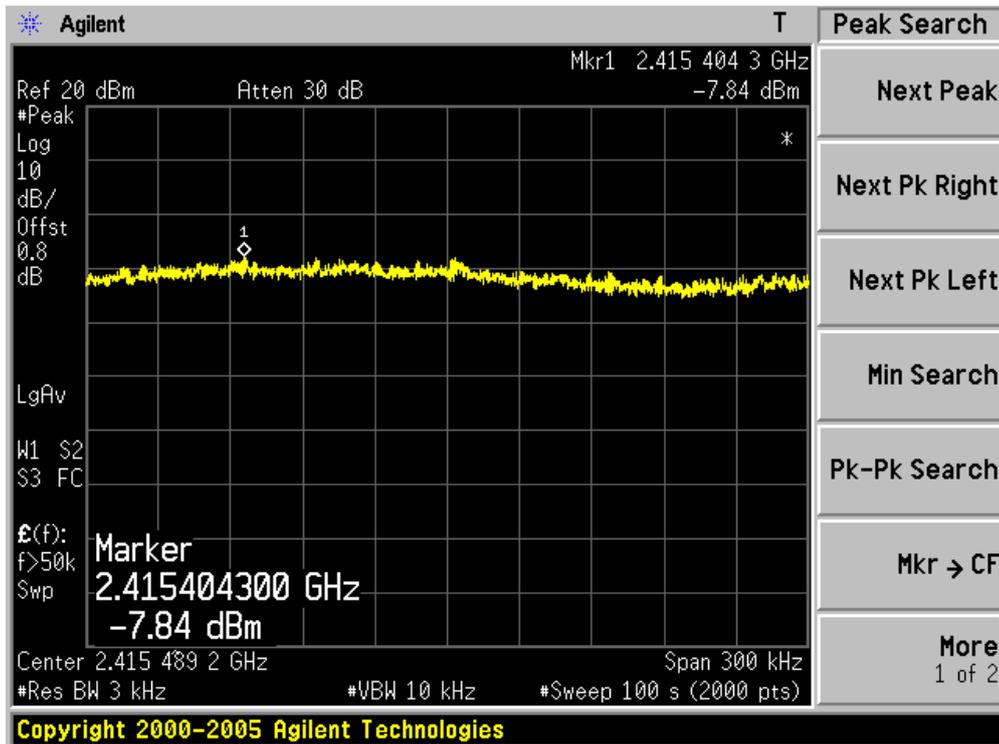
Channel 11 (2462MHz)



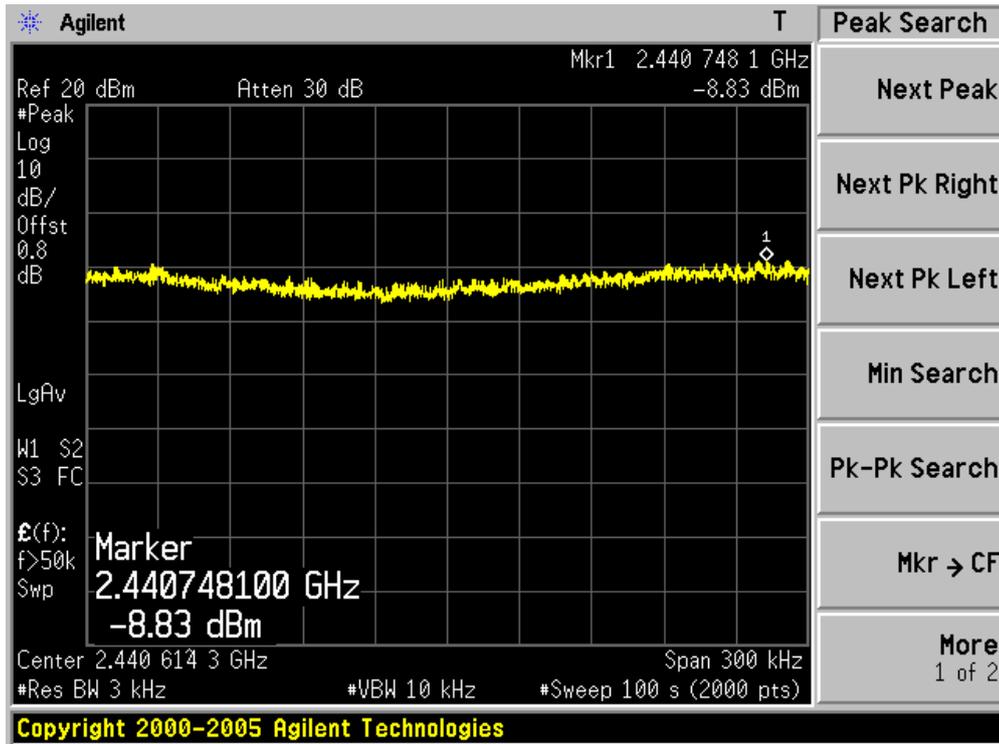
Product	:	Eee PC
Test Item	:	Power Spectral Density
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz)

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm)	Result
01	2412	-7.84	8	Pass
06	2437	-8.83	8	Pass
11	2462	-9.09	8	Pass

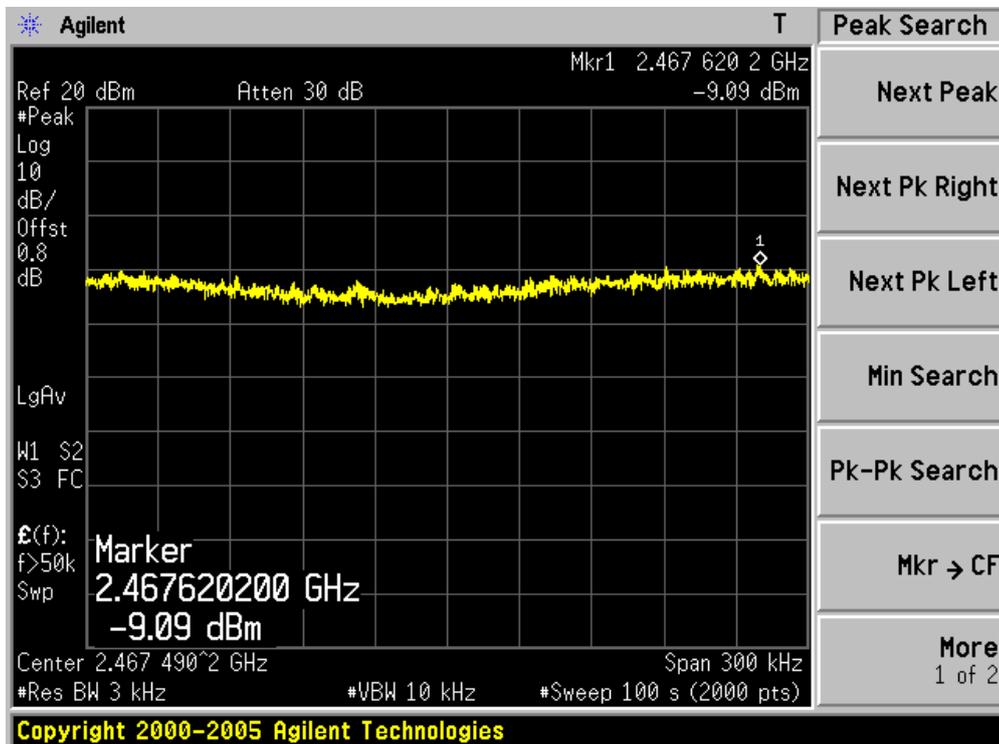
Channel 01 (2412MHz)



Channel 06 (2437MHz)



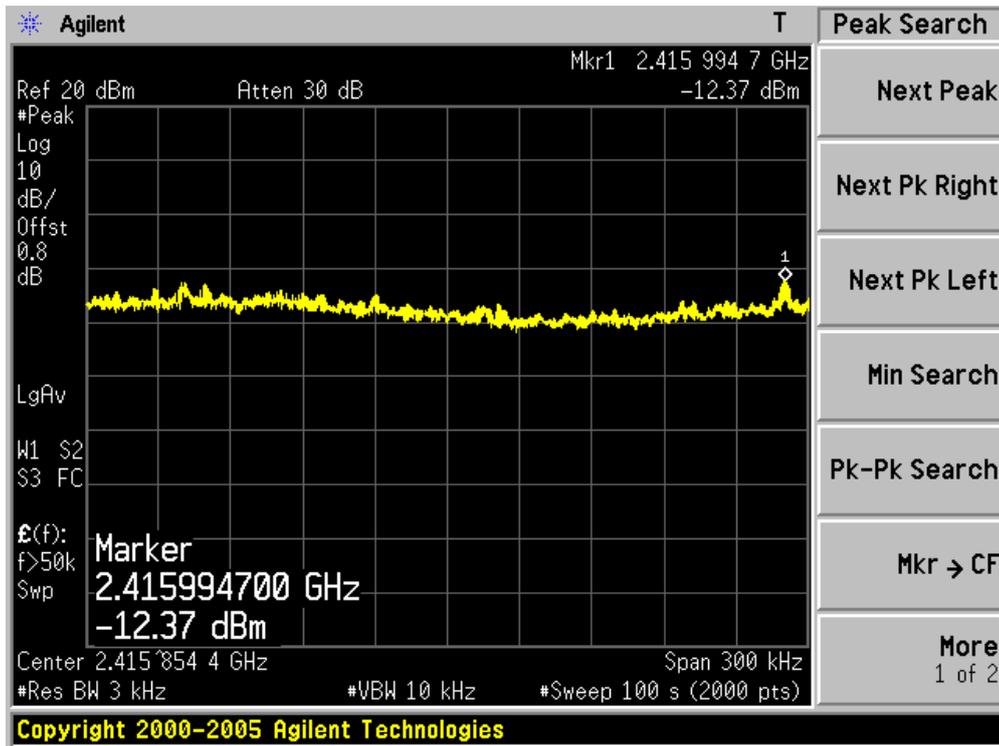
Channel 11 (2462MHz)



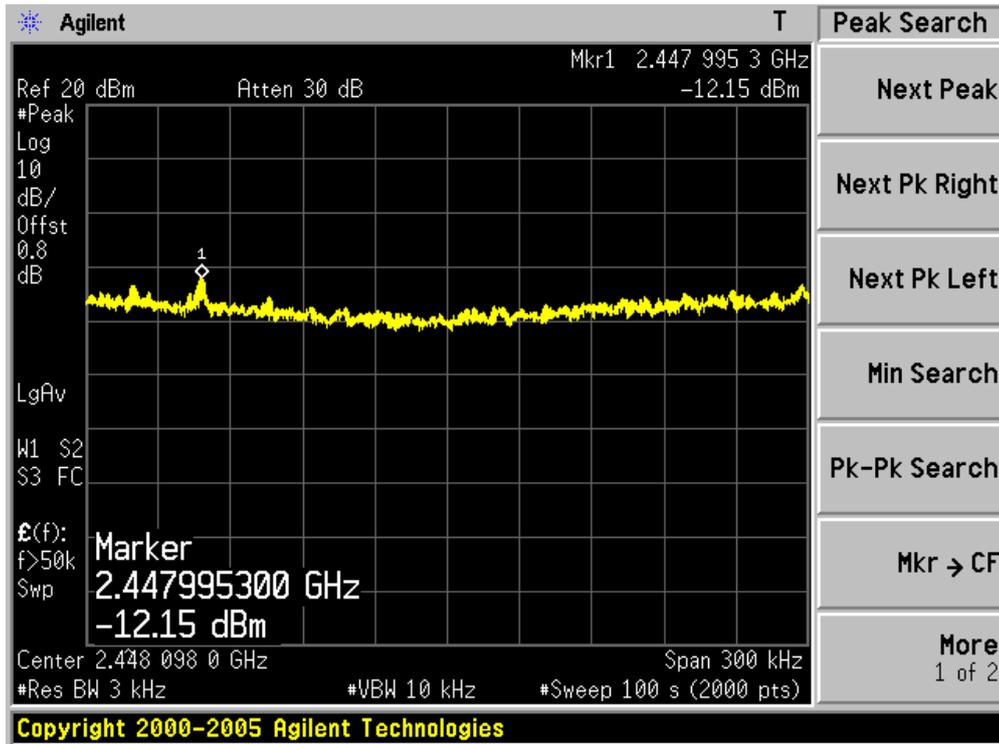
Product	:	Eee PC
Test Item	:	Power Spectral Density
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz)

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm)	Result
03	2422	-12.37	8	Pass
06	2437	-12.15	8	Pass
09	2452	-13.57	8	Pass

Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)

