CLASS II PERMISSIVE CHANGE MEASUREMENT REPORT

of

Wireless Ethernet Router

Applicant	**:**	ASUSTek Computer Inc.
EUT	**:**	4-Port Wireless Ethernet Router
Model No.	**:**	AAM6XXXVI-B6; 6218-I1-XXX; AM604g
FCC ID	**:**	MSQAAM6KVIB6

Tested by :

Training Research Co., Ltd.

TEL : 886-2-26935155 FAX : 886-2-26934440

No. 255, Nanyang Street, Shijr, Taipei Hsien 221, Taiwan, R.O.C.

CERTIFICATION

We here by verify that:

The test data, data evaluation, test procedures and equipment configurations shown in this report were made mainly in accordance with the procedures given in ANSI C63.4 (2003) as a reference. All test were conducted by ***Training Research Co., Ltd.***, 255 Nanyang Street, Shijr, Taipei Hsien 221, Taiwan, R.O.C. Also, we attest to the accuracy of each.

We further submit that the energy emitted by the sample EUT tested as described in the report is **in compliance with** the technical requirements set forth in the FCC Rules Part 15 Subpart B (Declaration of Conformity) and C Section 15.247.

Applicant	**:**	ASUSTek Computer Inc.
Applicant Address	**:**	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan, R.O.C.
Product Name	**:**	4-Port Wireless Ethernet Router
Model	**:**	AAM6XXXVI-B6; 6218-I1-XXX, AM604g
Report No.	**:**	A5415050815
Test Date	**:**	November 17, 2005

Prepared by: *Jack Tsai* **Approved by:** *Frank Tsai*

Conditions of issue :

(1) This test report shall not be reproduced except in full, without written approval of TRC. And the test result contained within this report only relate to the sample submitted for testing.

(2) This report must not be used by the client to claim product endorsement by NVLAP or any agency of U.S. Government.

(3) This test report, measurements made by TRC are traceable to the NIST only Conducted and Radiated Method.

★ NVLAP LAB CODE: 200174-0

Federal Communications Commission

Declaration of Conformity

for the following equipment:

Product name : 4-Port Wireless Ethernet Router

Trade name : ASUS ; PARADYNE

Model name : AAM6XXXVI-B6; 6218-I1-XXX; AM604g

Is herewith confirmed and found to comply with the requirements of CFR 47 part15 Subpart B - Unintentional Radiators regulation. The results of electromagnetic mission evaluation are shown in the report number : A5415050815

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation

Manufacturer	***USA local representative***
Company name: ASUSTeK Computer Inc.	To be determined
Computer address: 4/F, 150, Li-Te Rd., Peitou, Taipei, Taiwan	
ZIP / Postal code 112	
Contact person: Lawrence Yu	
Title: Manager	
Internet e-mail address: lawrence_yu@asus.com.tw	
Tel / Fax: 886-2-28943447 / 886-2-28950113	

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Ⅰ. GENERAL

1.1 Introduction

The following measurement report is submitted on behalf of applicant in support that the certification in accordance with Part 2 Subpart J and Part 15 Subpart A, B and C of the Commission's Rules and Regulations.

1.2 Description of EUT

FCC ID	**:**	MSQAAM6KVIB6
Product Name	**:**	4-Port Wireless Ethernet Router
Model Name	**:**	AAM6XXXVI-B6; 6218-I1-XXX; AM604g
Frequency Range	**:**	2.412GHz ~ 2.462GHz
Channel Spacing	**:**	5MHz
Support Channel	**:**	11 Channels
Modulation Skill	**:**	DBPSK, DQPSK, CCK, OFDM
Power Type	**:**	Powered by the AC to AC adapter, Model: AA-151A I/P: 120VAC, 60Hz, 20W O/P: 15VAC, 1A 185cm length, non-shielded, no ferrite core
Data Cable	**:**	RJ45 cable x1, 60cm length, non-shielded, no ferrite core RJ45 cable x2, 2m length, non-shielded, no ferrite core RJ45 cable x1, 30m length, non-shielded, no ferrite core RJ11 cable x1, 30m length, non-shielded, no ferrite core

1.3 Test method

1.3.1 The LINE port of EUT connected to ADSL evaluation module located remotely.

1.3.2 The LAN2, LAN3 ports are termination by RJ45 cables.

1.3.3 The LAN1 port connected to far LAN card.

1.3.4 Connected the LAN4 port to the LAN interface of PC. Using PC and software provided by the manufacturer to control EUT, the test is performed under the specific conditions.

1.3.5 Set different data rate and channel (CH01/CH06/CH11) being tested and repeat the procedures above.

(a) Radiated for Intentional test:
making EUT to the mode of continuous transmission

(b) Conducted test and Radiated for unintentional test:
making EUT to the linking (RX/TX) mode with far support equipments

1.4 Description of Support Equipment

In order to construct the minimum testing, following equipment were used as the support units.

PC	**:**	**IBM 8434**
Model No.	:	IVG
Serial No.	:	99CCZG9
FCC ID	:	N/A, DoC (Declaration of Confirmation) Approved
BSMI	:	R33026
Power type	:	100 ~ 127VAC/6A, 200 ~ 240VAC/3A, 50 ~ 60Hz, Switching
Power cord	:	Non-shielded, 1.8m length, Plastic hood, No ferrite core
Monitor	**:**	**HP 15' Color Monitor**
Model No.	:	D8894A
Serial No.	:	CN02364355
FCC ID	:	ARSCM356N
BSMI	:	3882A031
Power type	:	100 ~ 240 VAC / 1.5A, 50 ~ 60 Hz, Switching
Power cord	:	Non-shielded, 1.80m length, Plastic hood, No ferrite core
Data cable	:	Shielded, 1.50m length, Plastic hood, with ferrite core

Printer	**:**	**EPSON**
Model No.	:	B241A
Serial No.	:	FAPY155090
FCC ID	:	N/A, DoC Approved
BSMI	:	R33126
Power type	:	Switching adaptor
Power cord	:	Non-shielded, 198cm length, No ferrite core
Data cable	:	Shielded, 1.50m length, No ferrite core

PS/2 Mouse	**:**	**HP**
Model No.	:	M-S69
Serial No.	:	334684-002 323614-001
FCC ID	:	DoC Approved
BSMI	:	R41126
Power type	:	By PC
Power cord	:	Shielded, 1.90m length, No ferrite core

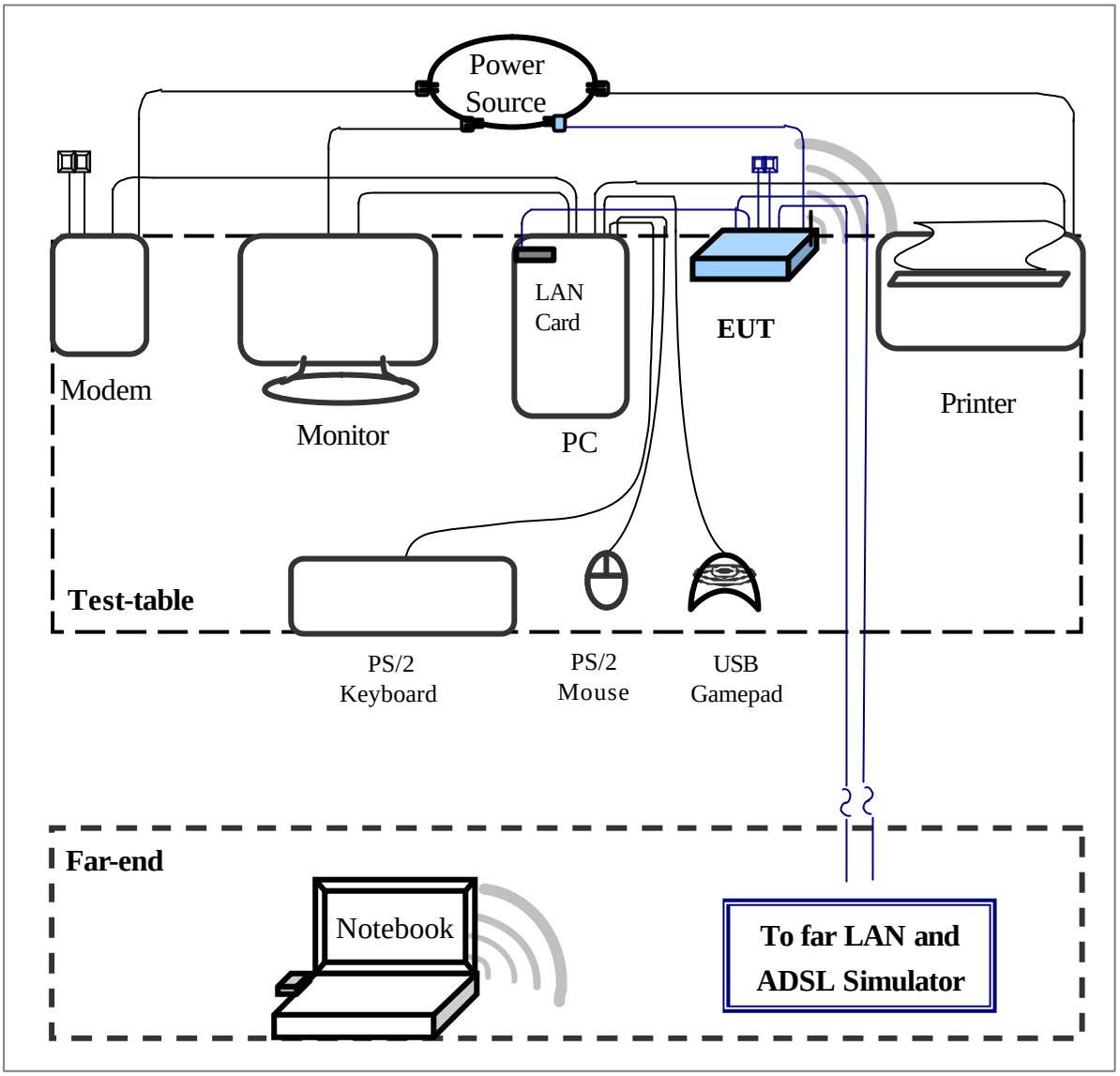
PS/2 Keyboard	**:**	**HP**
Model No.	:	KB0133
Serial No.	:	B69360MGAPW0HF
FCC ID	:	DoC Approved
BSMI	:	R31310
Power type	:	By PC
Data cable	:	Shielded, 1.73m length, no ferrite core

Modem	**:**	**ACEEX**
Model No.	:	DM-1414
Serial No.	:	9010583
FCC ID	:	IFAXDM1414
Power type	:	Linear
Power cord	:	Non-shielded, 1.9m length, No ferrite cord
Data cable	:	RS232, Shielded, 1.2m length, No ferrite core
		RJ11C x 2, 7’ length non-shielded, No ferrite core

USB Game pad	**:**	**Logitech**
Model No.	:	G-UC3B
Serial No.	:	AE3500500
FCC ID	:	DoC Approved
BSMI	:	4902A047
Power Cable	:	Shielded, 187cm length, Plastic hood, No ferrite core.
LAN Card	**:**	**D-Link**
Model No.	:	DFE-530TX
Serial No.	:	0050BAE32FF3
FCC ID	:	N/A, DoC Approved
ADSL Emulator	**:**	**GLOBESPAN SEMICONDUCTOR INC.**
Model No.	:	GDS-0205-04
Serial No.	:	077 3.1
Notebook PC	**:**	**IBM**
Model No.	:	2373-IMV
Serial No.	:	99R3H1H
FCC ID	:	DoC (Declaration of Confirmation) Approved
BSMI	:	R33026
DGT	:	92LP0137
Power adaptor	**:**	**IBM**
Part No.	:	08K8202
Serial No.	:	11S08K8202Z1Z6LR459001A REV 06
BSMI	:	D33190
Power type	:	100 ~ 240VAC / 50 ~ 60Hz, 1.5 ~ 0.5A, Switching
Power cord	:	Non-shielded, 1.0m length, Plastic hood, No ferrite core (Main power to adaptor)
Power cord	:	Shielded, 1.84m length, Plastic hood, ferrite core (DC plug to adaptor)
WLAN Card	**:**	**Gemtek Technology Co., Ltd.**
Model No.	:	C911003
FCC ID	:	MXF-C911003

1.5 Configuration of System Under Test

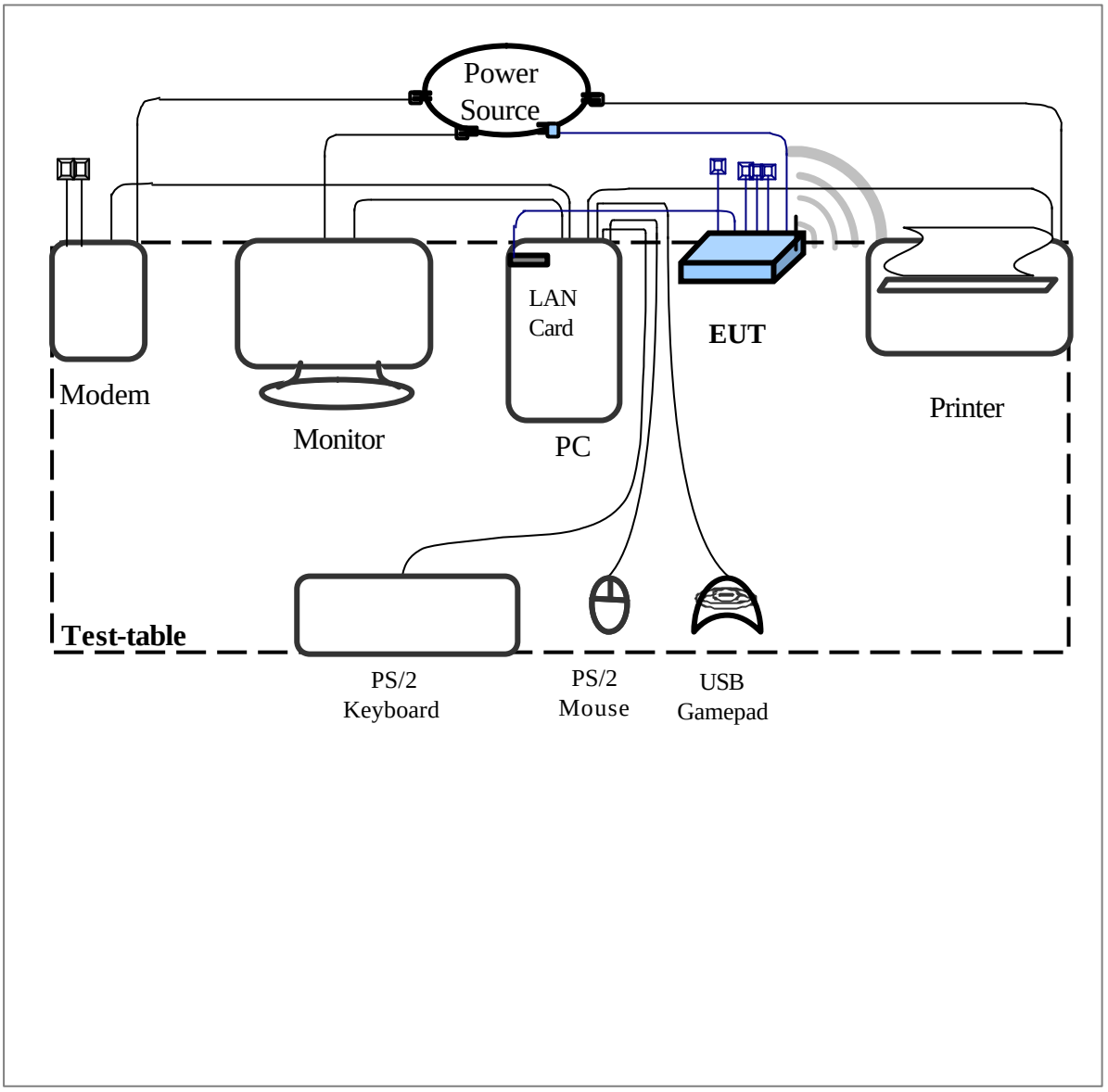
1.5.1 Conducted and Radiated for Unintentional



Connections of Equipment

PC: *Parallel Port …….. a printer
*VGA Port ……. a monitor
*Serial Port ……..... an external modem
*USB Port ……... a USB gamepad
*PS/2-key Port …… a PS/2 keyboard
*PS/2-mouse Port … a PS/2 mouse
*LAB Port ……..… **EUT**

1.5.2 Radiated of Intentional



The tests below are carried with the EUT transmitter set at high power in TDD mode. The EUT is forced to select of output power level and channel number by LAN port.

The setting up procedure was recorded in 1.3 test method.

1.6 Verify the Frequency and Channel

Channel	Frequency (GHz)
1	2.412
2	2.417
3	2.422
4	2.427
5	2.432
6	2.437
7	2.442
8	2.447
9	2.452
10	2.457
11	2.462

Note:

1. This is for confirming that all frequencies are in 2.412GHz to 2.462GHz.
2. Section 15.31(m): Measurements on intentional radiators or receivers shall be performed at three frequencies for operating frequency range over 10 MHz
   (The locations of these frequencies one near the top, one near the middle and one near the bottom.)
3. After test, the EUT operating frequencies are in 2.412GHz to 2.462GHz. So all the items as followed in testing report are need to test these three frequencies:
   Top: Channel – 1; Middle: Channel – 6; Bottom: Channel – 11.

1.7 Test Procedure

All measurements contained in this report were performed mainly according to the techniques described in ANSI C63.4 (2003) and the pre-setup was written on 1.3 test method, the detail setup was written on each test item.

1.8 Location of the Test Site

The radiated emissions measurements required by the rules were performed on the **three-meter**, **Anechoic Chamber (FCC Registration Number: 93906)** maintained by *Training Research Co., Ltd.* 1F, No. 255 Nanyang Street, Shijr, Taipei Hsien 221, Taiwan, R.O.C. Complete description and measurement data have been placed on file with the commission. The conducted power line emissions tests and other test items were performed in a anechoic chamber also located at Training Research Co., Ltd.

No. 255 Nanyang Street, Shijr, Taipei Hsien 221, Taiwan, R.O.C. *Training Research Co., Ltd.* is listed by the FCC as a facility available to do measurement work for others on a contract basis.

1.9 General Test Condition

The conditions under which the EUT operates were varied to determine their effect on the equipment's emission characteristics. The final configuration of the test system and the mode of operation used during these tests were chosen as that which produced the highest emission levels. However, only those conditions, which the EUT was considered likely to encounter in normal use were investigated.

In test, they were set in high power and continuously transmitting mode that controlled by computer. The ch01, ch06 and ch11 of EUT were all tested. The setting up procedure is recorded on 1.3 test method.

II. Section 15.101(a): Equipment authorization of unintentional radiators

The EUT equipped with a LAN interface and should be operated with the computer. It was categorized to *Class B personal computers and peripherals* as cannot be operated stand-alone. The authorization requires **Declaration of Conformity (DoC)** and the items required such as Section15.107 (Conducted limits) and Section15.109 (Radiated emission limits) is same as Section15.207 and 15.247(C).

III. Section 15.203: Antenna requirement

The EUT can be equipped with un-detachable antenna. The external antenna is affixed to the EUT using a unique connector, which allows for replacement of a broken antenna, but does not use a standard antenna jack or electrical connector. The antenna requirement stated in Section15.203 is inapplicable to this EUT.

The custom antenna specification of list as below:

Antenna#1:

Manufacturer	:	WHA YU INDUSTRIAL CO., LTD.
Part No	:	C660-510075-A
Connector	:	SMA Plug Reverse
Antenna Type	:	Dipole Antenna
Antenna Gain	:	3.0dBi

Antenna#2:

Manufacturer	:	WHA YU INDUSTRIAL CO., LTD.
Part No	:	C660-510017-A
Connector	:	SMA Plug Reverse
Antenna Type	:	Dipole Antenna
Antenna Gain	:	2.0dBi

IV. Section 15.207: Power Line Conducted Emissions for AC Powered Units

4.1 Test Condition & Setup

The power line conducted emission measurements were performed in an anechoic chamber. The EUT was assembled on a wooden table, which is 80 centimeters high, was placed 40 centimeters from the backwall and at least 1 meter from the sidewall.

Power was fed to the EUT from the public utility power grid through a line filter and Line Impedance Stabilization Networks (LISNs). The LISN housing, measuring instrumentation case, ground plane, etc., were electrically bonded together at the same RF potential. The Spectrum analyzer (or EMI receiver) was connected to the AC line through an isolation transformer. The 50-ohm output of the LISN was connected to the spectrum analyzer directly. Conducted emission levels were in the CISPR quasi-peak and average detection mode. The analyzer's 6 dB bandwidth was set to 9 KHz. No post-detector video filter was used.

The spectrum was scanned from 150 KHz to 30 MHz. The physical arrangement of the test system and associated cabling was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude and frequency. All spurious emission frequencies were observed. The highest emission amplitudes relative to the appropriate limit were measured and have been recorded in paragraph 4.3

There is a test condition apply in this test item, the test procedure description as <1.3>. Three channels were tested, one in the top (CH01), one in the middle (CH06) and the other in bottom (CH11).

4.2 List of Test Instruments

Calibration Date

Instrument Name	Model	Brand	Serial No.	Next time
EMI Receiver	8546A	HP	3520A00242	06/01/06
RF Filter Section	85460A	HP	3448A00217	06/01/06
LISN (EUT)	LISN-01	TRC	99-05	01/07/06
LISN (Support E.)	LISN-01	TRC	9912-03, 04	02/04/06
Pre-amplifier	15542 ZFL-500	Mini – Circuits	0 0117	05/20/06
6dB Attenuator	MCL BW-S6W2	Mini – Circuits	9915 – Conducted	05/20/06
10dB Attenuator	A5542 VAT010	Mini – Circuits	0215 – Conducted	05/20/06
Coaxial Cable (2 meter)	A30A30-0058-50FS-2M	Jyebao	SMA-08	05/20/06
Coaxial Cable (1.1 meter)	A30A30-0058-50FS-1M	Jyebao	SMA-09	05/20/06
Coaxial Cable (20 meter)	RG-214/U	Jyebao	NP-01	05/20/06
Coaxial Cable (20 meter)	RG-214/U	Jyebao	NP-02	05/20/06
Auto Switch Box (< 30MHz)	ASB-01	TRC	9904-01	05/20/06

4.3 Test Result of Power Line Conducted Emissions

The following table shows a summary of the highest emissions of power line conducted emissions on the LIVE and NETURAL conductors of the EUT power cord. Show as follows.

Test Conditions: Temperature : 24 °C Humidity : 70 % RH

Test mode: Standby mode for Antenna#1

Power Connected Emissions					*Class B*		
Conductor	***Frequency (KHz)***	***Peak (dBmV)***	***QP (dBmV)***	***Average (dBmV)***	***QP-limit (dBmV)***	***AVG-limit (dBmV)***	***Margin (dB)***
Line 1	781.000	38.17	---	---	56.00	46.00	-7.83
	1134.000	36.69	---	---	56.00	46.00	-9.31
	1941.000	30.81	---	---	56.00	46.00	-15.19
	12190.000	40.58	---	---	60.00	50.00	-9.42
	16230.000	43.11	---	---	60.00	50.00	-6.89
	23120.000	40.87	---	---	60.00	50.00	-9.13
Line 2	674.000	39.23	---	---	56.00	46.00	-6.77
	781.000	39.64	---	---	56.00	46.00	-6.36
	1155.000	36.62	---	---	56.00	46.00	-9.38
	11560.000	41.85	---	---	60.00	50.00	-8.15
	16230.000	43.97	---	---	60.00	50.00	-6.03
	23120.000	42.27	---	---	60.00	50.00	-7.73

NOTE:

(1) Margin = Peak Amplitude – Limit, *The reading amplitudes are all under limit.*

(2) A "+" sign in the margin column means the emission is OVER the Class B Limit and "–" sign of means UNDER the Class B limit

Test mode: IEEE 802.11b Channel 1 for Antenna#1

Power Connected Emissions					*Class B*		
Conductor	*Frequency (KHz)*	*Peak (dBmV)*	*QP (dBmV)*	*Average (dBmV)*	*QP-limit (dBmV)*	*AVG-limit (dBmV)*	*Margin (dB)*
Line 1	674.000	39.51	---	---	56.00	46.00	-6.49
	781.000	38.01	---	---	56.00	46.00	-7.99
	1187.000	38.41	---	---	56.00	46.00	-7.59
	11450.000	37.78	---	---	60.00	50.00	-12.22
	16160.000	41.55	---	---	60.00	50.00	-8.45
	23120.000	43.16	---	---	60.00	50.00	-6.84
Line 2	688.000	39.54	---	---	56.00	46.00	-6.46
	1219.000	37.90	---	---	56.00	46.00	-8.10
	1550.000	34.94	---	---	56.00	46.00	-11.06
	11880.000	42.44	---	---	60.00	50.00	-7.56
	16230.000	43.80	---	---	60.00	50.00	-6.20
	23120.000	41.11	---	---	60.00	50.00	-8.89

Test mode: IEEE 802.11b Channel 6 for Antenna#1

Power Connected Emissions					*Class B*		
Conductor	*Frequency (KHz)*	*Peak (dBmV)*	*QP (dBmV)*	*Average (dBmV)*	*QP-limit (dBmV)*	*AVG-limit (dBmV)*	*Margin (dB)*
Line 1	180.000	40.44	---	---	65.14	55.14	-14.70
	688.000	37.47	---	---	56.00	46.00	-8.53
	1187.000	38.06	---	---	56.00	46.00	-7.94
	11880.000	40.53	---	---	60.00	50.00	-9.47
	16160.000	39.68	---	---	60.00	50.00	-10.32
	23010.000	40.74	---	---	60.00	50.00	-9.26
Line 2	651.000	39.73	---	---	56.00	46.00	-6.27
	781.000	38.74	---	---	56.00	46.00	-7.26
	1208.000	37.04	---	---	56.00	46.00	-8.96
	12130.000	43.41	---	---	60.00	50.00	-6.59
	16230.000	43.38	---	---	60.00	50.00	-6.62
	23010.000	41.55	---	---	60.00	50.00	-8.45

Test mode: IEEE 802.11b Channel 11 for Antenna#1

Power Connected Emissions					*Class B*		
Conductor	***Frequency (KHz)***	***Peak (dBmV)***	***QP (dBmV)***	***Average (dBmV)***	***QP-limit (dBmV)***	***AVG-limit (dBmV)***	***Margin (dB)***
Line 1	180.000	41.34	---	---	65.14	55.14	-13.80
	674.000	38.76	---	---	56.00	46.00	-7.24
	1187.000	35.79	---	---	56.00	46.00	-10.21
	11940.000	39.46	---	---	60.00	50.00	-10.54
	16230.000	43.02	---	---	60.00	50.00	-6.98
	23120.000	43.50	---	---	60.00	50.00	-6.50
Line 2	662.000	38.24	---	---	56.00	46.00	-7.76
	781.000	40.39	---	---	56.00	46.00	-5.61
	1230.000	37.66	---	---	56.00	46.00	-8.34
	11880.000	41.60	---	---	60.00	50.00	-8.40
	16160.000	44.02	---	---	60.00	50.00	-5.98
	22800.000	39.64	---	---	60.00	50.00	-10.36

Test mode: IEEE 802.11g Channel 1 for Antenna#1

Power Connected Emissions					*Class B*		
Conductor	***Frequency (KHz)***	***Peak (dBmV)***	***QP (dBmV)***	***Average (dBmV)***	***QP-limit (dBmV)***	***AVG-limit (dBmV)***	***Margin (dB)***
Line 1	180.000	41.41	---	---	65.14	55.14	-13.73
	651.000	36.97	---	---	56.00	46.00	-9.03
	1187.000	37.43	---	---	56.00	46.00	-8.57
	11940.000	38.60	---	---	60.00	50.00	-11.40
	16160.000	41.83	---	---	60.00	50.00	-8.17
	23120.000	44.00	---	---	60.00	50.00	-6.00
Line 2	651.000	39.27	---	---	56.00	46.00	-6.73
	781.000	40.08	---	---	56.00	46.00	-5.92
	1187.000	37.59	---	---	56.00	46.00	-8.41
	12130.000	42.79	---	---	60.00	50.00	-7.21
	16230.000	40.39	---	---	60.00	50.00	-9.61
	23010.000	41.81	---	---	60.00	50.00	-8.19

Test mode: IEEE 802.11g Channel 6 for Antenna#1

Power Connected Emissions					*Class B*		
Conductor	*Frequency (KHz)*	*Peak (dBmV)*	*QP (dBmV)*	*Average (dBmV)*	*QP-limit (dBmV)*	*AVG-limit (dBmV)*	*Margin (dB)*
Line 1	179.000	41.53	---	---	65.17	55.17	-13.64
	651.000	36.58	---	---	56.00	46.00	-9.42
	1187.000	37.80	---	---	56.00	46.00	-8.20
	12130.000	39.13	---	---	60.00	50.00	-10.87
	16160.000	43.04	---	---	60.00	50.00	-6.96
	23120.000	39.85	---	---	60.00	50.00	-10.15
Line 2	639.000	39.57	---	---	56.00	46.00	-6.43
	1198.000	38.24	---	---	56.00	46.00	-7.76
	1924.000	33.43	---	---	56.00	46.00	-12.57
	12130.000	42.02	---	---	60.00	50.00	-7.98
	16830.000	42.70	---	---	60.00	50.00	-7.30
	23120.000	41.41	---	---	60.00	50.00	-8.59

Test mode: IEEE 802.11g Channel 11 for Antenna#1

Power Connected Emissions					*FCC Class B*		
Conductor	*Frequency (KHz)*	*Peak (dBmV)*	*QP (dBmV)*	*Average (dBmV)*	*QP-limit (dBmV)*	*AVG-limit (dBmV)*	*Margin (dB)*
Line 1	781.000	38.08	---	---	56.00	46.00	-7.92
	1208.000	37.04	---	---	56.00	46.00	-8.96
	11560.000	39.96	---	---	60.00	50.00	-10.04
	16230.000	42.09	---	---	60.00	50.00	-7.91
	18240.000	41.61	---	---	60.00	50.00	-8.39
	23120.000	42.11	---	---	60.00	50.00	-7.89
Line 2	639.000	38.06	---	---	56.00	46.00	-7.94
	1198.000	36.99	---	---	56.00	46.00	-9.01
	11610.000	39.85	---	---	60.00	50.00	-10.15
	16230.000	45.63	---	---	60.00	50.00	-4.37
	18240.000	43.13	---	---	60.00	50.00	-6.87
	23120.000	42.14	---	---	60.00	50.00	-7.86

Test mode: Standby mode for Antenna#2

Power Connected Emissions					*Class B*		
Conductor	*Frequency (KHz)*	*Peak (dBmV)*	*QP (dBmV)*	*Average (dBmV)*	*QP-limit (dBmV)*	*AVG-limit (dBmV)*	*Margin (dB)*
Line 1	651.000	34.69	---	---	56.00	46.00	-11.31
	788.000	37.08	---	---	56.00	46.00	-8.92
	1166.000	37.40	---	---	56.00	46.00	-8.60
	11940.000	40.08	---	---	60.00	50.00	-9.92
	16230.000	39.96	---	---	60.00	50.00	-10.04
	23120.000	41.85	---	---	60.00	50.00	-8.15
Line 2	674.000	35.13	---	---	56.00	46.00	-10.87
	1198.000	37.54	---	---	56.00	46.00	-8.46
	1924.000	30.26	---	---	56.00	46.00	-15.74
	11560.000	42.32	---	---	60.00	50.00	-7.68
	17710.000	43.05	---	---	60.00	50.00	-6.95
	23120.000	43.19	---	---	60.00	50.00	-6.81

Test mode: IEEE 802.11b Channel 1 for Antenna#2

Power Connected Emissions					*Class B*		
Conductor	*Frequency (KHz)*	*Peak (dBmV)*	*QP (dBmV)*	*Average (dBmV)*	*QP-limit (dBmV)*	*AVG-limit (dBmV)*	*Margin (dB)*
Line 1	674.000	36.04	---	---	56.00	46.00	-9.96
	795.000	38.67	---	---	56.00	46.00	-7.33
	1187.000	37.40	---	---	56.00	46.00	-8.60
	16230.000	40.79	---	---	60.00	50.00	-9.21
	17530.000	40.04	---	---	60.00	50.00	-9.96
	23120.000	40.63	---	---	60.00	50.00	-9.37
Line 2	795.000	39.32	---	---	56.00	46.00	-6.68
	1198.000	37.43	---	---	56.00	46.00	-8.57
	1503.000	32.60	---	---	56.00	46.00	-13.40
	12190.000	42.32	---	---	60.00	50.00	-7.68
	15420.000	41.03	---	---	60.00	50.00	-8.97
	23120.000	44.37	---	---	60.00	50.00	-5.63

Test mode: IEEE 802.11b Channel 6 for Antenna#2

Power Connected Emissions					*Class B*		
Conductor	***Frequency (KHz)***	***Peak (dBmV)***	***QP (dBmV)***	***Average (dBmV)***	***QP-limit (dBmV)***	***AVG-limit (dBmV)***	***Margin (dB)***
Line 1	681.000	36.16	---	---	56.00	46.00	-9.84
	1208.000	37.19	---	---	56.00	46.00	-8.81
	11560.000	39.48	---	---	60.00	50.00	-10.52
	16230.000	42.67	---	---	60.00	50.00	-7.33
	19620.000	39.56	---	---	60.00	50.00	-10.44
	23010.000	39.66	---	---	60.00	50.00	-10.34
Line 2	645.000	36.09	---	---	56.00	46.00	-9.91
	795.000	38.20	---	---	56.00	46.00	-7.80
	1155.000	37.71	---	---	56.00	46.00	-8.29
	11500.000	42.07	---	---	60.00	50.00	-7.93
	16160.000	42.29	---	---	60.00	50.00	-7.71
	22380.000	40.87	---	---	60.00	50.00	-9.13

Test mode: IEEE 802.11b Channel 11 for Antenna#2

Power Connected Emissions					*Class B*		
Conductor	***Frequency (KHz)***	***Peak (dBmV)***	***QP (dBmV)***	***Average (dBmV)***	***QP-limit (dBmV)***	***AVG-limit (dBmV)***	***Margin (dB)***
Line 1	651.000	37.94	---	---	56.00	46.00	-8.06
	1208.000	37.64	---	---	56.00	46.00	-8.36
	1959.000	32.93	---	---	56.00	46.00	-13.07
	11450.000	38.99	---	---	60.00	50.00	-11.01
	16160.000	42.29	---	---	60.00	50.00	-7.71
	23120.000	42.77	---	---	60.00	50.00	-7.23
Line 2	651.000	38.74	---	---	56.00	46.00	-7.26
	1219.000	37.64	---	---	56.00	46.00	-8.36
	11880.000	40.97	---	---	60.00	50.00	-9.03
	15570.000	41.10	---	---	60.00	50.00	-8.90
	18240.000	42.31	---	---	60.00	50.00	-7.69
	22380.000	39.58	---	---	60.00	50.00	-10.42

Test mode: IEEE 802.11g Channel 1 for Antenna#2

Power Connected Emissions					*Class B*		
Conductor	***Frequency (KHz)***	***Peak (dBmV)***	***QP (dBmV)***	***Average (dBmV)***	***QP-limit (dBmV)***	***AVG-limit (dBmV)***	***Margin (dB)***
Line 1	651.000	37.24	---	---	56.00	46.00	-8.76
	781.000	37.69	---	---	56.00	46.00	-8.31
	1187.000	35.85	---	---	56.00	46.00	-10.15
	11560.000	39.71	---	---	60.00	50.00	-10.29
	16230.000	41.94	---	---	60.00	50.00	-8.06
	23120.000	44.89	---	---	60.00	50.00	-5.11
Line 2	639.000	39.46	---	---	56.00	46.00	-6.54
	781.000	39.87	---	---	56.00	46.00	-6.13
	1208.000	37.52	---	---	56.00	46.00	-8.48
	11450.000	41.31	---	---	60.00	50.00	-8.69
	16230.000	42.50	---	---	60.00	50.00	-7.50
	23120.000	39.94	---	---	60.00	50.00	-10.06

Test mode: IEEE 802.11g Channel 6 for Antenna#2

Power Connected Emissions					*Class B*		
Conductor	***Frequency (KHz)***	***Peak (dBmV)***	***QP (dBmV)***	***Average (dBmV)***	***QP-limit (dBmV)***	***AVG-limit (dBmV)***	***Margin (dB)***
Line 1	781.000	37.69	---	---	56.00	46.00	-8.31
	1176.000	37.45	---	---	56.00	46.00	-8.55
	11450.000	39.25	---	---	60.00	50.00	-10.75
	16160.000	41.26	---	---	60.00	50.00	-8.74
	18240.000	40.05	---	---	60.00	50.00	-9.95
	23120.000	42.44	---	---	60.00	50.00	-7.56
Line 2	651.000	38.60	---	---	56.00	46.00	-7.40
	1208.000	36.39	---	---	56.00	46.00	-9.61
	1534.000	33.09	---	---	56.00	46.00	-12.91
	11880.000	42.04	---	---	60.00	50.00	-7.96
	16160.000	43.59	---	---	60.00	50.00	-6.41
	22490.000	38.90	---	---	60.00	50.00	-11.10

Test mode: IEEE 802.11g Channel 11 for Antenna#2

Power Connected Emissions					*FCC Class B*		
Conductor	***Frequency (KHz)***	***Peak (dBmV)***	***QP (dBmV)***	***Average (dBmV)***	***QP-limit (dBmV)***	***AVG-limit (dBmV)***	***Margin (dB)***
Line 1	179.000	40.08	---	---	65.17	55.17	-15.09
	662.000	35.88	---	---	56.00	46.00	-10.12
	1198.000	38.43	---	---	56.00	46.00	-7.57
	11880.000	39.80	---	---	60.00	50.00	-10.20
	16230.000	41.10	---	---	60.00	50.00	-8.90
	23120.000	41.83	---	---	60.00	50.00	-8.17
Line 2	688.000	37.12	---	---	56.00	46.00	-8.88
	1230.000	38.53	---	---	56.00	46.00	-7.47
	1941.000	31.81	---	---	56.00	46.00	-14.19
	11880.000	43.73	---	---	60.00	50.00	-6.27
	16160.000	42.69	---	---	60.00	50.00	-7.31
	23120.000	43.92	---	---	60.00	50.00	-6.08

V. Section 15.247 (C): Spurious Emissions (Radiated)

5.1 Test Condition & Setup

We' d performed the test by the *radiated emission* skill: The EUT was placed in an anechoic chamber, and set the EUT transmitting continuously and scanned at 3-meter distance to determine its emission characteristics. The physical arrangement of the EUT was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude, directivity, and frequency. The exact system configuration, which produced the highest emissions was noted so it could be reproduced later during the final tests. For the measurement above 1GHz, according to the guidance we' d set the spectrum analyzer' s 6dB bandwidth RBW to 1MHz.

This was done to ensure that the final measurements would demonstrate the worst-case interference potential of the EUT.

Final radiation measurements were made on a three-meter, anechoic chamber. The EUT system was placed on a nonconductive turntable, which is 0.8 meters height, top surface 1.0 x 1.5 meter.

The spectrum was examined from 30MHz to 1000MHz using an Hewlett Packard 85460A EMI Receiver, SCHWARZECK whole range Small Biconical Antenna (Model No.: UBAA9114 & BBVU9135) is used to measure frequency from 30 MHz to 1GHz. The final test is used the HP 85460A spectrum and 8564E spectrum was examined from 1GHz to 25GHz using an Hewlett Packard Spectrum Analyzer, EMCO/HP Horn Antenna (Model 3115 / 84125-80008) for 1G - 25GHz.

At each frequency, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.

Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. There are two spectrum analyzers use on this testing, HP 85460A for frequency 30MHz to 1000MHz, and 8564E for frequency 1GHz to 25GHz. No post-detector video filters were used in the test. The spectrum analyzer's 6dB bandwidth was set to 120KHz (spectrum was examined from 30 MHz to 1000 MHz), the spectrum analyzer's 6 dB bandwidth was set to 1 MHz (spectrum was examined from 1GHz to 25GHz) and the analyzer was operated in the maximum hold mode. There is a test condition applies in this test item, the test procedure description as the following:

Three channels were tested, one in the top (CH01), one in the middle (CH06) and the other in bottom (CH11). The setting up procedure is recorded on <1.3>

With the transmitter operating from a AC source and using the internal of EUT, radiates spurious emissions falling within the restricted bands of 15.209 were measured at operating frequencies corresponding to upper, middle and bottom channels in the 2400 ~ 2483.5 MHz band.

The actual field intensity in decibels referenced to 1 microvolt per meter (dBμV/m) is determined by algebraically adding the measured reading in dBμV, the antenna factor (dB), and cable loss (dB) at the appropriate frequency. Since the EUT was set to transmit continuously, no *duty cycle* is present.

For frequency between 30MHz to 1000MHz

FIa (dBuV/m) = FIr (dBμV) + Correction Factors

FIa :Actual Field Intensity

FIr :Reading of the Field Intensity

Correction Factors = Antenna Factor + (Cable Loss – Amplifier Gain) + Switching Box Loss

For frequency between 1GHz to 25GHz

FIa (dBμV/m) = FIr (dBμV) + Correction Factor

FIa :Actual Field Intensity

FIr :Reading of the Field Intensity

Correction Factors = Antenna Factor + (Cable Loss – Amplifier Gain) + Switching Box Loss

5.2 List of Test Instruments

Calibration Date

Instrument Name	Model	Brand	Serial No.	Next time
EMI Receiver	8546A	HP	3520A00242	06/01/06
RF Filter Section	85460A	HP	3448A00217	06/01/06
Small Biconical Antenna	UBAA9114 & BBVU9135	SCHWARZECK	127	08/17/06
Pre-amplifier	PA1F	TRC	1FAC	05/20/06
Auto Switch Box (>30MHz)	ASB-01	TRC	9904-01	05/20/06
Coaxial Cable (Double shielded, 15 meter)	A30A30-0058-50FS-15M	JYEBAO	SMA-01	05/20/06
Coaxial Cable (1.1 meter)	A30A30-0058-50FS-1M	JYEBAO	SMA-02	05/20/06
Spectrum Analyzer	8564E	HP	3720A00840	11/07/06
Microwave Preamplifier	84125C	HP	US36433002	11/07/06
Horn Antenna	3115	EMCO	9104-3668	12/27/05
Standard Guide Horn Antenna	84125-80008	HP	18-26.5GHz	01/15/06
Standard Guide Horn Antenna	84125-80001	HP	26.5-40GHz	01/15/06
Horn Antenna	1196E (3115)	HP (EMCO)	9704-5178	01/11/06
Pre-amplifier	PA2F	TRC	2F1GZ	06/20/06
Coaxial Cable (3 miter)	A30A30-0058-50FST118	JYEBAO	MSA-05	06/20/06
Coaxial Cable (1 meter)	A30A30-0058-50FST118	JYEBAO	MSA-04	06/20/06

5.3 Test Result of Spurious Radiated Emissions

The highest peak values of radiated emissions form the EUT at various antenna heights, antenna polarizations, EUT orientation, etc. are recorded on the following.

Test Conditions: Temperature : 24 ° C Humidity : 70 % RH

Test mode: Standby mode for 30MHz to 1GHz, Antenna#1 [Horizontal]

Radiated Emission				*Correction Factors*	*Corrected Amplitude*	*Class B (3 m)*	
Frequency (MHz)	*Amplitude (dBmV)*	*Ant. H. (m)*	*Table ( )*	*(dB)*	*(dBmV/m)*	*Limit (dBmV/m)*	*Margin (dB)*
302.81	39.14	1.00	183	-8.65	30.49	46.00	-15.51
385.26	37.76	1.00	163	-6.51	31.25	46.00	-14.75
515.00	35.94	1.00	67	-1.47	34.47	46.00	-11.53
601.09	29.98	1.00	42	1.71	31.69	46.00	-14.31
896.94	26.39	1.00	90	6.66	33.05	46.00	-12.95

Test mode: Standby mode for 30MHz to 1GHz, Antenna#1 [Vertical]

Radiated Emission				*Correction Factors*	*Corrected Amplitude*	*Class B (3 m)*	
Frequency (MHz)	*Amplitude (dBmV)*	*Ant. H. (m)*	*Table ( )*	*(dB)*	*(dBmV/m)*	*Limit (dBmV/m)*	*Margin (dB)*
34.85	34.23	1.00	330	-1.51	32.72	40.00	-7.28
38.49	32.77	1.00	0	-2.01	30.76	40.00	-9.24
601.09	31.60	1.00	149	1.71	33.31	46.00	-12.69
700.51	28.29	1.00	187	3.59	31.88	46.00	-14.12
896.94	26.55	1.00	31	6.66	33.21	46.00	-12.79

Note:

1. Margin = Amplitude – limit, *if margin is minus means under limit.*
2. Corrected Amplitude = Reading Amplitude + Correction Factors
3. Correction factor = Antenna factor + (Cable Loss – Amplitude gain) + Switching Box Loss

Test mode: Standby mode for 1GHz to 25GHz, Antenna#1 [Horizontal]

Frequency	*Ant. H.*	*Table*	*Amplitude Peak / Ave.*		*Correction Factor*	*Corrected Amplitude Peak / Ave.*		*Limit Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBmV*		*dB/m*	*dBmV/m*		*dBmV/m*		*dB*
1531.25	1.00	302	39.41	---	0.10	39.51	---	73.96	53.96	-14.45
3500.42	1.00	265	30.74	---	10.40	41.14	---	73.96	53.96	-12.82
6007.92	1.00	195	26.07	---	18.00	44.07	---	73.96	53.96	-9.89
11320.42	1.00	115	25.40	---	21.58	46.98	---	73.96	53.96	-6.98
22820.21	1.00	325	46.49	---	3.67	50.16	---	73.96	53.96	-3.80

Test mode: Standby mode for 1GHz to 25GHz, Antenna#1 [Vertical]

Frequency	*Ant. H.*	*Table*	*Amplitude Peak / Ave.*		*Correction Factor*	*Corrected Amplitude Peak / Ave.*		*Limit Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBmV*		*dB/m*	*dBmV/m*		*dBmV/m*		*dB*
2303.33	1.00	318	31.41	---	5.80	37.21	---	73.96	53.96	-16.75
5221.67	1.00	267	25.91	---	16.11	42.02	---	73.96	53.96	-11.94
7481.25	1.00	32	21.91	---	21.88	43.79	---	73.96	53.96	-10.17
12255.42	1.00	136	26.74	---	20.69	47.43	---	73.96	53.96	-6.53
24541.46	1.00	292	45.82	---	2.44	48.26	---	73.96	53.96	-5.70

Note:

1. Margin = Corrected - Limit.
2. The EUT utilizes a permanently attached antenna. In addition the spurious RF radiated emissions levels do comply with the 20dBc limit both at its bandedges and other spurious emissions.
3. As stated in Section 15.35(b), for any frequencies above 1000MHz, radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. As the results of our test, the peak amplitudes are already below the FCC limit. Thus the average amplitudes of the rest are omitted.

Test mode: IEEE 802.11b CH01 for 30MHz to 1GHz, Antenna#1 [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBmV)	Ant. H. (m)	Table (°)	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
304.02	39.96	1.00	187	-8.63	31.33	46.00	-14.67
387.69	37.56	1.00	167	-6.43	31.13	46.00	-14.87
515.00	35.11	1.00	180	-1.47	33.64	46.00	-12.36
601.09	29.82	1.00	41	1.71	31.53	46.00	-14.47
896.94	26.18	1.00	82	6.66	32.84	46.00	-13.16

Test mode: IEEE 802.11b CH01 for 30MHz to 1GHz, Antenna#1 [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBmV)	Ant. H. (m)	Table (°)	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
32.42	33.72	1.00	47	-0.76	32.96	40.00	-7.04
34.85	33.69	1.00	227	-1.51	32.18	40.00	-7.82
601.09	31.32	1.00	158	1.71	33.03	46.00	-12.97
804.79	27.59	1.00	322	6.57	34.16	46.00	-11.84
896.94	26.55	1.00	24	6.66	33.21	46.00	-12.79

Test mode: IEEE 802.11b CH01 for 1GHz to 25GHz, Antenna#1 [Horizontal]

Frequency	*Ant. H.*	*Table*	*Amplitude Peak / Ave.*		*Correction Factor*	*Corrected Amplitude Peak / Ave.*		*Limit Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBmV*		*dB/m*	*dBmV/m*		*dBmV/m*		*dB*
1608.33	1.00	22	37.17	---	14.20	51.37	---	73.96	53.96	-2.59
2250.00	1.00	207	36.17	---	8.79	44.96	---	73.96	53.96	-9.00
7233.75	1.00	11	36.11	---	10.07	46.18	---	73.96	53.96	-7.78
9650.42	1.00	96	35.61	---	11.47	47.08	---	73.96	53.96	-6.88
12061.04	1.00	351	37.27	---	9.81	47.08	---	73.96	53.96	-6.88

Test mode: IEEE 802.11b CH01 for 1GHz to 25GHz, Antenna#1 [Vertical]

Frequency	*Ant. H.*	*Table*	*Amplitude Peak / Ave.*		*Correction Factor*	*Corrected Amplitude Peak / Ave.*		*Limit Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBmV*		*dB/m*	*dBmV/m*		*dBmV/m*		*dB*
1608.33	1.00	129	35.83	---	14.20	50.03	---	73.96	53.96	-3.93
2310.42	1.00	194	40.67	---	8.96	49.63	---	73.96	53.96	-4.33
2585.42	1.00	119	39.67	---	9.65	49.32	---	73.96	53.96	-4.64
9550.42	1.00	20	35.77	---	11.47	47.24	---	73.96	53.96	-6.72
12061.04	1.00	83	37.27	---	9.81	47.08	---	73.96	53.96	-6.88

Test mode: IEEE 802.11b CH06 for 30MHz to 1GHz, Antenna#1 [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBmV)	Ant. H. (m)	Table (°)	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
302.81	38.91	1.00	193	-8.65	30.26	46.00	-15.74
385.26	37.93	1.00	173	-6.51	31.42	46.00	-14.58
515.00	36.03	1.00	79	-1.47	34.56	46.00	-11.44
601.09	30.30	1.00	48	1.71	32.01	46.00	-13.99
876.33	27.18	1.00	200	6.45	33.63	46.00	-12.37

Test mode: IEEE 802.11b CH06 for 30MHz to 1GHz, Antenna#1 [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBmV)	Ant. H. (m)	Table (°)	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
34.85	35.20	1.00	196	-1.51	33.69	40.00	-6.31
601.09	31.22	1.00	156	1.71	32.93	46.00	-13.07
700.51	28.82	1.00	187	3.59	32.41	46.00	-13.59
804.79	25.09	1.00	277	6.57	31.66	46.00	-14.34
896.94	26.19	1.00	35	6.66	32.85	46.00	-13.15

Test mode: IEEE 802.11b CH06 for 1GHz to 25GHz, Antenna#1 [Horizontal]

Frequency	*Ant. H.*	*Table*	*Amplitude Peak / Ave.*		*Correction Factor*	*Corrected Amplitude Peak / Ave.*		*Limit Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBmV*		*dB/m*	*dBmV/m*		*dBmV/m*		*dB*
1625.00	1.00	222	37.33	---	13.94	51.27	---	73.96	53.96	-2.69
2254.17	1.00	152	36.00	---	8.80	44.80	---	73.96	53.96	-9.16
7312.29	1.00	171	34.77	---	10.30	45.07	---	73.96	53.96	-8.89
9747.08	1.00	108	35.77	---	11.89	47.66	---	73.96	53.96	-6.30
12187.92	1.00	319	40.10	---	9.74	49.84	---	73.96	53.96	-4.12

Test mode: IEEE 802.11b CH06 for 1GHz to 25GHz, Antenna#1 [Vertical]

Frequency	*Ant. H.*	*Table*	*Amplitude Peak / Ave.*		*Correction Factor*	*Corrected Amplitude Peak / Ave.*		*Limit Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBmV*		*dB/m*	*dBmV/m*		*dBmV/m*		*dB*
1625.00	1.00	123	36.50	---	13.94	50.44	---	73.96	53.96	-3.52
2316.67	1.00	360	40.16	---	8.98	49.14	---	73.96	53.96	-4.82
2589.58	1.00	96	39.33	---	9.66	48.99	---	73.96	53.96	-4.97
9747.08	1.00	95	36.10	---	11.89	47.99	---	73.96	53.96	-5.97
12187.92	1.00	351	39.10	---	9.74	48.84	---	73.96	53.96	-5.12

Test mode: IEEE 802.11b CH11 for 30MHz to 1GHz, Antenna#1 [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBmV)	Ant. H. (m)	Table (°)	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
142.76	36.19	1.00	301	-7.93	28.26	43.50	-15.24
302.81	39.26	1.00	195	-8.65	30.61	46.00	-15.39
515.00	35.43	1.00	69	-1.47	33.96	46.00	-12.04
641.10	27.94	1.00	343	3.14	31.08	46.00	-14.92
896.94	26.19	1.00	93	6.66	32.85	46.00	-13.15

Test mode: IEEE 802.11b CH11 for 30MHz to 1GHz, Antenna#1 [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBmV)	Ant. H. (m)	Table (°)	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
32.42	30.36	1.00	3	-0.76	29.60	40.00	-10.40
130.64	34.47	1.00	112	-7.65	26.82	43.50	-16.68
601.09	31.29	1.00	158	1.71	33.00	46.00	-13.00
728.40	31.62	1.00	360	4.05	35.67	46.00	-10.33
896.94	26.03	1.00	10	6.66	32.69	46.00	-13.31

Test mode: IEEE 802.11b CH11 for 1GHz to 25GHz, Antenna#1 [Horizontal]

Frequency	*Ant. H.*	*Table*	*Amplitude Peak / Ave.*		*Correction Factor*	*Corrected Amplitude Peak / Ave.*		*Limit Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBmV*		*dB/m*	*dBmV/m*		*dBmV/m*		*dB*
1641.33	1.00	237	39.82	35.67	13.69	53.51	49.36	73.96	53.96	-4.60
2250.00	1.00	149	35.33	---	8.79	44.12	---	73.96	53.96	-9.84
2541.67	1.00	62	36.00	---	9.57	45.57	---	73.96	53.96	-8.39
9849.79	1.00	23	35.61	---	11.93	47.54	---	73.96	53.96	-6.42
12308.75	1.00	131	38.61	---	9.56	48.17	---	73.96	53.96	-5.79

Test mode: IEEE 802.11b CH11 for 1GHz to 25GHz, Antenna#1 [Vertical]

Frequency	*Ant. H.*	*Table*	*Amplitude Peak / Ave.*		*Correction Factor*	*Corrected Amplitude Peak / Ave.*		*Limit Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBmV*		*dB/m*	*dBmV/m*		*dBmV/m*		*dB*
1641.34	1.00	102	38.82	35.00	13.69	52.51	48.69	73.96	53.96	-5.27
2245.83	1.00	270	39.00	---	8.78	47.78	---	73.96	53.96	-6.18
2933.33	1.00	76	35.00	---	10.30	45.30	---	73.96	53.96	-8.66
9849.79	1.00	41	36.28	---	11.93	48.21	---	73.96	53.96	-5.75
12308.75	1.00	207	38.94	---	9.56	48.50	---	73.96	53.96	-5.46

Test mode: IEEE 802.11g CH01 for 30MHz to 1GHz, Antenna#1 [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBmV)	Ant. H. (m)	Table ( )	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
387.69	37.40	1.00	177	-6.43	30.97	46.00	-15.03
515.00	35.55	1.00	80	-1.47	34.08	46.00	-11.92
601.09	29.82	1.00	52	1.71	31.53	46.00	-14.47
700.51	26.66	1.00	132	3.59	30.25	46.00	-15.75
896.94	26.59	1.00	87	6.66	33.25	46.00	-12.75

Test mode: IEEE 802.11g CH01 for 30MHz to 1GHz, Antenna#1 [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBmV)	Ant. H. (m)	Table ( )	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
36.06	34.33	1.00	17	-1.70	32.63	40.00	-7.37
130.64	34.28	1.00	80	-7.65	26.63	43.50	-16.87
601.09	31.29	1.00	154	1.71	33.00	46.00	-13.00
700.51	30.30	1.00	185	3.59	33.89	46.00	-12.11
896.94	26.98	1.00	14	6.66	33.64	46.00	-12.36

Test mode: IEEE 802.11g CH01 for 1GHz to 25GHz, Antenna#1 [Horizontal]

Frequency	*Ant. H.*	*Table*	*Amplitude*		*Correction Factor*	*Corrected Amplitude*		*Limit*		*Margin*
			Peak / Ave.			*Peak / Ave.*		*Peak / Ave.*		
MHz	*m*	*degree*	*dBmV*		*dB/m*	*dBmV/m*		*dBmV/m*		*dB*
1607.99	1.00	100	38.49	33.00	14.21	52.70	47.21	73.96	53.96	-6.75
2045.83	1.00	325	35.33	---	8.22	43.55	---	73.96	53.96	-10.41
7233.75	1.00	199	35.61	---	10.07	45.68	---	73.96	53.96	-8.28
9650.42	1.00	1	35.94	---	11.47	47.41	---	73.96	53.96	-6.55
12061.04	1.00	341	38.60	---	9.81	48.41	---	73.96	53.96	-5.55

Test mode: IEEE 802.11g CH01 for 1GHz to 25GHz, Antenna#1 [Vertical]

Frequency	*Ant. H.*	*Table*	*Amplitude*		*Correction Factor*	*Corrected Amplitude*		*Limit*		*Margin*
			Peak / Ave.			*Peak / Ave.*		*Peak / Ave.*		
MHz	*m*	*degree*	*dBmV*		*dB/m*	*dBmV/m*		*dBmV/m*		*dB*
1608.00	1.00	301	36.82	30.67	14.21	51.03	44.88	73.96	53.96	-9.08
2083.33	1.00	197	35.17	---	8.32	43.49	---	73.96	53.96	-10.47
7233.75	1.00	160	36.44	---	10.07	46.51	---	73.96	53.96	-7.45
9650.42	1.00	283	35.94	---	11.47	47.41	---	73.96	53.96	-6.55
12061.04	1.00	310	37.60	---	9.81	47.41	---	73.96	53.96	-6.55

Test mode: IEEE 802.11g CH06 for 30MHz to 1GHz, Antenna#1 [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBmV)	Ant. H. (m)	Table ( )	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
304.02	39.38	1.00	192	-8.63	30.75	46.00	-15.25
387.69	37.22	1.00	10	-6.43	30.79	46.00	-15.21
515.00	34.92	1.00	66	-1.47	33.45	46.00	-12.55
641.10	28.19	1.00	350	3.14	31.33	46.00	-14.67
896.94	26.89	1.00	73	6.66	33.55	46.00	-12.45

Test mode: IEEE 802.11g CH06 for 30MHz to 1GHz, Antenna#1 [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBmV)	Ant. H. (m)	Table ( )	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
34.85	33.43	1.00	320	-1.51	31.92	40.00	-8.08
601.09	31.36	1.00	154	1.71	33.07	46.00	-12.93
700.51	28.46	1.00	185	3.59	32.05	46.00	-13.95
804.79	25.76	1.00	41	6.57	32.33	46.00	-13.67
896.94	26.71	1.00	34	6.66	33.37	46.00	-12.63

Test mode: IEEE 802.11g CH06 for 1GHz to 25GHz, Antenna#1 [Horizontal]

Frequency	*Ant. H.*	*Table*	*Amplitude Peak / Ave.*		*Correction Factor*	*Corrected Amplitude Peak / Ave.*		*Limit Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBmV*		*dB/m*	*dBmV/m*		*dBmV/m*		*dB*
1624.66	1.00	197	37.49	32.17	13.95	51.44	46.12	73.96	53.96	-7.84
7312.29	1.00	200	35.77	---	10.30	46.07	---	73.96	53.96	-7.89
9747.08	1.00	119	35.94	---	11.89	47.83	---	73.96	53.96	-6.13
12187.92	1.00	27	39.60	---	9.74	49.34	---	73.96	53.96	-4.62
24371.46	1.00	45	47.09	---	3.26	50.35	---	73.96	53.96	-3.61

Test mode: IEEE 802.11g CH06 for 1GHz to 25GHz, Antenna#1 [Vertical]

Frequency	*Ant. H.*	*Table*	*Amplitude Peak / Ave.*		*Correction Factor*	*Corrected Amplitude Peak / Ave.*		*Limit Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBmV*		*dB/m*	*dBmV/m*		*dBmV/m*		*dB*
1624.68	1.00	307	37.49	---	13.95	51.44	44.45	73.96	53.96	-9.51
2047.92	1.00	293	35.34	---	8.22	43.56	---	73.96	53.96	-10.40
7312.29	1.00	6	35.11	---	10.30	45.41	---	73.96	53.96	-8.55
9747.08	1.00	15	35.60	---	11.89	47.49	---	73.96	53.96	-6.47
12187.92	1.00	310	38.77	---	9.74	48.51	---	73.96	53.96	-5.45

Test mode: IEEE 802.11g CH11 for 30MHz to 1GHz, Antenna#1 [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBmV)	Ant. H. (m)	Table ( )	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
304.02	39.14	1.00	183	-8.63	30.51	46.00	-15.49
386.47	37.42	1.00	164	-6.47	30.95	46.00	-15.05
515.00	34.59	1.00	167	-1.47	33.12	46.00	-12.88
601.09	30.47	1.00	38	1.71	32.18	46.00	-13.82
876.33	28.20	1.00	202	6.45	34.65	46.00	-11.35

Test mode: IEEE 802.11g CH11 for 30MHz to 1GHz, Antenna#1 [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBmV)	Ant. H. (m)	Table ( )	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
38.49	32.68	1.00	175	-2.01	30.67	40.00	-9.33
601.09	31.50	1.00	69	1.71	33.21	46.00	-12.79
700.51	29.19	1.00	185	3.59	32.78	46.00	-13.22
804.79	24.58	1.00	123	6.57	31.15	46.00	-14.85
896.94	26.96	1.00	34	6.66	33.62	46.00	-12.38

Test mode: IEEE 802.11g CH11 for 1GHz to 25GHz, Antenna#1 [Horizontal]

Frequency	*Ant. H.*	*Table*	*Amplitude*		*Correction Factor*	*Corrected Amplitude*		*Limit*		*Margin*
			Peak / Ave.			*Peak / Ave.*		*Peak / Ave.*		
MHz	*m*	*degree*	*dBmV*		*dB/m*	*dBmV/m*		*dBmV/m*		*dB*
1641.33	1.00	225	37.66	32.00	13.69	51.35	45.69	73.96	53.96	-8.27
2047.92	1.00	321	36.00	---	8.22	44.22	---	73.96	53.96	-9.74
9849.79	1.00	99	35.11	---	11.93	47.04	---	73.96	53.96	-6.92
12308.75	1.00	333	37.77	---	9.56	47.33	---	73.96	53.96	-6.63
24619.37	1.00	272	46.83	---	3.01	49.84	---	73.96	53.96	-4.12

Test mode: IEEE 802.11g CH11 for 1GHz to 25GHz, Antenna#1 [Vertical]

Frequency	*Ant. H.*	*Table*	*Amplitude*		*Correction Factor*	*Corrected Amplitude*		*Limit*		*Margin*
			Peak / Ave.			*Peak / Ave.*		*Peak / Ave.*		
MHz	*m*	*degree*	*dBmV*		*dB/m*	*dBmV/m*		*dBmV/m*		*dB*
1641.32	1.00	47	38.49	31.67	13.69	52.18	45.36	73.96	53.96	-8.60
2047.92	1.00	175	34.84	---	8.22	43.06	---	73.96	53.96	-10.90
7384.79	1.00	233	34.11	---	10.42	44.53	---	73.96	53.96	-9.43
9849.79	1.00	175	35.28	---	11.93	47.21	---	73.96	53.96	-6.75
12308.75	1.00	295	36.94	---	9.56	46.50	---	73.96	53.96	-7.46

Test mode: Standby mode for 30MHz to 1GHz, Antenna#2 [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBmV)	Ant. H. (m)	Table ( )	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
302.81	39.14	1.00	187	-8.65	30.49	46.00	-15.51
387.69	40.00	1.00	187	-6.43	33.57	46.00	-12.43
515.00	35.22	1.00	170	-1.47	33.75	46.00	-12.25
601.09	29.49	1.00	202	1.71	31.20	46.00	-14.80
876.33	27.29	1.00	106	6.45	33.74	46.00	-12.26

Test mode: Standby mode for 30MHz to 1GHz, Antenna#2 [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBmV)	Ant. H. (m)	Table ( )	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
32.42	32.71	1.00	69	-0.76	31.95	40.00	-8.05
129.43	35.32	1.00	111	-7.61	27.71	43.50	-15.79
601.09	28.53	1.00	156	1.71	30.24	46.00	-15.76
700.51	28.16	1.00	187	3.59	31.75	46.00	-14.25
896.94	26.73	1.00	350	6.66	33.39	46.00	-12.61

Test mode: Standby mode for 1GHz to 25GHz, Antenna#2 [Horizontal]

Frequency	*Ant. H.*	*Table*	*Amplitude* *Peak / Ave.*		*Correction Factor*	*Corrected Amplitude* *Peak / Ave.*		*Limit* *Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBmV*		*dB/m*	*dBmV/m*		*dBmV/m*		*dB*
1531.25	1.00	253	37.07	---	0.10	37.17	---	73.96	53.96	-16.79
3174.58	1.00	38	30.24	---	9.58	39.82	---	73.96	53.96	-14.14
6170.83	1.00	160	25.57	---	18.26	43.83	---	73.96	53.96	-10.13
11377.08	1.00	156	26.41	---	21.31	47.72	---	73.96	53.96	-6.24

Test mode: Standby mode for 1GHz to 25GHz, Antenna#2 [Vertical]

Frequency	*Ant. H.*	*Table*	*Amplitude* *Peak / Ave.*		*Correction Factor*	*Corrected Amplitude* *Peak / Ave.*		*Limit* *Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBmV*		*dB/m*	*dBmV/m*		*dBmV/m*		*dB*
1991.67	1.00	253	33.41	---	4.19	37.60	---	73.96	53.96	-16.36
4251.25	1.00	229	29.57	---	12.90	42.47	---	73.96	53.96	-11.49
8012.50	1.00	231	26.41	---	22.43	48.84	---	73.96	53.96	-5.12
10775.00	1.00	356	24.91	---	22.02	46.93	---	73.96	53.96	-7.03
21343.33	1.00	279	45.32	---	2.65	47.97	---	73.96	53.96	-5.99

Test mode: IEEE 802.11b CH01 for 30MHz to 1GHz, Antenna#2 [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBmV)	Ant. H. (m)	Table (°)	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
99.11	31.65	1.00	233	-9.15	22.50	43.50	-21.00
302.81	38.96	1.00	187	-8.65	30.31	46.00	-15.69
387.69	38.68	1.00	167	-6.43	32.25	46.00	-13.75
515.00	35.62	1.00	180	-1.47	34.15	46.00	-11.85
896.94	27.17	1.00	97	6.66	33.83	46.00	-12.17

Test mode: IEEE 802.11b CH01 for 30MHz to 1GHz, Antenna#2 [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBmV)	Ant. H. (m)	Table (°)	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
31.21	31.79	1.00	96	-0.38	31.41	40.00	-8.59
130.64	35.22	1.00	79	-7.65	27.57	43.50	-15.93
170.65	33.06	1.00	50	-8.79	24.27	43.50	-19.23
259.16	36.70	1.00	119	-9.20	27.50	46.00	-18.50
403.45	31.33	1.00	132	-5.86	25.47	46.00	-20.53

Test mode: IEEE 802.11b CH01 for 1GHz to 25GHz, Antenna#2 [Horizontal]

Frequency	*Ant. H.*	*Table*	*Amplitude Peak / Ave.*		*Correction Factor*	*Corrected Amplitude Peak / Ave.*		*Limit Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBmV*		*dB/m*	*dBmV/m*		*dBmV/m*		*dB*
1608.33	1.00	187	36.50	---	14.20	50.70	---	73.96	53.96	-3.26
2497.92	1.00	152	36.84	---	9.48	46.32	---	73.96	53.96	-7.64
4823.12	1.00	172	38.77	---	3.76	42.53	---	73.96	53.96	-11.43
9650.42	1.00	27	36.94	---	11.47	48.41	---	73.96	53.96	-5.55
19296.25	1.00	173	47.57	---	1.60	49.17	---	73.96	53.96	-4.79

Test mode: IEEE 802.11b CH01 for 1GHz to 25GHz, Antenna#2 [Vertical]

Frequency	*Ant. H.*	*Table*	*Amplitude Peak / Ave.*		*Correction Factor*	*Corrected Amplitude Peak / Ave.*		*Limit Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBmV*		*dB/m*	*dBmV/m*		*dBmV/m*		*dB*
1607.98	1.00	294	38.49	32.33	14.21	52.70	46.54	73.96	53.96	-7.42
2254.17	1.00	360	37.17	---	8.80	45.97	---	73.96	53.96	-7.99
2479.17	1.00	103	39.33	---	9.43	48.76	---	73.96	53.96	-5.20
7233.75	1.00	183	35.44	---	10.07	45.51	---	73.96	53.96	-8.45
9650.42	1.00	179	35.77	---	11.47	47.24	---	73.96	53.96	-6.72

Test mode: IEEE 802.11b CH06 for 30MHz to 1GHz, Antenna#2 [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBmV)	Ant. H. (m)	Table ( )	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
304.02	39.70	1.00	185	-8.63	31.07	46.00	-14.93
386.47	38.37	1.00	175	-6.47	31.90	46.00	-14.10
515.00	35.66	1.00	178	-1.47	34.19	46.00	-11.81
641.10	28.35	1.00	319	3.14	31.49	46.00	-14.51
896.94	26.19	1.00	93	6.66	32.85	46.00	-13.15

Test mode: IEEE 802.11b CH06 for 30MHz to 1GHz, Antenna#2 [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBmV)	Ant. H. (m)	Table ( )	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
36.06	34.31	1.00	270	-1.70	32.61	40.00	-7.39
129.43	34.60	1.00	63	-7.61	26.99	43.50	-16.51
601.09	28.25	1.00	62	1.71	29.96	46.00	-16.04
700.51	27.98	1.00	305	3.59	31.57	46.00	-14.43
896.94	26.84	1.00	27	6.66	33.50	46.00	-12.50

Test mode: IEEE 802.11b CH06 for 1GHz to 25GHz, Antenna#2 [Horizontal]

Frequency	*Ant. H.*	*Table*	*Amplitude*		*Correction Factor*	*Corrected Amplitude*		*Limit*		*Margin*
			Peak / Ave.			*Peak / Ave.*		*Peak / Ave.*		
MHz	*m*	*degree*	*dBmV*		*dB/m*	*dBmV/m*		*dBmV/m*		*dB*
1625.00	1.00	235	37.50	---	13.94	51.44	---	73.96	53.96	-2.52
3014.58	1.00	48	35.83	---	10.50	46.33	---	73.96	53.96	-7.63
7312.29	1.00	243	34.77	---	10.30	45.07	---	73.96	53.96	-8.89
9747.08	1.00	116	36.44	---	11.89	48.33	---	73.96	53.96	-5.63
12187.92	1.00	341	38.60	---	9.74	48.34	---	73.96	53.96	-5.62

Test mode: IEEE 802.11b CH06 for 1GHz to 25GHz, Antenna#2 [Vertical]

Frequency	*Ant. H.*	*Table*	*Amplitude*		*Correction Factor*	*Corrected Amplitude*		*Limit*		*Margin*
			Peak / Ave.			*Peak / Ave.*		*Peak / Ave.*		
MHz	*m*	*degree*	*dBmV*		*dB/m*	*dBmV/m*		*dBmV/m*		*dB*
1625.00	1.00	100	37.50	---	13.94	51.44	---	73.96	53.96	-2.52
2622.92	1.00	132	37.17	---	9.72	46.89	---	73.96	53.96	-7.07
9747.08	1.00	56	36.10	---	11.89	47.99	---	73.96	53.96	-5.97
12187.92	1.00	218	39.77	---	9.74	49.51	---	73.96	53.96	-4.45
24371.46	1.00	41	47.07	---	3.26	50.33	---	73.96	53.96	-3.63

Test mode: IEEE 802.11b CH11 for 30MHz to 1GHz, Antenna#2 [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBmV)	Ant. H. (m)	Table ( )	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
259.16	40.22	1.00	143	-9.20	31.02	46.00	-14.98
386.47	38.75	1.00	177	-6.47	32.28	46.00	-13.72
515.00	36.38	1.00	80	-1.47	34.91	46.00	-11.09
601.09	30.35	1.00	202	1.71	32.06	46.00	-13.94
896.94	27.81	1.00	86	6.66	34.47	46.00	-11.53

Test mode: IEEE 802.11b CH11 for 30MHz to 1GHz, Antenna#2 [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBmV)	Ant. H. (m)	Table ( )	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
37.27	34.49	1.00	177	-1.86	32.63	40.00	-7.37
130.64	34.56	1.00	80	-7.65	26.91	43.50	-16.59
601.09	29.33	1.00	52	1.71	31.04	46.00	-14.96
700.51	27.42	1.00	187	3.59	31.01	46.00	-14.99
896.94	25.91	1.00	14	6.66	32.57	46.00	-13.43

Test mode: IEEE 802.11b CH11 for 1GHz to 25GHz, Antenna#2 [Horizontal]

Frequency	*Ant. H.*	*Table*	*Amplitude Peak / Ave.*		*Correction Factor*	*Corrected Amplitude Peak / Ave.*		*Limit Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBmV*		*dB/m*	*dBmV/m*		*dBmV/m*		*dB*
1641.34	1.00	265	38.99	35.33	13.69	52.68	49.02	73.96	53.96	-4.94
2093.75	1.00	355	35.00	---	8.35	43.35	---	73.96	53.96	-10.61
2791.67	1.00	77	34.83	---	10.04	44.87	---	73.96	53.96	-9.09
12308.75	1.00	334	37.61	---	9.56	47.17	---	73.96	53.96	-6.79
19696.46	1.00	23	47.65	---	1.81	49.46	---	73.96	53.96	-4.50

Test mode: IEEE 802.11b CH11 for 1GHz to 25GHz, Antenna#2 [Vertical]

Frequency	*Ant. H.*	*Table*	*Amplitude Peak / Ave.*		*Correction Factor*	*Corrected Amplitude Peak / Ave.*		*Limit Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBmV*		*dB/m*	*dBmV/m*		*dBmV/m*		*dB*
1641.33	1.00	132	38.49	34.50	13.69	52.18	48.19	73.96	53.96	-5.77
2154.17	1.00	340	36.34	---	8.52	44.86	---	73.96	53.96	-9.10
2610.42	1.00	119	37.83	---	9.70	47.53	---	73.96	53.96	-6.43
9849.79	1.00	130	35.44	---	11.93	47.37	---	73.96	53.96	-6.59
12308.75	1.00	152	39.11	---	9.56	48.67	---	73.96	53.96	-5.29

Test mode: IEEE 802.11g CH01 for 30MHz to 1GHz, Antenna#2 [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBmV)	Ant. H. (m)	Table (°)	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
387.69	38.91	1.00	165	-6.43	32.48	46.00	-13.52
515.00	35.82	1.00	79	-1.47	34.35	46.00	-11.65
641.10	27.67	1.00	24	3.14	30.81	46.00	-15.19
801.15	25.18	1.00	154	6.60	31.78	46.00	-14.22
896.94	26.80	1.00	89	6.66	33.46	46.00	-12.54

Test mode: IEEE 802.11g CH01 for 30MHz to 1GHz, Antenna#2 [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBmV)	Ant. H. (m)	Table (°)	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
130.64	34.96	1.00	92	-7.65	27.31	43.50	-16.19
257.95	36.86	1.00	122	-9.18	27.68	46.00	-18.32
601.09	29.72	1.00	151	1.71	31.43	46.00	-14.57
700.51	26.87	1.00	305	3.59	30.46	46.00	-15.54
896.94	27.29	1.00	350	6.66	33.95	46.00	-12.05

Test mode: IEEE 802.11g CH01 for 1GHz to 25GHz, Antenna#2 [Horizontal]

Frequency	*Ant. H.*	*Table*	*Amplitude* *Peak / Ave.*		*Correction Factor*	*Corrected Amplitude* *Peak / Ave.*		*Limit* *Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBmV*		*dB/m*	*dBmV/m*		*dBmV/m*		*dB*
1608.01	1.00	123	39.32	35.00	14.21	53.53	49.21	73.96	53.96	-4.75
2045.83	1.00	350	35.33	---	8.22	43.55	---	73.96	53.96	-10.41
9650.42	1.00	45	35.61	---	11.47	47.08	---	73.96	53.96	-6.88
12061.04	1.00	74	36.94	---	9.81	46.75	---	73.96	53.96	-7.21

Test mode: IEEE 802.11g CH01 for 1GHz to 25GHz, Antenna#2 [Vertical]

Frequency	*Ant. H.*	*Table*	*Amplitude* *Peak / Ave.*		*Correction Factor*	*Corrected Amplitude* *Peak / Ave.*		*Limit* *Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBmV*		*dB/m*	*dBmV/m*		*dBmV/m*		*dB*
1607.99	1.00	308	39.16	33.33	14.21	53.37	47.54	73.96	53.96	-6.42
2047.92	1.00	305	36.34	---	8.22	44.56	---	73.96	53.96	-9.40
7233.75	1.00	219	36.44	---	10.07	46.51	---	73.96	53.96	-7.45
9650.42	1.00	137	36.44	---	11.47	47.91	---	73.96	53.96	-6.05

Test mode: IEEE 802.11g CH06 for 30MHz to 1GHz, Antenna#2 [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBmV)	Ant. H. (m)	Table (°)	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
304.02	39.56	1.00	187	-8.63	30.93	46.00	-15.07
387.69	38.31	1.00	167	-6.43	31.88	46.00	-14.12
515.00	36.31	1.00	70	-1.47	34.84	46.00	-11.16
641.10	27.96	1.00	350	3.14	31.10	46.00	-14.90
876.33	26.15	1.00	104	6.45	32.60	46.00	-13.40

Test mode: IEEE 802.11g CH06 for 30MHz to 1GHz, Antenna#2 [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBmV)	Ant. H. (m)	Table (°)	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
34.85	32.03	1.00	178	-1.51	30.52	40.00	-9.48
130.64	34.73	1.00	92	-7.65	27.08	43.50	-16.42
601.09	28.49	1.00	158	1.71	30.20	46.00	-15.80
700.51	28.00	1.00	302	3.59	31.59	46.00	-14.41
896.94	26.36	1.00	353	6.66	33.02	46.00	-12.98

Test mode: IEEE 802.11g CH06 for 1GHz to 25GHz, Antenna#2 [Horizontal]

Frequency	*Ant. H.*	*Table*	*Amplitude Peak / Ave.*		*Correction Factor*	*Corrected Amplitude Peak / Ave.*		*Limit Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBmV*		*dB/m*	*dBmV/m*		*dBmV/m*		*dB*
1624.66	1.00	349	39.16	34.17	13.95	53.11	48.12	73.96	53.96	-5.84
2054.17	1.00	71	35.84	---	8.24	44.08	---	73.96	53.96	-9.88
9747.08	1.00	97	35.94	---	11.89	47.83	---	73.96	53.96	-6.13
12187.92	1.00	50	38.60	---	9.74	48.34	---	73.96	53.96	-5.62

Test mode: IEEE 802.11g CH06 for 1GHz to 25GHz, Antenna#2 [Vertical]

Frequency	*Ant. H.*	*Table*	*Amplitude Peak / Ave.*		*Correction Factor*	*Corrected Amplitude Peak / Ave.*		*Limit Peak / Ave.*		*Margin*
MHz	*m*	*degree*	*dBmV*		*dB/m*	*dBmV/m*		*dBmV/m*		*dB*
1624.67	1.00	305	38.16	32.17	13.95	52.11	46.12	73.96	53.96	-7.84
2047.92	1.00	305	35.00	---	8.22	43.22	---	73.96	53.96	-10.74
12187.92	1.00	145	40.27	---	9.74	50.01	---	73.96	53.96	-3.95
24371.46	1.00	34	47.13	---	3.26	50.39	---	73.96	53.96	-3.57

Test mode: IEEE 802.11g CH11 for 30MHz to 1GHz, Antenna#2 [Horizontal]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBmV)	Ant. H. (m)	Table ( )	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
302.81	38.65	1.00	197	-8.65	30.00	46.00	-16.00
387.69	38.91	1.00	167	-6.43	32.48	46.00	-13.52
515.00	34.17	1.00	50	-1.47	32.70	46.00	-13.30
601.09	30.14	1.00	199	1.71	31.85	46.00	-14.15
896.94	26.80	1.00	82	6.66	33.46	46.00	-12.54

Test mode: IEEE 802.11g CH11 for 30MHz to 1GHz, Antenna#2 [Vertical]

Radiated Emission				Correction Factors	Corrected Amplitude	Class B (3 m)	
Frequency (MHz)	Amplitude (dBmV)	Ant. H. (m)	Table ( )	(dB)	(dBmV/m)	Limit (dBmV/m)	Margin (dB)
36.06	35.05	1.00	218	-1.70	33.35	40.00	-6.65
130.64	34.54	1.00	92	-7.65	26.89	43.50	-16.61
601.09	28.49	1.00	165	1.71	30.20	46.00	-15.80
700.51	27.14	1.00	309	3.59	30.73	46.00	-15.27
896.94	26.15	1.00	10	6.66	32.81	46.00	-13.19

Test mode: IEEE 802.11g CH11 for 1GHz to 25GHz, Antenna#2 [Horizontal]

Frequency	*Ant. H.*	*Table*	*Amplitude*		*Correction Factor*	*Corrected Amplitude*		*Limit*		*Margin*
			Peak / Ave.			*Peak / Ave.*		*Peak / Ave.*		
MHz	*m*	*degree*	*dBmV*		*dB/m*	*dBmV/m*		*dBmV/m*		*dB*
1641.34	1.00	354	38.32	34.00	13.69	52.01	47.69	73.96	53.96	-6.27
2047.92	1.00	324	34.50	---	8.22	42.72	---	73.96	53.96	-11.24
9849.79	1.00	223	36.11	---	11.93	48.04	---	73.96	53.96	-5.92
12308.75	1.00	247	37.61	---	9.56	47.17	---	73.96	53.96	-6.79
19696.46	1.00	120	47.33	---	1.81	49.14	---	73.96	53.96	-4.82

Test mode: IEEE 802.11g CH11 for 1GHz to 25GHz, Antenna#2 [Vertical]

Frequency	*Ant. H.*	*Table*	*Amplitude*		*Correction Factor*	*Corrected Amplitude*		*Limit*		*Margin*
			Peak / Ave.			*Peak / Ave.*		*Peak / Ave.*		
MHz	*m*	*degree*	*dBmV*		*dB/m*	*dBmV/m*		*dBmV/m*		*dB*
1641.32	1.00	306	39.66	33.50	13.69	53.35	47.19	73.96	53.96	-6.77
2045.83	1.00	301	35.83	---	8.22	44.05	---	73.96	53.96	-9.91
9849.79	1.00	73	35.11	---	11.93	47.04	---	73.96	53.96	-6.92
12308.75	1.00	185	37.44	---	9.56	47.00	---	73.96	53.96	-6.96

5.4 Test Result of the Bandedge

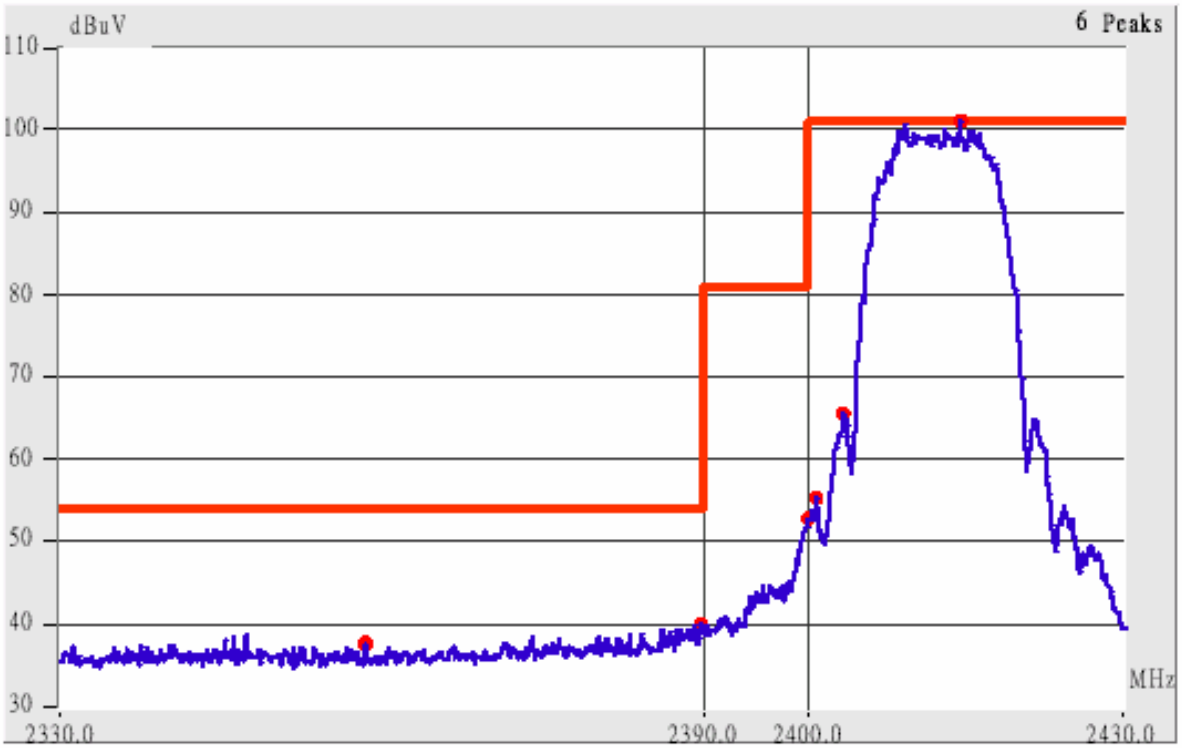
If any 100 kHz bandwidth outside these frequency bands, the radio frequency power that is produced by the modulation products of the spreading sequence, the information sequence and the carrier frequency shall be either *at least 20 dB below that in any 100 kHz bandwidth within the band that contains the highest level of the desired power or shall not exceed the general levels specified id §15.209(a),*

We perform this section by the *radiated manner*, the RBW is set to 100kHz and VBW>RBW. We' d made the observation *up to 10th harmonics and the criterion is all the harmonic/spurious emissions must be 20dB below the highest emission level measured.* If the emissions fall in the restricted bands stated in the Part15.205(a) must also *comply with the radiated emission limits specified in Part15.209(a). (Peak mode: RBW=VBW=1MHz, Average mode: RBW=1MHz; VBW=10Hz)*

The following pages show our observations referring to the channel 1 and 11 respectively.

Test Condition & Setup: same as < 5.1 >

Channel 1 of IEEE 802.11b, Antenna#1

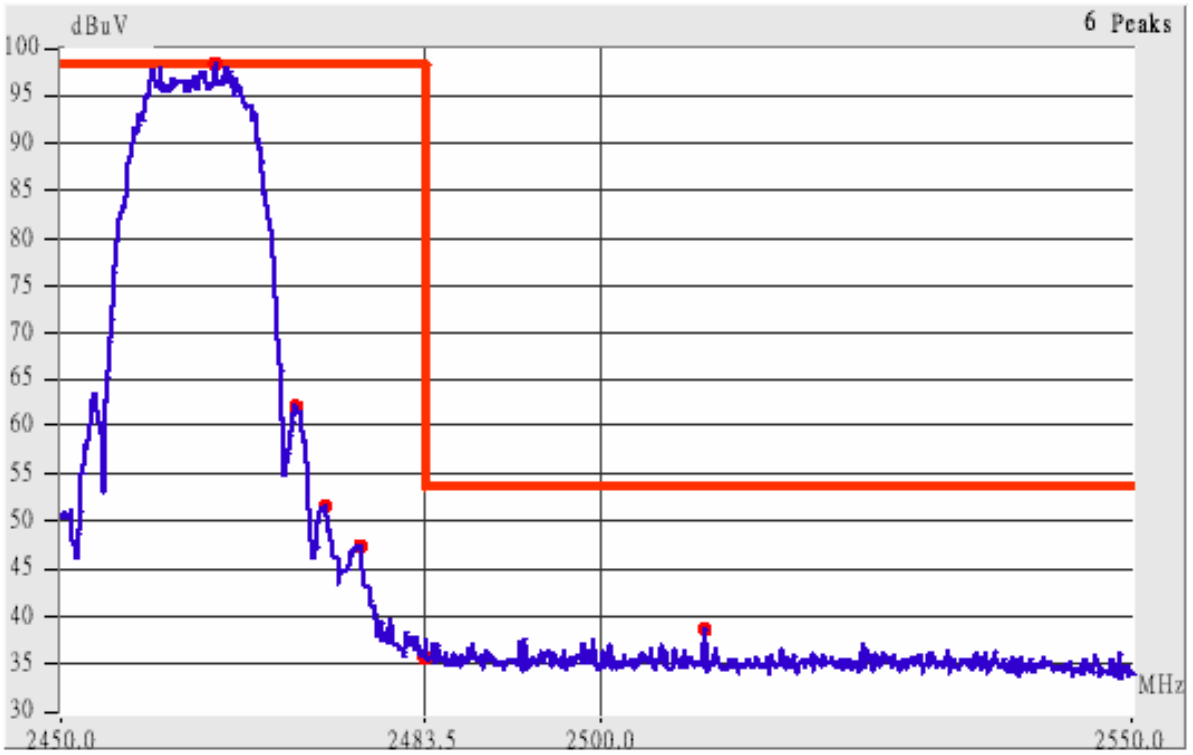


This is the hard copy of our bandedge measurement generated by our bandedge testing program. The plot shown above is the bandedge of channel 1.

1. The lobe left by the fundamental side is already 20dB below the highest emission level.
2. The emissions recorded in the restricted band is do comply with the Part 15.209(a) – as below.

Radiated Emission					*Corrected Amplitude (dBμV/m)*		*Class B (3m)*		
Frequency (MHz)	*Ant. P.*	*Ant. H. (m)*	*Table ( )*	*Factors (dB)*	*Peak*	*Average*	*Limit (dBμV/m) Peak*	*Ave.*	*Margin (dB)*
2347.39	Hor	1.00	157	9.06	45.06	---	73.96	53.96	-8.90
2390.02	Hor	1.00	48	9.18	45.02	---	73.96	53.96	-8.94
2365.32	Ver	1.00	125	9.11	49.61	---	73.96	53.96	-4.35
2381.62	Ver	1.00	132	9.16	49.99	---	73.96	53.96	-3.97
2390.02	Ver	1.00	158	9.18	50.85	---	73.96	53.96	-3.11

Channel 11 of IEEE 802.11b, Antenna#1

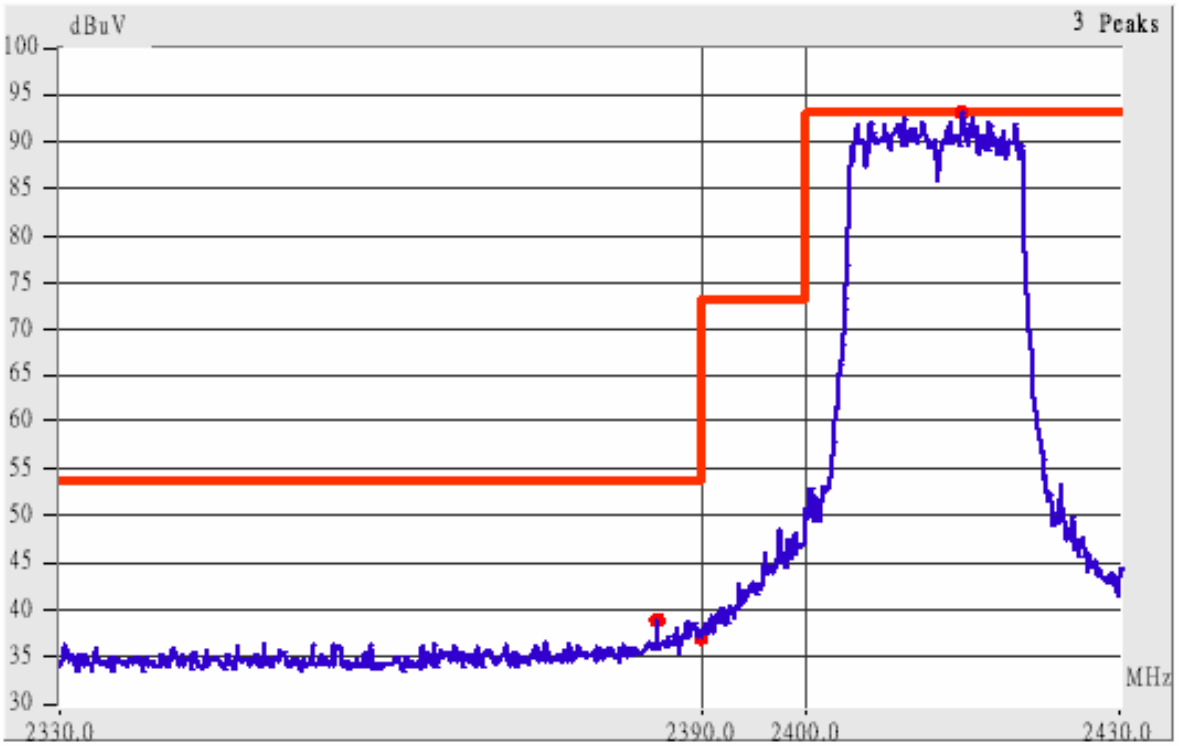


This is the hard copy of our bandedge measurement generated by our bandedge testing program. The plot shown above is the bandedge of channel 11.

3. The lobe right by the fundamental side is already 20dB below the highest emission level.
4. The emissions recorded in the restricted band is do comply with the Part 15.209(a) – as below

Radiated Emission					*Corrected Amplitude (dBμV/m)*		*Class B (3m)*		
Frequency (MHz)	*Ant. P.*	*Ant. H. (m)*	*Table ( )*	*Factors (dB)*	*Peak*	*Average*	*Limit (dBμV/m) Peak*	*Ave.*	*Margin (dB)*
2493.82	Hor	1.00	209	9.47	44.81	---	73.96	53.96	-9.15
2518.32	Hor	1.00	29	9.52	44.86	---	73.96	53.96	-9.10
2483.50	Ver	1.00	300	9.44	50.78	---	73.96	53.96	-3.18
2486.12	Ver	1.00	300	9.45	51.45	---	73.96	53.96	-2.51
2500.01	Ver	1.00	225	9.49	47.32	---	73.96	53.96	-6.64
2507.36	Ver	1.00	243	9.50	49.84	---	73.96	53.96	-4.12

Channel 1 of IEEE 802.11g, Antenna#1

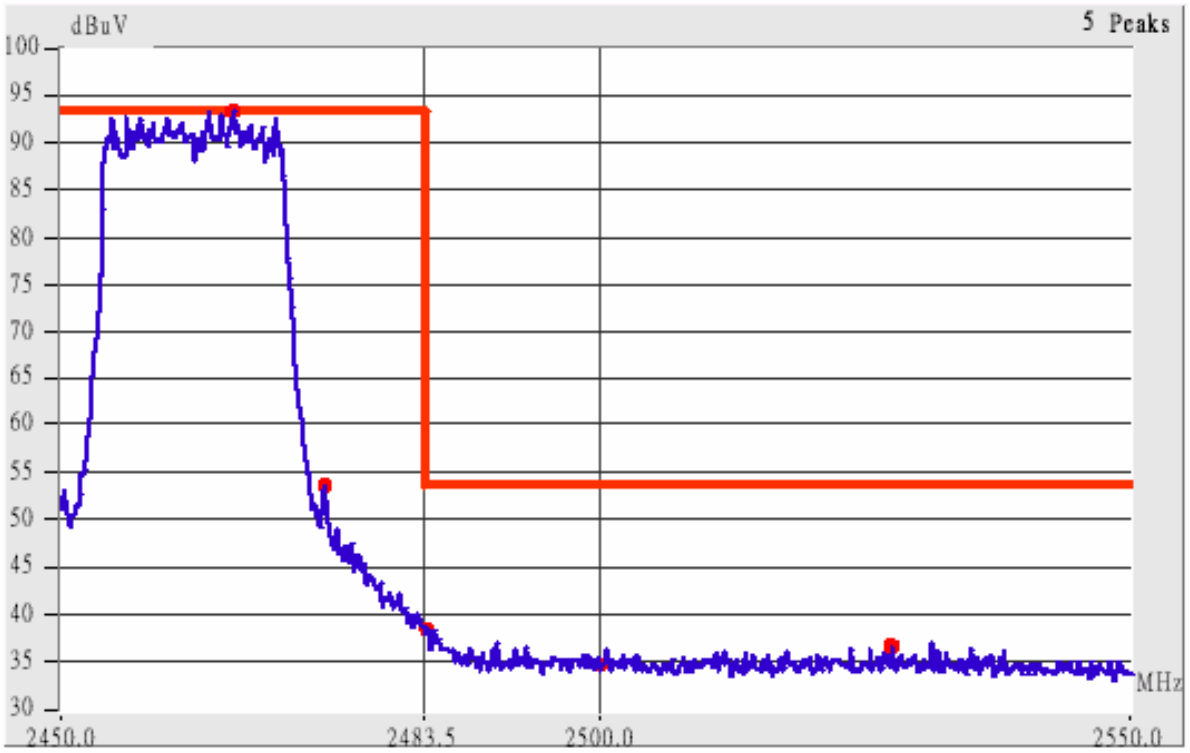


This is the hard copy of our bandedge measurement generated by our bandedge testing program. The plot shown above is the bandedge of channel 1.

5. The lobe left by the fundamental side is already 20dB below the highest emission level.
6. The emissions recorded in the restricted band is do comply with the Part 15.209(a) – as below.

Radiated Emission					*Corrected Amplitude (dBμV/m)*		*Class B (3m)*		
Frequency (MHz)	*Ant. P.*	*Ant. H. (m)*	*Table ( )*	*Factors (dB)*	*Peak*	*Average*	*Limit (dBμV/m) Peak*	*Ave.*	*Margin (dB)*
2484.22	Hor	1.00	112	9.17	44.67	---	73.96	53.96	-9.29
2390.02	Hor	1.00	268	9.18	43.52	---	73.96	53.96	-10.44
2387.15	Ver	1.00	301	9.17	49.01	---	73.96	53.96	-4.95
2390.02	Ver	1.00	146	9.18	48.85	---	73.96	53.96	-5.11

Channel 11 of IEEE 802.11g, Antenna#1

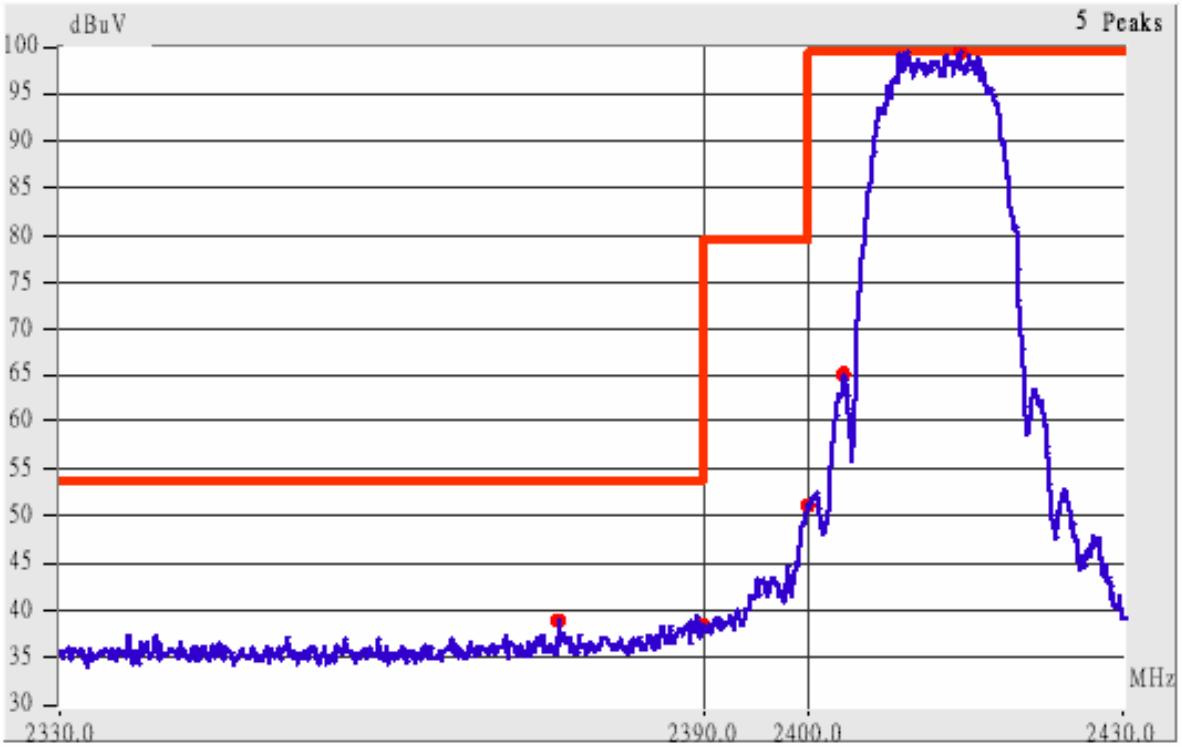


This is the hard copy of our bandedge measurement generated by our bandedge testing program. The plot shown above is the bandedge of channel 11.

7. The lobe right by the fundamental side is already 20dB below the highest emission level.
8. The emissions recorded in the restricted band is do comply with the Part 15.209(a) – as below

Radiated Emission					*Corrected Amplitude (dBμV/m)*		*Class B (3m)*		
Frequency (MHz)	*Ant. P.*	*Ant. H. (m)*	*Table ( )*	*Factors (dB)*	*Peak*	*Average*	*Limit (dBμV/m) Peak*	*Ave.*	*Margin (dB)*
2484.72	Hor	1.00	334	9.45	44.95	---	73.96	53.96	-9.01
2520.37	Hor	1.00	247	9.53	45.03	---	73.96	53.96	-8.93
2483.50	Ver	1.00	123	9.44	50.11	---	73.96	53.96	-3.85
2483.91	Ver	1.00	280	9.44	49.11	---	73.96	53.96	-4.85
2500.01	Ver	1.00	255	9.49	45.32	---	73.96	53.96	-8.64
2514.77	Ver	1.00	339	9.52	47.02	---	73.96	53.96	-6.94

Channel 1 of IEEE 802.11b, Antenna#2



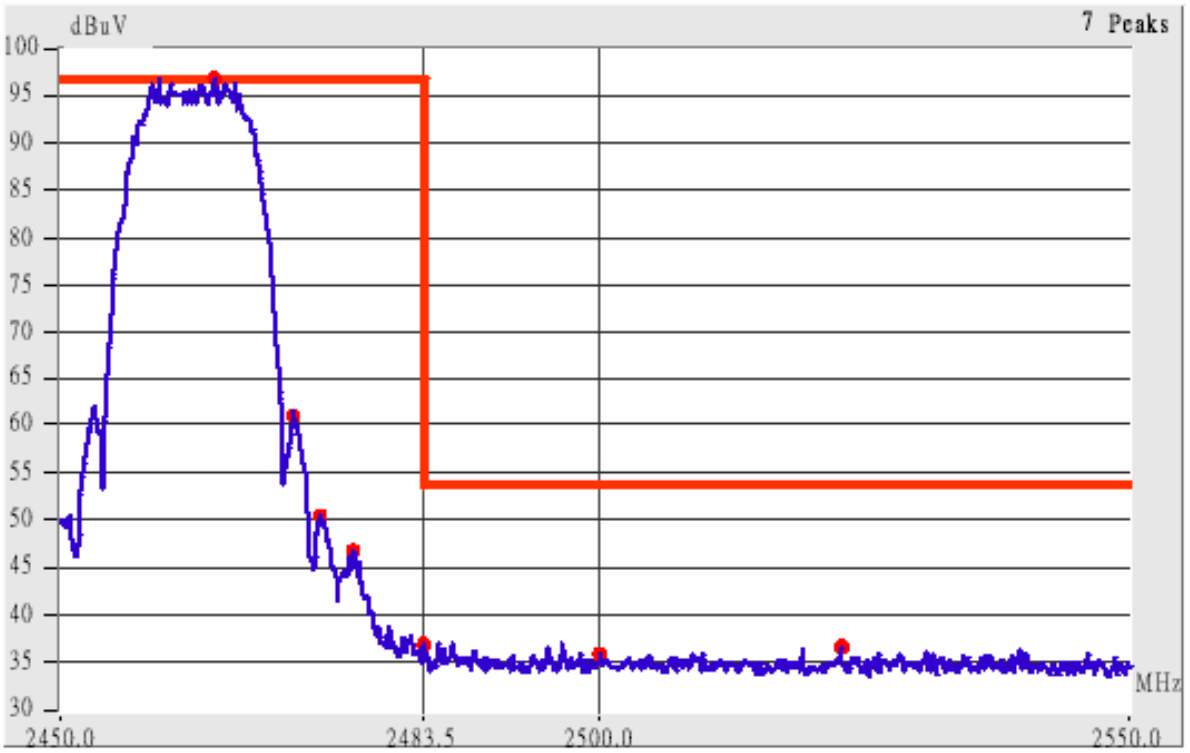
This is the hard copy of our bandedge measurement generated by our bandedge testing program. The plot shown above is the bandedge of channel 1.

9. The lobe left by the fundamental side is already 20dB below the highest emission level.

10. The emissions recorded in the restricted band is do comply with the Part 15.209(a) – as below.

Radiated Emission					*Corrected Amplitude (dBμV/m)*		*Class B (3m)*		
Frequency (MHz)	*Ant. P.*	*Ant. H. (m)*	*Table ( )*	*Factors (dB)*	*Peak*	*Average*	*Limit (dBμV/m) Peak*	*Ave.*	*Margin (dB)*
2362.66	Hor	1.00	81	9.11	45.11	---	73.96	53.96	-8.85
2390.02	Hor	1.00	336	9.18	43.85	---	73.96	53.96	-10.11
2366.40	Ver	1.00	97	9.12	48.28	---	73.96	53.96	-5.68
2387.15	Ver	1.00	26	9.17	50.51	---	73.96	53.96	-3.45
2390.02	Ver	1.00	96	9.18	51.52	---	73.96	53.96	-2.44

Channel 11 of IEEE 802.11b, Antenna#2



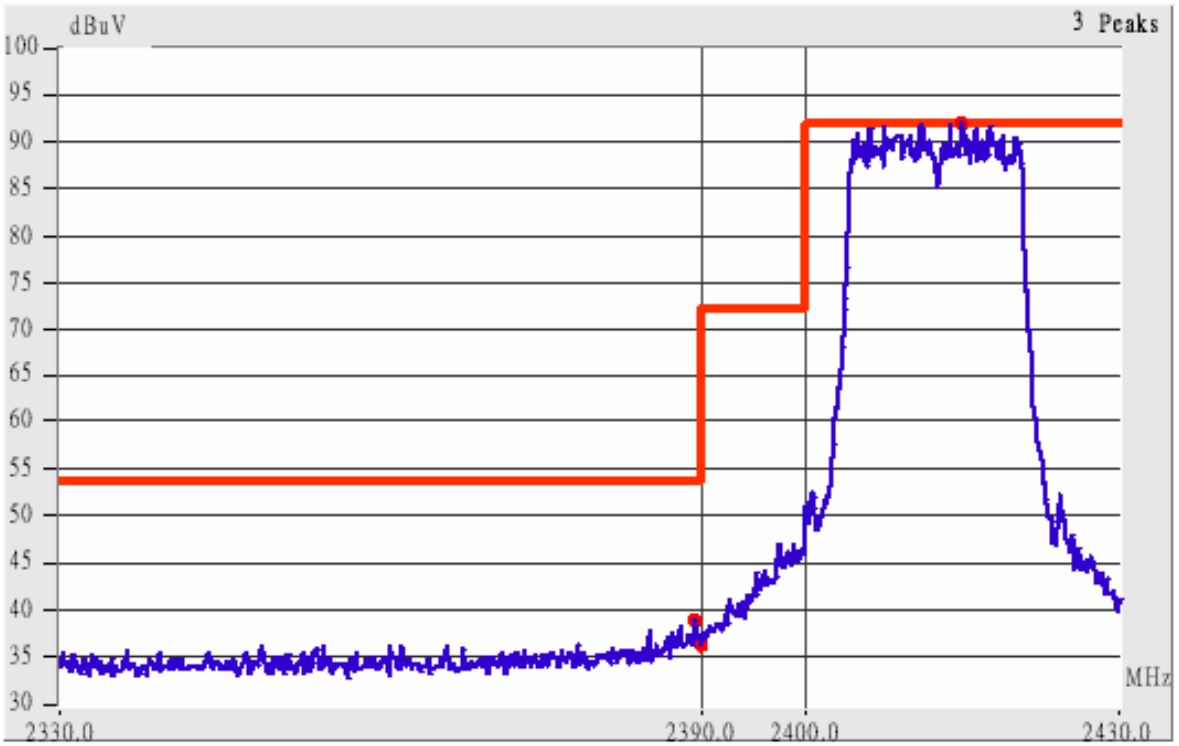
This is the hard copy of our bandedge measurement generated by our bandedge testing program. The plot shown above is the bandedge of channel 11.

11. The lobe right by the fundamental side is already 20dB below the highest emission level.

12. The emissions recorded in the restricted band is do comply with the Part 15.209(a) – as below

Radiated Emission					*Corrected Amplitude* (dBμV/m)		*Class B (3m)*		
Frequency (MHz)	*Ant. P.*	*Ant. H. (m)*	*Table ( )*	*Factors (dB)*	*Peak*	*Average*	*Limit (dBμV/m) Peak*	*Ave.*	*Margin (dB)*
2487.29	Hor	1.00	216	9.45	45.12	---	73.96	53.96	-8.84
2521.24	Hor	1.00	224	9.53	45.53	---	73.96	53.96	-8.43
2483.50	Ver	1.00	249	9.44	50.28	---	73.96	53.96	-3.68
2490.56	Ver	1.00	241	9.46	49.80	---	73.96	53.96	-4.16
2500.01	Ver	1.00	155	9.49	46.32	---	73.96	53.96	-7.64
2524.97	Ver	1.00	135	9.54	48.70	---	73.96	53.96	-5.26

Channel 1 of IEEE 802.11g, Antenna#2

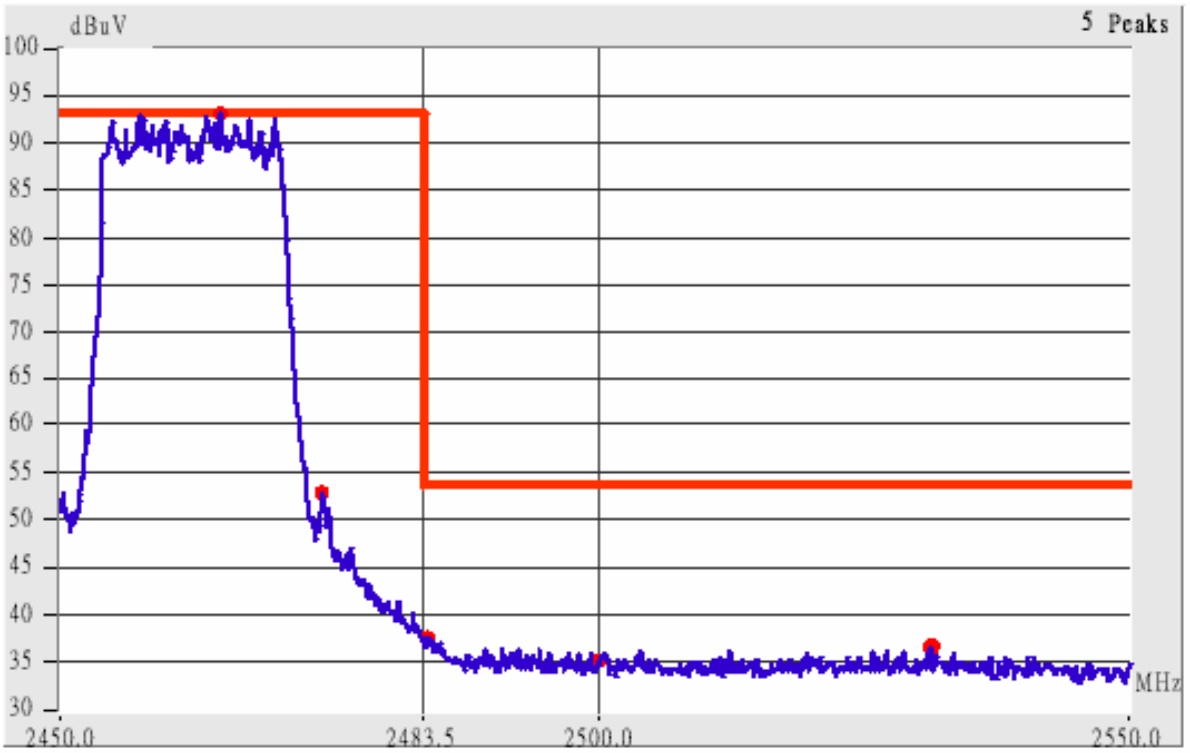


This is the hard copy of our bandedge measurement generated by our bandedge testing program. The plot shown above is the bandedge of channel 1.

13. The lobe left by the fundamental side is already 20dB below the highest emission level.
14. The emissions recorded in the restricted band is do comply with the Part 15.209(a) – as below.

Radiated Emission					*Corrected Amplitude (dBμV/m)*		*Class B (3m)*		
Frequency (MHz)	*Ant. P.*	*Ant. H. (m)*	*Table ( )*	*Factors (dB)*	*Peak*	*Average*	*Limit (dBμV/m) Peak*	*Ave.*	*Margin (dB)*
2354.16	Hor	1.00	301	9.08	44.91	---	73.96	53.96	-9.05
2390.02	Hor	1.00	129	9.18	42.35	---	73.96	53.96	-11.61
2389.37	Ver	1.00	248	9.18	48.51	---	73.96	53.96	-5.45
2390.02	Ver	1.00	129	9.18	46.85	---	73.96	53.96	-7.11

Channel 11 of IEEE 802.11g, Antenna#2



This is the hard copy of our bandedge measurement generated by our bandedge testing program. The plot shown above is the bandedge of channel 11.

15. The lobe right by the fundamental side is already 20dB below the highest emission level.

16. The emissions recorded in the restricted band is do comply with the Part 15.209(a) – as below

Radiated Emission					*Corrected Amplitude (dBμV/m)*		*Class B (3m)*		
Frequency (MHz)	*Ant. P.*	*Ant. H. (m)*	*Table ( )*	*Factors (dB)*	*Peak*	*Average*	*Limit (dBμV/m) Peak*	*Ave.*	*Margin (dB)*
2496.33	Hor	1.00	345	9.48	44.98	---	73.96	53.96	-8.98
2533.67	Hor	1.00	248	9.55	45.39	---	73.96	53.96	-8.57
2483.50	Ver	1.00	222	9.44	48.11	---	73.96	53.96	-5.85
2484.78	Ver	1.00	321	9.45	48.11	---	73.96	53.96	-5.85
2500.01	Ver	1.00	219	9.49	44.66	---	73.96	53.96	-9.30
2533.03	Ver	1.00	5	9.55	46.89	---	73.96	53.96	-7.07