

FCC Part15 Subpart C Test Report

Product Name : Eee PC
Model No. : Eee PC 1008P, Eee PC 1008PGO
FCC ID : MSQE8PNE762H

Applicant : ASUSTEK COMPUTER INC.

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

Date of Receipt : 2009/09/30
Issued Date : 2009/10/19
Report No. : 09AS010R-RF-US-P05V01
Report Version : V1.0

The test results relate only to the samples tested.

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

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Test Report Certification

Issued Date : 2009/10/19

Report No. : 09AS010R-RF-US-P05V01



Product Name : Eee PC
 Applicant : ASUSTEK COMPUTER INC.
 Address : NO.150, Li-Te Rd., Peitou, Taipei, Taiwan, R. O. C
 Manufacturer : PROTEK (Shanghai) Limited
 Address : NO.3668 Xiu Yan Rd.Kang Qiao Town.Nan Hui Dist,
 Shang Hai
 Model No. : Eee PC 1008P, Eee PC 1008PGO
 FCC ID : MSQE8PNE762H
 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
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 Hi-Tech Development Zone., SuZhou, China
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 FCC Registration Number: 800392, IC Lab Code: 4075B

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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:

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

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site : <http://tw.quietek.com/modules/myalbum/>
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1. General Information

1.1. EUT Description

Product Name	Eee PC
Trade Name	ASUS
Model No.	Eee PC 1008P, Eee PC 1008PGO
19Vdc	19Vdc
Frequency Range	For 2.4GHz Band 802.11b/g/n(20MHz): 2412~2462MHz 802.11n(40MHz): 2422~2452MHz
Channel Number	For 2.4GHz Band 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 150 Mbps
Channel Control	Auto
Antenna Type	PIFA
Antenna Gain	2.45dBi for 2.4GHz band
AC Adapter	Manufacturer: PI ELECTRONICS (China Plant) M/N: AD6630 Input: 100-240V~50/60Hz 1.0A Output: 19Vdc, 2.1A

For 2.4GHz Band

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

For 802.11b/g/n Antenna List

Antenna	Manufacturer	Model No.	Antenna Gain(dBi)
PIFA Antenna	ASUS	APP6P-700261	1.96dBi for 2.4GHz band
PIFA Antenna	ASUS	CAN4313856012501B	2.5dBi for 2.4GHz band

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:

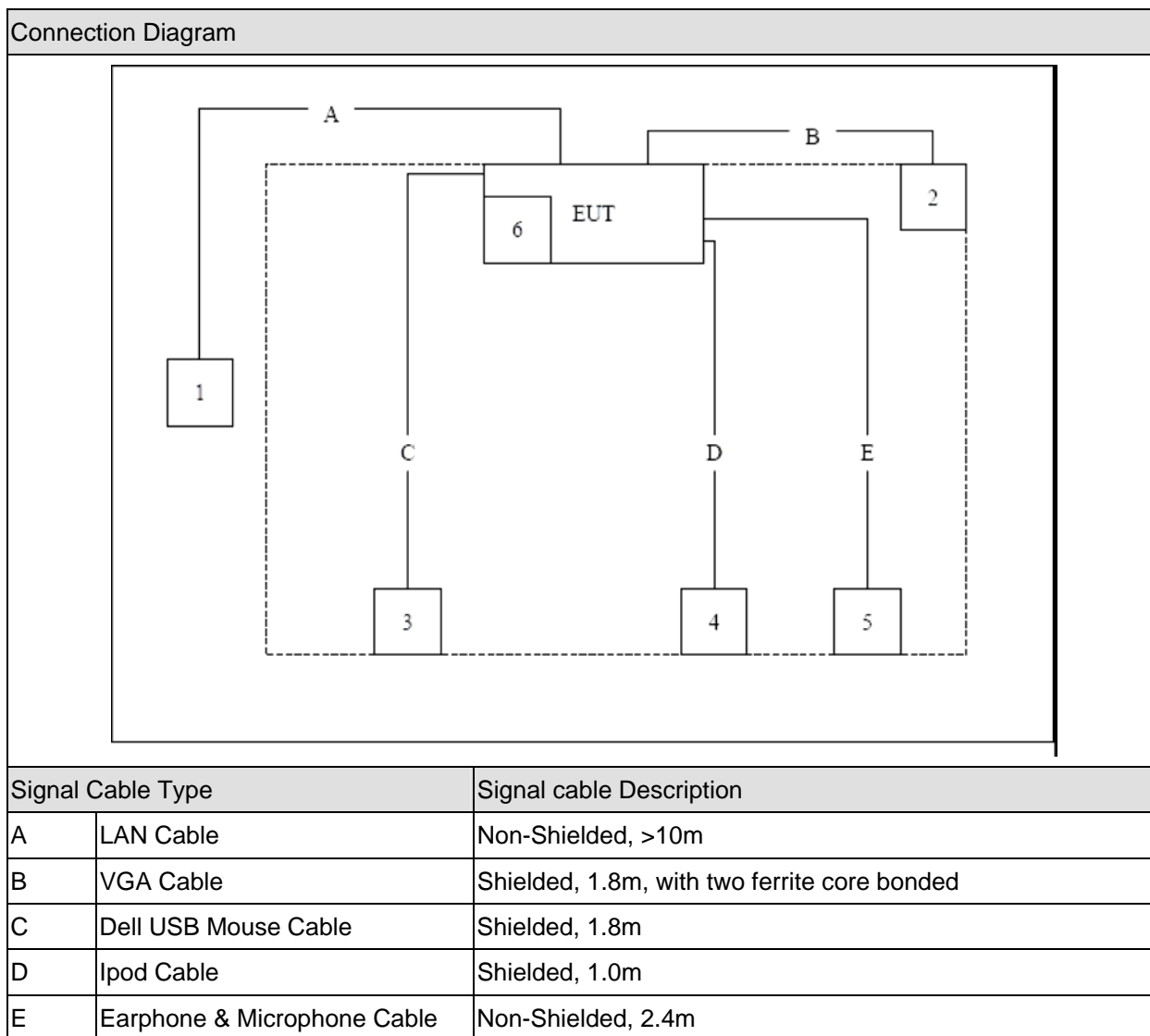
1. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.
2. This device is a composite device in accordance with Part 15 Subpart B regulations. The function for the receiver was measured and made a test report that the report number is 099S094.

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 Notebook	DELL	PP19L	JH097 A01	Power by adapter
2 LCD Monitor	Lenovo	L2240pwD	9M0337992301042	Non-Shielded, 1.8m
3 USB Mouse	DELL	MO56UOA	GOQ024HJ	Power by PC
4 iPod	Apple	A1199	6U715UY9VQ5	Power by PC
5 Microphone & Earphone	SOMIC	SM-510	N/A	N/A
6 SD Card	Kingston	1GB	N/A	N/A

1.4. Configuration of Tested System



1.5. EUT Exercise Software

1	Setup the EUT and simulators as shown on above
2	Turn on the power of equipment.
3	Run control software "Raul" 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

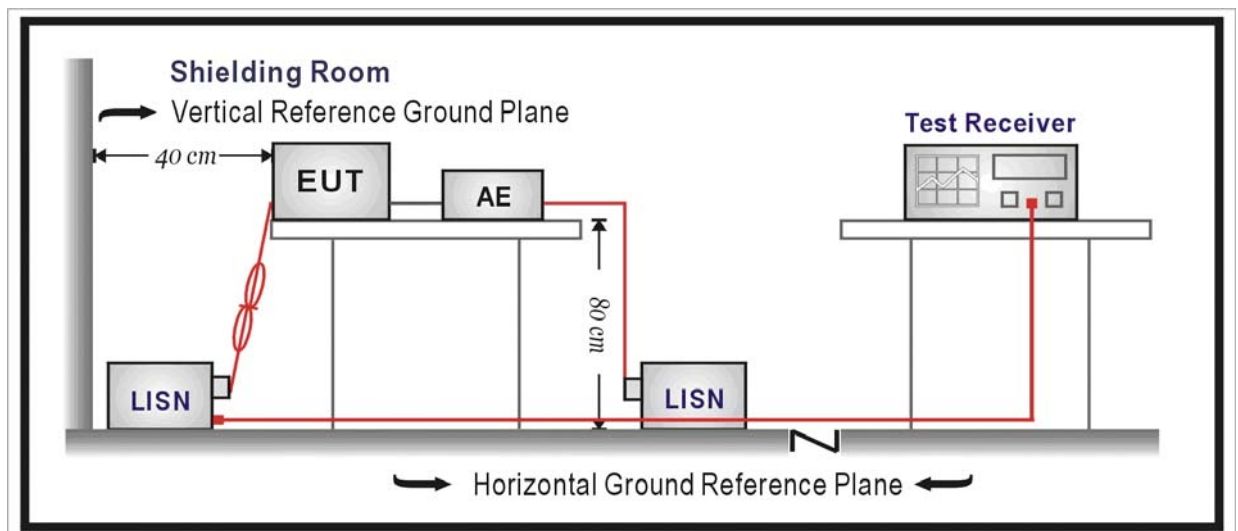
3.1. Test Equipment

Conducted Emission / SR-1

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
EMI Test Receiver	R&S	ESCI	100726	2009/02/07
Two-Line V-Network	R&S	ENV216	100013	2008/11/15
Two-Line V-Network	R&S	ENV216	100014	2008/11/15
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2008/11/25
50ohm Termination	SHX	TF2	07081401	2008/10/19
Coaxial Cable	Luthi	RG214	519358	2008/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH004	2009/03/31

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

3.2. Test Setup



3.3. Limit

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

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

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

3.4. Test Procedure

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

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

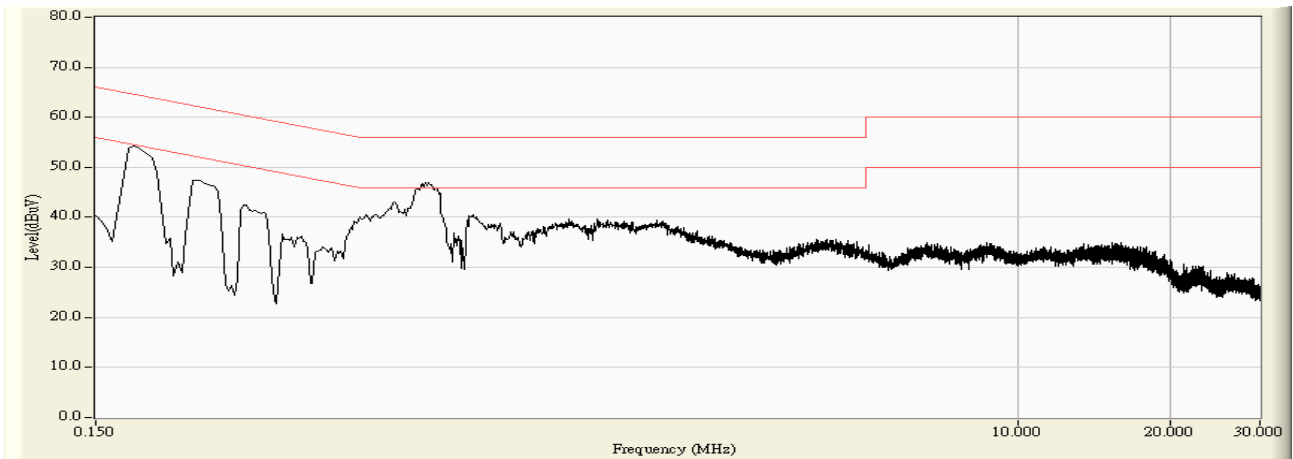
The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

3.5. Uncertainty

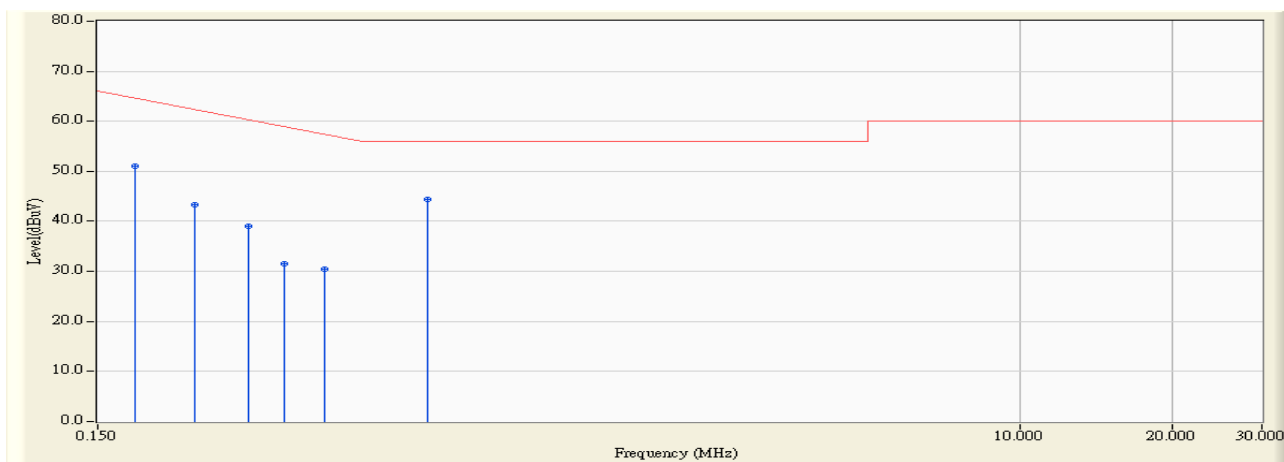
The measurement uncertainty is defined as ± 2.02 dB

3.6. Test Result

Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2009/10/15 - 04:48
Limit : FCC_SPartC_15.207_00M_QP	Margin : 10
Probe : ENV216_100014(0.009-30MHz) - Line1	Power : AC 120V/60Hz
EUT : Eee PC	Note : Mode 1: Transmit by 802.11b

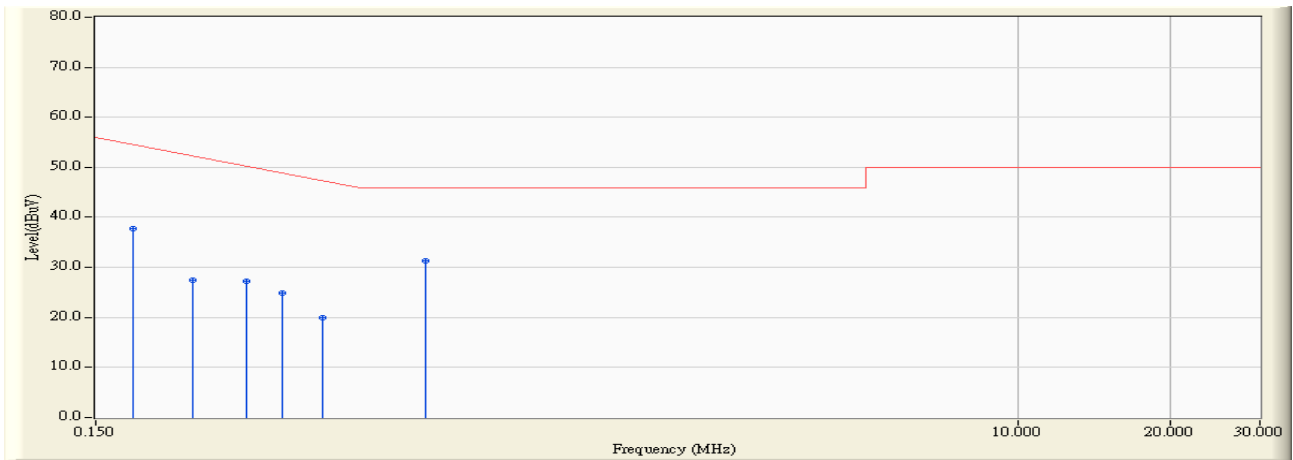


Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2009/10/15 - 04:54
Limit : FCC_SPartC_15.207_00M_QP	Margin : 0
Probe : ENV216_100014(0.009-30MHz) - Line1	Power : AC 120V/60Hz
EUT : Eee PC	Note : Mode 1: Transmit by 802.11b



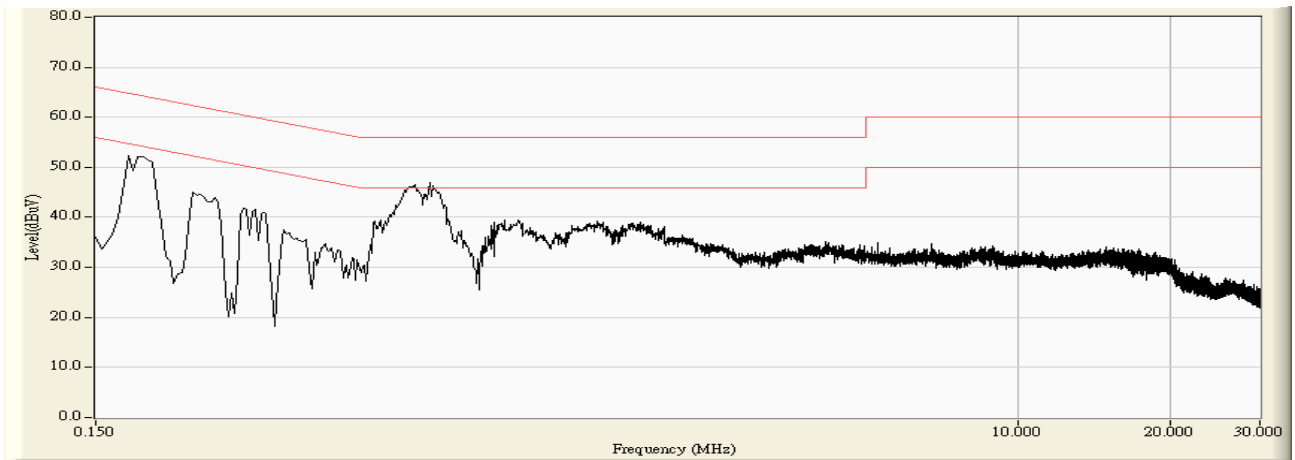
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.178	9.852	41.300	51.152	-13.426	64.578	QUASIPeAK
2		0.234	9.450	33.800	43.250	-19.057	62.307	QUASIPeAK
3		0.298	9.503	29.600	39.102	-21.196	60.298	QUASIPeAK
4		0.350	9.537	22.000	31.537	-27.425	58.962	QUASIPeAK
5		0.422	9.578	20.900	30.478	-26.931	57.409	QUASIPeAK
6	*	0.674	9.672	34.800	44.472	-11.528	56.000	QUASIPeAK

Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2009/10/15 - 04:54
Limit : FCC_SPartC_15.207_00M_AV	Margin : 0
Probe : ENV216_100014(0.009-30MHz) - Line1	Power : AC 120V/60Hz
EUT : Eee PC	Note : Mode 1: Transmit by 802.11b

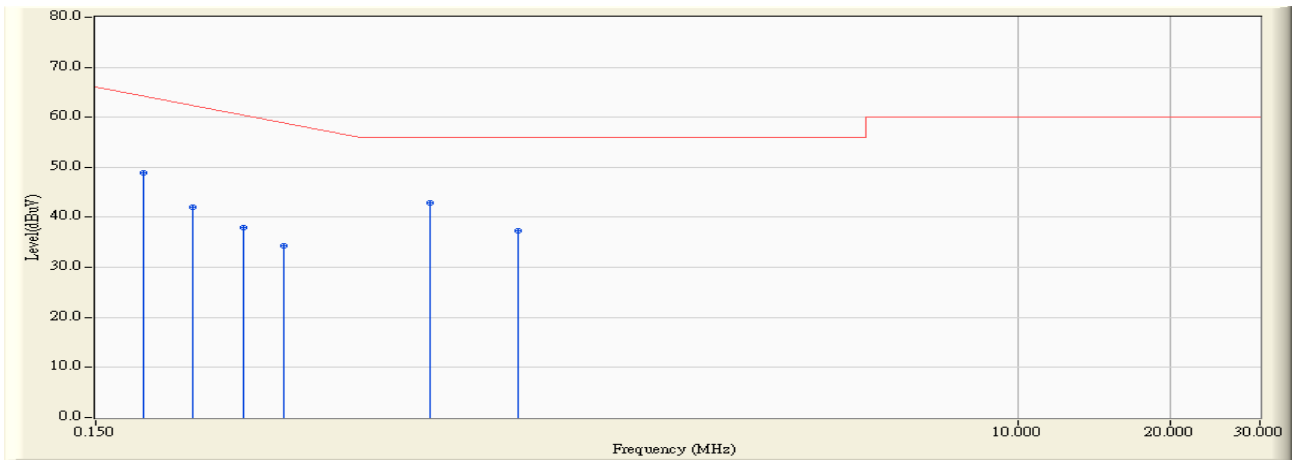


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.178	9.852	27.900	37.752	-16.826	54.578	AVERAGE
2		0.234	9.450	18.100	27.550	-24.757	52.307	AVERAGE
3		0.298	9.503	17.800	27.302	-22.996	50.298	AVERAGE
4		0.350	9.537	15.400	24.937	-24.025	48.962	AVERAGE
5		0.422	9.578	10.400	19.978	-27.431	47.409	AVERAGE
6	*	0.674	9.672	21.700	31.372	-14.628	46.000	AVERAGE

Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2009/10/15 - 04:57
Limit : FCC_SPartC_15.207_00M_QP	Margin : 10
Probe : ENV216_100014(0.009-30MHz) - Line2	Power : AC 120V/60Hz
EUT : Eee PC	Note : Mode 1: Transmit by 802.11b

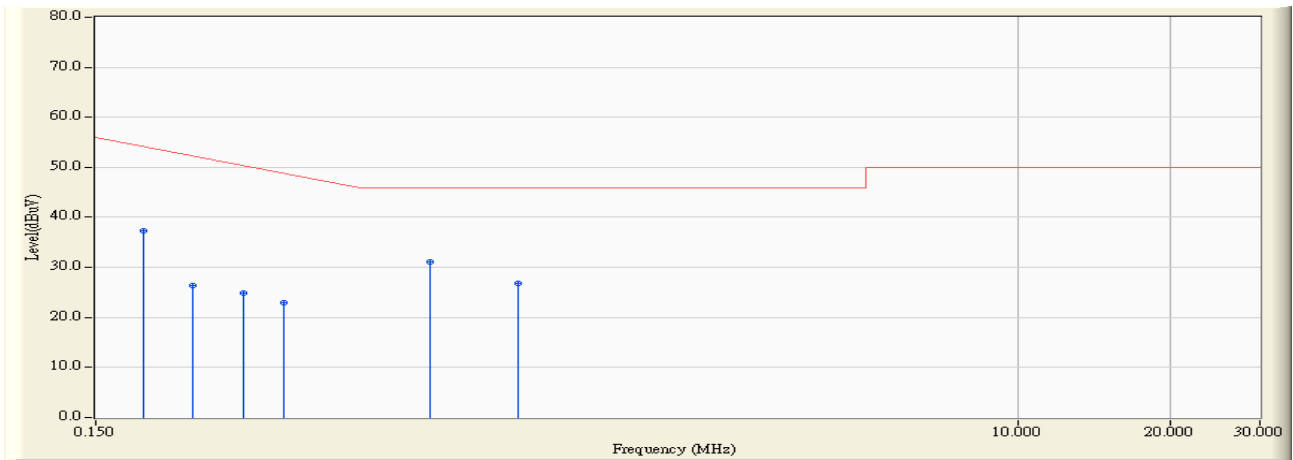


Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2009/10/15 - 04:59
Limit : FCC_SPartC_15.207_00M_QP	Margin : 0
Probe : ENV216_100014(0.009-30MHz) - Line2	Power : AC 120V/60Hz
EUT : Eee PC	Note : Mode 1: Transmit by 802.11b



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.186	9.732	39.100	48.832	-15.381	64.213	QUASIPeAK
2		0.234	9.580	32.400	41.980	-20.327	62.307	QUASIPeAK
3		0.294	9.598	28.300	37.898	-22.513	60.411	QUASIPeAK
4		0.354	9.605	24.800	34.405	-24.463	58.868	QUASIPeAK
5	*	0.686	9.761	33.200	42.961	-13.039	56.000	QUASIPeAK
6		1.026	9.780	27.600	37.380	-18.620	56.000	QUASIPeAK

Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2009/10/15 - 04:59
Limit : FCC_SPartC_15.207_00M_AV	Margin : 0
Probe : ENV216_100014(0.009-30MHz) - Line2	Power : AC 120V/60Hz
EUT : Eee PC	Note : Mode 1: Transmit by 802.11b



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.186	9.732	27.500	37.232	-16.981	54.213	AVERAGE
2		0.234	9.580	16.700	26.280	-26.027	52.307	AVERAGE
3		0.294	9.598	15.300	24.898	-25.513	50.411	AVERAGE
4		0.354	9.605	13.300	22.905	-25.963	48.868	AVERAGE
5	*	0.686	9.761	21.300	31.061	-14.939	46.000	AVERAGE
6		1.026	9.780	17.000	26.780	-19.220	46.000	AVERAGE

4. Radiated Emission

4.1. Test Equipment

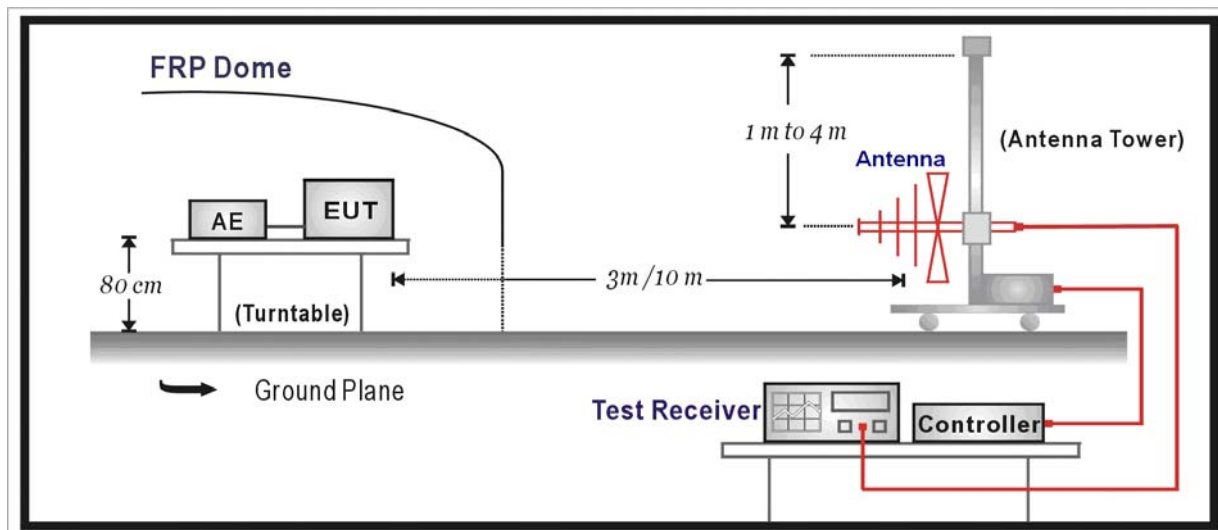
Radiated Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4408B	MY45102679	2008/11/12
EMI Test Receiver	R&S	ESCI	100573	2009/05/10
Preamplifier	Quietek	AP-025C	QT-AP003	2008/11/25
Preamplifier	Quietek	AP-180C	CHM-0602012	2008/11/25
Bilog Type Antenna	Schaffner	CBL6112B	2932	2008/11/22
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2008/11/25
High-Pass Filter	Wainwright	WHKX2.8/18G-12SS	SN1	2009/03/03
Band Reject Filter	Wainwright	WRCG2400/2485-2375 /2510-60/11SS	SN9	2009/03/03
High-Pass Filter	Wainwright	WHKX7.0/18G-8SS	SN16	2009/03/03
Low-Pass Filter	Wainwright	WLKS4500-9SS	SN2	2009/03/03
50ohm Coaxial Switch	Anritsu	MP59B	6200447304	2008/11/25
Coaxial Cable	Huber+Suhner	AC2-C	04	2008/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH002	2009/03/31

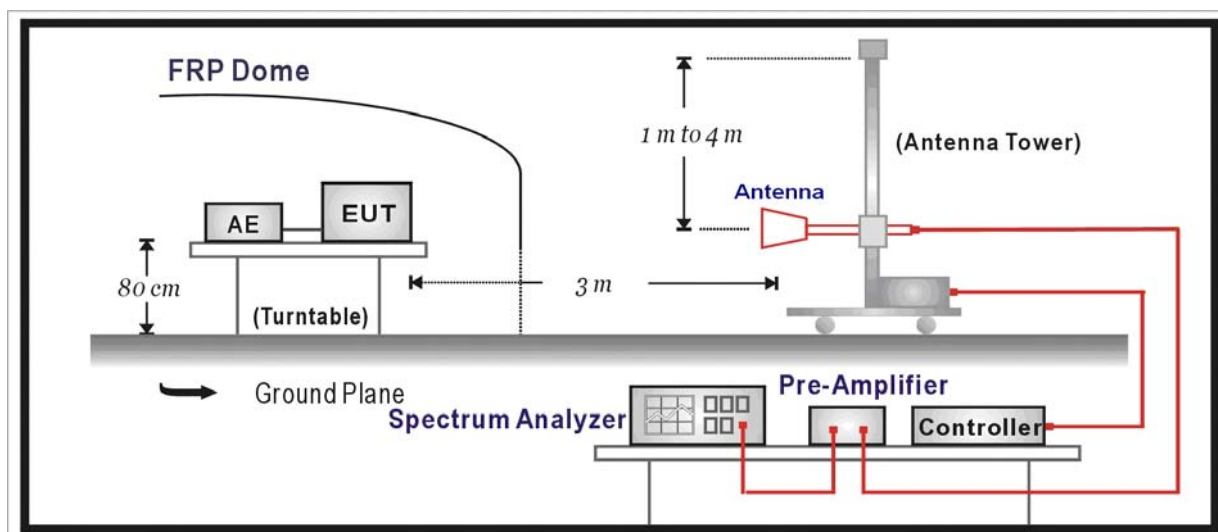
Note 1: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

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.

802.11b

CH	Antenna	Frequency (MHz)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	H	2413.070	105.92	Fundamental	/	PK
	H	335.908	38.91	Spurious	/	QP
	H	527.585	39.37	Spurious	/	QP
	V	6542.000	50.95	Spurious	/	PK
	V	5354.177	43.77	54	-10.23	PK
	V	14470.752	46.35	54	-7.65	PK
	V	24000.000	50.23	54	-3.77	PK
6	H	2438.148	104.83	Fundamental	/	PK
	H	335.908	38.91	Spurious	/	QP
	H	527.585	39.37	Spurious	/	QP
	V	6542.000	50.95	Spurious	/	PK
	V	5354.177	43.77	54	-10.23	PK
	V	14470.752	46.35	54	-7.65	PK
	V	24000.000	50.23	54	-3.77	PK
11	V	2463.808	103.97	Fundamental	/	PK
	H	335.908	38.91	Spurious	/	QP
	H	527.585	39.37	Spurious	/	QP
	V	6542.000	50.95	Spurious	/	PK
	V	5354.177	43.77	54	-10.23	PK
	V	14470.752	46.35	54	-7.65	PK
	V	24000.000	50.23	54	-3.77	PK

802.11g

CH	Antenna	Frequency (MHz)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	H	2407.350	106.61	Fundamental	/	PK
	H	335.908	38.91	Spurious	/	QP
	H	527.585	39.37	Spurious	/	QP
	V	6542.000	50.95	Spurious	/	PK
	V	5354.177	43.77	54	-10.23	PK
	V	14470.752	46.35	54	-7.65	PK
	V	24000.000	50.23	54	-3.77	PK
6	H	2433.470	106.52	Fundamental	/	PK
	H	335.908	38.91	Spurious	/	QP
	H	527.585	39.37	Spurious	/	QP
	V	6542.000	50.95	Spurious	/	PK
	V	5354.177	43.77	54	-10.23	PK
	V	14470.752	46.35	54	-7.65	PK
	V	24000.000	50.23	54	-3.77	PK
11	H	2457.184	106.84	Fundamental	/	PK
	H	335.908	38.91	Spurious	/	QP
	H	527.585	39.37	Spurious	/	QP
	V	6542.000	50.95	Spurious	/	PK
	V	5354.177	43.77	54	-10.23	PK
	V	14470.752	46.35	54	-7.65	PK
	V	24000.000	50.23	54	-3.77	PK

802.11n(20MHz)

CH	Antenna	Frequency (MHz)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	H	2413.620	105.92	Fundamental	/	PK
	H	335.908	38.91	Spurious	/	QP
	H	527.585	39.37	Spurious	/	QP
	V	6542.000	50.95	Spurious	/	PK
	V	5354.177	43.77	54	-10.23	PK
	V	14470.752	46.35	54	-7.65	PK
	V	24000.000	50.23	54	-3.77	PK
6	H	2438.492	106.37	Fundamental	/	PK
	H	335.908	38.91	Spurious	/	QP
	H	527.585	39.37	Spurious	/	QP
	V	6542.000	50.95	Spurious	/	PK
	V	5354.177	43.77	54	-10.23	PK
	V	14470.752	46.35	54	-7.65	PK
	V	24000.000	50.23	54	-3.77	PK
11	H	2459.056	106.25	Fundamental	/	PK
	H	335.908	38.91	Spurious	/	QP
	H	527.585	39.37	Spurious	/	QP
	V	6542.000	50.95	Spurious	/	PK
	V	5354.177	43.77	54	-10.23	PK
	V	14470.752	46.35	54	-7.65	PK
	V	24000.000	50.23	54	-3.77	PK

802.11n(40MHz)

CH	Antenna	Frequency (MHz)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
3	H	2429.600	103.63	Fundamental	/	PK
	H	335.908	38.91	Spurious	/	QP
	H	527.585	39.37	Spurious	/	QP
	V	6542.000	50.95	Spurious	/	PK
	V	5354.177	43.77	54	-10.23	PK
	V	14470.752	46.35	54	-7.65	PK
	V	24000.000	50.23	54	-3.77	PK
6	H	2440.280	103.67	Fundamental	/	PK
	H	335.908	38.91	Spurious	/	QP
	H	527.585	39.37	Spurious	/	QP
	V	6542.000	50.95	Spurious	/	PK
	V	5354.177	43.77	54	-10.23	PK
	V	14470.752	46.35	54	-7.65	PK
	V	24000.000	50.23	54	-3.77	PK
9	H	2447.500	103.60	Fundamental	/	PK
	H	335.908	38.91	Spurious	/	QP
	H	527.585	39.37	Spurious	/	QP
	V	6542.000	50.95	Spurious	/	PK
	V	5354.177	43.77	54	-10.23	PK
	V	14470.752	46.35	54	-7.65	PK
	V	24000.000	50.23	54	-3.77	PK

5. RF Antenna Conducted Spurious

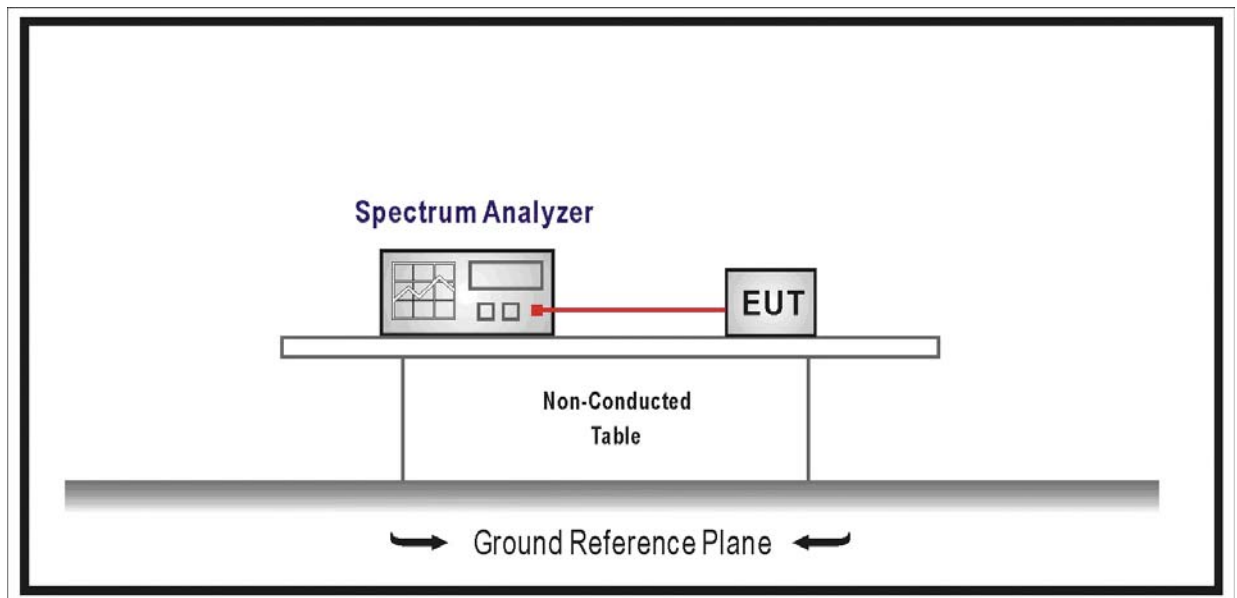
5.1. Test Equipment

RF Antenna Conducted Spurious / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2009/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2008/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2009/03/30

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.

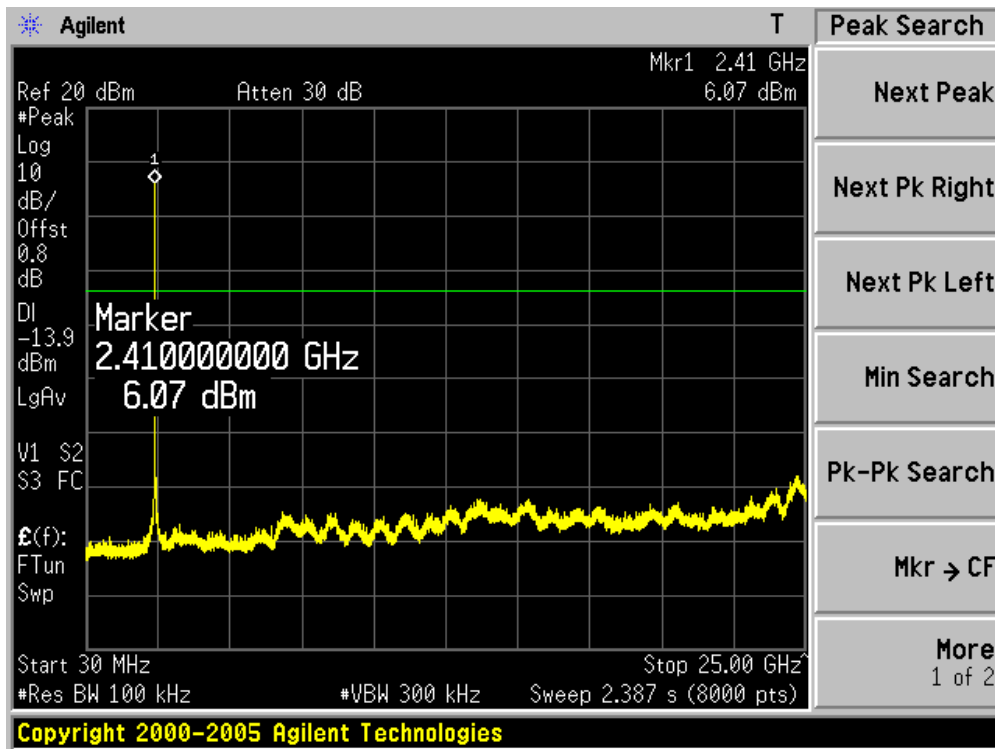
5.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

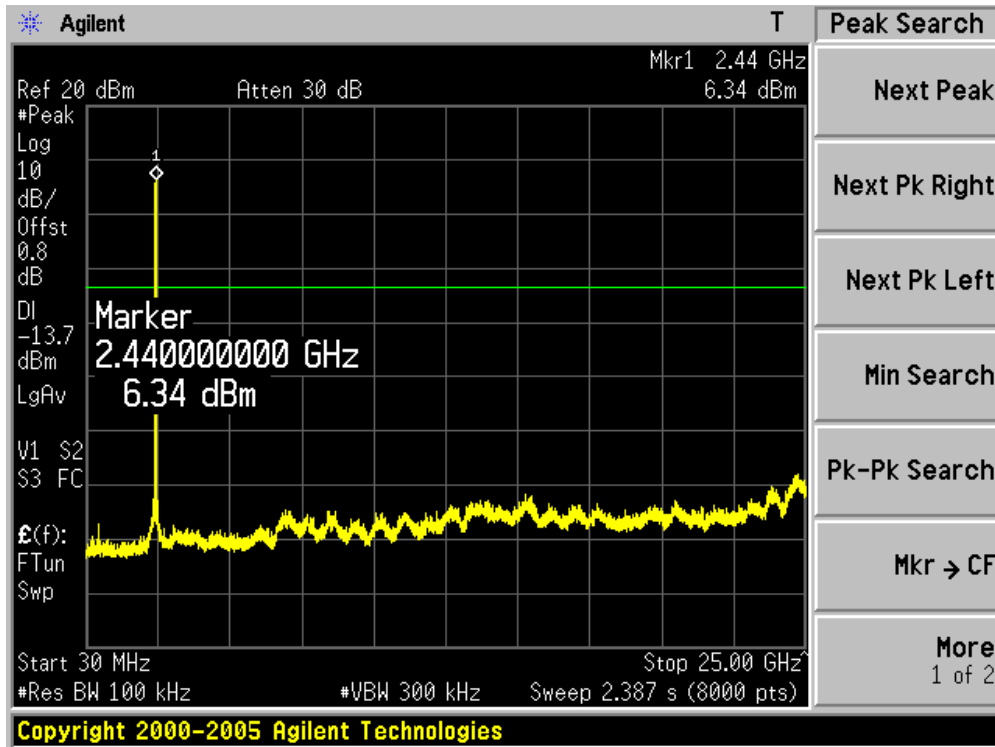
5.6. Test Result

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

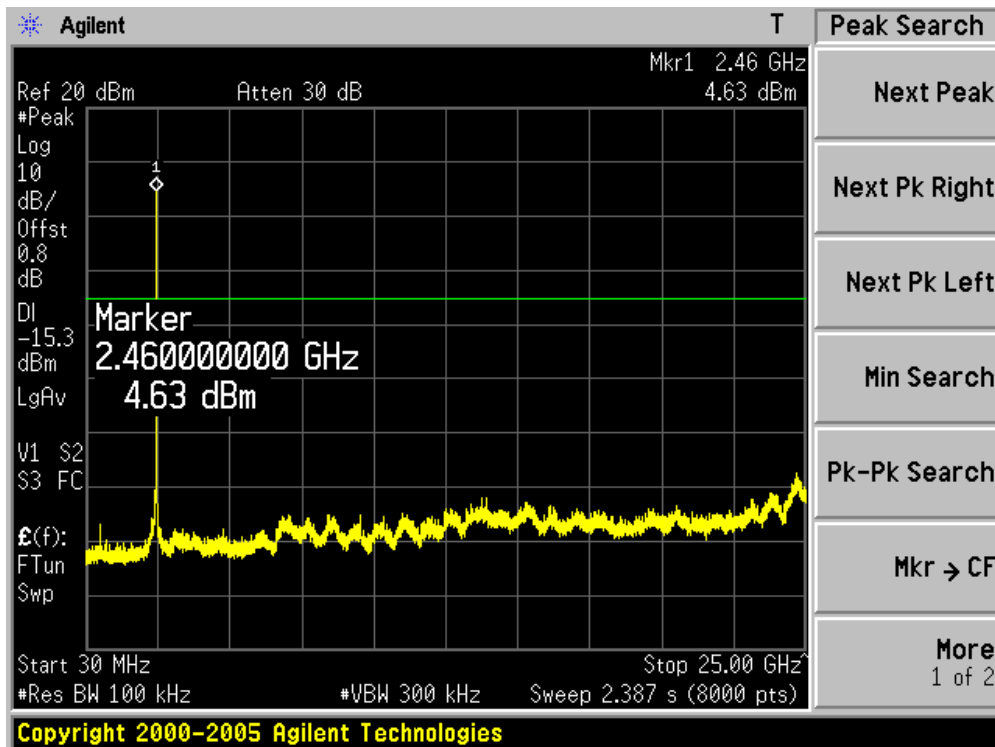
Channel 01 (2412MHz)



Channel 06 (2437MHz)

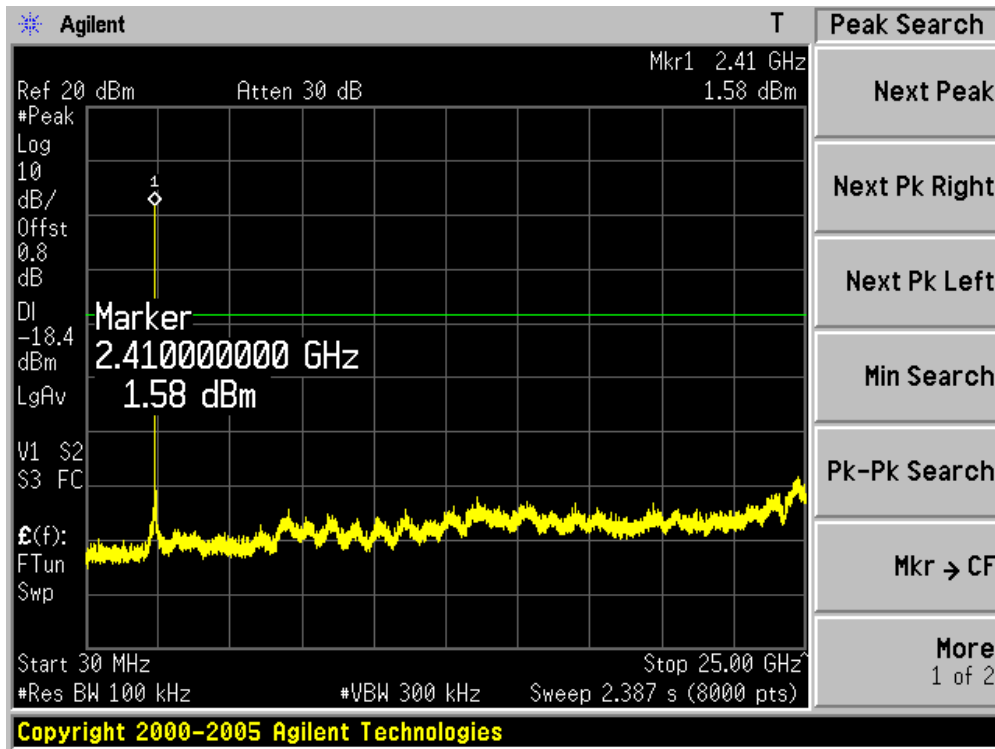


Channel 11 (2462MHz)

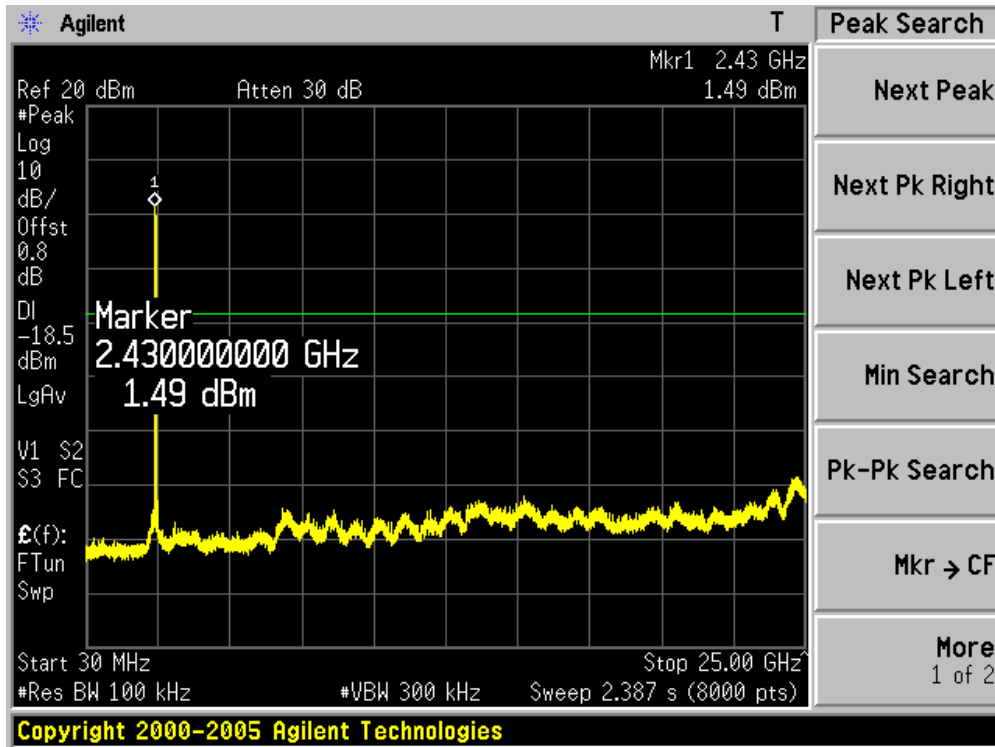


Product	:	Eee PC
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-6
Test Mode	:	Mode 2: Transmit by 802.11g (Chain A)

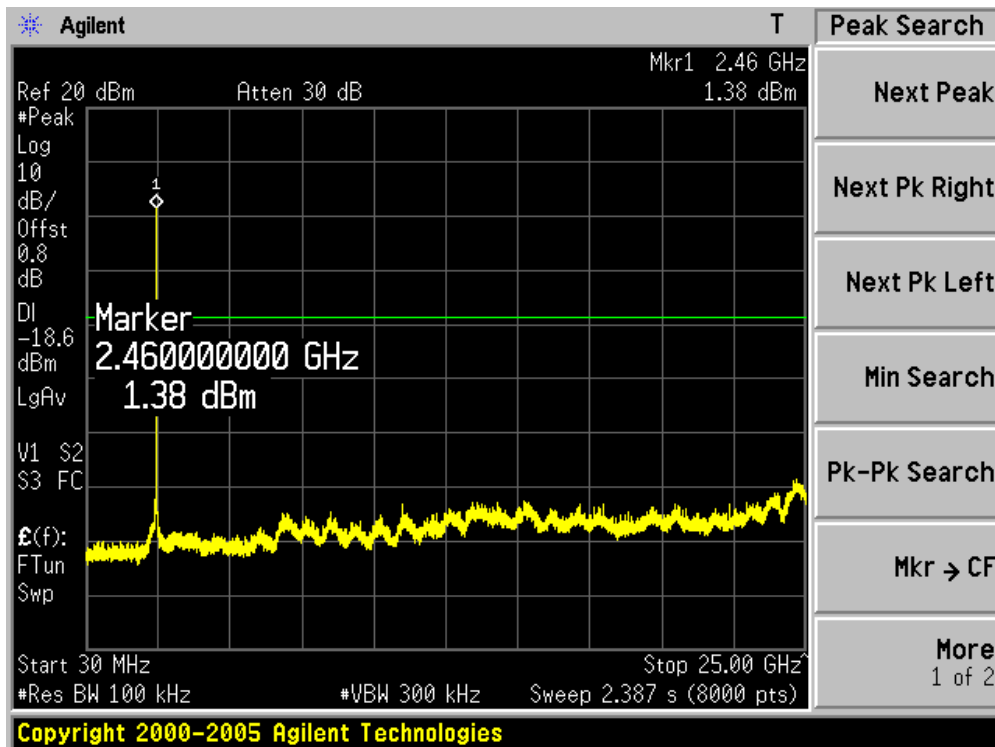
Channel 01 (2412MHz)



Channel 06 (2437MHz)

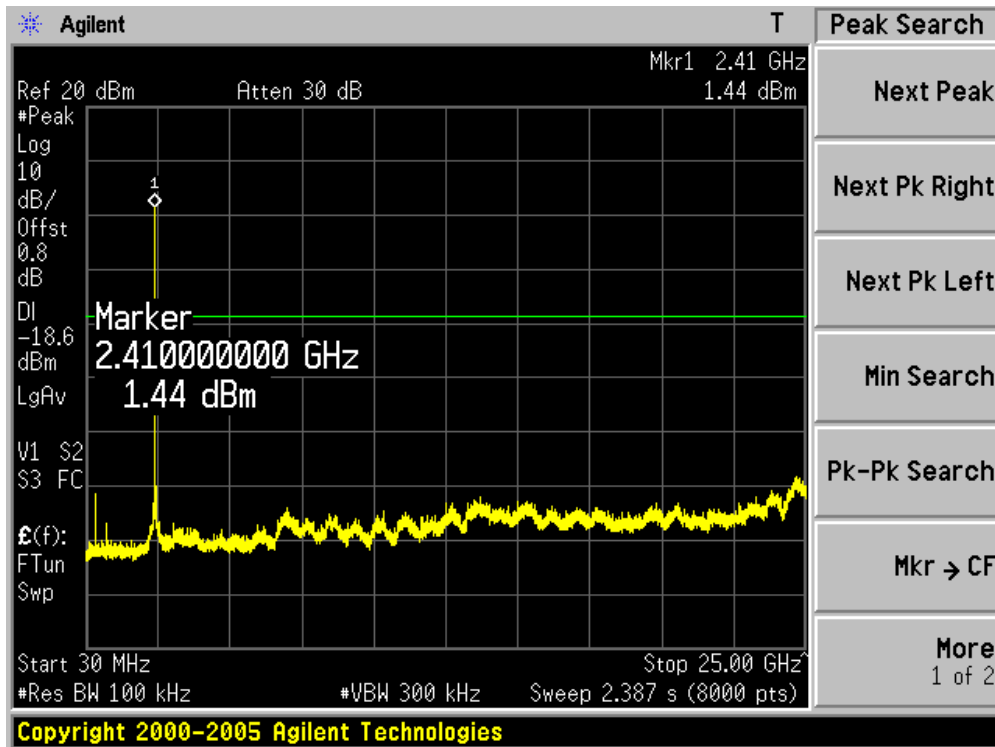


Channel 11 (2462MHz)

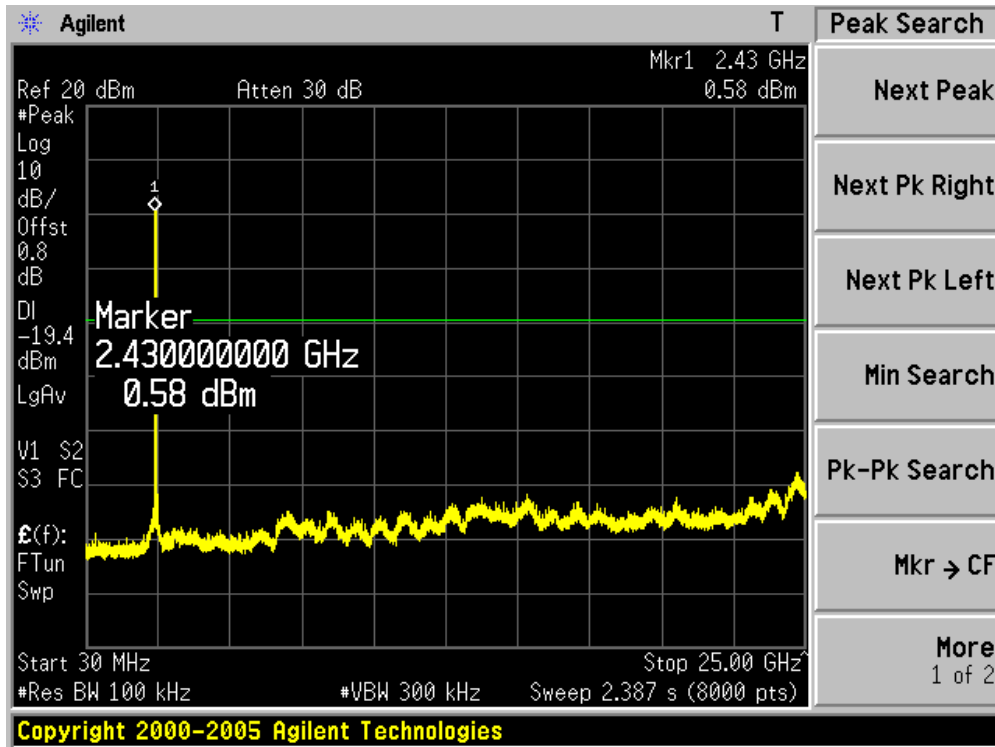


Product	:	Eee PC
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-6
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz)

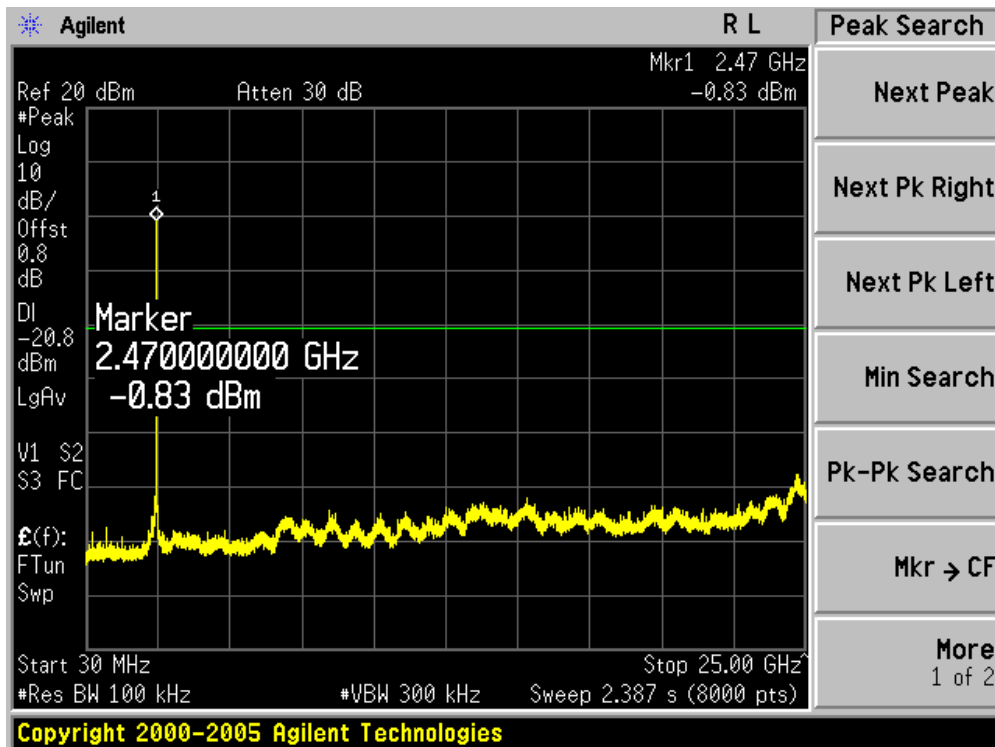
Channel 01 (2412MHz)



Channel 06 (2437MHz)

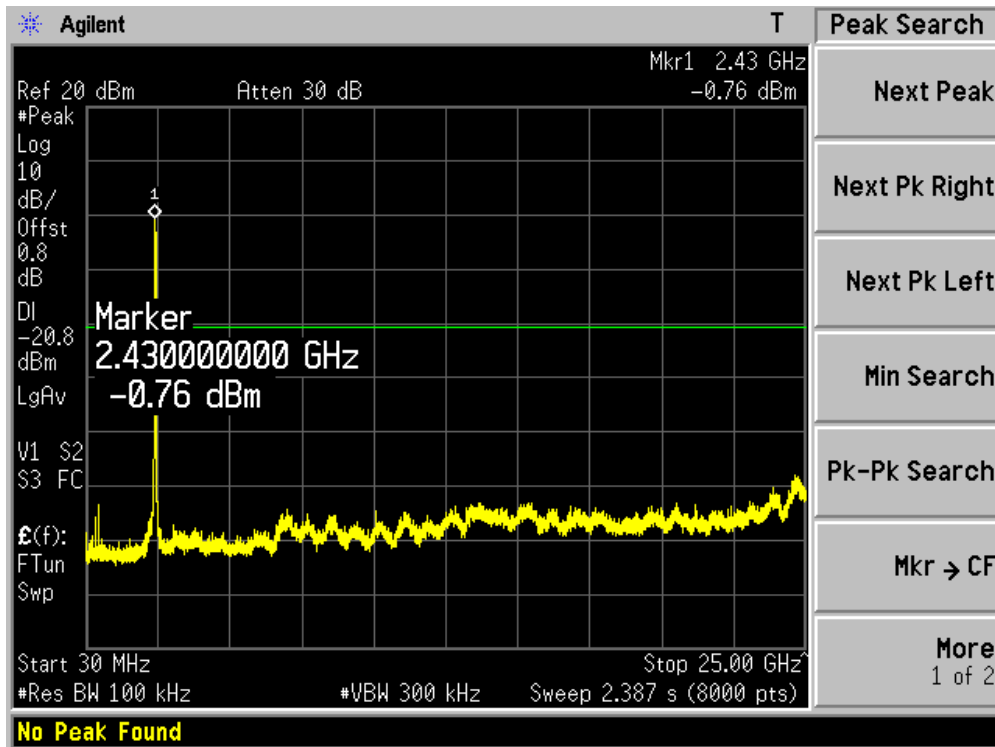


Channel 11 (2462MHz)

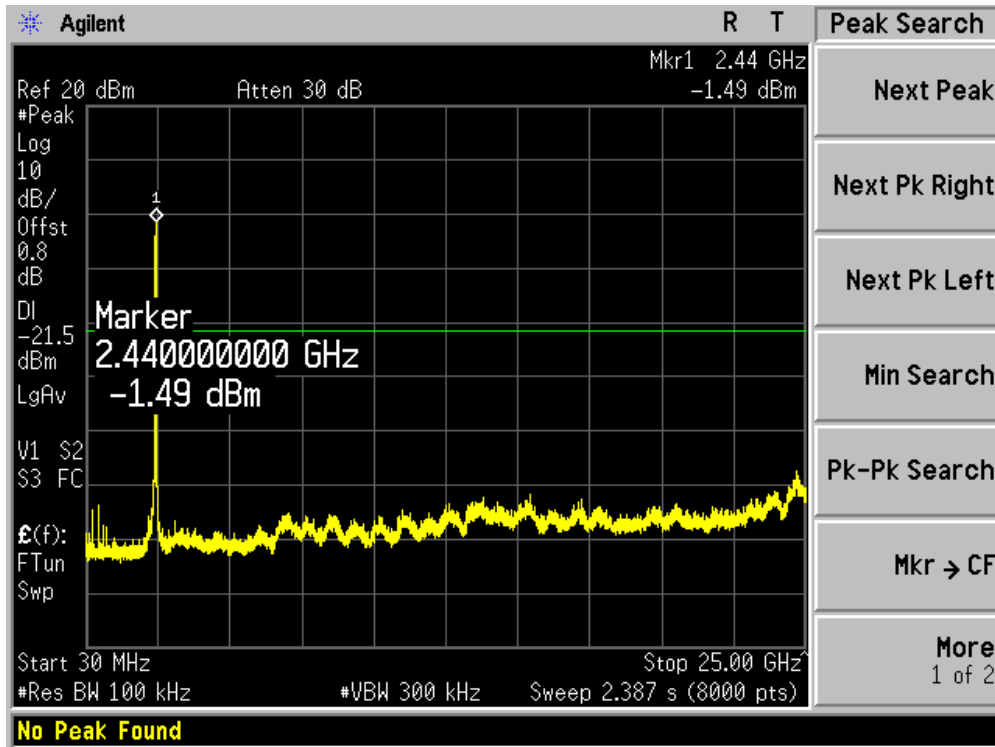


Product	:	Eee PC
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-6
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz)

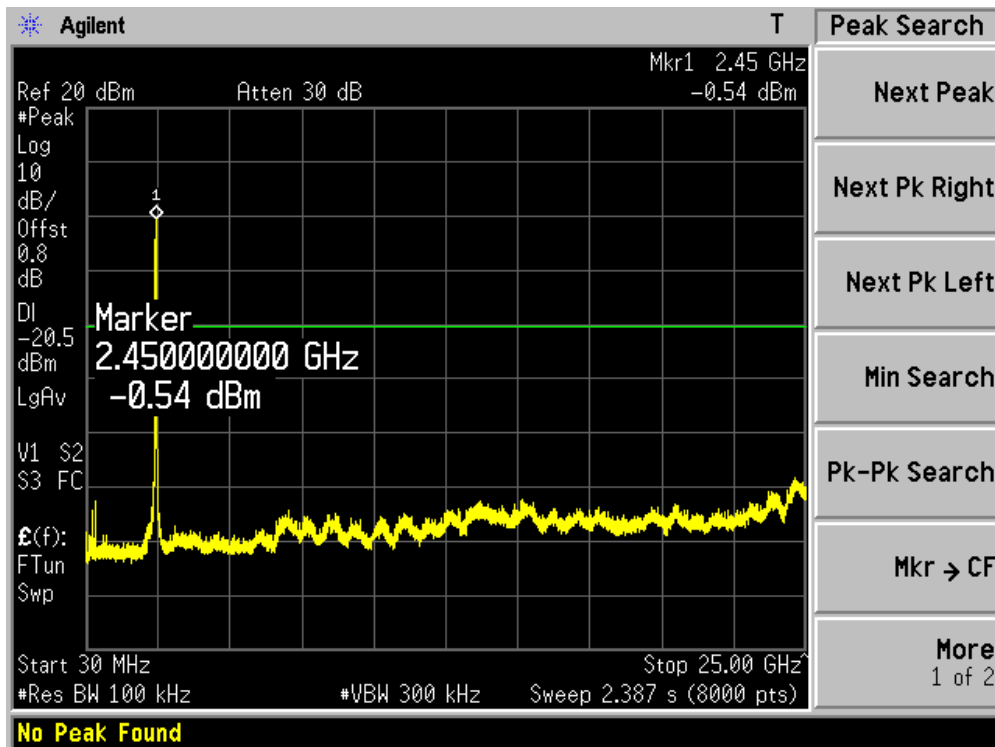
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



6. Radiated Emission Band Edge

6.1. Test Equipment

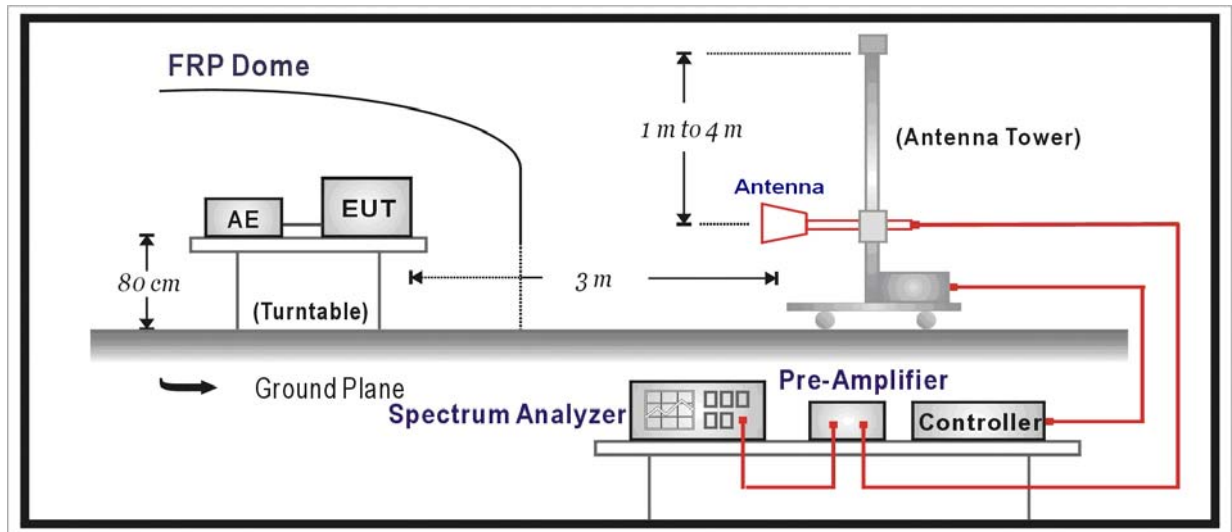
Radiated Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2009/06/11
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2008/11/25
Coaxial Cable	Huber+Suhner	AC2-C	04	2008/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH002	2009/03/31

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

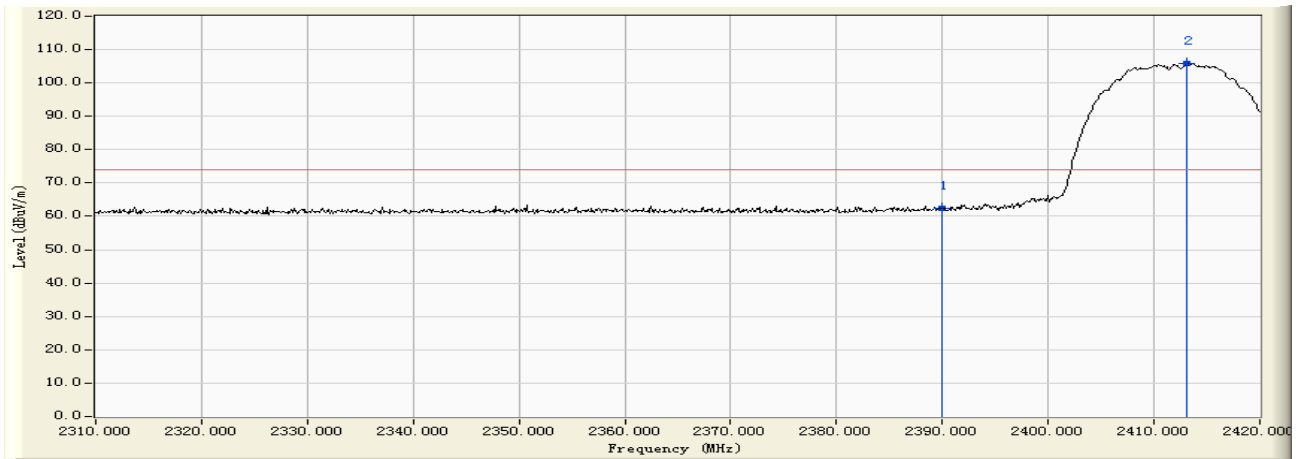
The measurement uncertainty above 1G is defined as ± 3.9 dB

6.6. Test Result

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

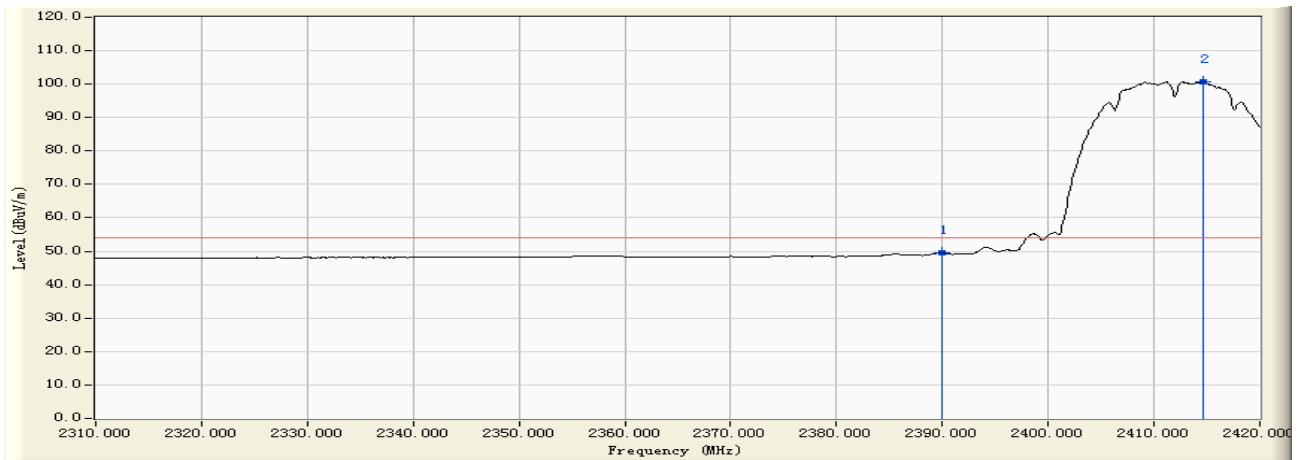
Average detector: RBW = 1MHz, VBW = 10Hz, sweep time = auto.

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/14 - 23:22
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 1: Transmit at channel 2412MHz by 802.11b



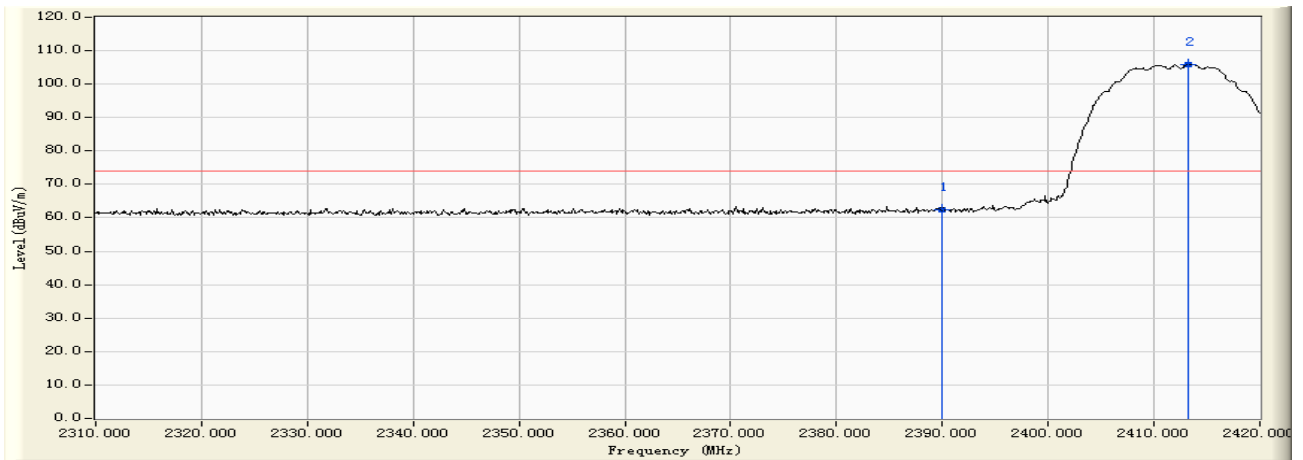
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2390.000	31.184	31.330	62.514	-11.456	73.970	PEAK
2	* 2413.070	31.191	74.727	105.918	N/A	N/A	PEAK

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/14 - 23:23
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 1: Transmit at channel 2412MHz by 802.11b



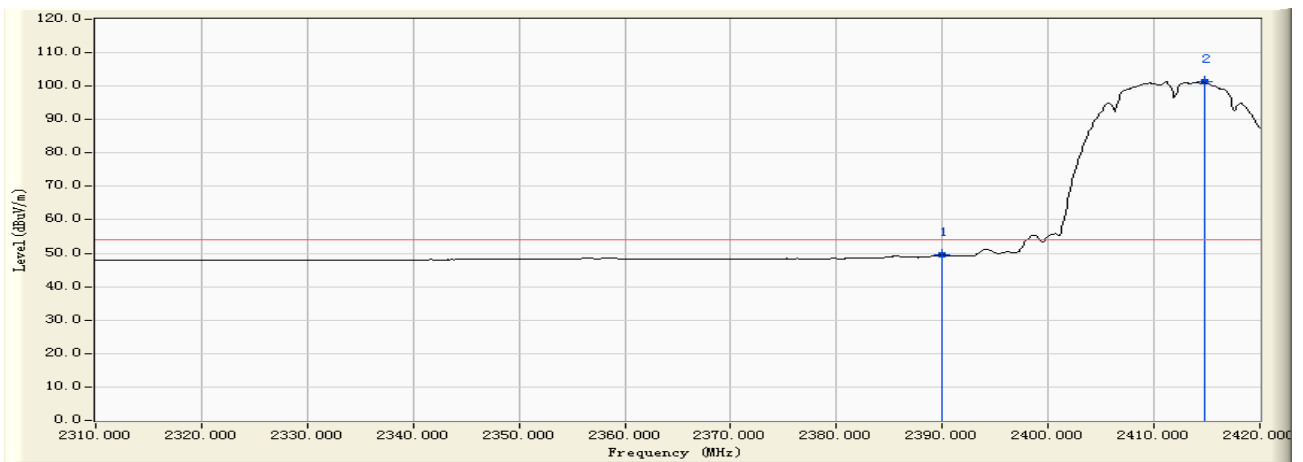
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2390.000	31.184	18.356	49.540	-4.430	53.970	AVERAGE
2	* 2414.610	31.193	69.616	100.809	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/14 - 23:26
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 1: Transmit at channel 2412MHz by 802.11b



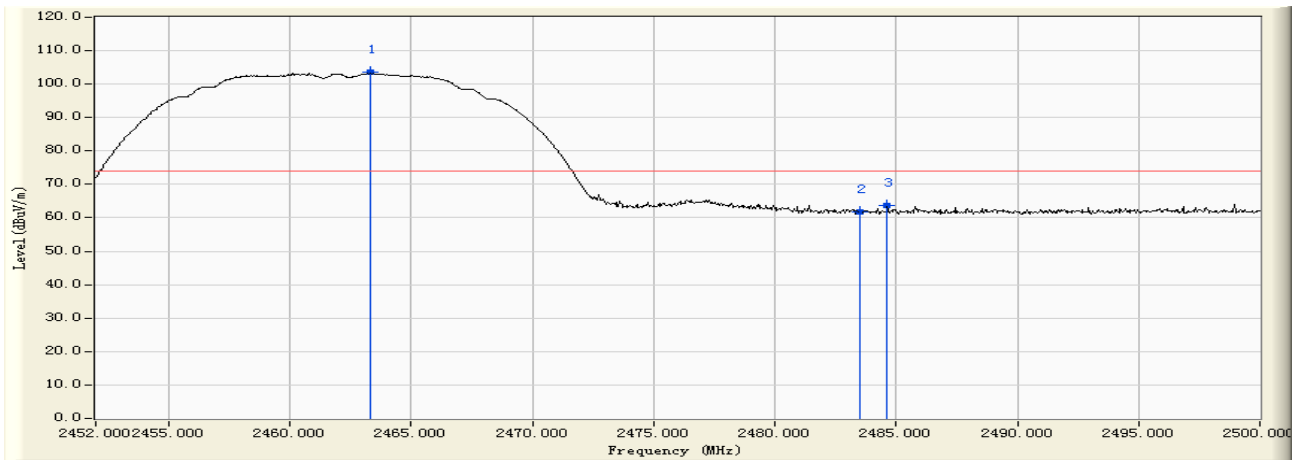
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2390.000	31.184	31.246	62.430	-11.540	73.970	PEAK
2	* 2413.290	31.192	74.701	105.892	N/A	N/A	PEAK

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/14 - 23:27
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 1: Transmit at channel 2412MHz by 802.11b



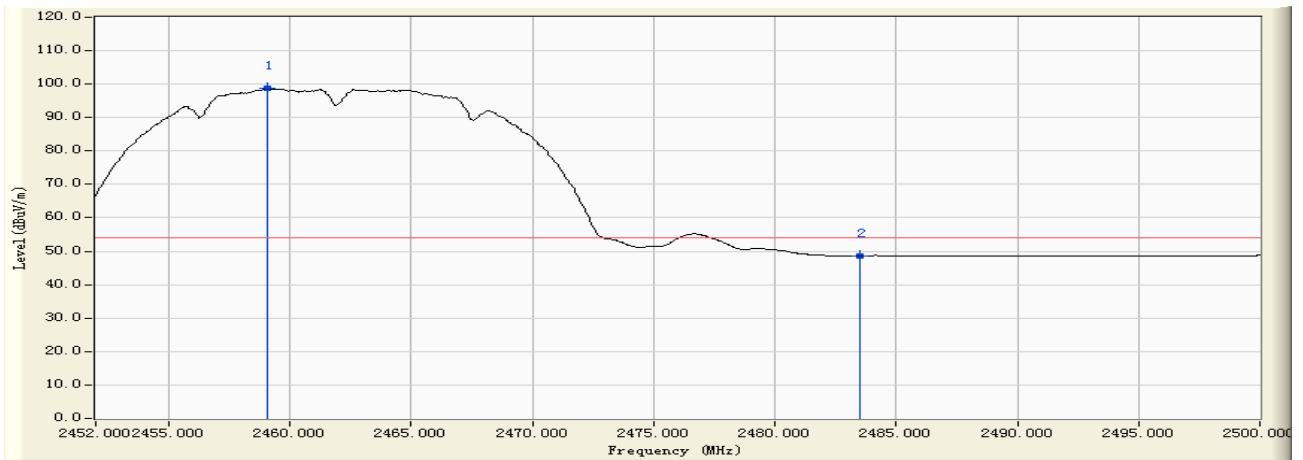
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2390.000	31.184	18.300	49.484	-4.486	53.970	AVERAGE
2	* 2414.720	31.193	70.063	101.256	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/14 - 23:31
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 1: Transmit at channel 2462MHz by 802.11b



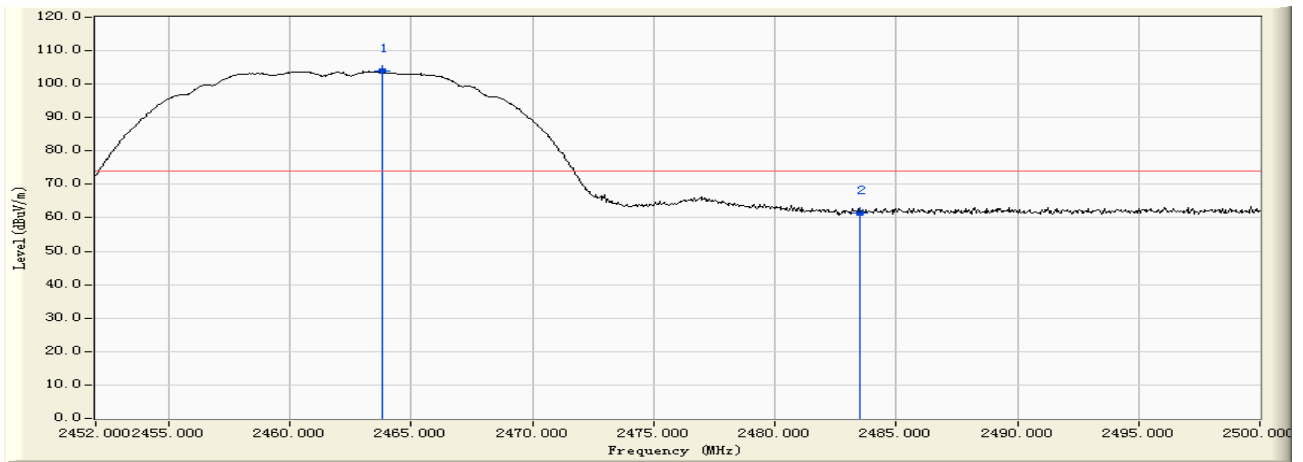
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.328	31.224	72.253	103.477	N/A	N/A	PEAK
2		2483.500	31.212	30.446	61.658	-12.312	73.970	PEAK
3		2484.640	31.212	32.489	63.700	-10.270	73.970	PEAK

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/14 - 23:31
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 1: Transmit at channel 2462MHz by 802.11b



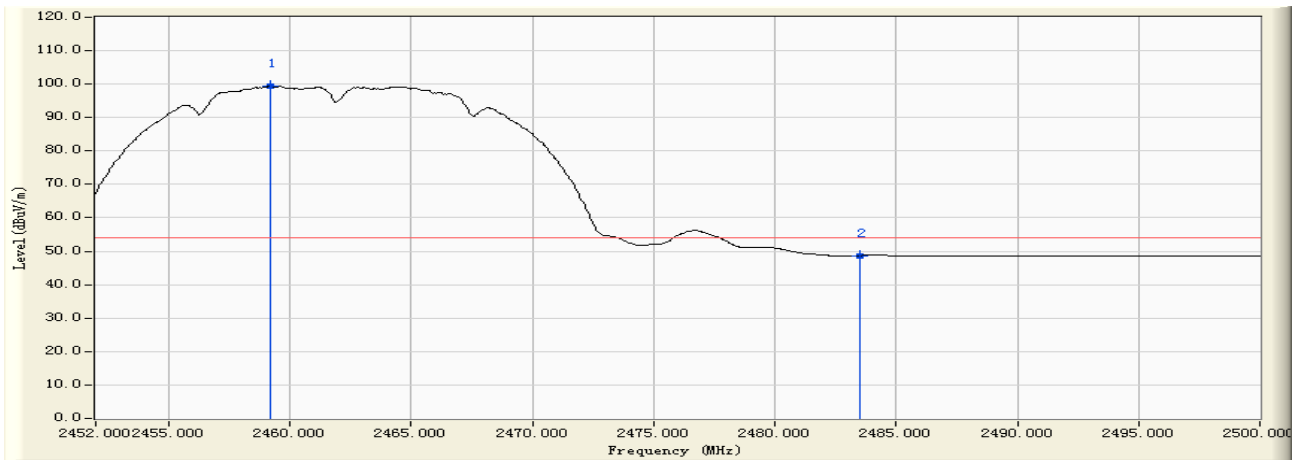
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2459.104	31.224	67.419	98.643	N/A	N/A	AVERAGE
2		2483.500	31.212	17.443	48.655	-5.315	53.970	AVERAGE

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/14 - 23:34
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 1: Transmit at channel 2462MHz by 802.11b



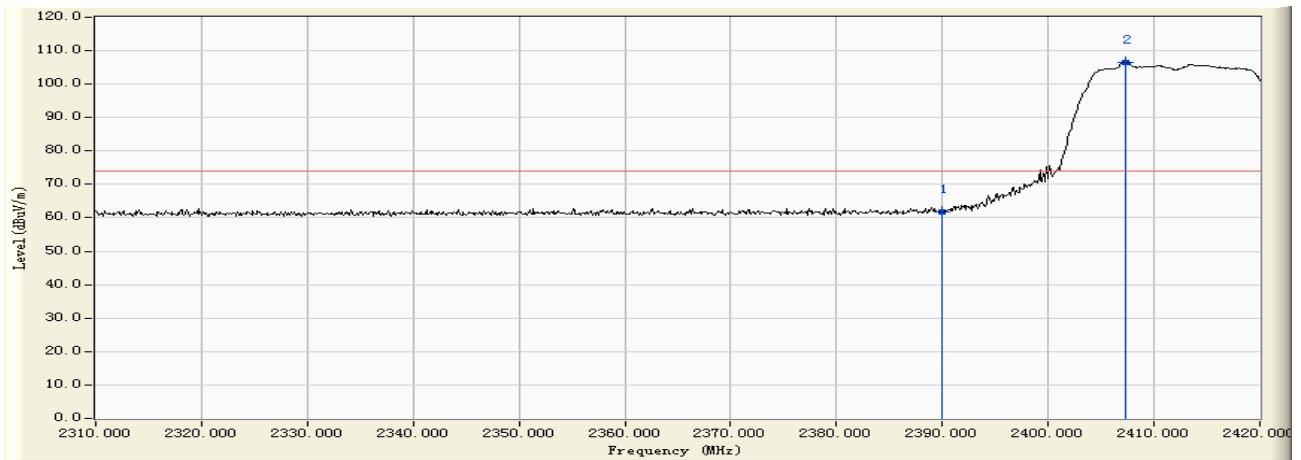
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.808	31.224	72.746	103.970	N/A	N/A	PEAK
2		2483.500	31.212	30.288	61.500	-12.470	73.970	PEAK

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/14 - 23:34
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 1: Transmit at channel 2462MHz by 802.11b



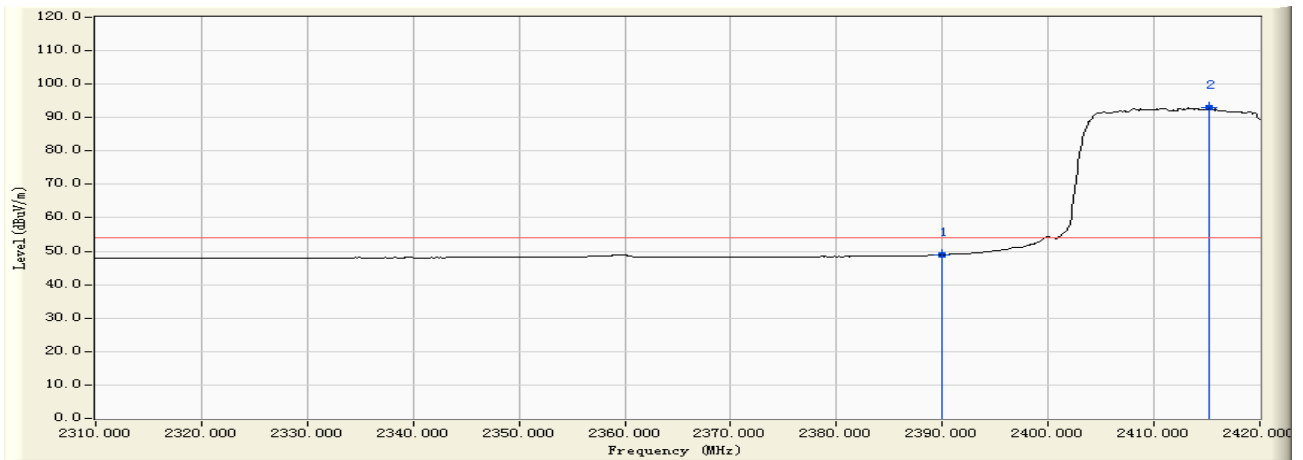
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2459.200	31.224	68.163	99.387	N/A	N/A	AVERAGE
2		2483.500	31.212	17.472	48.684	-5.286	53.970	AVERAGE

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/14 - 23:38
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 2: Transmit at channel 2412MHz by 802.11g



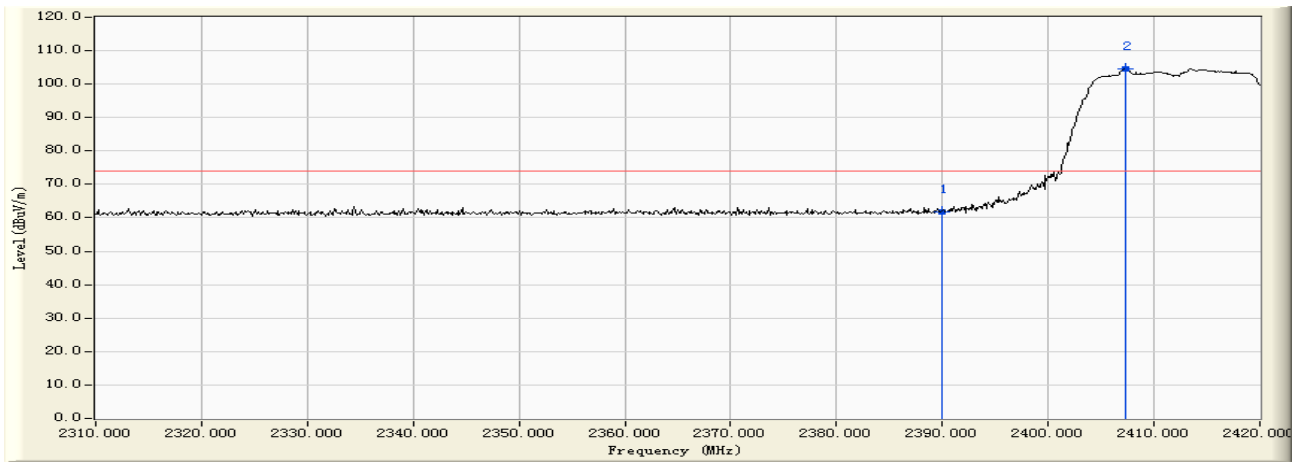
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2390.000	31.184	30.599	61.783	-12.187	73.970	PEAK
2	* 2407.350	31.187	75.420	106.607	N/A	N/A	PEAK

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/14 - 23:38
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 2: Transmit at channel 2412MHz by 802.11g



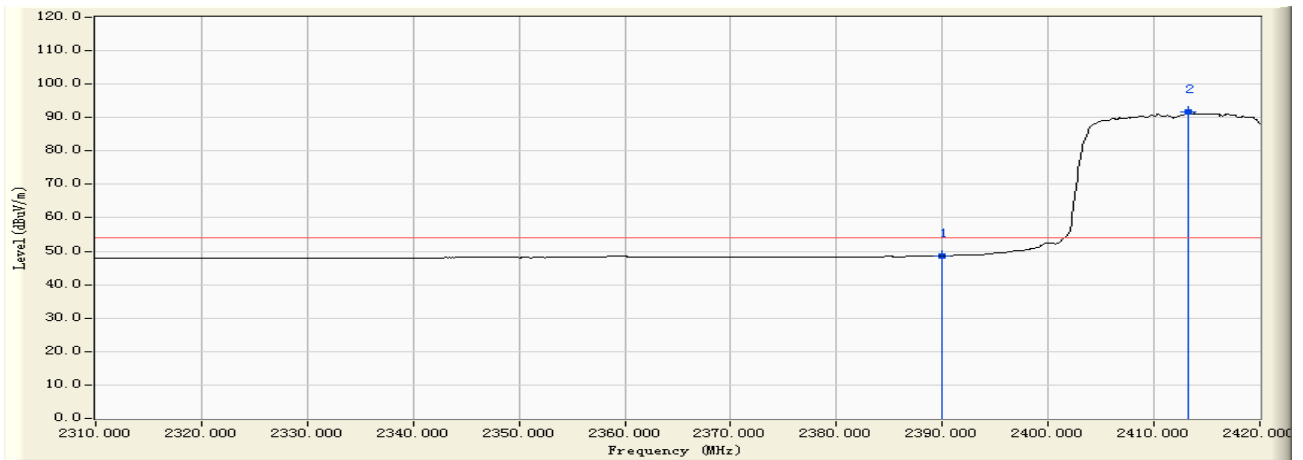
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2390.000	31.184	17.782	48.966	-5.004	53.970	AVERAGE
2	* 2415.160	31.193	61.667	92.860	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/14 - 23:41
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 2: Transmit at channel 2412MHz by 802.11g



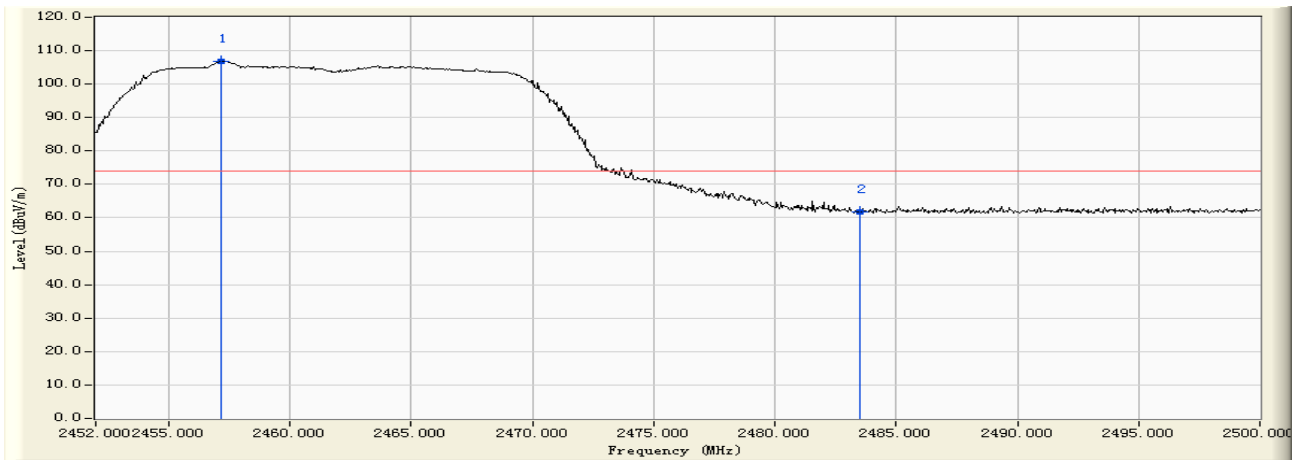
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2390.000	31.184	30.630	61.814	-12.156	73.970	PEAK
2	* 2407.240	31.187	73.436	104.623	N/A	N/A	PEAK

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/14 - 23:41
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 2: Transmit at channel 2412MHz by 802.11g



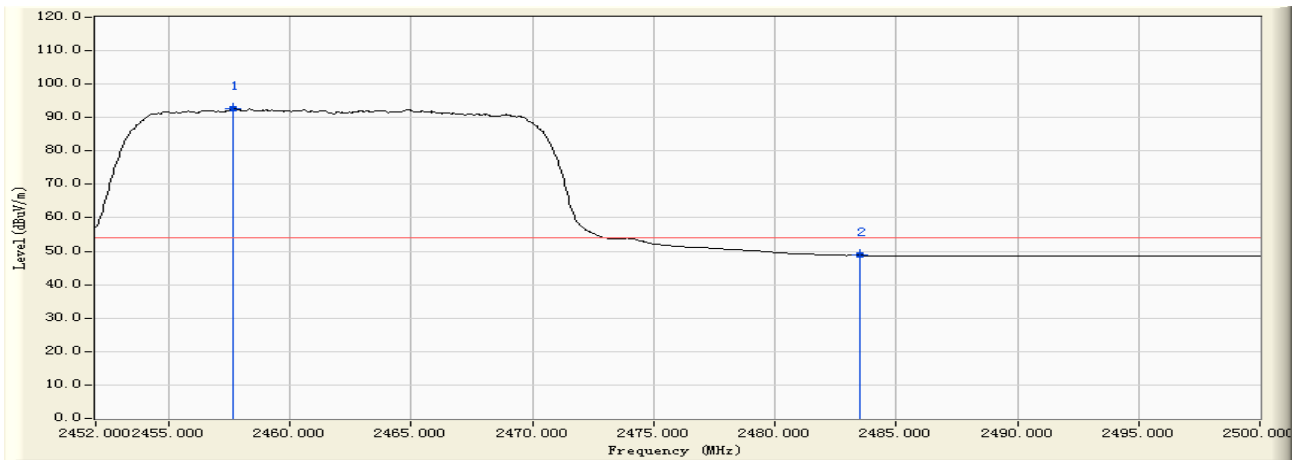
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	17.432	48.616	-5.354	53.970	AVERAGE
2	*	2413.180	31.192	60.395	91.586	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/14 - 23:47
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 2: Transmit at channel 2462MHz by 802.11g



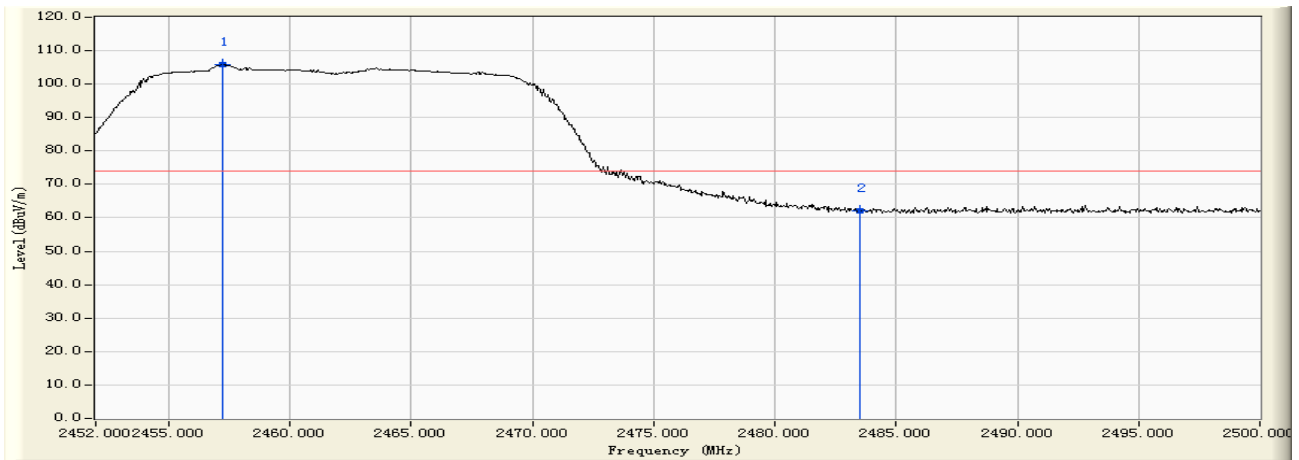
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2457.184	31.223	75.617	106.840	N/A	N/A	PEAK
2		2483.500	31.212	30.481	61.693	-12.277	73.970	PEAK

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/14 - 23:47
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 2: Transmit at channel 2462MHz by 802.11g



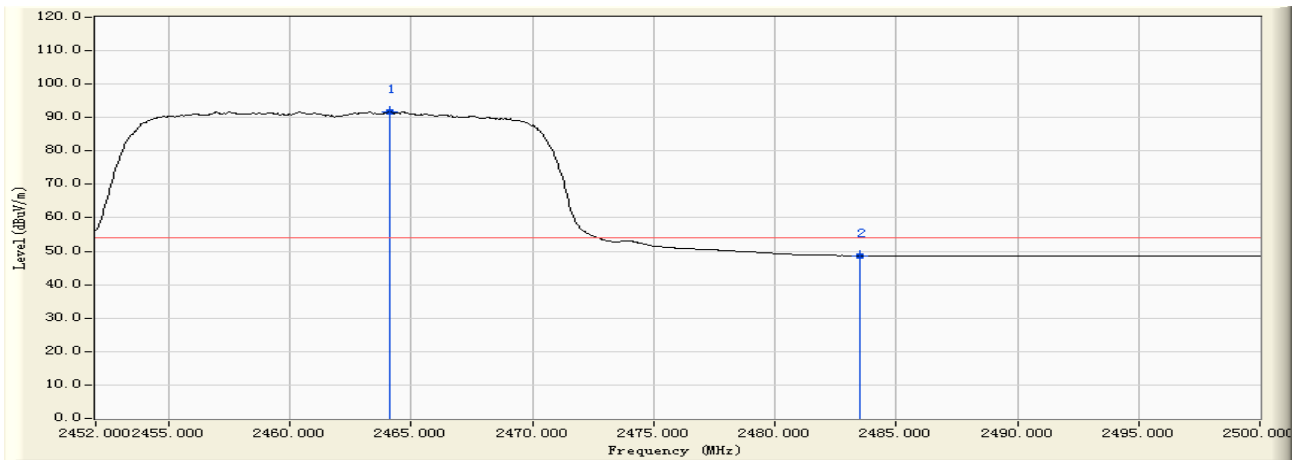
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2457.664	31.224	61.403	92.627	N/A	N/A	AVERAGE
2		2483.500	31.212	17.557	48.769	-5.201	53.970	AVERAGE

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/14 - 23:52
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 2: Transmit at channel 2462MHz by 802.11g



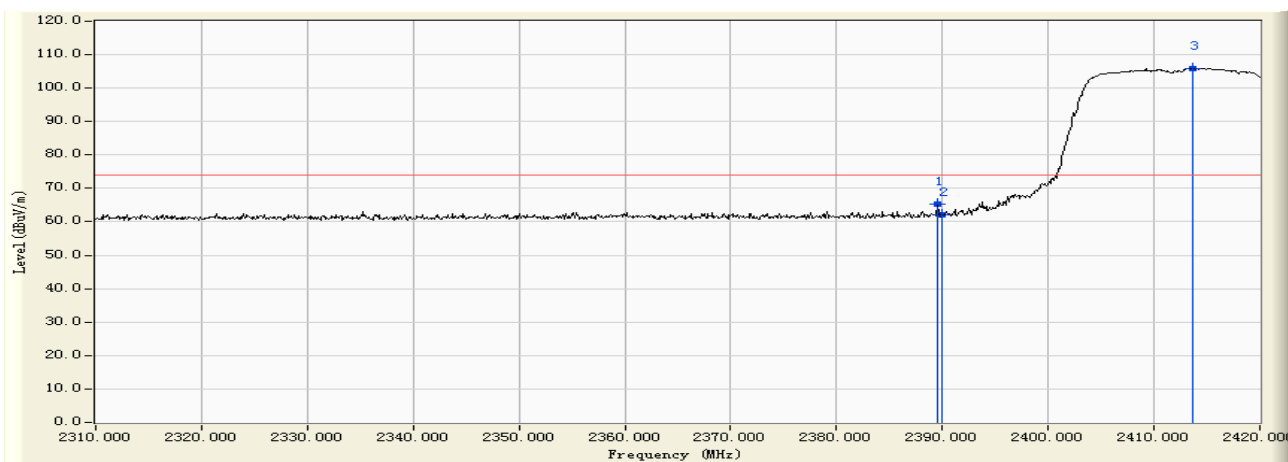
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2457.232	31.223	74.498	105.721	N/A	N/A	PEAK
2		2483.500	31.212	30.915	62.127	-11.843	73.970	PEAK

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/14 - 23:52
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 2: Transmit at channel 2462MHz by 802.11g



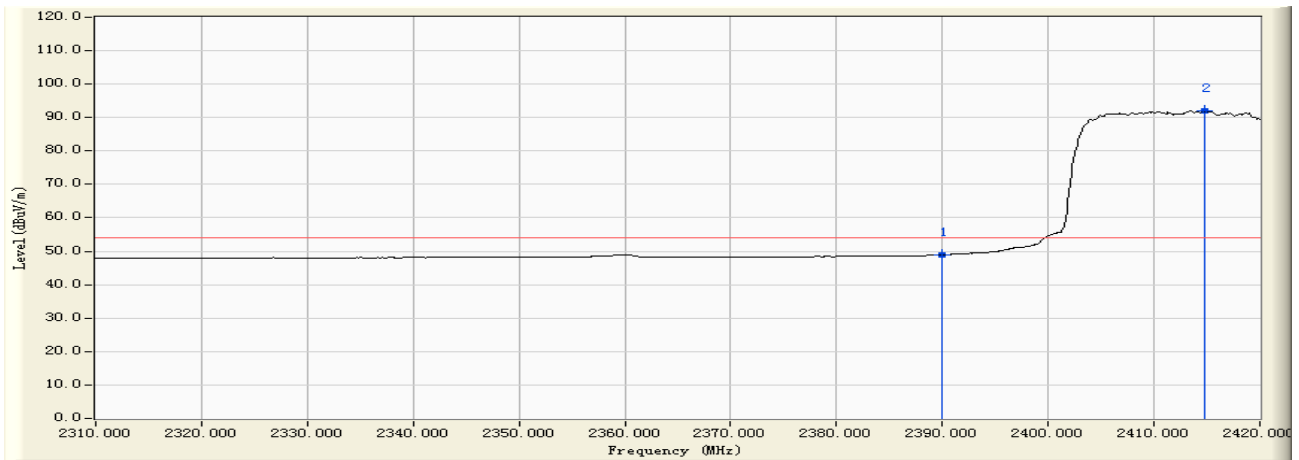
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.144	31.224	60.492	91.716	N/A	N/A	AVERAGE
2		2483.500	31.212	17.473	48.685	-5.285	53.970	AVERAGE

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/14 - 23:56
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 3: Transmit at channel 2412MHz by 802.11n(20MHz)



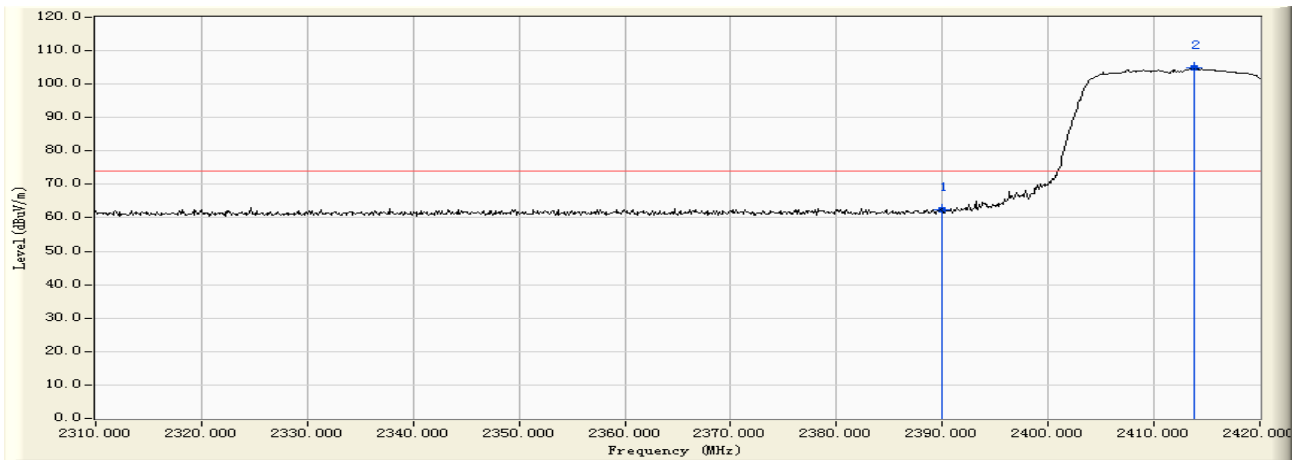
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2389.530	31.185	34.184	65.369	-8.601	73.970	PEAK
2	2390.000	31.184	30.778	61.962	-12.008	73.970	PEAK
3	* 2413.620	31.191	74.731	105.923	N/A	N/A	PEAK

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/14 - 23:56
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 3: Transmit at channel 2412MHz by 802.11n(20MHz)



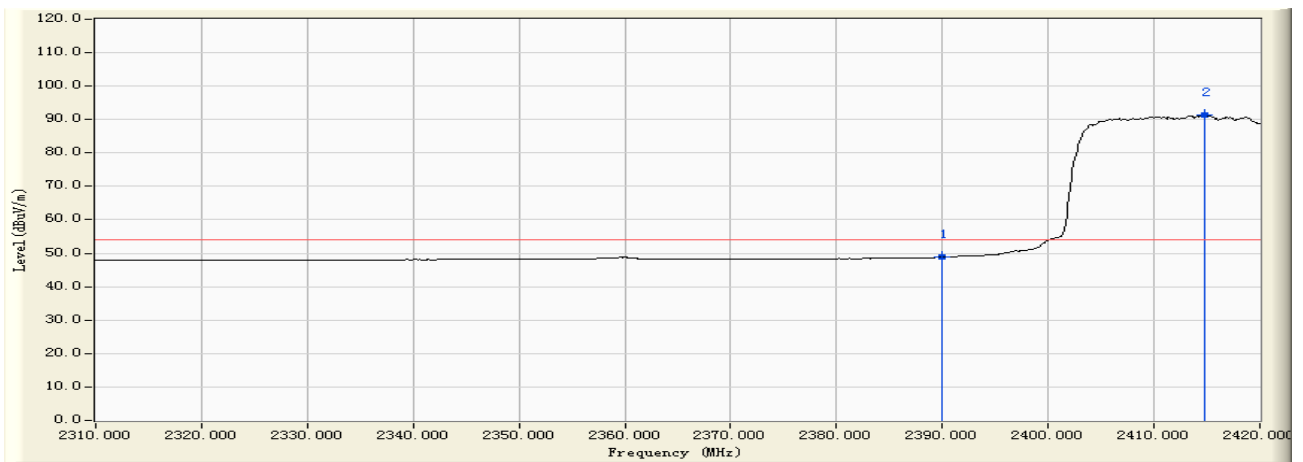
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2390.000	31.184	17.772	48.956	-5.014	53.970	AVERAGE
2	* 2414.720	31.193	60.831	92.024	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/14 - 23:58
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 3: Transmit at channel 2412MHz by 802.11n(20MHz)



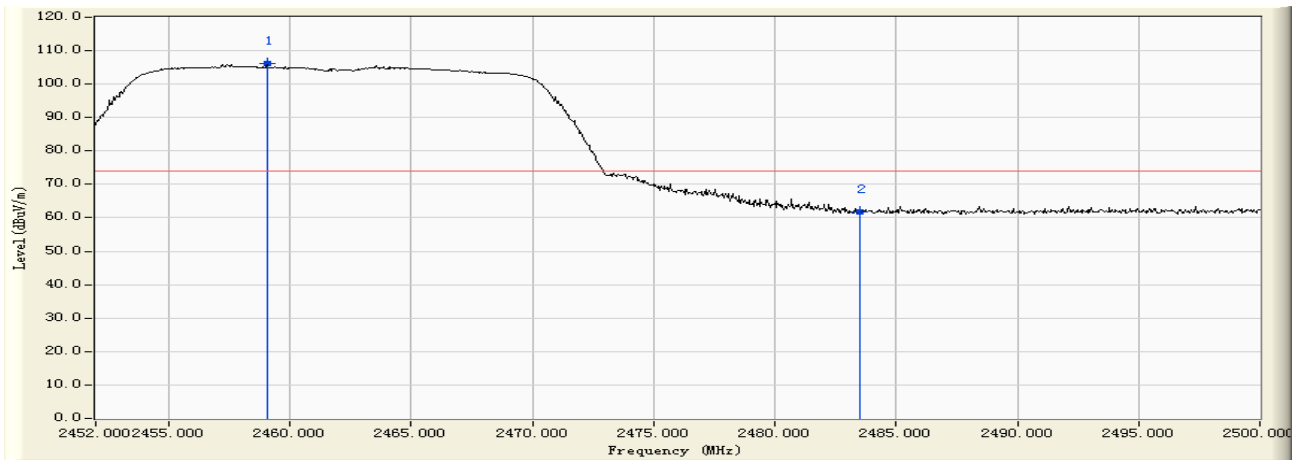
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2390.000	31.184	31.286	62.470	-11.500	73.970	PEAK
2	* 2413.840	31.192	73.660	104.852	N/A	N/A	PEAK

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/14 - 23:59
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 3: Transmit at channel 2412MHz by 802.11n(20MHz)



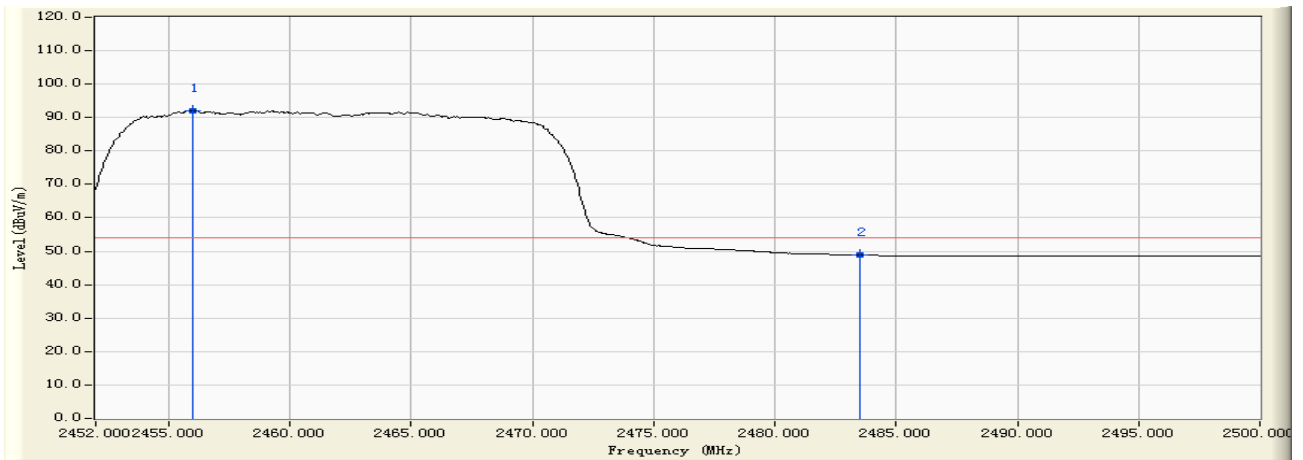
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	31.184	17.674	48.858	-5.112	53.970	AVERAGE
2	*	2414.720	31.193	60.161	91.354	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/15 - 00:02
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 3: Transmit at channel 2462MHz by 802.11n(20MHz)



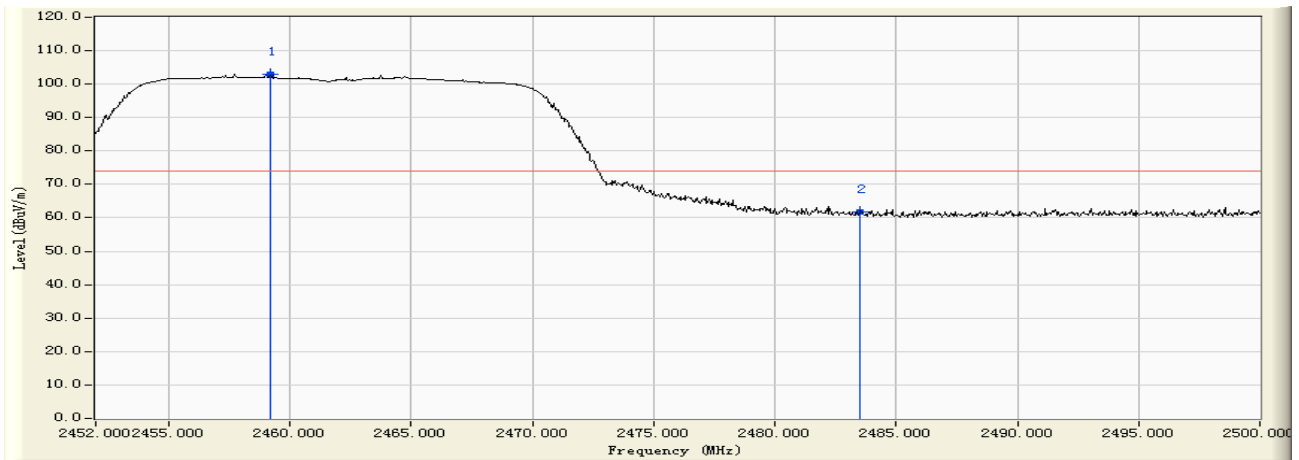
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2459.056	31.224	75.027	106.251	N/A	N/A	PEAK
2		2483.500	31.212	30.517	61.729	-12.241	73.970	PEAK

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/15 - 00:02
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 3: Transmit at channel 2462MHz by 802.11n(20MHz)



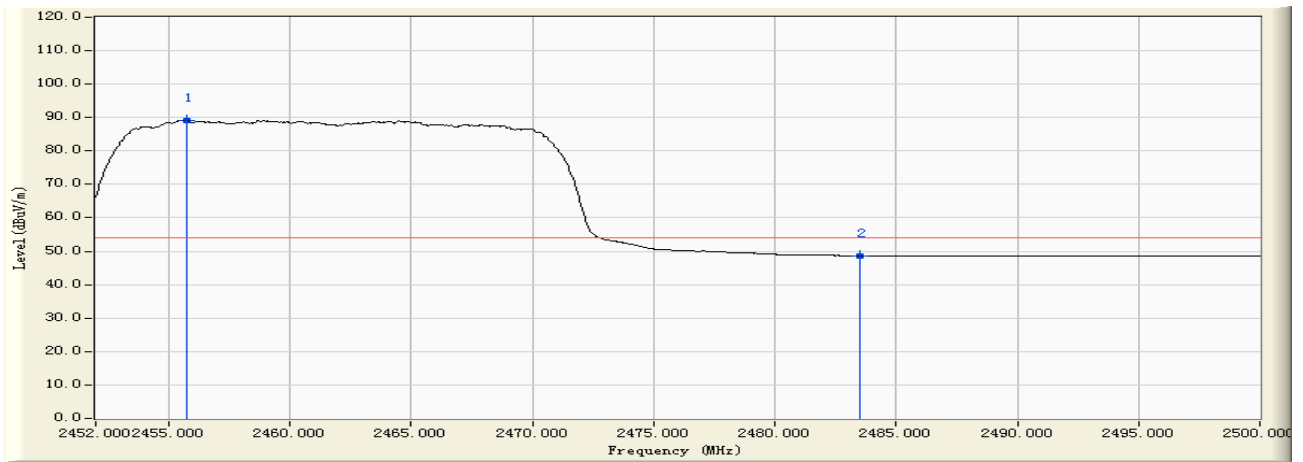
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2455.984	31.223	60.922	92.145	N/A	N/A	AVERAGE
2		2483.500	31.212	17.612	48.824	-5.146	53.970	AVERAGE

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/15 - 00:06
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 3: Transmit at channel 2462MHz by 802.11n(20MHz)



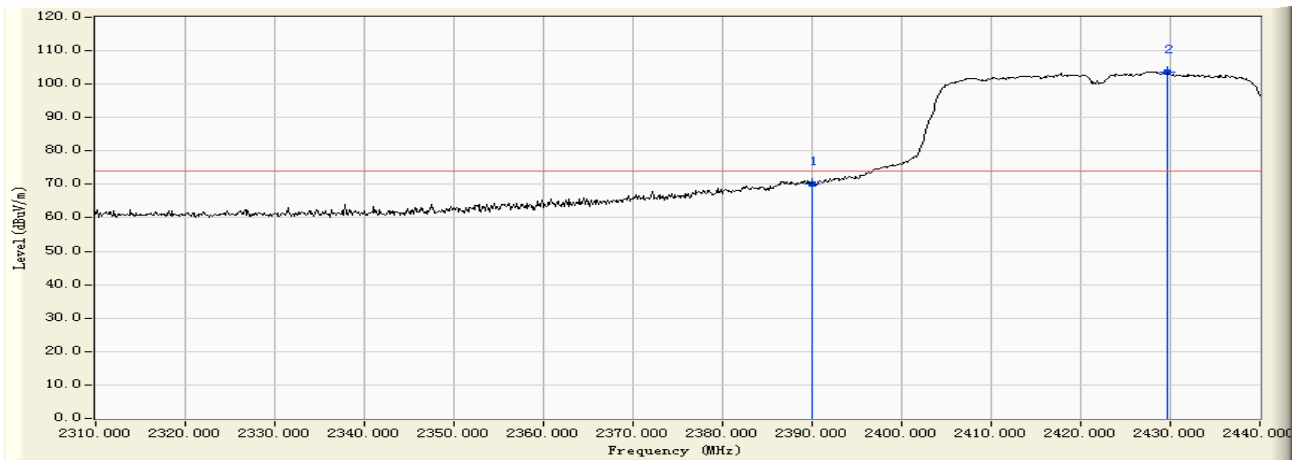
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2459.200	31.224	71.826	103.050	N/A	N/A	PEAK
2		2483.500	31.212	30.439	61.651	-12.319	73.970	PEAK

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/15 - 00:07
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 3: Transmit at channel 2462MHz by 802.11n(20MHz)



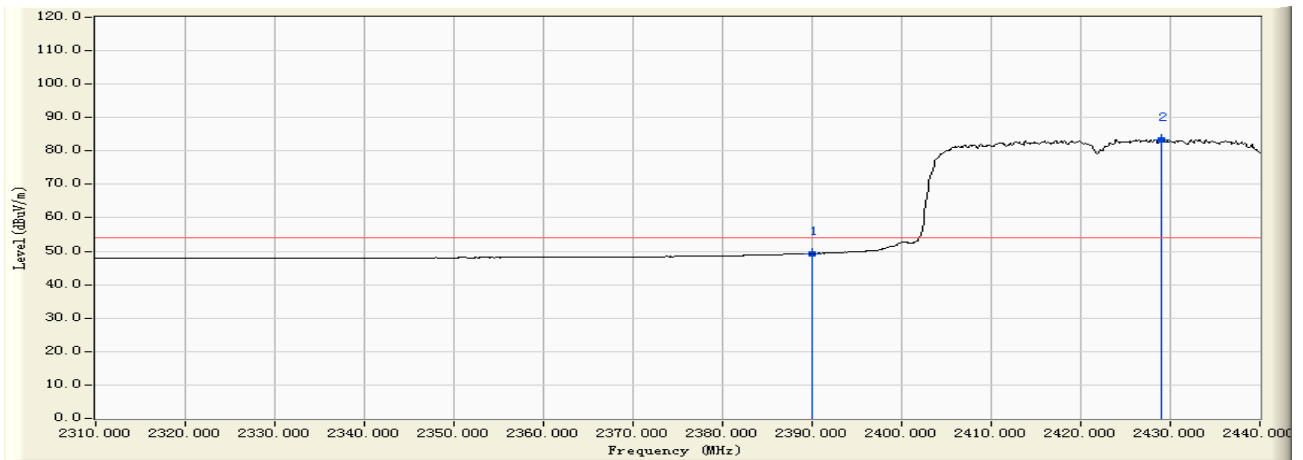
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2455.744	31.223	57.942	89.165	N/A	N/A	AVERAGE
2		2483.500	31.212	17.452	48.664	-5.306	53.970	AVERAGE

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/15 - 00:09
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 4: Transmit at channel 2422MHz by 802.11n(40MHz)



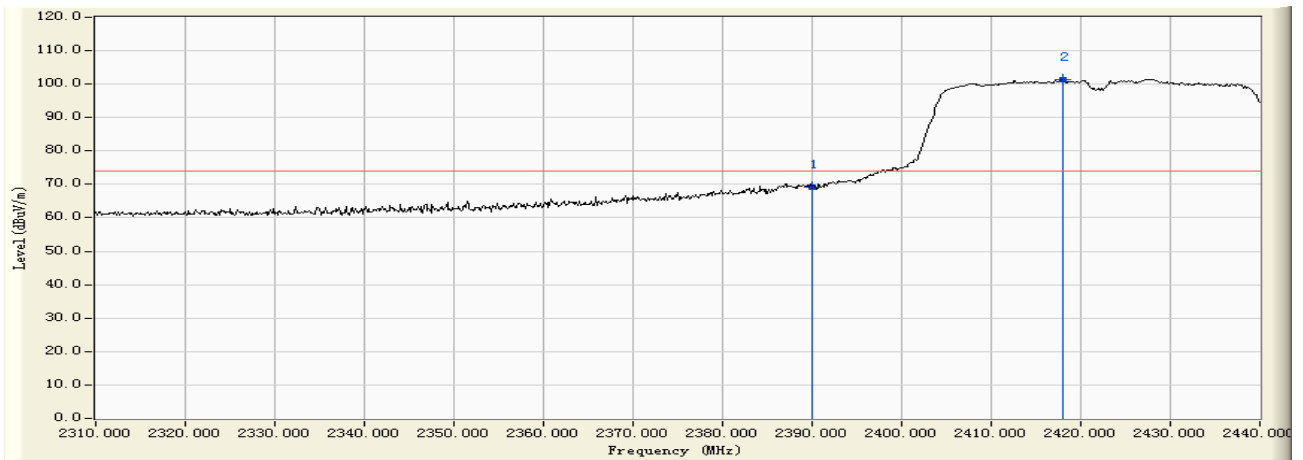
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2390.000	31.184	39.035	70.219	-3.751	73.970	PEAK
2	* 2429.600	31.205	72.421	103.626	N/A	N/A	PEAK

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/15 - 00:10
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 4: Transmit at channel 2422MHz by 802.11n(40MHz)



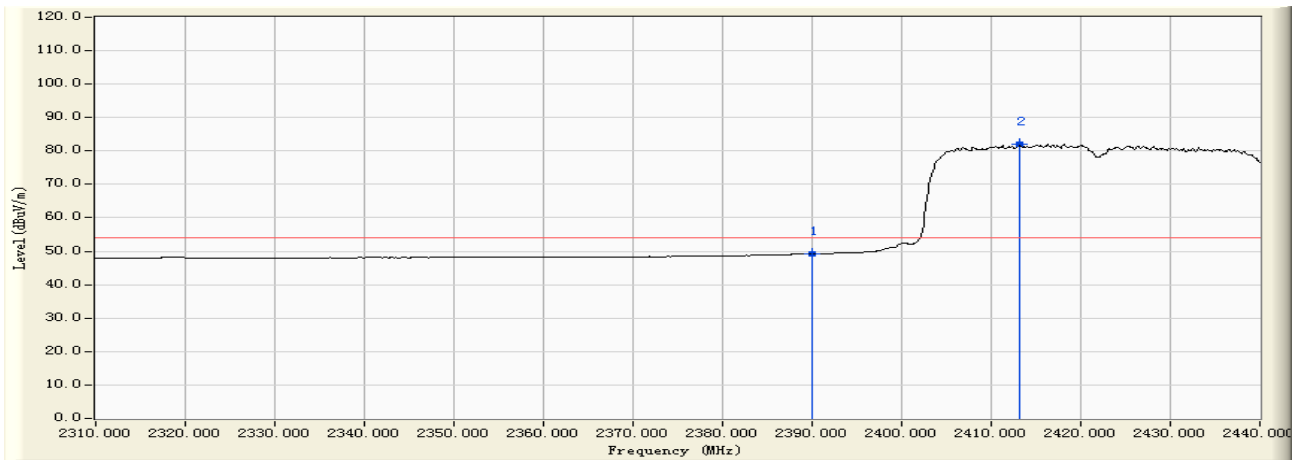
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2390.000	31.184	18.134	49.318	-4.652	53.970	AVERAGE
2	* 2429.080	31.205	52.266	83.471	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/15 - 00:12
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 4: Transmit at channel 2422MHz by 802.11n(40MHz)



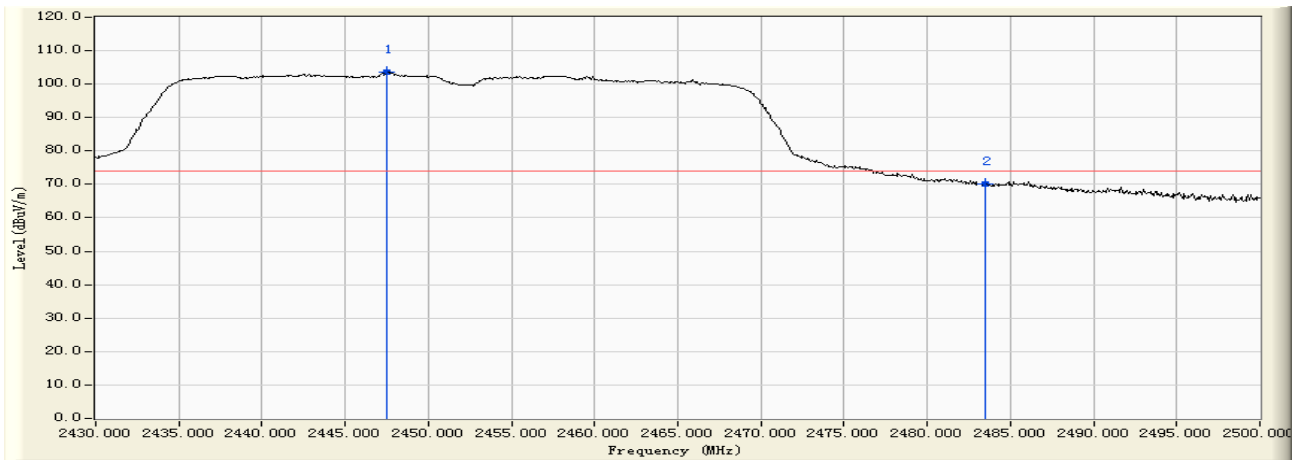
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2390.000	31.184	38.020	69.204	-4.766	73.970	PEAK
2	* 2418.030	31.196	70.179	101.374	N/A	N/A	PEAK

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/15 - 00:12
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 4: Transmit at channel 2422MHz by 802.11n(40MHz)



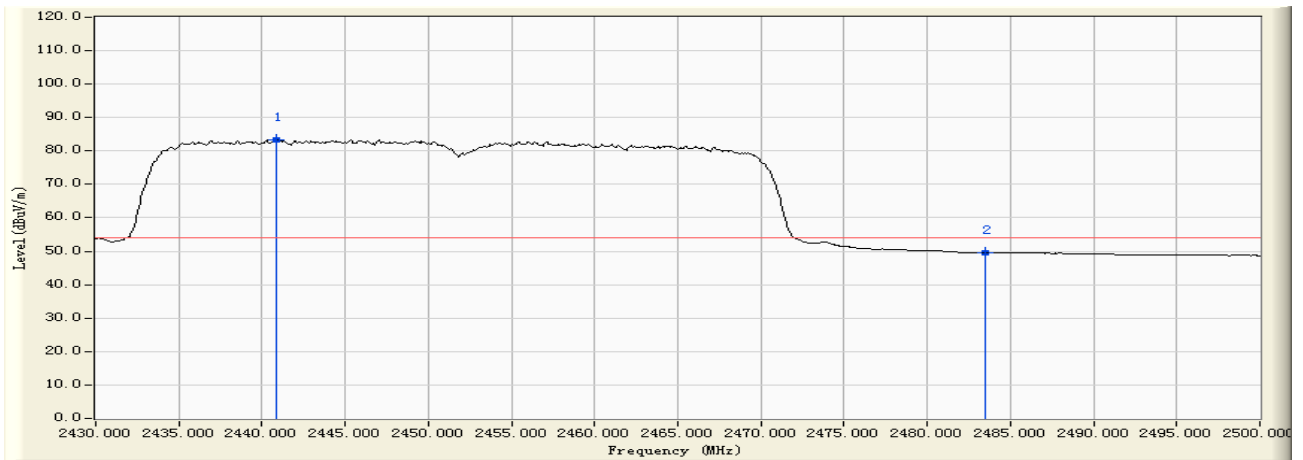
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2390.000	31.184	18.023	49.207	-4.763	53.970	AVERAGE
2	* 2413.090	31.192	50.738	81.929	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/15 - 00:17
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 4: Transmit at channel 2452MHz by 802.11n(40MHz)



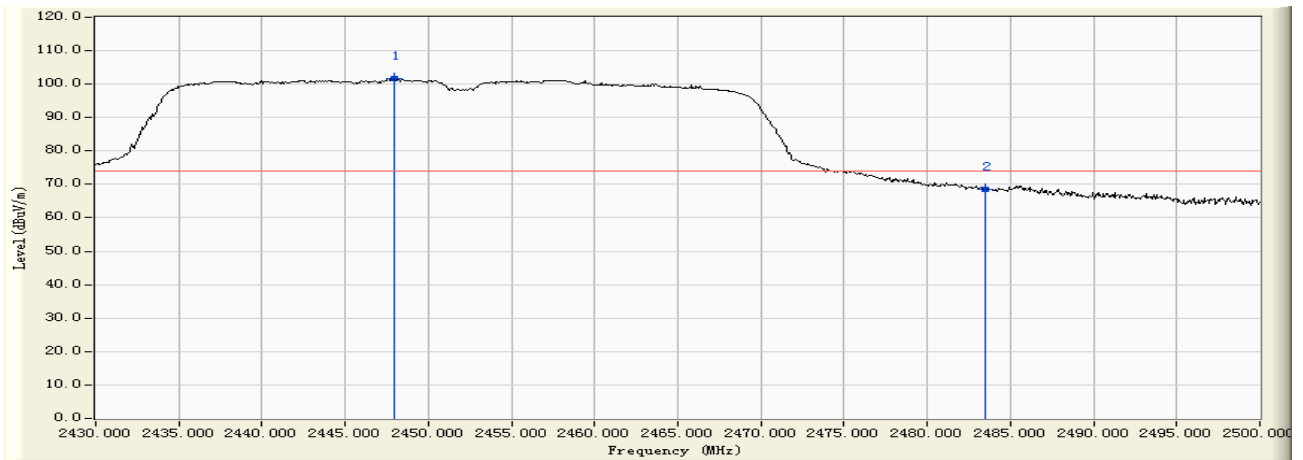
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2447.500	31.219	72.378	103.598	N/A	N/A	PEAK
2		2483.500	31.212	38.847	70.059	-3.911	73.970	PEAK

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/15 - 00:17
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - HORIZONTAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 4: Transmit at channel 2452MHz by 802.11n(40MHz)



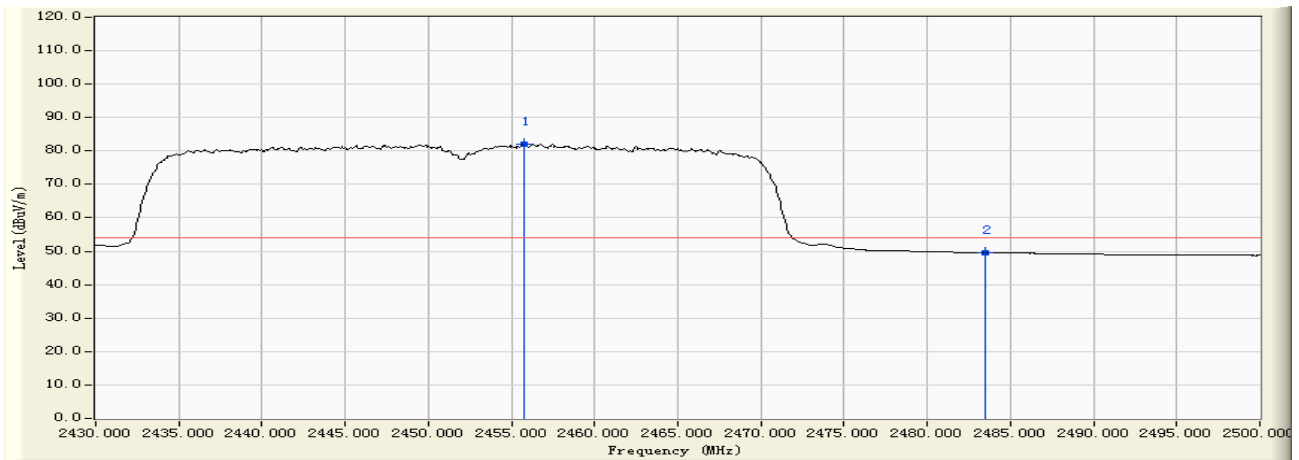
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2440.850	31.215	52.178	83.393	N/A	N/A	AVERAGE
2		2483.500	31.212	18.433	49.645	-4.325	53.970	AVERAGE

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/15 - 00:20
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 4: Transmit at channel 2452MHz by 802.11n(40MHz)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2447.920	31.220	70.517	101.737	N/A	N/A	PEAK
2		2483.500	31.212	37.395	68.607	-5.363	73.970	PEAK

Engineer : Jame	
Site : AC 2 (3m Semi-Anechoic Chamber)	Time : 2009/10/15 - 00:20
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
Probe : 9120D_499(1-18GHz) - VERTICAL	Power : AC 120V/60Hz
EUT : Eee PC(AW-NE762H)	Note : Mode 4: Transmit at channel 2452MHz by 802.11n(40MHz)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2455.760	31.223	50.882	82.105	N/A	N/A	AVERAGE
2		2483.500	31.212	18.291	49.503	-4.467	53.970	AVERAGE

7. Operation Frequency Range of 20dB Bandwidth

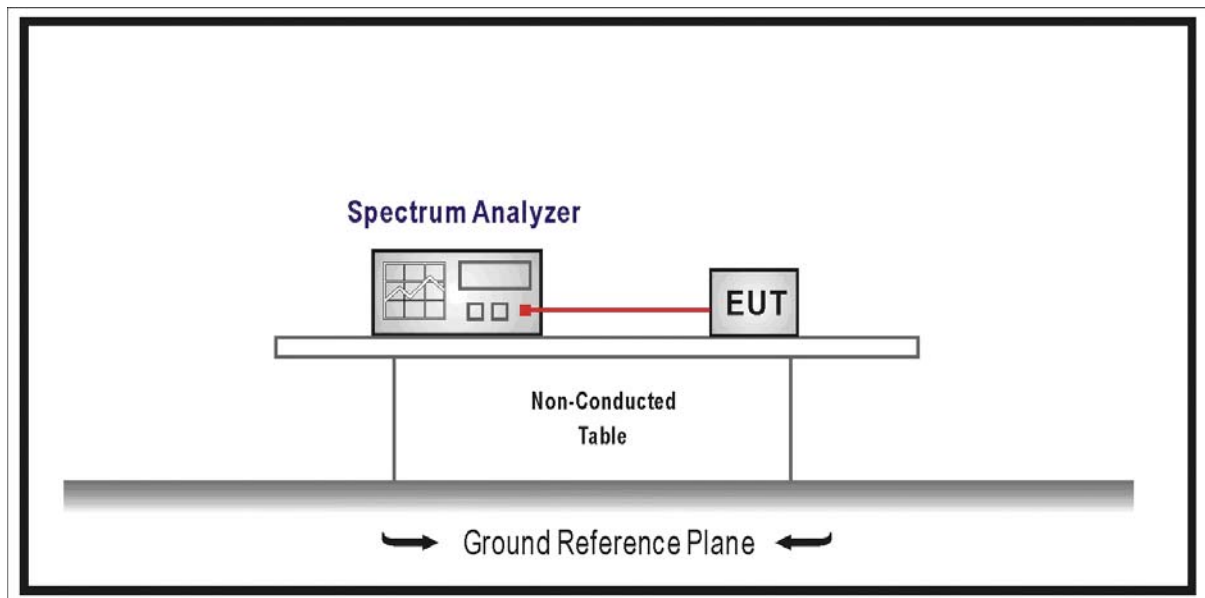
7.1. Test Equipment

Operation Frequency Range of 20dB Bandwidth / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2009/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2008/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2009/03/30

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.

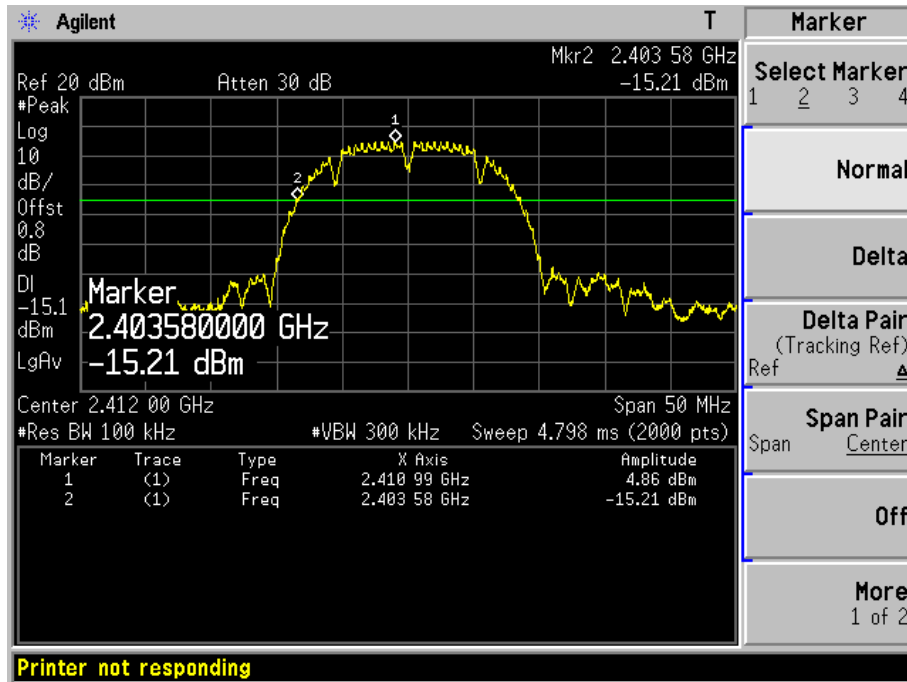
7.5. Uncertainty

The measurement uncertainty is defined as ± 1 kHz

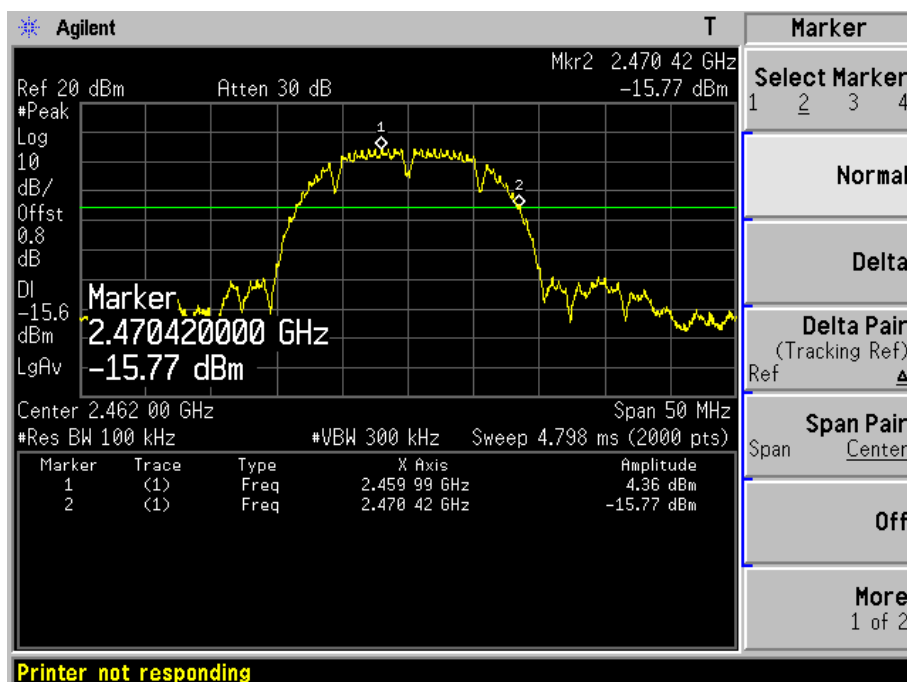
7.6. Test Result

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

Channel 01 (2412MHz)

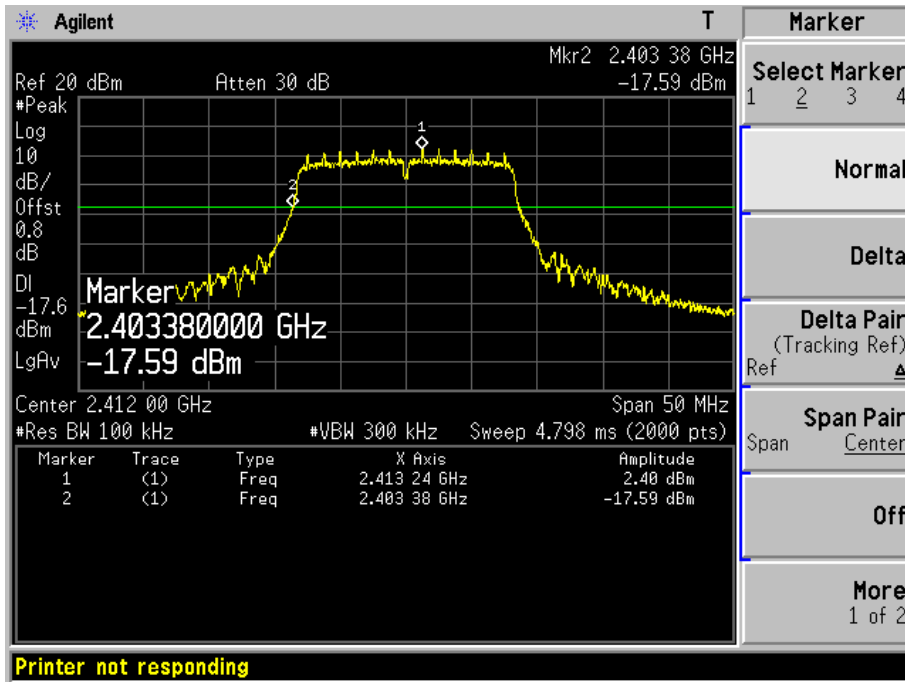


Channel 11 (2462MHz)

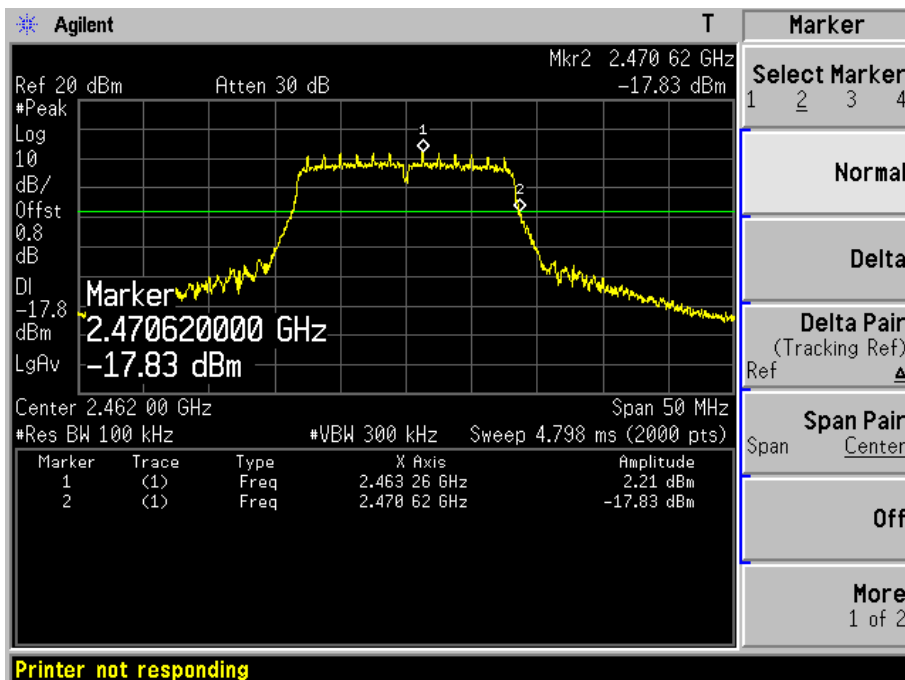


Product	: Eee PC
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: AC-6
Test Mode	: Mode 2: Transmit by 802.11g

Channel 01 (2412MHz)

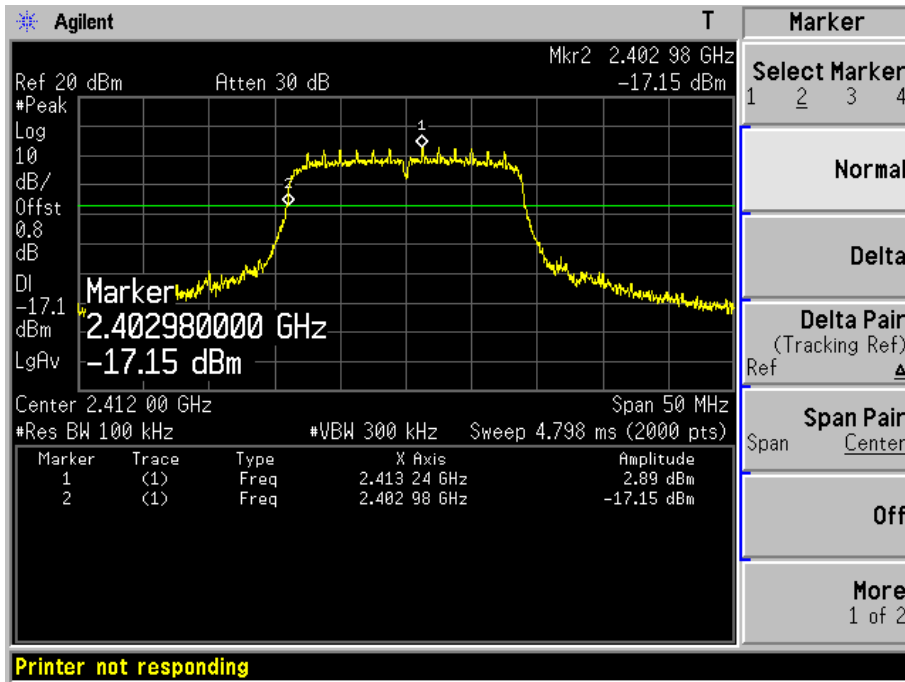


Channel 11 (2462MHz)

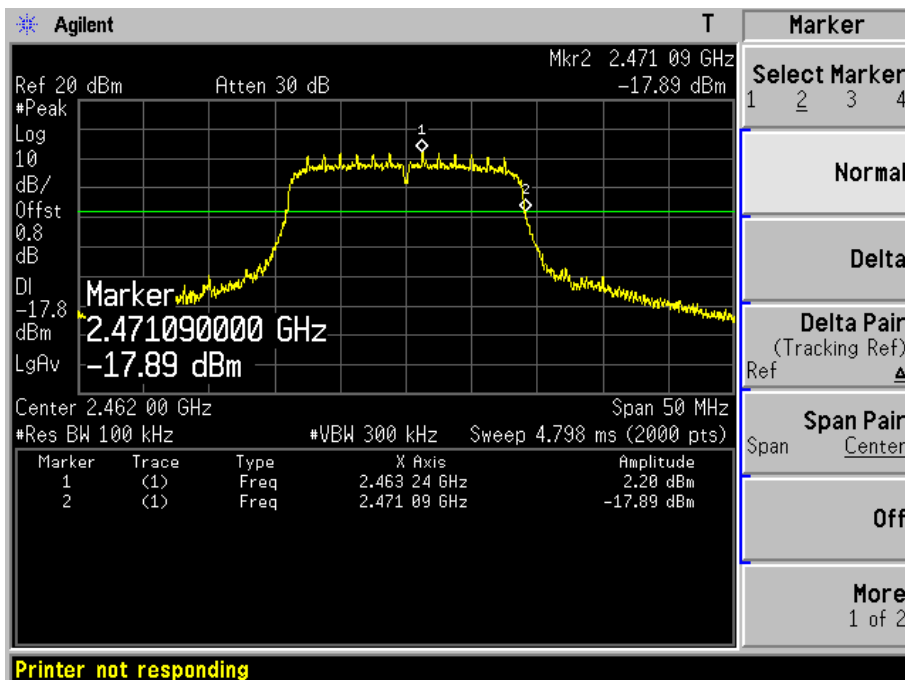


Product	: Eee PC
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: AC-6
Test Mode	: Mode 3: Transmit by 802.11n (20MHz)

Channel 01 (2412MHz)

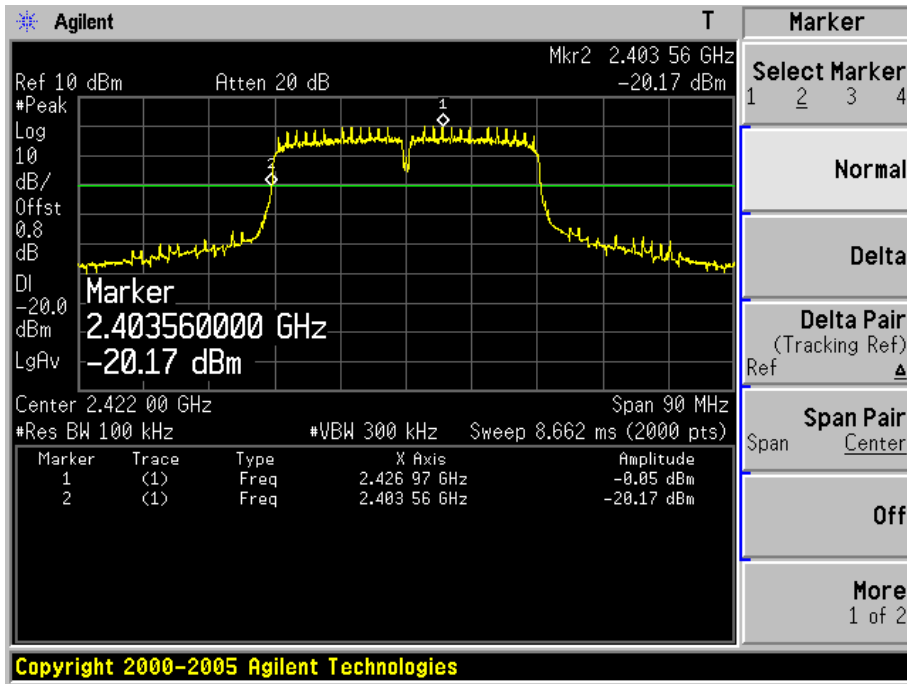


Channel 11 (2462MHz)

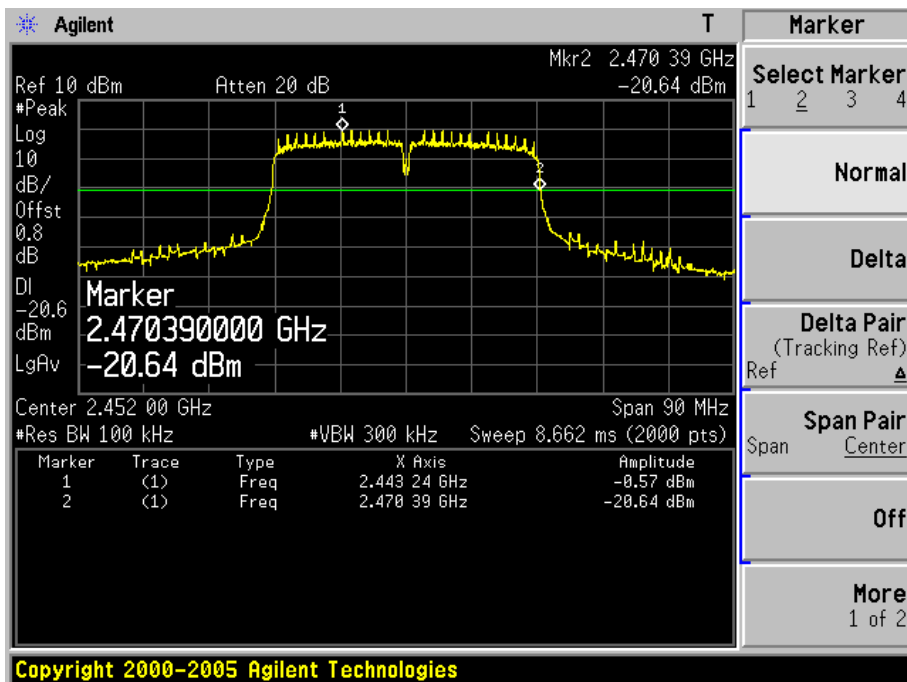


Product	: Eee PC
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: AC-6
Test Mode	: Mode 4: Transmit by 802.11n (40MHz)

Channel 03 (2422MHz)



Channel 09 (2452MHz)



8. Occupied Bandwidth

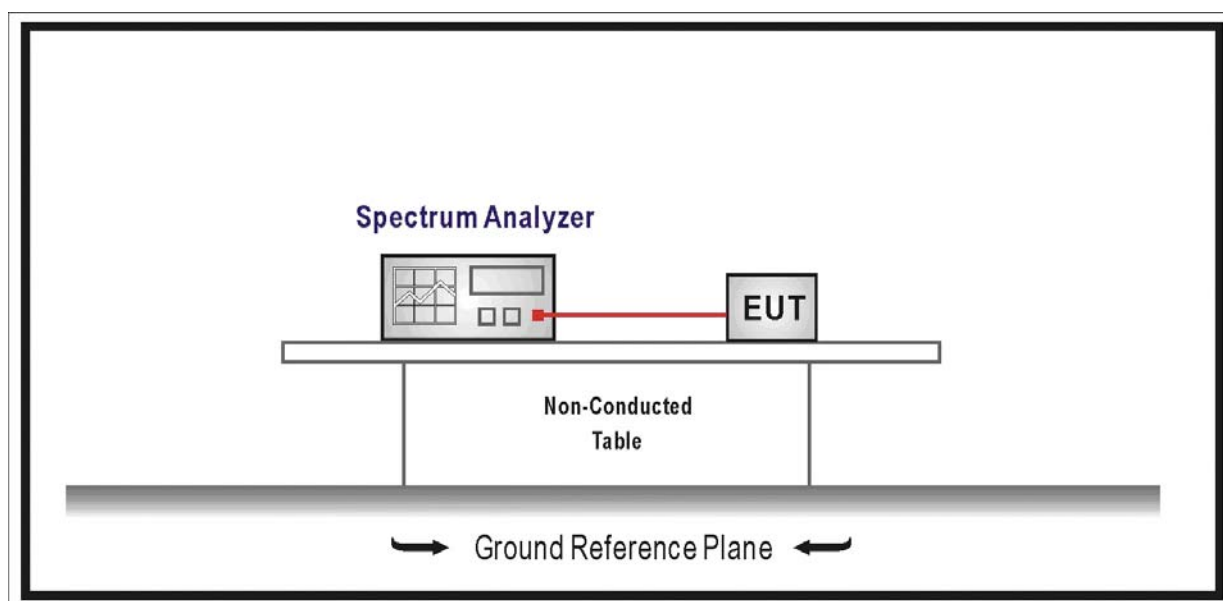
8.1. Test Equipment

Occupied Bandwidth / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2009/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2008/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2009/03/30

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

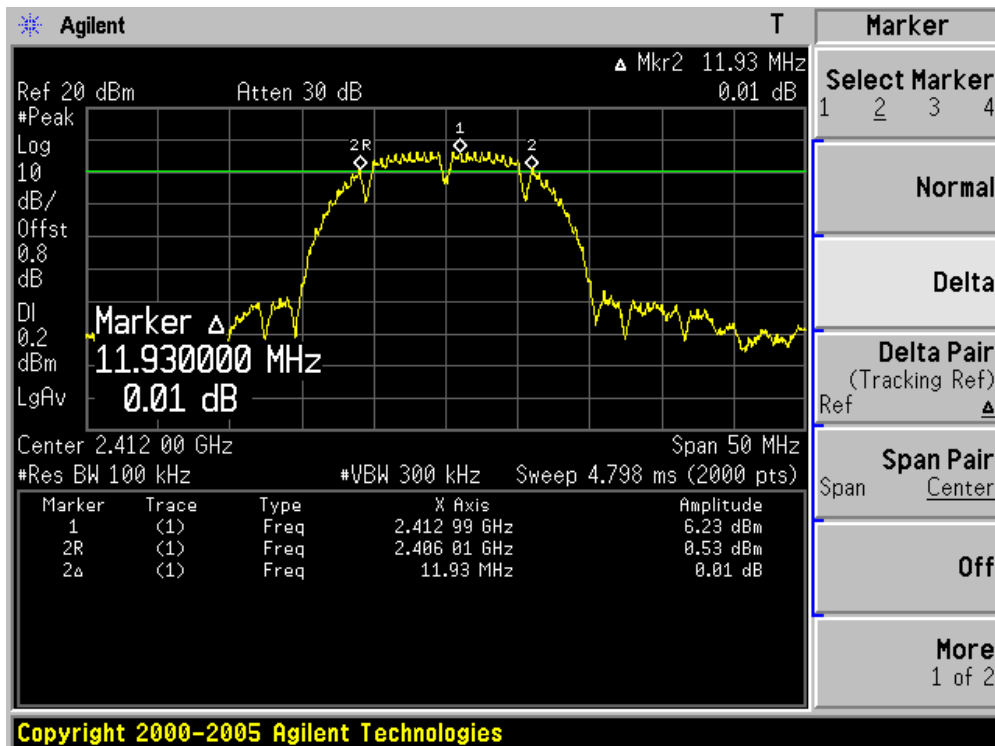
The measurement uncertainty is defined as ± 1 kHz

8.6. Test Result

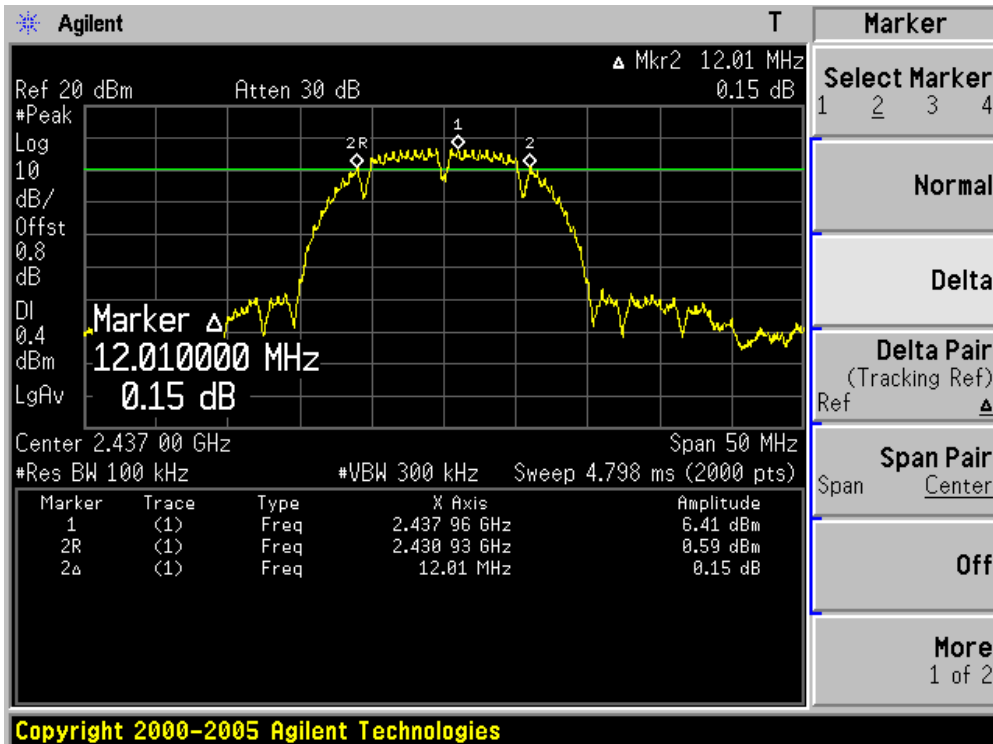
Product	:	Eee PC
Test Item	:	6dB Occupied Bandwidth
Test Site	:	AC-6
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	11930	500	Pass
06	2437	12010	500	Pass
11	2462	11910	500	Pass

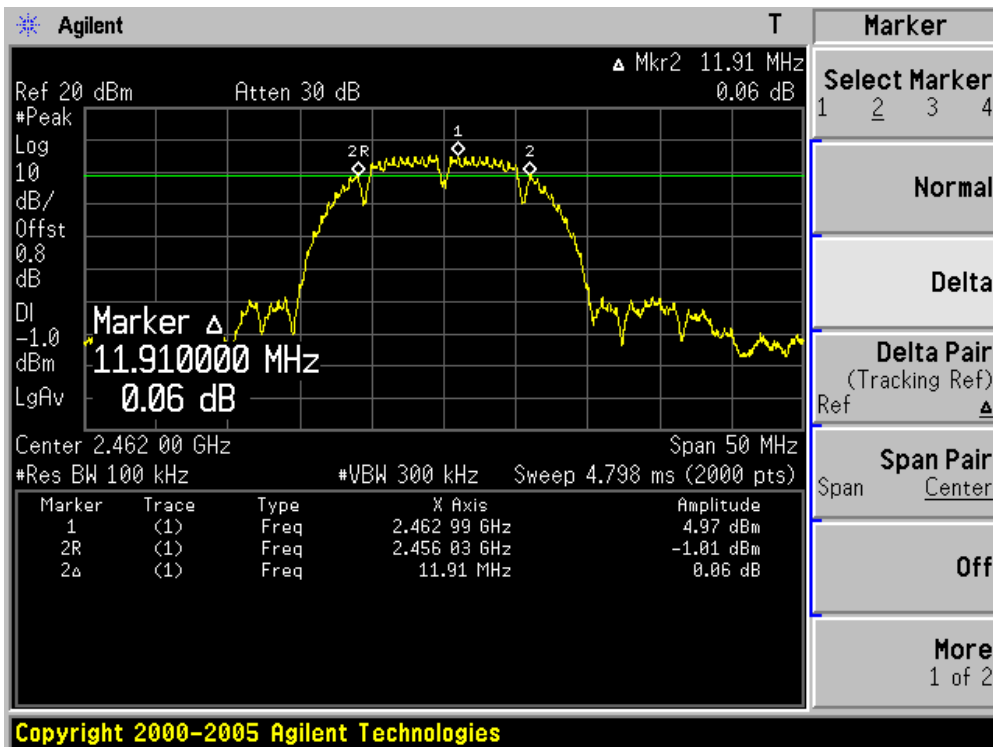
Channel 01 (2412MHz)



Channel 06 (2437MHz)



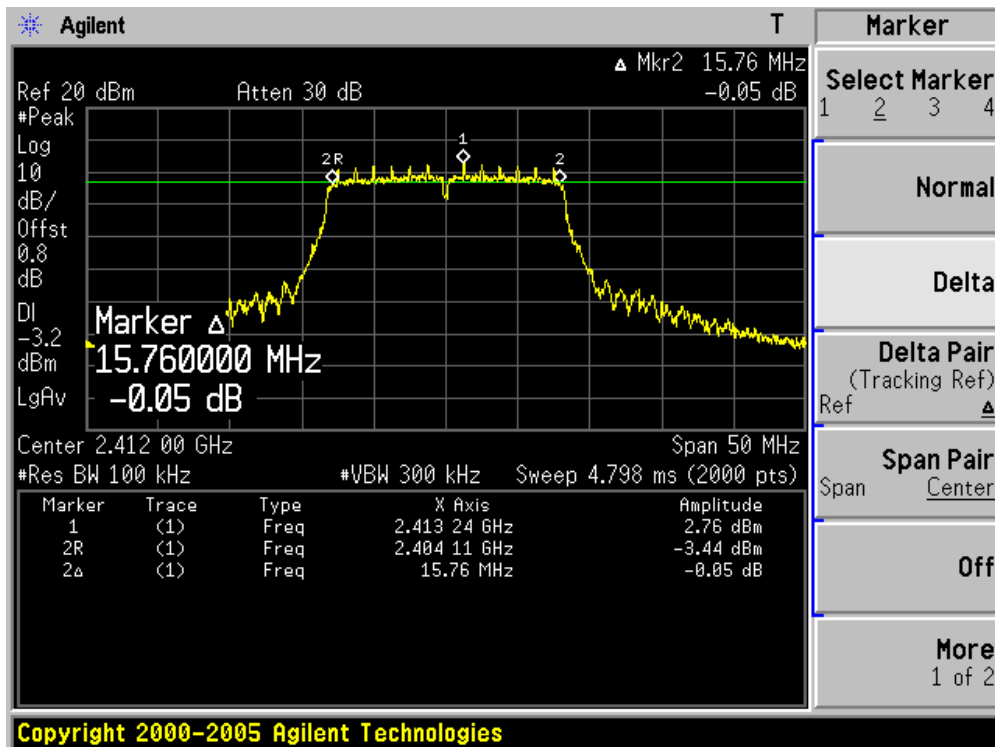
Channel 11 (2462MHz)



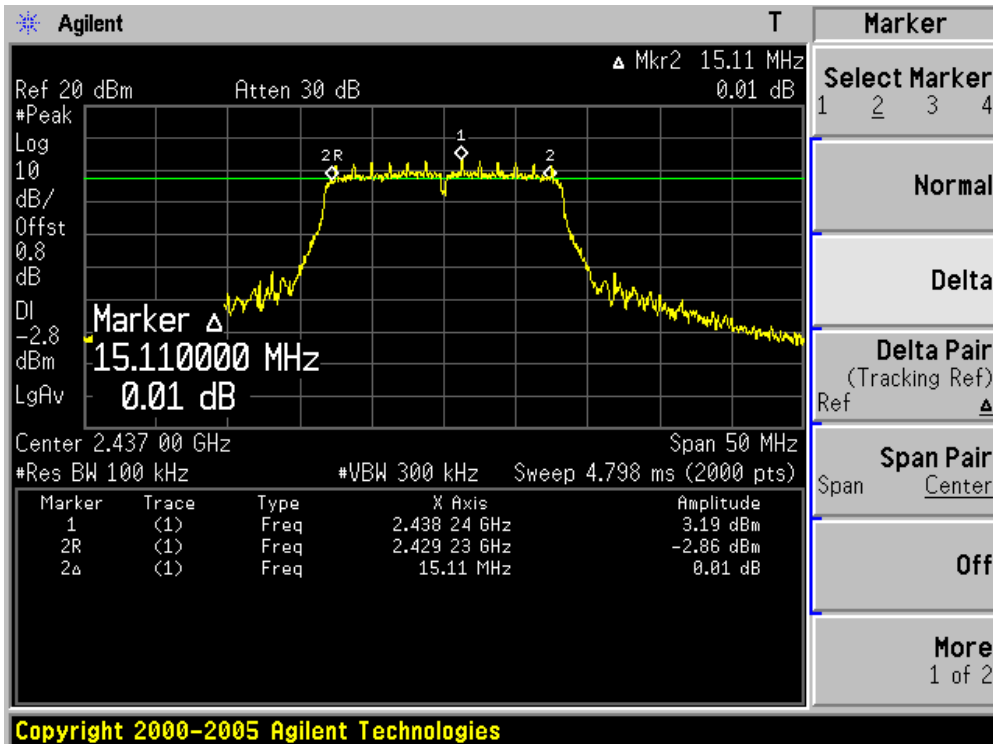
Product	: Eee PC
Test Item	: 6dB Occupied Bandwidth
Test Site	: AC-6
Test Mode	: Mode 2: Transmit by 802.11g

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	15760	500	Pass
06	2437	15110	500	Pass
11	2462	15510	500	Pass

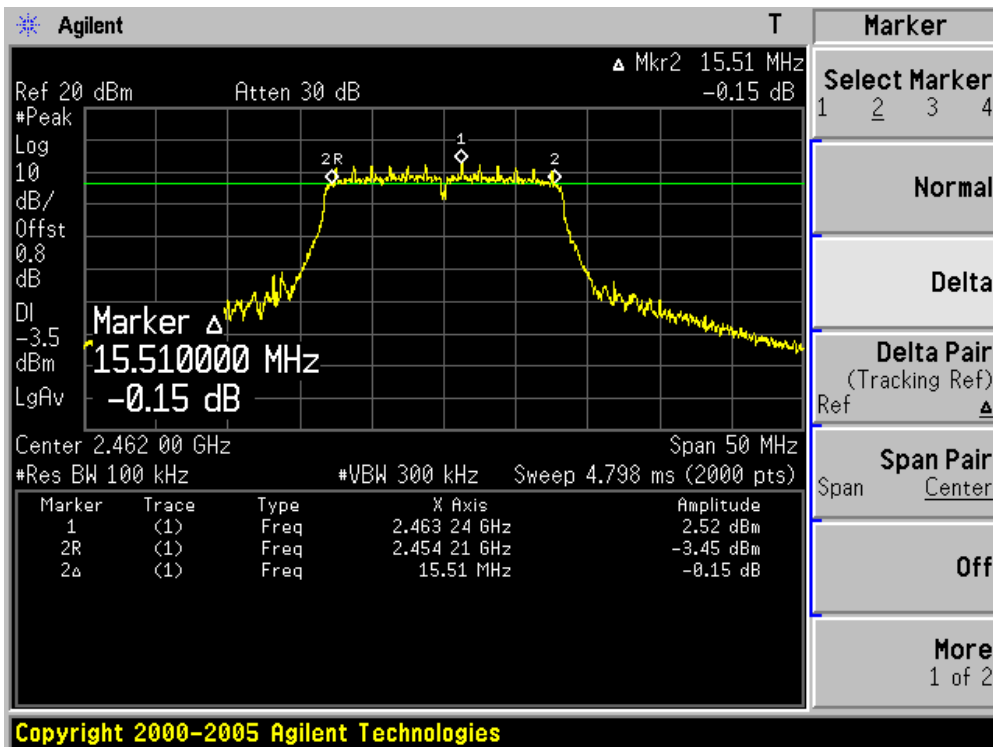
Channel 01 (2412MHz)



Channel 06 (2437MHz)



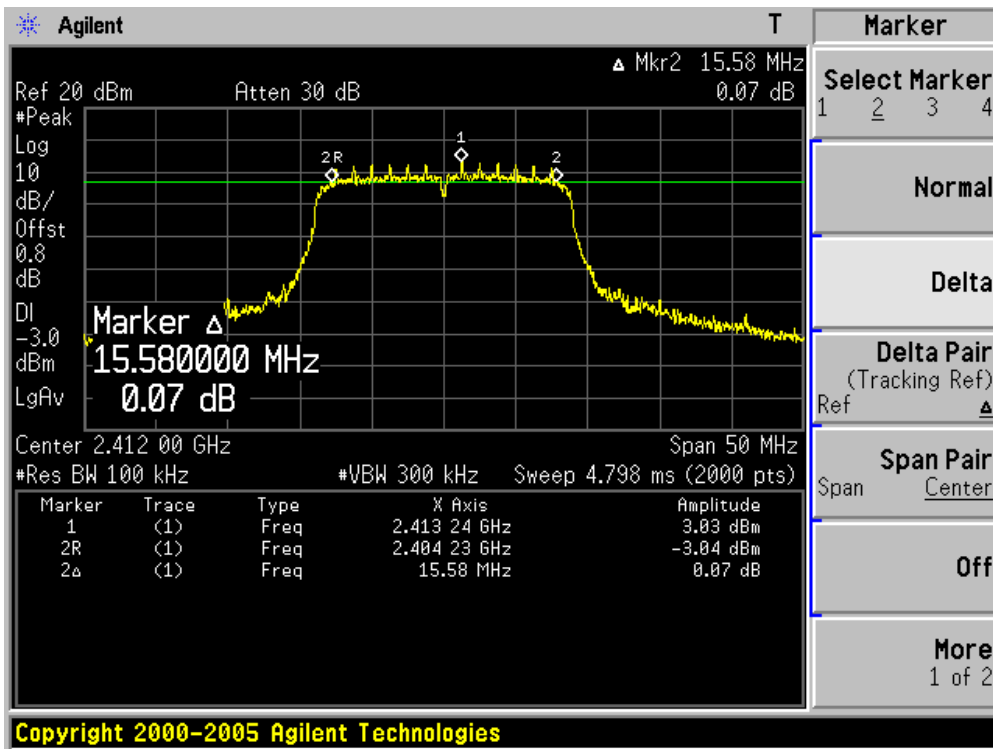
Channel 11 (2462MHz)



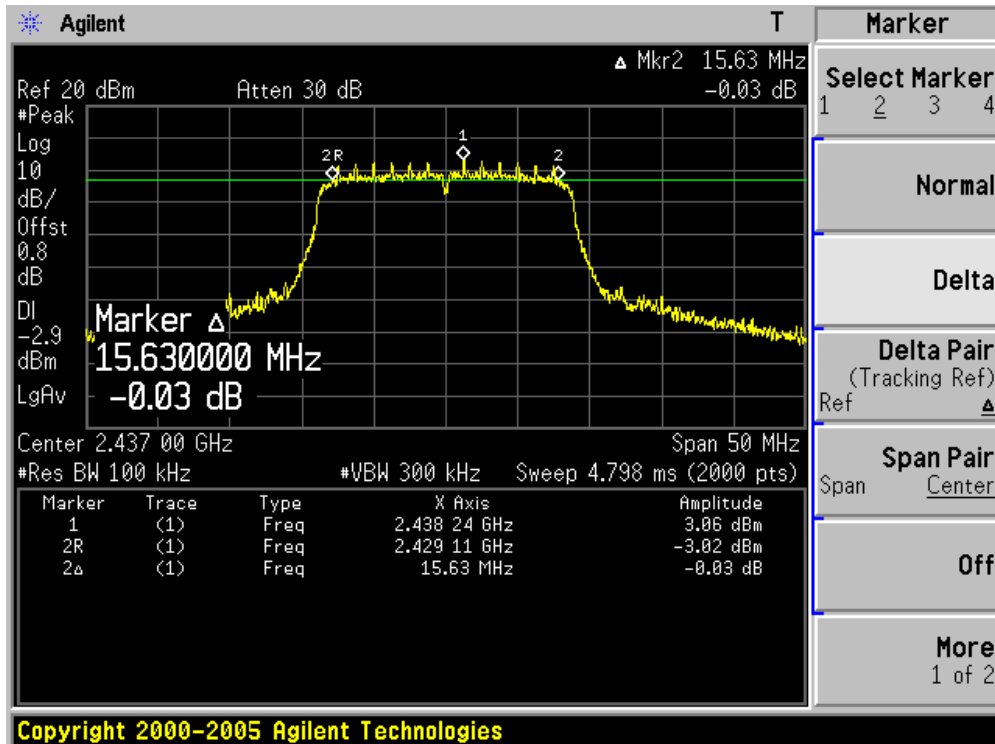
Product	: Eee PC
Test Item	: 6dB Occupied Bandwidth
Test Site	: AC-6
Test Mode	: Mode 3: Transmit by 802.11n (20MHz)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	15580	500	Pass
06	2437	15630	500	Pass
11	2462	15360	500	Pass

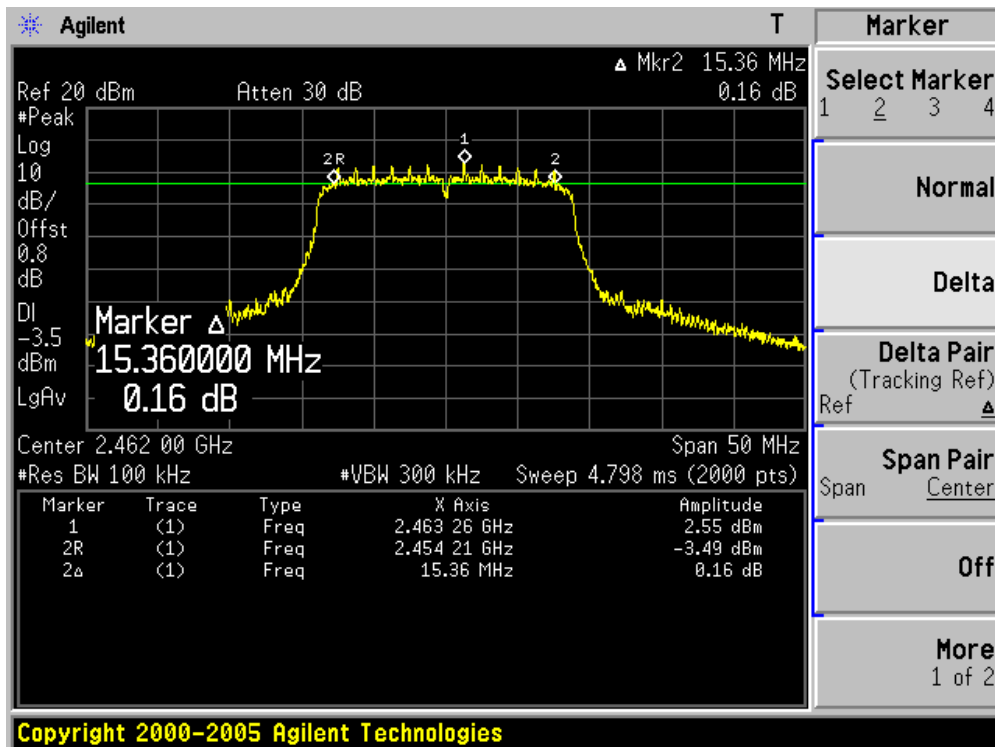
Channel 01 (2412MHz)



Channel 06 (2437MHz)



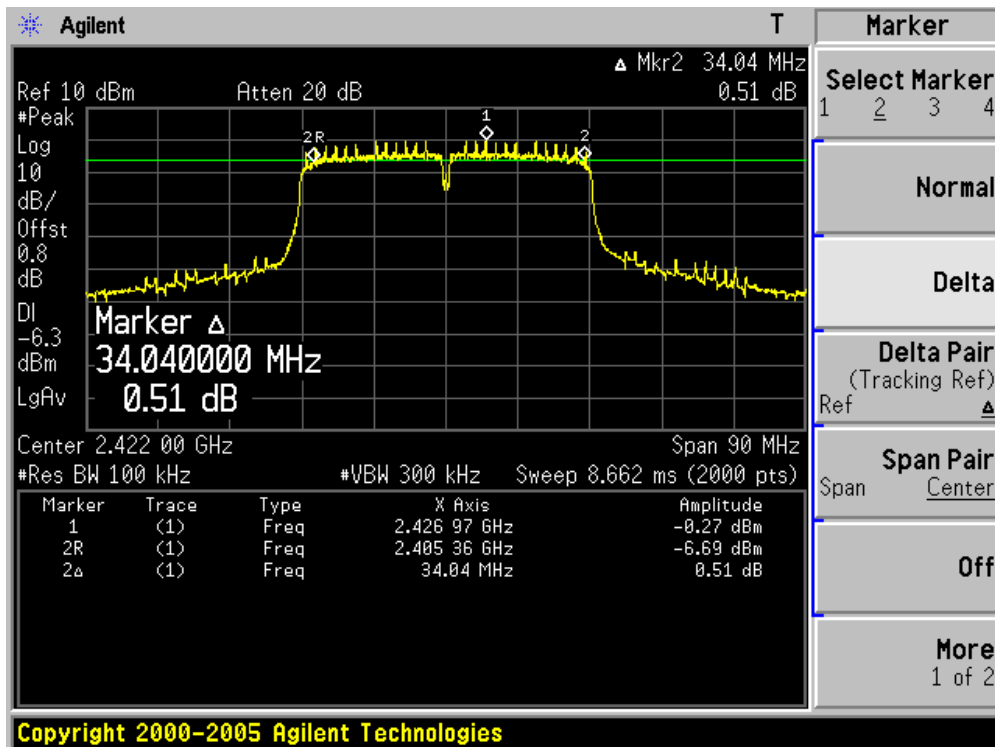
Channel 11 (2462MHz)



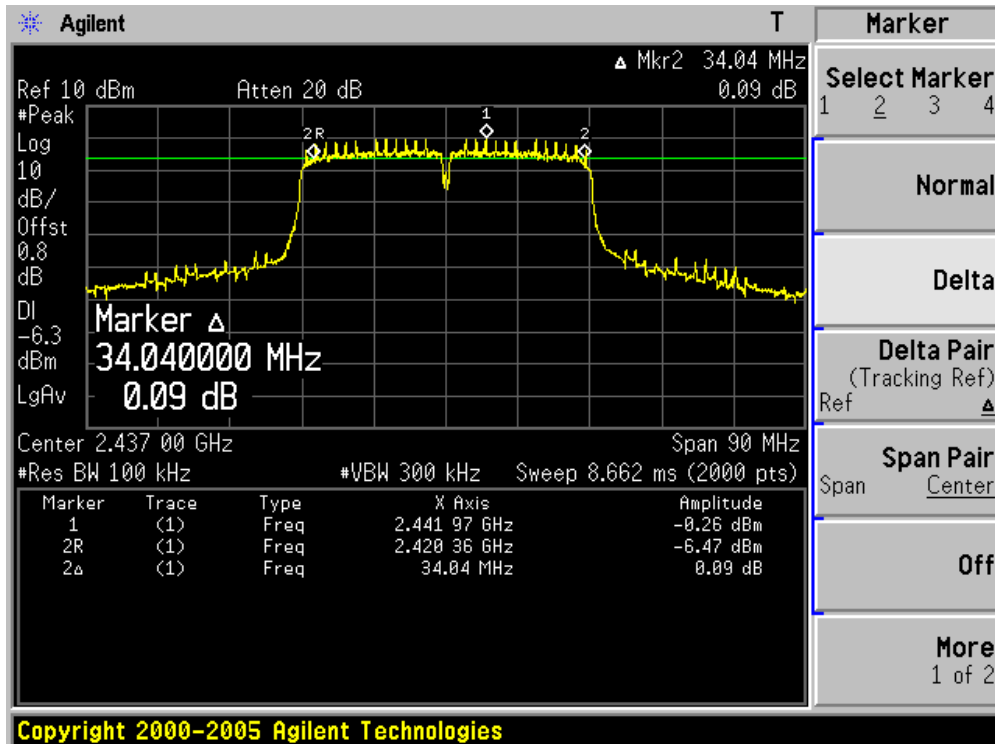
Product	: Eee PC
Test Item	: 6dB Occupied Bandwidth
Test Site	: AC-6
Test Mode	: Mode 4: Transmit by 802.11n (40MHz)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
03	2422	34040	500	Pass
06	2437	34040	500	Pass
09	2452	34800	500	Pass

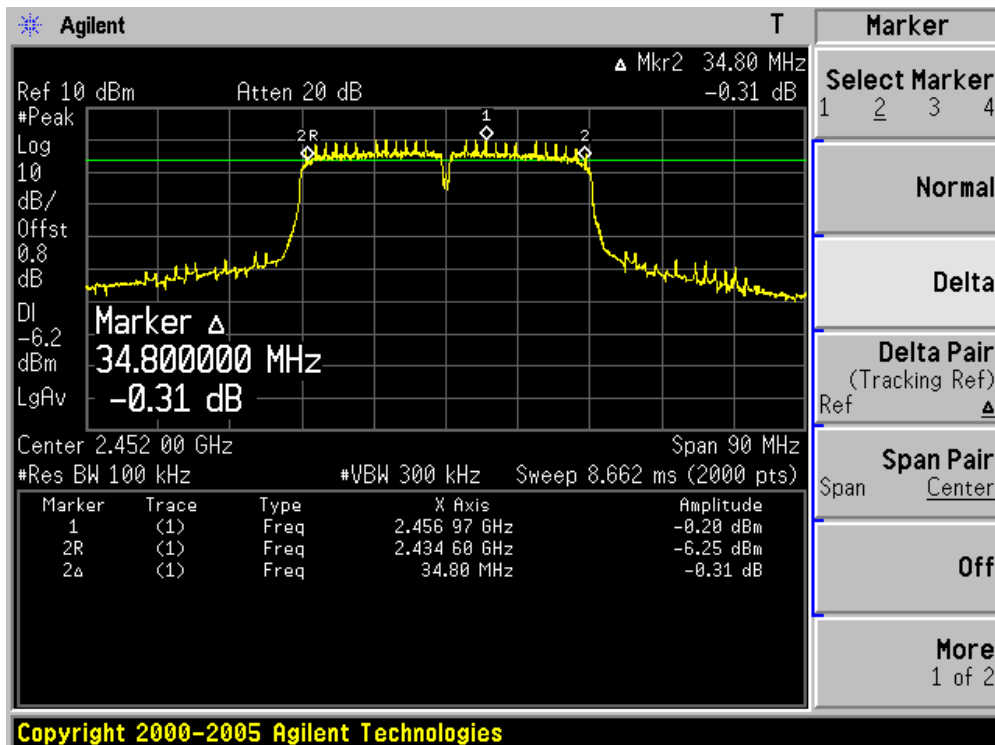
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



9. Power Output

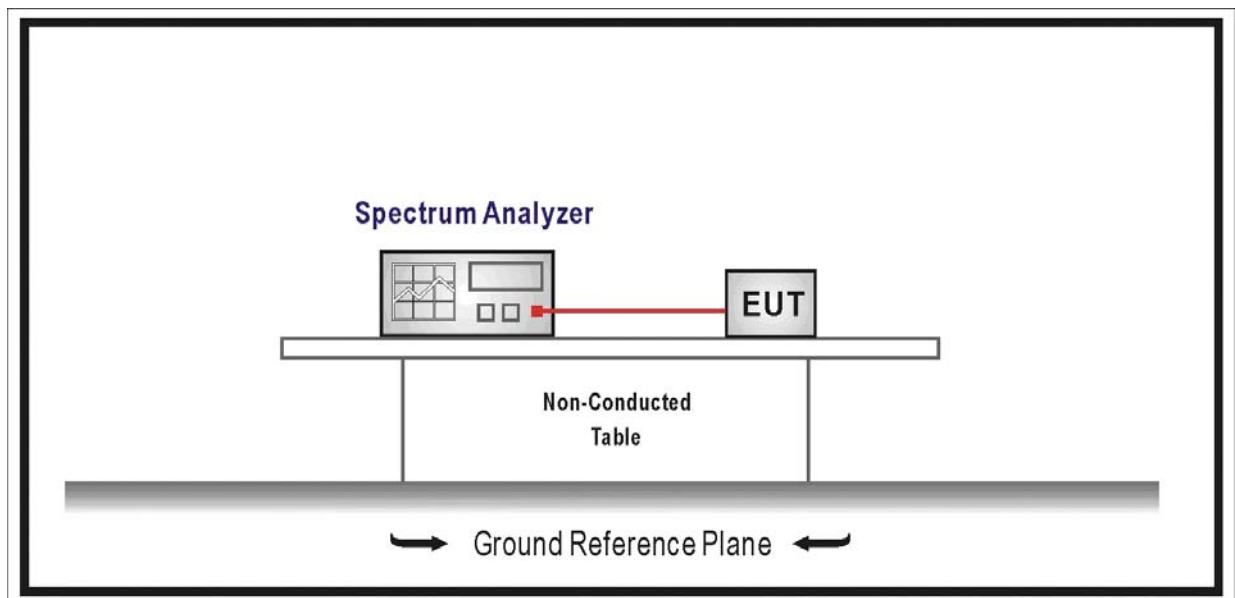
9.1. Test Equipment

Power Output / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Wideband Peak Power Meter	Anritsu	ML2495A	0905006	2009/02/12
Power Sensor	Anritsu	MA2411B	0846014	2009/01/12
Coaxial Cable	Huber+Suhner	AC4-RF	09	2008/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2009/03/09

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.

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

Product	:	Eee PC
Test Item	:	Power Output
Test Site	:	AC-6

Test Mode	Channel No.	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
802.11b	01	2412	17.63	30	Pass
	06	2437	16.83	30	Pass
	11	2462	15.93	30	Pass
802.11g	01	2412	21.33	30	Pass
	06	2437	20.83	30	Pass
	11	2462	20.10	30	Pass
802.11n(20M)	01	2412	21.44	30	Pass
	06	2437	20.75	30	Pass
	11	2462	20.06	30	Pass
802.11n(40M)	03	2422	21.55	30	Pass
	06	2437	21.07	30	Pass
	09	2452	20.39	30	Pass

10. Power Spectral Density

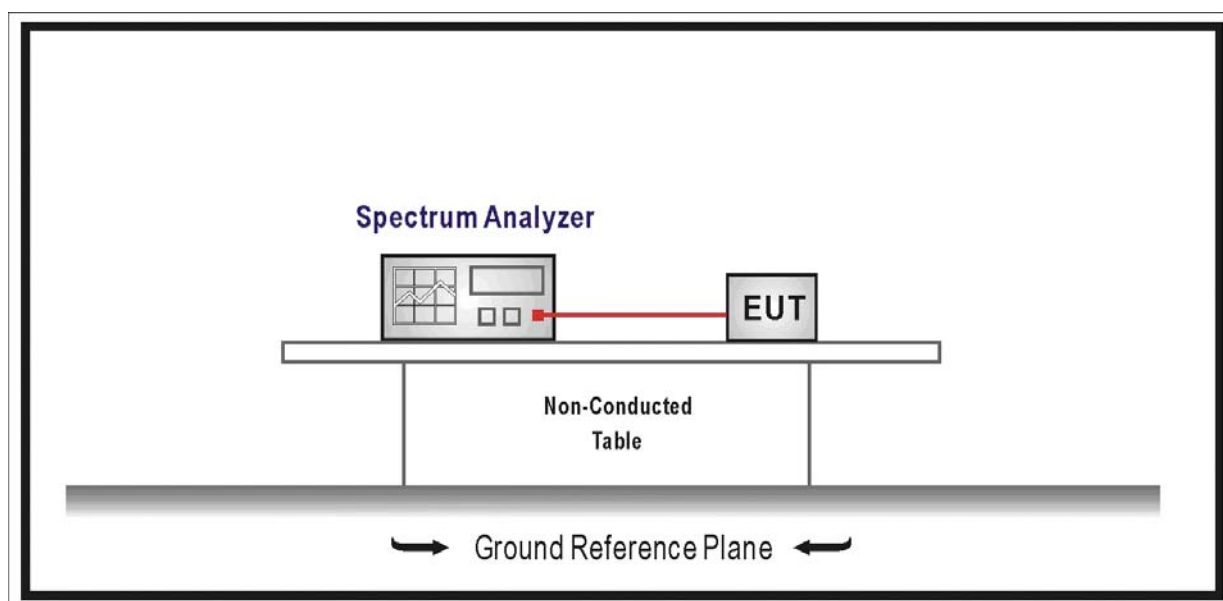
10.1. Test Equipment

Power Spectral Density / AC-6

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2009/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2008/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2009/03/30

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

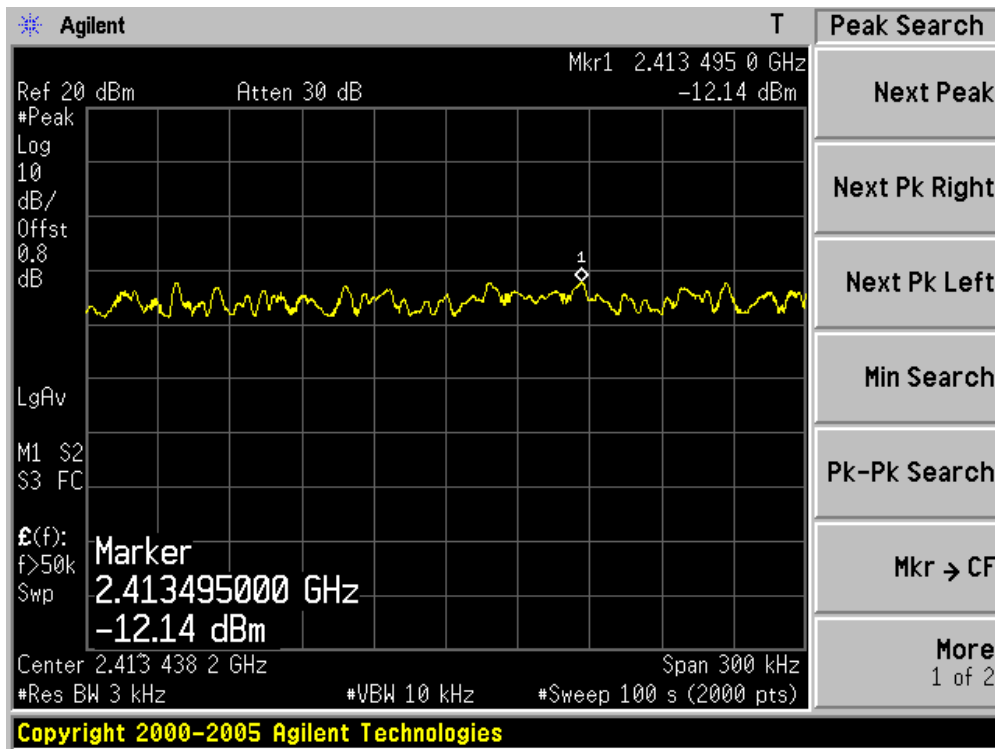
The measurement uncertainty is defined as ± 1.27 dB

10.6. Test Result

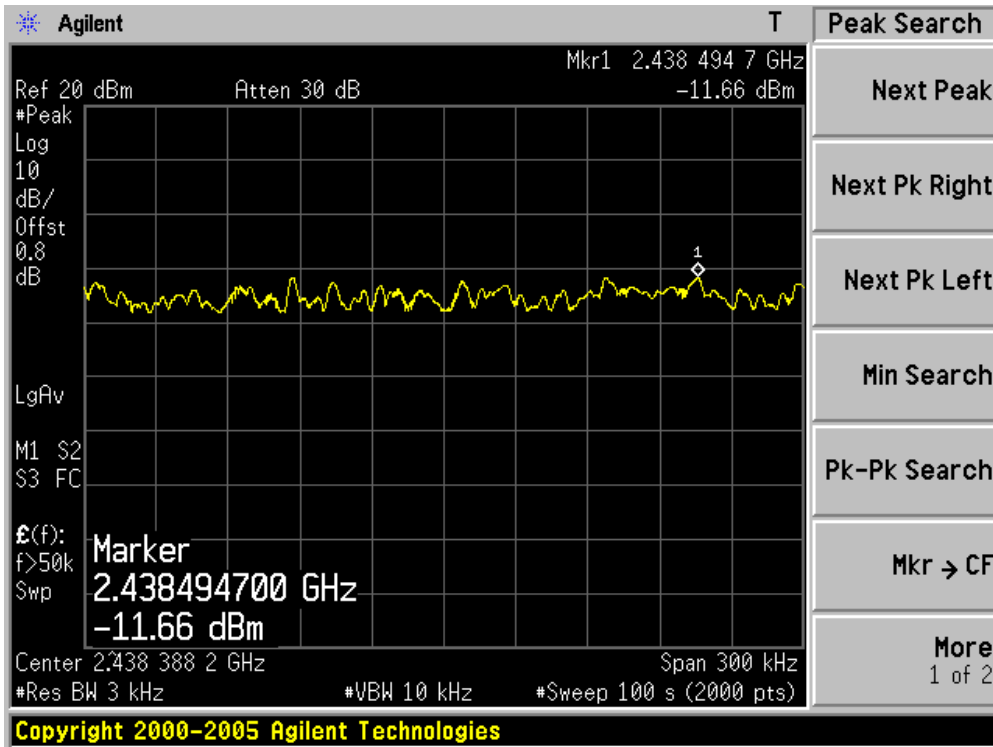
Product	:	Eee PC
Test Item	:	Power Spectral Density
Test Site	:	AC-6
Test Mode	:	Mode 1: Transmit by 802.11b

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

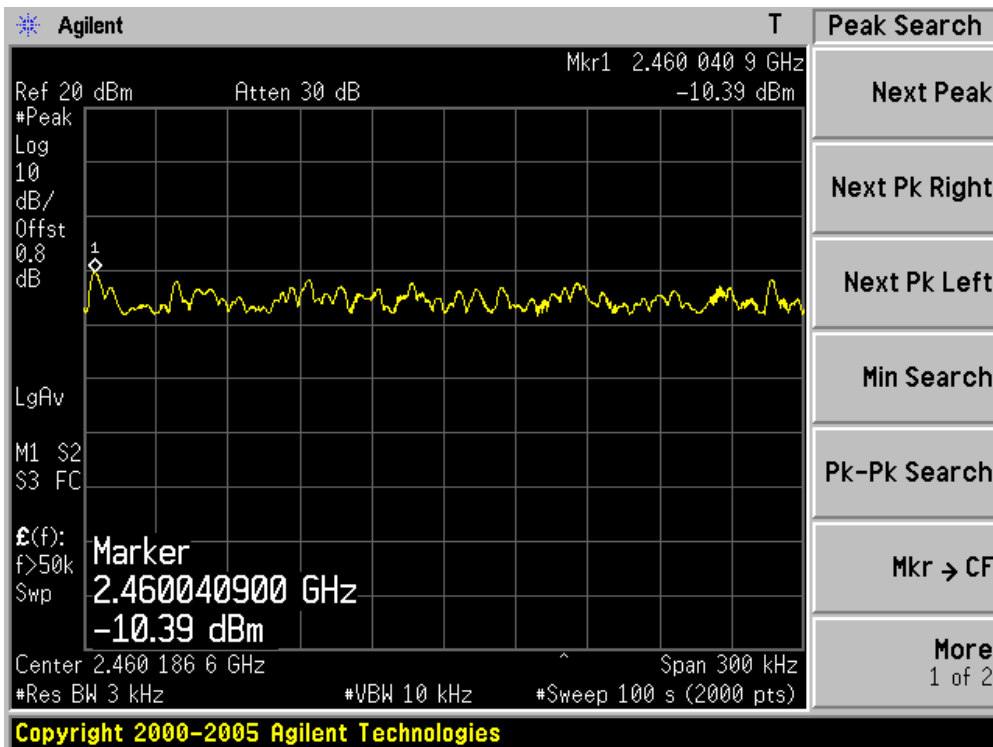
Channel 01 (2412MHz)



Channel 06 (2437MHz)



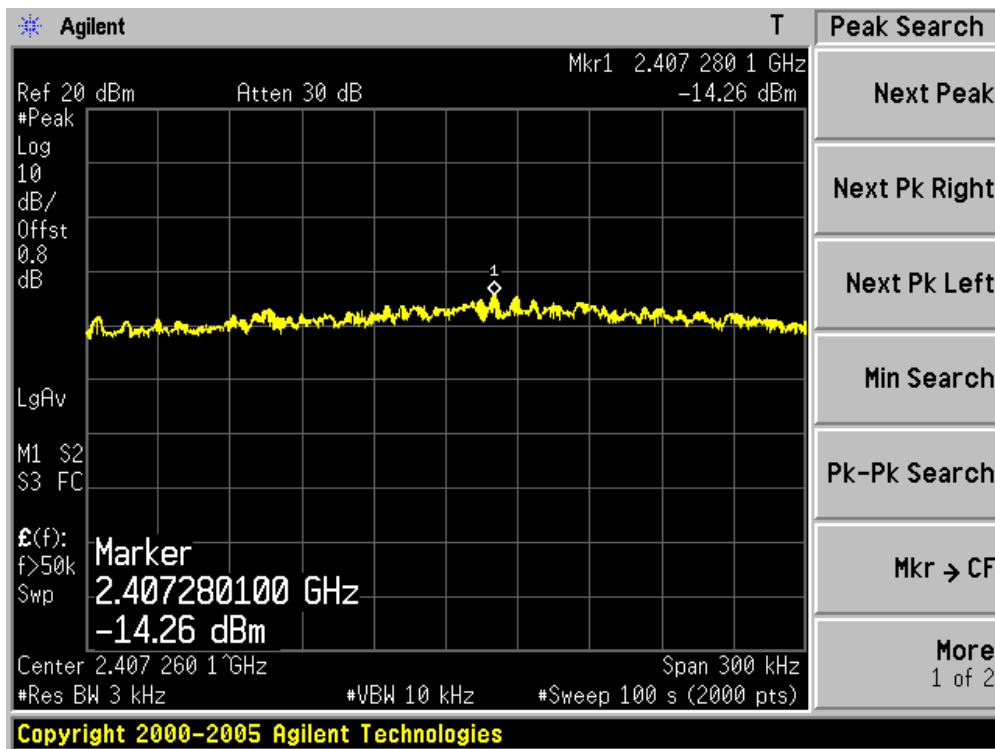
Channel 11 (2462MHz)



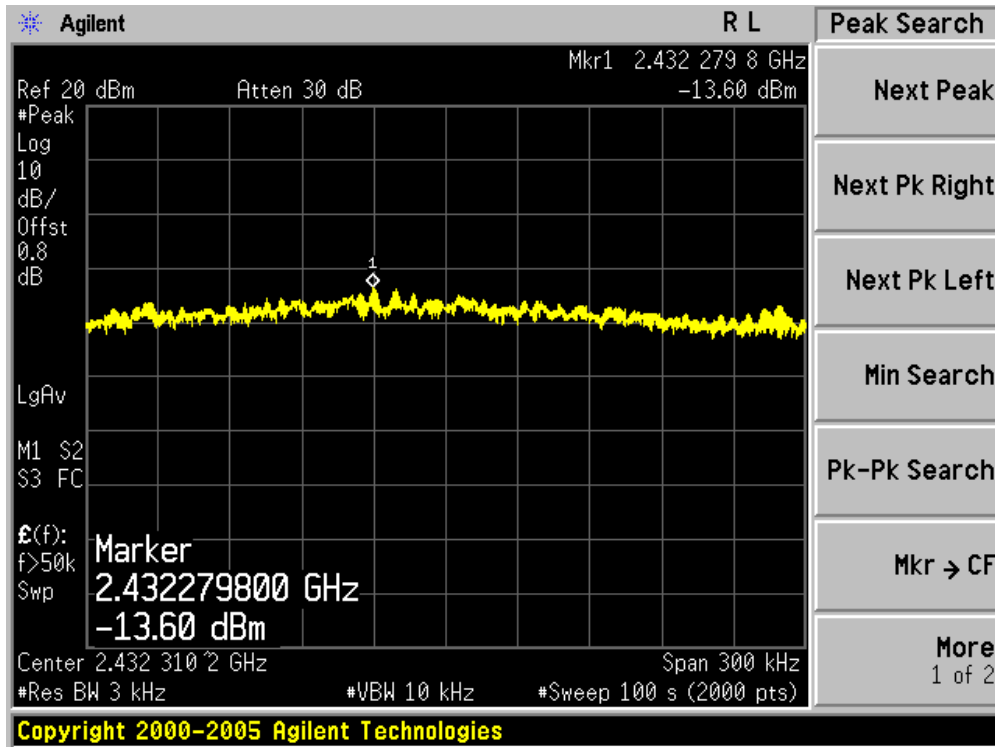
Product	:	Eee PC
Test Item	:	Power Spectral Density
Test Site	:	AC-6
Test Mode	:	Mode 2: Transmit by 802.11g

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

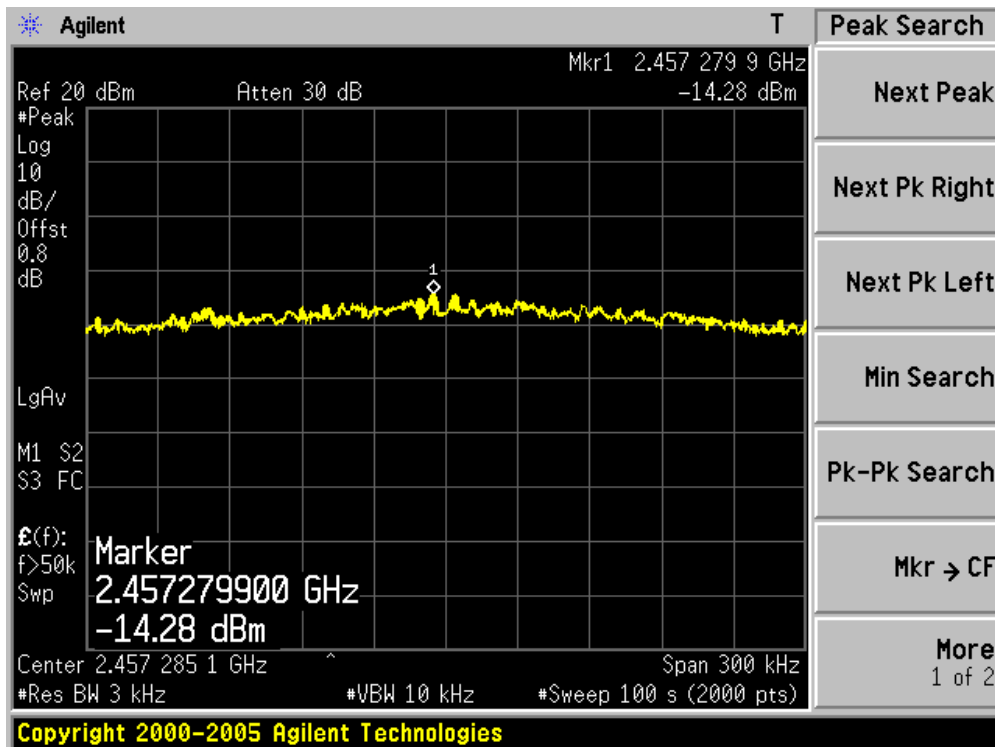
Channel 01 (2412MHz)



Channel 06 (2437MHz)



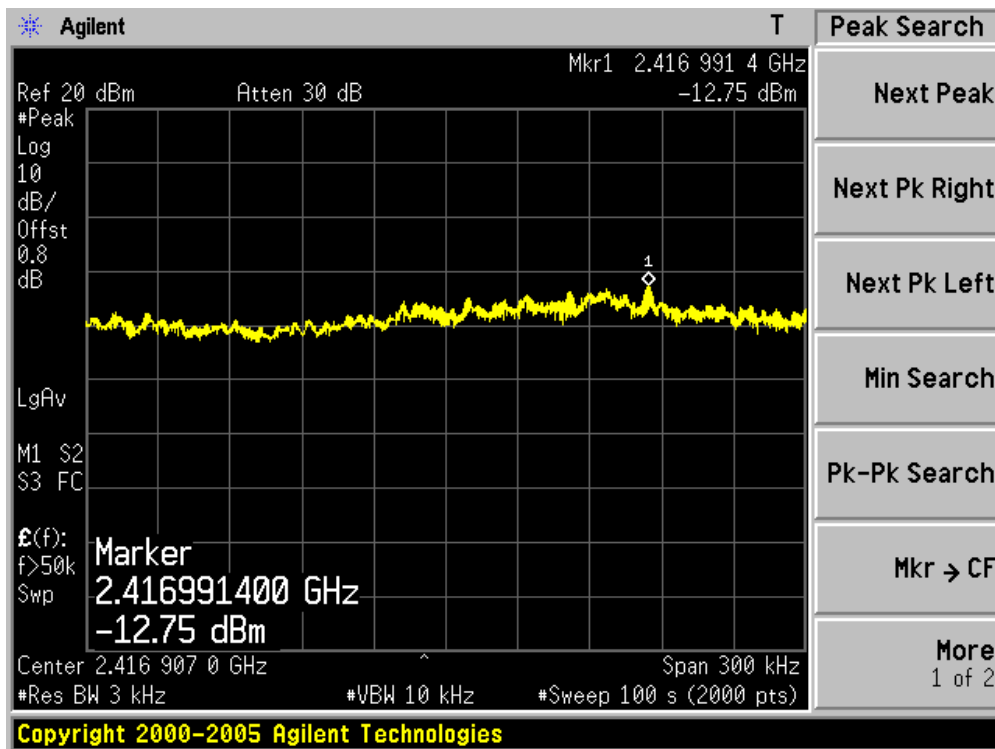
Channel 11 (2462MHz)



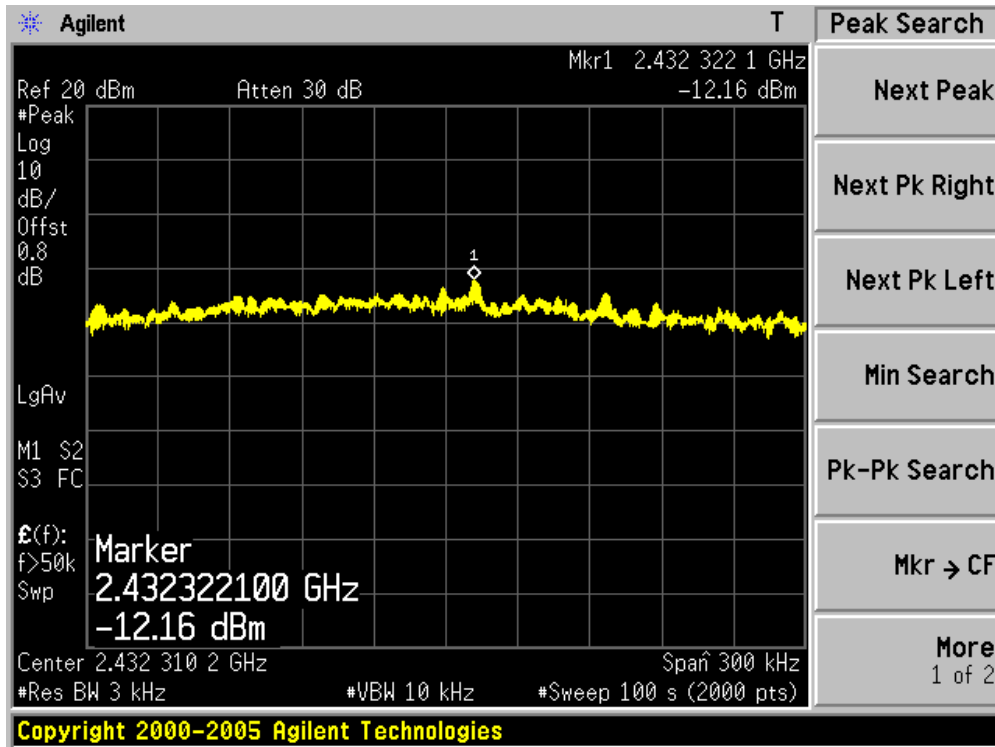
Product	:	Eee PC
Test Item	:	Power Spectral Density
Test Site	:	AC-6
Test Mode	:	Mode 4: Transmit by 802.11n (20MHz)

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

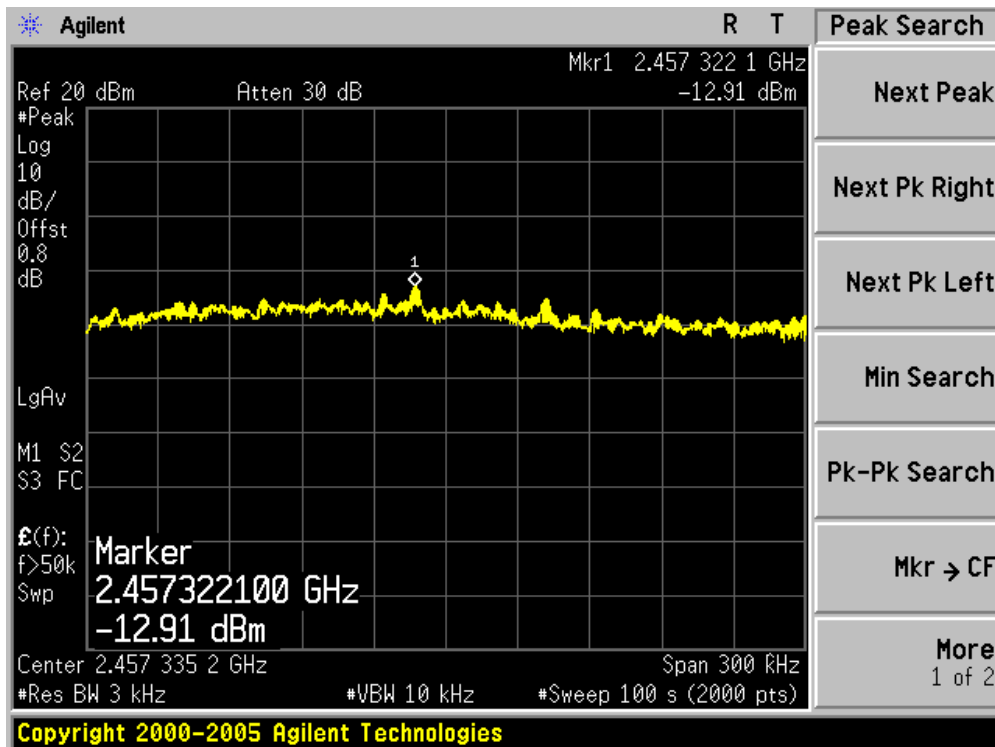
Channel 01 (2412MHz)



Channel 06 (2437MHz)



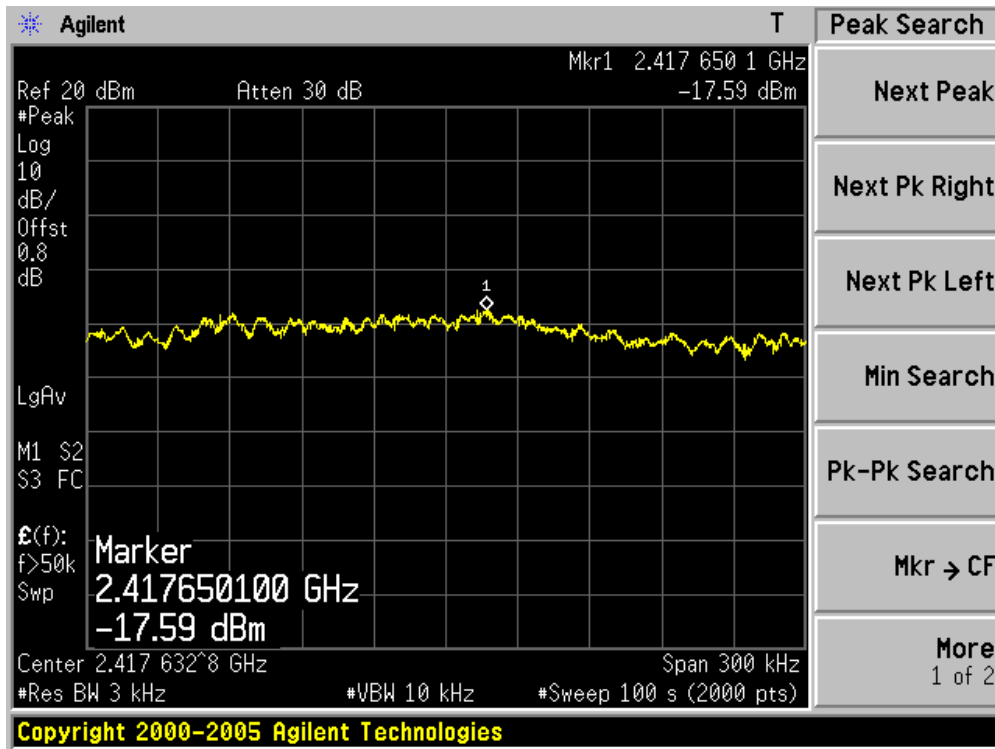
Channel 11 (2462MHz)



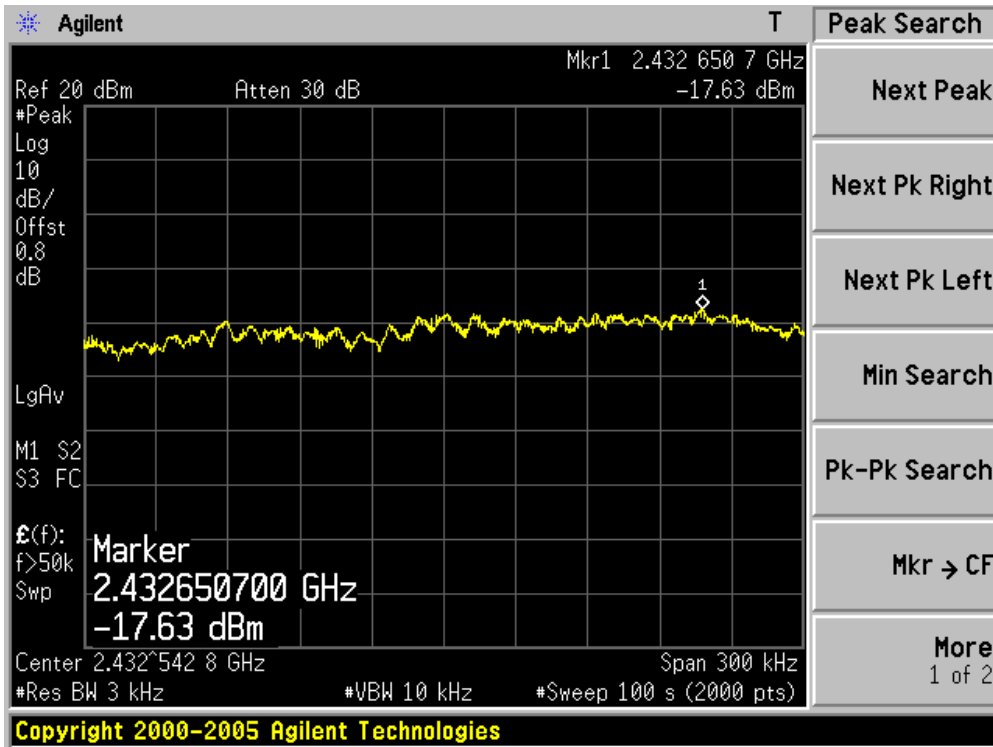
Product	:	Eee PC
Test Item	:	Power Spectral Density
Test Site	:	AC-6
Test Mode	:	Mode 5: Transmit by 802.11n (40MHz)

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

Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)

