

FCC TEST REPORT (15.247)

REPORT NO.: RF951026H01

MODEL NO.: AP-5181

RECEIVED: Oct. 26, 2006

TESTED: Dec. 15 to 22, 2006

ISSUED: Dec. 26, 2006

APPLICANT: Symbol Technologies Inc.

ADDRESS: One Symbol Plaza, Holtsville, NY 11742-1300 U.S.A.

ISSUED BY: Advance Data Technology Corporation

TEST LOCATION: No. 81-1, Lu Liao Keng, 9 Ling, Wu Lung Tsuen, Chiung Lin Hsiang, Hsin Chu Hsien, Taiwan, R.O.C.

This test report consists of 208 pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product endorsement by CNLA, A2LA or any government agencies. The test results in the report only apply to the tested sample.



No. 2177-01

Table of Contents

1.	CERTIFICATION	6
2.	SUMMARY OF TEST RESULTS	7
2.1	MEASUREMENT UNCERTAINTY	9
3.	GENERAL INFORMATION	10
3.1	GENERAL DESCRIPTION OF EUT	10
3.2	DESCRIPTION OF TEST MODES	13
3.2.1	TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL:	14
3.3	GENERAL DESCRIPTION OF APPLIED STANDARDS	16
3.4	DESCRIPTION OF SUPPORT UNITS.....	17
3.5	CONFIGURATION OF SYSTEM UNDER TEST	18
4.	TEST TYPES AND RESULTS (802.11b & g, 2400 ~ 2483.5MHz Band)	19
4.1	CONDUCTED EMISSION MEASUREMENT	19
4.1.1	LIMITS OF CONDUCTED EMISSION MEASUREMENT	19
4.1.2	TEST INSTRUMENTS.....	19
4.1.3	TEST PROCEDURES	20
4.1.4	DEVIATION FROM TEST STANDARD	20
4.1.5	TEST SETUP	21
4.1.6	EUT OPERATING CONDITIONS	21
4.1.7	TEST RESULTS	22
4.2	RADIATED EMISSION MEASUREMENT	24
4.2.1	LIMITS OF RADIATED EMISSION MEASUREMENT.....	24
4.2.2	TEST INSTRUMENTS.....	25
4.2.3	TEST PROCEDURES	26
4.2.4	DEVIATION FROM TEST STANDARD	26
4.2.5	TEST SETUP	27
4.2.6	EUT OPERATING CONDITIONS	27
4.2.7	TEST RESULTS	28
4.2.8	TEST RESULTS (ANTENNA 1)	30
4.2.9	TEST RESULTS (ANTENNA 2)	44
4.2.10	TEST RESULTS (ANTENNA 3)	58
4.2.11	TEST RESULTS (ANTENNA 4)	72
4.3	6dB BANDWIDTH MEASUREMENT	86
4.3.1	LIMITS OF 6dB BANDWIDTH MEASUREMENT	86
4.3.2	TEST INSTRUMENTS.....	86
4.3.3	TEST PROCEDURE.....	87
4.3.4	DEVIATION FROM TEST STANDARD	87
4.3.5	TEST SETUP	87
4.3.6	EUT OPERATING CONDITIONS	87

4.3.7	TEST RESULTS (ANTENNA 1)	88
4.3.8	TEST RESULTS (ANTENNA 2)	94
4.3.9	TEST RESULTS (ANTENNA 3)	100
4.3.10	TEST RESULTS (ANTENNA 4)	106
4.4	MAXIMUM PEAK OUTPUT POWER	112
4.4.1	LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT	112
4.4.2	INSTRUMENTS	112
4.4.3	TEST PROCEDURES	113
4.4.4	DEVIATION FROM TEST STANDARD	113
4.4.5	TEST SETUP	113
4.4.6	EUT OPERATING CONDITIONS	113
4.4.7	TEST RESULTS	114
4.5	POWER SPECTRAL DENSITY MEASUREMENT	116
4.5.1	LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT	116
4.5.2	TEST INSTRUMENTS	116
4.5.3	TEST PROCEDURE	117
4.5.4	DEVIATION FROM TEST STANDARD	117
4.5.5	TEST SETUP	117
4.5.6	EUT OPERATING CONDITION	117
4.5.7	TEST RESULTS (ANTENNA 1)	118
4.5.8	TEST RESULTS (ANTENNA 2)	124
4.5.9	TEST RESULTS (ANTENNA 3)	130
4.5.10	TEST RESULTS (ANTENNA 4)	136
4.6	BAND EDGES MEASUREMENT	142
4.6.1	LIMITS OF BAND EDGES MEASUREMENT	142
4.6.2	TEST INSTRUMENTS	142
4.6.3	TEST PROCEDURE	142
4.6.4	EUT OPERATING CONDITION	142
4.6.5	TEST RESULTS (ANTENNA 1)	143
4.6.6	TEST RESULTS (ANTENNA 2)	148
4.6.7	TEST RESULTS (ANTENNA 3)	153
4.6.8	TEST RESULTS (ANTENNA 4)	158
4.7	ANTENNA REQUIREMENT	163
4.7.1	STANDARD APPLICABLE	163
4.7.2	ANTENNA CONNECTED CONSTRUCTION	163
5.	TEST TYPES AND RESULTS (802.11a, 5725~5850MHz Band)	164
5.1	CONDUCTED EMISSION MEASUREMENT	164
5.1.1	LIMITS OF CONDUCTED EMISSION MEASUREMENT	164
5.1.2	TEST INSTRUMENTS	164
5.1.3	TEST PROCEDURES	165
5.1.4	DEVIATION FROM TEST STANDARD	165

5.1.5	TEST SETUP	166
5.1.6	EUT OPERATING CONDITIONS	166
5.1.7	TEST RESULTS	167
5.2	RADIATED EMISSION MEASUREMENT	169
5.2.1	LIMITS OF RADIATED EMISSION MEASUREMENT	169
5.2.2	TEST INSTRUMENTS.....	170
5.2.3	TEST PROCEDURES	171
5.2.4	DEVIATION FROM TEST STANDARD	171
5.2.5	TEST SETUP	172
5.2.6	EUT OPERATING CONDITIONS	172
5.2.7	TEST RESULTS	173
5.2.8	TEST RESULTS(ANTENNA A).....	175
5.2.9	TEST RESULTS(ANTENNA B).....	178
5.2.10	TEST RESULTS(ANTENNA C).....	181
5.2.11	TEST RESULTS(ANTENNA D).....	184
5.3	6dB BANDWIDTH MEASUREMENT	187
5.3.1	LIMITS OF 6dB BANDWIDTH MEASUREMENT	187
5.3.2	TEST INSTRUMENTS.....	187
5.3.3	TEST PROCEDURE.....	188
5.3.4	DEVIATION FROM TEST STANDARD	188
5.3.5	TEST SETUP	188
5.3.6	EUT OPERATING CONDITIONS	188
5.3.7	TEST RESULTS	189
5.4	MAXIMUM PEAK OUTPUT POWER.....	192
5.4.1	LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT	192
5.4.2	INSTRUMENTS.....	192
5.4.3	TEST PROCEDURES	193
5.4.4	DEVIATION FROM TEST STANDARD	193
5.4.5	TEST SETUP	193
5.4.6	EUT OPERATING CONDITIONS	193
5.4.7	TEST RESULTS	194
5.5	POWER SPECTRAL DENSITY MEASUREMENT.....	195
5.5.1	LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT	195
5.5.2	TEST INSTRUMENTS.....	195
5.5.3	TEST PROCEDURE.....	196
5.5.4	DEVIATION FROM TEST STANDARD	196
5.5.5	TEST SETUP	196
5.5.6	EUT OPERATING CONDITION	196
5.5.7	TEST RESULTS	197
5.6	BAND EDGES MEASUREMENT	201
5.6.1	LIMITS OF BAND EDGES MEASUREMENT	201

5.6.2	TEST INSTRUMENTS.....	201
5.6.3	TEST PROCEDURE.....	202
5.6.4	DEVIATION FROM TEST STANDARD	202
5.6.5	EUT OPERATING CONDITION	202
5.6.6	TEST RESULTS	203
5.7	ANTENNA REQUIREMENT	206
5.7.1	STANDARD APPLICABLE.....	206
5.7.2	ANTENNA CONNECTED CONSTRUCTION.....	206
6.	INFORMATION ON THE TESTING LABORATORIES.....	207
	APPENDIX-A	A-1

1. CERTIFICATION

PRODUCT: Symbol Access Point
BRAND NAME: Symbol
MODEL NO.: AP-5181
TEST SAMPLE: R&D SAMPLE
TESTED: Dec. 15 to 22, 2006
APPLICANT: Symbol Technologies Inc.
STANDARDS: FCC Part 15, Subpart C (Section 15.247),
ANSI C63.4-2003

The above equipment (Model: AP-5181) has been tested by **Advance Data Technology Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : Midoli Peng , **DATE:** Dec. 26, 2006
(Midoli Peng)

TECHNICAL
ACCEPTANCE : Hank Chung , **DATE:** Dec. 26, 2006
Responsible for RF (Hank Chung)

APPROVED BY : May Chen , **DATE:** Dec. 26, 2006
(May Chen, Deputy Manager)

2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

For 802.11b & g, 2412~2462MHz Band

APPLIED STANDARD: FCC Part 15, Subpart C (Section 15.247)			
Standard Section	Test Type and Limit	Result	Remark
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -14.76dB at 29.234MHz
15.247(a)(2)	Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Limit: min. 500kHz	PASS	Meet the requirement of limit.
15.247(b)	Maximum Peak Output Power Limit: max. 30dBm	PASS	Meet the requirement of limit.
15.247(d)	Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit. Minimum passing margin is -0.6dB at 2390.0MHz
15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit.
15.247(d)	Band Edge Measurement Limit: 20dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit.

For 802.11a, 5725~5850MHz Band

APPLIED STANDARD: FCC Part 15, Subpart C (Section 15.247)			
Standard Section	Test Type and Limit	Result	Remark
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -11.63dB at 19.707MHz
15.247(a)(2)	Spectrum Bandwidth of a Direct Sequence Spread Spectrum System Limit: min. 500kHz	PASS	Meet the requirement of limit.
15.247(b)	Maximum Peak Output Power Limit: max. 30dBm	PASS	Meet the requirement of limit.
15.247(d)	Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit. Minimum passing margin is -6.0dB at 43.77MHz
15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit.
15.247(d)	Band Edge Measurement Limit: 20dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit.

NOTE:

1. The EUT was operating in 2.412 ~ 2.462GHz, 5.150 ~ 5.250GHz and 5.725 ~ 5.850GHz frequencies band. This report was recorded the RF parameters including 2.412 ~ 2.462GHz and 5.725 ~ 5.850GHz. For the 5.150 ~ 5.250GHz RF parameters was recorded in another test report.

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Measurement	Value
Conducted emissions	2.26 dB
Radiated emissions (30MHz-1GHz)	2.98 dB
Radiated emissions (1GHz -18GHz)	2.91 dB
Radiated emissions (18GHz -40GHz)	1.88 dB

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	Symbol Access Point
MODEL NO.	AP-5181
FCC ID	H9PAP5181D
POWER SUPPLY	DC 48V from POE (Power over Ethernet)
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b:11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps 802.11a: 54/48/36/24/18/12/9/6Mbps
FREQUENCY RANGE	For 15.407 802.11a: 5.15 ~ 5.25GHz and 5.725 ~ 5.825GHz
	For 15.247 802.11b & 802.11g: 2412 ~ 2462MHz 802.11a: 5.725 ~ 5.850GHz
NUMBER OF CHANNEL	For 15.407 802.11a (5.15 ~ 5.25GHz):4 802.11a (5.725 ~ 5.825GHz):4
	For 15.247 802.11b & 802.11g: 11 802.11a (5.725 ~ 5.850GHz):5
CHANNEL SPACING	802.11b & 802.11g: 5MHz 802.11a: 20MHz for Normal mode
OUTPUT POWER	Please see note 4 (on next page)
DATA CABLE	NA
ANTENNA TYPE	Please see note 3 (on next page)
I/O PORTS	Console Port x1, LAN Port x1, WAN Port x1
ASSOCIATED DEVICES	NA

NOTE:

1. The EUT operates in both the 5GHz and 2.4GHz Bands and compatibility with 802.11a and 802.11b, 802.11g technology.

2. The EUT was operated with the following POE:

POE (Only for test, not for sale)	
BRAND:	Symbol
MODEL:	AP-PSBIAS-1P2-AFR
INPUT:	AC100~250V,0.5A, 60/50Hz
OUTPUT:	DC 48V, 0.35A

3. There are six antennas provided to this EUT, please refer to the following table:

For 2.4GHz				
No.	Model No.	Gain (dBi)	Antenna Type	Connector
1	ML-2499-FHPA5-01R	7.7	Omni	Type-N(m)
2	ML-2499-FHPA9-01R	9	Omni	Type-N(m)
3	* ML-2452-PNA7-01R	7.8	Panel	Type-N(m)
4	* ML-2452-PNA5-01R	4.5	Panel	Type-N(m)
For 5GHz				
No.	Model No.	Gain (dBi)	Antenna Type	Connector
A	* ML-2452-PNA7-01R	4.9-5.25: 7.0 5.25-5.9: 10.7	Panel	Type-N(m)
B	* ML-2452-PNA5-01R	4.9-5.25: 5 5.25-5.9: 7.5	Panel	Type-N(m)
C	ML-5299-FHPA10-01R	10	Omni	Type-N(m)
D	ML-5299-FHPA6-01R	8	Omni	Type-N(m)
Note:				
1. "*" is a Dual Band antenna can be used in both 2.4GHz and 5GHz.				

4. Peak output power (Unit : mW) :

For 2.4GHz

Operated in 2412 ~ 2462MHz

802.11b:

No.	Symbol P/N (Antenna)	Operating Frequency (MHz)		
		2412MHz (Ch1)	2437MHz (Ch6)	2462MHz (Ch11)
1	ML-2499-FHPA5-01R	23.442	53.703	20.893
2	ML-2499-FHPA9-01R	11.220	42.658	11.220
3	ML-2452-PNA7-01R	12.882	43.652	12.589
4	ML-2452-PNA5-01R	10.000	33.113	9.333

802.11g:

No.	Symbol P/N (Antenna)	Operating Frequency (MHz)		
		2412MHz (Ch1)	2437MHz (Ch6)	2462MHz (Ch11)
1	ML-2499-FHPA5-01R	46.774	95.499	35.481
2	ML-2499-FHPA9-01R	23.442	60.256	17.783
3	ML-2452-PNA7-01R	31.623	66.069	17.783
4	ML-2452-PNA5-01R	21.380	67.608	15.136

For 5GHz

Operated in 5150 ~ 5250MHz, 5725MHz ~ 5825MHz band:

<FCC Part 15, Subpart C (Section 15.407)>

No.	Symbol P/N (Antenna)	Operating Frequency (MHz)				
		5180MHz (Ch1)	5240MHz (Ch4)	5745MHz (Ch5)	5785MHz (Ch7)	5805MHz (Ch8)
A	ML-2452-PNA7-01R	37.757	37.931	29.174	99.541	23.823
B	ML-2452-PNA5-01R	47.643	47.315	29.174	99.541	29.040
C	ML-5299-FHPA10-01R	17.906	18.578	24.044	99.541	36.898
D	ML-5299-FHPA6-01R	29.580	27.102	16.444	99.541	15.560

For 5GHz

Operated in 5725 ~ 5850MHz band:

<FCC Part 15, Subpart C (Section 15.247)>

No.	Symbol P/N (Antenna)	Operating Frequency (MHz)		
		5745MHz (Ch1)	5785MHz (Ch3)	5825MHz (Ch5)
A	ML-2452-PNA7-01R	79.433	69.183	54.954
B	ML-2452-PNA5-01R	79.433	69.183	54.954
C	ML-5299-FHPA10-01R	79.433	69.183	54.954
D	ML-5299-FHPA6-01R	79.433	69.183	54.954

5. The above EUT information was declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 DESCRIPTION OF TEST MODES

Operated in 2400 ~ 2483.5MHz band:

For 802.11b/g: Eleven channels are provided to this EUT.

Channel	Frequency	Channel	Frequency
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

Operated in 5725 ~ 5850MHz band:

For 802.11a (5725 ~ 5850MHz band): Five channels are provided to this EUT.

Channel	Frequency
1	5745 MHz
2	5765 MHz
3	5785 MHz
4	5805 MHz
5	5825 MHz

3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL:

EUT configure mode	Applicable to				Description
	PLC	RE<1G	RE≥1G	APCM	
-	√	√	√	√	NA

Where PLC: Power Line Conducted Emission
RE≥1G: Radiated Emission above 1GHz

RE<1G RE: Radiated Emission below 1GHz
APCM: Antenna Port Conducted Measurement

Power Line Conducted Emission Test:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1	DSSS	CCK	11
802.11a	1 to 5	5	OFDM	BPSK	6

Radiated Emission Test (Below 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1	DSSS	CCK	11
802.11a	1 to 5	5	OFDM	BPSK	6

- ☒ For 2400 ~ 2483.5MHz : The EUT was tested with the following modes:

Test Mode	Description
Mode 1	2.4G Port : Antenna 2 + 5G Port : Antenna C(as terminator)
Mode 2	2.4G Port : Antenna 3 + 5G Port : Antenna C(as terminator)

- ☒ For 5725 ~ 5850MHz : The EUT was tested with the following modes:

Test Mode	Description
Mode 1	5G Port : Antenna A + 2.4G Port : Antenna 2(as terminator)
Mode 2	5G Port : Antenna C + 2.4G Port : Antenna 2(as terminator)

Radiated Emission Test (Above 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	CCK	11
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
802.11a	1 to 5	1, 3, 5	OFDM	BPSK	6

Bandedge Measurement:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1, 11	DSSS	CCK	11
802.11g	1 to 11	1, 11	OFDM	BPSK	6
802.11a	1 to 5	1, 5	OFDM	BPSK	6

Antenna Port Conducted Measurement:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
802.11b	1 to 11	1, 6, 11	DSSS	CCK	11
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
802.11a	1 to 5	1, 3, 5	OFDM	BPSK	6

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a Symbol Access Point. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C. (15.247)

ANSI C63.4-2003

All test items have been performed and recorded as per the above standards.

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

3.4 DESCRIPTION OF SUPPORT UNITS

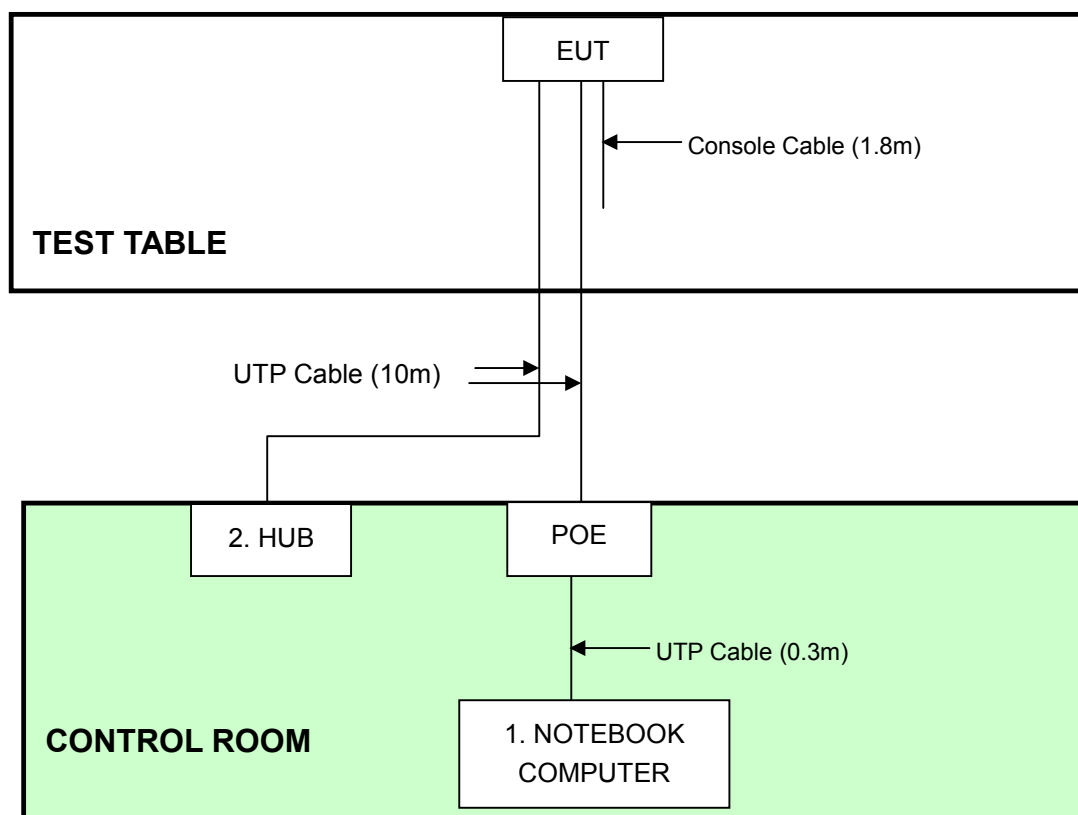
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK COMPUTER	DELL	PP18L	6976685584	FCC DoC
2	HUB	AVSYS	110H8	01-20E-000006	FCC DoC

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	NA

NOTE: All power cords of the above support units are non shielded (1.8m).

3.5 CONFIGURATION OF SYSTEM UNDER TEST



NOTE: 1. Support units 1~2 were kept in the control room during the test.

4. TEST TYPES AND RESULTS (802.11b & g, 2400 ~ 2483.5MHz Band)

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

- NOTE:**
1. The lower limit shall apply at the transition frequencies.
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver	ESCS 30	847124/029	Dec. 15, 2007
Line-Impedance Stabilization Network(for EUT)	ENV-216	100071	Nov. 26, 2007
Line-Impedance Stabilization Network(for Peripheral)	KNW-407	8/1395/12	Aug. 15, 2007
RF Cable (JETBAO)	RG233/U	Cable_CB_01	Dec. 09, 2007
Terminator	50	2	Oct. 19, 2007
Software	ADT_Cond_V7.3.2	NA	NA

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in ADT Shielded Room No. B.
 3. The VCCI Con B Registration No. is C-2193.

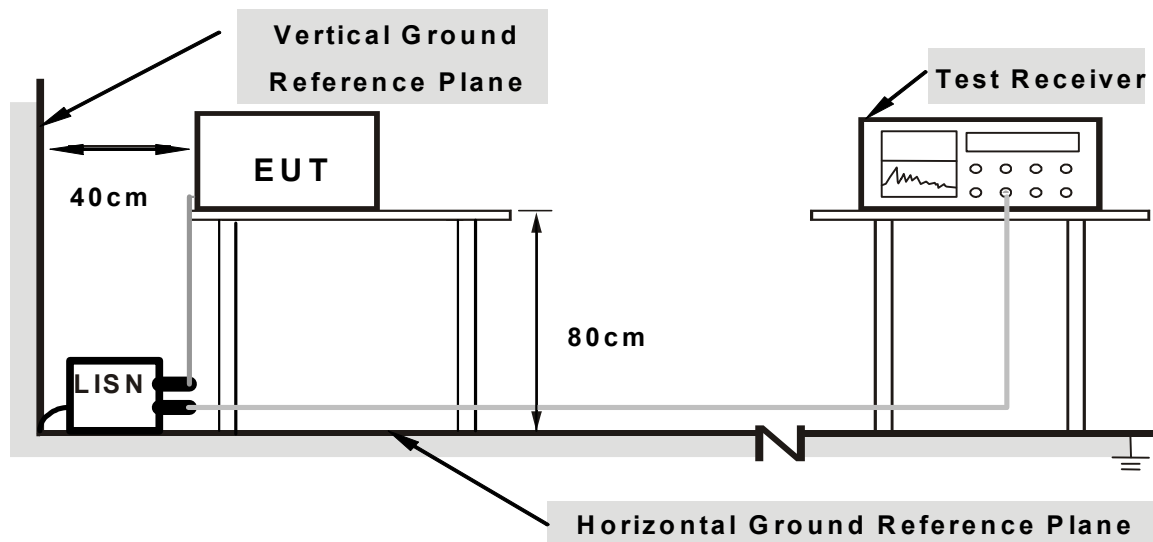
4.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.1.6 EUT OPERATING CONDITIONS

- a. Placed the EUT on the testing table.
- b. Prepared other computer systems to act as a communication partner and placed them outside of testing area.
- c. The communication partner run test program “WinTron V00.02” to enable EUT under transmission/receiving condition continuously at specific channel frequency via UTP cable and wireless.

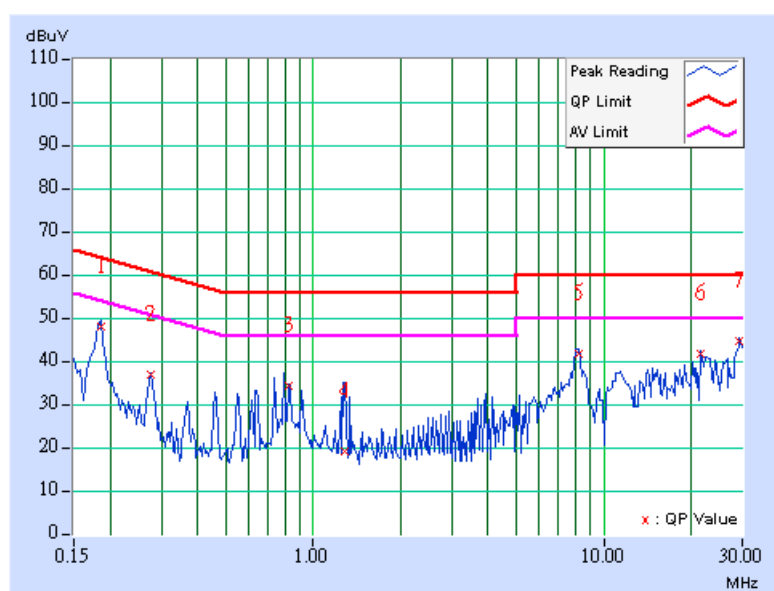
4.1.7 TEST RESULTS

Conducted Worst-Case Data

MODULATION TYPE	CCK	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TRANSFER RATE	11Mbps
ENVIRONMENTAL CONDITIONS	26deg. C, 63%RH, 961hPa	PHASE	Line (L)
TESTED BY	Moris Lin		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.185	9.60	37.92	-	47.52	-	64.25	54.25	-16.73	-
2	0.275	9.60	26.80	-	36.40	-	60.97	50.97	-24.57	-
3	0.826	9.60	24.28	-	33.88	-	56.00	46.00	-22.12	-
4	1.284	9.63	9.34	-	18.97	-	56.00	46.00	-37.03	-
5	8.171	9.84	31.70	-	41.54	-	60.00	50.00	-18.46	-
6	21.660	10.10	31.66	-	41.76	-	60.00	50.00	-18.24	-
7	29.234	10.10	34.78	-	44.88	-	60.00	50.00	-15.12	-

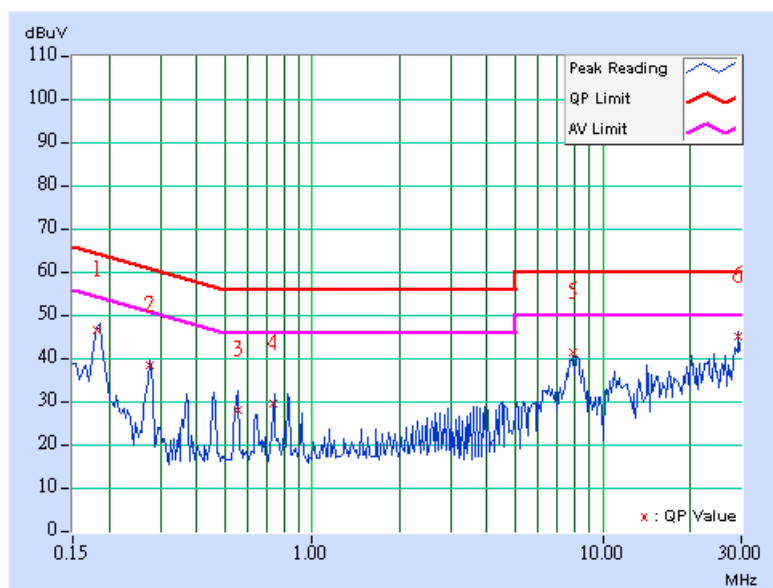
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



MODULATION TYPE	CCK	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TRANSFER RATE	11Mbps
ENVIRONMENTAL CONDITIONS	26deg. C, 63%RH, 961hPa	PHASE	Neutral (N)
TESTED BY	Moris Lin		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.181	9.60	36.74	-	46.34	-	64.43	54.43	-18.09	-
2	0.275	9.60	28.39	-	37.99	-	60.97	50.97	-22.98	-
3	0.552	9.60	18.14	-	27.74	-	56.00	46.00	-28.26	-
4	0.734	9.60	19.53	-	29.13	-	56.00	46.00	-26.87	-
5	7.898	9.83	31.41	-	41.24	-	60.00	50.00	-18.76	-
6	29.234	10.10	35.14	-	45.24	-	60.00	50.00	-14.76	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

Frequencies (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
ADVANTEST Spectrum Analyzer	R3271A	85060311	July 03, 2007
HP Pre_Amplifier	8449B	3008A01922	Sep. 18, 2007
ROHDE & SCHWARZ Test Receiver	ESCS30	100375	Sep. 20, 2007
CHASE Broadband Antenna	VULB9168	138	Dec. 11, 2007
Schwarzbeck Horn_Antenna	BBHA9120	D124	Dec. 27, 2006
Schwarzbeck Horn_Antenna	BBHA 9170	BBHA9170153	Jan. 05, 2007
SCHWARZBECK Biconical Antenna	VHBA9123	459	Jun. 08, 2009
SCHWARZBECK Periodic Antenna	UPA6108	1148	Jun. 08, 2009
R&S Loop Antenna	HFH2-Z2	881058/15	Nov. 29, 2007
RF Switches (ARNITSU)	CS-201	1565157	NA
RF CABLE (Chaintek)	SF102	22054-2	Nov. 14, 2007
RF Cable(RICHTEC)	9913-30M N-N Cable	STCCAB-30M-1 GHz	Jul. 15, 2007
Software	ADT_Radiated_V 5.14	NA	NA
CHANCE MOST Antenna Tower	AT-100	0203	NA
CHANCE MOST Turn Table	TT-100	0203	NA

- Note: 1. The calibration interval of the above test instruments is 12 months (36 months for Biconical and Periodic Antenna) and the calibrations are traceable to NML/ROC and NIST/USA.
2. The horn antenna, HP preamplifier (model: 8449B) and Spectrum Analyzer (model: R3271A) are used only for the measurement of emission frequency above 1GHz if tested.
3. The test was performed in ADT Open Site No. C.
4. The FCC Site Registration No. is 656396.
5. The VCCI Site Registration No. is R-1626.
6. The CANADA Site Registration No. is IC 4824A-3.

4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi- anechoic. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using the quasi-peak method or average method as specified and then reported in Data sheet peak mode and QP mode.

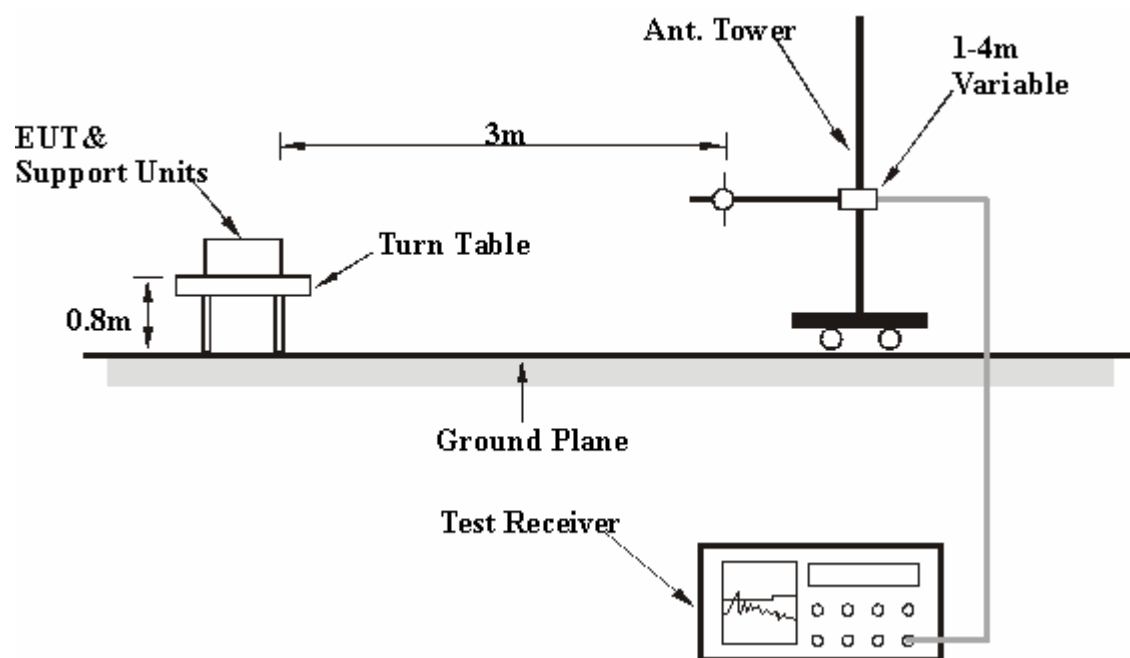
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6

4.2.7 TEST RESULTS

Below 1GHz Worst-Case Data

TEST MODE	Mode 1	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	27deg. C, 59%RH, 961hPa	TESTED BY	Tony Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	280.00	32.10 QP	46.00	-13.90	1.24 H	177	16.20	15.90
2	440.00	36.80 QP	46.00	-9.20	1.77 H	28	16.60	20.20
3	480.00	39.40 QP	46.00	-6.60	1.11 H	73	18.10	21.20
4	520.00	30.40 QP	46.00	-15.60	1.00 H	288	8.00	22.40
5	600.00	33.40 QP	46.00	-12.60	1.00 H	132	8.90	24.50
6	880.00	33.10 QP	46.00	-12.90	1.03 H	318	4.40	28.70

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	42.98	33.40 QP	40.00	-6.60	1.30 V	77	18.90	14.40
2	440.00	33.80 QP	46.00	-12.20	1.25 V	176	13.60	20.20
3	480.00	35.00 QP	46.00	-11.00	1.00 V	331	13.80	21.20
4	520.00	32.30 QP	46.00	-13.70	1.06 V	198	10.00	22.40
5	600.00	32.60 QP	46.00	-13.40	1.00 V	10	8.10	24.50
6	920.00	35.20 QP	46.00	-10.80	1.02 V	22	5.90	29.30

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value

Below 1GHz Worst-Case Data

TEST MODE	Mode 2	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	27deg. C, 59%RH, 961hPa	TESTED BY	Tony Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	280.00	34.10 QP	46.00	-11.90	1.67 H	278	18.30	15.90
2	440.00	31.60 QP	46.00	-14.40	1.02 H	327	11.40	20.20
3	480.00	32.50 QP	46.00	-13.50	1.03 H	331	11.20	21.20
4	520.00	32.00 QP	46.00	-14.00	1.60 H	1	9.60	22.40
5	600.00	34.30 QP	46.00	-11.70	1.00 H	280	9.90	24.50
6	880.00	30.50 QP	46.00	-15.50	1.00 H	9	1.80	28.70

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	46.98	33.70 QP	40.00	-6.30	1.01 V	145	19.00	14.80
2	200.00	20.80 QP	43.50	-22.70	1.00 V	21	9.20	11.60
3	480.00	34.90 QP	46.00	-11.10	1.31 V	265	13.70	21.20
4	520.00	31.50 QP	46.00	-14.50	1.20 V	255	9.20	22.40
5	840.00	33.40 QP	46.00	-12.60	1.35 V	81	5.20	28.20
6	920.00	30.70 QP	46.00	-15.30	1.25 V	333	1.40	29.30

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value

4.2.8 TEST RESULTS (ANTENNA 1)

802.11b DSSS modulation

CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH, 961hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.20 PK	74.00	-16.80	1.14 H	226	25.30	31.90
1	2390.00	44.80 AV	54.00	-9.20	1.14 H	226	12.90	31.90
2	*2412.00	94.70 PK			1.14 H	226	62.70	32.00
2	*2412.00	90.20 AV			1.14 H	226	58.20	32.00
3	4824.00	42.60 PK	74.00	-31.40	1.05 H	359	6.60	36.00
3	4824.00	31.30 AV	54.00	-22.70	1.05 H	359	-4.60	36.00
4	7236.00	47.80 PK	74.00	-26.20	1.00 H	0	5.60	42.20
4	7236.00	35.00 AV	54.00	-19.00	1.00 H	0	-7.20	42.20

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2385.00	63.30 PK	74.00	-10.70	1.34 V	10	31.40	31.90
1	2385.00	52.50 AV	54.00	-1.50	1.34 V	10	20.60	31.90
2	*2412.00	108.80 PK			1.01 V	240	76.80	32.00
2	*2412.00	104.10 AV			1.01 V	240	72.10	32.00
3	4824.00	43.50 PK	74.00	-30.50	1.70 V	79	7.50	36.00
3	4824.00	33.30 AV	54.00	-20.70	1.70 V	79	-2.70	36.00
4	7236.00	48.60 PK	74.00	-25.40	1.00 V	0	6.40	42.20
4	7236.00	35.80 AV	54.00	-18.20	1.00 V	0	-6.50	42.20

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247
 6. “ * ” : Fundamental frequency

CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH, 961hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.80 PK	74.00	-17.20	1.09 H	18	24.80	31.90
1	2390.00	44.80 AV	54.00	-9.20	1.09 H	18	12.90	31.90
2	*2437.00	100.50 PK			1.09 H	18	68.40	32.10
2	*2437.00	94.90 AV			1.09 H	18	62.80	32.10
3	2488.00	57.60 PK	74.00	-16.40	1.09 H	18	25.30	32.30
3	2488.00	45.70 AV	54.00	-8.30	1.09 H	18	13.40	32.30
4	4874.00	44.20 PK	74.00	-29.80	1.03 H	0	8.20	36.10
4	4874.00	38.10 AV	54.00	-15.90	1.03 H	0	2.00	36.10
5	7311.00	48.30 PK	74.00	-25.70	1.00 H	0	5.70	42.50
5	7311.00	35.20 AV	54.00	-18.80	1.00 H	0	-7.30	42.50

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	63.30 PK	74.00	-10.70	1.03 V	105	31.40	31.90
1	2390.00	53.40 AV	54.00	-0.60	1.03 V	105	21.50	31.90
2	*2437.00	113.10 PK			1.00 V	354	80.90	32.10
2	*2437.00	108.50 AV			1.00 V	354	76.40	32.10
3	2488.00	63.80 PK	74.00	-10.20	1.00 V	358	31.50	32.30
3	2488.00	52.80 AV	54.00	-1.20	1.00 V	358	20.50	32.30
4	4874.00	46.60 PK	74.00	-27.40	1.02 V	354	10.50	36.10
4	4874.00	40.50 AV	54.00	-13.50	1.02 V	354	4.50	36.10
5	7311.00	48.90 PK	74.00	-25.10	1.00 V	0	6.40	42.50
5	7311.00	36.20 AV	54.00	-17.80	1.00 V	0	-6.30	42.50

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency

CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH, 961hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

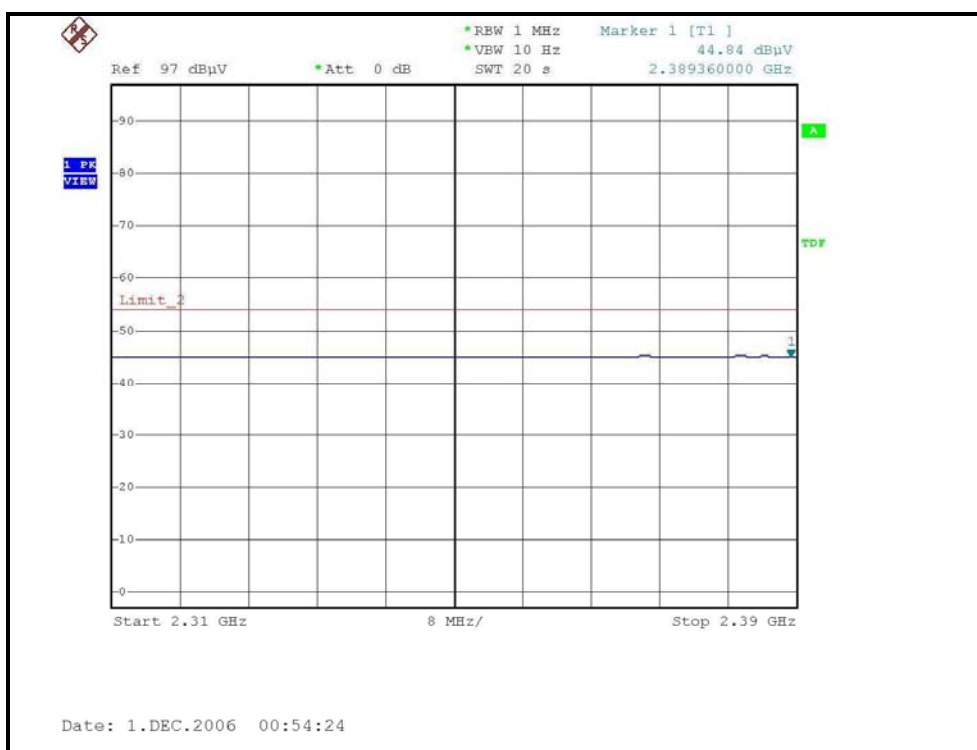
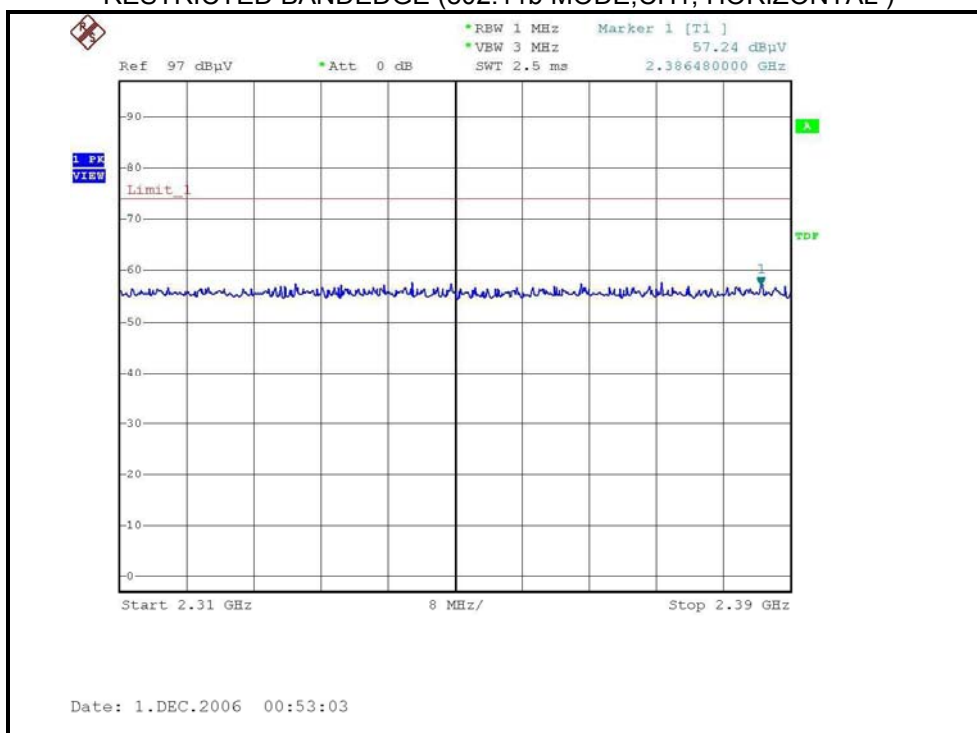
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	94.30 PK			1.09 H	15	62.10	32.20
1	*2462.00	89.30 AV			1.09 H	15	57.10	32.20
2	2483.50	58.00 PK	74.00	-16.00	1.09 H	15	25.70	32.30
2	2483.50	45.10 AV	54.00	-8.90	1.09 H	15	12.90	32.30
3	4924.00	42.10 PK	74.00	-31.90	1.17 H	22	5.90	36.20
3	4924.00	29.10 AV	54.00	-24.90	1.17 H	22	-7.10	36.20
4	7386.00	49.50 PK	74.00	-24.50	1.00 H	0	6.70	42.80
4	7386.00	35.80 AV	54.00	-18.20	1.00 H	0	-7.00	42.80

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

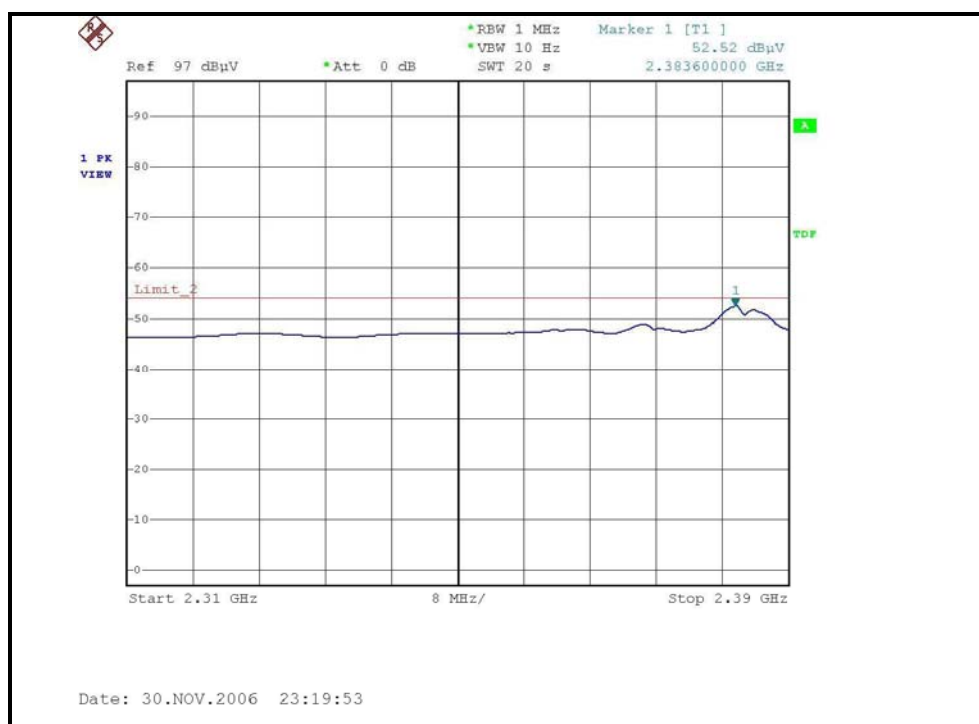
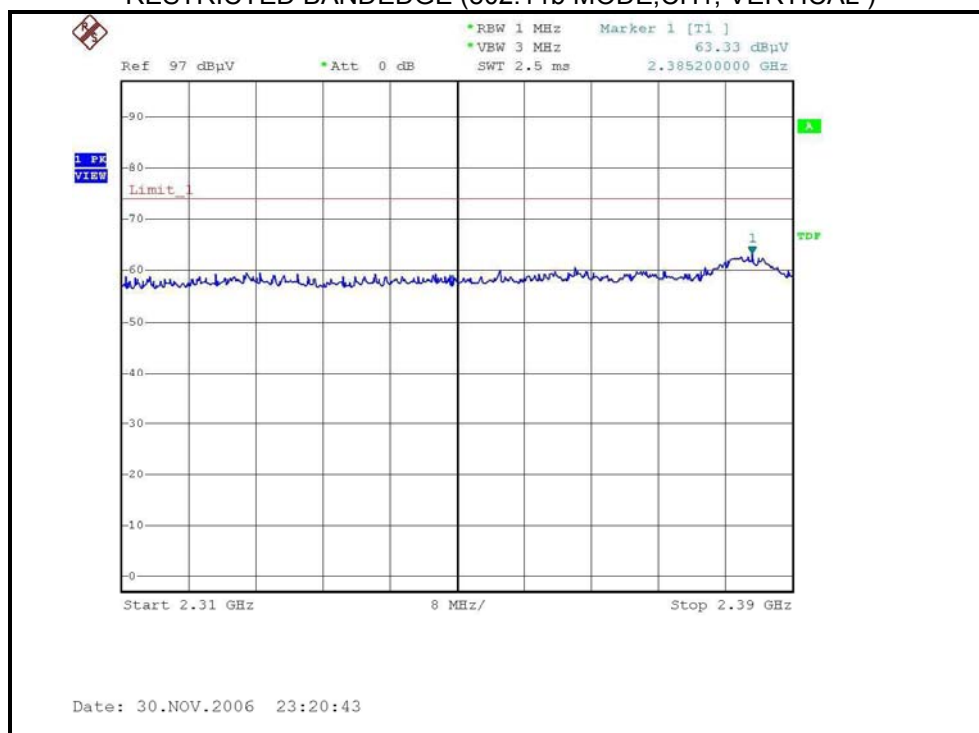
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	109.60 PK			1.00 V	232	77.40	32.20
1	*2462.00	104.60 AV			1.00 V	232	72.40	32.20
2	2487.00	63.00 PK	74.00	-11.00	1.20 V	0	30.70	32.30
2	2487.00	51.90 AV	54.00	-2.10	1.20 V	0	19.60	32.30
3	4924.00	44.10 PK	74.00	-29.90	1.13 V	0	7.90	36.20
3	4924.00	35.00 AV	54.00	-19.00	1.13 V	0	-1.20	36.20
4	7386.00	48.40 PK	74.00	-25.60	1.00 V	0	5.60	42.80
4	7386.00	35.50 AV	54.00	-18.50	1.00 V	0	-7.30	42.80

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247
 6. “ * “ : Fundamental frequency

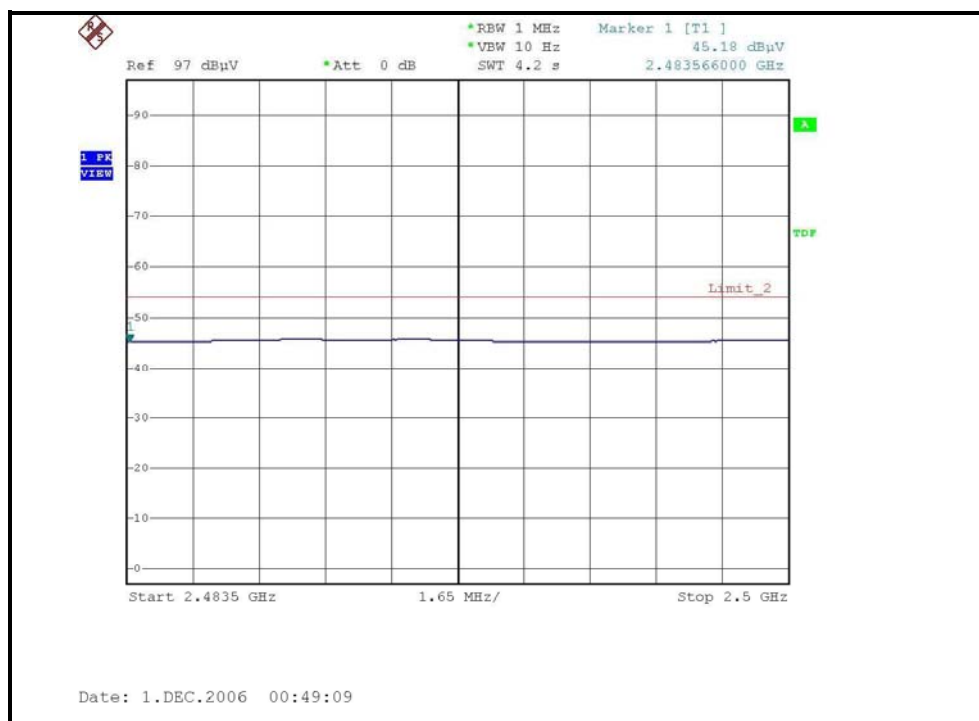
RESTRICTED BANDEDGE (802.11b MODE, CH1, HORIZONTAL)



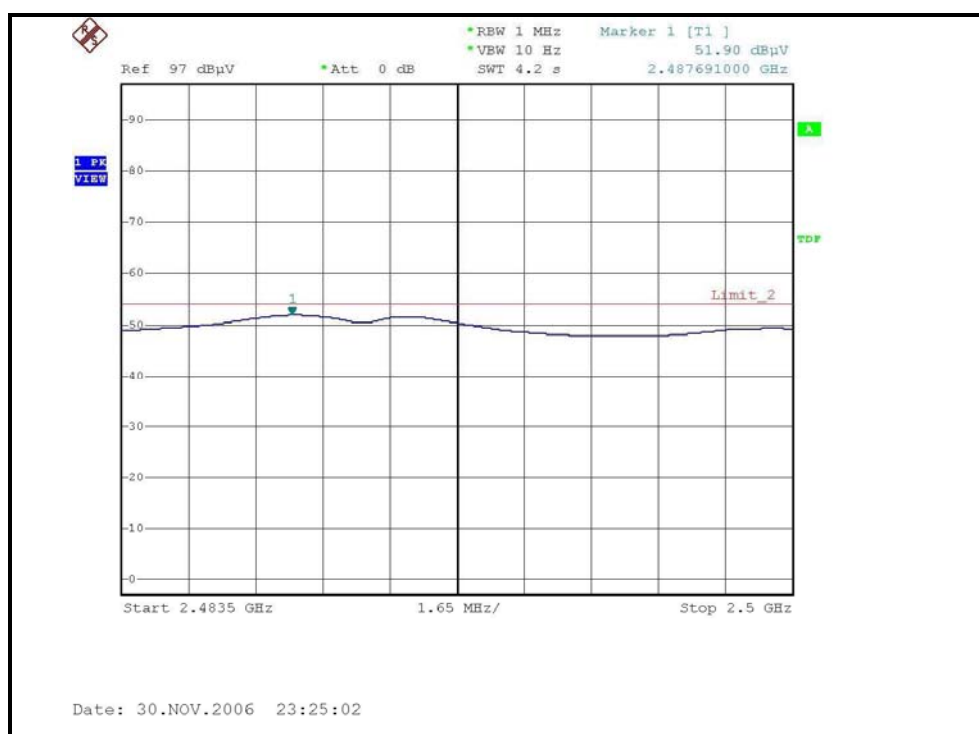
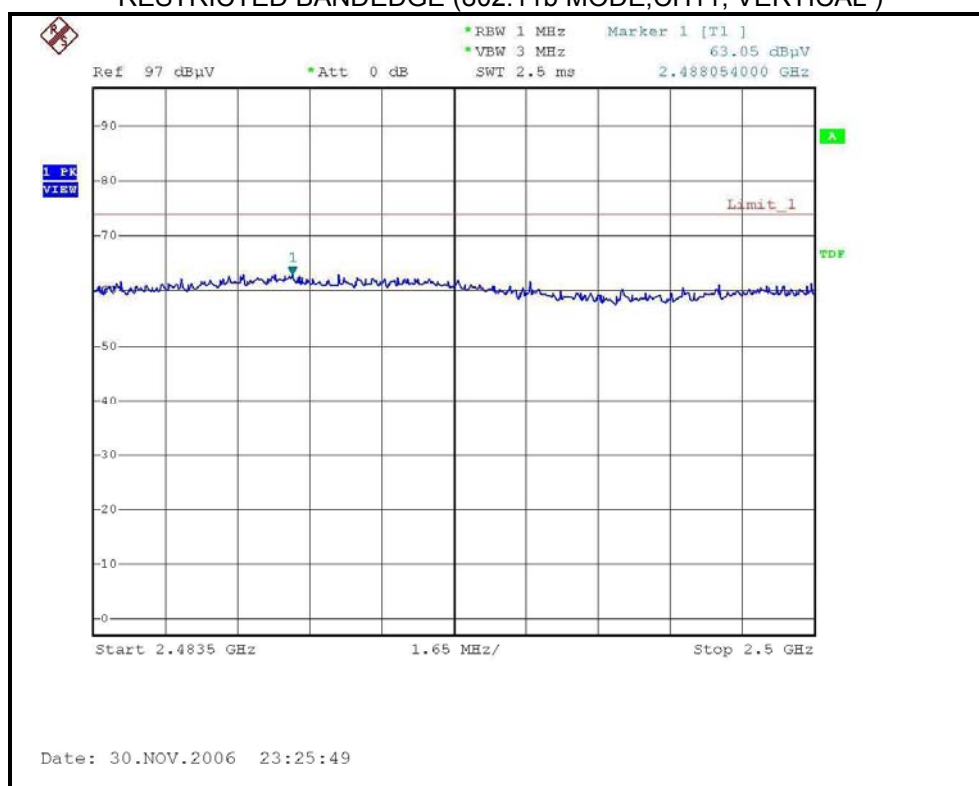
RESTRICTED BANDEDGE (802.11b MODE, CH1, VERTICAL)



RESTRICTED BANDEDGE (802.11b MODE, CH11, HORIZONTAL)



RESTRICTED BANDEDGE (802.11b MODE, CH11, VERTICAL)



802.11g OFDM modulation

CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH, 961hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	58.00 PK	74.00	-16.00	1.11 H	226	26.10	31.90
1	2390.00	45.30 AV	54.00	-8.70	1.11 H	226	13.30	31.90
2	*2412.00	98.70 PK			1.11 H	226	66.70	32.00
2	*2412.00	88.00 AV			1.11 H	226	56.00	32.00
3	4824.00	42.70 PK	74.00	-31.30	1.03 H	6	6.70	36.00
3	4824.00	29.20 AV	54.00	-24.80	1.03 H	6	-6.80	36.00
4	7236.00	47.50 PK	74.00	-26.50	1.00 H	0	5.30	42.20
4	7236.00	35.00 AV	54.00	-19.00	1.00 H	0	-7.30	42.20

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	70.40 PK	74.00	-3.60	1.26 V	107	38.50	31.90
1	2390.00	53.10 AV	54.00	-0.90	1.26 V	107	21.20	31.90
2	*2412.00	113.00 PK			1.21 V	5	81.00	32.00
2	*2412.00	102.60 AV			1.21 V	5	70.60	32.00
3	4824.00	41.90 PK	74.00	-32.10	1.00 V	218	5.90	36.00
3	4824.00	29.80 AV	54.00	-24.20	1.00 V	218	-6.20	36.00
4	7236.00	47.70 PK	74.00	-26.30	1.00 V	0	5.50	42.20
4	7236.00	35.00 AV	54.00	-19.00	1.00 V	0	-7.20	42.20

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247
 6. “ * ” : Fundamental frequency

CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH, 961hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.40 PK	74.00	-16.60	1.11 H	0	25.50	31.90
1	2390.00	45.00 AV	54.00	-9.00	1.11 H	0	13.10	31.90
2	*2437.00	101.40 PK			1.11 H	19	69.30	32.10
2	*2437.00	91.30 AV			1.11 H	19	59.20	32.10
3	2483.50	57.80 PK	74.00	-16.20	1.11 H	0	25.50	32.30
3	2483.50	45.40 AV	54.00	-8.60	1.11 H	0	13.10	32.30
4	4874.00	45.10 PK	74.00	-28.90	1.01 H	0	9.00	36.10
4	4874.00	30.90 AV	54.00	-23.10	1.01 H	0	-5.20	36.10
5	7311.00	48.70 PK	74.00	-25.30	1.00 H	0	6.20	42.50
5	7311.00	35.30 AV	54.00	-18.70	1.00 H	0	-7.20	42.50

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	67.10 PK	74.00	-6.90	1.24 V	38	35.20	31.90
1	2390.00	53.10 AV	54.00	-0.90	1.24 V	38	21.20	31.90
2	*2437.00	117.80 PK			1.05 V	144	85.60	32.10
2	*2437.00	107.50 AV			1.05 V	144	75.40	32.10
3	2483.50	67.70 PK	74.00	-6.30	1.18 V	0	35.40	32.30
3	2483.50	52.40 AV	54.00	-1.60	1.18 V	0	20.10	32.30
4	4874.00	44.80 PK	74.00	-29.20	1.03 V	0	8.80	36.10
4	4874.00	31.30 AV	54.00	-22.70	1.03 V	0	-4.80	36.10
5	7311.00	48.70 PK	74.00	-25.30	1.00 V	0	6.10	42.50
5	7311.00	35.60 AV	54.00	-18.40	1.00 V	0	-6.90	42.50

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency

CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH, 961hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

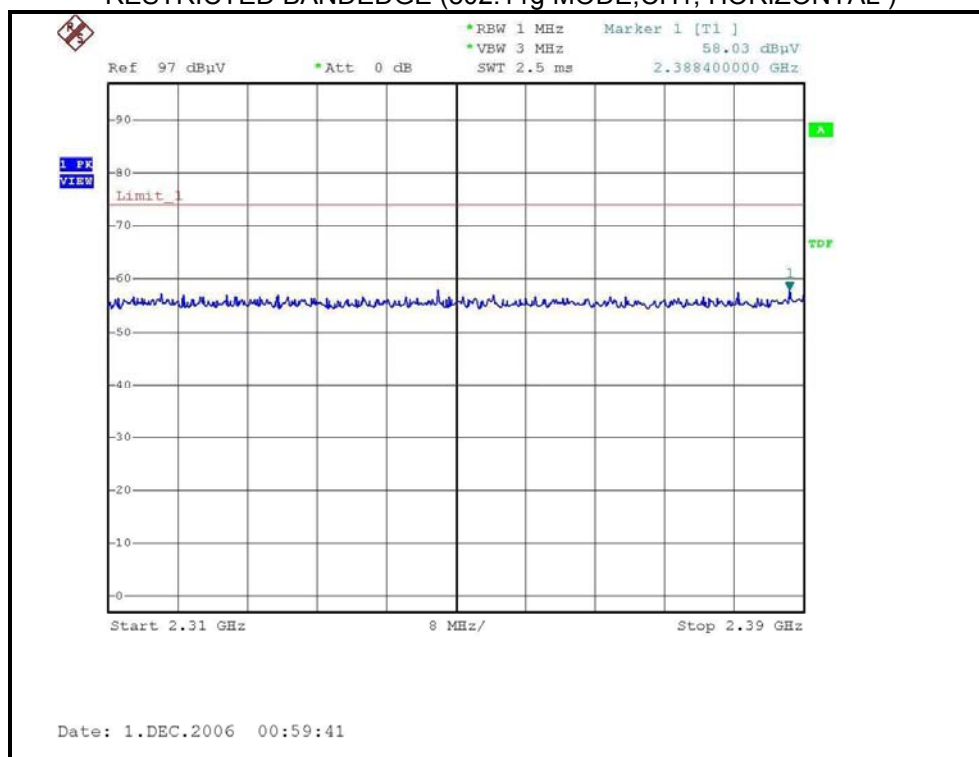
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	95.80 PK			1.31 H	19	63.50	32.20
1	*2462.00	85.30 AV			1.31 H	19	53.10	32.20
2	2483.50	57.20 PK	74.00	-16.80	1.31 H	19	25.00	32.30
2	2483.50	45.20 AV	54.00	-8.80	1.31 H	19	12.90	32.30
3	4924.00	43.30 PK	74.00	-30.70	1.00 H	20	7.10	36.20
3	4924.00	29.70 AV	54.00	-24.30	1.00 H	20	-6.50	36.20
4	7386.00	48.60 PK	74.00	-25.40	1.00 H	0	5.80	42.80
4	7386.00	35.80 AV	54.00	-18.20	1.00 H	0	-7.00	42.80

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

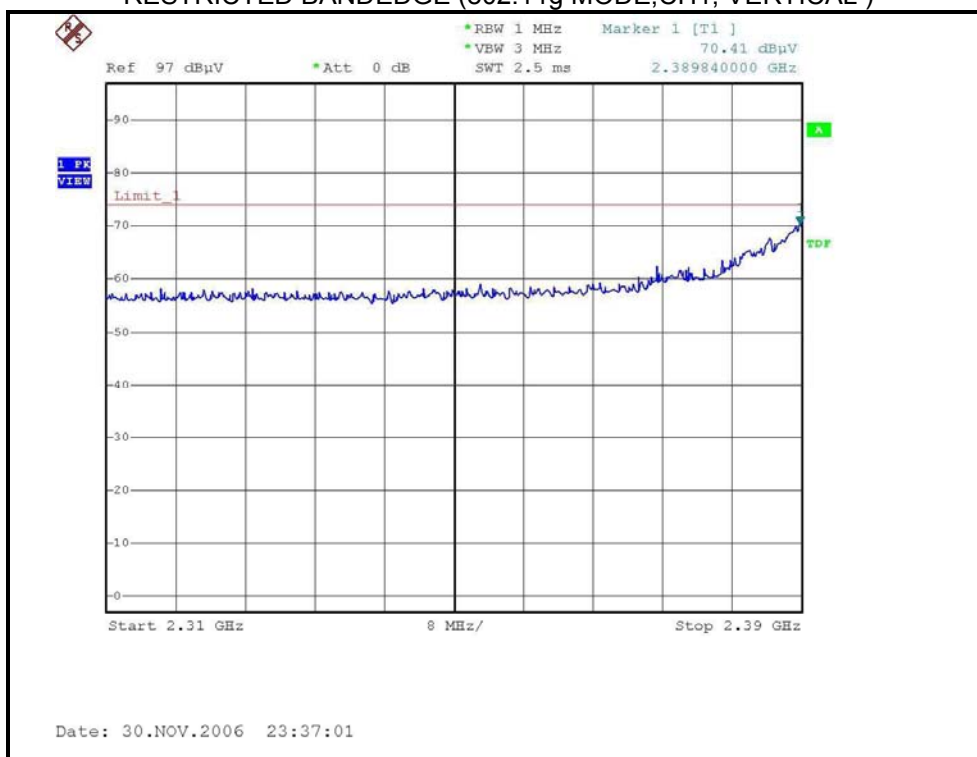
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	111.60 PK			1.54 V	356	79.40	32.20
1	*2462.00	101.20 AV			1.54 V	356	69.00	32.20
2	2483.50	69.00 PK	74.00	-5.00	1.20 V	358	36.80	32.30
2	2483.50	53.10 AV	54.00	-0.90	1.20 V	358	20.80	32.30
3	4924.00	42.30 PK	74.00	-31.70	1.10 V	100	6.10	36.20
3	4924.00	29.20 AV	54.00	-24.80	1.10 V	100	-7.00	36.20
4	7386.00	48.70 PK	74.00	-25.30	1.00 V	0	5.90	42.80
4	7386.00	36.50 AV	54.00	-17.50	1.00 V	0	-6.30	42.80

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247
 6. “ * ” : Fundamental frequency

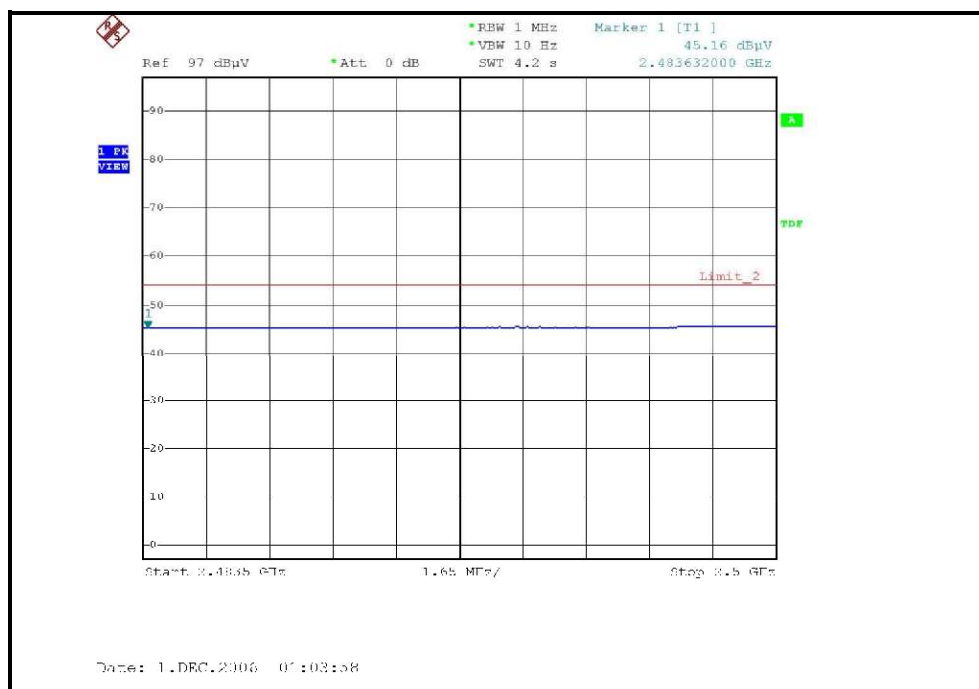
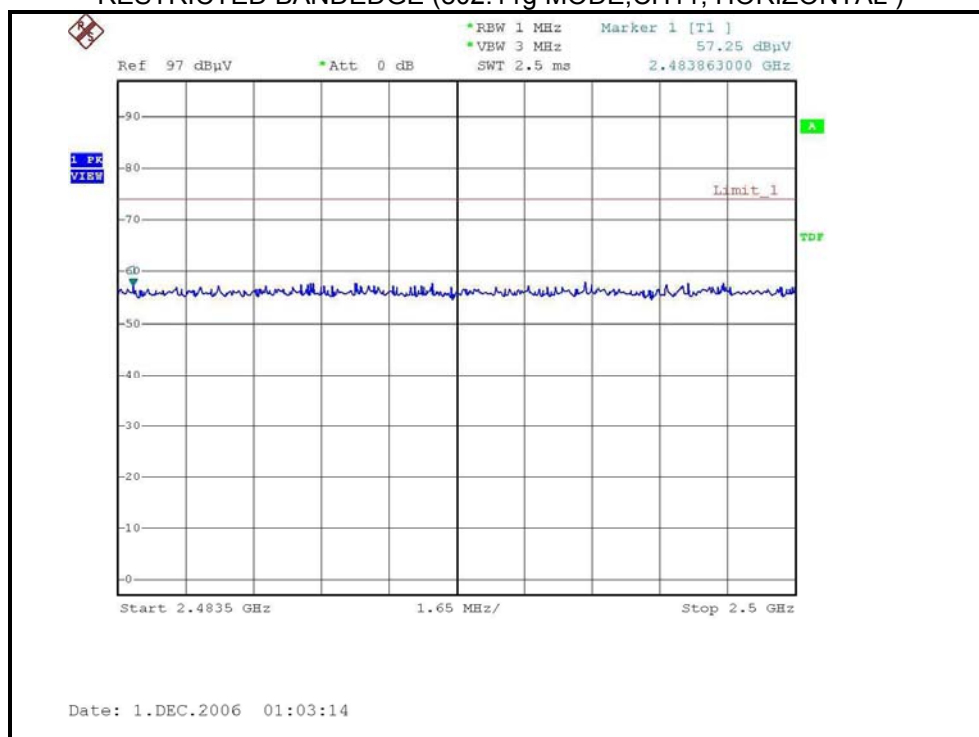
RESTRICTED BANDEDGE (802.11g MODE, CH1, HORIZONTAL)



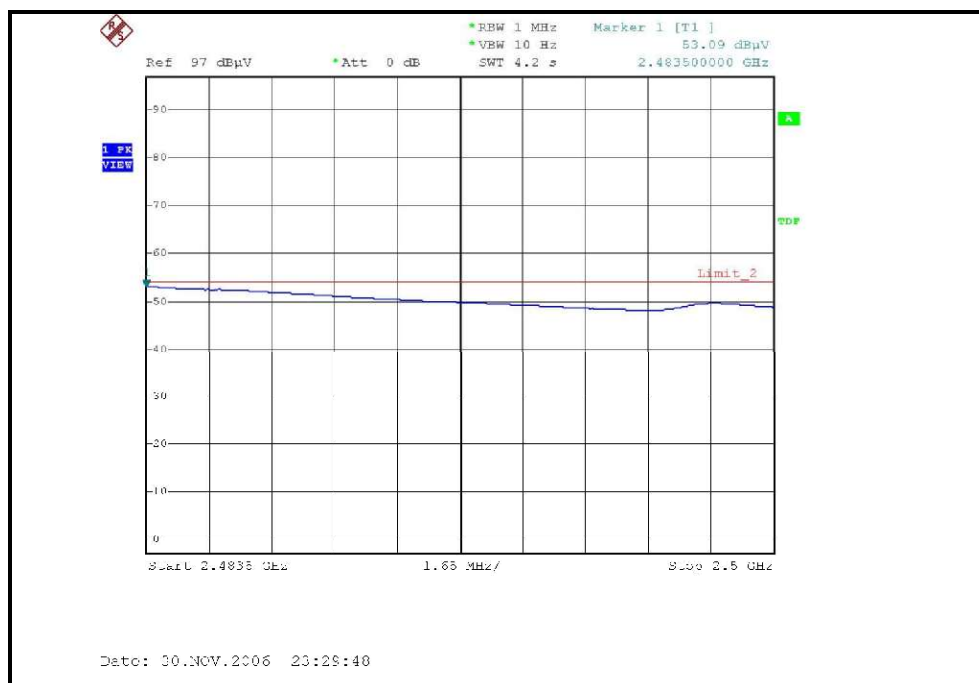
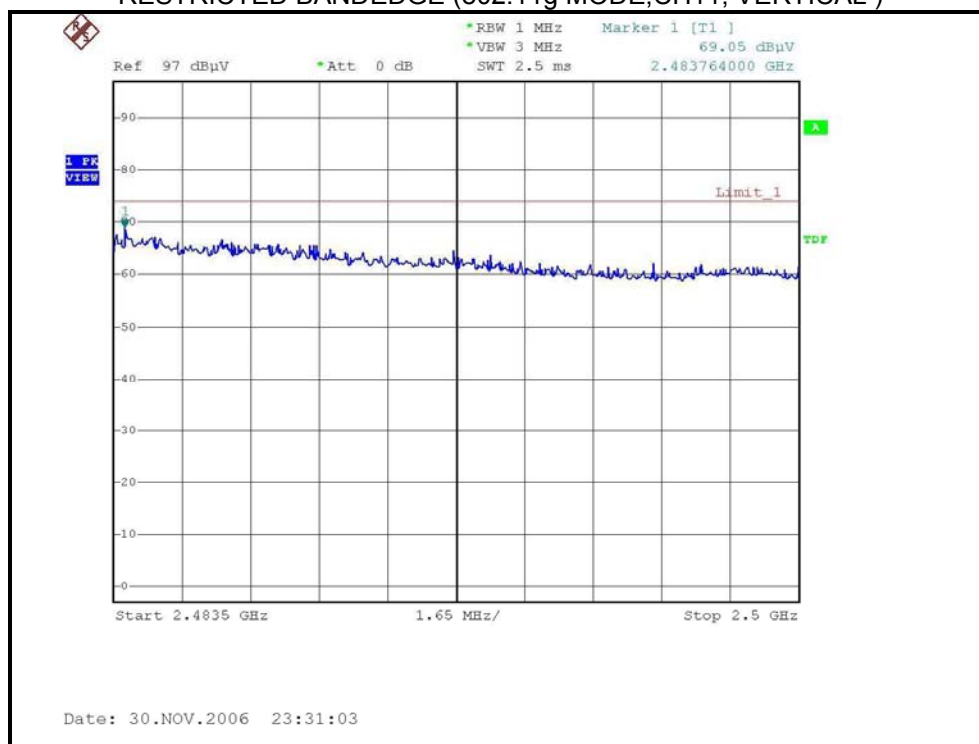
RESTRICTED BANDEDGE (802.11g MODE, CH1, VERTICAL)



RESTRICTED BANDEDGE (802.11g MODE, CH11, HORIZONTAL)



RESTRICTED BANDEDGE (802.11g MODE, CH11, VERTICAL)



4.2.9 TEST RESULTS (ANTENNA 2)

802.11b DSSS modulation

CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH, 961hPa	TESTED BY	Phoenix Huang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.40 PK	74.00	-17.60	1.29 H	146	24.50	31.90
1	2390.00	44.70 AV	54.00	-9.30	1.29 H	146	12.80	31.90
2	*2412.00	91.00 PK			1.27 H	150	59.00	32.00
2	*2412.00	86.40 AV			1.27 H	150	54.40	32.00
3	4824.00	51.10 PK	74.00	-22.90	1.12 H	170	15.10	36.00
3	4824.00	45.70 AV	54.00	-8.30	1.12 H	170	9.70	36.00
4	7236.00	51.60 PK	74.00	-22.40	1.29 H	166	9.30	42.20
4	7236.00	38.70 AV	54.00	-15.30	1.29 H	166	-3.60	42.20

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	65.50 PK	74.00	-8.50	1.36 V	93	33.60	31.90
1	2390.00	52.30 AV	54.00	-1.70	1.36 V	93	20.40	31.90
2	*2412.00	109.50 PK			1.51 V	99	77.50	32.00
2	*2412.00	104.40 AV			1.51 V	99	72.40	32.00
3	4824.00	52.90 PK	74.00	-21.10	1.04 V	191	16.90	36.00
3	4824.00	48.30 AV	54.00	-5.70	1.04 V	191	12.30	36.00
4	7236.00	53.30 PK	74.00	-20.70	1.26 V	210	11.00	42.20
4	7236.00	40.20 AV	54.00	-13.80	1.26 V	210	-2.10	42.20

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247
 6. “ * “ : Fundamental frequency

CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH, 961hPa	TESTED BY	Phoenix Huang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.90 PK	74.00	-17.10	1.27 H	146	25.00	31.90
1	2390.00	44.70 AV	54.00	-9.30	1.27 H	146	12.80	31.90
2	*2437.00	96.00 PK			1.28 H	150	63.90	32.10
2	*2437.00	90.70 AV			1.28 H	150	58.60	32.10
3	2483.50	56.90 PK	74.00	-17.10	1.25 H	153	24.60	32.30
3	2483.50	45.10 AV	54.00	-8.90	1.25 H	153	12.80	32.30
4	4874.00	50.70 PK	74.00	-23.30	1.32 H	176	14.60	36.10
4	4874.00	44.00 AV	54.00	-10.00	1.32 H	176	7.90	36.10
5	7311.00	51.10 PK	74.00	-22.90	1.29 H	200	8.50	42.50
5	7311.00	38.20 AV	54.00	-15.80	1.29 H	200	-4.40	42.50

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	65.20 PK	74.00	-8.80	1.37 V	96	33.30	31.90
1	2390.00	53.10 AV	54.00	-0.90	1.37 V	96	21.20	31.90
2	*2437.00	116.50 PK			1.47 V	89	84.40	32.10
2	*2437.00	111.50 AV			1.47 V	89	79.40	32.10
3	2498.50	65.00 PK	74.00	-9.00	1.49 V	90	32.70	32.30
3	2498.50	53.00 AV	54.00	-1.00	1.49 V	90	20.70	32.30
4	4874.00	52.90 PK	74.00	-21.10	1.26 V	242	16.80	36.10
4	4874.00	49.10 AV	54.00	-4.90	1.26 V	242	13.00	36.10
5	7311.00	53.90 PK	74.00	-20.10	1.34 V	200	11.30	42.50
5	7311.00	39.90 AV	54.00	-14.10	1.34 V	200	-2.70	42.50

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency

CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH, 961hPa	TESTED BY	Phoenix Huang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

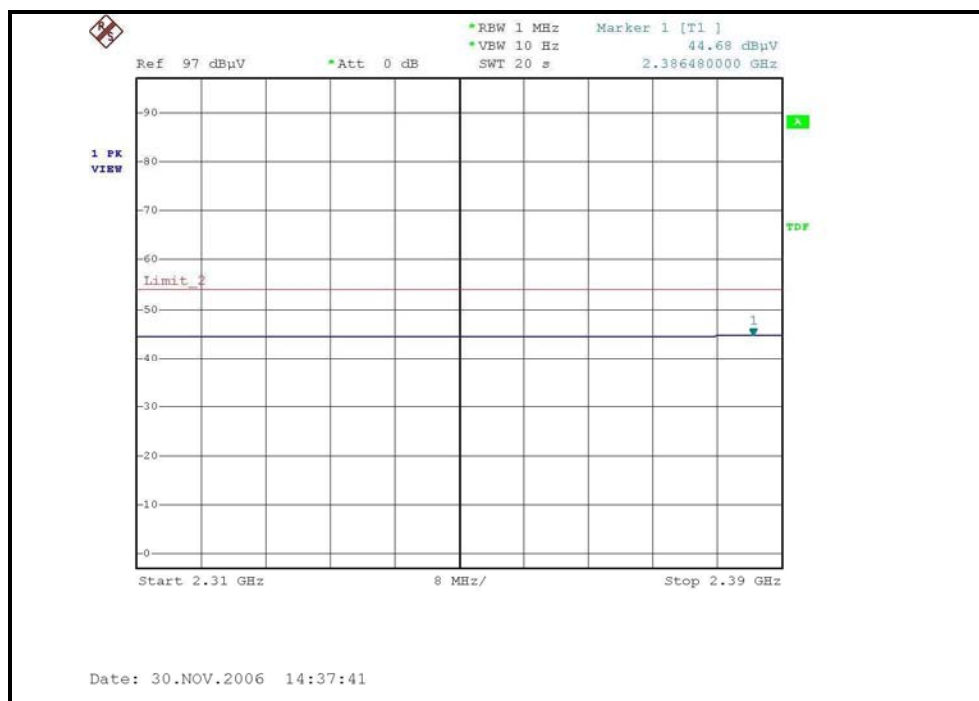
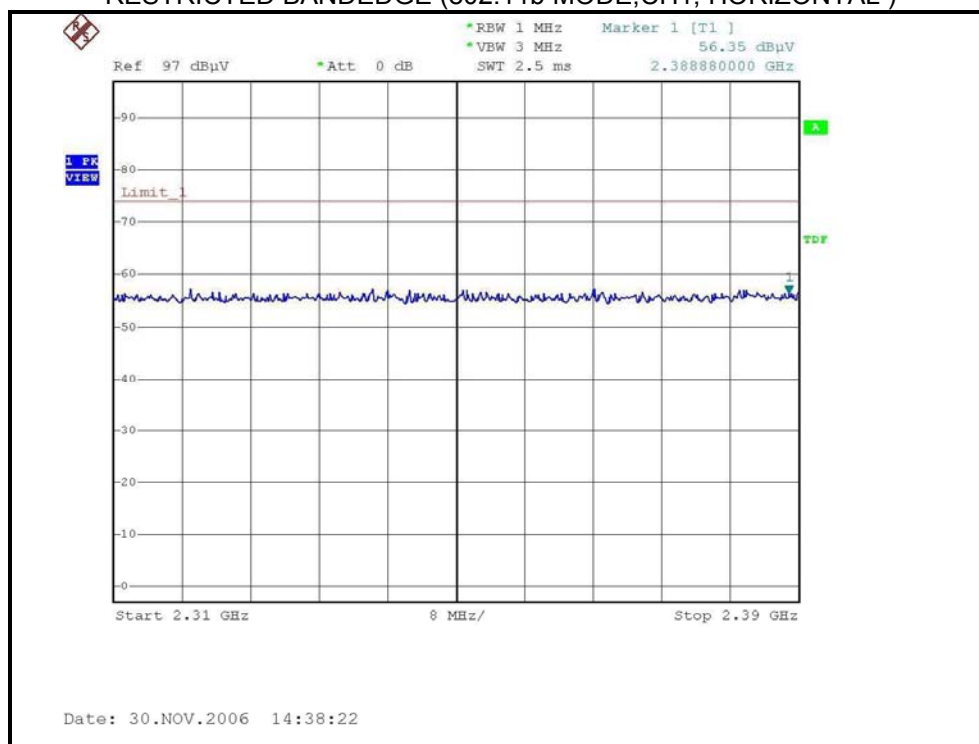
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	93.70 PK			1.63 H	227	61.50	32.20
1	*2462.00	85.80 AV			1.63 H	227	53.60	32.20
2	2483.50	56.80 PK	74.00	-17.20	1.13 H	320	24.50	32.30
2	2483.50	44.80 AV	54.00	-9.20	1.13 H	320	12.50	32.30
3	4924.00	49.90 PK	74.00	-24.10	1.47 H	120	13.70	36.20
3	4924.00	43.70 AV	54.00	-10.30	1.47 H	120	7.50	36.20
4	7386.00	59.00 PK	74.00	-15.00	1.60 H	1	16.30	42.80
4	7386.00	45.60 AV	54.00	-8.40	1.60 H	1	2.90	42.80

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

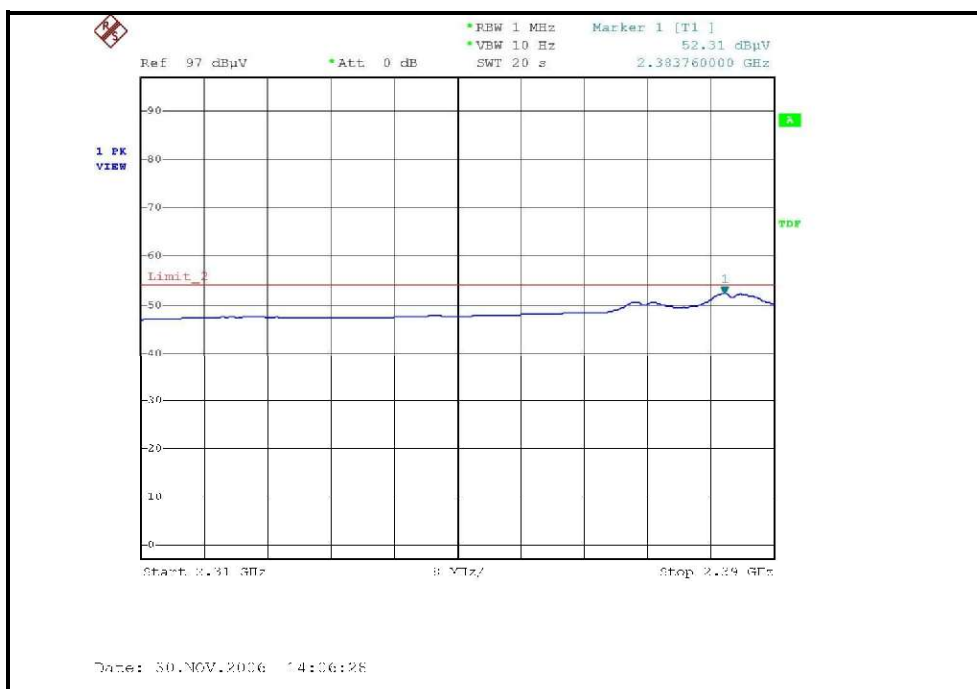
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	110.80 PK			1.47 V	87	78.60	32.20
1	*2462.00	106.00 AV			1.47 V	87	73.80	32.20
2	2490.60	65.70 PK	74.00	-8.30	1.45 V	84	33.40	32.30
2	2490.60	52.70 AV	54.00	-1.30	1.45 V	84	20.40	32.30
3	4924.00	52.50 PK	74.00	-21.50	1.15 V	146	16.30	36.20
3	4924.00	49.00 AV	54.00	-5.00	1.15 V	146	12.80	36.20
4	7386.00	54.40 PK	74.00	-19.60	1.61 V	158	11.70	42.80
4	7386.00	40.80 AV	54.00	-13.20	1.61 V	158	-1.90	42.80

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247
 6. “ * ” : Fundamental frequency

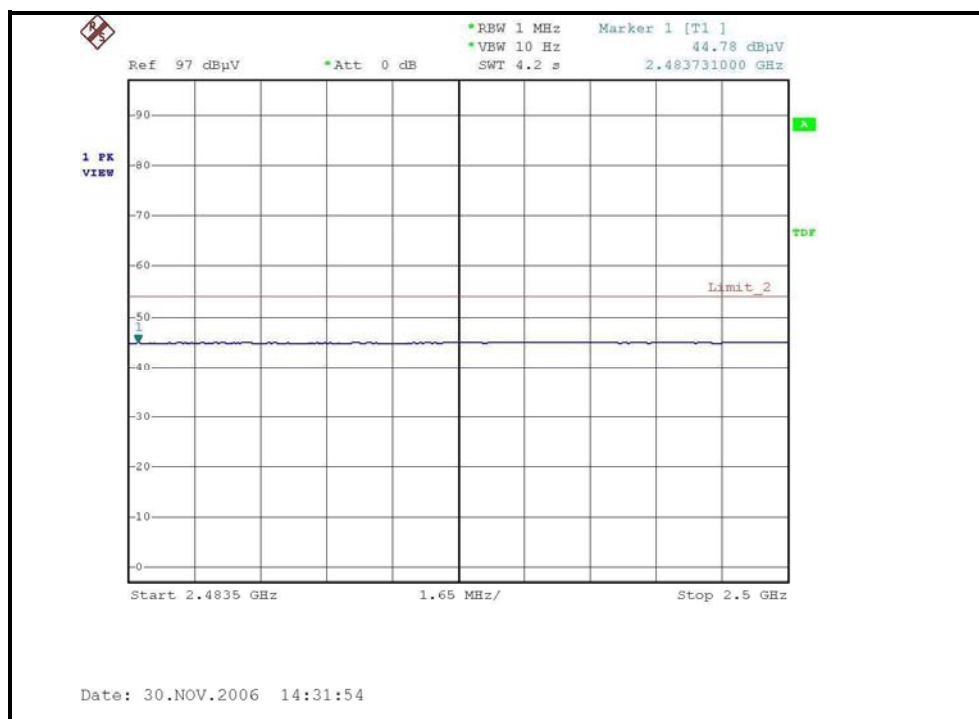
RESTRICTED BANDEDGE (802.11b MODE, CH1, HORIZONTAL)



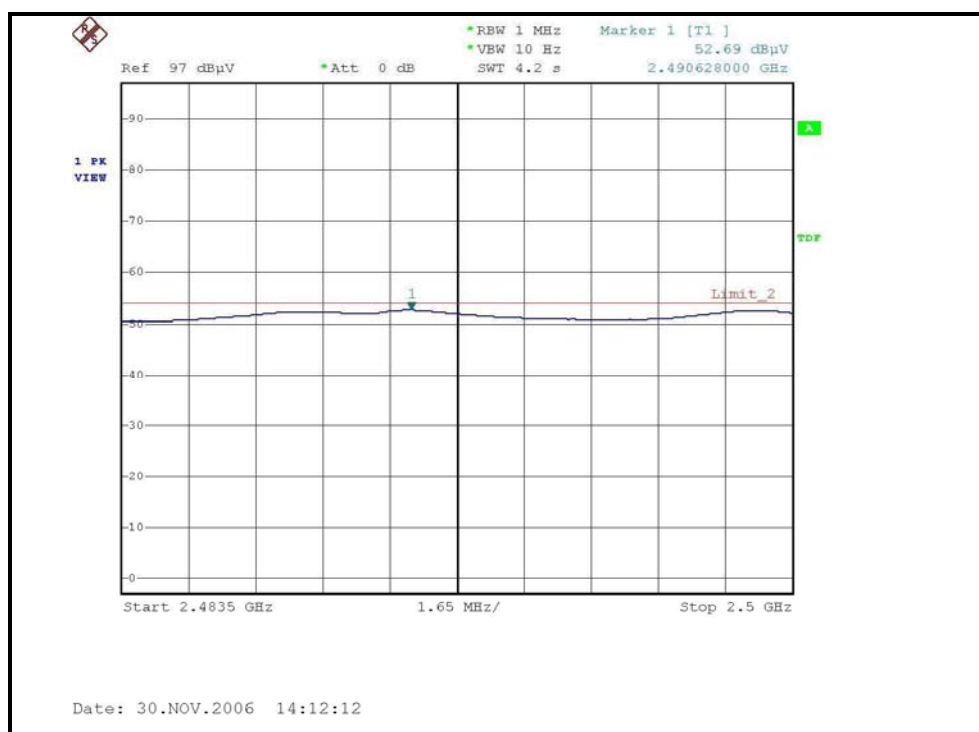
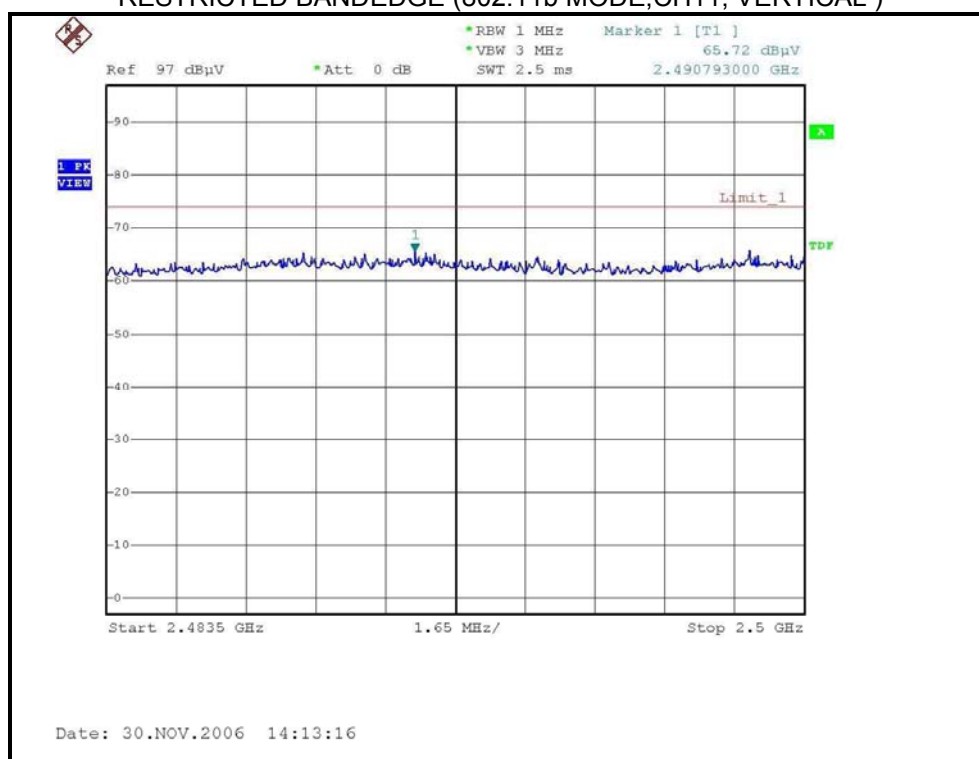
RESTRICTED BANDEDGE (802.11b MODE, CH1, VERTICAL)



RESTRICTED BANDEDGE (802.11b MODE, CH11, HORIZONTAL)



RESTRICTED BANDEDGE (802.11b MODE, CH11, VERTICAL)



802.11g OFDM modulation

CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH, 961hPa	TESTED BY	Phoenix Huang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.40 PK	74.00	-16.60	1.31 H	142	25.50	31.90
1	2390.00	44.70 AV	54.00	-9.30	1.31 H	142	12.80	31.90
2	*2412.00	96.10 PK			1.28 H	153	64.10	32.00
2	*2412.00	84.90 AV			1.28 H	153	52.90	32.00
3	4824.00	46.60 PK	74.00	-27.40	1.28 H	183	10.60	36.00
3	4824.00	33.50 AV	54.00	-20.50	1.28 H	183	-2.50	36.00
4	7236.00	51.60 PK	74.00	-22.40	1.03 H	115	9.30	42.20
4	7236.00	38.40 AV	54.00	-15.60	1.03 H	115	-3.90	42.20

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	68.00 PK	74.00	-6.00	1.35 V	78	36.10	31.90
1	2390.00	52.40 AV	54.00	-1.60	1.35 V	78	20.50	31.90
2	*2412.00	114.10 PK			1.34 V	355	82.10	32.00
2	*2412.00	103.40 AV			1.34 V	355	71.40	32.00
3	4824.00	48.40 PK	74.00	-25.60	1.13 V	237	12.40	36.00
3	4824.00	34.70 AV	54.00	-19.30	1.13 V	237	-1.30	36.00
4	7236.00	51.50 PK	74.00	-22.50	1.33 V	262	9.20	42.20
4	7236.00	38.50 AV	54.00	-15.50	1.33 V	262	-3.80	42.20

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247
 6. “ * ” : Fundamental frequency

CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH, 961hPa	TESTED BY	Phoenix Huang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.20 PK	74.00	-16.80	1.26 H	158	25.30	31.90
1	2390.00	44.60 AV	54.00	-9.40	1.26 H	158	12.70	31.90
2	*2437.00	98.70 PK			1.28 H	152	66.60	32.10
2	*2437.00	87.70 AV			1.28 H	152	55.60	32.10
3	2483.50	57.20 PK	74.00	-16.80	1.28 H	153	24.90	32.30
3	2483.50	44.70 AV	54.00	-9.30	1.28 H	153	12.40	32.30
4	4874.00	49.70 PK	74.00	-24.30	1.36 H	180	13.60	36.10
4	4874.00	36.20 AV	54.00	-17.80	1.36 H	180	0.10	36.10
5	7311.00	51.40 PK	74.00	-22.60	1.39 H	188	8.80	42.50
5	7311.00	39.00 AV	54.00	-15.00	1.39 H	188	-3.60	42.50

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	66.10 PK	74.00	-7.90	1.36 V	92	34.20	31.90
1	2390.00	51.90 AV	54.00	-2.10	1.36 V	92	20.00	31.90
2	*2437.00	118.50 PK			1.46 V	92	86.40	32.10
2	*2437.00	108.10 AV			1.46 V	92	76.00	32.10
3	2488.60	66.90 PK	74.00	-7.10	1.43 V	87	34.60	32.30
3	2488.60	52.40 AV	54.00	-1.60	1.43 V	87	20.10	32.30
4	4874.00	51.50 PK	74.00	-22.50	1.11 V	239	15.40	36.10
4	4874.00	38.50 AV	54.00	-15.50	1.11 V	239	2.40	36.10
5	7311.00	53.70 PK	74.00	-20.30	1.54 V	0	11.10	42.50
5	7311.00	39.80 AV	54.00	-14.20	1.54 V	0	-2.80	42.50

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247
 6. “ * “ : Fundamental frequency

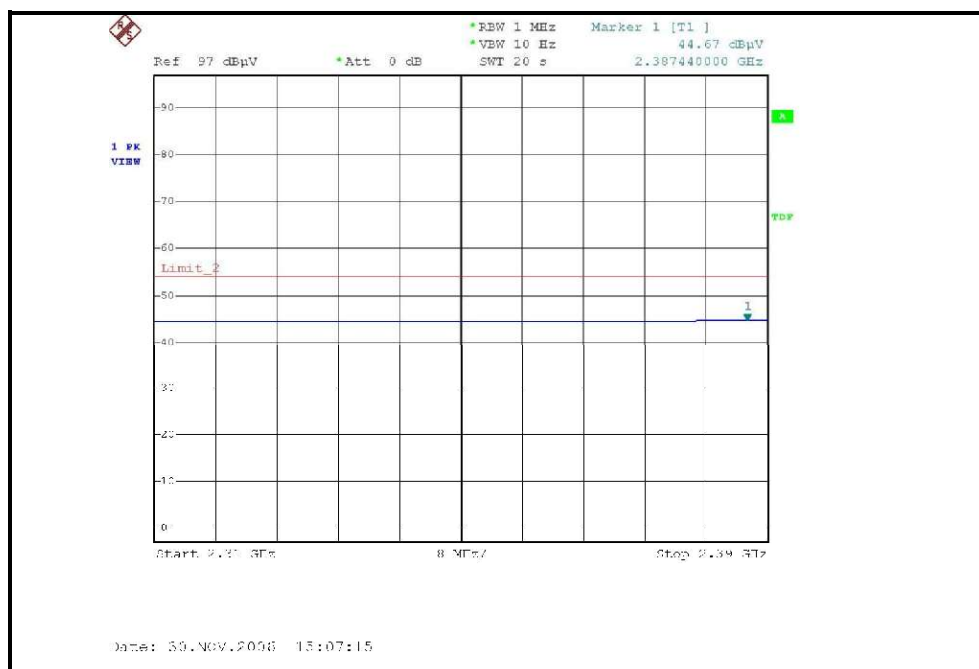
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH, 961hPa	TESTED BY	Phoenix Huang

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	93.20 PK			1.64 H	226	61.00	32.20
1	*2462.00	82.50 AV			1.64 H	226	50.30	32.20
2	2483.50	56.50 PK	74.00	-17.50	1.42 H	224	24.20	32.30
2	2483.50	45.30 AV	54.00	-8.70	1.42 H	224	13.00	32.30
3	4924.00	46.90 PK	74.00	-27.10	1.41 H	143	10.70	36.20
3	4924.00	36.50 AV	54.00	-17.50	1.41 H	143	0.30	36.20
4	7386.00	51.90 PK	74.00	-22.10	1.21 H	355	9.20	42.80
4	7386.00	38.70 AV	54.00	-15.30	1.21 H	355	-4.00	42.80

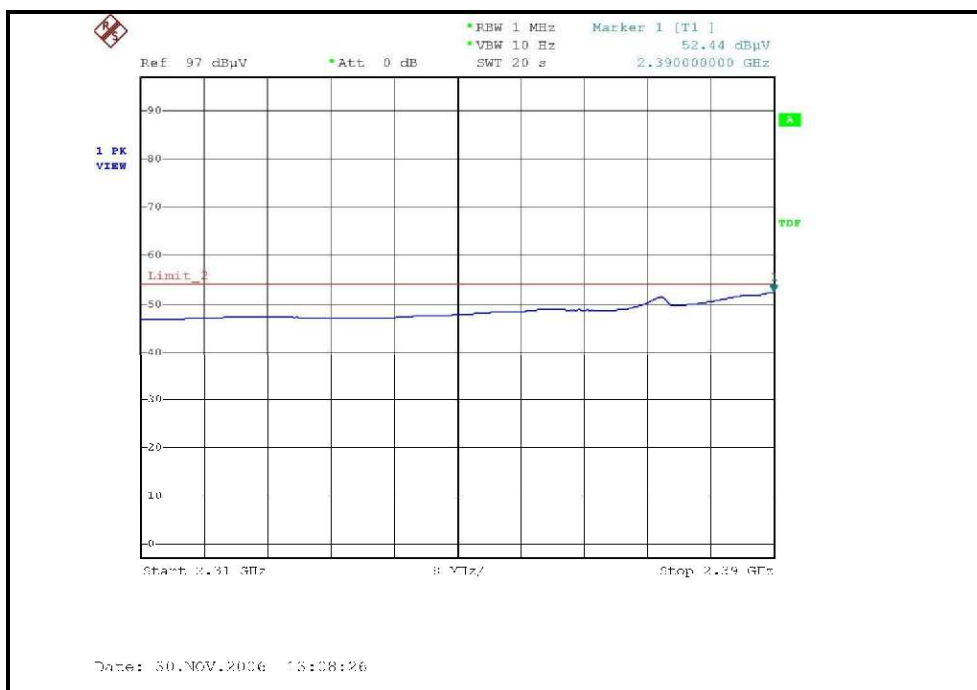
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	113.00 PK			1.47 V	88	80.80	32.20
1	*2462.00	102.20 AV			1.47 V	88	70.00	32.20
2	2498.38	66.40 PK	74.00	-7.60	1.45 V	86	34.10	32.30
2	2498.38	52.80 AV	54.00	-1.20	1.45 V	86	20.50	32.30
3	4924.00	47.70 PK	74.00	-26.30	1.01 V	134	11.50	36.20
3	4924.00	33.80 AV	54.00	-20.20	1.01 V	134	-2.40	36.20
4	7386.00	52.50 PK	74.00	-21.50	1.21 V	137	9.80	42.80
4	7386.00	38.90 AV	54.00	-15.10	1.21 V	137	-3.80	42.80

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247
 6. “ * “ : Fundamental frequency

RESTRICTED BANDEDGE (802.11g MODE, CH1, HORIZONTAL)



RESTRICTED BANDEDGE (802.11g MODE, CH1, VERTICAL)



RESTRICTED BANDEDGE (802.11g MODE, CH11, HORIZONTAL)



RESTRICTED BANDEDGE (802.11g MODE, CH11, VERTICAL)



4.2.10 TEST RESULTS (ANTENNA 3)

802.11b DSSS modulation

CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	18deg. C, 68%RH, 961hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2383.70	57.50 PK	74.00	-16.50	1.53 H	211	27.20	30.30
1	2383.70	45.70 AV	54.00	-8.30	1.53 H	211	15.40	30.30
2	*2412.00	101.60 PK			1.49 H	213	71.20	30.40
2	*2412.00	93.00 AV			1.49 H	213	62.60	30.40
3	4824.00	50.60 PK	74.00	-23.40	1.54 H	2	14.90	35.70
3	4824.00	44.80 AV	54.00	-9.20	1.54 H	2	9.10	35.70
4	7236.00	52.30 PK	74.00	-21.70	1.22 H	16	11.10	41.30
4	7236.00	40.00 AV	54.00	-14.00	1.22 H	16	-1.20	41.30
5	9648.00	56.90 PK	81.60	-24.70	1.83 H	316	12.10	44.80
5	9648.00	48.60 AV	73.00	-24.40	1.83 H	316	3.80	44.80

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2383.70	63.40 PK	74.00	-10.60	1.32 V	160	33.10	30.30
1	2383.70	52.20 AV	54.00	-1.80	1.32 V	160	21.90	30.30
2	*2412.00	112.00 PK			1.30 V	163	81.60	30.40
2	*2412.00	103.90 AV			1.30 V	163	73.50	30.40
3	4824.00	50.70 PK	74.00	-23.30	1.44 V	20	15.00	35.70
3	4824.00	43.40 AV	54.00	-10.60	1.44 V	20	7.70	35.70
4	7236.00	52.50 PK	74.00	-21.50	1.25 V	165	11.30	41.30
4	7236.00	40.00 AV	54.00	-14.00	1.25 V	165	-1.20	41.30
5	9648.00	60.00 PK	92.00	-32.00	1.70 V	35	15.20	44.80
5	9648.00	53.00 AV	83.90	-30.90	1.70 V	35	8.20	44.80

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247
 6. “ * ” : Fundamental frequency

CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	18deg. C, 68%RH, 961hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.20 PK	74.00	-17.80	1.43 H	243	25.90	30.30
1	2390.00	45.00 AV	54.00	-9.00	1.43 H	243	14.70	30.30
2	*2437.00	107.20 PK			1.50 H	215	76.70	30.50
2	*2437.00	98.90 AV			1.50 H	215	68.40	30.50
3	2483.50	55.80 PK	74.00	-18.20	1.42 H	213	25.10	30.70
3	2483.50	45.50 AV	54.00	-8.50	1.42 H	213	14.80	30.70
4	4874.00	50.60 PK	74.00	-23.40	1.82 H	5	14.80	35.90
4	4874.00	45.80 AV	54.00	-8.20	1.82 H	5	10.00	35.90
5	7311.00	52.90 PK	74.00	-21.10	1.08 H	25	11.40	41.50
5	7311.00	40.20 AV	54.00	-13.80	1.08 H	25	-1.30	41.50
6	9748.00	61.70 PK	87.20	-25.50	1.58 H	7	16.80	44.90
6	9748.00	57.20 AV	78.90	-21.70	1.58 H	7	12.30	44.90

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2386.60	62.60 PK	74.00	-11.40	1.60 V	174	32.40	30.30
1	2386.60	51.50 AV	54.00	-2.50	1.60 V	174	21.20	30.30
2	*2437.00	118.70 PK			1.28 V	161	88.20	30.50
2	*2437.00	110.20 AV			1.28 V	161	79.70	30.50
3	2498.50	63.50 PK	74.00	-10.50	1.50 V	158	32.70	30.80
3	2498.50	52.30 AV	54.00	-1.70	1.50 V	158	21.50	30.80
4	4874.00	53.10 PK	74.00	-20.90	1.56 V	18	17.30	35.90
4	4874.00	48.40 AV	54.00	-5.60	1.56 V	18	12.60	35.90
5	7311.00	54.20 PK	74.00	-19.80	1.40 V	172	12.70	41.50
5	7311.00	43.50 AV	54.00	-10.50	1.40 V	172	2.00	41.50
6	9748.00	65.60 PK	98.70	-33.10	1.54 V	357	20.70	44.90
6	9748.00	62.50 AV	90.20	-27.70	1.54 V	357	17.60	44.90

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247
 6. “ * ” : Fundamental frequency

CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	CCK	TRANSFER RATE	11Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	18deg. C, 68%RH, 961hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

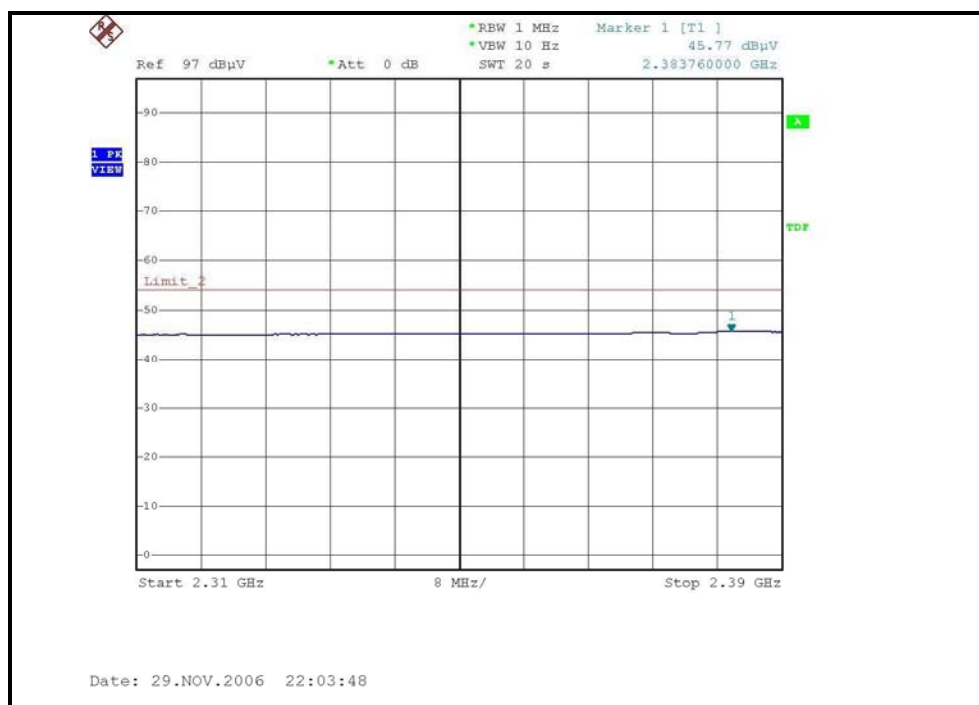
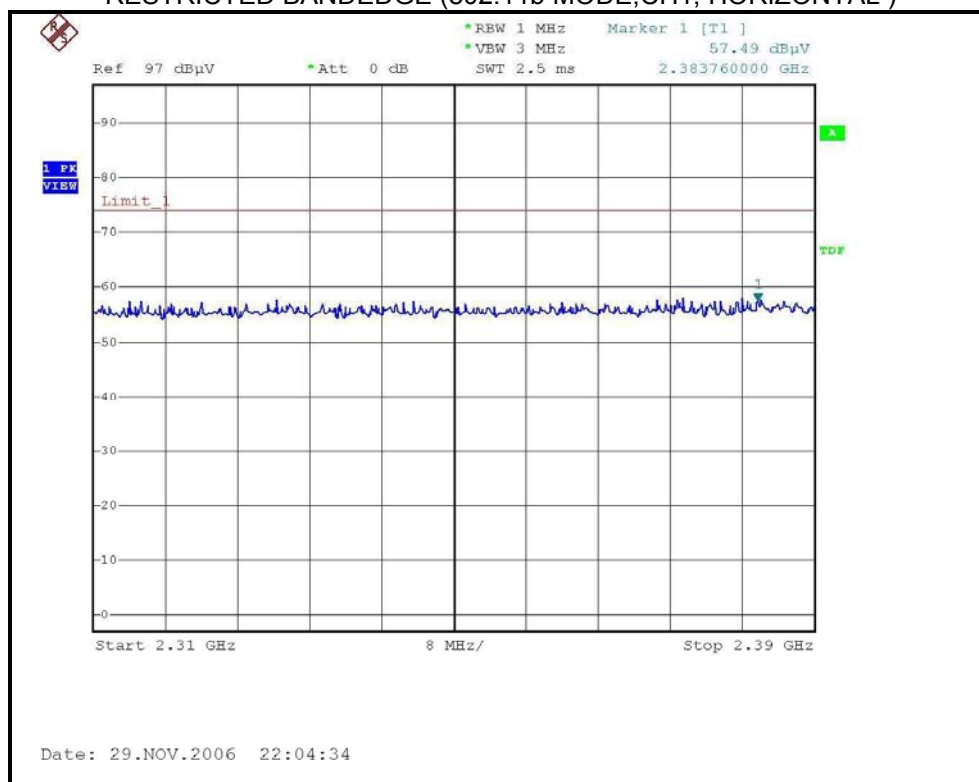
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	100.50 PK			1.50 H	215	69.90	30.60
1	*2462.00	91.60 AV			1.50 H	215	61.00	30.60
2	2483.50	57.00 PK	74.00	-17.00	1.50 H	215	26.30	30.70
2	2483.50	45.30 AV	54.00	-8.70	1.50 H	215	14.70	30.70
3	4924.00	50.80 PK	74.00	-23.20	1.58 H	10	14.80	36.00
3	4924.00	45.00 AV	54.00	-9.00	1.58 H	10	9.00	36.00
4	7386.00	52.50 PK	74.00	-21.50	1.02 H	35	10.80	41.60
4	7386.00	39.90 AV	54.00	-14.10	1.02 H	35	-1.80	41.60
5	9848.00	56.70 PK	80.50	-23.80	1.75 H	323	11.80	44.90
5	9848.00	48.40 AV	71.60	-23.20	1.75 H	323	3.50	44.90

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

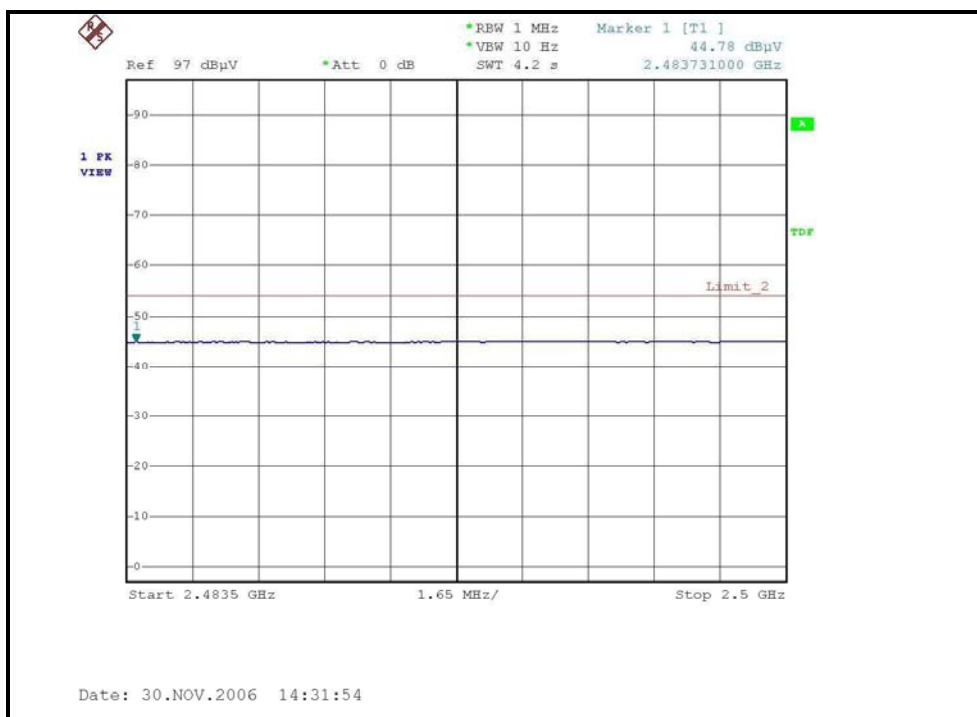
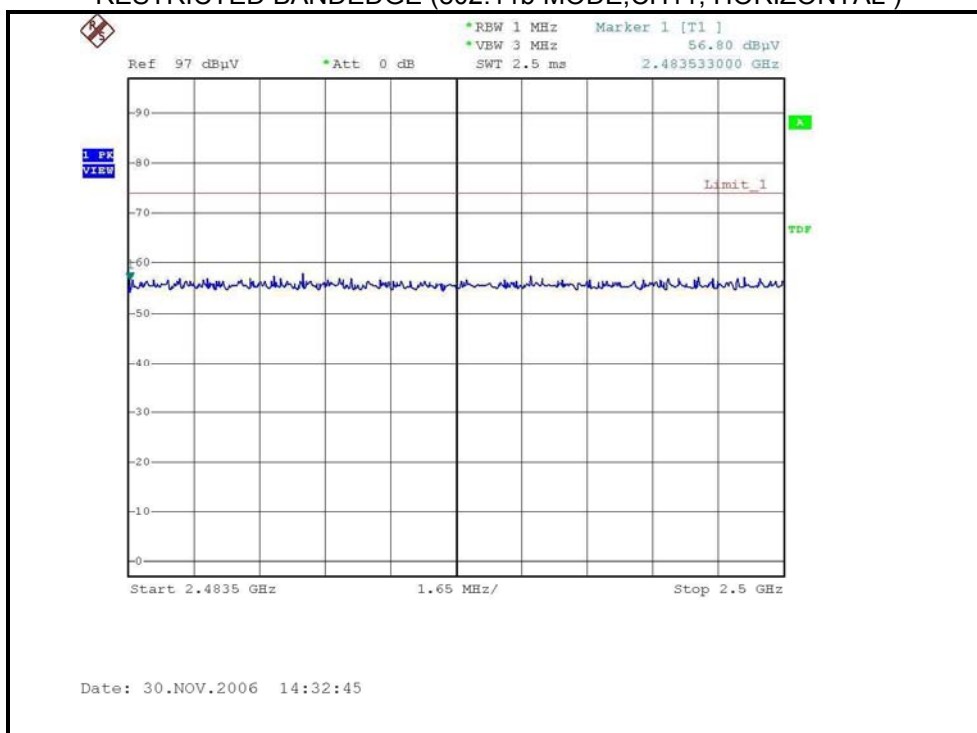
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	112.40 PK			1.46 V	166	81.80	30.60
1	*2462.00	104.10 AV			1.46 V	166	73.50	30.60
2	2490.60	63.40 PK	74.00	-10.60	1.50 V	161	32.70	30.70
2	2490.60	52.50 AV	54.00	-1.50	1.50 V	161	21.70	30.70
3	4924.00	51.80 PK	74.00	-22.20	1.20 V	168	15.80	36.00
3	4924.00	45.20 AV	54.00	-8.80	1.20 V	168	9.20	36.00
4	7386.00	53.10 PK	74.00	-20.90	1.64 V	12	11.40	41.60
4	7386.00	40.40 AV	54.00	-13.60	1.64 V	12	-1.30	41.60
5	9848.00	59.90 PK	92.40	-32.50	1.83 V	22	15.00	44.90
5	9848.00	53.20 AV	84.10	-30.90	1.83 V	22	8.30	44.90

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247
 6. “ * ” : Fundamental frequency

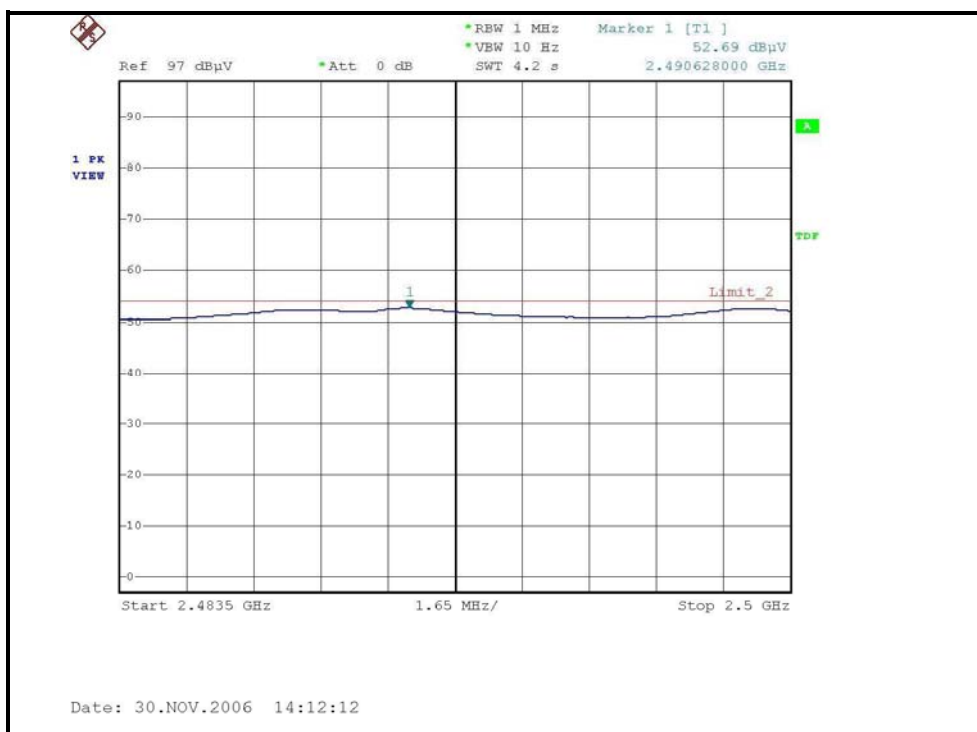
RESTRICTED BANDEDGE (802.11b MODE, CH1, HORIZONTAL)



RESTRICTED BANDEDGE (802.11b MODE, CH11, HORIZONTAL)



RESTRICTED BANDEDGE (802.11b MODE, CH11, VERTICAL)



802.11g OFDM modulation

CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	18deg. C, 68%RH, 961hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.80 PK	74.00	-17.20	1.42 H	315	26.50	30.30
1	2390.00	45.80 AV	54.00	-8.20	1.42 H	315	15.60	30.30
2	*2412.00	101.20 PK			1.45 H	316	70.80	30.40
2	*2412.00	90.30 AV			1.45 H	316	59.90	30.40
3	4824.00	46.80 PK	74.00	-27.20	1.43 H	357	11.10	35.70
3	4824.00	34.50 AV	54.00	-19.50	1.43 H	357	-1.20	35.70
4	7386.00	52.50 PK	74.00	-21.50	1.25 H	7	10.80	41.60
4	7386.00	39.90 AV	54.00	-14.10	1.25 H	7	-1.80	41.60
5	9648.00	55.40 PK	81.20	-25.80	1.12 H	20	10.60	44.80
5	9648.00	43.20 AV	70.30	-27.10	1.12 H	20	-1.60	44.80

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	67.80 PK	74.00	-6.20	1.31 V	164	37.60	30.30
1	2390.00	52.70 AV	54.00	-1.30	1.31 V	164	22.40	30.30
2	*2412.00	112.90 PK			1.30 V	161	82.50	30.40
2	*2412.00	102.20 AV			1.30 V	161	71.80	30.40
3	4824.00	48.40 PK	74.00	-25.60	1.80 V	58	12.70	35.70
3	4824.00	35.70 AV	54.00	-18.30	1.80 V	58	0.00	35.70
4	7386.00	52.80 PK	74.00	-21.20	1.26 V	168	11.10	41.60
4	7386.00	40.30 AV	54.00	-13.70	1.26 V	168	-1.40	41.60
5	9648.00	59.10 PK	92.90	-33.80	1.75 V	36	14.30	44.80
5	9648.00	44.80 AV	82.20	-37.40	1.75 V	36	0.00	44.80

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247
 6. “ * ” : Fundamental frequency

CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	18deg. C, 68%RH, 961hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.50 PK	74.00	-16.50	1.42 H	331	27.20	30.30
1	2390.00	45.40 AV	54.00	-8.60	1.42 H	331	15.10	30.30
2	*2437.00	105.20 PK			1.44 H	313	74.70	30.50
2	*2437.00	94.60 AV			1.44 H	313	64.10	30.50
3	2483.50	56.10 PK	74.00	-17.90	1.41 H	324	25.40	30.70
3	2483.50	45.60 AV	54.00	-8.40	1.41 H	324	14.90	30.70
4	4874.00	51.00 PK	74.00	-23.00	1.13 H	329	15.20	35.90
4	4874.00	37.80 AV	54.00	-16.20	1.13 H	329	2.00	35.90
5	7311.00	51.90 PK	74.00	-22.10	1.00 H	8	10.40	41.50
5	7311.00	39.40 AV	54.00	-14.60	1.00 H	8	-2.10	41.50
6	9748.00	59.30 PK	85.20	-25.90	1.16 H	31	14.40	44.90
6	9748.00	45.80 AV	74.60	-28.80	1.16 H	31	0.90	44.90

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	64.20 PK	74.00	-9.80	1.26 V	162	33.90	30.30
1	2390.00	50.80 AV	54.00	-3.20	1.26 V	162	20.50	30.30
2	*2437.00	117.90 PK			1.30 V	160	87.40	30.50
2	*2437.00	107.40 AV			1.30 V	160	76.90	30.50
3	2483.50	65.60 PK	74.00	-8.40	1.26 V	162	34.90	30.70
3	2483.50	53.00 AV	54.00	-1.00	1.26 V	162	22.30	30.70
4	4874.00	49.60 PK	74.00	-24.40	1.00 V	60	13.80	35.90
4	4874.00	39.00 AV	54.00	-15.00	1.00 V	60	3.20	35.90
5	7311.00	54.30 PK	74.00	-19.70	1.68 V	169	12.80	41.50
5	7311.00	41.90 AV	54.00	-12.10	1.68 V	169	0.40	41.50
6	9748.00	65.30 PK	97.90	-32.60	1.55 V	5	20.40	44.90
6	9748.00	51.00 AV	87.40	-36.40	1.55 V	5	6.10	44.90

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247
 6. “ * ” : Fundamental frequency

CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	18deg. C, 68%RH, 961hPa	TESTED BY	Sky Liao

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

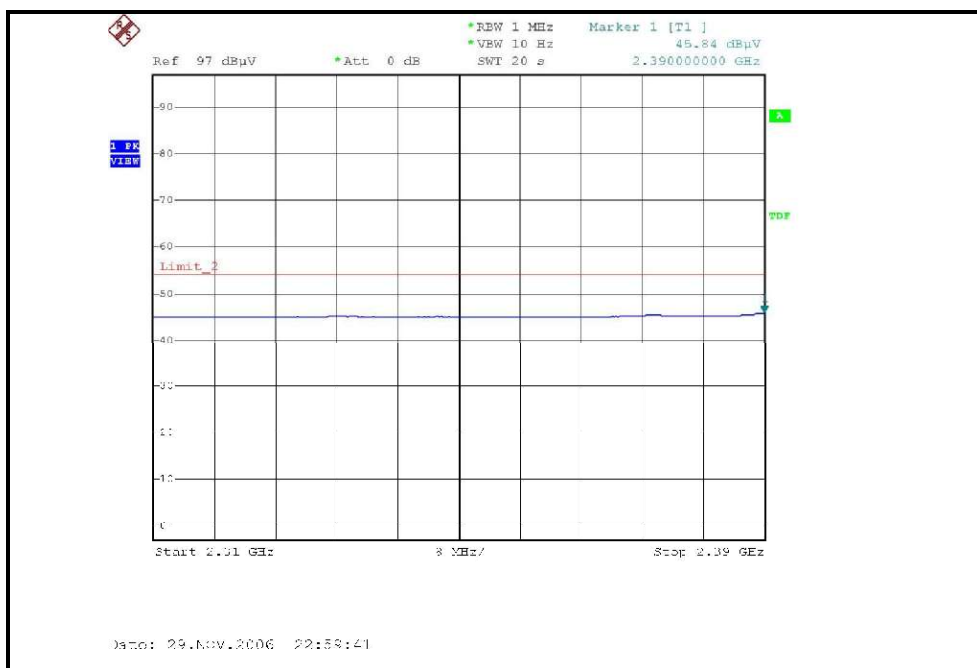
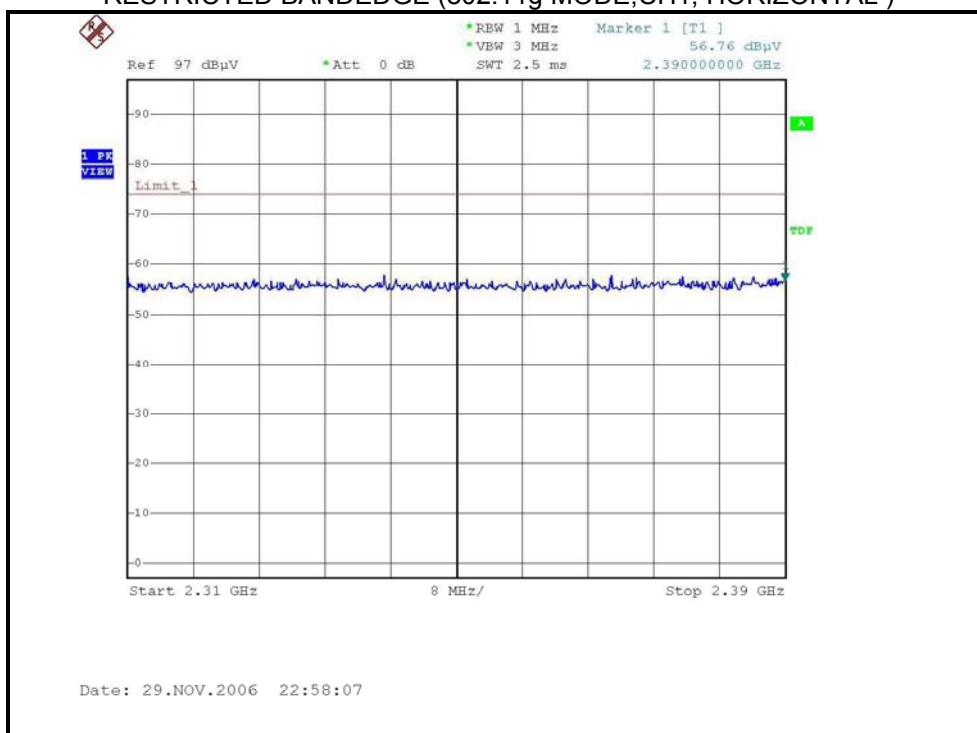
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	97.30 PK			1.42 H	315	66.70	30.60
1	*2462.00	86.80 AV			1.42 H	315	56.20	30.60
2	2483.50	55.90 PK	74.00	-18.10	1.42 H	315	25.20	30.70
2	2483.50	45.40 AV	54.00	-8.60	1.42 H	315	14.70	30.70
3	4924.00	46.80 PK	74.00	-27.20	1.38 H	2	10.80	36.00
3	4924.00	34.60 AV	54.00	-19.40	1.38 H	2	-1.40	36.00
4	7386.00	52.40 PK	74.00	-21.60	1.28 H	15	10.70	41.60
4	7386.00	39.50 AV	54.00	-14.50	1.28 H	15	-2.20	41.60
5	9848.00	54.90 PK	77.30	-22.40	1.09 H	28	10.00	44.90
5	9848.00	42.90 AV	66.80	-23.90	1.09 H	28	-2.00	44.90

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

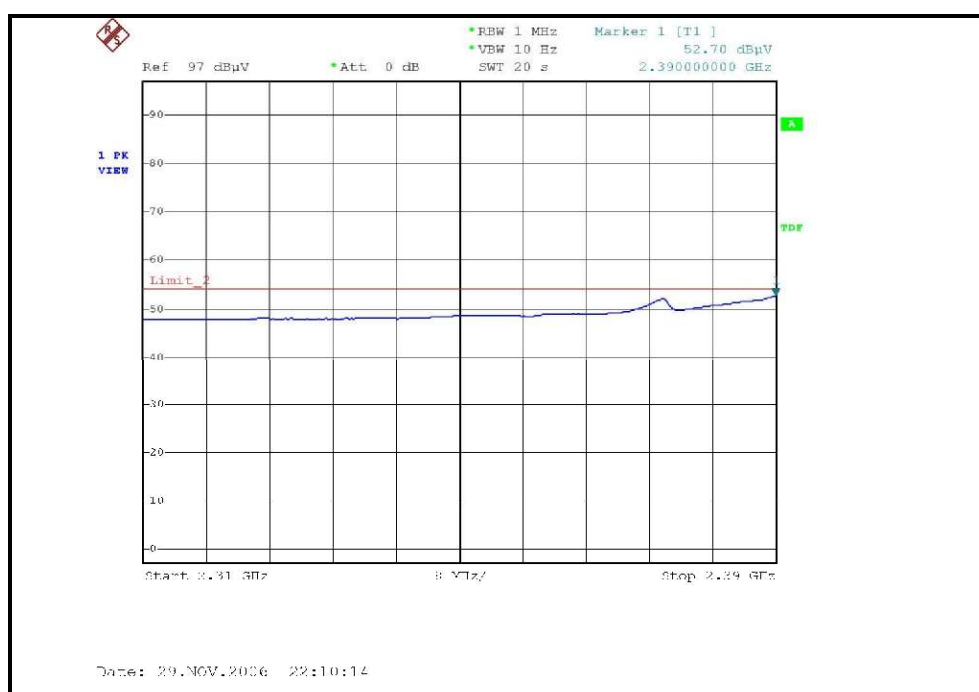
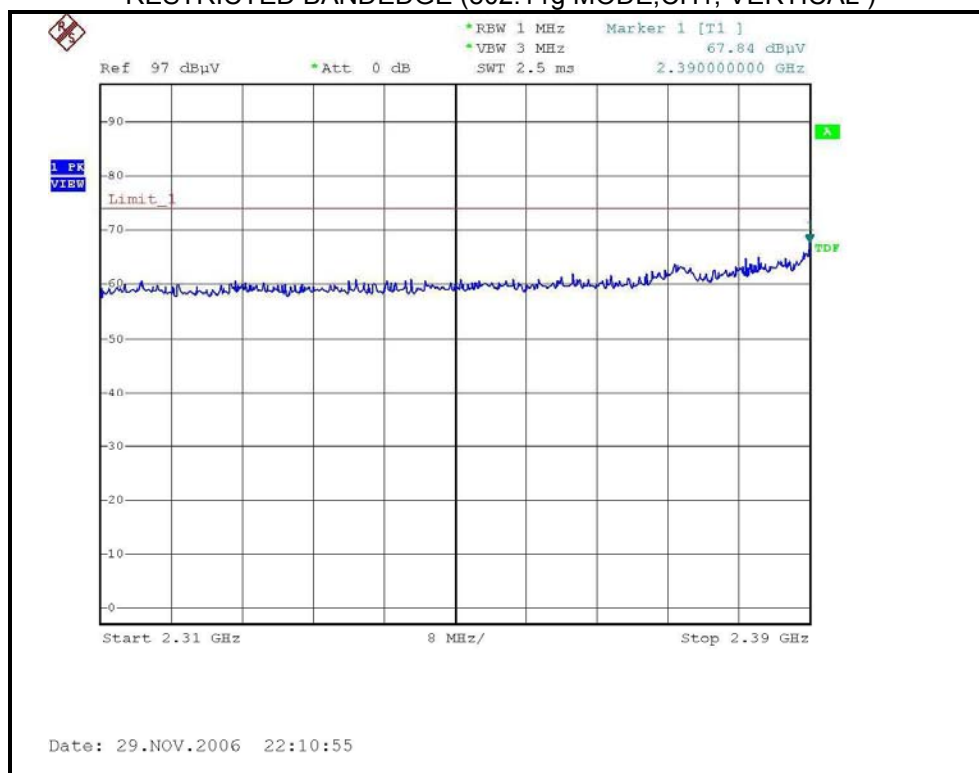
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	111.50 PK			1.52 V	158	80.90	30.60
1	*2462.00	100.90 AV			1.52 V	158	70.30	30.60
2	2483.50	65.00 PK	74.00	-9.00	1.52 V	158	34.30	30.70
2	2483.50	52.50 AV	54.00	-1.50	1.52 V	158	21.90	30.70
3	4924.00	48.40 PK	74.00	-25.60	1.72 V	62	12.40	36.00
3	4924.00	35.60 AV	54.00	-18.40	1.72 V	62	-0.40	36.00
4	7386.00	52.50 PK	74.00	-21.50	1.33 V	160	10.80	41.60
4	7386.00	40.10 AV	54.00	-13.90	1.33 V	160	-1.60	41.60
5	9848.00	58.70 PK	91.50	-32.80	1.68 V	42	13.80	44.90
5	9848.00	44.70 AV	80.90	-36.20	1.68 V	42	-0.20	44.90

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. The limit value is defined as per 15.247
 6. " * " : Fundamental frequency

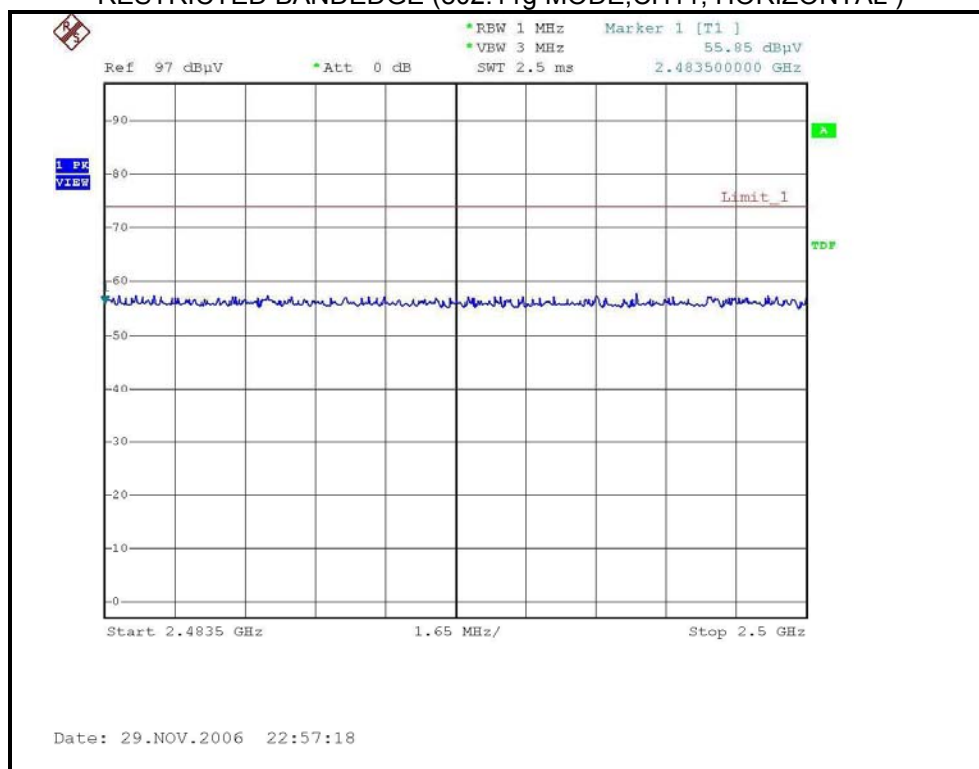
RESTRICTED BANDEDGE (802.11g MODE, CH1, HORIZONTAL)



RESTRICTED BANDEDGE (802.11g MODE, CH1, VERTICAL)



RESTRICTED BANDEDGE (802.11g MODE, CH11, HORIZONTAL)



RESTRICTED BANDEDGE (802.11g MODE, CH11, VERTICAL)

