

FCC TEST REPORT (15.247)

REPORT NO.: RF950525L06

MODEL NO.: BW1250

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1. CERTIFICATION

PRODUCT: Dual Radio 2.4GHz/5GHz Access Point

MODEL: BW1250

BRAND: BROWAN

APPLICANT: Gemtek Technology Co., Ltd.

TEST SAMPLE: ENGINEERING SAMPLE

TESTED: Aug. 27 ~ Oct. 04, 2006

STANDARDS: FCC Part 15, Subpart C (Section 15.247),
ANSI C63.4-2003

The above equipment 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 : Rennie Wang , **DATE:** Oct. 11, 2006
Rennie Wang

TECHNICAL
ACCEPTANCE : Long Chen , **DATE:** Oct. 11, 2006
Responsible for RF Long Chen

APPROVED BY : Gary Chang , **DATE:** Oct. 11, 2006
Gary Chang / Supervisor

2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

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 -10.32dB at 0.270MHz
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 -1.03dB at 68.88MHz
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.

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:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	3.62 dB
	200MHz ~1000MHz	3.64 dB
	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	Dual Radio 2.4GHz/5GHz Access Point
MODEL NO.	BW1250
FCC ID	MXF-A950806AG
POWER SUPPLY	48Vdc from POE 12Vdc from AC adapter
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	802.11b & 802.11g: 2.412 ~ 2.462GHz 802.11a: 5.150 ~ 5.250GHz, 5.725 ~ 5.850GHz
NUMBER OF CHANNEL	802.11b & 802.11g: 11 802.11a: 8
CHANNEL SPACING	802.11b & 802.11g: 5MHz 802.11a: 20MHz
OUTPUT POWER	226.223mW for 2.4GHz (NOTE 5) 30.200mW for 5.150 ~ 5.250GHz 79.799mW for 5.725 ~ 5.850GHz
ANTENNA TYPE	Dualband Built-in directional antenna with 6dBi gain (for 2.4GHz) Dualband Built-in directional antenna with 8dBi gain (for 5.0GHz)
DATA CABLE	NA
I/O PORTS	RJ45, RS232
ASSOCIATED DEVICES	NA

NOTE:

1. The EUT was powered with following adapter:

Brand	JET UNIFIVE CO., LTD.
Model	UIT312-1210
Input Power	100-240Vac, 50-60Hz, 0.3A
Output Power	12Vdc, 1A
Power Line	1.8m non-shielded cable with one core

2. Emission of Inter-modulation has been evaluated and is compliance with related rule.
3. The POE is for support unit only.
4. Two radios are under firmware controlled not to use the same channel or a channel which are separated less than 4 channels.
5. The sum of the two biggest power value = 113.763mW (channel 4) + 112.460mW (channel 6) = 226.223mW.
6. The EUT operates in both the 5GHz and 2.4GHz Bands and compatibility with 802.11a and 802.11b, 802.11g technology.

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

3.2 DESCRIPTION OF TEST MODES

Operated in 2400 ~ 2483.5MHz band:

11 channels are provided to the 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		

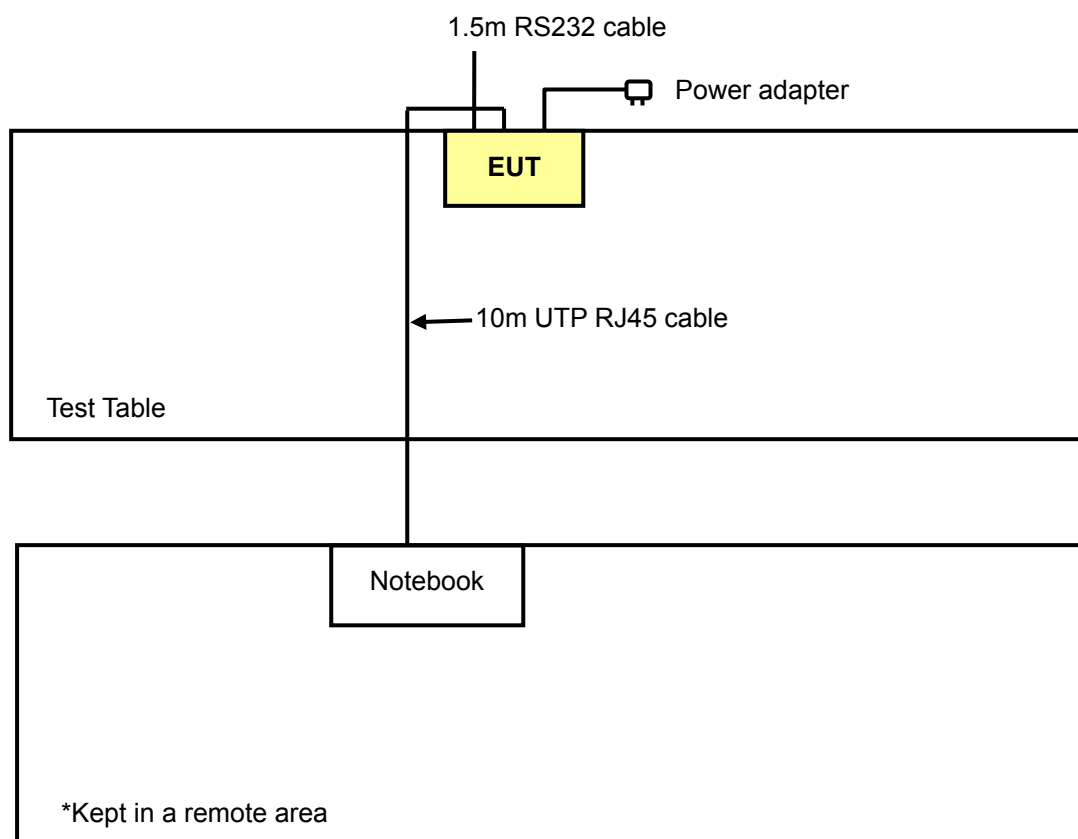
Operated in 5725 ~ 5850MHz band:

4 channels are provided to this EUT:

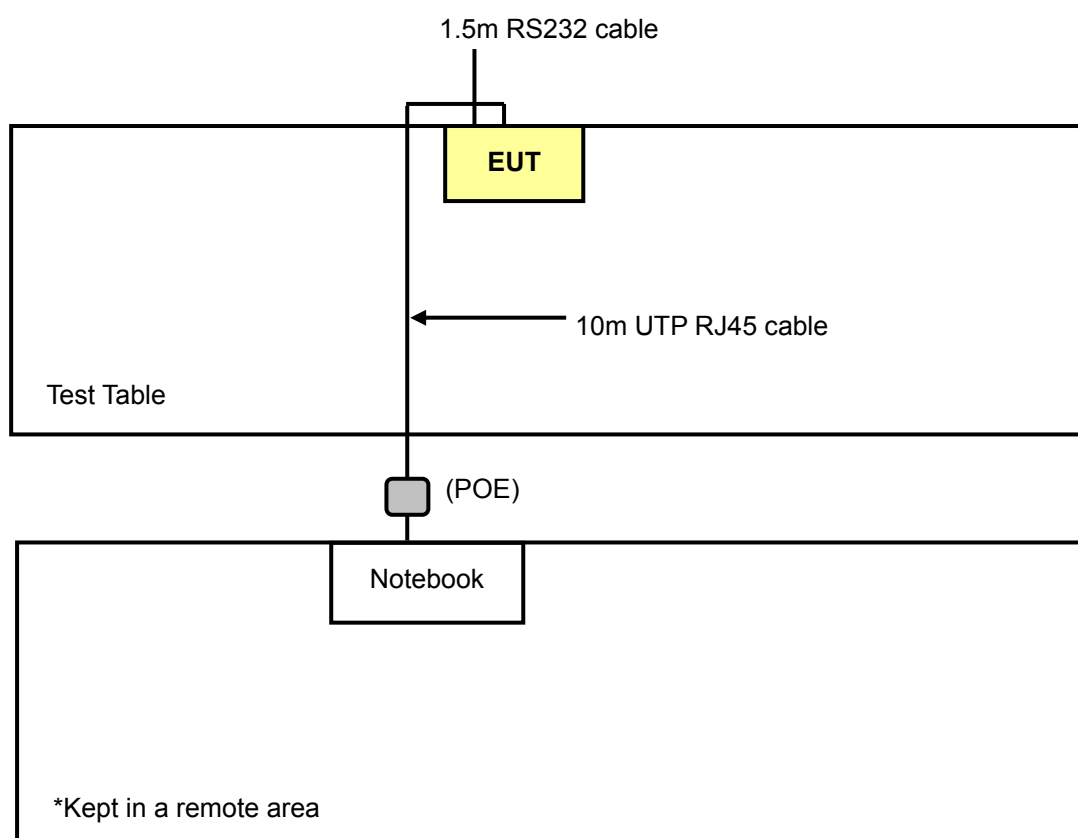
CHANNEL	FREQUENCY
1	5745 MHz
2	5765 MHz
3	5785 MHz
4	5805 MHz

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST

Test mode A (adapter mode):



Test mode B (POE mode):



3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	PLC	RE<1G	RE≥1G	APCM	
A	√	√	NOTE	NOTE	Adapter mode
B	√	√	√	√	POE mode

Where **PLC**: Power Line Conducted Emission

RE<1G: Radiated Emission below 1GHz

RE≥1G: Radiated Emission above 1GHz

APCM: Antenna Port Conducted Measurement

NOTE: After pre-testing each mode, the worst case had been found on mode B.

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.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	TX
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	Single
A	802.11g & 802.11g	1 to 11	1 & 6, 4 & 9, 6 & 11	OFDM & OFDM	BPSK & BPSK	6 & 6	Dual
B	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	Single
B	802.11g & 802.11g	1 to 11	1 & 6, 4 & 9, 6 & 11	OFDM & OFDM	BPSK & BPSK	6 & 6	Dual
A	802.11a	1 to 4	4	OFDM	BPSK	6	Single
B	802.11a	1 to 4	4	OFDM	BPSK	6	Single

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, X, Y, Z axis and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIG. MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	TX	AXIS
A	802.11g	1 to 11	11	OFDM	BPSK	6	Single	Z
A	802.11g & 802.11g	1 to 11	6 & 11	OFDM & OFDM	BPSK & BPSK	6 & 6	Dual	Z
B	802.11g	1 to 11	11	OFDM	BPSK	6	Single	Z
B	802.11g & 802.11g	1 to 11	6 & 11	OFDM & OFDM	BPSK & BPSK	6 & 6	Dual	Z
A	802.11a	1 to 4	4	OFDM	BPSK	6	Single	Z
B	802.11a	1 to 4	4	OFDM	BPSK	6	Single	Z

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, X, Y, Z axis and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIG. MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	TX	AXIS
B	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1	Single	Z
B	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	Single	Z
B	802.11b & 802.11b	1 to 11	1 & 6, 4 & 9, 6 & 11	DSSS & DSSS	DBPSK & DBPSK	1 & 1	Dual	Z
B	802.11b & 802.11g	1 to 11	1 & 6, 4 & 9, 6 & 11	DSSS & OFDM	DBPSK & BPSK	1 & 6	Dual	Z
B	802.11g & 802.11b	1 to 11	1 & 6, 4 & 9, 6 & 11	OFDM & DSSS	BPSK & DBPSK	6 & 1	Dual	Z
B	802.11g & 802.11g	1 to 11	1 & 6, 4 & 9, 6 & 11	OFDM & OFDM	BPSK & BPSK	6 & 6	Dual	Z
B	802.11a	1 to 4	1, 3, 4	OFDM	BPSK	6	Single	Z

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.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	TX
B	802.11b	1 to 11	1, 11	DSSS	DBPSK	1	Single
B	802.11g	1 to 11	1, 11	OFDM	BPSK	6	Single
B	802.11b & 802.11b	1 to 11	1 & 6, 6 & 11	DSSS & DSSS	DBPSK & DBPSK	1 & 1	Dual
B	802.11b & 802.11g	1 to 11	1 & 6, 6 & 11	DSSS & OFDM	DBPSK & BPSK	1 & 6	Dual
B	802.11g & 802.11b	1 to 11	1 & 6, 6 & 11	OFDM & DSSS	BPSK & DBPSK	6 & 1	Dual
B	802.11g & 802.11g	1 to 11	1 & 6, 6 & 11	OFDM & OFDM	BPSK & BPSK	6 & 6	Dual
B	802.11a	1 to 4	1, 4	OFDM	BPSK	6	Single

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.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
B	802.11b	1 to 11	1, 4, 6, 9, 11	DSSS	DBPSK	1
B	802.11g	1 to 11	1, 4, 6, 9, 11	OFDM	BPSK	6
B	802.11a	1 to 4	1, 3, 4	OFDM	BPSK	6

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. 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	PP05L	9954115984	E2K24CLNS
2	POE	NA	Power Dsine 3001	NA	NA

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

NOTE 1: All power cords of the above support units are non shielded (1.8m).

2: Item 1 is acted as a communication partner to transfer data.

4. TEST TYPES AND RESULTS (FOR 802.11b & g 2412~2462MHz 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 ROHDE & SCHWARZ	ESCS30	100288	Nov. 02, 2006
RF signal cable Woken	5D-FB	Cable-HYCO3-01	Jan. 06, 2007
LISN ROHDE & SCHWARZ	ESH2-Z5	100100	Jan. 09, 2007
LISN ROHDE & SCHWARZ	ESH3-Z5	100311	Jan. 22, 2007
Software ADT	ADT_Cond_V3	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 HwaYa Shielded Room 2.
 3. The VCCI Site Registration No. is C-2047.

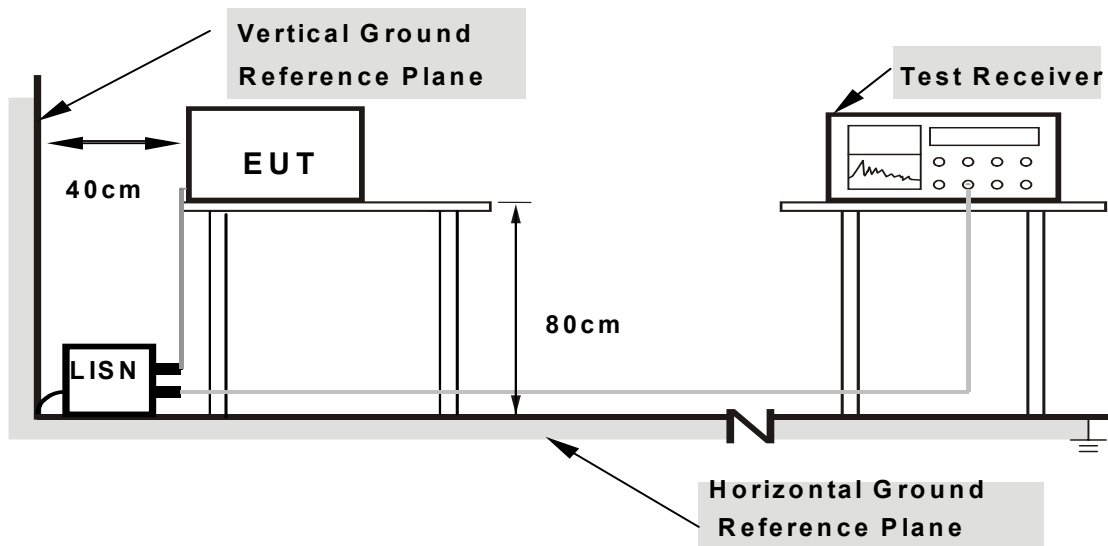
4.1.3 TEST PROCEDURES

- 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) was 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 another notebook system to act as a communication partner and placed it outside of testing area.
- c. The communication partner connected with EUT via a UTP cable and run a test program (provided by manufacturer) to enable EUT under transmission/receiving condition continuously at specific channel frequency.
- d. The communication partner sent data to EUT by command "PING".

4.1.7 TEST RESULTS

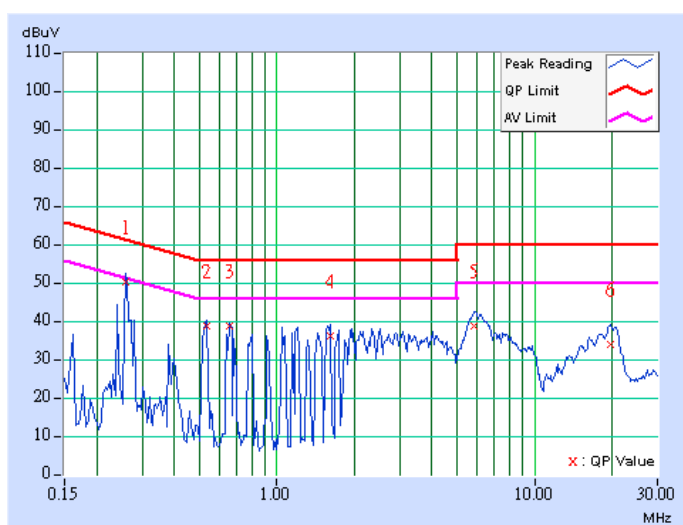
CONDUCTED WORST-CASE DATA

FOR TEST MODE A (ADAPTER MODE): SINGLE TX:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

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	0.259	0.10	49.63	-	49.73	-	61.45	51.45	-11.72	-
2	0.537	0.10	38.15	-	38.25	-	56.00	46.00	-17.75	-
3	0.658	0.10	38.51	-	38.61	-	56.00	46.00	-17.39	-
4	1.617	0.16	35.75	-	35.91	-	56.00	46.00	-20.09	-
5	5.824	0.37	38.16	-	38.53	-	60.00	50.00	-21.47	-
6	19.762	0.56	33.50	-	34.06	-	60.00	50.00	-25.94	-

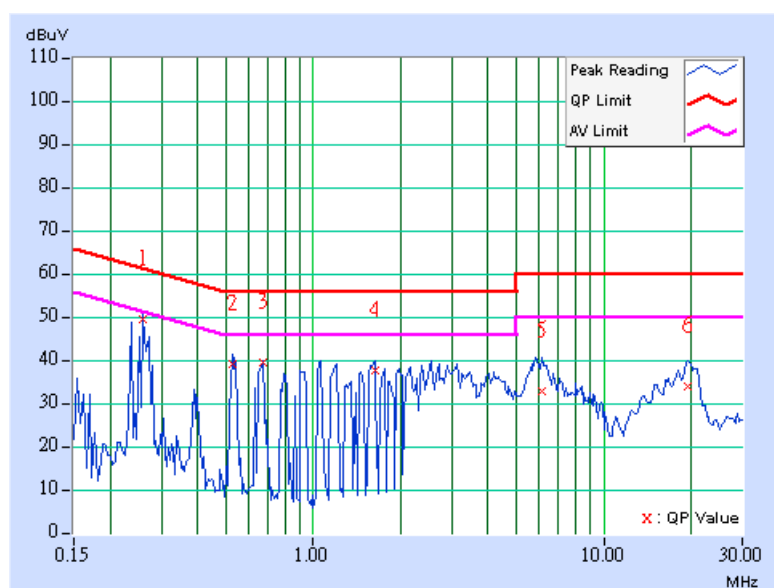
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
NO		FACTOR	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.259	0.10	49.17	-	49.27	-	61.45	51.45	-12.18	-
2	0.525	0.12	38.81	-	38.93	-	56.00	46.00	-17.07	-
3	0.670	0.14	39.06	-	39.20	-	56.00	46.00	-16.80	-
4	1.625	0.20	37.30	-	37.50	-	56.00	46.00	-18.50	-
5	6.121	0.40	32.48	-	32.88	-	60.00	50.00	-27.12	-
6	19.438	0.57	33.48	-	34.05	-	60.00	50.00	-25.95	-

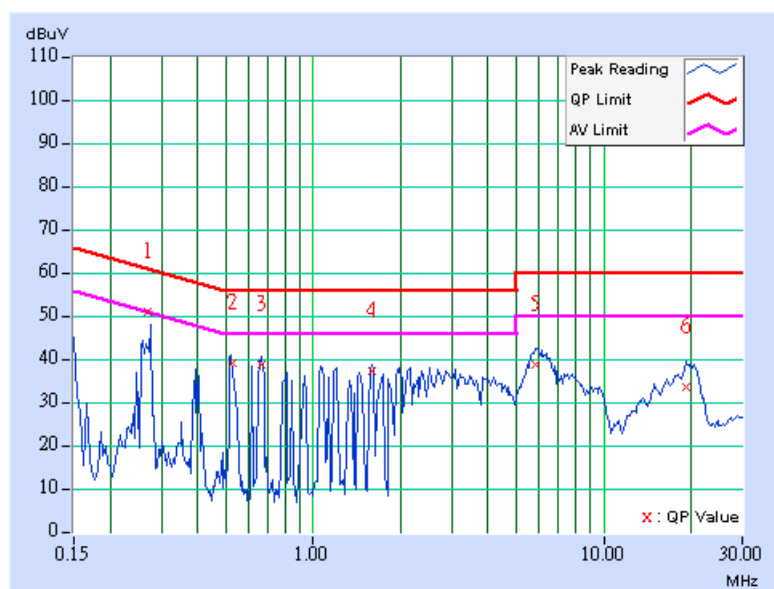
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value =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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

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	0.270	0.10	50.70	-	50.80	-	61.12	51.12	-10.32	-
2	0.529	0.10	38.81	-	38.91	-	56.00	46.00	-17.09	-
3	0.666	0.10	38.49	-	38.59	-	56.00	46.00	-17.41	-
4	1.598	0.16	36.80	-	36.96	-	56.00	46.00	-19.04	-
5	5.809	0.37	38.33	-	38.70	-	60.00	50.00	-21.30	-
6	19.242	0.57	33.12	-	33.69	-	60.00	50.00	-26.31	-

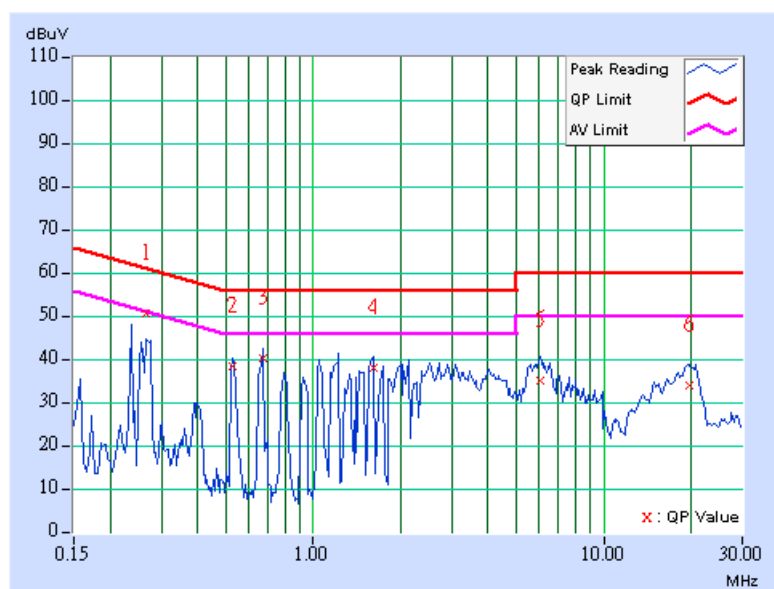
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

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	0.267	0.10	50.30	-	50.40	-	61.20	51.20	-10.80	-
2	0.529	0.12	38.02	-	38.14	-	56.00	46.00	-17.86	-
3	0.673	0.15	39.93	-	40.08	-	56.00	46.00	-15.92	-
4	1.605	0.20	37.48	-	37.68	-	56.00	46.00	-18.32	-
5	6.047	0.40	34.46	-	34.86	-	60.00	50.00	-25.14	-
6	19.637	0.57	33.35	-	33.92	-	60.00	50.00	-26.08	-

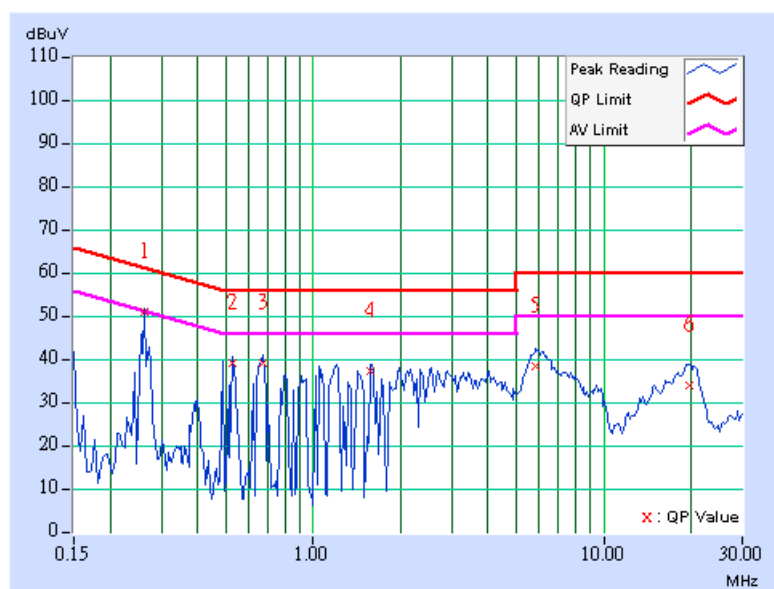
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

NO	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
	[MHz]	FACTOR	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.263	0.10	50.37	-	50.47	-	61.33	51.33	-10.86	-
2	0.525	0.10	38.83	-	38.93	-	56.00	46.00	-17.07	-
3	0.673	0.10	38.56	-	38.66	-	56.00	46.00	-17.34	-
4	1.582	0.16	36.78	-	36.94	-	56.00	46.00	-19.06	-
5	5.832	0.37	37.79	-	38.16	-	60.00	50.00	-21.84	-
6	19.633	0.57	33.57	-	34.14	-	60.00	50.00	-25.86	-

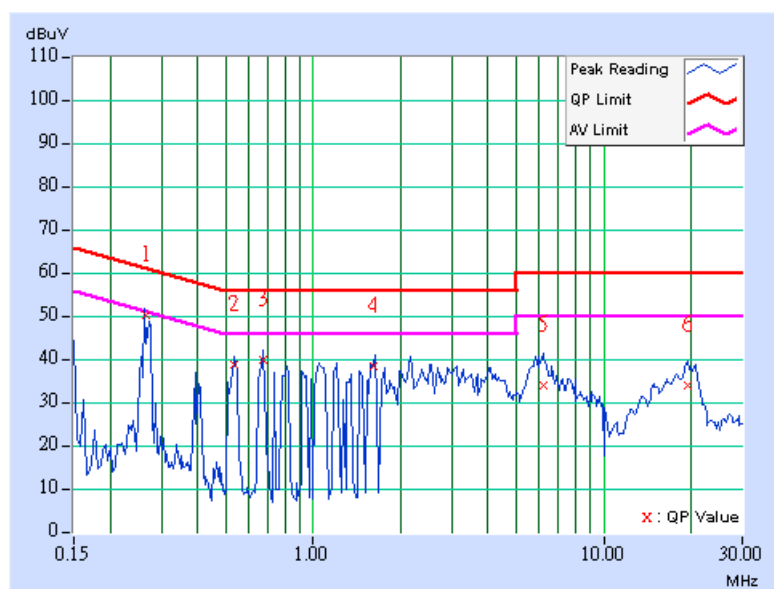
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

NO	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
		FACTOR	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.266	0.10	49.90	-	50.00	-	61.24	51.24	-11.24	-
2	0.537	0.12	38.47	-	38.59	-	56.00	46.00	-17.41	-
3	0.673	0.15	39.49	-	39.64	-	56.00	46.00	-16.36	-
4	1.624	0.20	37.96	-	38.16	-	56.00	46.00	-17.84	-
5	6.184	0.40	33.52	-	33.92	-	60.00	50.00	-26.08	-
6	19.488	0.57	33.41	-	33.98	-	60.00	50.00	-26.02	-

- 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.

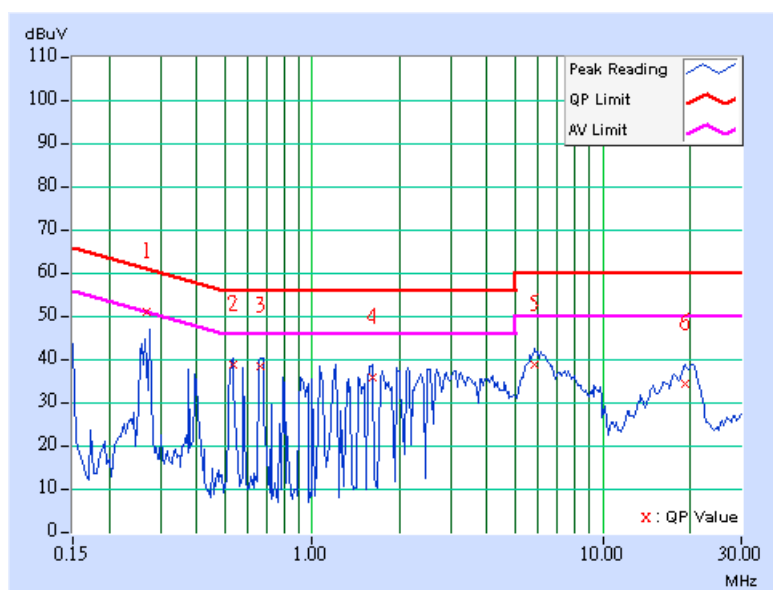


DUAL TX:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1 & Channel 6	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
NO		FACTOR	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.268	0.10	50.57	-	50.67	-	61.18	51.18	-10.51	-
2	0.534	0.10	38.32	-	38.42	-	56.00	46.00	-17.58	-
3	0.662	0.10	38.01	-	38.11	-	56.00	46.00	-17.89	-
4	1.614	0.16	35.38	-	35.54	-	56.00	46.00	-20.46	-
5	5.832	0.37	38.47	-	38.84	-	60.00	50.00	-21.16	-
6	19.231	0.57	33.85	-	34.42	-	60.00	50.00	-25.58	-

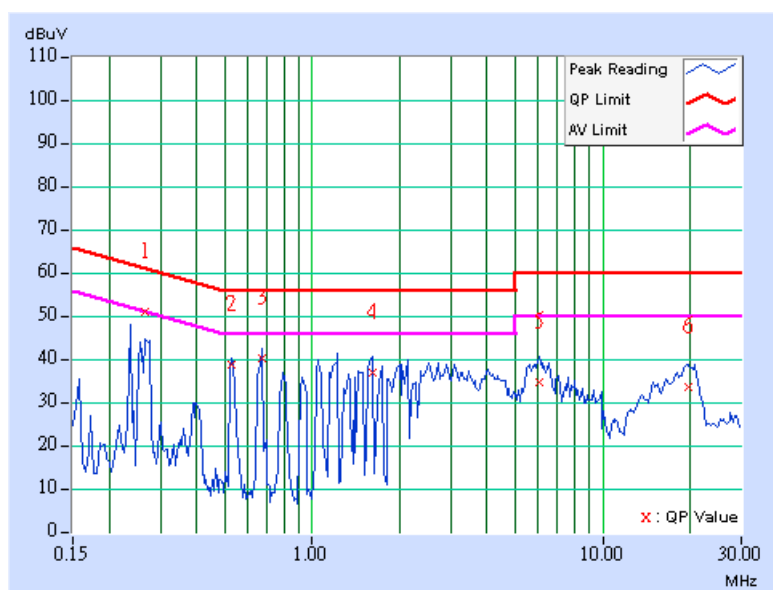
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1 & Channel 6	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

NO	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
	[MHz]	FACTOR	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.267	0.10	50.52	-	50.62	-	61.20	51.20	-10.58	-
2	0.529	0.12	38.20	-	38.32	-	56.00	46.00	-17.68	-
3	0.673	0.15	39.93	-	40.08	-	56.00	46.00	-15.92	-
4	1.605	0.20	36.52	-	36.72	-	56.00	46.00	-19.28	-
5	6.046	0.40	34.27	-	34.67	-	60.00	50.00	-25.33	-
6	19.635	0.57	33.11	-	33.68	-	60.00	50.00	-26.32	-

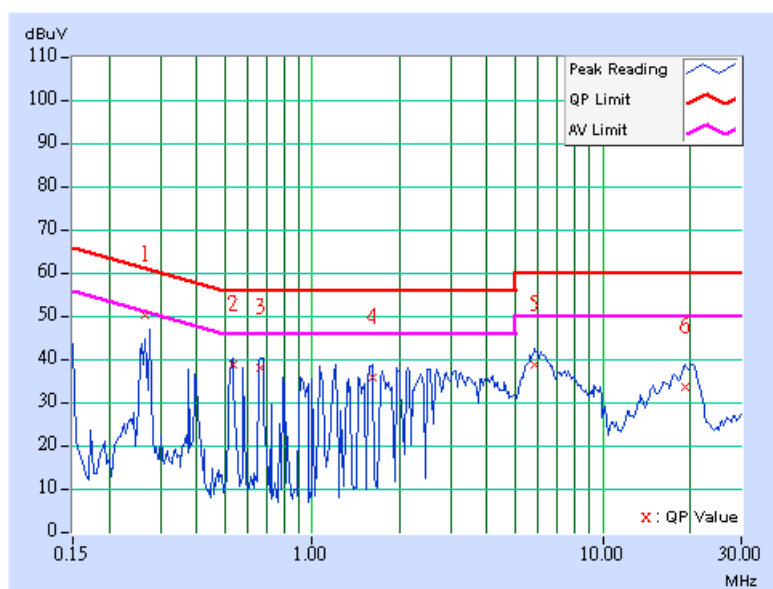
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value =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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4 & Channel 9	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
NO		FACTOR	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.267	0.10	49.85	-	49.95	-	61.23	51.23	-11.28	-
2	0.532	0.10	38.36	-	38.46	-	56.00	46.00	-17.54	-
3	0.663	0.10	37.52	-	37.62	-	56.00	46.00	-18.38	-
4	1.612	0.16	35.38	-	35.54	-	56.00	46.00	-20.46	-
5	5.833	0.37	38.44	-	38.81	-	60.00	50.00	-21.19	-
6	19.231	0.57	33.01	-	33.58	-	60.00	50.00	-26.42	-

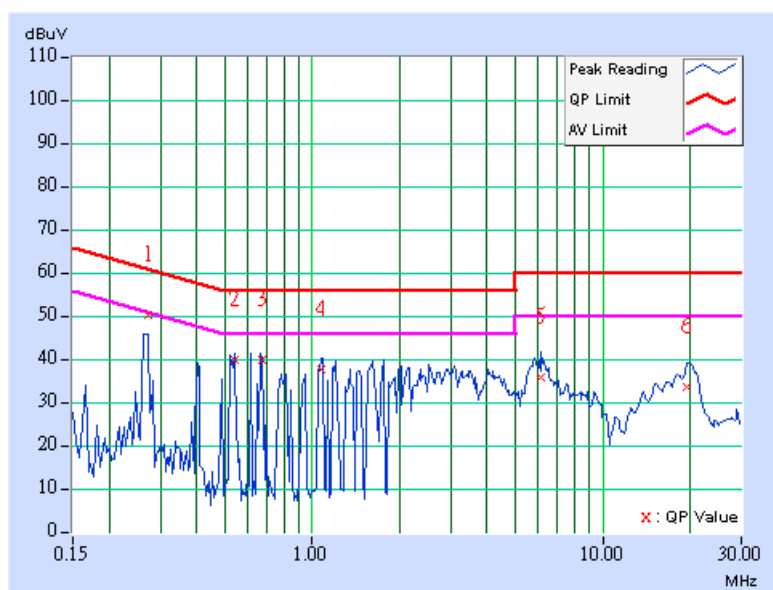
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4 & Channel 9	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

NO	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
	[MHz]	FACTOR	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.271	0.10	49.96	-	50.06	-	61.08	51.08	-11.02	-
2	0.541	0.12	39.40	-	39.52	-	56.00	46.00	-16.48	-
3	0.673	0.15	39.41	-	39.56	-	56.00	46.00	-16.44	-
4	1.079	0.20	37.36	-	37.56	-	56.00	46.00	-18.44	-
5	6.098	0.40	35.47	-	35.87	-	60.00	50.00	-24.13	-
6	19.521	0.57	33.07	-	33.64	-	60.00	50.00	-26.36	-

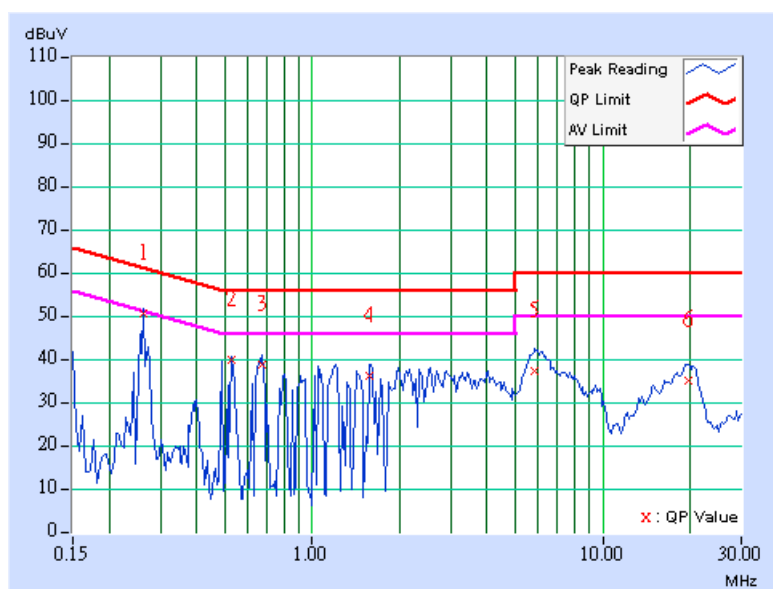
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
NO		FACTOR	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.263	0.10	50.14	-	50.24	-	61.33	51.33	-11.09	-
2	0.525	0.10	39.31	-	39.41	-	56.00	46.00	-16.59	-
3	0.673	0.10	38.24	-	38.34	-	56.00	46.00	-17.66	-
4	1.584	0.16	35.65	-	35.81	-	56.00	46.00	-20.19	-
5	5.832	0.37	36.80	-	37.17	-	60.00	50.00	-22.83	-
6	19.634	0.57	34.55	-	35.12	-	60.00	50.00	-24.88	-

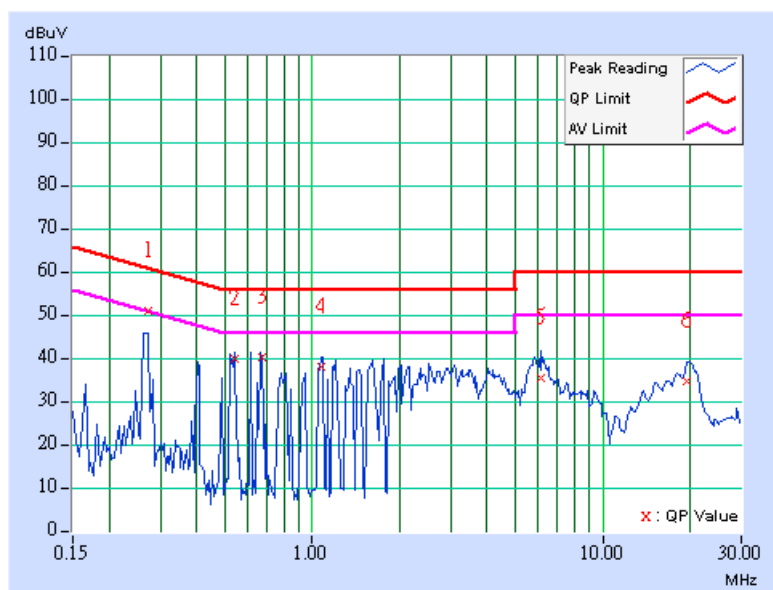
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

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	0.272	0.10	50.41	-	50.51	-	61.05	51.05	-10.54	-
2	0.541	0.12	39.46	-	39.58	-	56.00	46.00	-16.42	-
3	0.674	0.15	39.83	-	39.98	-	56.00	46.00	-16.02	-
4	1.079	0.20	37.74	-	37.94	-	56.00	46.00	-18.06	-
5	6.098	0.40	34.85	-	35.25	-	60.00	50.00	-24.75	-
6	19.520	0.57	34.11	-	34.68	-	60.00	50.00	-25.32	-

- 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.

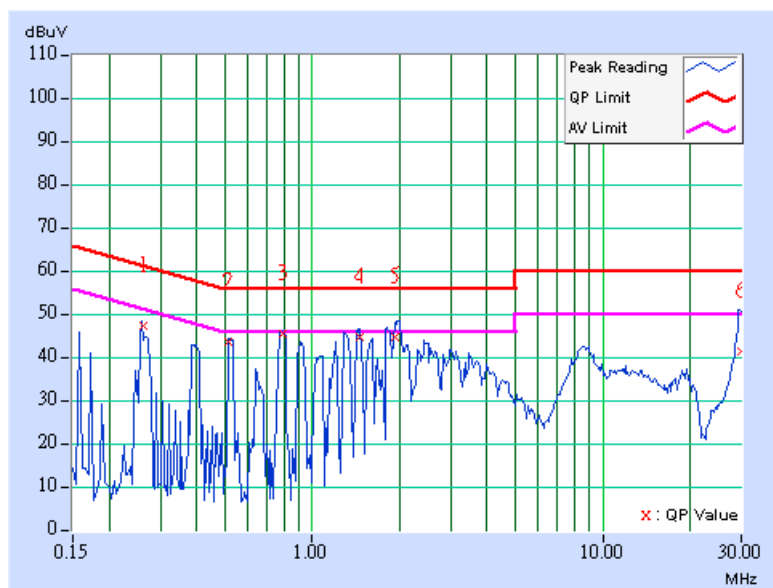


FOR TEST MODE B (POE MODE): SINGLE TX:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
NO		FACTOR	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.262	0.10	46.05	-	46.15	-	61.37	51.37	-15.22	-
2	0.513	0.10	42.51	-	42.61	-	56.00	46.00	-13.39	-
3	0.795	0.10	44.12	-	44.22	-	56.00	46.00	-11.78	-
4	1.452	0.15	43.39	-	43.54	-	56.00	46.00	-12.46	-
5	1.934	0.19	43.50	-	43.69	-	56.00	46.00	-12.31	-
6	29.996	1.33	40.21	-	41.54	-	60.00	50.00	-18.46	-

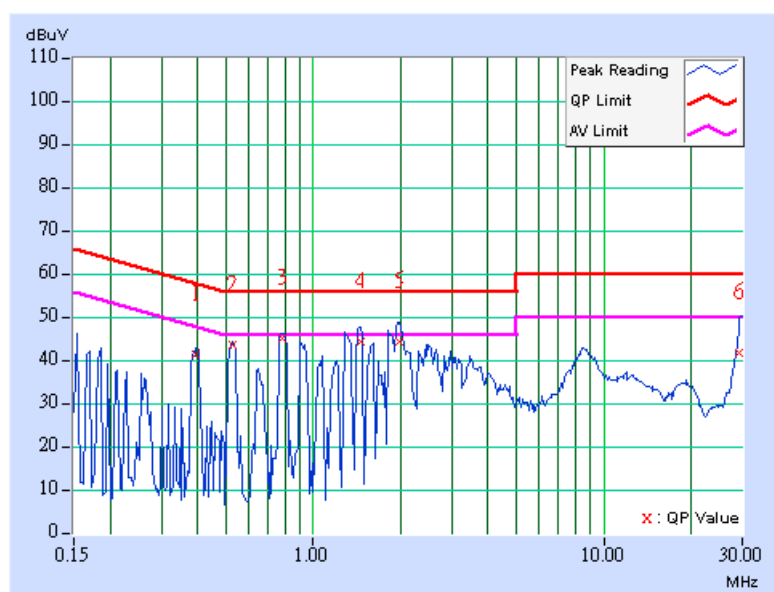
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
NO		FACTOR	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.396	0.10	40.55	-	40.65	-	57.93	47.93	-17.28	-
2	0.529	0.12	42.77	-	42.89	-	56.00	46.00	-13.11	-
3	0.779	0.16	44.22	-	44.38	-	56.00	46.00	-11.62	-
4	1.453	0.20	43.43	-	43.63	-	56.00	46.00	-12.37	-
5	1.969	0.20	43.45	-	43.65	-	56.00	46.00	-12.35	-
6	29.406	1.01	41.01	-	42.02	-	60.00	50.00	-17.98	-

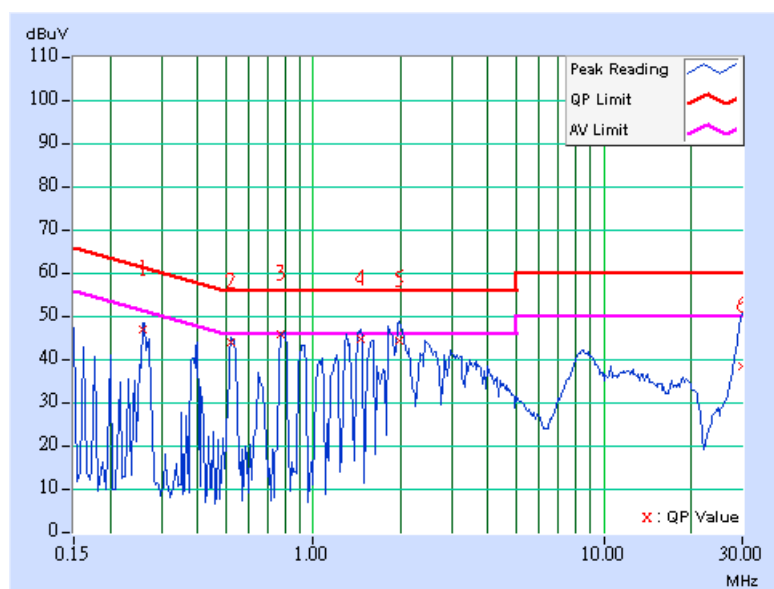
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value =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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

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	0.259	0.10	45.87	-	45.97	-	61.45	51.45	-15.48	-
2	0.521	0.10	42.85	-	42.95	-	56.00	46.00	-13.05	-
3	0.771	0.10	44.42	-	44.52	-	56.00	46.00	-11.48	-
4	1.449	0.14	43.47	-	43.61	-	56.00	46.00	-12.39	-
5	1.969	0.20	43.26	-	43.46	-	56.00	46.00	-12.54	-
6	29.994	1.33	37.32	-	38.65	-	60.00	50.00	-21.35	-

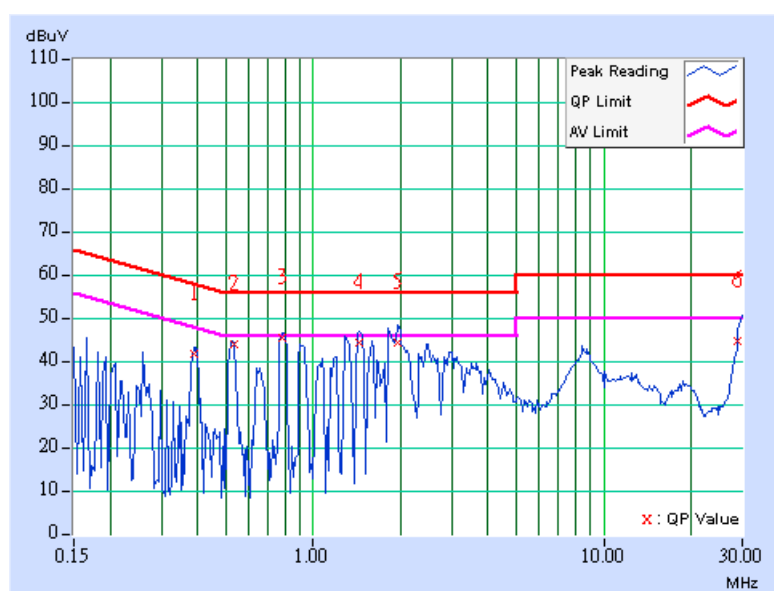
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

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	0.388	0.10	40.71	-	40.81	-	58.10	48.10	-17.29	-
2	0.533	0.12	43.01	-	43.13	-	56.00	46.00	-12.87	-
3	0.787	0.16	44.44	-	44.60	-	56.00	46.00	-11.40	-
4	1.441	0.20	43.53	-	43.73	-	56.00	46.00	-12.27	-
5	1.957	0.20	43.53	-	43.73	-	56.00	46.00	-12.27	-
6	29.050	0.99	43.87	-	44.86	-	60.00	50.00	-15.14	-

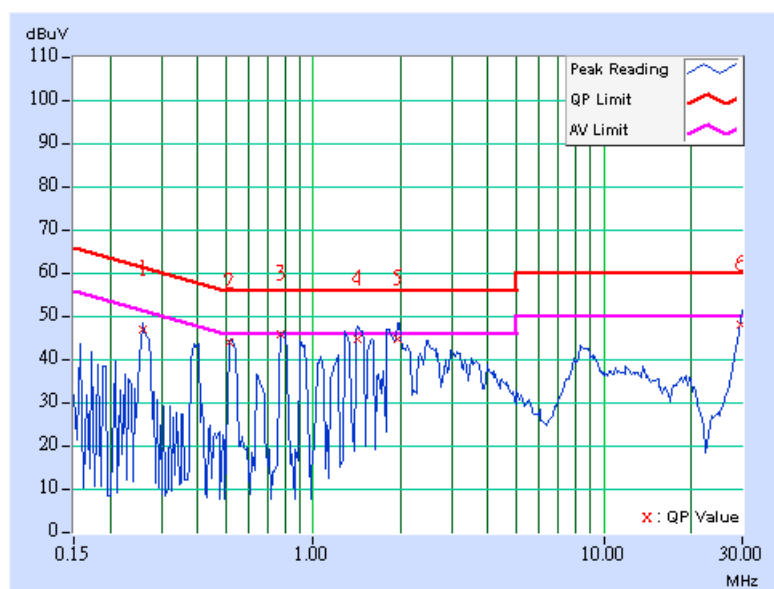
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TESTED BY	Match Tsui

NO	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
	[MHz]	FACTOR	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.259	0.10	45.80	-	45.90	-	61.45	51.45	-15.55	-
2	0.517	0.10	42.87	-	42.97	-	56.00	46.00	-13.03	-
3	0.775	0.10	44.48	-	44.58	-	56.00	46.00	-11.42	-
4	1.430	0.14	43.59	-	43.73	-	56.00	46.00	-12.27	-
5	1.941	0.19	43.55	-	43.74	-	56.00	46.00	-12.26	-
6	29.594	1.30	46.71	-	48.01	-	60.00	50.00	-11.99	-

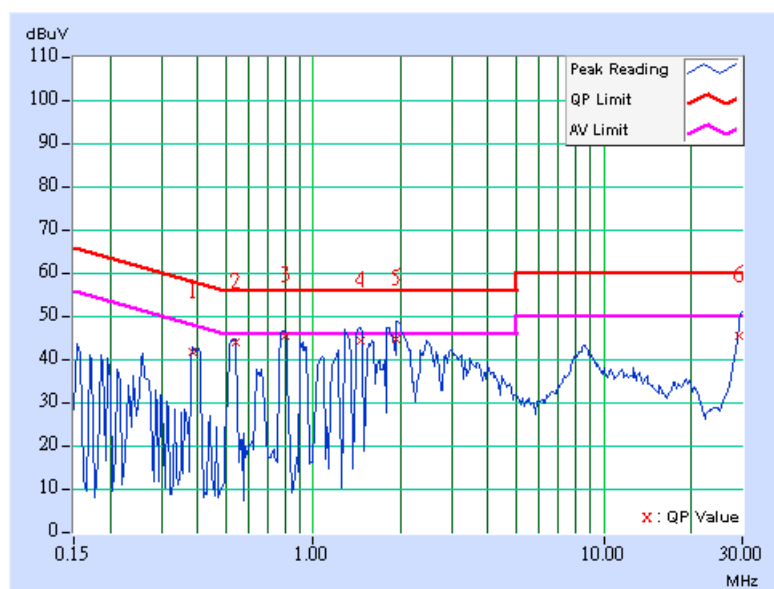
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

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	0.384	0.10	40.77	-	40.87	-	58.18	48.18	-17.31	-
2	0.541	0.12	43.17	-	43.29	-	56.00	46.00	-12.71	-
3	0.802	0.17	44.48	-	44.65	-	56.00	46.00	-11.35	-
4	1.451	0.20	43.59	-	43.79	-	56.00	46.00	-12.21	-
5	1.934	0.20	43.66	-	43.86	-	56.00	46.00	-12.14	-
6	29.149	1.00	44.50	-	45.50	-	60.00	50.00	-14.50	-

- 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.

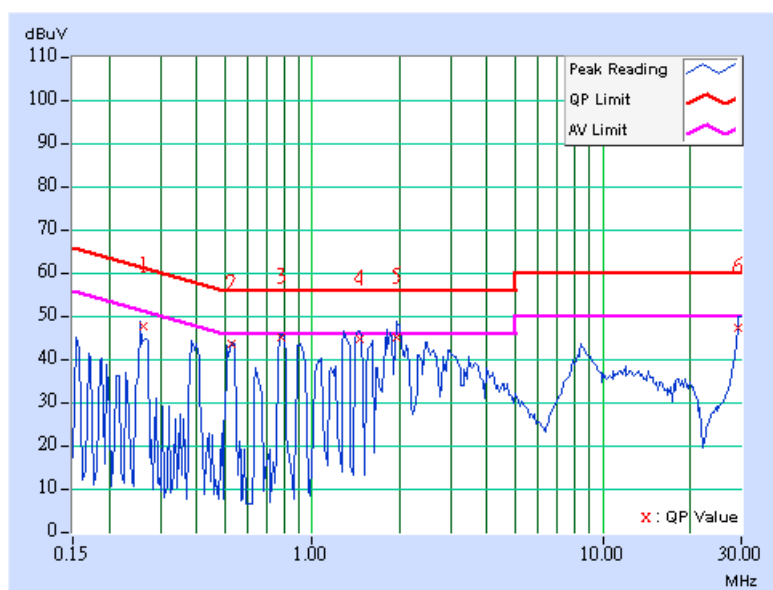


DUAL TX:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1 & Channel 6	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
NO		FACTOR	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.261	0.10	46.47	-	46.57	-	61.38	51.38	-14.81	-
2	0.525	0.10	42.52	-	42.62	-	56.00	46.00	-13.38	-
3	0.787	0.10	43.92	-	44.02	-	56.00	46.00	-11.98	-
4	1.461	0.15	43.54	-	43.69	-	56.00	46.00	-12.31	-
5	1.958	0.20	43.74	-	43.94	-	56.00	46.00	-12.06	-
6	29.412	1.28	46.27	-	47.55	-	60.00	50.00	-12.45	-

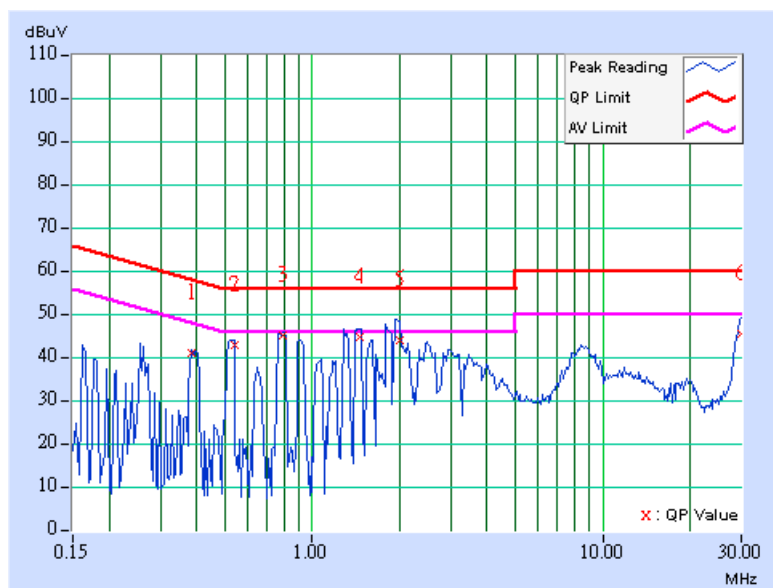
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1 & Channel 6	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

NO	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
	[MHz]	FACTOR	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.386	0.10	40.08	-	40.18	-	58.15	48.15	-17.97	-
2	0.542	0.12	41.96	-	42.08	-	56.00	46.00	-13.92	-
3	0.792	0.17	44.02	-	44.19	-	56.00	46.00	-11.81	-
4	1.453	0.20	43.74	-	43.94	-	56.00	46.00	-12.06	-
5	2.011	0.20	42.86	-	43.06	-	56.00	46.00	-12.94	-
6	29.994	1.03	44.60	-	45.63	-	60.00	50.00	-14.37	-

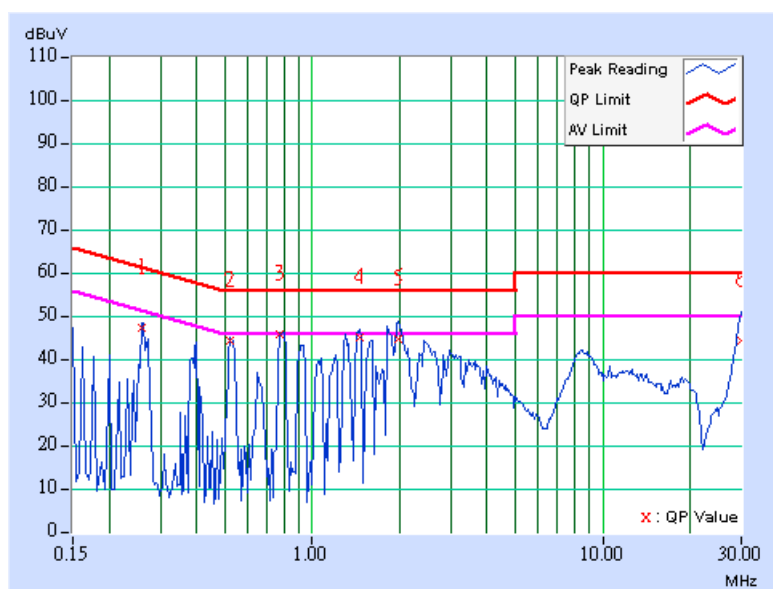
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4 & Channel 9	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
NO		FACTOR	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.260	0.10	46.12	-	46.22	-	61.43	51.43	-15.21	-
2	0.521	0.10	43.05	-	43.15	-	56.00	46.00	-12.85	-
3	0.771	0.10	44.42	-	44.52	-	56.00	46.00	-11.48	-
4	1.450	0.14	43.85	-	43.99	-	56.00	46.00	-12.01	-
5	1.970	0.20	43.51	-	43.71	-	56.00	46.00	-12.29	-
6	29.995	1.33	43.25	-	44.58	-	60.00	50.00	-15.42	-

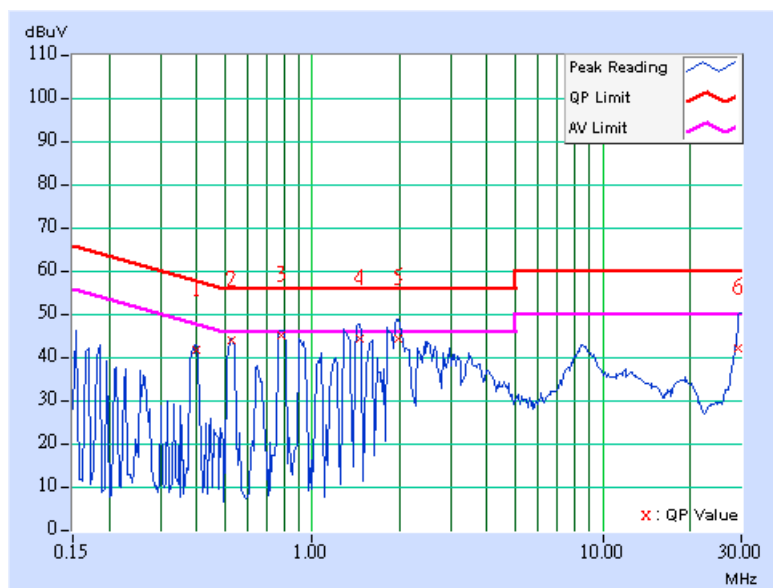
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4 & Channel 9	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

NO	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
	[MHz]	FACTOR	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.397	0.10	41.02	-	41.12	-	57.92	47.92	-16.80	-
2	0.529	0.12	43.01	-	43.13	-	56.00	46.00	-12.87	-
3	0.779	0.16	44.22	-	44.38	-	56.00	46.00	-11.62	-
4	1.454	0.20	43.57	-	43.77	-	56.00	46.00	-12.23	-
5	1.969	0.20	43.44	-	43.64	-	56.00	46.00	-12.36	-
6	29.407	1.01	41.27	-	42.28	-	60.00	50.00	-17.72	-

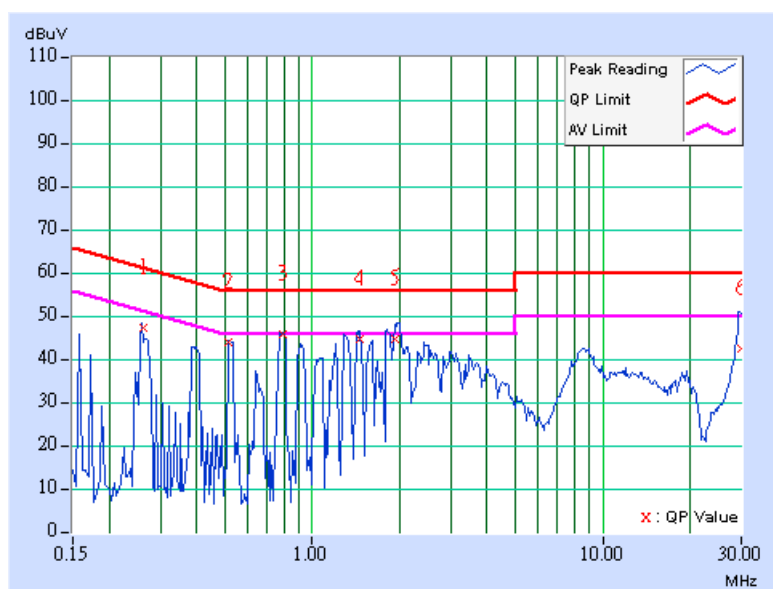
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
NO		FACTOR	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.262	0.10	46.23	-	46.33	-	61.35	51.35	-15.02	-
2	0.515	0.10	42.57	-	42.67	-	56.00	46.00	-13.33	-
3	0.795	0.10	44.47	-	44.57	-	56.00	46.00	-11.43	-
4	1.452	0.15	43.47	-	43.62	-	56.00	46.00	-12.38	-
5	1.937	0.19	43.60	-	43.79	-	56.00	46.00	-12.21	-
6	29.997	1.33	41.11	-	42.44	-	60.00	50.00	-17.56	-

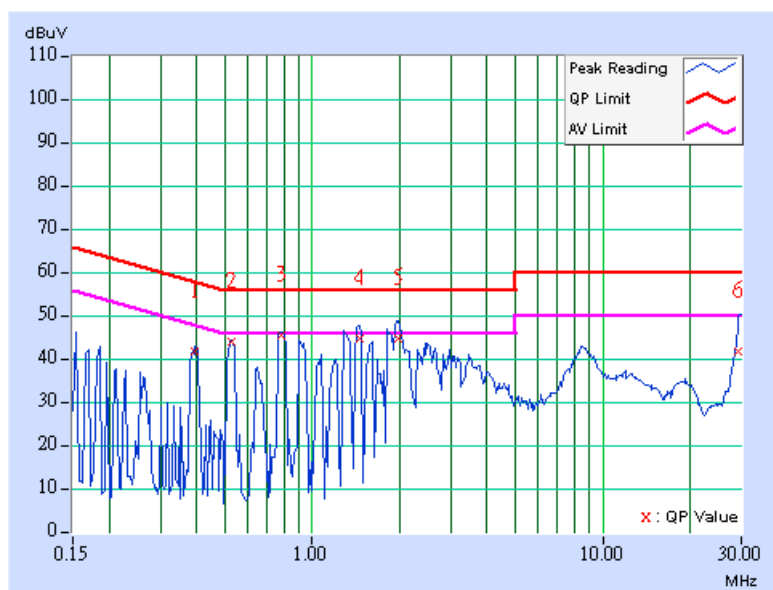
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Match Tsui

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	0.396	0.10	40.87	-	40.97	-	57.93	47.93	-16.96	-
2	0.529	0.12	43.21	-	43.33	-	56.00	46.00	-12.67	-
3	0.779	0.16	44.59	-	44.75	-	56.00	46.00	-11.25	-
4	1.454	0.20	43.90	-	44.10	-	56.00	46.00	-11.90	-
5	1.969	0.20	43.69	-	43.89	-	56.00	46.00	-12.11	-
6	29.407	1.01	41.01	-	42.02	-	60.00	50.00	-17.98	-

- 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
Test Receiver ROHDE & SCHWARZ	ESI7	838496/016	Jan. 01, 2007
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100041	Dec. 04, 2006
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Jan. 15, 2007
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-404	Jan. 01, 2007
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170242	Jan. 19, 2007
Preamplifier Agilent	8449B	3008A01960	Nov. 09, 2006
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	219268/4	Dec. 20, 2006
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	230129/4	Dec. 20, 2006
Software ADT.	ADT_Radiated_V5.14	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA
Antenna Tower Controller inn-co GmbH	CO2000	019303	NA
Turn Table ADT.	TT100.	TT93021704	NA
Turn Table Controller ADT.	SC100.	SC93021704	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 HwaYa Chamber 4.
 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
 4. The IC Site Registration No. is IC4924-4.

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 meters semi-anechoic chamber. 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 lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

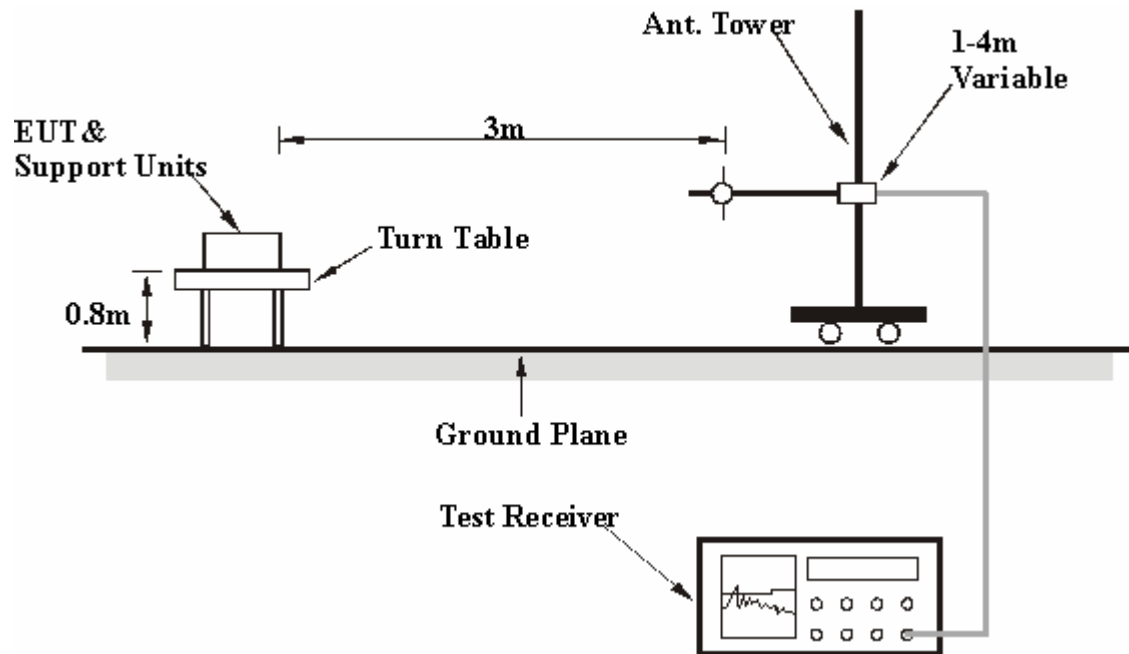
NOTE:

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

FOR TEST MODE A (ADAPTER MODE): SINGLE TX:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	249.66	43.40 QP	46.00	-2.60	1.00 H	91	30.97	12.43
2	366.29	38.06 QP	46.00	-7.94	1.25 H	133	21.40	16.66
3	399.34	38.96 QP	46.00	-7.04	1.00 H	19	21.18	17.78
4	667.60	40.95 QP	46.00	-5.05	1.25 H	106	17.47	23.48
5	799.78	41.64 QP	46.00	-4.36	1.00 H	136	15.54	26.11
6	933.91	40.25 QP	46.00	-5.75	1.00 H	145	11.21	29.04

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	31.94	38.26 QP	40.00	-1.74	1.00 V	223	25.68	12.58
2	76.65	38.31 QP	40.00	-1.69	1.50 V	70	27.44	10.87
3	249.66	40.56 QP	46.00	-5.44	1.00 V	82	28.13	12.43
4	366.29	38.89 QP	46.00	-7.11	1.00 V	238	22.23	16.66
5	667.60	39.30 QP	46.00	-6.70	1.00 V	304	15.82	23.48
6	933.91	42.07 QP	46.00	-3.93	1.25 V	295	13.03	29.04

- 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.

DUAL TX:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	249.71	43.44 QP	46.00	-2.56	1.25 H	87	31.01	12.43
2	267.15	37.96 QP	46.00	-8.04	1.00 H	301	24.33	13.63
3	366.34	38.21 QP	46.00	-7.79	1.25 H	169	21.54	16.67
4	399.38	38.91 QP	46.00	-7.09	1.00 H	24	21.13	17.78
5	667.52	40.85 QP	46.00	-5.15	1.25 H	111	17.37	23.48
6	799.75	41.72 QP	46.00	-4.28	1.00 H	114	15.61	26.11
7	900.86	37.13 QP	46.00	-8.87	1.00 H	316	9.64	27.49
8	933.98	40.36 QP	46.00	-5.64	1.25 H	213	11.32	29.04

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	31.98	38.31 QP	40.00	-1.69	1.00 V	214	25.72	12.59
2	76.75	38.33 QP	40.00	-1.67	1.25 V	84	27.47	10.86
3	249.52	40.74 QP	46.00	-5.26	1.25 V	66	28.32	12.42
4	366.34	38.80 QP	46.00	-7.20	1.00 V	214	22.13	16.67
5	399.34	35.00 QP	46.00	-11.00	1.00 V	250	17.23	17.78
6	667.62	39.24 QP	46.00	-6.76	1.00 V	216	15.76	23.48
7	867.82	37.75 QP	46.00	-8.25	1.00 V	256	10.76	26.99
8	933.94	42.11 QP	46.00	-3.89	1.25 V	286	13.07	29.04

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.

FOR TEST MODE B (POE MODE): SINGLE TX:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	57.21	34.22 QP	40.00	-5.78	1.50 H	226	19.99	14.23
2	249.66	43.92 QP	46.00	-2.08	1.00 H	196	30.45	13.47
3	366.29	40.64 QP	46.00	-5.36	2.00 H	202	23.78	16.85
4	399.34	42.84 QP	46.00	-3.16	2.00 H	202	25.21	17.62
5	667.60	41.19 QP	46.00	-4.81	3.00 H	73	17.56	23.63
6	799.78	41.38 QP	46.00	-4.62	3.00 H	46	15.69	25.70
7	933.91	44.30 QP	46.00	-1.70	1.25 H	217	16.60	27.70

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	57.21	38.85 QP	40.00	-1.15	1.00 V	178	24.62	14.23
2	80.54	38.15 QP	40.00	-1.85	1.00 V	103	27.69	10.46
3	103.87	39.49 QP	43.50	-4.01	1.00 V	172	28.83	10.66
4	138.86	36.70 QP	43.50	-6.80	1.00 V	7	23.02	13.69
5	249.66	38.58 QP	46.00	-7.42	1.50 V	73	25.11	13.47
6	366.29	43.68 QP	46.00	-2.32	1.00 V	46	26.82	16.85
7	399.34	40.82 QP	46.00	-5.18	1.00 V	46	23.19	17.62
8	933.91	42.06 QP	46.00	-3.94	1.00 V	163	14.36	27.70

- 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.

DUAL TX:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	105.81	34.62 QP	43.50	-8.88	1.50 H	79	25.08	9.53
2	315.75	38.54 QP	46.00	-7.46	1.00 H	274	22.89	15.65
3	523.75	38.57 QP	46.00	-7.43	1.50 H	307	18.12	20.45
4	727.86	38.67 QP	46.00	-7.33	1.00 H	64	13.62	25.06
5	875.59	38.39 QP	46.00	-7.61	1.50 H	343	11.29	27.10
6	947.52	40.52 QP	46.00	-5.48	1.50 H	100	10.84	29.67

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	55.29	38.49 QP	40.00	-1.51	1.00 V	9	24.58	13.91
2	94.15	36.09 QP	43.50	-7.41	1.00 V	208	27.07	9.02
3	311.86	34.72 QP	46.00	-11.28	1.50 V	223	19.13	15.59
4	500.42	33.11 QP	46.00	-12.89	1.00 V	166	13.15	19.95
5	729.80	33.04 QP	46.00	-12.96	1.50 V	13	7.92	25.12
6	941.68	38.33 QP	46.00	-7.67	1.50 V	40	8.93	29.40

- 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.

SINGLE TX: 802.11b DSSS MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.27 PK	74.00	-25.73	1.06 H	27	20.33	27.94
2	1066.00	42.88 AV	54.00	-11.12	1.06 H	27	14.94	27.94
3	2390.00	52.76 PK	74.00	-21.24	1.33 H	338	20.66	32.10
4	2390.00	44.39 AV	54.00	-9.61	1.33 H	338	12.29	32.10
5	*2412.00	104.32 PK			1.33 H	338	72.14	32.18
6	*2412.00	99.95 AV			1.33 H	338	67.77	32.18
7	4824.00	50.09 PK	74.00	-23.91	1.00 H	320	11.46	38.63
8	4824.00	39.51 AV	54.00	-14.49	1.00 H	320	0.88	38.63

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	1066.00	49.56 PK	74.00	-24.44	1.08 V	261	21.62	27.94
2	1066.00	46.47 AV	54.00	-7.53	1.08 V	261	18.53	27.94
3	2386.00	61.68 PK	74.00	-12.32	1.16 V	7	29.59	32.09
4	2386.00	52.56 AV	54.00	-1.44	1.16 V	7	20.47	32.09
5	*2412.00	111.97 PK			1.15 V	6	79.79	32.18
6	*2412.00	108.12 AV			1.15 V	6	75.94	32.18
7	4824.00	54.59 PK	74.00	-19.41	1.30 V	8	15.96	38.63
8	4824.00	50.21 AV	54.00	-3.79	1.30 V	8	11.58	38.63

- 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. “* “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.42 PK	74.00	-25.58	1.04 H	34	20.48	27.94
2	1066.00	43.06 AV	54.00	-10.94	1.04 H	34	15.12	27.94
3	*2437.00	106.02 PK			1.34 H	340	73.75	32.27
4	*2437.00	101.83 AV			1.34 H	340	69.56	32.27
5	4874.00	50.25 PK	74.00	-23.75	1.02 H	324	11.48	38.77
6	4874.00	39.70 AV	54.00	-14.30	1.02 H	324	0.93	38.77

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	49.68 PK	74.00	-24.32	1.01 V	217	21.74	27.94
2	1066.00	46.61 AV	54.00	-7.39	1.01 V	217	18.67	27.94
3	*2437.00	113.61 PK			1.14 V	3	81.34	32.27
4	*2437.00	109.91 AV			1.14 V	3	77.64	32.27
5	4874.00	54.23 PK	74.00	-19.77	1.18 V	14	15.46	38.77
6	4874.00	50.06 AV	54.00	-3.94	1.18 V	14	11.29	38.77

- 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. “*”: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.36 PK	74.00	-25.64	1.05 H	34	20.42	27.94
2	1066.00	42.95 AV	54.00	-11.05	1.05 H	34	15.01	27.94
3	*2462.00	105.46 PK			1.34 H	336	73.10	32.36
4	*2462.00	101.05 AV			1.34 H	336	68.69	32.36
5	2488.00	53.87 PK	74.00	-20.13	1.34 H	336	21.41	32.46
6	2488.00	45.52 AV	54.00	-8.48	1.34 H	336	13.06	32.46
7	4924.00	50.21 PK	74.00	-23.79	1.07 H	39	11.31	38.90
8	4924.00	39.64 AV	54.00	-14.36	1.07 H	39	0.74	38.90

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	49.87 PK	74.00	-24.13	1.01 V	26	21.93	27.94
2	1066.00	46.81 AV	54.00	-7.19	1.01 V	26	18.87	27.94
3	*2462.00	113.25 PK			1.11 V	6	80.89	32.36
4	*2462.00	109.39 AV			1.11 V	6	77.03	32.36
5	2488.00	61.64 PK	74.00	-12.36	1.11 V	6	29.18	32.46
6	2488.00	52.78 AV	54.00	-1.22	1.11 V	6	20.32	32.46
7	4924.00	54.12 PK	74.00	-19.88	1.05 V	239	15.22	38.90
8	4924.00	49.85 AV	54.00	-4.15	1.05 V	239	10.95	38.90

- 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. “* “: Fundamental frequency.

SINGLE TX: 802.11g OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.60 PK	74.00	-25.40	1.22 H	167	20.66	27.94
2	1066.00	43.16 AV	54.00	-10.84	1.22 H	167	15.22	27.94
3	2390.00	52.94 PK	74.00	-21.06	1.39 H	353	20.84	32.10
4	2390.00	44.53 AV	54.00	-9.47	1.39 H	353	12.43	32.10
5	*2412.00	101.69 PK			1.39 H	353	69.51	32.18
6	*2412.00	92.88 AV			1.39 H	353	60.70	32.18
7	4824.00	47.97 PK	74.00	-26.03	1.03 H	323	9.34	38.63
8	4824.00	35.65 AV	54.00	-18.35	1.03 H	323	-2.98	38.63

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	49.43 PK	74.00	-24.57	1.03 V	340	21.49	27.94
2	1066.00	46.29 AV	54.00	-7.71	1.03 V	340	18.35	27.94
3	2390.00	68.93 PK	74.00	-5.07	1.15 V	7	36.83	32.10
4	2390.00	52.63 AV	54.00	-1.37	1.15 V	7	20.53	32.10
5	*2412.00	110.41 PK			1.15 V	7	78.23	32.18
6	*2412.00	101.38 AV			1.15 V	7	69.20	32.18
7	4824.00	48.67 PK	74.00	-25.33	1.08 V	236	10.04	38.63
8	4824.00	36.83 AV	54.00	-17.17	1.08 V	236	-1.80	38.63

- 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. “* “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.85 PK	74.00	-25.15	1.24 H	163	20.91	27.94
2	1066.00	43.42 AV	54.00	-10.58	1.24 H	163	15.48	27.94
3	*2437.00	106.95 PK			1.38 H	355	74.68	32.27
4	*2437.00	98.20 AV			1.38 H	355	65.93	32.27
5	4874.00	48.51 PK	74.00	-25.49	1.05 H	317	9.74	38.77
6	4874.00	36.22 AV	54.00	-17.78	1.05 H	317	-2.55	38.77

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	49.65 PK	74.00	-24.35	1.05 V	328	21.71	27.94
2	1066.00	46.51 AV	54.00	-7.49	1.05 V	328	18.57	27.94
3	2390.00	60.92 PK	74.00	-13.08	1.14 V	4	28.82	32.10
4	2390.00	51.60 AV	54.00	-2.40	1.14 V	4	19.50	32.10
5	*2437.00	115.97 PK			1.12 V	6	83.70	32.27
6	*2437.00	106.76 AV			1.12 V	6	74.49	32.27
7	4874.00	50.87 PK	74.00	-23.13	1.04 V	26	12.10	38.77
8	4874.00	39.10 AV	54.00	-14.90	1.04 V	26	0.33	38.77

- 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. “* “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.82 PK	74.00	-25.18	1.03 H	224	20.88	27.94
2	1066.00	43.31 AV	54.00	-10.69	1.03 H	224	15.37	27.94
3	*2462.00	102.17 PK			1.38 H	350	69.81	32.36
4	*2462.00	93.38 AV			1.38 H	350	61.02	32.36
5	2483.50	53.14 PK	74.00	-20.86	1.38 H	350	20.70	32.44
6	2483.50	44.76 AV	54.00	-9.24	1.38 H	350	12.32	32.44
7	4924.00	48.16 PK	74.00	-25.84	1.05 H	311	9.26	38.90
8	4924.00	35.84 AV	54.00	-18.16	1.05 H	311	-3.06	38.90

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	51.53 PK	74.00	-22.47	1.05 V	331	23.59	27.94
2	1066.00	46.35 AV	54.00	-7.65	1.05 V	331	18.41	27.94
3	*2462.00	111.16 PK			1.11 V	7	78.80	32.36
4	*2462.00	102.07 AV			1.11 V	7	69.71	32.36
5	2483.50	69.59 PK	74.00	-4.41	1.10 V	5	37.15	32.44
6	2483.50	52.70 AV	54.00	-1.30	1.10 V	5	20.26	32.44
7	4924.00	48.89 PK	74.00	-25.11	1.05 V	244	9.99	38.90
8	4924.00	37.05 AV	54.00	-16.95	1.05 V	244	-1.85	38.90

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. “* “: Fundamental frequency.

DUAL TX: 802.11b DSSS & 802.11b DSSS MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1 & Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK & DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps & 1Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.12 PK	74.00	-25.88	1.08 H	32	20.18	27.94
1	1066.00	42.75 AV	54.00	-11.25	1.08 H	32	14.81	27.94
2	2390.00	52.68 PK	74.00	-21.32	1.32 H	340	20.58	32.10
2	2390.00	44.29 AV	54.00	-9.71	1.32 H	340	12.19	32.10
3	*2412.00	104.29 PK			1.32 H	340	72.11	32.18
3	*2412.00	99.91 AV			1.32 H	340	67.73	32.18
4	*2437.00	105.89 PK			1.32 H	345	73.62	32.27
4	*2437.00	101.76 AV			1.32 H	345	69.49	32.27
5	4824.00	50.12 PK	74.00	-23.88	1.02 H	318	11.49	38.63
5	4824.00	39.58 AV	54.00	-14.42	1.02 H	318	0.95	38.63
6	4874.00	50.36 PK	74.00	-23.64	1.04 H	329	11.59	38.77
6	4874.00	39.82 AV	54.00	-14.18	1.04 H	329	1.05	38.77

- 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. “* “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1 & Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK & DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps & 1Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	49.63 PK	74.00	-24.37	1.07 V	254	21.69	27.94
1	1066.00	46.52 AV	54.00	-7.48	1.07 V	254	18.58	27.94
2	2386.00	61.57 PK	74.00	-12.43	1.15 V	8	29.48	32.09
2	2386.00	52.43 AV	54.00	-1.57	1.15 V	8	20.34	32.09
3	*2412.00	111.86 PK			1.14 V	9	79.68	32.18
3	*2412.00	108.04 AV			1.14 V	9	75.86	32.18
4	*2437.00	113.58 PK			1.16 V	6	81.31	32.27
4	*2437.00	109.85 AV			1.16 V	6	77.58	32.27
5	4824.00	54.63 PK	74.00	-19.37	1.28 V	10	16.00	38.63
5	4824.00	50.34 AV	54.00	-3.66	1.28 V	10	11.71	38.63
6	4874.00	54.16 PK	74.00	-19.84	1.19 V	22	15.39	38.77
6	4874.00	49.86 AV	54.00	-4.14	1.19 V	22	11.09	38.77

- 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. “* “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4 & Channel 9	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK & DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps & 1Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.53 PK	74.00	-25.47	1.05 H	38	20.59	27.94
1	1066.00	43.18 AV	54.00	-10.82	1.05 H	38	15.24	27.94
2	*2427.00	105.86 PK			1.36 H	339	73.62	32.24
2	*2427.00	101.71 AV			1.36 H	339	69.47	32.24
3	*2452.00	106.10 PK			1.36 H	344	73.77	32.33
3	*2452.00	101.92 AV			1.36 H	344	69.59	32.33
4	4854.00	50.36 PK	74.00	-23.64	1.06 H	329	11.65	38.71
4	4854.00	39.81 AV	54.00	-14.19	1.06 H	329	1.10	38.71
5	4904.00	50.11 PK	74.00	-23.89	1.08 H	326	11.26	38.85
5	4904.00	39.58 AV	54.00	-14.42	1.08 H	326	0.73	38.85

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	49.79 PK	74.00	-24.21	1.06 V	224	21.85	27.94
1	1066.00	46.72 AV	54.00	-7.28	1.06 V	224	18.78	27.94
2	*2427.00	113.21 PK			1.15 V	6	81.32	32.24
2	*2427.00	109.25 AV			1.15 V	6	77.61	32.24
3	*2452.00	112.92 PK			1.15 V	11	81.20	32.33
3	*2452.00	109.21 AV			1.15 V	11	77.51	32.33
4	4854.00	54.38 PK	74.00	-19.62	1.19 V	25	15.67	38.71
4	4854.00	50.23 AV	54.00	-3.77	1.19 V	25	11.52	38.71
5	4904.00	54.18 PK	74.00	-19.82	1.16 V	27	15.33	38.85
5	4904.00	49.86 AV	54.00	-4.14	1.16 V	27	11.01	38.85

- 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. “* “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK & DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps & 1Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.56 PK	74.00	-25.44	1.09 H	45	20.62	27.94
1	1066.00	43.19 AV	54.00	-10.81	1.09 H	45	15.25	27.94
2	*2437.00	105.86 PK			1.36 H	343	73.59	32.27
2	*2437.00	101.74 AV			1.36 H	343	69.47	32.27
3	*2462.00	105.38 PK			1.36 H	340	73.02	32.36
3	*2462.00	100.86 AV			1.36 H	340	68.50	32.36
4	2488.00	53.76 PK	74.00	-20.24	1.36 H	340	21.30	32.46
4	2488.00	45.44 AV	54.00	-8.56	1.36 H	340	12.98	32.46
5	4874.00	50.36 PK	74.00	-23.64	1.04 H	319	11.59	38.77
5	4874.00	39.82 AV	54.00	-14.18	1.04 H	319	1.05	38.77
6	4924.00	50.35 PK	74.00	-23.65	1.09 H	46	11.45	38.90
6	4924.00	39.76 AV	54.00	-14.24	1.09 H	46	0.86	38.90

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. “* “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK & DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps & 1Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	49.54 PK	74.00	-24.46	1.04 V	221	21.60	27.94
1	1066.00	46.47 AV	54.00	-7.53	1.04 V	221	18.53	27.94
2	*2437.00	113.58 PK			1.15 V	6	81.31	32.27
2	*2437.00	109.87 AV			1.15 V	6	77.60	32.27
3	*2462.00	113.16 PK			1.10 V	10	80.80	32.36
3	*2462.00	109.12 AV			1.10 V	10	76.95	32.36
4	2488.00	61.58 PK	74.00	-12.42	1.10 V	10	29.12	32.46
4	2488.00	52.63 AV	54.00	-1.37	1.10 V	10	20.17	32.46
5	4874.00	54.36 PK	74.00	-19.64	1.19 V	18	15.59	38.77
5	4874.00	50.18 AV	54.00	-3.82	1.19 V	18	11.41	38.77
6	4924.00	54.24 PK	74.00	-19.76	1.08 V	246	15.34	38.90
6	4924.00	49.98 AV	54.00	-4.02	1.08 V	246	11.08	38.90

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. “* “: Fundamental frequency.

DUAL TX: 802.11b DSSS & 802.11g OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1 & Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.72 PK	74.00	-25.28	1.21 H	160	20.78	27.94
1	1066.00	43.30 AV	54.00	-10.70	1.21 H	160	15.36	27.94
2	2390.00	52.61 PK	74.00	-21.39	1.34 H	334	20.51	32.10
2	2390.00	44.21 AV	54.00	-9.79	1.34 H	334	12.11	32.10
3	*2412.00	104.06 PK			1.34 H	336	72.03	32.18
3	*2412.00	99.76 AV			1.34 H	336	67.64	32.18
4	*2437.00	106.64 PK			1.36 H	346	74.62	32.27
4	*2437.00	98.05 AV			1.36 H	346	65.84	32.27
5	4824.00	50.16 PK	74.00	-23.84	1.01 H	319	11.53	38.63
5	4824.00	39.62 AV	54.00	-14.38	1.01 H	319	0.99	38.63
6	4874.00	48.65 PK	74.00	-25.35	1.09 H	321	9.88	38.77
6	4874.00	36.34 AV	54.00	-17.66	1.09 H	321	-2.43	38.77

- 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. “* “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1 & Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	49.31 PK	74.00	-24.69	1.10 V	274	21.37	27.94
1	1066.00	46.22 AV	54.00	-7.78	1.10 V	274	18.28	27.94
2	2386.00	61.52 PK	74.00	-12.48	1.15 V	10	29.43	32.09
2	2386.00	52.41 AV	54.00	-1.59	1.15 V	10	20.32	32.09
3	*2412.00	111.74 PK			1.15 V	10	79.66	32.18
3	*2412.00	108.01 AV			1.15 V	10	75.83	32.18
4	*2437.00	115.69 PK			1.13 V	10	83.59	32.27
4	*2437.00	106.41 AV			1.13 V	10	74.35	32.27
5	4824.00	54.61 PK	74.00	-19.39	1.29 V	11	15.98	38.63
5	4824.00	50.34 AV	54.00	-3.66	1.29 V	11	11.71	38.63
6	4874.00	50.96 PK	74.00	-23.04	1.05 V	31	12.19	38.77
6	4874.00	39.21 AV	54.00	-14.79	1.05 V	31	0.44	38.77

- 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. “* “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4 & Channel 9	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.41 PK	74.00	-25.59	1.01 H	42	20.47	27.94
1	1066.00	43.02 AV	54.00	-10.98	1.01 H	42	15.08	27.94
2	*2427.00	105.76 PK			1.35 H	341	73.52	32.24
2	*2427.00	101.60 AV			1.35 H	341	69.36	32.24
3	*2452.00	106.72 PK			1.35 H	351	74.39	32.33
3	*2452.00	98.01 AV			1.35 H	351	65.68	32.33
4	4854.00	50.47 PK	74.00	-23.53	1.08 H	331	11.76	38.71
4	4854.00	39.92 AV	54.00	-14.08	1.08 H	331	1.21	38.71
5	4904.00	51.34 PK	74.00	-22.66	1.04 H	82	12.49	38.85
5	4904.00	39.71 AV	54.00	-14.29	1.04 H	82	0.86	38.85

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. “* “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4 & Channel 9	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	49.63 PK	74.00	-24.37	1.05 V	351	21.69	27.94
1	1066.00	46.44 AV	54.00	-7.56	1.05 V	351	18.50	27.94
2	*2427.00	113.45 PK	74.00	39.45	1.16 V	8	81.21	32.24
2	*2427.00	109.76 AV			1.16 V	8	77.52	32.24
3	*2452.00	115.68 PK			1.13 V	24	83.35	32.33
3	*2452.00	106.46 AV			1.13 V	24	74.13	32.33
4	4854.00	54.26 PK			1.20 V	18	15.55	38.71
4	4854.00	50.11 AV	54.00	-3.89	1.20 V	18	11.40	38.71
5	4904.00	51.24 PK	74.00	-22.76	1.06 V	35	12.39	38.85
5	4904.00	39.58 AV	54.00	-14.42	1.06 V	35	0.73	38.85

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. “* “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.81 PK	74.00	-25.19	1.24 H	163	20.87	27.94
1	1066.00	43.46 AV	54.00	-10.54	1.24 H	163	15.52	27.94
2	*2437.00	105.75 PK			1.35 H	345	73.48	32.27
2	*2437.00	101.62 AV			1.35 H	345	69.35	32.27
3	*2462.00	101.94 PK			1.31 H	349	69.77	32.36
3	*2462.00	93.04 AV			1.31 H	349	60.99	32.36
4	2483.50	52.86 PK	74.00	-21.14	1.31 H	349	20.42	32.44
4	2483.50	44.42 AV	54.00	-9.58	1.31 H	349	11.98	32.44
5	4874.00	50.41 PK	74.00	-23.59	1.09 H	321	11.64	38.77
5	4874.00	39.95 AV	54.00	-14.05	1.09 H	321	1.18	38.77
6	4924.00	48.36 PK	74.00	-25.64	1.09 H	214	9.46	38.90
6	4924.00	36.10 AV	54.00	-17.90	1.09 H	214	-2.80	38.90

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. “* “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	49.68 PK	74.00	-24.32	1.05 V	236	21.74	27.94
1	1066.00	46.53 AV	54.00	-7.47	1.05 V	236	18.59	27.94
2	*2437.00	113.42 PK			1.14 V	9	81.15	32.27
2	*2437.00	109.70 AV			1.14 V	9	77.43	32.27
3	*2462.00	110.95 PK			1.11 V	12	78.59	32.36
3	*2462.00	101.86 AV			1.11 V	12	69.50	32.36
4	2483.50	69.41 PK	74.00	-4.59	1.11 V	12	36.97	32.44
4	2483.50	52.49 AV	54.00	-1.51	1.11 V	12	20.05	32.44
5	4874.00	54.29 PK	74.00	-19.71	1.20 V	21	15.52	38.77
5	4874.00	50.05 AV	54.00	-3.95	1.20 V	21	11.28	38.77
6	4924.00	48.86 PK	74.00	-25.14	1.20 V	54	9.96	38.90
6	4924.00	37.10 AV	54.00	-16.90	1.20 V	54	-1.80	38.90

- 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. “* “: Fundamental frequency.

DUAL TX: 802.11g OFDM & 802.11b DSSS MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1 & Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 1Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.15 PK	74.00	-25.85	1.08 H	25	20.21	27.94
1	1066.00	42.89 AV	54.00	-11.11	1.08 H	25	14.95	27.94
2	2390.00	52.45 PK	74.00	-21.55	1.45 H	348	20.35	32.10
2	2390.00	44.12 AV	54.00	-9.88	1.45 H	348	12.02	32.10
3	*2412.00	101.12 PK			1.45 H	348	68.94	32.18
3	*2412.00	92.34 AV			1.45 H	348	60.16	32.18
4	*2437.00	106.83 PK			1.41 H	338	74.56	32.27
4	*2437.00	102.33 AV			1.41 H	338	70.05	32.27
5	4824.00	48.15 PK	74.00	-25.85	1.05 H	309	9.52	38.63
5	4824.00	35.96 AV	54.00	-18.04	1.05 H	309	-2.67	38.63
6	4874.00	51.08 PK	74.00	-22.92	1.08 H	332	12.31	38.77
6	4874.00	40.32 AV	54.00	-13.68	1.08 H	332	1.55	38.77

- 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. “* “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1 & Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 1Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	49.18 PK	74.00	-24.82	1.08 V	265	21.24	27.94
1	1066.00	46.05 AV	54.00	-7.95	1.08 V	265	18.11	27.94
2	2390.00	68.35 PK	74.00	-5.65	1.18 V	3	36.25	32.10
2	2390.00	52.12 AV	54.00	-1.88	1.18 V	3	20.02	32.10
3	*2412.00	109.82 PK			1.18 V	3	77.64	32.18
3	*2412.00	100.71 AV			1.18 V	3	68.53	32.18
4	*2437.00	112.89 PK			1.15 V	8	80.62	32.27
4	*2437.00	109.12 AV			1.15 V	8	76.85	32.27
5	4824.00	48.96 PK	74.00	-25.04	1.04 V	213	10.33	38.63
5	4824.00	36.91 AV	54.00	-17.09	1.04 V	213	-1.72	38.63
6	4874.00	55.01 PK	74.00	-18.99	1.22 V	23	16.24	38.77
6	4874.00	51.31 AV	54.00	-2.69	1.22 V	23	12.54	38.77

- 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. “* “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4 & Channel 9	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 1Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.89 PK	74.00	-25.11	1.01 H	25	20.95	27.94
1	1066.00	43.35 AV	54.00	-10.65	1.01 H	25	15.41	27.94
2	*2427.00	106.23 PK			1.29 H	345	73.99	32.24
2	*2427.00	97.51 AV			1.29 H	345	65.27	32.24
3	*2452.00	105.75 PK			1.28 H	345	73.42	32.33
3	*2452.00	101.39 AV			1.28 H	345	69.06	32.33
4	4854.00	48.35 PK	74.00	-25.65	1.05 H	235	9.64	38.71
4	4854.00	36.51 AV	54.00	-17.49	1.05 H	235	-2.20	38.71
5	4904.00	49.89 PK	74.00	-24.11	1.05 H	312	11.04	38.85
5	4904.00	39.15 AV	54.00	-14.85	1.05 H	312	0.30	38.85

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. “*”: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4 & Channel 9	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 1Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	48.89 PK	74.00	-25.11	1.08 V	325	20.95	27.94
1	1066.00	45.98 AV	54.00	-8.02	1.08 V	325	18.04	27.94
2	2390.00	68.19 PK	74.00	-5.81	1.15 V	23	36.09	32.10
2	2390.00	52.12 AV	54.00	-1.88	1.15 V	23	20.02	32.10
3	*2427.00	115.01 PK			1.15 V	23	82.77	32.24
3	*2427.00	105.86 AV			1.15 V	23	73.62	32.24
4	*2452.00	112.98 PK			1.18 V	25	80.65	32.33
4	*2452.00	109.11 AV			1.18 V	25	76.78	32.33
5	4854.00	48.18 PK	74.00	-25.82	1.05 V	245	9.47	38.71
5	4854.00	36.71 AV	54.00	-17.29	1.05 V	245	-2.00	38.71
6	4904.00	54.55 PK	74.00	-19.45	1.18 V	13	15.70	38.85
6	4904.00	50.12 AV	54.00	-3.88	1.18 V	13	11.27	38.85

- 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. “* “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 1Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	49.12 PK	74.00	-24.88	1.01 H	250	21.18	27.94
1	1066.00	43.05 AV	54.00	-10.95	1.01 H	250	15.11	27.94
2	*2437.00	105.89 PK			1.45 H	349	73.62	32.27
2	*2437.00	97.16 AV			1.45 H	349	64.89	32.27
3	*2462.00	105.46 PK			1.28 H	345	73.10	32.36
3	*2462.00	100.87 AV			1.28 H	345	68.51	32.36
4	2488.00	52.98 PK	74.00	-21.02	1.28 H	345	20.52	32.46
4	2488.00	44.61 AV	54.00	-9.39	1.28 H	345	12.15	32.46
5	4874.00	48.85 PK	74.00	-25.15	1.08 H	305	10.08	38.77
5	4874.00	36.30 AV	54.00	-17.70	1.08 H	305	-2.47	38.77
6	4924.00	50.11 PK	74.00	-23.89	1.04 H	55	11.21	38.90
6	4924.00	39.47 AV	54.00	-14.53	1.04 H	55	0.57	38.90

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. “* “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 1Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	50.12 PK	74.00	-23.88	1.08 V	305	22.18	27.94
1	1066.00	46.85 AV	54.00	-7.15	1.08 V	305	18.91	27.94
2	2390.00	60.45 PK	74.00	-13.55	1.08 V	5	28.35	32.10
2	2390.00	51.05 AV	54.00	-2.95	1.08 V	5	18.95	32.10
3	*2437.00	115.08 PK			1.18 V	6	82.81	32.27
3	*2437.00	105.91 AV			1.18 V	6	73.64	32.27
4	*2462.00	112.18 PK			1.13 V	4	79.82	32.36
4	*2462.00	108.25 AV			1.13 V	4	75.89	32.36
5	2488.00	60.58 PK	74.00	-13.42	1.05 V	3	28.12	32.46
5	2488.00	51.69 AV	54.00	-2.31	1.05 V	3	19.23	32.46
6	4874.00	50.22 PK	74.00	-23.78	1.08 V	16	11.45	38.77
6	4874.00	38.76 AV	54.00	-15.24	1.08 V	16	-0.01	38.77
7	4924.00	53.89 PK	74.00	-20.11	1.08 V	252	14.99	38.90
7	4924.00	49.48 AV	54.00	-4.52	1.08 V	252	10.58	38.90

- 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. “*”: Fundamental frequency.

DUAL TX: 802.11g OFDM & 802.11g OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1 & Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.76 PK	74.00	-25.24	1.20 H	172	20.82	27.94
1	1066.00	43.27 AV	54.00	-10.73	1.20 H	172	15.33	27.94
2	2390.00	52.76 PK	74.00	-21.24	1.40 H	351	20.66	32.10
2	2390.00	44.31 AV	54.00	-9.69	1.40 H	351	12.21	32.10
3	*2412.00	101.35 PK			1.40 H	351	69.17	32.18
3	*2412.00	92.54 AV			1.40 H	351	60.36	32.18
4	*2437.00	106.71 PK			1.36 H	352	74.61	32.27
4	*2437.00	98.04 AV			1.36 H	352	65.89	32.27
5	4824.00	48.03 PK	74.00	-25.97	1.05 H	346	9.40	38.63
5	4824.00	35.71 AV	54.00	-18.29	1.05 H	346	-2.92	38.63
6	4874.00	48.62 PK	74.00	-25.38	1.08 H	324	9.85	38.77
6	4874.00	36.35 AV	54.00	-17.65	1.08 H	324	-2.42	38.77

- 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. “* “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1 & Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	49.56 PK	74.00	-24.44	1.05 V	336	21.62	27.94
1	1066.00	46.34 AV	54.00	-7.66	1.05 V	336	18.40	27.94
2	2390.00	68.58 PK	74.00	-5.42	1.10 V	12	36.48	32.10
2	2390.00	52.60 AV	54.00	-1.40	1.10 V	12	20.50	32.10
3	*2412.00	110.20 PK			1.10 V	12	78.02	32.18
3	*2412.00	101.16 AV			1.10 V	12	68.98	32.18
4	*2437.00	115.64 PK			1.13 V	16	83.59	32.27
4	*2437.00	106.51 AV			1.13 V	16	74.41	32.27
5	4824.00	48.72 PK	74.00	-25.28	1.10 V	242	10.09	38.63
5	4824.00	36.91 AV	54.00	-17.09	1.10 V	242	-1.72	38.63
6	4874.00	50.92 PK	74.00	-23.08	1.05 V	31	12.15	38.77
6	4874.00	39.26 AV	54.00	-14.74	1.05 V	31	0.49	38.77

- 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. “* “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4 & Channel 9	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.62 PK	74.00	-25.38	1.16 H	158	20.68	27.94
1	1066.00	43.11 AV	54.00	-10.89	1.16 H	158	15.17	27.94
2	*2427.00	106.82 PK			1.36 H	351	74.58	32.24
2	*2427.00	98.05 AV			1.36 H	351	65.81	32.24
3	*2452.00	106.86 PK			1.36 H	348	74.53	32.33
3	*2452.00	98.13 AV			1.36 H	348	65.80	32.33
4	4854.00	48.76 PK	74.00	-25.24	1.09 H	241	10.05	38.71
4	4854.00	36.94 AV	54.00	-17.06	1.09 H	241	-1.77	38.71
5	4904.00	51.22 PK	74.00	-22.78	1.01 H	74	12.37	38.85
5	4904.00	39.58 AV	54.00	-14.42	1.01 H	74	0.73	38.85

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. “* “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4 & Channel 9	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	49.48 PK	74.00	-24.52	1.06 V	342	21.54	27.94
1	1066.00	46.29 AV	54.00	-7.71	1.06 V	342	18.35	27.94
2	2390.00	68.32 PK	74.00	-5.68	1.11 V	14	36.22	32.10
2	2390.00	52.36 AV	54.00	-1.64	1.11 V	14	20.26	32.10
3	*2427.00	115.82 PK			1.11 V	14	83.58	32.24
3	*2427.00	106.62 AV			1.11 V	14	74.38	32.24
4	*2452.00	115.72 PK			1.10 V	17	83.39	32.33
4	*2452.00	106.53 AV			1.10 V	17	74.20	32.33
5	4854.00	48.86 PK	74.00	-25.14	1.08 V	224	10.15	38.71
5	4854.00	37.05 AV	54.00	-16.95	1.08 V	224	-1.66	38.71
6	4904.00	51.11 PK	74.00	-22.89	1.03 V	28	12.26	38.85
6	4904.00	39.45 AV	54.00	-14.55	1.03 V	28	0.60	38.85

- 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. “* “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m								
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	1066.00	48.72 PK	74.00	-25.28	1.20 H	154	20.78	27.94
1	1066.00	43.35 AV	54.00	-10.65	1.20 H	154	15.41	27.94
2	*2437.00	106.47 PK			1.36 H	352	74.65	32.27
2	*2437.00	97.15 AV			1.36 H	352	64.88	32.27
3	*2462.00	102.09 PK			1.36 H	351	69.73	32.36
3	*2462.00	92.98 AV			1.36 H	351	60.94	32.36
4	2483.50	53.01 PK	74.00	-20.99	1.36 H	351	20.57	32.44
4	2483.50	44.62 AV	54.00	-9.38	1.36 H	351	12.18	32.44
5	4874.00	48.62 PK	74.00	-25.38	1.06 H	321	9.85	38.77
5	4874.00	36.34 AV	54.00	-17.66	1.06 H	321	-2.43	38.77
6	4924.00	48.29 PK	74.00	-25.71	1.06 H	308	9.39	38.90
6	4924.00	35.98 AV	54.00	-18.02	1.06 H	308	-2.92	38.90

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. “* “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6 & Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK & BPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps & 6Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa
INPUT POWER (SYSTEM)	120Vac, 60Hz	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m								
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	1066.00	49.72 PK	74.00	-24.28	1.03 V	321	21.78	27.94
1	1066.00	46.63 AV	54.00	-7.37	1.03 V	321	18.69	27.94
2	*2437.00	115.82 PK			1.11 V	9	83.55	32.27
2	*2437.00	106.63 AV			1.11 V	9	74.36	32.27
3	*2462.00	111.08 PK			1.10 V	8	78.72	32.36
3	*2462.00	101.95 AV			1.10 V	8	69.59	32.36
4	2483.50	69.52 PK	74.00	-4.48	1.10 V	8	37.08	32.44
4	2483.50	52.61 AV	54.00	-1.39	1.10 V	8	20.17	32.44
5	4874.00	50.84 PK	74.00	-23.16	1.05 V	31	12.07	38.77
5	4874.00	39.08 AV	54.00	-14.92	1.05 V	31	0.31	38.77
6	4924.00	48.75 PK	74.00	-25.25	1.21 V	42	9.85	38.90
6	4924.00	36.98 AV	54.00	-17.02	1.21 V	42	-1.92	38.90

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. “* “: Fundamental frequency.

4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSP 40	100040	Jun. 07, 2007

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

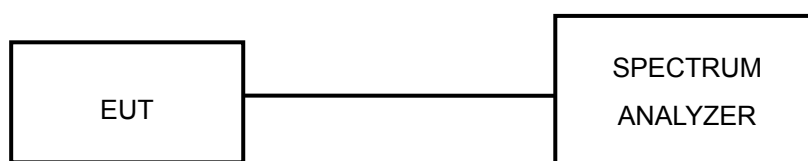
4.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 100kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

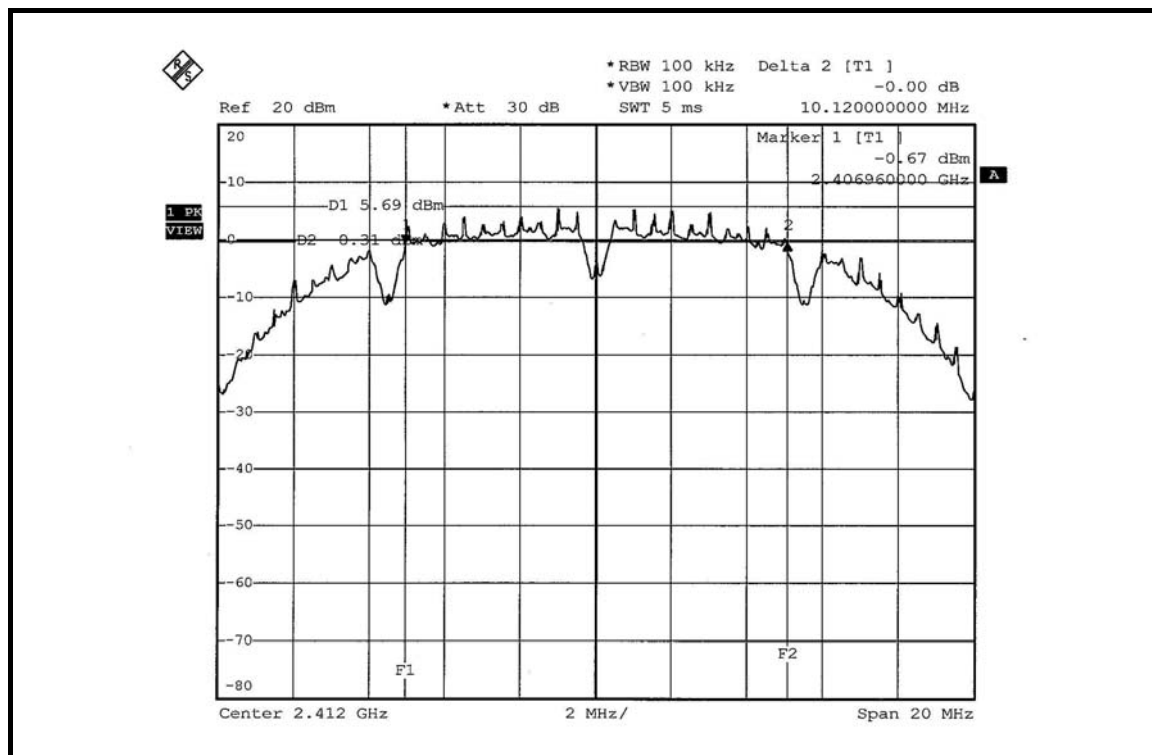
4.3.7 TEST RESULTS

802.11b DSSS MODULATION

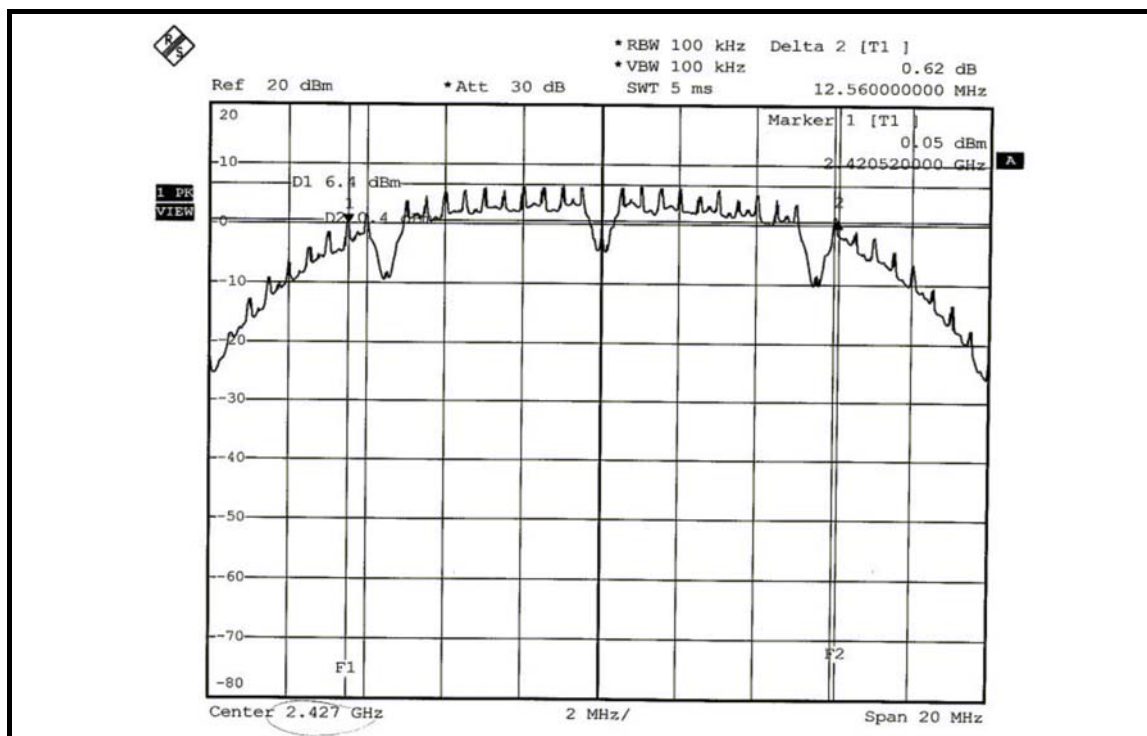
MODULATION TYPE	DBPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 65%RH, 991hPa
TESTED BY	Long Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	10.12	0.5	PASS
4	2427	12.56	0.5	PASS
6	2437	12.04	0.5	PASS
9	2452	11.00	0.5	PASS
11	2462	12.08	0.5	PASS

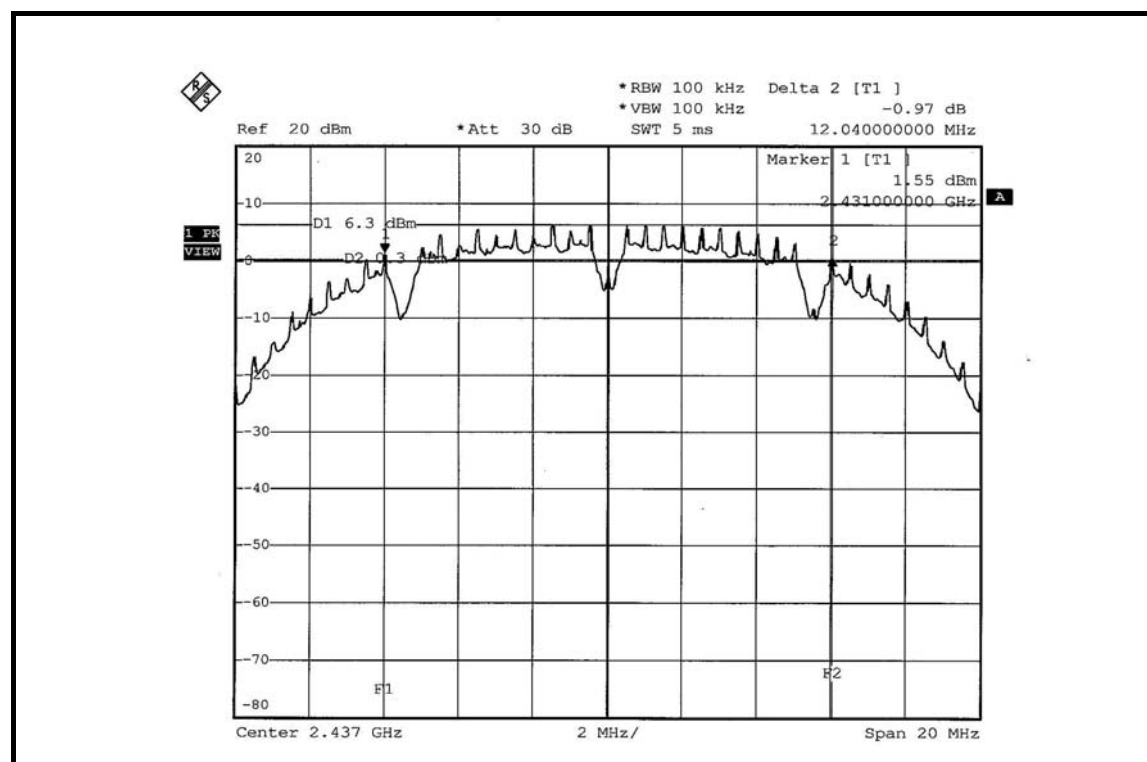
CH 1



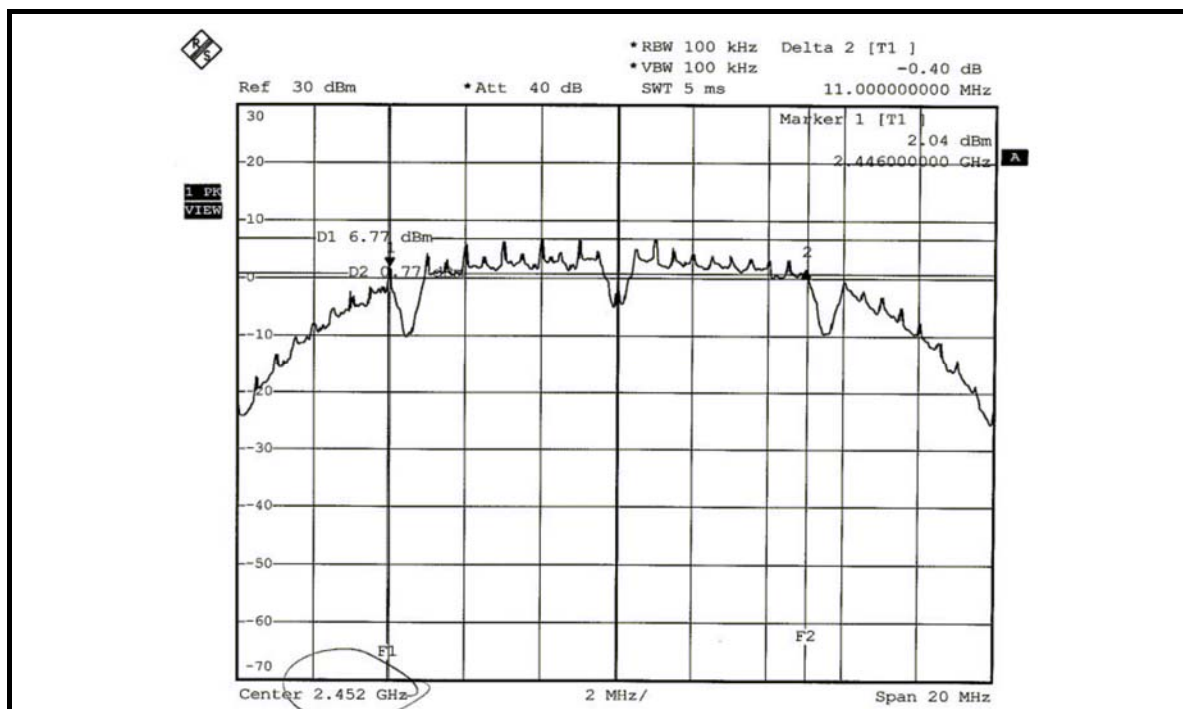
CH 4



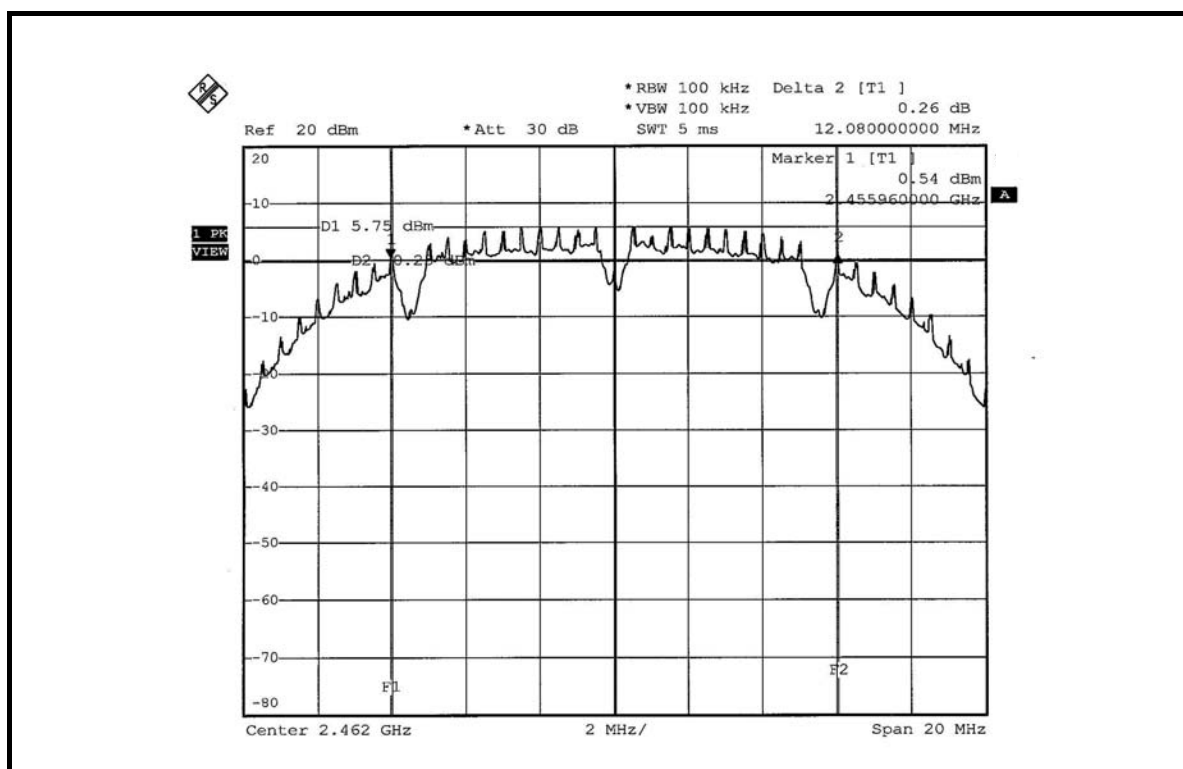
CH 6



CH 9



CH 11

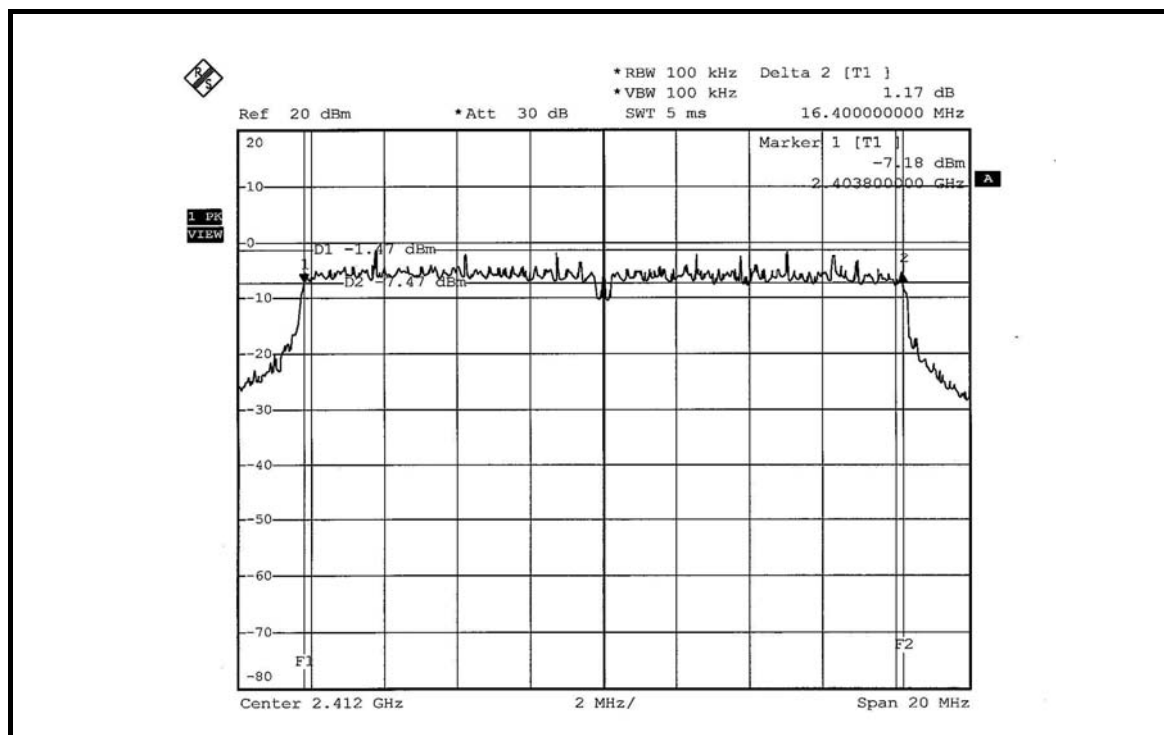


802.11g OFDM Modulation

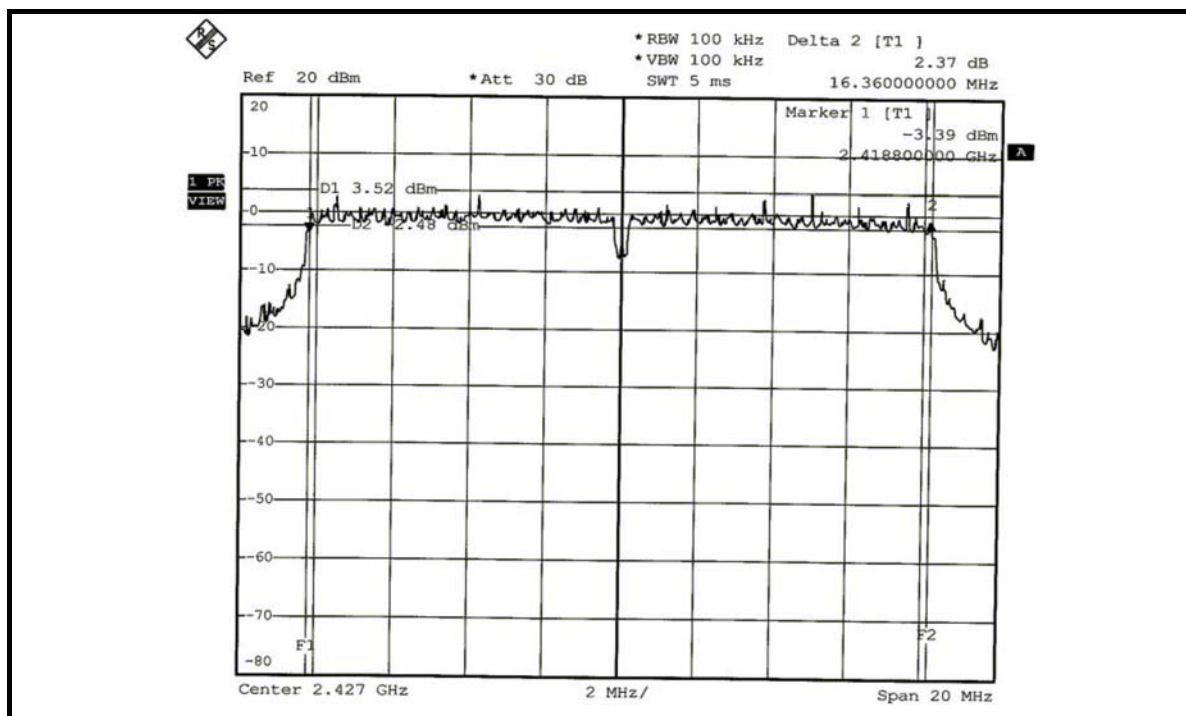
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 65%RH, 991hPa
TESTED BY	Long Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.40	0.5	PASS
4	2427	16.36	0.5	PASS
6	2437	16.44	0.5	PASS
9	2452	16.44	0.5	PASS
11	2462	16.40	0.5	PASS

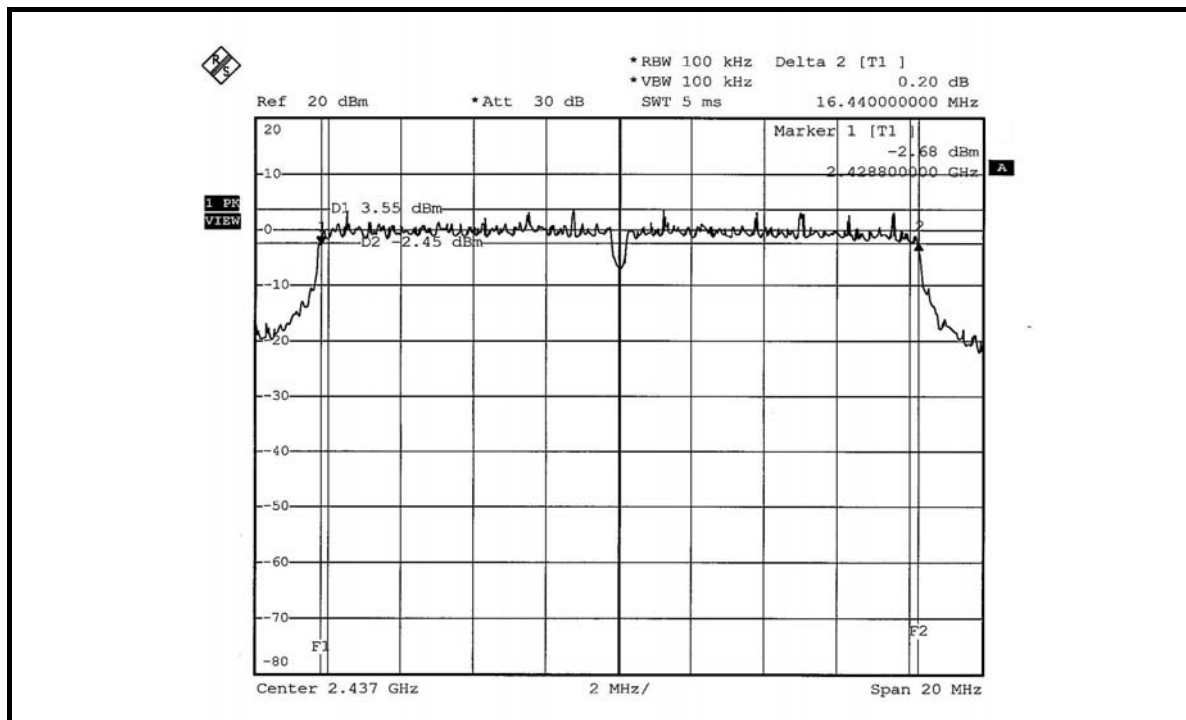
CH 1



CH 4



CH 6



4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP 40	100040	Jun. 07, 2007
AGILENT SIGNAL GENERATOR	E8257C	MY43320668	Dec. 30, 2006
TEKTRONIX OSCILLOSCOPE	TDS 1012	C019167	Jan. 16, 2007
NARDA DETECTOR	4503A	FSCM99899	NA

NOTE:

The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.4.1 TEST PROCEDURES

1. A detector was used on the output port of the EUT. An oscilloscope was used to read the response of the detector.
2. Replaced the EUT by the signal generator. The center frequency of the S.G was adjusted to the center frequency of the measured channel.
3. Adjusted the power to have the same reading on oscilloscope. Record the power level.

4.4.2 DEVIATION FROM TEST STANDARD

No deviation

4.4.3 TEST SETUP



4.4.4 EUT OPERATING CONDITIONS

Same as Item 4.3.6

4.4.3 TEST RESULTS

802.11b DSSS MODULATION

MODULATION TYPE	DBPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 65%RH, 991hPa
TESTED BY	Long Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	44.668	16.5	30	PASS
4	2427	56.624	17.53	30	PASS
6	2437	57.280	17.58	30	PASS
9	2452	58.210	17.65	30	PASS
11	2462	56.364	17.51	30	PASS

802.11g OFDM MODULATION

MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 65%RH, 991hPa
TESTED BY	Long Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	35.892	15.55	30	PASS
4	2427	113.763	20.56	30	PASS
6	2437	112.460	20.51	30	PASS
9	2452	111.686	20.48	30	PASS
11	2462	36.058	15.57	30	PASS

4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP 40	100040	Jun. 07, 2007

NOTE:

The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

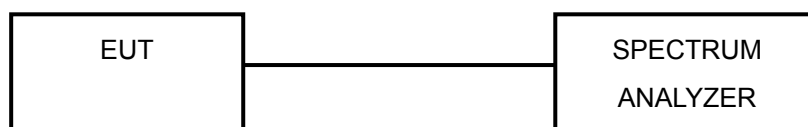
4.5.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time = span/3kHz. The power spectral density was measured and recorded. The sweep time is allowed to be longer than span/3kHz for a full response of the mixer in the spectrum analyzer.

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITION

Same as Item 4.3.6

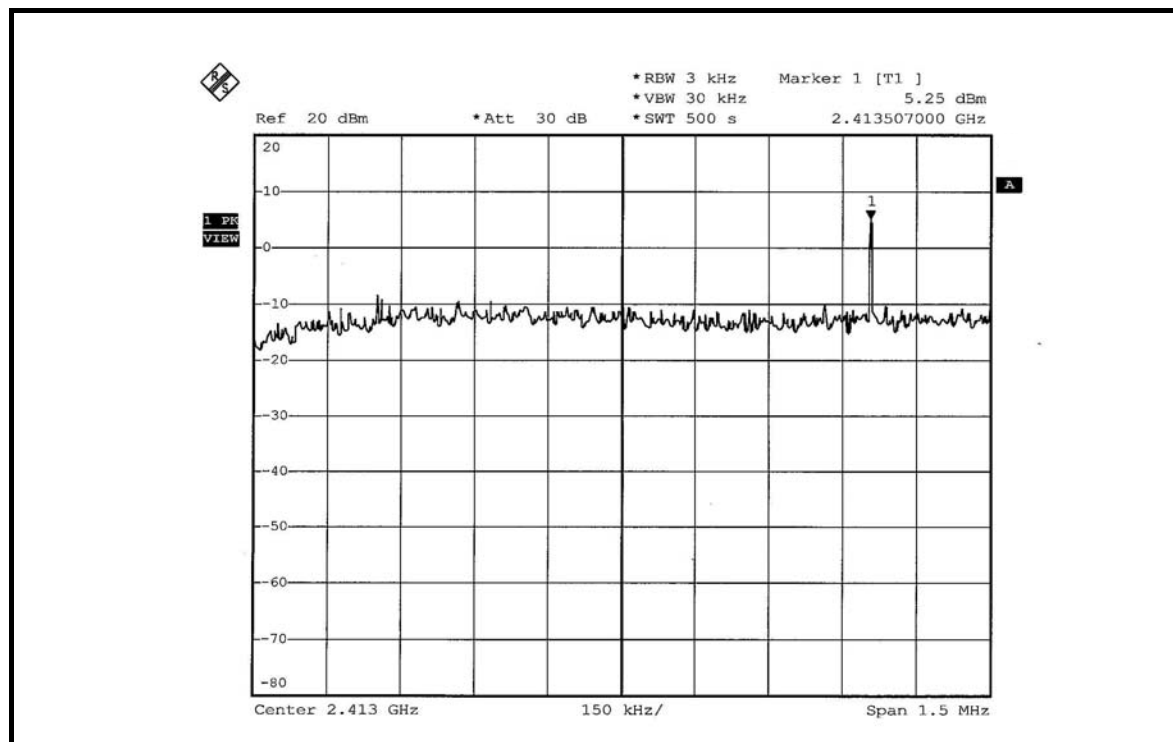
4.5.7 TEST RESULTS

802.11b DSSS MODULATION

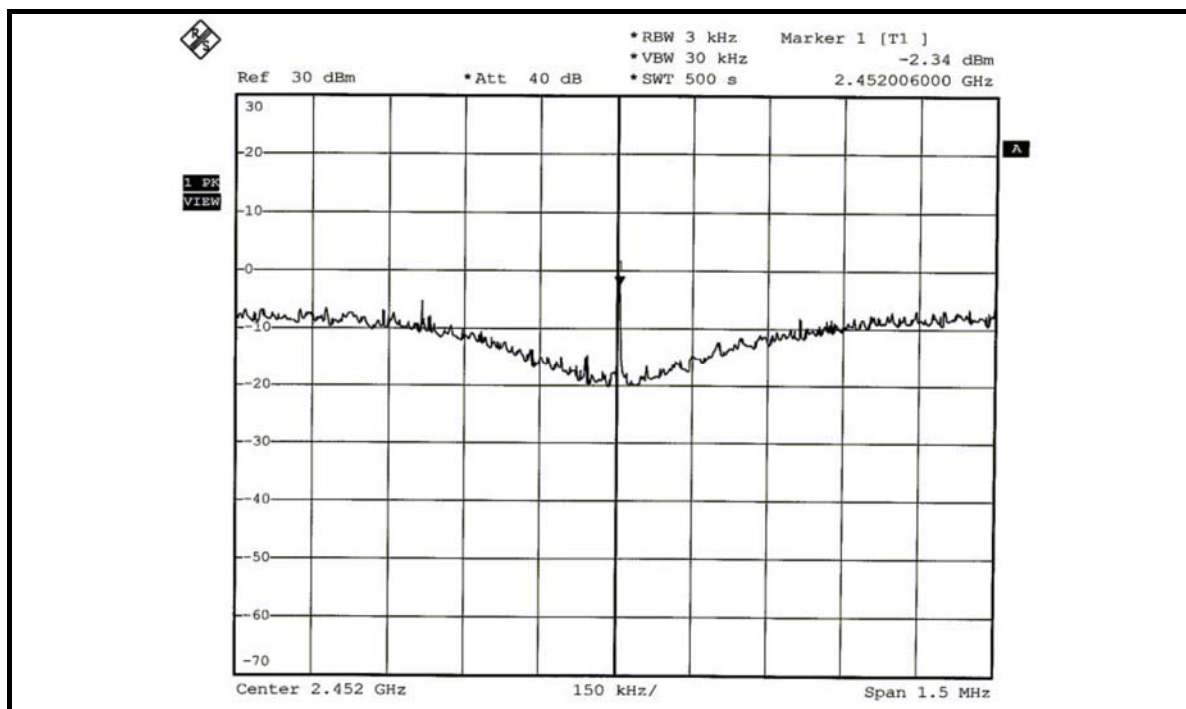
MODULATION TYPE	DBPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 65%RH, 991hPa
TESTED BY	Long Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	5.25	8	PASS
4	2427	-2.11	8	PASS
6	2437	5.75	8	PASS
9	2452	-2.34	8	PASS
11	2462	6.07	8	PASS

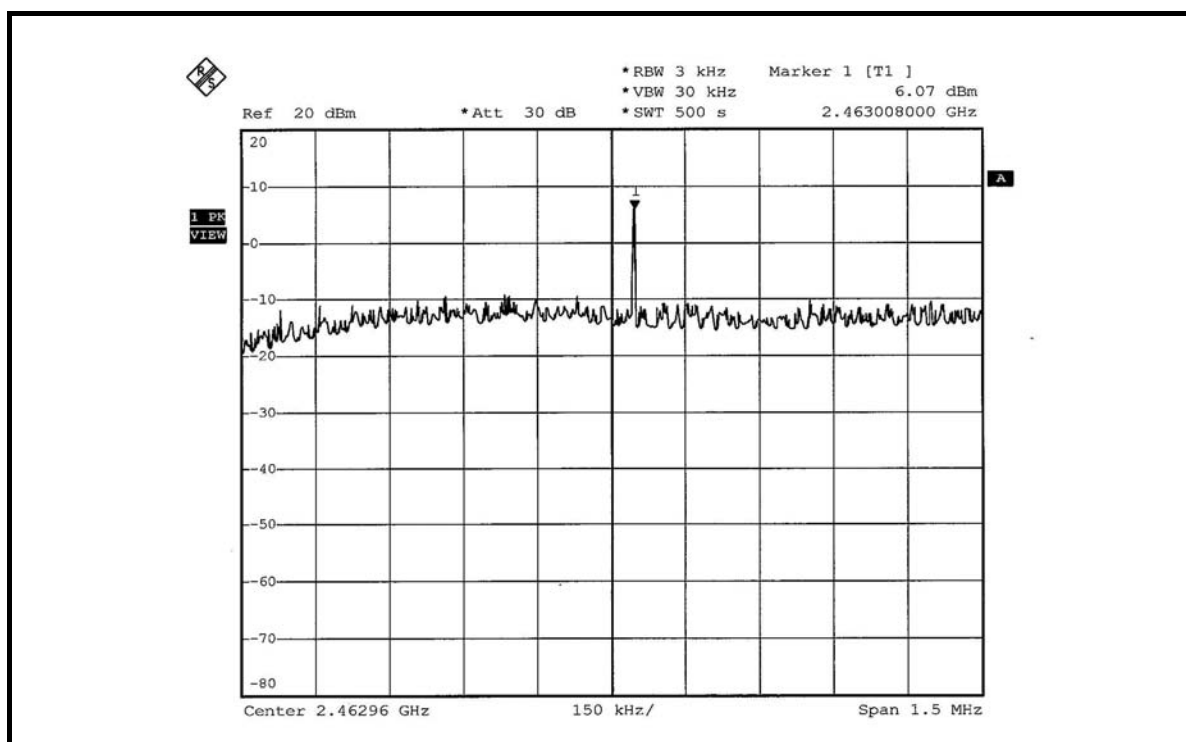
CH 1



CH 9



CH 11

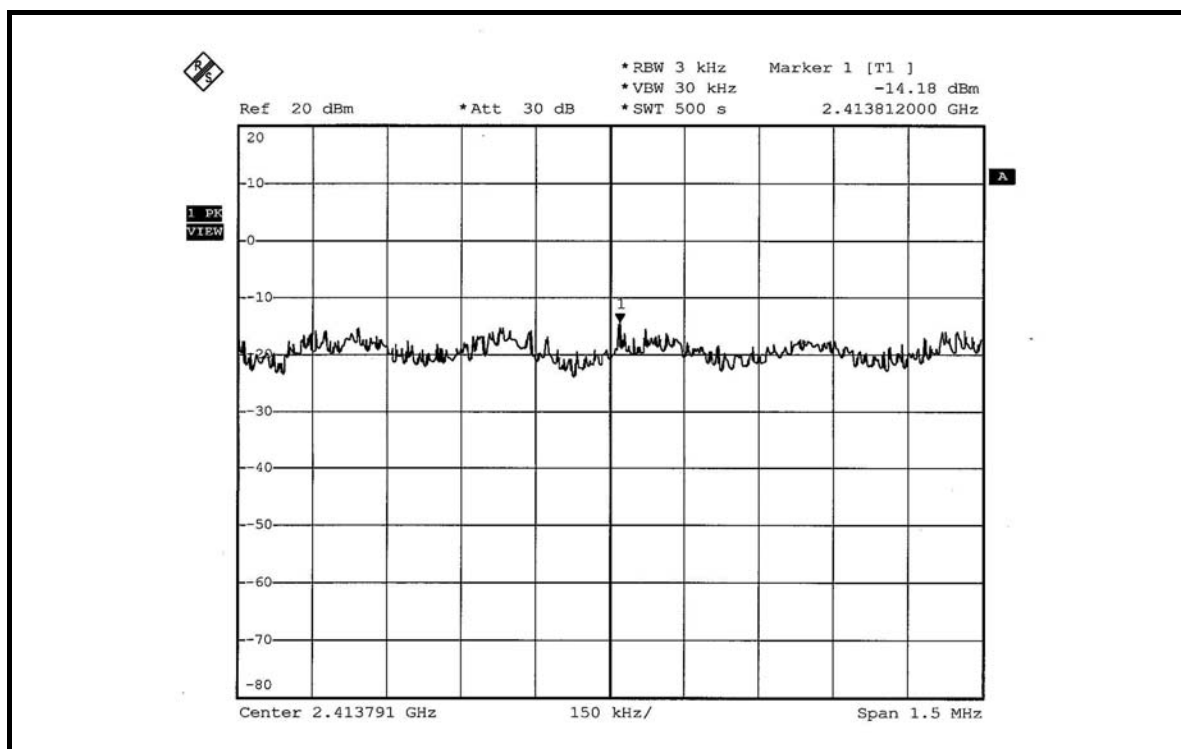


802.11g OFDM MODULATION

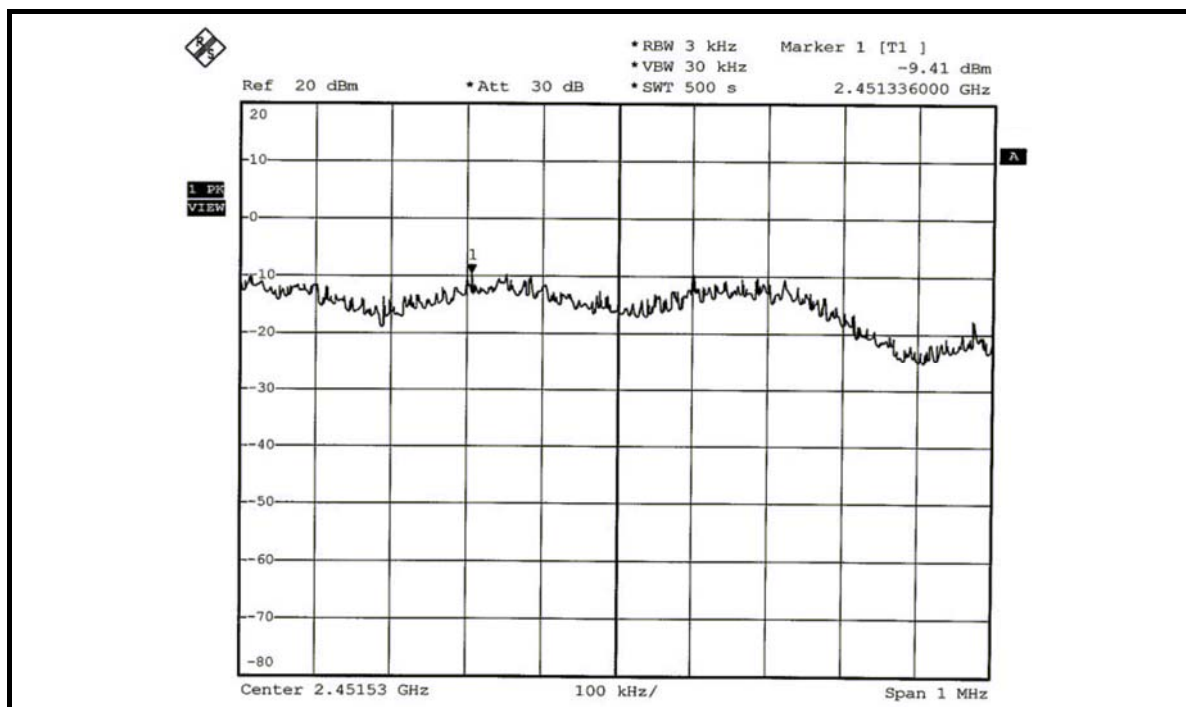
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 65%RH, 991hPa
TESTED BY	Long Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-14.18	8	PASS
4	2427	-5.36	8	PASS
6	2437	-8.95	8	PASS
9	2454	-9.41	8	PASS
11	2462	-14.00	8	PASS

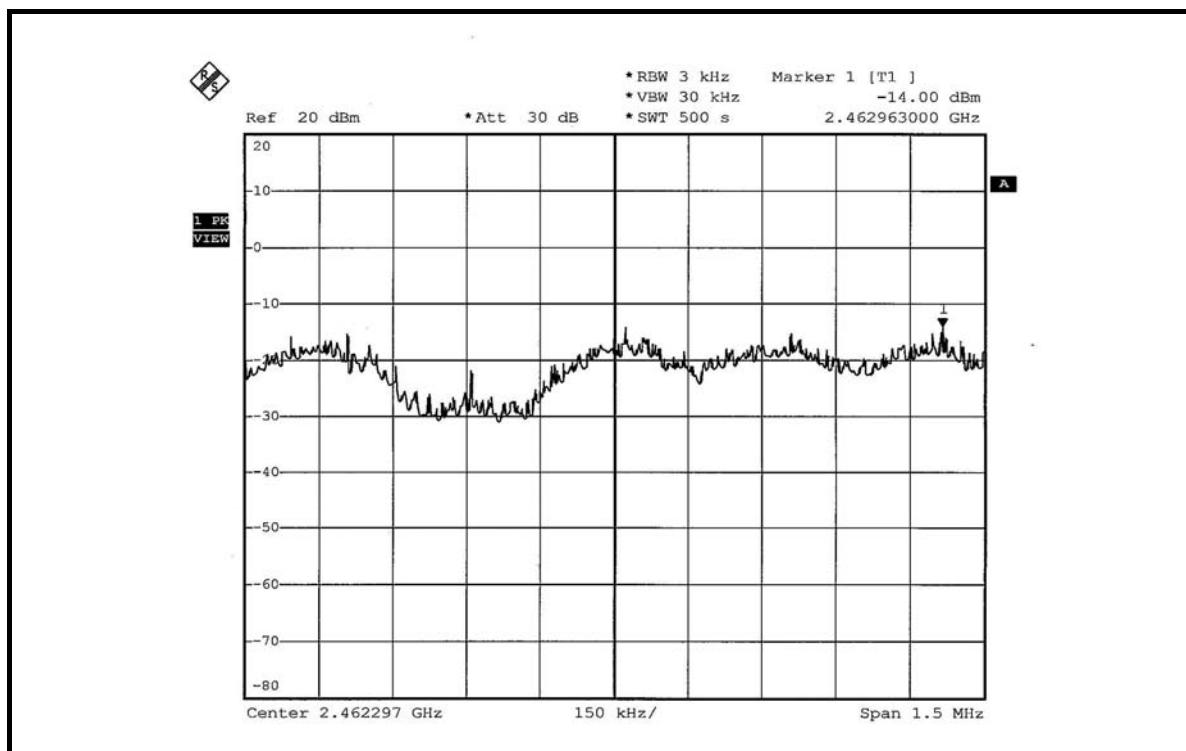
CH 1



CH 9



CH 11



4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF BAND EDGES MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.6.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP 40	100040	Jun. 07, 2007

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.6.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low loss cable. Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

The spectrum plots (Peak RBW=VBW=100kHz; Average RBW=1MHz, VBW=10Hz) are attached on the following pages.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation

4.6.5 EUT OPERATING CONDITION

Same as Item 4.3.6

4.6.6 TEST RESULTS

The spectrum plots are attached on the following 12 images. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(d).

SINGLE TX: 802.11b DSSS MODULATION

NOTE 1: The band edge emission plot on the next page shows 50.16dBc between carrier maximum power and local maximum emission in restrict band (2.38572GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 111.97dBuV/m (Peak), so the maximum field strength in restrict band is $111.97 - 50.16 = 61.81$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot of on the next page shows 55.14dBc between carrier maximum power and local maximum emission in restrict band (2.38572GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 108.12dBuV/m (Average), so the maximum field strength in restrict band is $108.12 - 55.14 = 52.98$ dBuV/m which is under 54dBuV/m limit.

NOTE 2: The band edge emission plot on the next second page shows 52.61dBc between carrier maximum power and local maximum emission in restrict band (2.48902GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 113.25dBuV/m (Peak), so the maximum field strength in restrict band is $113.25 - 52.61 = 60.64$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next third page shows 57.57dBc between carrier maximum power and local maximum emission in restrict band (2.48472GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 109.39dBuV/m (Average), so the maximum field strength in restrict band is $109.39 - 57.57 = 51.82$ dBuV/m which is under 54dBuV/m limit.

