

FCC TEST REPORT

REPORT NO.: RF950601L15

MODEL NO.: WN311T

RECEIVED: Jun. 09, 2006

TESTED: Jun. 09 ~ 21, 2006

ISSUED: Jun. 26, 2006

APPLICANT: Netgear Incorporated

ADDRESS: 4500 Great America Parkway Santa Clara,
CA 95054, U.S.A.

ISSUED BY: Advance Data Technology Corporation

LAB ADDRESS: 47 14th Lin, Chiapau Tsun, Linko, Taipei, Taiwan,
R.O.C.

TEST LOCATION: No. 19, Hwa Ya 2nd Rd., Kueishan, Taoyuan,
Taiwan, R.O.C.

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1. CERTIFICATION

PRODUCT: RangeMax NEXT Wireless PCI Adapter
MODEL: WN311T
BRAND: NETGEAR
APPLICANT: Netgear Incorporated
TESTED: Jun. 09 ~ 21, 2006
TEST SAMPLE: ENGINEERING SAMPLE
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:** Jun. 26, 2006
Rennie Wang

TECHNICAL
ACCEPTANCE : Long Chen , **DATE:** Jun. 26, 2006
Responsible for RF Long Chen

APPROVED BY : Gary Chang , **DATE:** Jun. 26, 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			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -14.98dB at 0.642MHz.
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)	Transmitter Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit. Minimum passing margin is -1.07dB at 2389.00MHz.
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	2.44dB
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

PRODUCT	RangeMax NEXT Wireless PCI Adapter
MODEL NO.	WN311T
FCC ID	PY306200053
POWER SUPPLY	3.3Vdc from host equipment
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 Draft 802.11n (20MHz): 144.444/ 130.000/ 115.556/ 86.667/ 57.778/ 43.333/ 28.889/ 14.444/ 72.2/ 65.0/ 57.8/ 43.3/ 28.9/ 21.7/ 14.4/ 7.2Mbps Draft 802.11n (40MHz): 300/ 270/ 240/ 180/ 120/ 90/ 60/ 30/ 150/ 135/ 120/ 90/ 60/ 45/ 30/ 15Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11 for 802.11b, 802.11g, draft 802.11n (20MHz) 7 for draft 802.11n (40MHz), 802.11b (CB mode)
MAXIMUM OUTPUT POWER	227.528mW
ANTENNA TYPE	Dipole antenna with -1.1dBi gain
DATA CABLE	NA
I/O PORTS	NA

NOTE:

1. The EUT incorporates a MIMO function with 802.11b, 802.11g, draft 802.11n. Physically, the card provides two completed transmitters and three receivers.
2. The EUT is 2 * 3 spatial MIMO (2Tx & 3Rx) without beam forming function that only operate dual chain configuration (both chain 0 and chain 1 transceivers are operational).
3. When the EUT operating in 802.11b, 802.11g, the software operation, which is defined by manufacturer, only set dual Tx.
4. When the EUT operating in 802.11b with "Channel Binding function", the software operation, which is defined by manufacturer, only set dual Tx.
5. When the EUT operating in draft 802.11n, the software operation, which is defined by manufacturer, only set 0 ~ 15 of "MCS" (MCS: Modulation and Coding Schemes) for dual Tx.
6. The EUT complies with draft 802.11n standards and backwards compatible with 802.11b, 802.11g products.
7. The EUT operates in the 2.4GHz frequency spectrum with throughput of up to 300Mbps.
8. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 DESCRIPTION OF TEST MODES

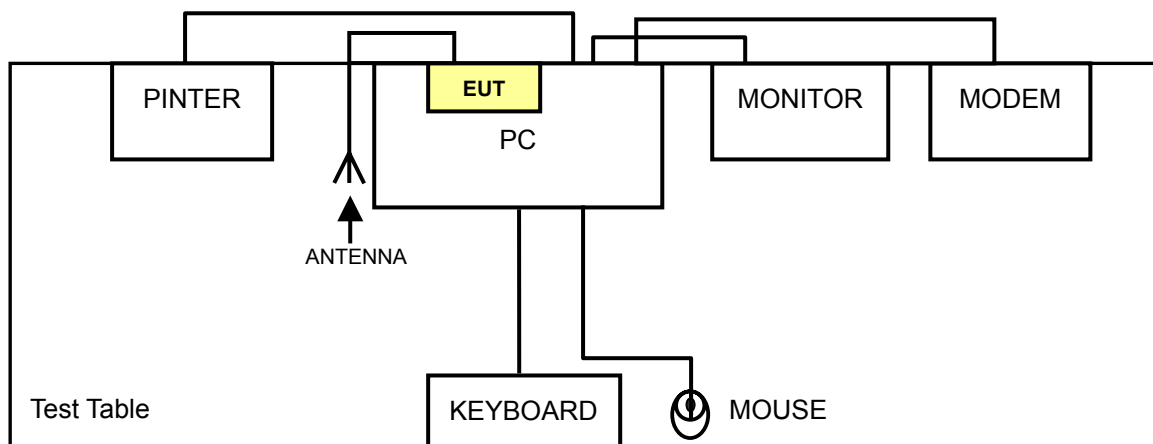
Eleven channels are provided for 802.11b, 802.11g, draft 802.11n (20MHz):

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

Seven channels are provided for 802.11 b(CB mode) and draft 802.11n (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2422MHz	5	2442MHz
2	2427MHz	6	2447MHz
3	2432MHz	7	2452MHz
4	2437MHz		

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST



3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	PLC	RE < 1G	RE ≥ 1G	APCM	
-	√	√	√	√	-

Where **PLC**: Power Line Conducted Emission

RE < 1G: Radiated Emission below 1GHz

RE ≥ 1G: Radiated Emission above 1GHz

APCM: Antenna Port Conducted Measurement

POWER LINE CONDUCTED EMISSION TEST:

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	TX CONDITION
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0	Dual
Draft 802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	7.2	Dual
Draft 802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	15.0	Dual
802.11b (CB Mode)	1 to 7	1, 4, 7	DSSS	DBPSK	1.0	Dual

RADIATED EMISSION TEST (BELOW 1 GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	TX CONDITION
802.11g	1 to 11	1	OFDM	BPSK	6.0	Dual
Draft 802.11n (20MHz)	1 to 11	1	OFDM	BPSK	7.2	Dual
Draft 802.11n (40MHz)	1 to 7	1	OFDM	BPSK	15.0	Dual
802.11b (CB Mode)	1 to 7	1	DSSS	DBPSK	1.0	Dual

RADIATED EMISSION TEST (ABOVE 1 GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	TX CONDITION
802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0	Dual
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0	Dual
Draft 802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	7.2	Dual
Draft 802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	15.0	Dual
802.11b (CB mode)	1 to 7	1, 4, 7	DSSS	DBPSK	1.0	Dual

BANDEDGE MEASUREMENT:

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	TX CONDITION
802.11b	1 to 11	1, 11	DSSS	DBPSK	1.0	Dual
802.11g	1 to 11	1, 11	OFDM	BPSK	6.0	Dual
Draft 802.11n (20MHz)	1 to 11	1, 11	OFDM	BPSK	7.2	Dual
Draft 802.11n (40MHz)	1 to 7	1, 7	OFDM	BPSK	15.0	Dual
802.11b (CB mode)	1 to 7	1, 7	DSSS	DBPSK	1.0	Dual

ANTENNA PORT CONDUCTED MEASUREMENT:

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	TX CONDITION
802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0	Dual
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0	Dual
Draft 802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	7.2	Dual
Draft 802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	15.0	Dual
802.11b (CB mode)	1 to 7	1, 4, 7	DSSS	DBPSK	1.0	Dual

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	PC	MSI	Hetis 865G Giga	3AS0119574	FCC DoC Approved
2	LCD MONITOR	ACER	AL1721	ET.L0408.0104 04001F9PK00	FCC DoC Approved
3	PRINTER	EPSON	LQ-300+	DCGY047265	FCC DoC Approved
4	MODEM	ACEEX	1414V/3	0401008248	IFAXDM1414
5	KEYBOARD	DELL	SK-8110	MY-05N456- 71619-4B5- 1034	FCC DoC Approved
6	MOUSE	DELL	MO56U0	516056250	FCC DoC Approved

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	1.8m shielded cable
3	1.2m shielded cable
4	1.2m shielded cable
5	1.5m non-shielded cable
6	1.5m non-shielded cable

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

4. TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	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	100291	Nov. 11, 2006
RF signal cable Woken	5D-FB	Cable-HYC01-01	Jan. 06, 2007
LISN ROHDE & SCHWARZ	ESH3-Z5	100312	Feb. 15, 2007
LISN ROHDE & SCHWARZ	ESH2-Z5	100104	Feb. 07, 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 1.
 3. The VCCI Site Registration No. is C-2040.

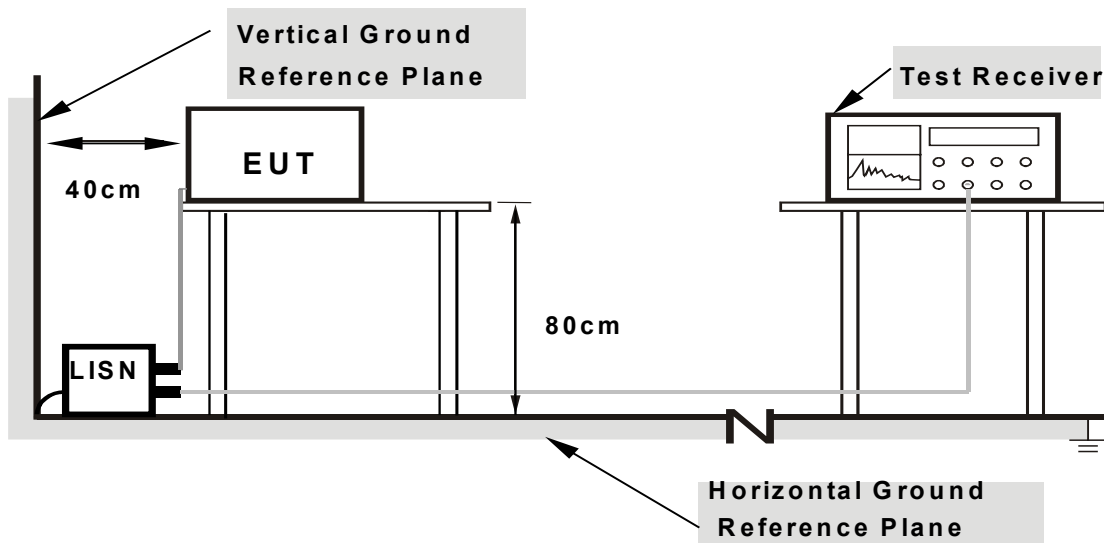
4.1.3 TEST PROCEDURES

- 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. Connected the EUT into the computer system and placed on a testing table.
- b. The computer system ran a test program (provided by manufacturer) to enable EUT under transmission/receiving condition continuously at specific channel frequency.
- c. The computer system sent "H" messages to monitor, and the monitor displayed them on the screen.
- d. The computer system show "H" messages to modem.
- e. The computer system sent "H" messages to printer and the printer prints them on paper.
- f. Repeated item c ~e.

4.1.7 TEST RESULTS

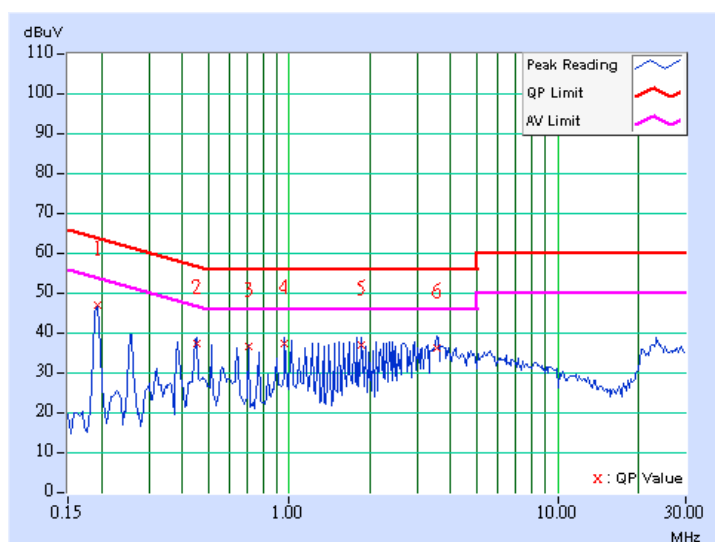
CONDUCTED WORST-CASE DATA:

802.11g OFDM MODULATION: DUAL TX

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen

	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	0.193	0.10	46.60	-	45.70	-	63.91	53.91	-18.21	-
2	0.451	0.11	37.17	-	37.28	-	56.86	46.86	-19.58	-
3	0.705	0.15	36.42	-	36.57	-	56.00	46.00	-19.43	-
4	0.963	0.19	37.11	-	37.30	-	56.00	46.00	-18.70	-
5	1.859	0.20	36.66	-	36.86	-	56.00	46.00	-19.14	-
6	3.527	0.41	35.76	-	36.17	-	56.00	46.00	-19.83	-

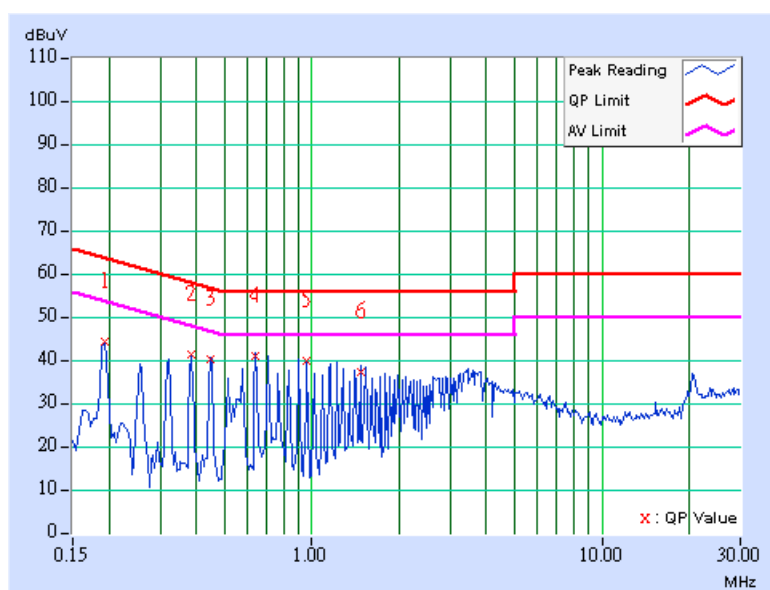
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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	9 kHz
TRANSFER RATE	6.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen

	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	0.193	0.10	44.32	-	43.42	-	63.91	53.91	-20.49	-
2	0.384	0.10	41.22	-	40.32	-	58.18	48.18	-17.86	-
3	0.447	0.10	40.16	-	39.26	-	56.93	46.93	-17.67	-
4	0.642	0.10	41.12	-	40.22	-	56.00	46.00	-15.78	-
5	0.963	0.10	39.94	-	39.14	-	56.00	46.00	-16.86	-
6	1.477	0.15	37.31	-	37.46	-	56.00	46.00	-18.54	-

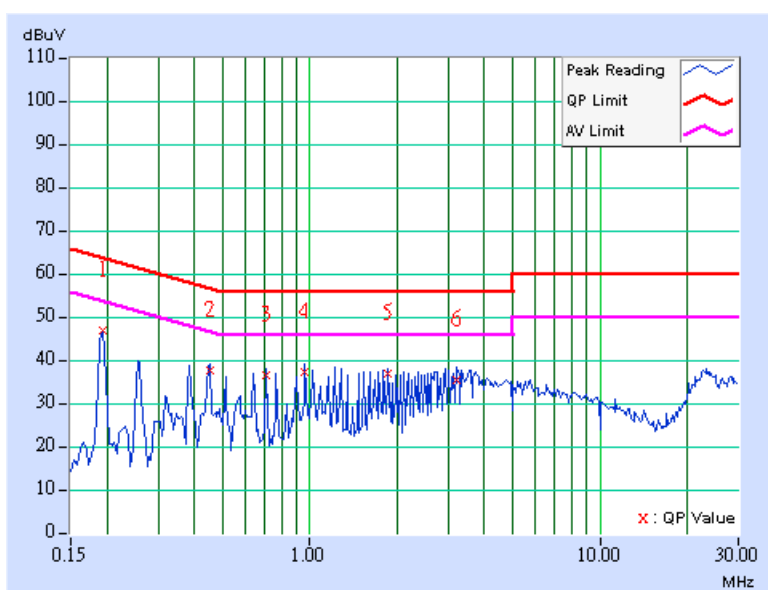
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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	9 kHz
TRANSFER RATE	6.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen

	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	0.193	0.10	46.62	-	46.72	-	63.91	53.91	-17.19	-
2	0.451	0.11	37.29	-	37.40	-	56.86	46.86	-19.46	-
3	0.705	0.15	36.44	-	36.59	-	56.00	46.00	-19.41	-
4	0.963	0.19	37.15	-	37.34	-	56.00	46.00	-18.66	-
5	1.859	0.20	36.62	-	36.82	-	56.00	46.00	-19.18	-
6	3.207	0.36	35.14	-	35.50	-	56.00	46.00	-20.50	-

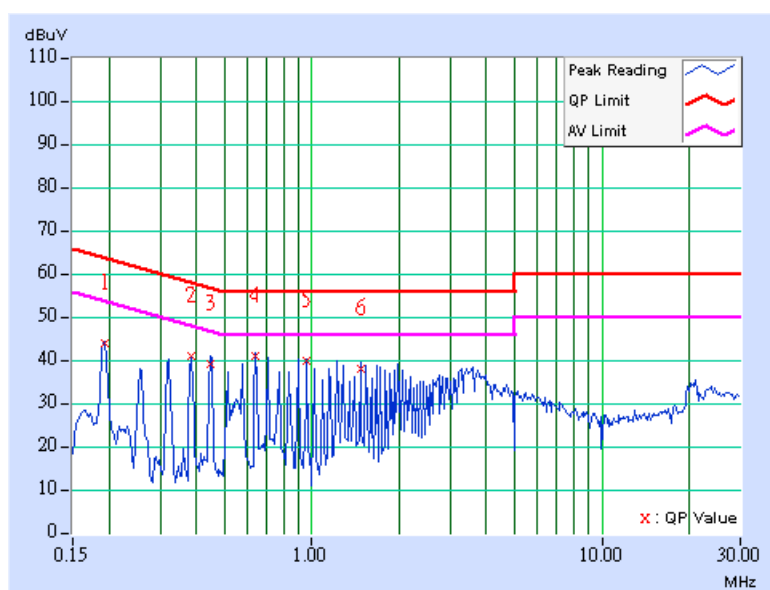
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen

	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	0.193	0.10	43.98	-	44.08	-	63.91	53.91	-19.83	-
2	0.384	0.10	40.92	-	41.02	-	58.18	48.18	-17.16	-
3	0.447	0.10	38.95	-	39.05	-	56.93	46.93	-17.88	-
4	0.642	0.10	40.92	-	41.02	-	56.00	46.00	-14.98	-
5	0.963	0.10	39.92	-	40.02	-	56.00	46.00	-15.98	-
6	1.477	0.15	37.98	-	38.13	-	56.00	46.00	-17.87	-

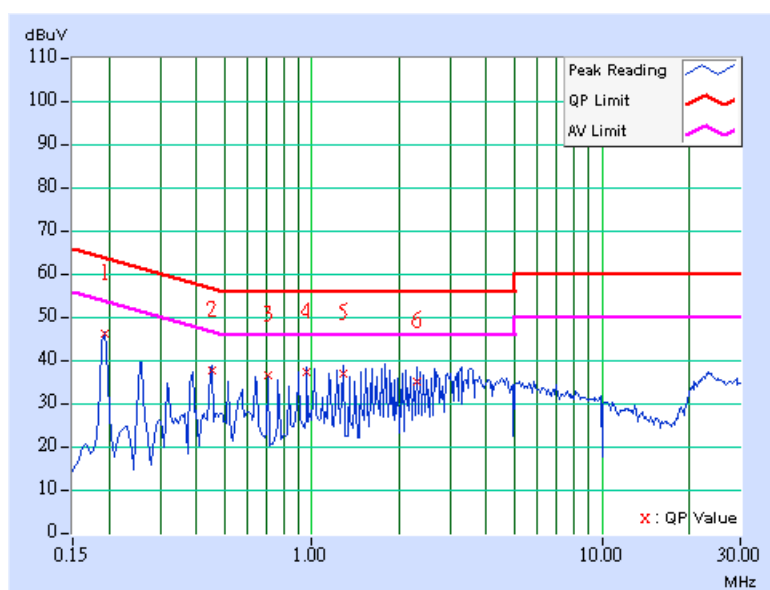
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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	9 kHz
TRANSFER RATE	6.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen

	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	0.193	0.10	45.96	-	46.06	-	63.91	53.91	-17.85	-
2	0.451	0.11	37.45	-	37.56	-	56.86	46.86	-19.30	-
3	0.705	0.15	36.30	-	36.45	-	56.00	46.00	-19.55	-
4	0.963	0.19	37.17	-	37.36	-	56.00	46.00	-18.64	-
5	1.285	0.20	36.90	-	37.10	-	56.00	46.00	-18.90	-
6	2.313	0.24	35.04	-	35.28	-	56.00	46.00	-20.72	-

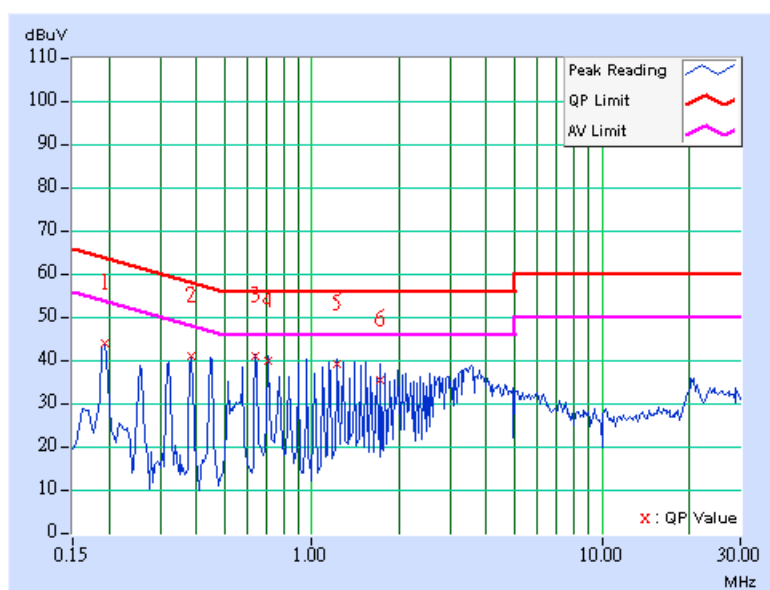
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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 11	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen

	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	0.193	0.10	43.94	-	44.04	-	63.91	53.91	-19.87	-
2	0.384	0.10	40.92	-	41.02	-	58.18	48.18	-17.16	-
3	0.642	0.10	40.92	-	41.02	-	56.00	46.00	-14.98	-
4	0.705	0.10	39.96	-	40.06	-	56.00	46.00	-15.94	-
5	1.219	0.12	38.97	-	39.09	-	56.00	46.00	-16.91	-
6	1.730	0.17	35.37	-	35.54	-	56.00	46.00	-20.46	-

- 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.

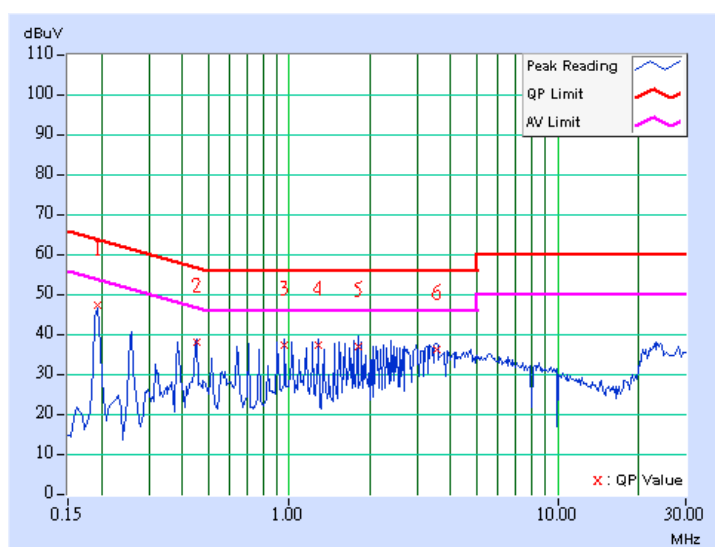


DRAFT 802.11n (20MHz) OFDM MODULATION: DUAL TX

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen

	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	0.193	0.10	46.96	-	47.06	-	63.91	53.91	-16.84	-
2	0.451	0.11	37.65	-	37.76	-	56.86	46.86	-19.10	-
3	0.963	0.19	36.95	-	37.14	-	56.00	46.00	-18.86	-
4	1.285	0.20	37.02	-	37.22	-	56.00	46.00	-18.78	-
5	1.801	0.20	36.78	-	36.98	-	56.00	46.00	-19.02	-
6	3.535	0.41	35.76	-	36.17	-	56.00	46.00	-19.83	-

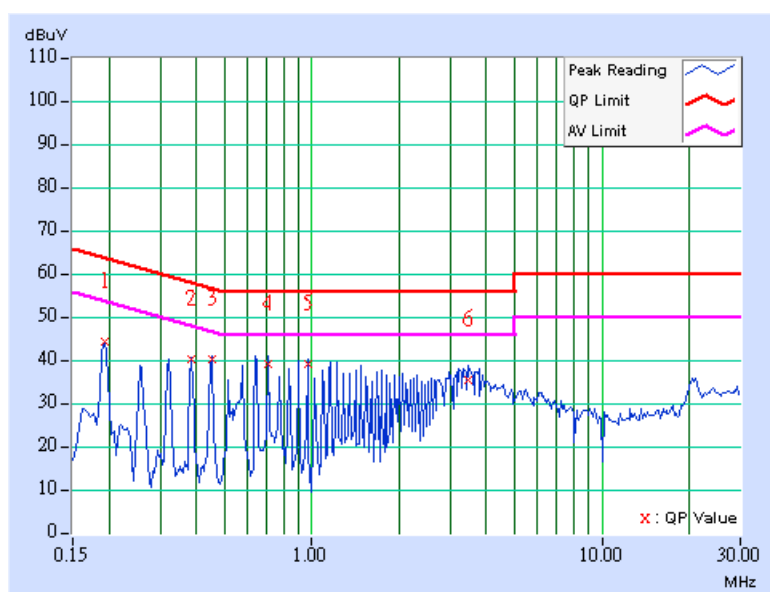
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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	9 kHz
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen

	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	0.193	0.10	43.98	-	44.08	-	63.91	53.91	-19.83	-
2	0.384	0.10	39.96	-	40.06	-	58.18	48.18	-18.12	-
3	0.451	0.10	39.93	-	40.03	-	56.86	46.86	-16.83	-
4	0.705	0.10	38.98	-	39.08	-	56.00	46.00	-16.92	-
5	0.966	0.10	38.95	-	39.05	-	56.00	46.00	-16.95	-
6	3.473	0.33	35.14	-	35.47	-	56.00	46.00	-20.53	-

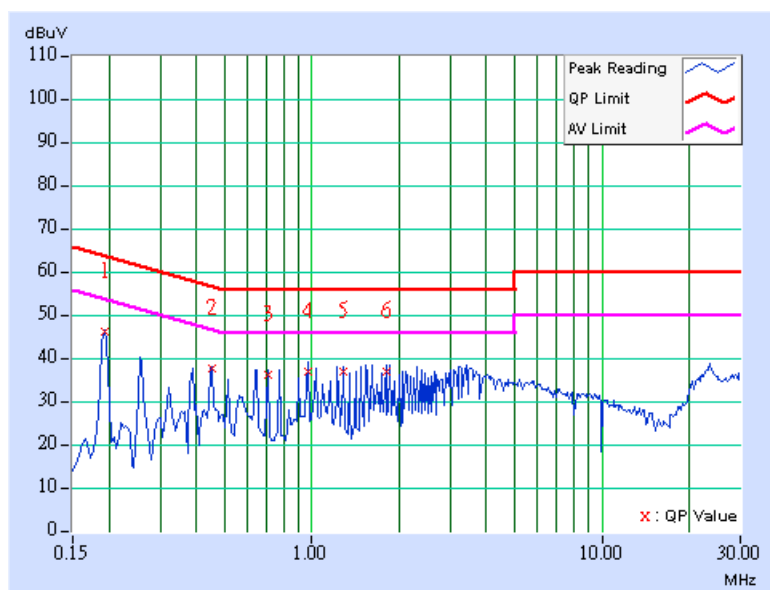
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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	9 kHz
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen

	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	0.193	0.10	45.96	-	46.06	-	63.91	53.91	-17.85	-
2	0.451	0.11	37.69	-	37.80	-	56.86	46.86	-19.06	-
3	0.709	0.15	36.20	-	36.35	-	56.00	46.00	-19.65	-
4	0.966	0.19	36.95	-	37.14	-	56.00	46.00	-18.86	-
5	1.285	0.20	36.80	-	37.00	-	56.00	46.00	-19.00	-
6	1.801	0.20	37.02	-	37.22	-	56.00	46.00	-18.78	-

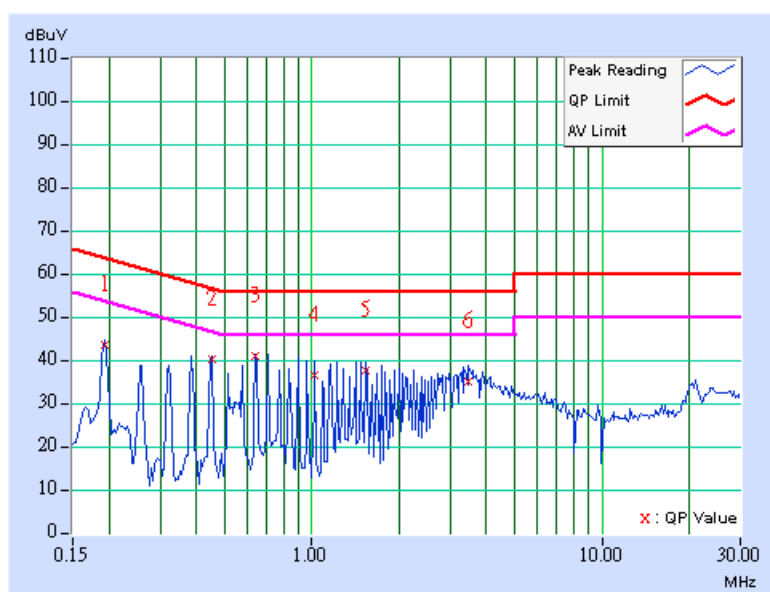
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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	9 kHz
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen

	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	0.193	0.10	43.36	-	43.46	-	63.91	53.91	-20.45	-
2	0.451	0.10	39.96	-	40.06	-	56.86	46.86	-16.80	-
3	0.642	0.10	40.72	-	40.82	-	56.00	46.00	-15.18	-
4	1.027	0.10	36.43	-	36.53	-	56.00	46.00	-19.47	-
5	1.543	0.15	37.39	-	37.54	-	56.00	46.00	-18.46	-
6	3.469	0.32	34.93	-	35.25	-	56.00	46.00	-20.75	-

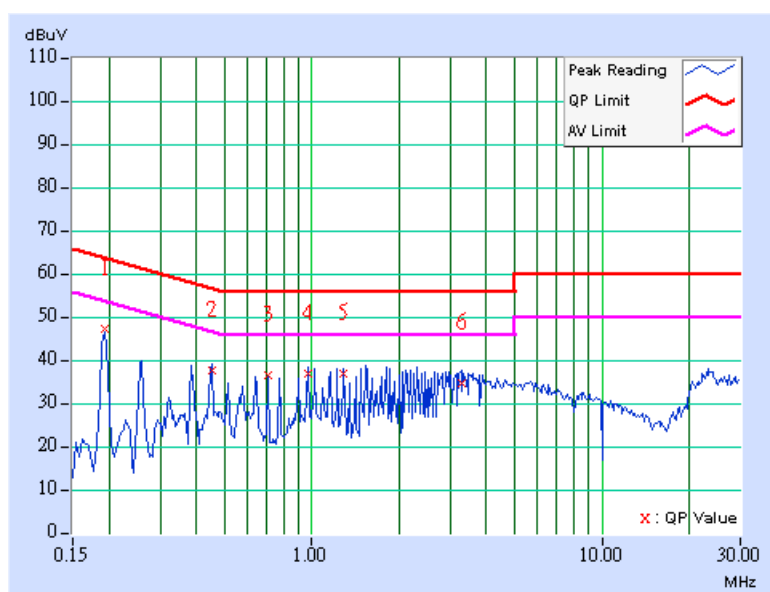
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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	9 kHz
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen

	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	0.193	0.10	46.92	-	47.02	-	63.91	53.91	-16.89	-
2	0.451	0.11	37.39	-	37.50	-	56.86	46.86	-19.36	-
3	0.709	0.15	36.14	-	36.29	-	56.00	46.00	-19.71	-
4	0.966	0.19	36.82	-	37.01	-	56.00	46.00	-18.99	-
5	1.285	0.20	36.63	-	36.83	-	56.00	46.00	-19.17	-
6	3.281	0.37	34.58	-	34.95	-	56.00	46.00	-21.05	-

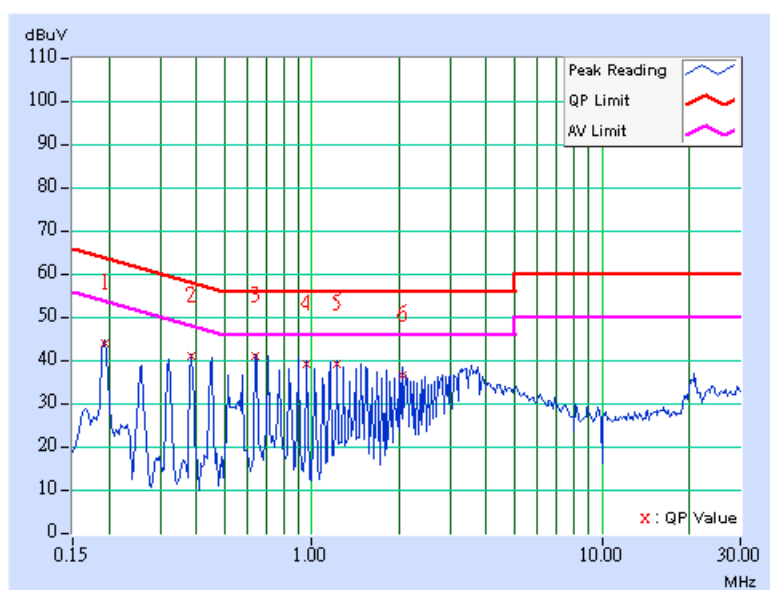
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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	9 kHz
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen

	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	0.193	0.10	43.92	-	44.02	-	63.91	53.91	-19.89	-
2	0.384	0.10	40.96	-	41.06	-	58.18	48.18	-17.12	-
3	0.642	0.10	40.91	-	41.01	-	56.00	46.00	-14.99	-
4	0.963	0.10	38.93	-	39.03	-	56.00	46.00	-16.97	-
5	1.223	0.12	38.98	-	39.11	-	56.00	46.00	-16.89	-
6	2.059	0.20	36.40	-	36.60	-	56.00	46.00	-19.40	-

- 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.

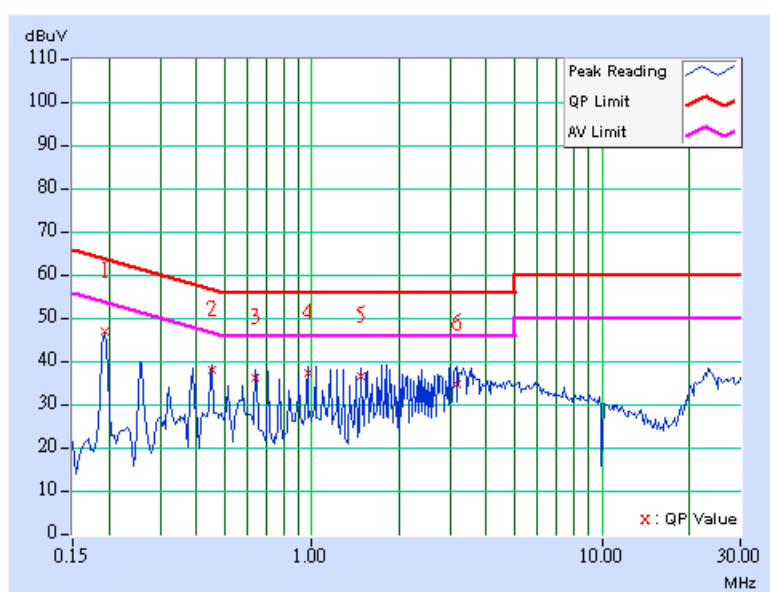


DRAFT 802.11n (40MHz) OFDM MODULATION: DUAL TX

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen

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	0.193	0.10	46.64	-	46.74	-	63.91	53.91	-17.17	-
2	0.451	0.11	37.79	-	37.90	-	56.86	46.86	-18.96	-
3	0.642	0.14	35.86	-	36.00	-	56.00	46.00	-20.00	-
4	0.966	0.19	37.23	-	37.42	-	56.00	46.00	-18.58	-
5	1.480	0.20	36.15	-	36.35	-	56.00	46.00	-19.65	-
6	3.152	0.36	34.39	-	34.75	-	56.00	46.00	-21.25	-

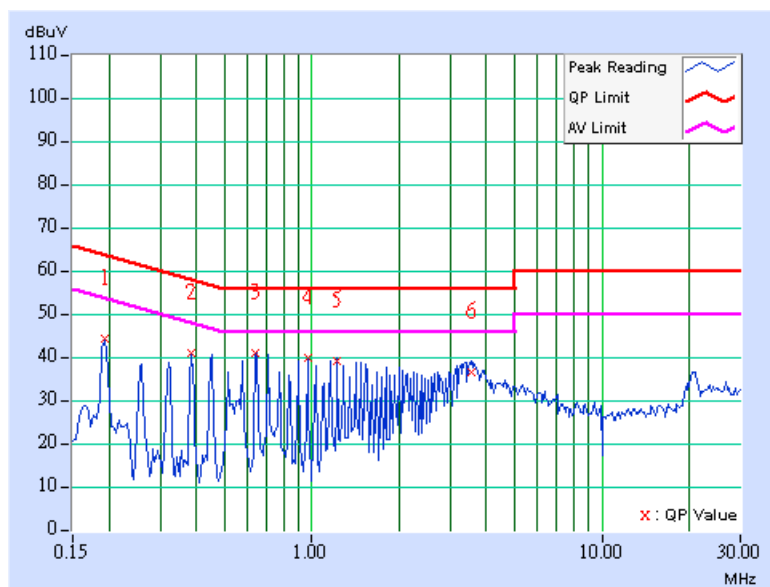
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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	9 kHz
TRANSFER RATE	15.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	43.93	-	44.03	-	63.91	53.91	-19.87	-
2	0.384	0.10	40.92	-	41.02	-	58.18	48.18	-17.16	-
3	0.642	0.10	40.91	-	41.01	-	56.00	46.00	-14.99	-
4	0.966	0.10	39.61	-	39.71	-	56.00	46.00	-16.29	-
5	1.223	0.12	38.83	-	38.95	-	56.00	46.00	-17.05	-
6	3.539	0.33	36.32	-	36.65	-	56.00	46.00	-19.35	-

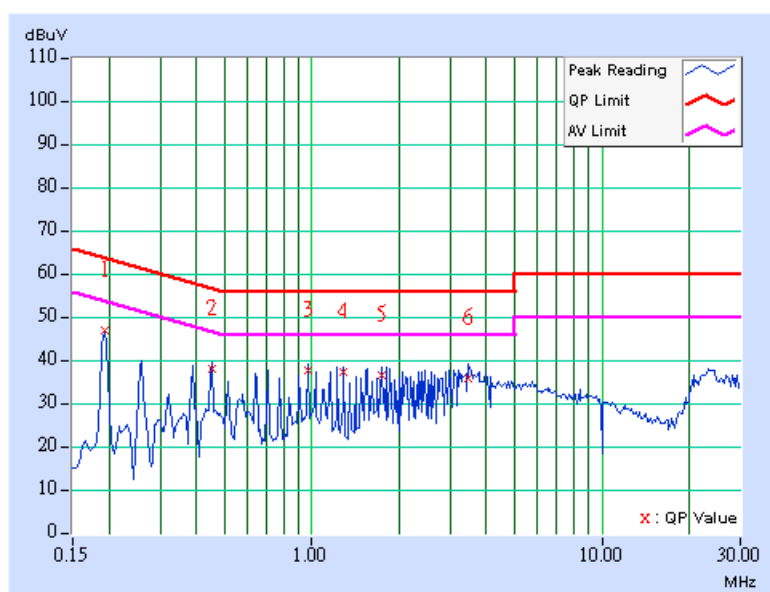
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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 4	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen

	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	0.193	0.10	46.78	-	46.88	-	63.91	53.91	-17.03	-
2	0.451	0.11	37.85	-	37.96	-	56.86	46.86	-18.90	-
3	0.966	0.19	37.27	-	37.46	-	56.00	46.00	-18.54	-
4	1.289	0.20	36.92	-	37.12	-	56.00	46.00	-18.88	-
5	1.738	0.20	36.15	-	36.35	-	56.00	46.00	-19.65	-
6	3.477	0.40	35.39	-	35.79	-	56.00	46.00	-20.21	-

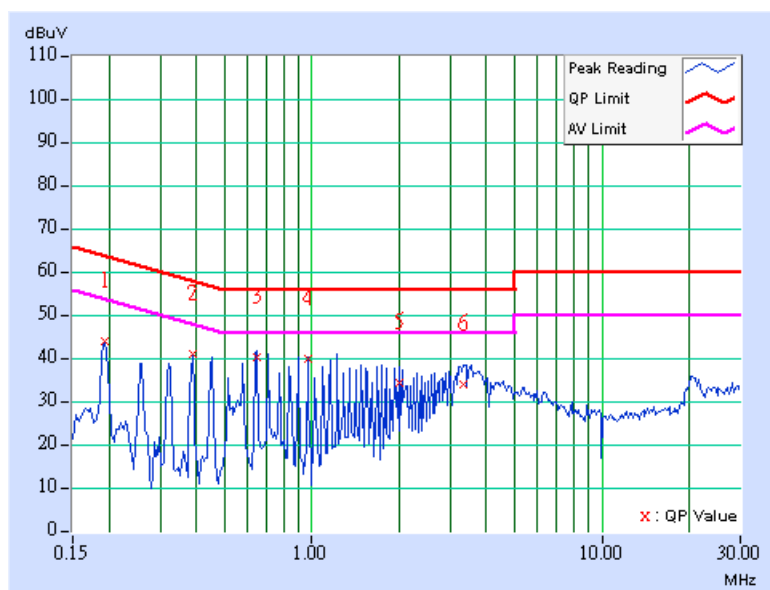
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen

	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	0.193	0.10	43.63	-	43.42	-	63.91	53.91	-20.49	-
2	0.388	0.10	40.95	-	40.05	-	58.10	48.10	-18.05	-
3	0.646	0.10	40.18	-	40.28	-	56.00	46.00	-15.72	-
4	0.966	0.10	39.62	-	39.34	-	56.00	46.00	-16.66	-
5	1.996	0.20	34.19	-	34.39	-	56.00	46.00	-21.61	-
6	3.348	0.31	33.67	-	33.98	-	56.00	46.00	-22.02	-

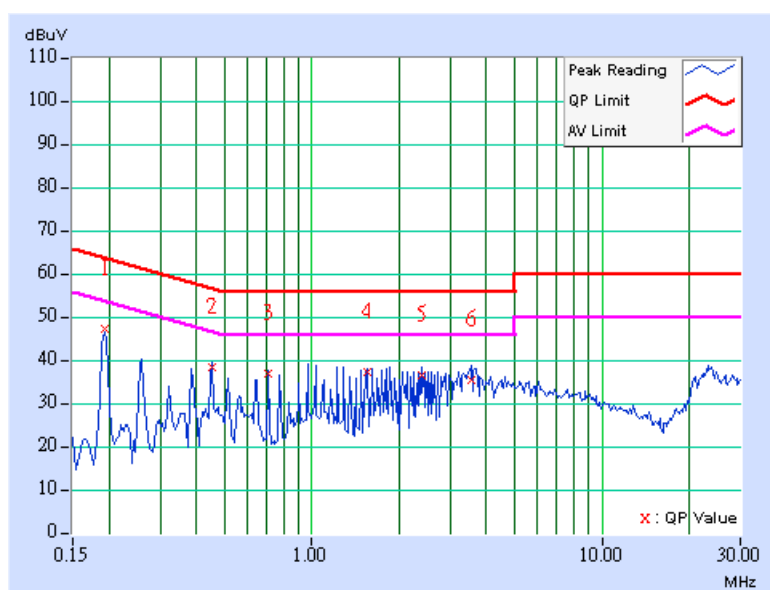
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen

	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	0.193	0.10	46.94	-	47.04	-	63.91	53.91	-16.87	-
2	0.451	0.11	37.99	-	38.10	-	56.86	46.86	-18.76	-
3	0.709	0.15	36.56	-	36.71	-	56.00	46.00	-19.29	-
4	1.547	0.20	37.13	-	37.33	-	56.00	46.00	-18.67	-
5	2.387	0.25	36.35	-	36.60	-	56.00	46.00	-19.40	-
6	3.543	0.41	35.32	-	35.73	-	56.00	46.00	-20.27	-

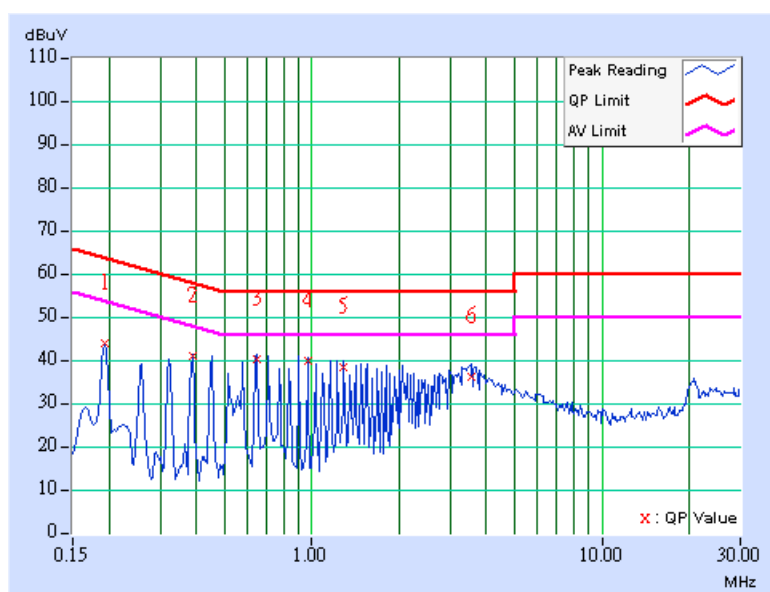
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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 7	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen

	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	0.193	0.10	43.75	-	43.85	-	63.91	53.91	-20.06	-
2	0.388	0.10	40.62	-	40.72	-	58.10	48.10	-17.39	-
3	0.646	0.10	40.10	-	40.20	-	56.00	46.00	-15.80	-
4	0.966	0.10	39.74	-	39.84	-	56.00	46.00	-16.16	-
5	1.289	0.13	38.04	-	38.17	-	56.00	46.00	-17.83	-
6	3.547	0.33	35.88	-	36.21	-	56.00	46.00	-19.79	-

- 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.

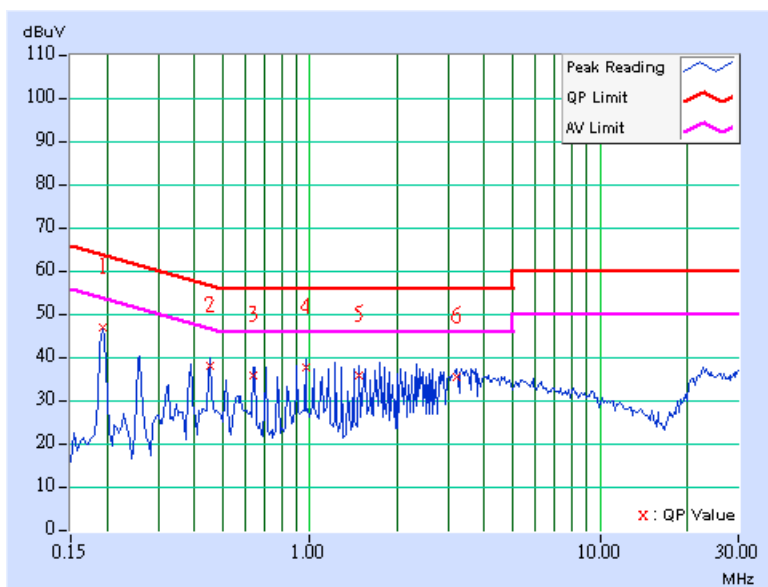


802.11b (CB mode) DSSS MODULATION: DUAL TX

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	DBPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	1.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen

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	0.193	0.10	46.68	-	46.78	-	63.91	53.91	-17.13	-
2	0.451	0.11	37.79	-	37.90	-	56.86	46.86	-18.96	-
3	0.642	0.14	35.40	-	35.54	-	56.00	46.00	-20.46	-
4	0.966	0.19	37.31	-	37.50	-	56.00	46.00	-18.50	-
5	1.484	0.20	35.73	-	35.93	-	56.00	46.00	-20.07	-
6	3.223	0.37	35.31	-	35.68	-	56.00	46.00	-20.32	-

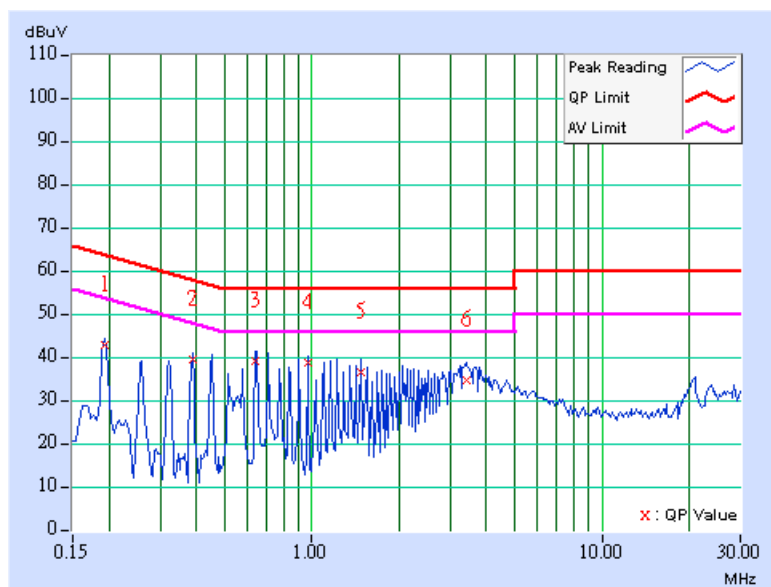
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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 1	PHASE	Line 2
MODULATION TYPE	DBPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	1.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	42.55	-	42.65	-	63.91	53.91	-21.26	-
2	0.388	0.10	39.49	-	39.59	-	58.10	48.10	-18.51	-
3	0.642	0.10	38.91	-	39.01	-	56.00	46.00	-16.99	-
4	0.966	0.10	38.62	-	38.72	-	56.00	46.00	-17.28	-
5	1.484	0.15	36.19	-	36.34	-	56.00	46.00	-19.66	-
6	3.414	0.32	34.59	-	34.91	-	56.00	46.00	-21.09	-

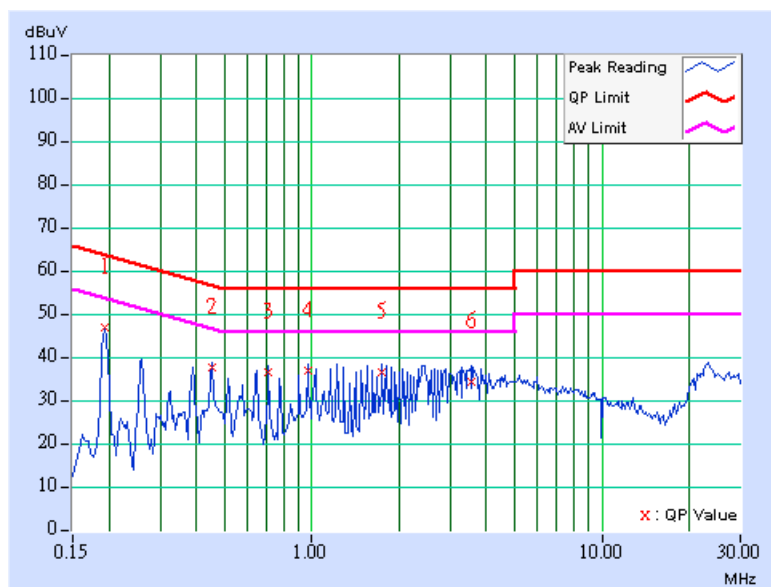
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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	PHASE	Line 1
MODULATION TYPE	DBPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	1.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	46.74	-	46.84	-	63.91	53.91	-17.07	-
2	0.451	0.11	37.51	-	37.62	-	56.86	46.86	-19.24	-
3	0.709	0.15	36.18	-	36.33	-	56.00	46.00	-19.67	-
4	0.970	0.20	36.72	-	36.92	-	56.00	46.00	-19.08	-
5	1.742	0.20	36.13	-	36.33	-	56.00	46.00	-19.67	-
6	3.547	0.41	34.02	-	34.43	-	56.00	46.00	-21.57	-

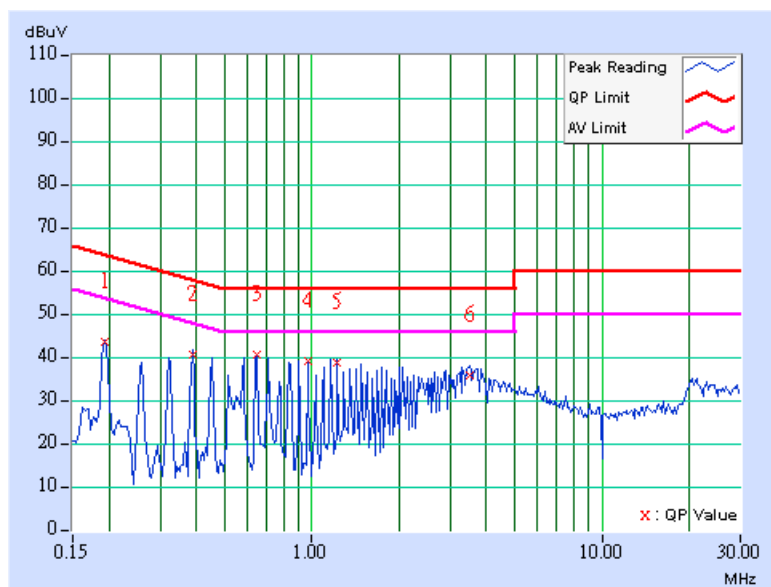
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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	PHASE	Line 2
MODULATION TYPE	DBPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	1.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	43.52	-	43.29	-	63.91	53.91	-20.62	-
2	0.388	0.10	40.42	-	40.29	-	58.10	48.10	-17.81	-
3	0.646	0.10	40.53	-	40.40	-	56.00	46.00	-15.60	-
4	0.970	0.10	38.77	-	38.81	-	56.00	46.00	-17.19	-
5	1.227	0.12	38.73	-	38.85	-	56.00	46.00	-17.15	-
6	3.488	0.33	35.57	-	35.90	-	56.00	46.00	-20.10	-

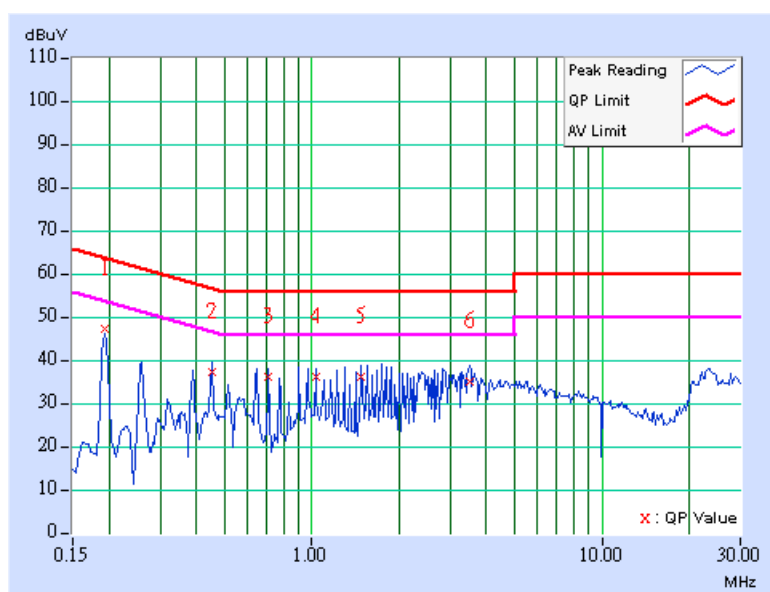
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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 7	PHASE	Line 1
MODULATION TYPE	DBPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	1.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen

	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	0.193	0.10	46.84	-	46.94	-	63.91	53.91	-16.97	-
2	0.451	0.11	37.15	-	37.26	-	56.86	46.86	-19.60	-
3	0.709	0.15	35.98	-	36.13	-	56.00	46.00	-19.87	-
4	1.031	0.20	35.73	-	35.93	-	56.00	46.00	-20.07	-
5	1.484	0.20	35.87	-	36.07	-	56.00	46.00	-19.93	-
6	3.488	0.40	34.69	-	35.09	-	56.00	46.00	-20.91	-

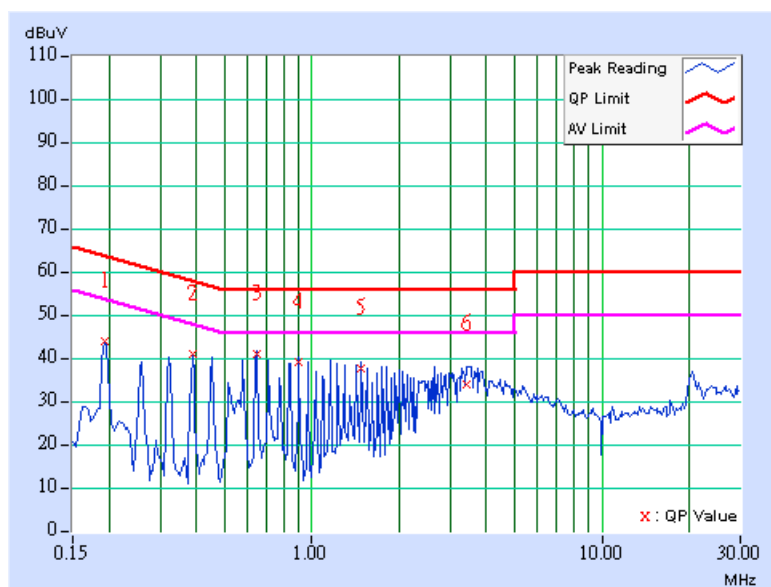
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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 7	PHASE	Line 2
MODULATION TYPE	DBPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	1.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 991hPa	TESTED BY	Long Chen

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	43.76	-	43.86	-	63.91	53.91	-20.05	-
2	0.388	0.10	40.85	-	40.95	-	58.10	48.10	-17.15	-
3	0.646	0.10	40.68	-	40.78	-	56.00	46.00	-15.22	-
4	0.904	0.10	38.90	-	39.00	-	56.00	46.00	-17.00	-
5	1.484	0.15	37.41	-	37.56	-	56.00	46.00	-18.44	-
6	3.418	0.32	33.90	-	34.22	-	56.00	46.00	-21.78	-

- 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 3.
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.

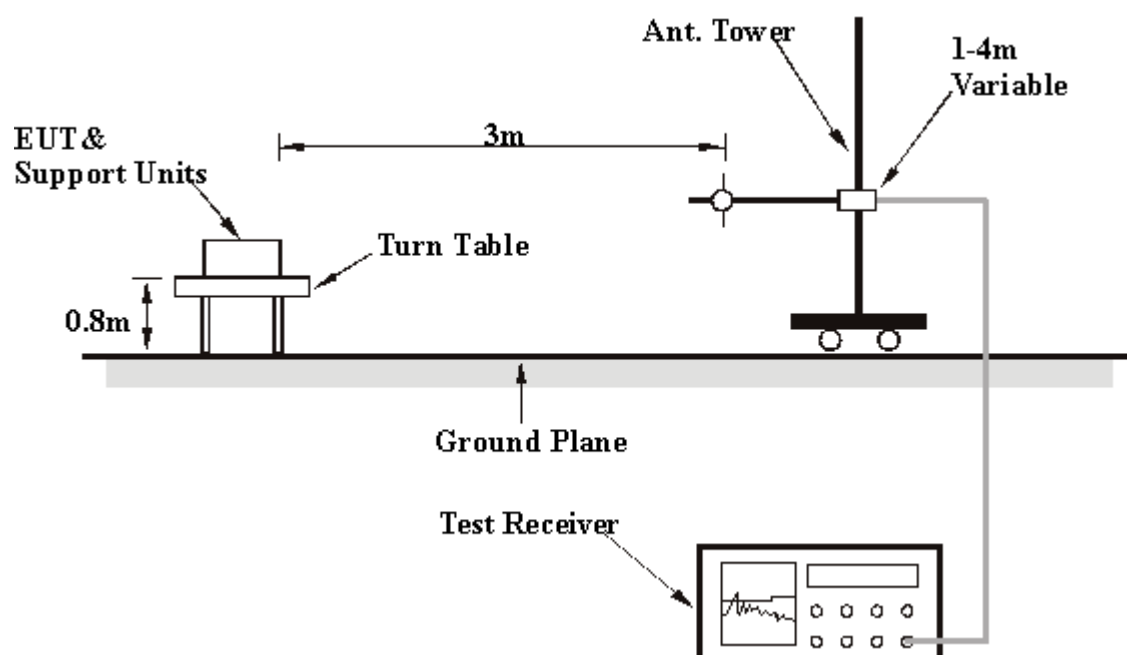
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 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 802.11g OFDM MODULATION: DUAL TX

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK for 802.11g	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6.0Mbps	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	183.57	37.84 QP	43.50	-5.66	1.50 H	214	26.18	11.66
2	203.01	37.19 QP	43.50	-6.31	1.00 H	103	26.33	10.86
3	304.09	33.13 QP	46.00	-12.87	1.00 H	298	17.65	15.49
4	370.18	41.87 QP	46.00	-4.13	1.75 H	7	25.07	16.79
5	403.23	39.32 QP	46.00	-6.68	1.00 H	172	21.46	17.86
6	673.43	34.60 QP	46.00	-11.40	1.75 H	244	11.01	23.60

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	304.09	31.21 QP	46.00	-14.79	1.25 V	214	15.72	15.49
2	368.24	36.29 QP	46.00	-9.71	1.25 V	244	19.56	16.73
3	539.30	34.65 QP	46.00	-11.35	1.00 V	331	13.88	20.78
4	580.12	37.08 QP	46.00	-8.92	1.00 V	316	15.15	21.93
5	729.80	36.03 QP	46.00	-9.97	1.50 V	352	10.91	25.12
6	943.63	38.89 QP	46.00	-7.11	1.00 V	298	9.40	29.49

- 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.

DRAFT 802.11n (20MHz) OFDM MODULATION: DUAL TX

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK for draft 802.11n (20MHz)	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	7.2Mbps	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	168.02	29.81 QP	43.50	-13.69	1.25 H	73	17.11	12.70
2	304.09	34.35 QP	46.00	-11.65	1.00 H	253	18.87	15.49
3	370.18	38.92 QP	46.00	-7.08	1.00 H	169	22.13	16.79
4	438.22	33.06 QP	46.00	-12.94	1.50 H	187	14.57	18.49
5	580.12	32.31 QP	46.00	-13.69	1.25 H	181	10.38	21.93
6	675.37	31.68 QP	46.00	-14.32	1.00 H	193	8.04	23.64

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	168.02	30.69 QP	43.50	-12.81	1.25 V	187	17.99	12.70
2	368.24	37.27 QP	46.00	-8.73	1.00 V	208	20.54	16.73
3	438.22	33.02 QP	46.00	-12.98	1.00 V	238	14.53	18.49
4	580.12	35.34 QP	46.00	-10.66	1.50 V	280	13.41	21.93
5	731.74	34.20 QP	46.00	-11.80	1.50 V	13	9.02	25.18
6	980.56	35.61 QP	54.00	-18.39	1.00 V	298	6.48	29.13

- 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.

DRAFT 802.11n (40MHz) OFDM MODULATION: DUAL TX

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK for draft 802.11n (40MHz)	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	15.0Mbps	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	203.01	30.82 QP	43.50	-12.68	1.25 H	94	19.96	10.86
2	304.09	34.03 QP	46.00	-11.97	1.00 H	295	18.54	15.49
3	370.18	38.95 QP	46.00	-7.05	1.50 H	211	22.16	16.79
4	438.22	32.55 QP	46.00	-13.45	1.50 H	229	14.06	18.49
5	539.30	28.42 QP	46.00	-17.58	1.00 H	154	7.64	20.78
6	675.37	30.76 QP	46.00	-15.24	1.00 H	229	7.12	23.64

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	168.02	34.34 QP	43.50	-9.16	1.00 V	220	21.64	12.70
2	335.19	31.41 QP	46.00	-14.59	1.00 V	229	15.50	15.91
3	368.24	37.39 QP	46.00	-8.61	1.00 V	244	20.66	16.73
4	438.22	32.11 QP	46.00	-13.89	1.00 V	283	13.62	18.49
5	539.30	30.39 QP	46.00	-15.61	1.00 V	190	9.61	20.78
6	945.57	38.13 QP	46.00	-7.87	1.00 V	259	8.54	29.58

- 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.

802.11b (CB mode) DSSS MODULATION: DUAL TX

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	DBPSK for 802.11b (CB mode)	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	1.0Mbps	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	23deg. C, 63%RH, 991hPa	TESTED BY	Brad Wu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	203.01	34.92 QP	43.50	-8.58	1.00 H	94	24.06	10.86
2	304.09	34.28 QP	46.00	-11.72	1.00 H	289	18.79	15.49
3	368.24	41.23 QP	46.00	-4.77	1.00 H	283	24.50	16.73
4	405.17	35.67 QP	46.00	-10.33	1.00 H	226	17.78	17.89
5	620.94	33.73 QP	46.00	-12.27	1.00 H	229	10.94	22.79
6	675.37	32.09 QP	46.00	-13.91	1.00 H	229	8.45	23.64

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	168.02	35.27 QP	43.50	-8.23	1.25 V	205	22.57	12.70
2	368.24	38.20 QP	46.00	-7.80	1.00 V	244	21.47	16.73
3	438.22	32.48 QP	46.00	-13.52	1.25 V	283	13.99	18.49
4	539.30	30.97 QP	46.00	-15.03	1.00 V	346	10.19	20.78
5	675.37	30.31 QP	46.00	-15.69	1.25 V	172	6.67	23.64
6	947.52	34.80 QP	46.00	-11.20	1.00 V	331	5.13	29.67

- 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.

802.11b DSSS MODULATION: DUAL TX

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	1.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26deg. C, 70%RH, 991hPa	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2386.00	58.72 PK	74.00	-15.28	1.40 H	120	27.35	31.37
2	2386.00	51.67 AV	54.00	-2.33	1.40 H	120	20.30	31.37
3	*2412.00	108.12 PK			1.36 H	121	76.66	31.46
4	*2412.00	104.37 AV			1.36 H	121	72.91	31.46
5	4824.00	54.03 PK	74.00	-19.97	1.04 H	147	16.90	37.13
6	4824.00	51.16 AV	54.00	-2.84	1.04 H	147	14.03	37.13
7	7236.00	57.21 PK	88.12	-30.91	1.21 H	153	12.67	44.54
8	7236.00	49.42 AV	84.37	-34.95	1.21 H	153	4.88	44.54

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2386.00	58.86 PK	74.00	-15.14	1.20 V	347	27.49	31.37
2	2386.00	49.58 AV	54.00	-4.42	1.20 V	347	18.21	31.37
3	*2412.00	104.44 PK			1.00 V	346	72.98	31.46
4	*2412.00	100.96 AV			1.00 V	346	69.50	31.46
5	3348.00	47.96 PK	74.00	-26.04	1.03 V	1	14.51	33.45
6	3348.00	43.13 AV	54.00	-10.87	1.03 V	1	9.68	33.45
7	4824.00	55.51 PK	74.00	-18.49	1.07 V	164	18.38	37.13
8	4824.00	52.53 AV	54.00	-1.47	1.07 V	164	15.40	37.13
9	7236.00	57.66 PK	84.44	-26.78	1.00 V	143	13.12	44.54
10	7236.00	50.23 AV	80.96	-30.73	1.00 V	143	5.69	44.54

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	1.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26deg. C, 70%RH, 991hPa	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	109.50 PK			1.10 H	197	77.96	31.54
2	*2437.00	105.77 AV			1.10 H	197	74.23	31.54
3	4874.00	53.15 PK	74.00	-20.85	1.01 H	195	15.86	37.29
4	4874.00	50.30 AV	54.00	-3.70	1.01 H	195	13.01	37.29
5	7311.00	55.82 PK	74.00	-18.18	1.04 H	154	11.04	44.79
6	7311.00	46.88 AV	54.00	-7.12	1.04 H	154	2.10	44.79

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	*2437.00	105.25 PK			1.25 V	194	73.71	31.54
2	*2437.00	101.53 AV			1.25 V	194	69.99	31.54
3	4874.00	55.32 PK	74.00	-18.68	1.00 V	191	18.03	37.29
4	4874.00	52.61 AV	54.00	-1.39	1.00 V	191	15.32	37.29
5	7311.00	55.99 PK	74.00	-18.01	1.19 V	215	11.21	44.79
6	7311.00	47.61 AV	54.00	-6.39	1.19 V	215	2.83	44.79

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	1.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26deg. C, 70%RH, 991hPa	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	110.57 PK			1.03 H	116	78.95	31.62
2	*2462.00	107.22 AV			1.03 H	116	75.60	31.62
3	2483.50	56.82 PK	74.00	-17.18	1.03 H	121	25.12	31.70
4	2483.50	47.14 AV	54.00	-6.86	1.03 H	121	15.44	31.70
5	4924.00	53.66 PK	74.00	-20.34	1.29 H	210	16.22	37.44
6	4924.00	50.34 AV	54.00	-3.66	1.29 H	210	12.90	37.44
7	7386.00	55.87 PK	74.00	-18.13	1.17 H	156	10.97	44.90
8	7386.00	47.17 AV	54.00	-6.83	1.17 H	156	2.27	44.90

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	105.54 PK			1.00 V	242	73.92	31.62
2	*2462.00	102.48 AV			1.00 V	242	70.86	31.62
3	2483.50	53.53 PK	74.00	-20.47	1.22 V	243	21.83	31.70
4	2483.50	45.03 AV	54.00	-8.97	1.22 V	243	13.33	31.70
5	4924.00	55.29 PK	74.00	-18.71	1.47 V	178	17.85	37.44
6	4924.00	52.86 AV	54.00	-1.14	1.47 V	178	15.42	37.44
7	7386.00	56.37 PK	74.00	-17.63	1.09 V	133	11.47	44.90
8	7386.00	49.10 AV	54.00	-4.90	1.09 V	133	4.20	44.90

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

802.11g OFDM MODULATION: DUAL TX

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26deg. C, 70%RH, 991hPa	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	65.80 PK	74.00	-8.20	1.09 H	174	34.41	31.39
2	2390.00	52.59 AV	54.00	-1.41	1.09 H	174	21.20	31.39
3	*2412.00	108.91 PK			1.10 H	174	77.45	31.46
4	*2412.00	99.31 AV			1.10 H	174	67.85	31.46
5	4824.00	50.57 PK	74.00	-23.43	1.06 H	288	13.44	37.13
6	4824.00	38.51 AV	54.00	-15.49	1.06 H	288	1.38	37.13

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	2389.00	63.15 PK	74.00	-10.85	1.21 V	347	31.77	31.38
2	2389.00	50.37 AV	54.00	-3.63	1.21 V	347	18.99	31.38
3	*2412.00	105.61 PK			1.43 V	350	74.15	31.46
4	*2412.00	95.91 AV			1.43 V	350	64.45	31.46
5	4824.00	50.22 PK	74.00	-23.78	1.22 V	136	13.09	37.13
6	4824.00	38.75 AV	54.00	-15.25	1.22 V	136	1.62	37.13

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26deg. C, 70%RH, 991hPa	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2382.00	62.78 PK	74.00	-11.22	1.11 H	201	31.42	31.36
2	2382.00	51.74 AV	54.00	-2.26	1.11 H	201	20.38	31.36
3	2390.00	61.76 PK	74.00	-12.24	1.10 H	199	30.37	31.39
4	2390.00	49.59 AV	54.00	-4.41	1.10 H	199	18.20	31.39
5	*2437.00	111.12 PK			1.06 H	199	79.58	31.54
6	*2437.00	102.14 AV			1.06 H	199	70.60	31.54
7	4874.00	52.77 PK	74.00	-21.23	1.00 H	222	15.48	37.29
8	4874.00	41.09 AV	54.00	-12.91	1.00 H	222	3.80	37.29

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	54.56 PK	74.00	-19.44	1.40 V	140	23.17	31.39
2	2390.00	44.75 AV	54.00	-9.25	1.40 V	140	13.36	31.39
3	*2437.00	107.21 PK			1.40 V	140	75.67	31.54
4	*2437.00	98.25 AV			1.40 V	140	66.71	31.54
5	4874.00	54.83 PK	74.00	-19.17	2.41 V	197	17.54	37.29
6	4874.00	43.41 AV	54.00	-10.59	2.41 V	197	6.12	37.29

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26deg. C, 70%RH, 991hPa	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2360.00	57.77 PK	74.00	-16.23	1.13 H	198	26.49	31.28
2	2360.00	48.56 AV	54.00	-5.44	1.13 H	198	17.28	31.28
3	*2462.00	108.68 PK			1.08 H	201	77.06	31.62
4	*2462.00	99.52 AV			1.08 H	201	67.90	31.62
5	2483.50	67.46 PK	74.00	-6.54	1.06 H	200	35.76	31.70
6	2483.50	52.45 AV	54.00	-1.55	1.06 H	200	20.75	31.70
7	4924.00	48.74 PK	74.00	-25.26	1.11 H	198	11.30	37.44
8	4924.00	36.55 AV	54.00	-17.45	1.11 H	198	-0.89	37.44

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	105.64 PK			1.10 V	69	74.02	31.62
2	*2462.00	95.91 AV			1.10 V	69	64.29	31.62
3	2483.50	66.02 PK	74.00	-7.98	1.11 V	70	34.32	31.70
4	2483.50	48.84 AV	54.00	-5.16	1.11 V	70	17.14	31.70
5	4924.00	50.06 PK	74.00	-23.94	1.00 V	199	12.62	37.44
6	4924.00	38.76 AV	54.00	-15.24	1.00 V	199	1.32	37.44

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

DRAFT 802.11n (20MHz) OFDM MODULATION: DUAL TX:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	7.2Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26deg. C, 70%RH, 991hPa	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2360.00	58.19 PK	74.00	-15.81	1.12 H	0	26.91	31.28
2	2360.00	48.06 AV	54.00	-5.94	1.12 H	0	16.78	31.28
3	2390.00	66.00 PK	74.00	-8.00	1.64 H	38	34.61	31.39
4	2390.00	52.75 AV	54.00	-1.25	1.64 H	38	21.36	31.39
5	*2412.00	108.63 PK			1.61 H	37	77.17	31.46
6	*2412.00	98.83 AV			1.61 H	37	67.37	31.46
7	4824.00	46.00 PK	74.00	-28.00	1.00 H	0	8.87	37.13
8	4824.00	33.63 AV	54.00	-20.37	1.00 H	0	-3.50	37.13

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	63.32 PK	74.00	-10.68	1.15 V	274	31.93	31.39
2	2390.00	50.30 AV	54.00	-3.70	1.15 V	274	18.91	31.39
3	*2412.00	105.27 PK			1.45 V	274	73.81	31.46
4	*2412.00	96.05 AV			1.45 V	274	64.59	31.46
5	4824.00	46.71 PK	74.00	-27.29	1.20 V	1	9.58	37.13
6	4824.00	33.49 AV	54.00	-20.51	1.20 V	1	-3.64	37.13

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	7.2Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26deg. C, 70%RH, 991hPa	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	59.68 PK	74.00	-14.32	1.15 H	42	28.29	31.39
2	2390.00	47.91 AV	54.00	-6.09	1.15 H	42	16.52	31.39
3	*2437.00	111.52 PK			1.57 H	35	79.98	31.54
4	*2437.00	101.77 AV			1.57 H	35	70.23	31.54
5	2483.50	66.21 PK	74.00	-7.79	1.07 H	37	34.51	31.70
6	2483.50	49.62 AV	54.00	-4.38	1.07 H	37	17.92	31.70
7	4874.00	47.58 PK	74.00	-26.42	1.20 H	21	10.29	37.29
8	4874.00	33.88 AV	54.00	-20.12	1.20 H	21	-3.41	37.29

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	*2437.00	108.64 PK			1.20 V	280	77.10	31.54
2	*2437.00	99.17 AV			1.20 V	280	67.63	31.54
3	2483.50	56.96 PK	74.00	-17.04	1.20 V	280	25.26	31.70
4	2483.50	46.30 AV	54.00	-7.70	1.20 V	280	14.60	31.70
5	4874.00	48.30 PK	74.00	-25.70	1.23 V	100	11.01	37.29
6	4874.00	34.88 AV	54.00	-19.12	1.23 V	100	-2.41	37.29

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	7.2Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26deg. C, 70%RH, 991hPa	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	109.52 PK			1.33 H	35	77.90	31.62
2	*2462.00	98.91 AV			1.33 H	35	67.29	31.62
3	2483.50	67.40 PK	74.00	-6.60	1.06 H	37	35.70	31.70
4	2483.50	52.17 AV	54.00	-1.83	1.06 H	37	20.47	31.70
5	4924.00	47.08 PK	74.00	-26.92	1.24 H	360	9.64	37.44
6	4924.00	34.03 AV	54.00	-19.97	1.24 H	360	-3.41	37.44

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	105.19 PK			1.18 V	24	73.57	31.62
2	*2462.00	96.22 AV			1.18 V	24	64.60	31.62
3	2483.50	61.68 PK	74.00	-12.32	1.14 V	27	29.98	31.70
4	2483.50	49.33 AV	54.00	-4.67	1.14 V	27	17.63	31.70
5	4924.00	47.08 PK	74.00	-26.92	1.20 V	0	9.64	37.44
6	4924.00	33.68 AV	54.00	-20.32	1.20 V	0	-3.76	37.44

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

DRAFT 802.11n (40MHz) OFDM MODULATION: DUAL TX:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	15.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26deg. C, 70%RH, 991hPa	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2382.00	62.77 PK	74.00	-11.23	1.34 H	204	31.41	31.36
2	2382.00	52.41 AV	54.00	-1.59	1.34 H	204	21.05	31.36
3	2390.00	61.66 PK	74.00	-12.34	1.36 H	204	30.27	31.39
4	2390.00	51.77 AV	54.00	-2.23	1.36 H	204	20.38	31.39
5	*2422.00	101.57 PK			1.08 H	204	70.08	31.49
6	*2422.00	91.68 AV			1.08 H	204	60.19	31.49
7	4844.00	45.28 PK	74.00	-28.72	1.04 H	0	8.09	37.19
8	4844.00	32.97 AV	54.00	-21.03	1.04 H	0	-4.22	37.19

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	2382.00	58.64 PK	74.00	-15.36	1.19 V	346	27.28	31.36
2	2382.00	48.17 AV	54.00	-5.83	1.19 V	346	16.81	31.36
3	*2422.00	98.18 PK			1.40 V	360	66.69	31.49
4	*2422.00	87.97 AV			1.40 V	360	56.48	31.49
5	4844.00	46.00 PK	74.00	-28.00	1.00 V	0	8.81	37.19
6	4844.00	33.27 AV	54.00	-20.73	1.00 V	0	-3.92	37.19

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	15.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26deg. C, 70%RH, 991hPa	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2360.00	63.58 PK	74.00	-10.42	1.14 H	198	32.30	31.28
2	2360.00	49.67 AV	54.00	-4.33	1.14 H	198	18.39	31.28
3	2390.00	64.73 PK	74.00	-9.27	1.35 H	168	33.34	31.39
4	2390.00	52.54 AV	54.00	-1.46	1.35 H	168	21.15	31.39
5	*2437.00	104.41 PK			1.07 H	167	72.87	31.54
6	*2437.00	94.26 AV			1.07 H	167	62.72	31.54
7	2483.50	65.77 PK	74.00	-8.23	1.34 H	189	34.07	31.70
8	2483.50	51.87 AV	54.00	-2.13	1.34 H	189	20.17	31.70
9	4874.00	45.59 PK	74.00	-28.41	1.34 H	183	8.30	37.29
10	4874.00	34.66 AV	54.00	-19.34	1.34 H	183	-2.63	37.29

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	60.08 PK	74.00	-13.92	1.20 V	348	28.69	31.39
2	2390.00	49.15 AV	54.00	-4.85	1.20 V	348	17.76	31.39
3	*2437.00	100.46 PK			1.43 V	349	68.92	31.54
4	*2437.00	90.18 AV			1.43 V	349	58.64	31.54
5	4874.00	46.08 PK	74.00	-27.92	1.20 V	52	8.79	37.29
6	4874.00	34.79 AV	54.00	-19.21	1.20 V	52	-2.50	37.29

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	15.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26deg. C, 70%RH, 991hPa	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	102.48 PK			1.08 H	39	70.89	31.59
2	*2452.00	91.48 AV			1.08 H	39	59.89	31.59
3	2483.50	59.19 PK	74.00	-14.81	1.30 H	36	27.49	31.70
4	2483.50	49.51 AV	54.00	-4.49	1.30 H	36	17.81	31.70
5	2492.00	62.36 PK	74.00	-11.64	1.08 H	36	30.64	31.72
6	2492.00	52.46 AV	54.00	-1.54	1.08 H	36	20.74	31.72
7	4904.00	46.34 PK	74.00	-27.66	1.24 H	309	8.96	37.38
8	4904.00	34.22 AV	54.00	-19.78	1.24 H	309	-3.16	37.38

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	*2452.00	98.45 PK			1.18 V	24	66.86	31.59
2	*2452.00	88.25 AV			1.18 V	24	56.66	31.59
3	2492.00	58.51 PK	74.00	-15.49	1.15 V	25	26.79	31.72
4	2492.00	50.08 AV	54.00	-3.92	1.15 V	25	18.36	31.72
5	4904.00	46.59 PK	74.00	-27.41	1.03 V	0	9.21	37.38
6	4904.00	33.99 AV	54.00	-20.01	1.03 V	0	-3.39	37.38

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

802.11b (CB mode) DSSS MODULATION: DUAL TX:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	1.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26deg. C, 70%RH, 991hPa	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2389.00	59.38 PK	74.00	-14.62	1.08 H	174	28.00	31.38
2	2389.00	52.93 AV	54.00	-1.07	1.08 H	174	21.55	31.38
3	*2432.00	108.13 PK			1.30 H	169	76.60	31.53
4	*2432.00	104.65 AV			1.30 H	169	73.12	31.53
5	4864.00	51.43 PK	74.00	-22.57	1.07 H	117	14.18	37.25
6	4864.00	47.37 AV	54.00	-6.63	1.07 H	117	10.12	37.25

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	2389.00	57.38 PK	74.00	-16.62	1.11 V	234	26.00	31.38
2	2389.00	48.37 AV	54.00	-5.63	1.11 V	234	16.99	31.38
3	*2432.00	104.53 PK			1.14 V	234	73.00	31.53
4	*2432.00	100.91 AV			1.14 V	234	69.38	31.53
5	4864.00	55.16 PK	74.00	-18.84	1.07 V	159	17.91	37.25
6	4864.00	52.49 AV	54.00	-1.51	1.07 V	159	15.24	37.25
7	7296.00	55.57 PK	74.00	-18.43	1.18 V	183	10.81	44.76
8	7296.00	47.67 AV	54.00	-6.33	1.18 V	183	2.91	44.76

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	1.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26deg. C, 70%RH, 991hPa	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2447.00	107.21 PK			1.50 H	169	75.63	31.58
2	*2447.00	103.54 AV			1.50 H	169	71.96	31.58
3	4894.00	52.81 PK	74.00	-21.19	1.16 H	207	15.46	37.35
4	4894.00	49.54 AV	54.00	-4.46	1.16 H	207	12.19	37.35

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	*2447.00	103.91 PK			1.10 V	94	72.33	31.58
2	*2447.00	100.20 AV			1.10 V	94	68.62	31.58
3	4893.00	55.46 PK	74.00	-18.54	1.00 V	189	18.12	37.35
4	4893.00	52.85 AV	54.00	-1.15	1.00 V	189	15.51	37.35
5	7341.00	54.92 PK	74.00	-19.08	1.11 V	202	10.09	44.83
6	7341.00	47.11 AV	54.00	-6.89	1.11 V	202	2.28	44.83

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	1.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	26deg. C, 70%RH, 991hPa	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2442.00	107.38 PK			1.10 H	337	75.82	31.56
2	*2442.00	103.24 AV			1.10 H	337	71.68	31.56
3	2483.50	57.78 PK	74.00	-16.22	1.09 H	197	26.08	31.70
4	2483.50	52.18 AV	54.00	-1.82	1.09 H	197	20.48	31.70
5	4884.00	54.20 PK	74.00	-19.80	1.25 H	196	16.88	37.32
6	4884.00	51.07 AV	54.00	-2.93	1.25 H	196	13.75	37.32

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	*2442.00	104.12 PK			1.08 V	92	72.56	31.56
2	*2442.00	100.61 AV			1.08 V	92	69.05	31.56
3	2483.50	57.17 PK	74.00	-16.83	1.07 V	107	25.47	31.70
4	2483.50	48.43 AV	54.00	-5.57	1.07 V	107	16.73	31.70
5	4884.00	55.90 PK	74.00	-18.10	1.00 V	191	18.58	37.32
6	4884.00	52.86 AV	54.00	-1.14	1.00 V	191	15.54	37.32
7	7326.00	55.63 PK	74.00	-18.37	1.32 V	171	10.82	44.81
8	7326.00	44.77 AV	54.00	-9.23	1.32 V	171	-0.04	44.81

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

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	FSEK 30	100049	Aug. 14, 2006

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

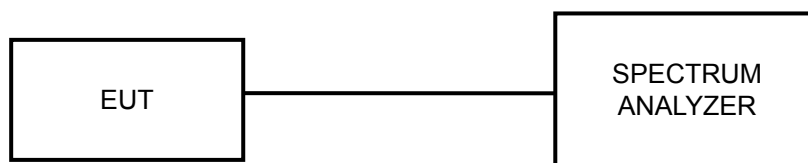
4.3.3 TEST PROCEDURE

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.

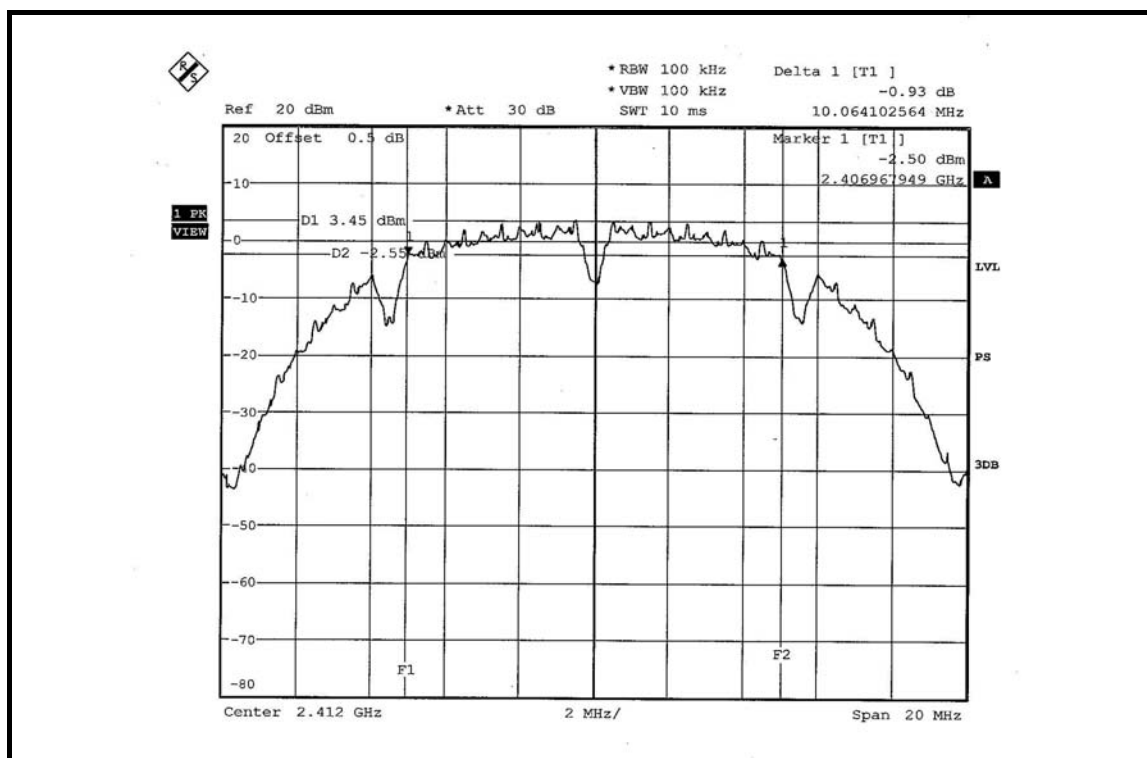
4.3.7 TEST RESULTS

802.11b DSSS MODULATION: DUAL TX

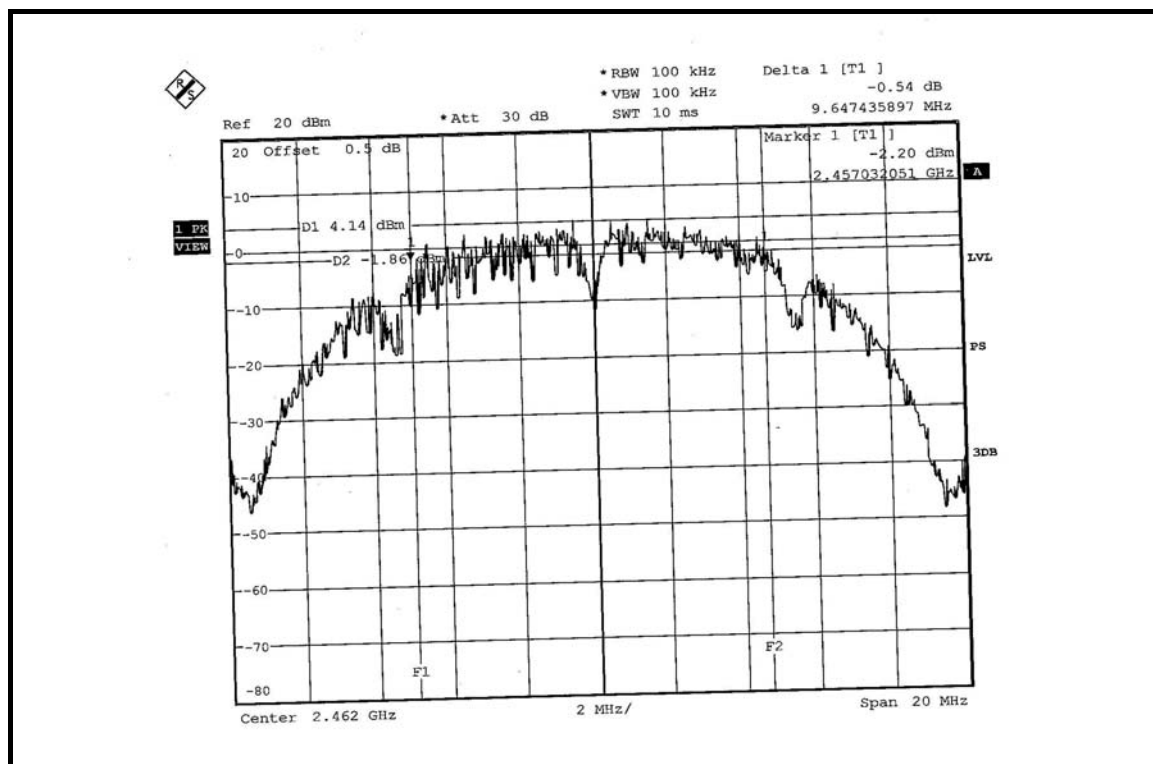
MODULATION TYPE	DBPSK	TRANSFER RATE	1.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg.C, 70%RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	10.06	10.00	0.5	PASS
6	2437	10.06	10.03	0.5	PASS
11	2462	10.09	9.64	0.5	PASS

FOR CHAIN 0: CH 1



CH 11

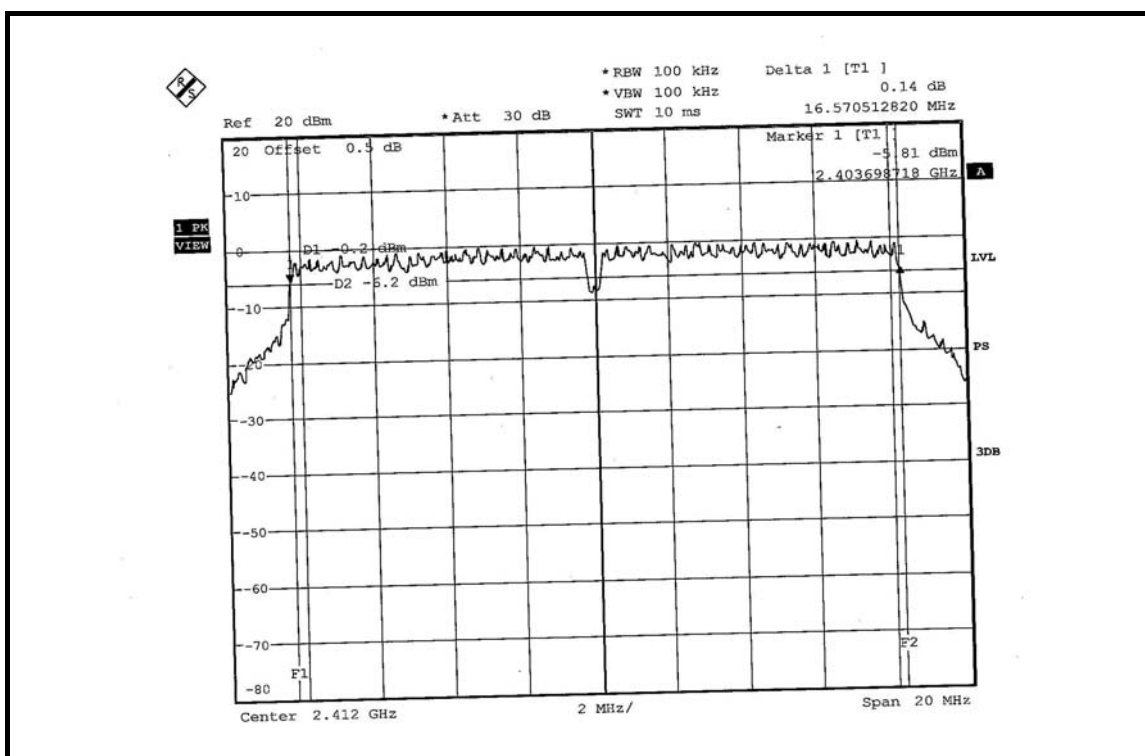


802.11g OFDM MODULATION: DUAL TX

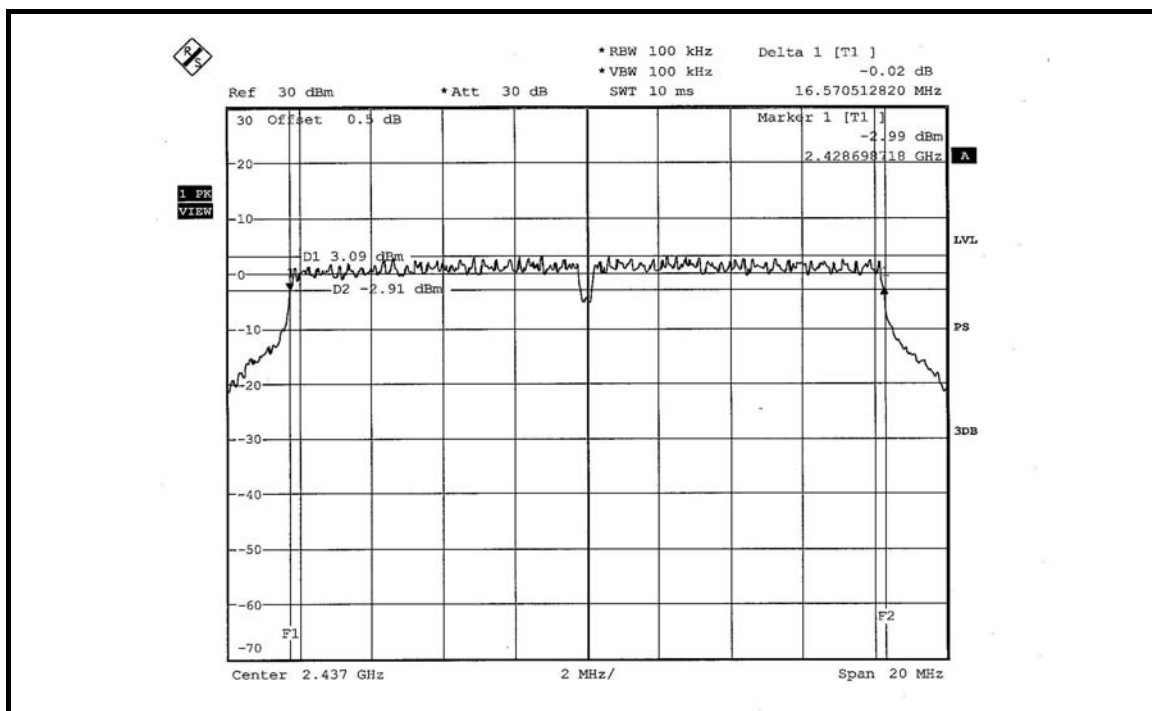
MODULATION TYPE	BPSK	TRANSFER RATE	6.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg.C, 70%RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	16.57	16.57	0.5	PASS
6	2437	16.57	16.53	0.5	PASS
11	2462	16.57	16.50	0.5	PASS

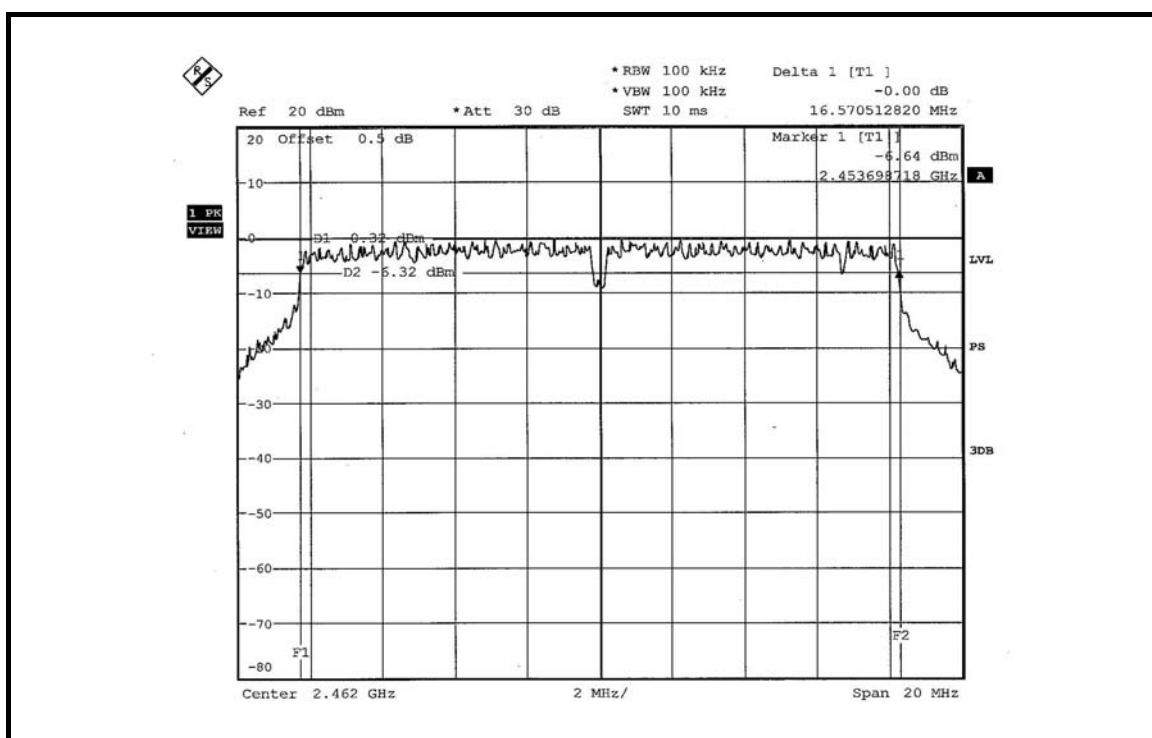
FOR CHAIN 0: CH 1



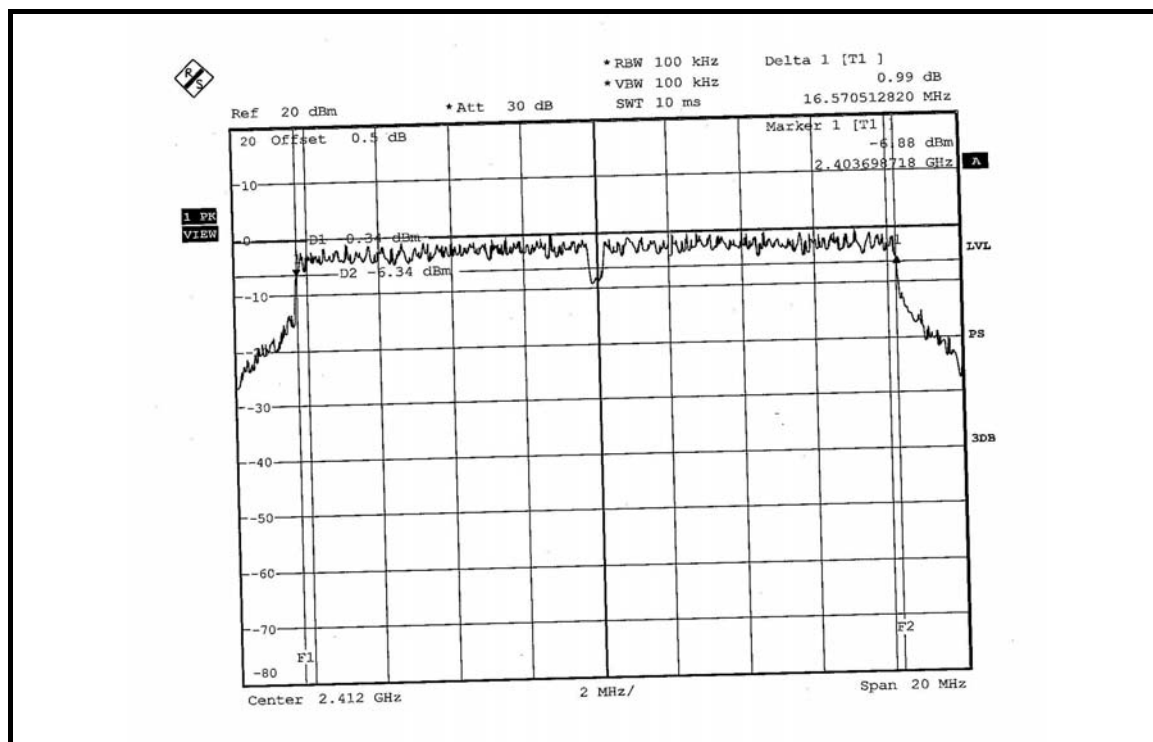
CH 6



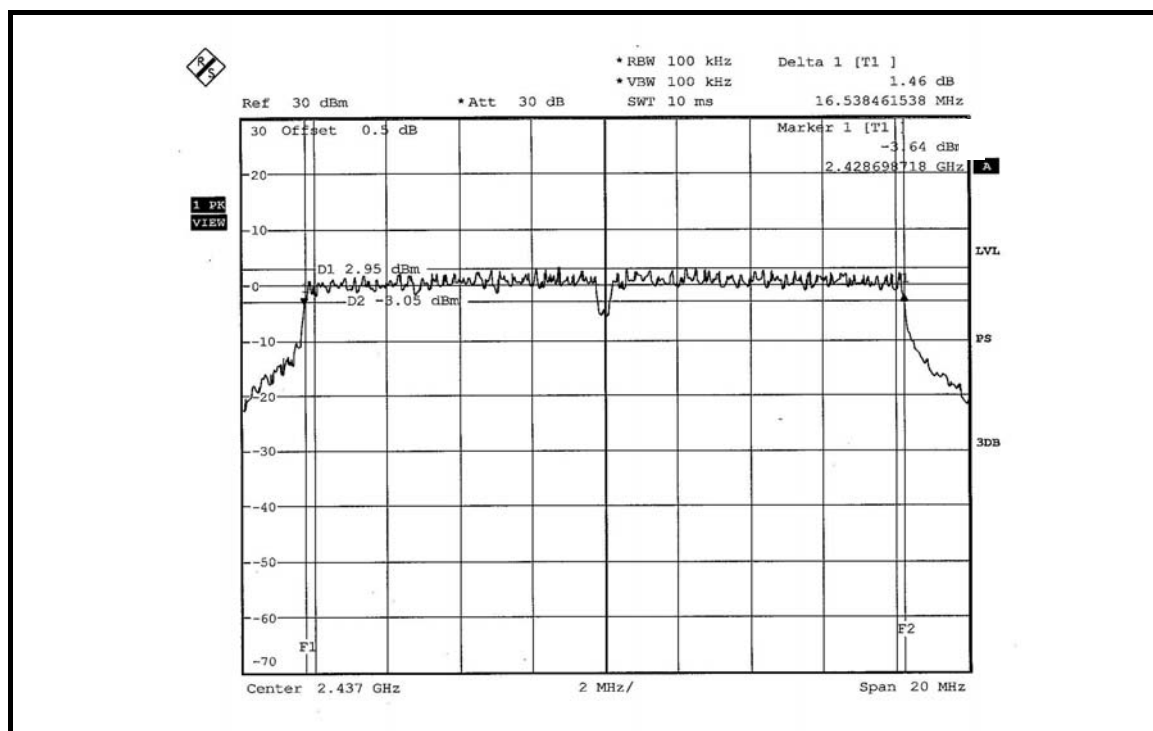
CH 11



FOR CHAIN 1: CH 1



CH 6

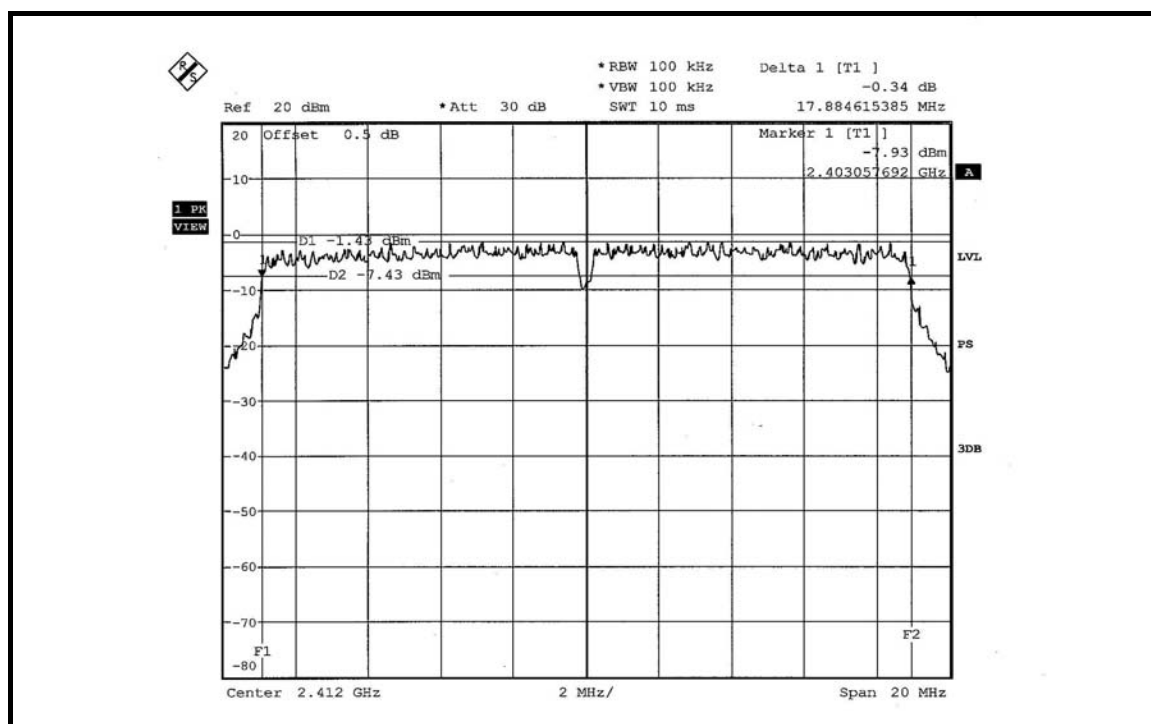


DRAFT 802.11n (20MHz) OFDM MODULATION: DUAL TX:

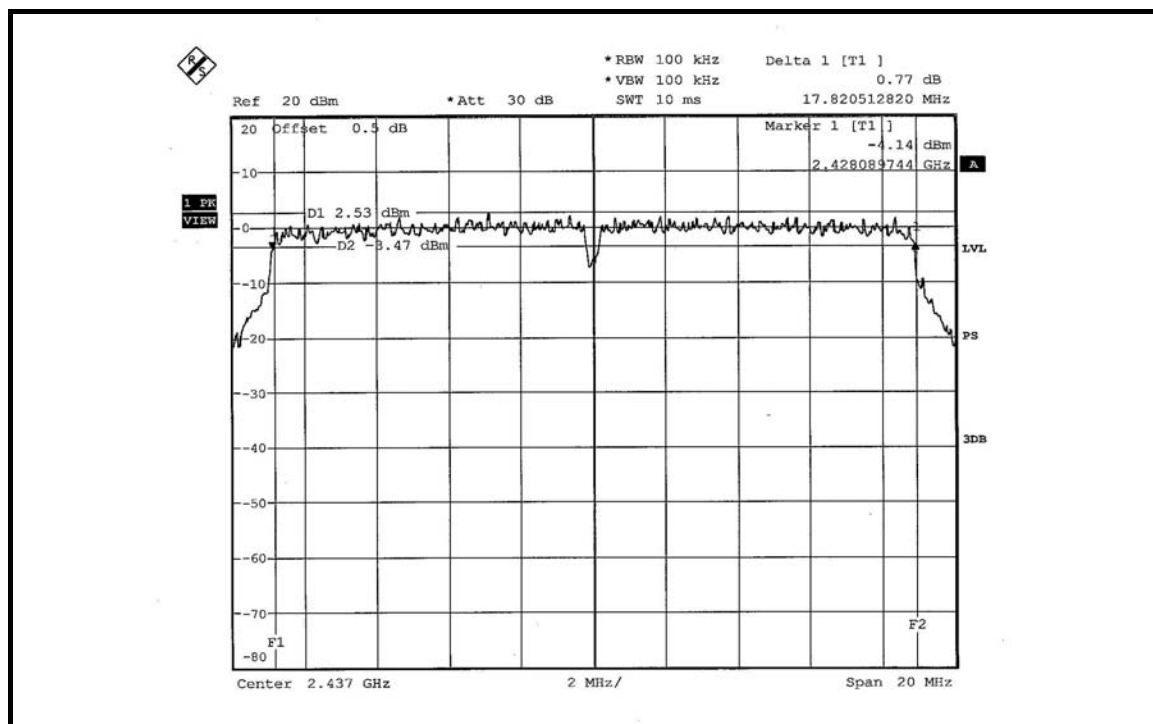
MODULATION TYPE	BPSK	TRANSFER RATE	7.2Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg.C, 70%RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	17.88	17.85	0.5	PASS
6	2437	17.82	17.82	0.5	PASS
11	2462	17.78	17.75	0.5	PASS

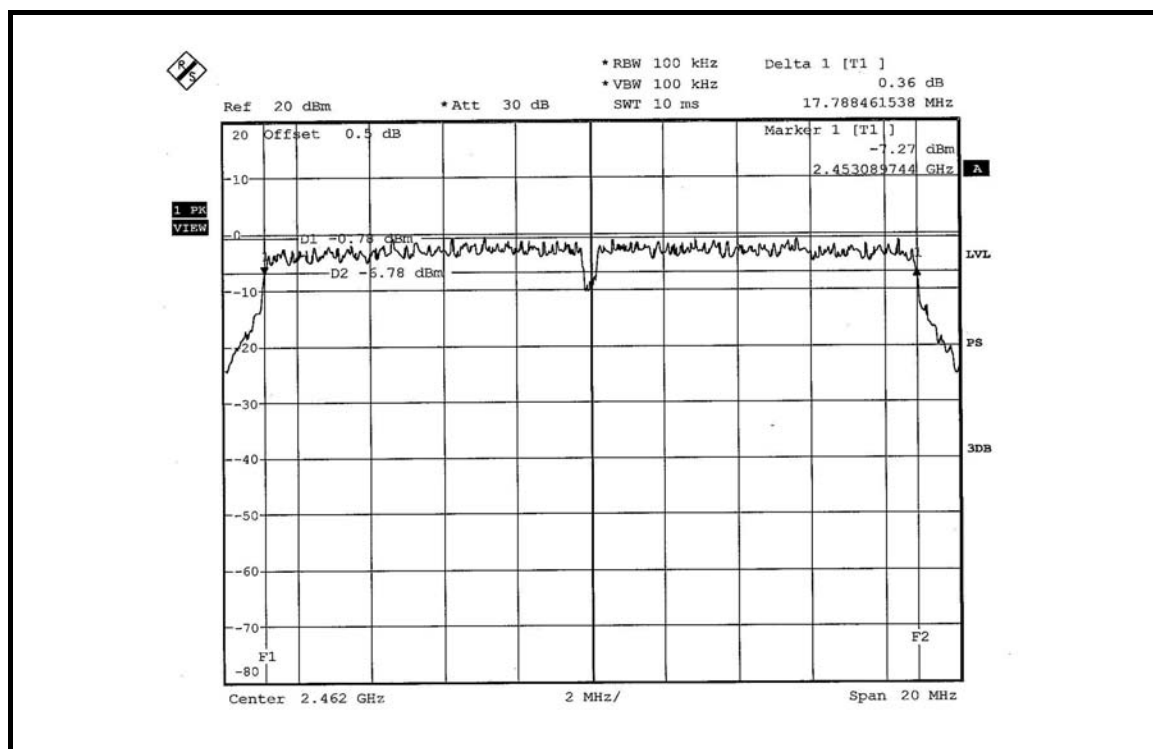
FOR CHAIN 0: CH 1



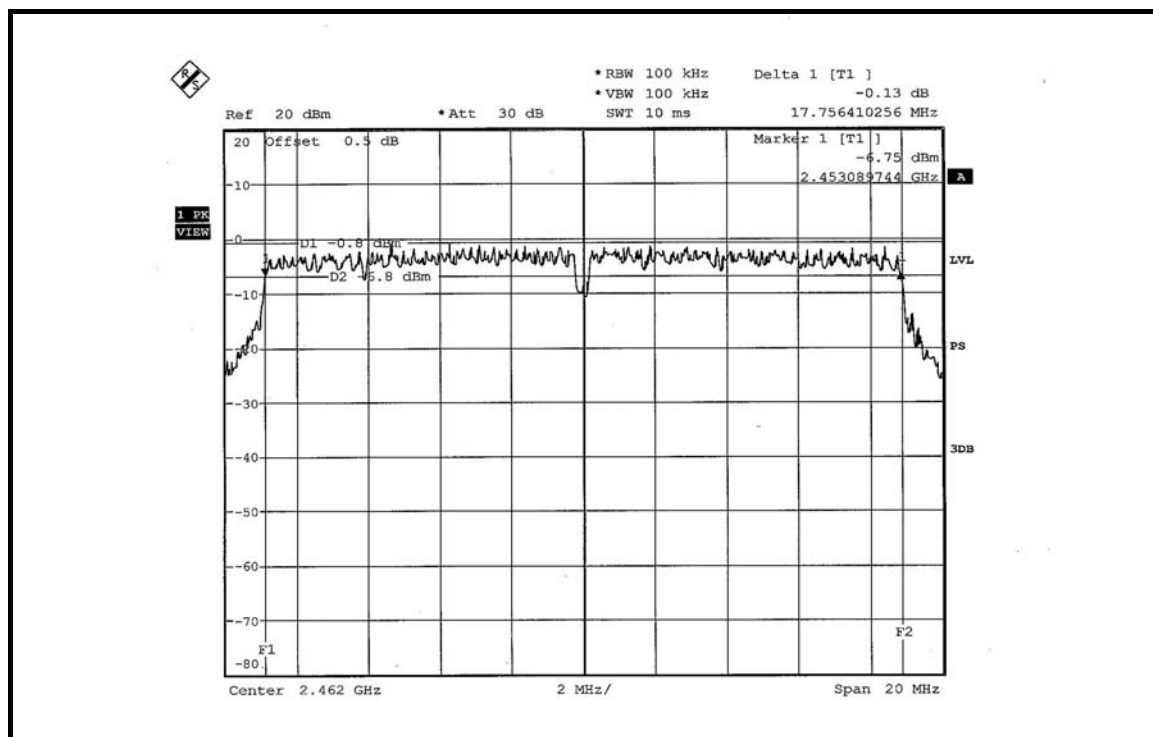
CH 6



CH 11



CH 11

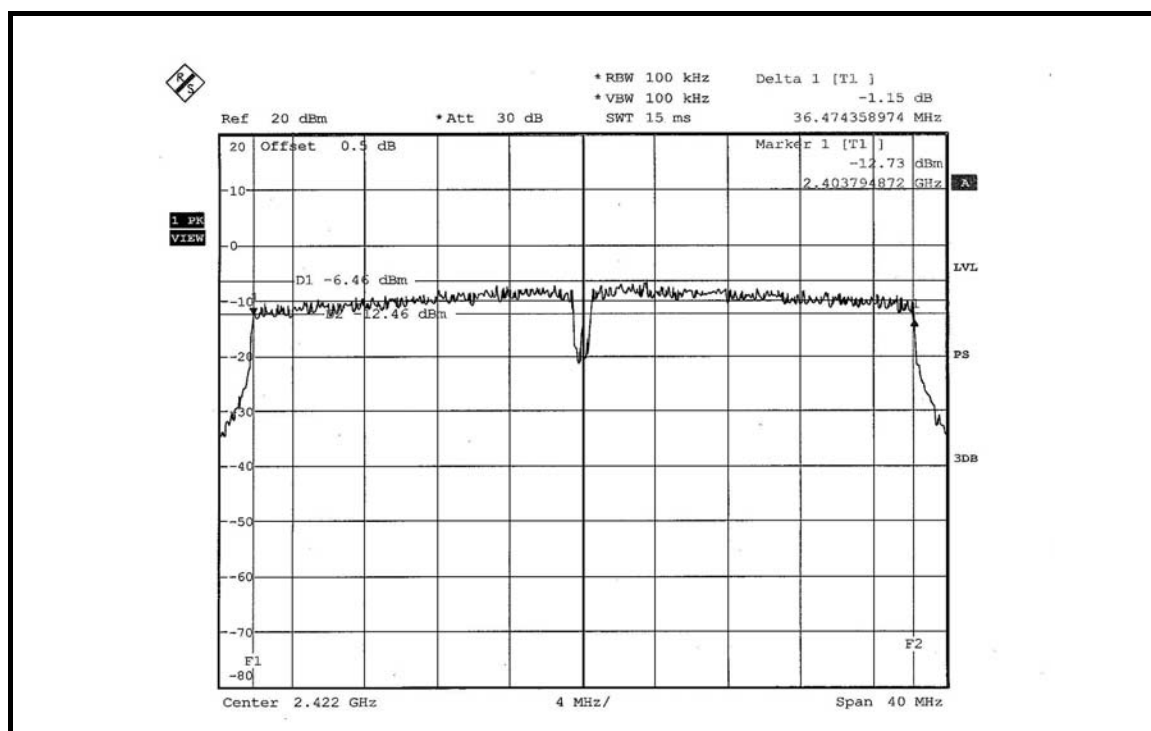


DRAFT 802.11n (40MHz) OFDM MODULATION: DUAL TX:

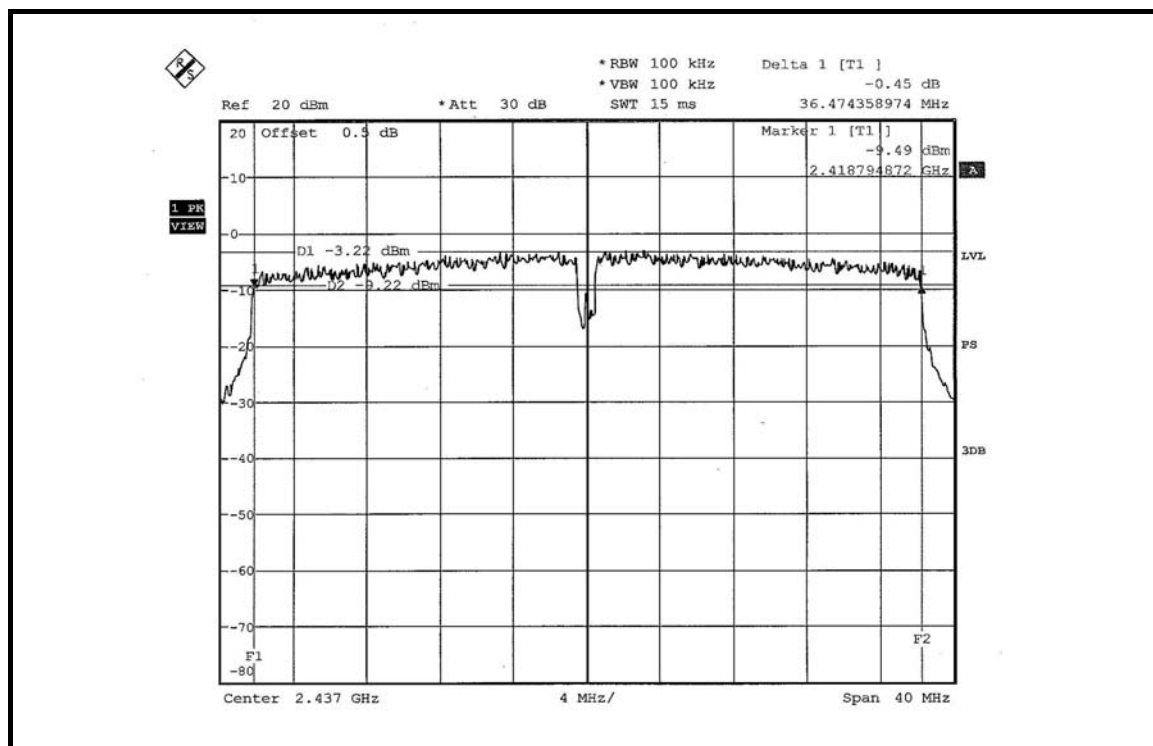
MODULATION TYPE	BPSK	TRANSFER RATE	15.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg.C, 70%RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2422	36.47	36.28	0.5	PASS
4	2437	36.47	36.47	0.5	PASS
7	2452	36.53	36.41	0.5	PASS

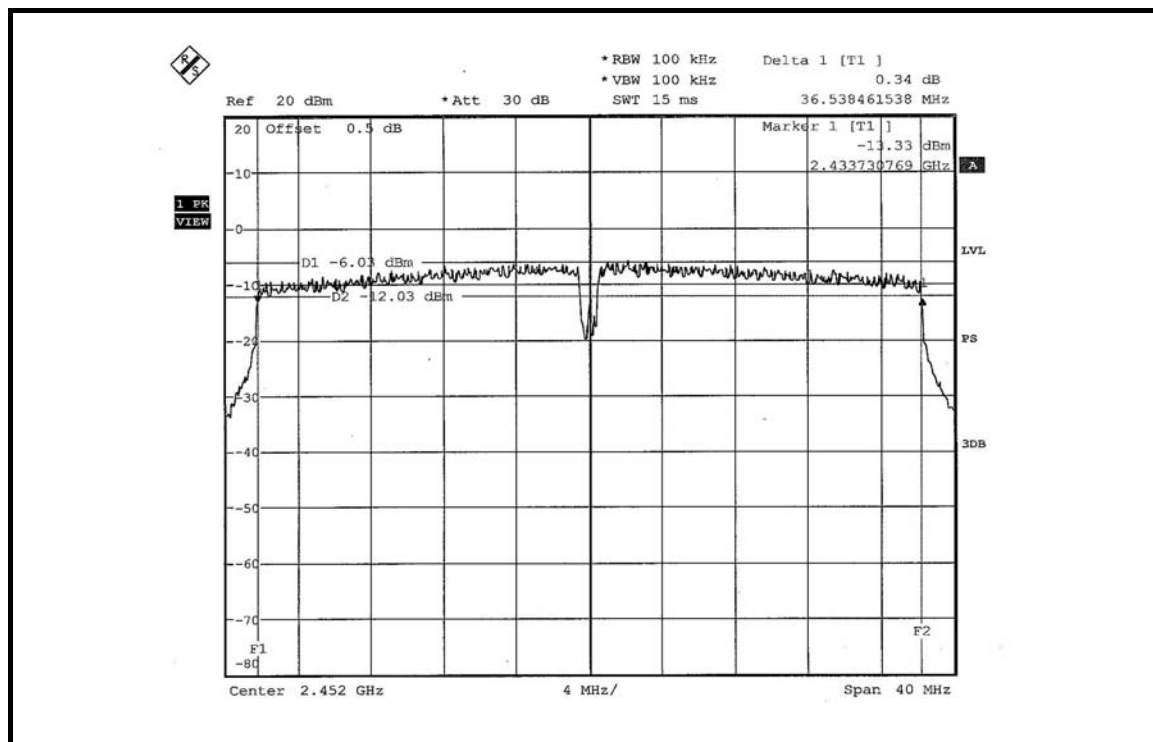
FOR CHAIN 0: CH 1



CH 4



CH 7

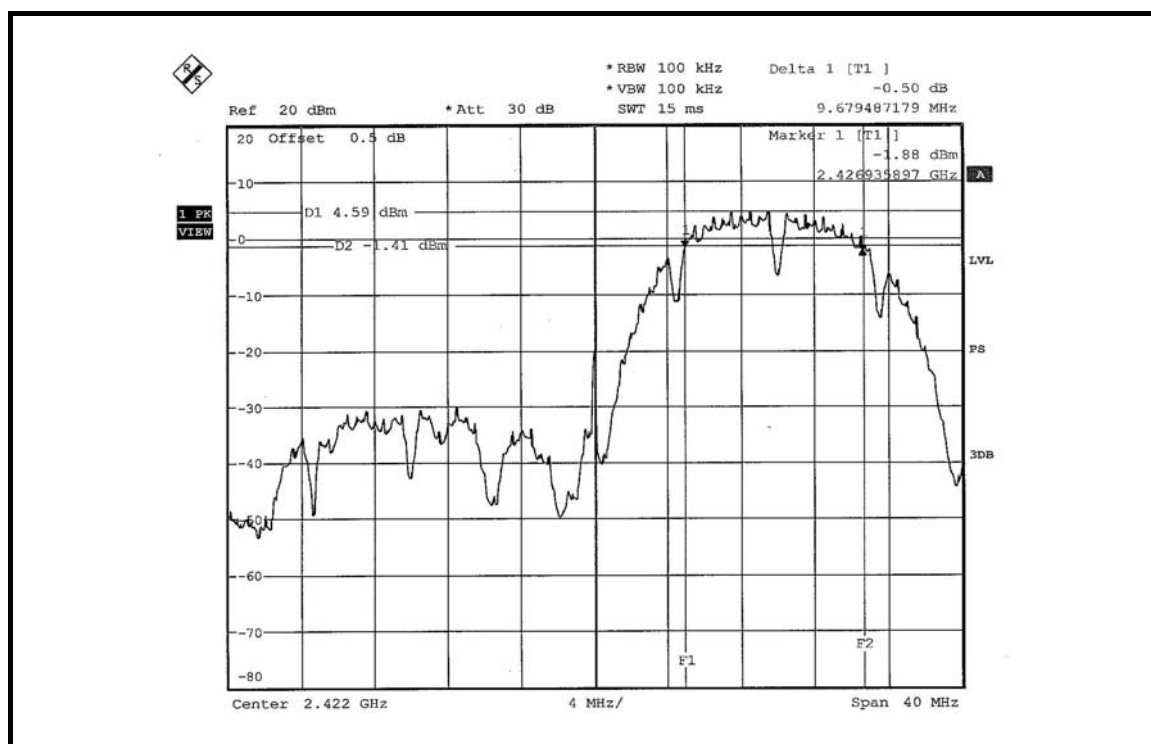


802.11b (CB mode) DSSS MODULATION: DUAL TX:

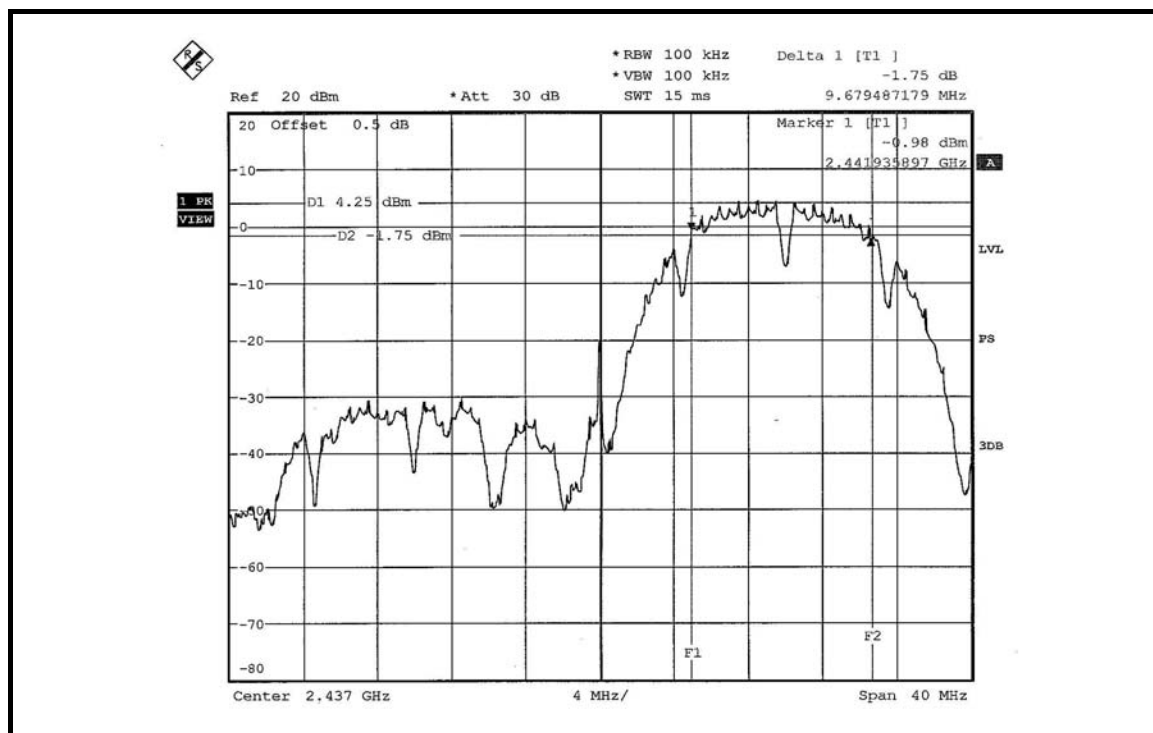
MODULATION TYPE	DBPSK	TRANSFER RATE	1.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg.C, 70%RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2422	9.67	9.93	0.5	PASS
4	2437	9.67	9.67	0.5	PASS
7	2452	9.80	9.74	0.5	PASS

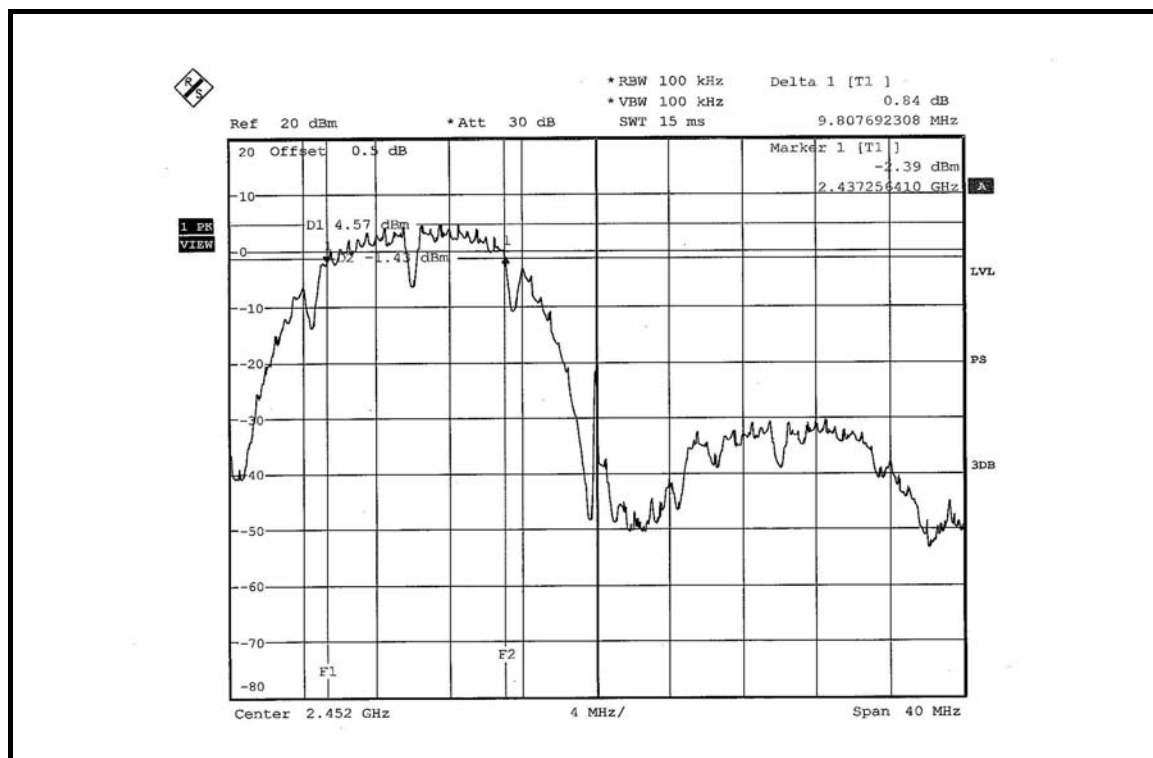
FOR CHAIN 0: CH 1



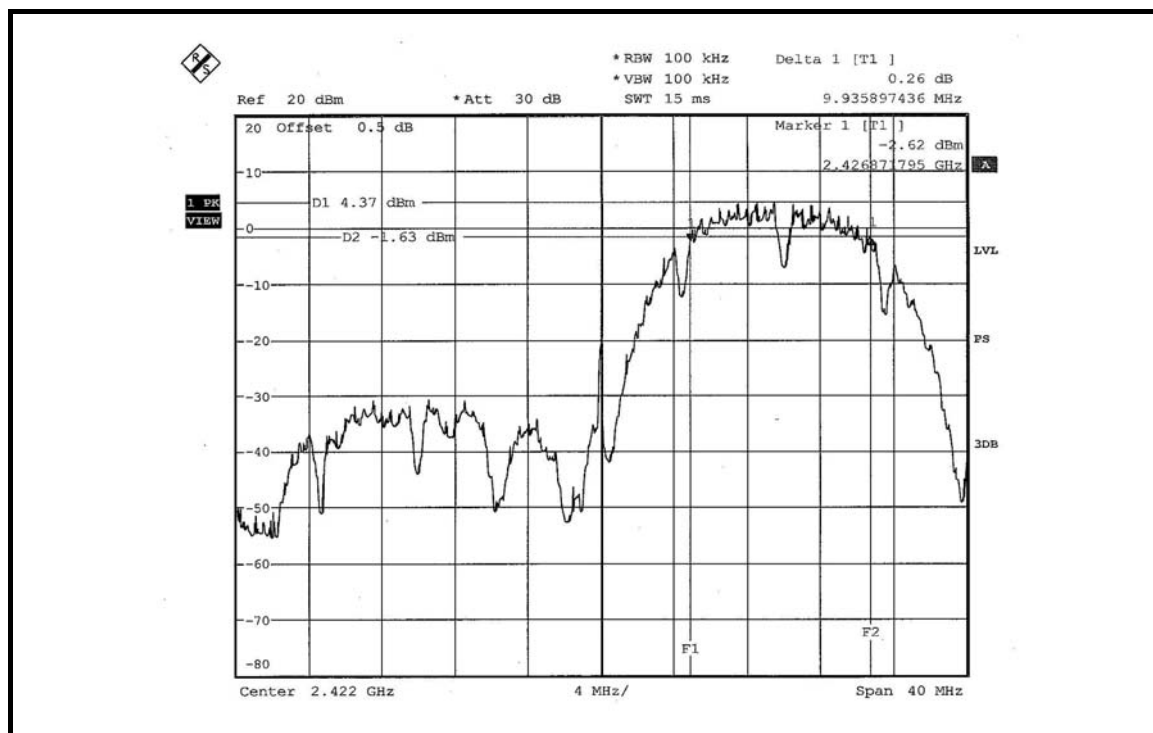
CH 4



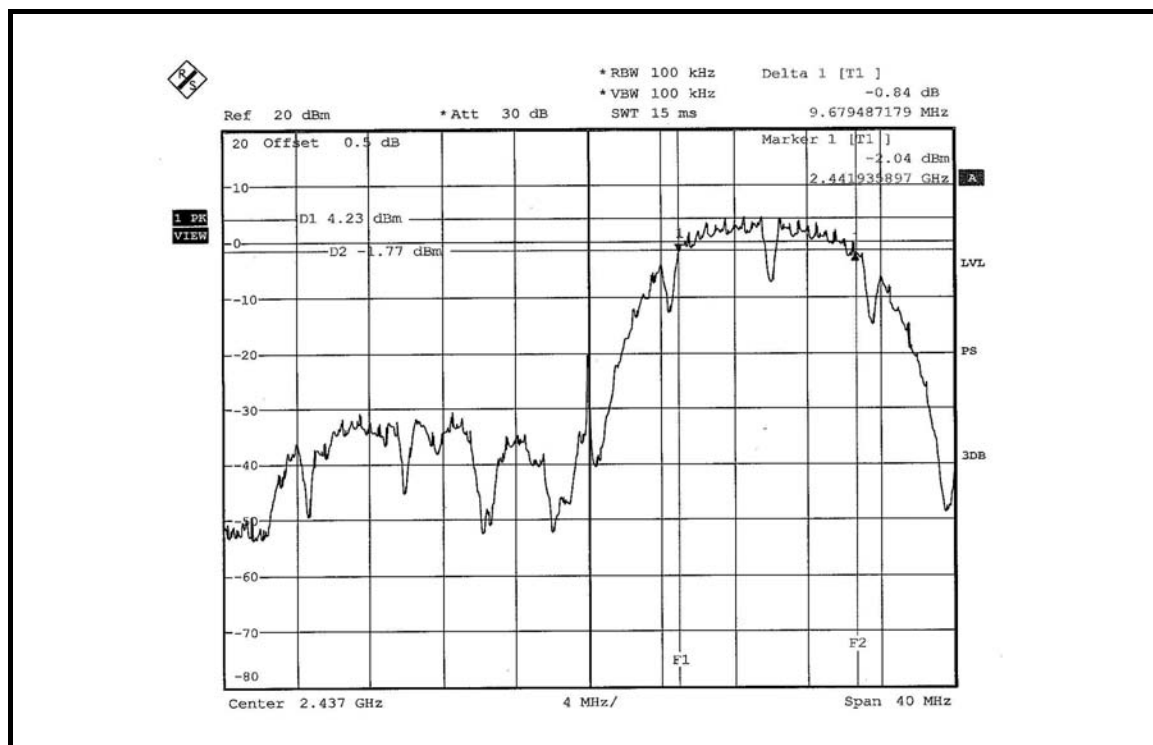
CH 7



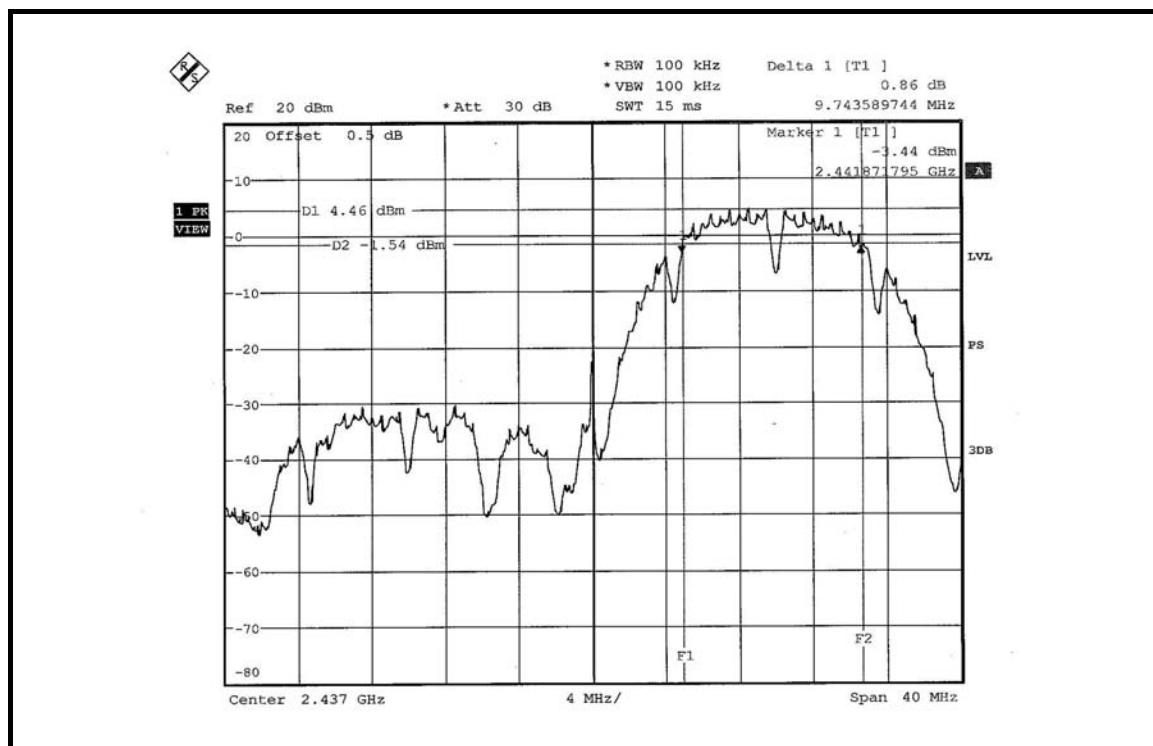
FOR CHAIN 1: CH 1



CH 4



CH 7



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	FSEK30	100049	Aug. 14, 2006
AGILENT SIGNAL GENERATOR	E8257C	MY43320668	Dec. 07, 2006
DIGITAL RT OSCILLOSCOPE	TDS1012	C037299	Nov. 28, 2006
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.

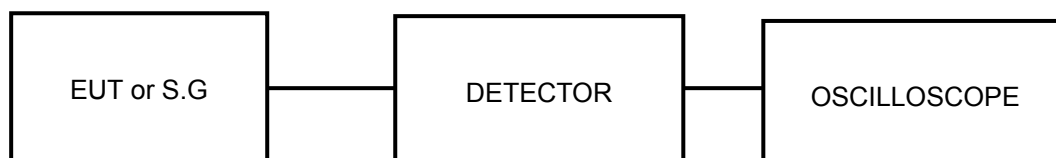
4.4.3 TEST PROCEDURES

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.

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6

4.4.7 TEST RESULTS

802.11b DSSS MODULATION: DUAL TX

MODULATION TYPE	DBPSK	TRANSFER RATE	1.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg.C, 70%RH, 991hPa
TESTED BY	Match Tsui		

CHAN.	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)		PEAK POWER OUTPUT (dBm)		TOTAL PEAK POWER (mW)	TOTAL PEAK POWER (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1				
1	2412	45.186	44.771	16.55	16.51	89.957	19.54	30	PASS
6	2437	51.050	50.466	17.08	17.03	101.516	20.07	30	PASS
11	2462	57.412	56.754	17.59	17.54	114.166	20.58	30	PASS

802.11g OFDM MODULATION: DUAL TX

MODULATION TYPE	BPSK	TRANSFER RATE	6.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg.C, 70%RH, 991hPa
TESTED BY	Match Tsui		

CHAN.	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)		PEAK POWER OUTPUT (dBm)		TOTAL PEAK POWER (mW)	TOTAL PEAK POWER (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1				
1	2412	57.280	56.494	17.58	17.52	113.774	20.56	30	PASS
6	2437	114.288	113.240	20.58	20.54	227.528	23.57	30	PASS
11	2462	56.885	56.494	17.55	17.52	113.379	20.55	30	PASS

DRAFT 802.11n (20MHz) OFDM MODULATION: DUAL TX:

MODULATION TYPE	BPSK	TRANSFER RATE	7.2Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg.C, 70%RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)		PEAK POWER OUTPUT (dBm)		TOTAL PEAK POWER (mW)	TOTAL PEAK POWER (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1				
1	2412	57.148	56.885	17.57	17.55	114.033	20.57	30	PASS
6	2437	114.025	112.980	20.57	20.53	227.005	23.56	30	PASS
11	2462	56.885	56.624	17.55	17.53	113.509	20.55	30	PASS

DRAFT 802.11n (40MHz) OFDM MODULATION: DUAL TX:

MODULATION TYPE	BPSK	TRANSFER RATE	15.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg.C, 70%RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)		PEAK POWER OUTPUT (dBm)		TOTAL PEAK POWER (mW)	TOTAL PEAK POWER (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1				
1	2422	25.410	25.177	14.05	14.01	50.587	17.04	30	PASS
4	2437	51.050	50.350	17.08	17.02	101.400	20.06	30	PASS
7	2452	25.527	25.410	14.07	14.05	50.937	17.07	30	PASS

802.11b (CB mode) DSSS MODULATION: DUAL TX:

MODULATION TYPE	BPSK	TRANSFER RATE	15.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg.C, 70%RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)		PEAK POWER OUTPUT (dBm)		TOTAL PEAK POWER (mW)	TOTAL PEAK POWER (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1				
1	2422	57.148	56.754	17.57	17.54	113.902	20.57	30	PASS
4	2437	48.641	48.306	16.87	16.84	96.947	19.87	30	PASS
7	2452	51.050	50.350	17.08	17.02	101.401	20.06	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	FSEK30	100049	Aug. 14, 2006

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

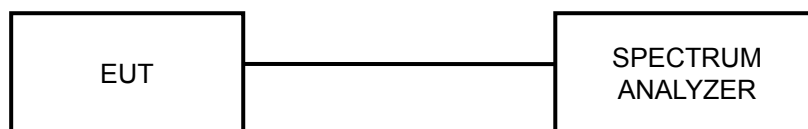
The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time = span/3kHz. The power spectral density was measured and recorded.

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

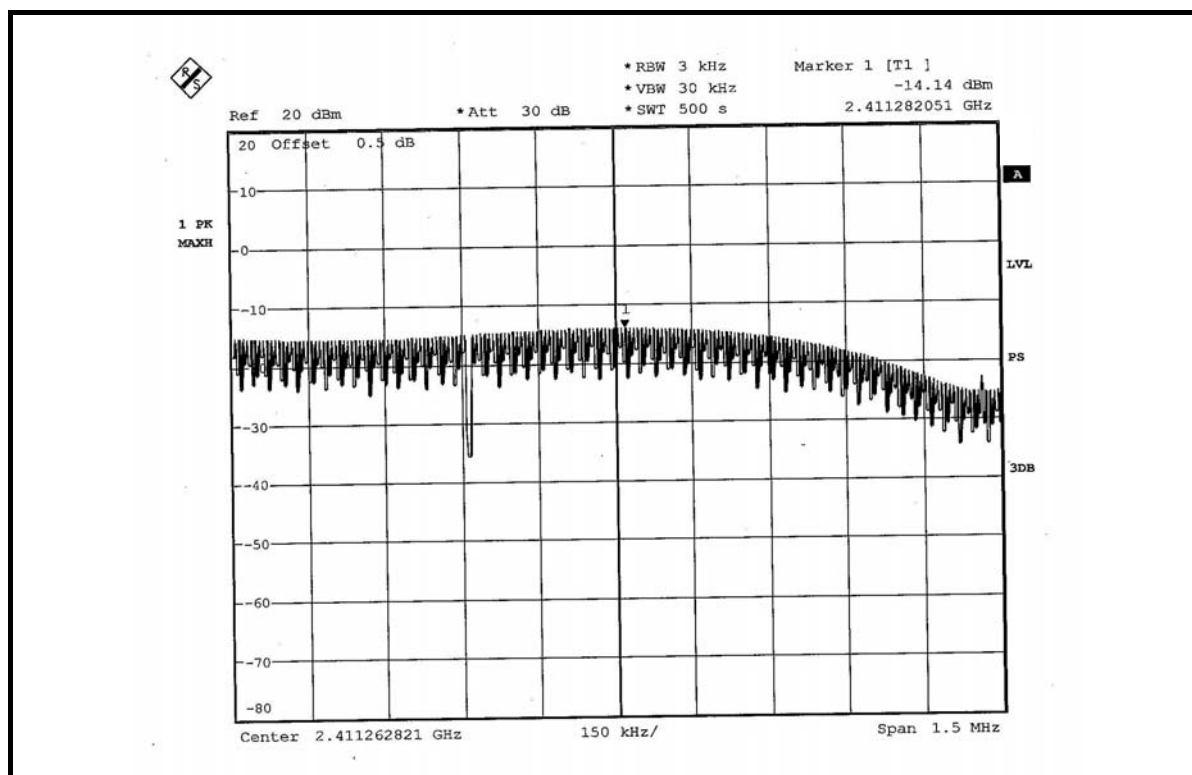
4.5.7 TEST RESULTS

802.11b DSSS MODULATION: DUAL TX

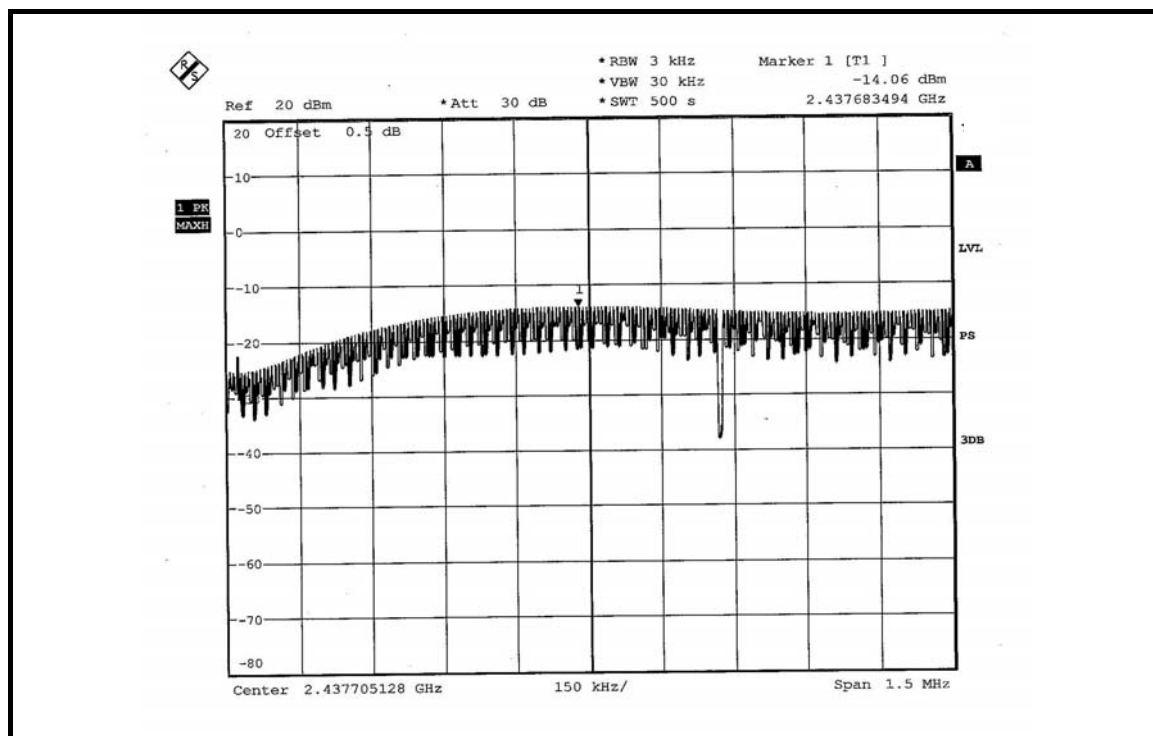
MODULATION TYPE	DBPSK	TRANSFER RATE	1.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg.C, 70%RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (mW)		RF POWER LEVEL IN 3kHz BW (dBm)		TOTAL POWER DENSITY (mW)	TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1				
1	2412	0.039	0.037	-14.14	-14.36	0.076	-11.24	8	PASS
6	2437	0.039	0.039	-14.06	-14.12	0.078	-11.08	8	PASS
11	2462	0.048	0.048	-13.21	-13.22	0.096	-10.20	8	PASS

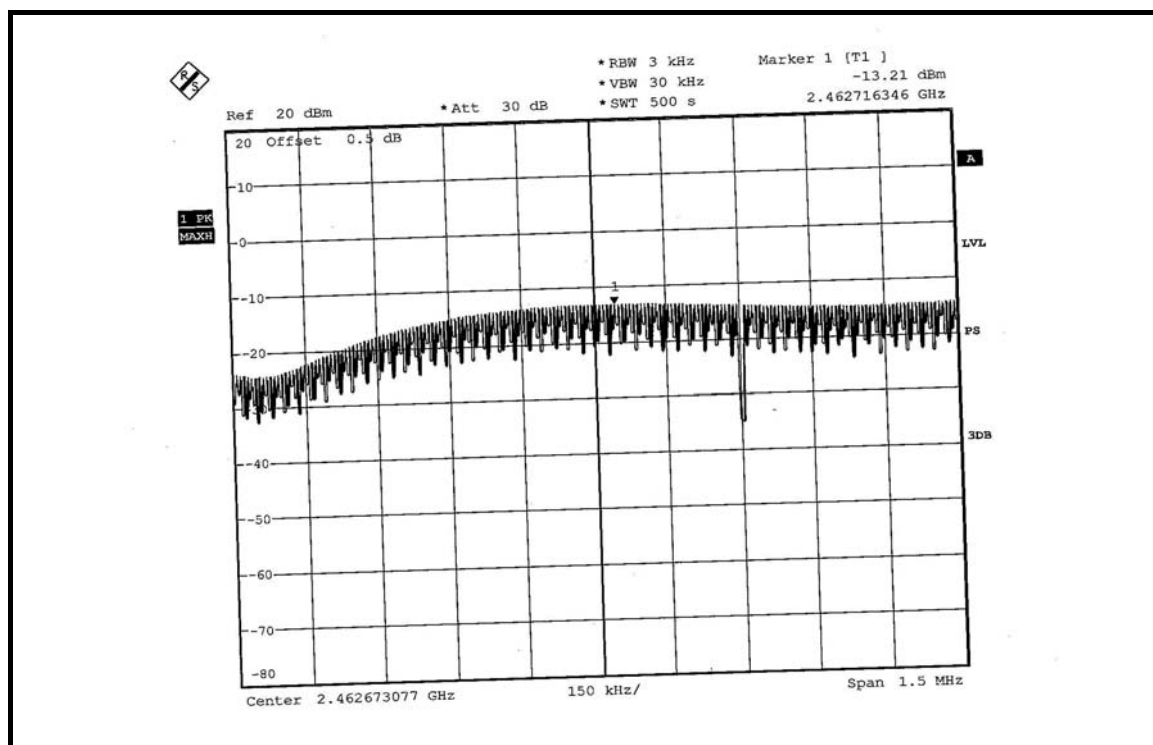
FOR CHAIN 0: CH 1



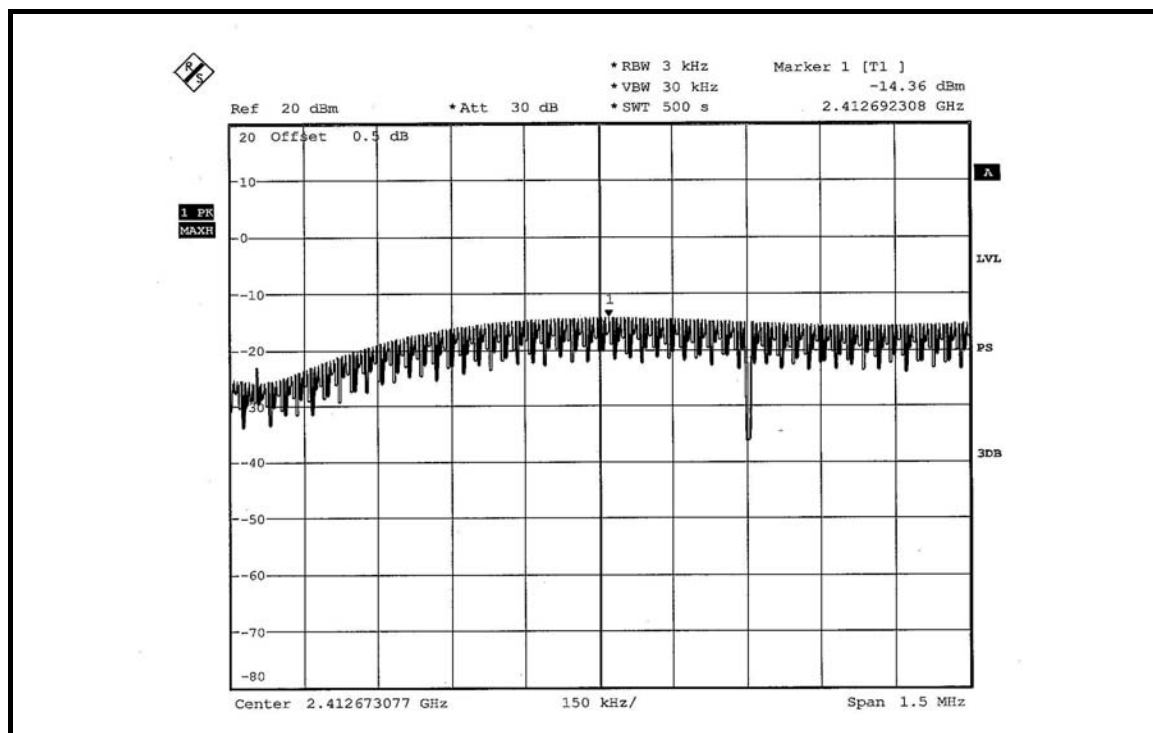
CH 6



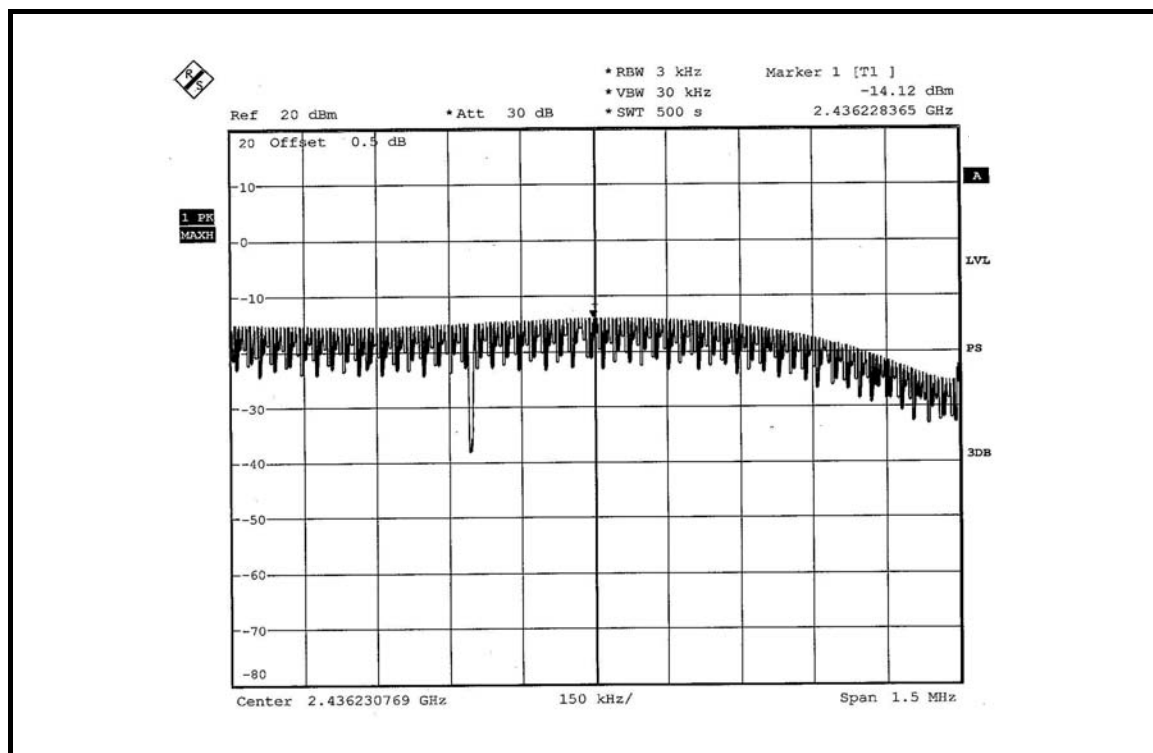
CH 11



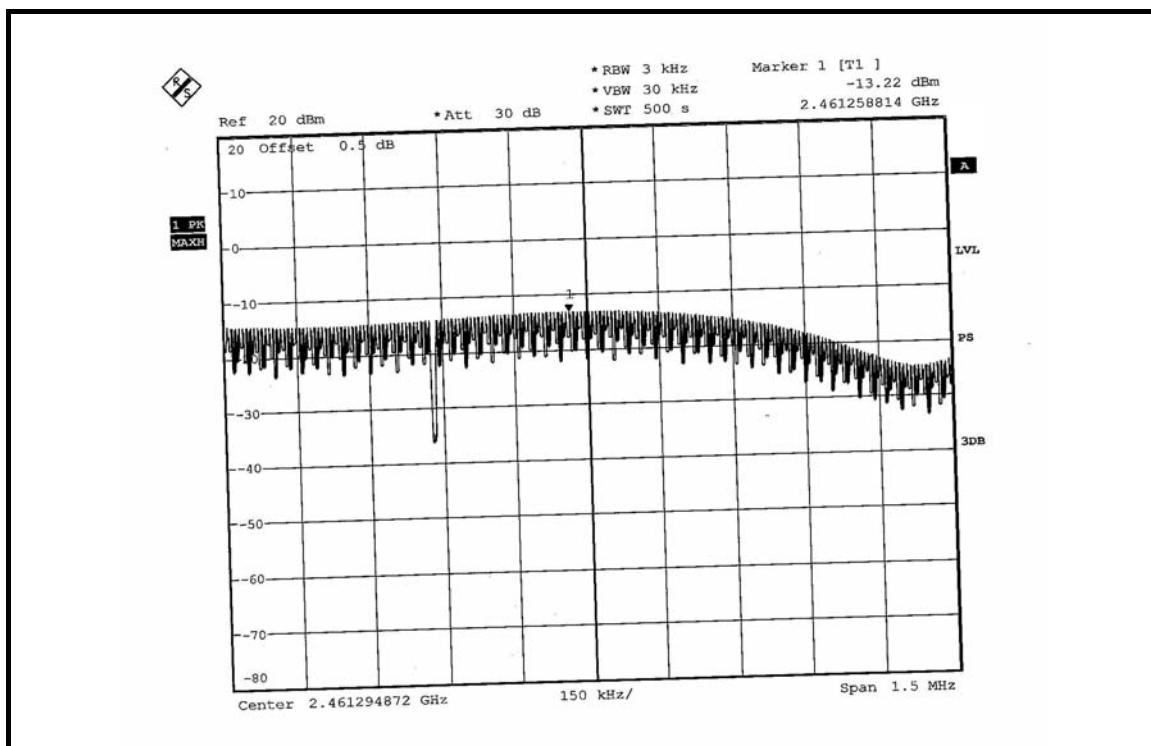
FOR CHAIN 1: CH 1



CH 6



CH 11

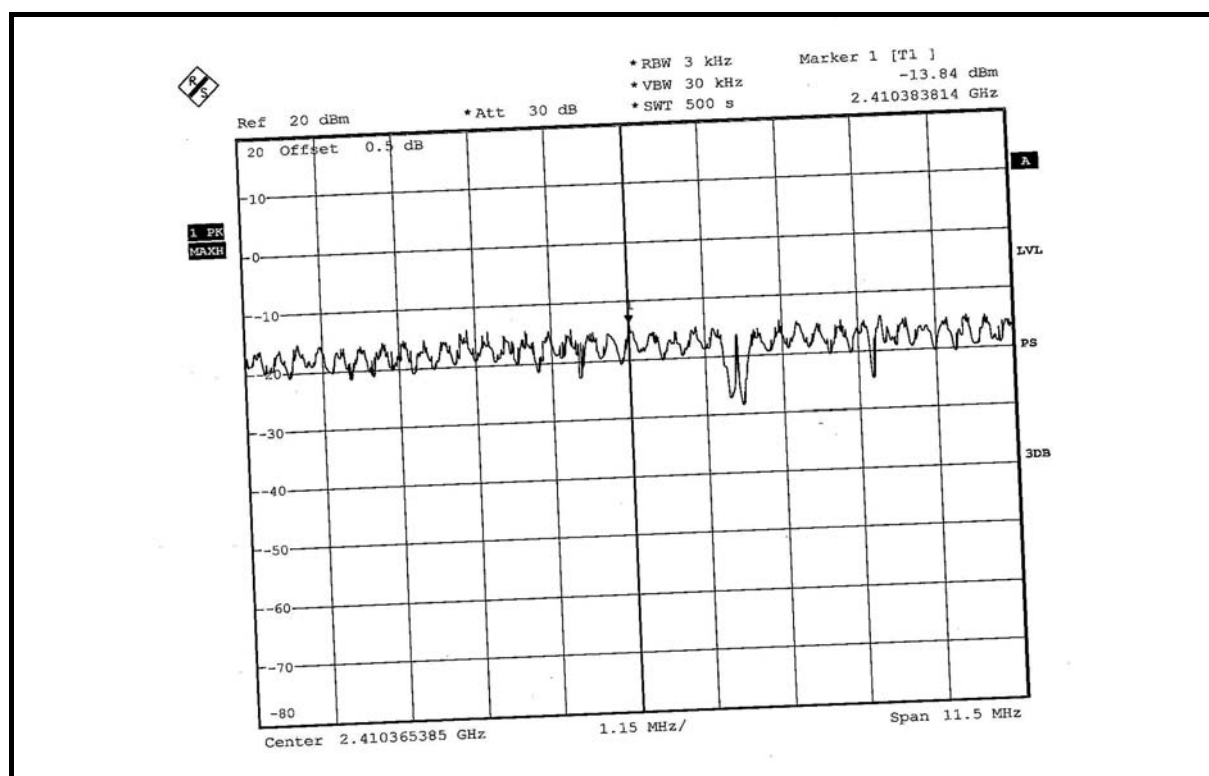


802.11g OFDM MODULATION: DUAL TX

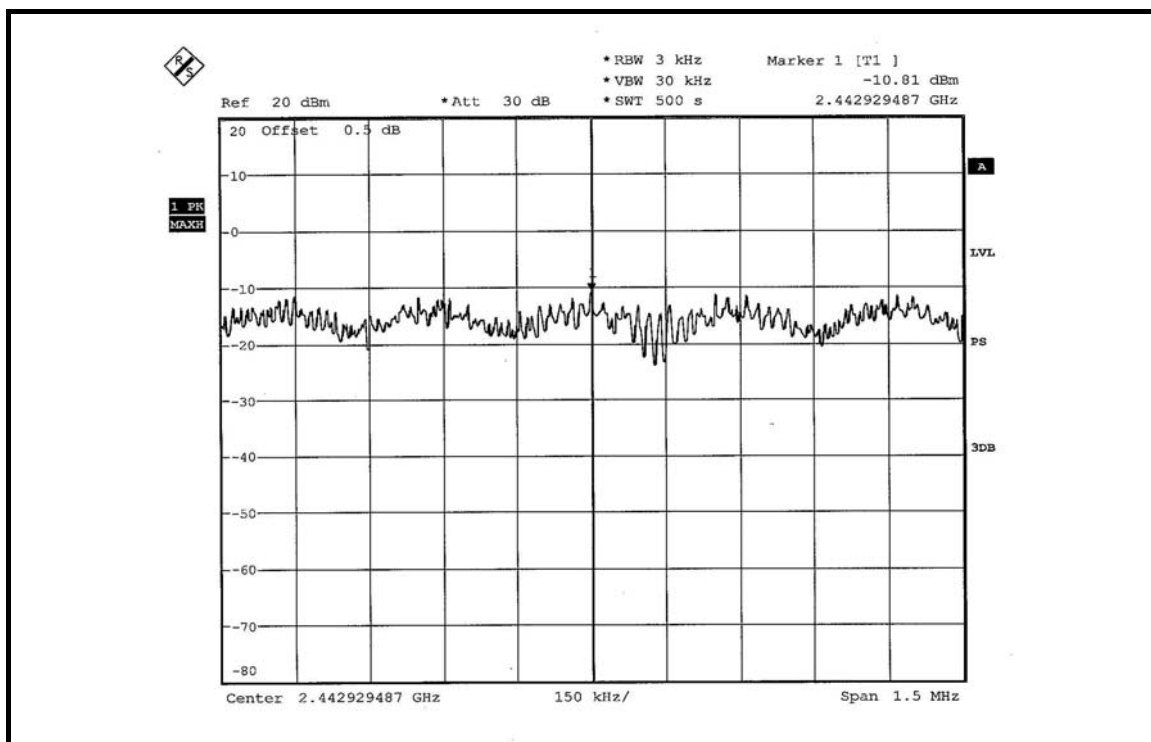
MODULATION TYPE	BPSK	TRANSFER RATE	6.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg.C, 70%RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (mW)		RF POWER LEVEL IN 3kHz BW (dBm)		TOTAL POWER DENSITY (mW)	TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1				
1	2412	0.041	0.040	-13.84	-13.94	0.082	-10.88	8	PASS
6	2437	0.083	0.081	-10.81	-10.91	0.164	-7.85	8	PASS
11	2462	0.044	0.040	-13.53	-13.97	0.084	-10.73	8	PASS

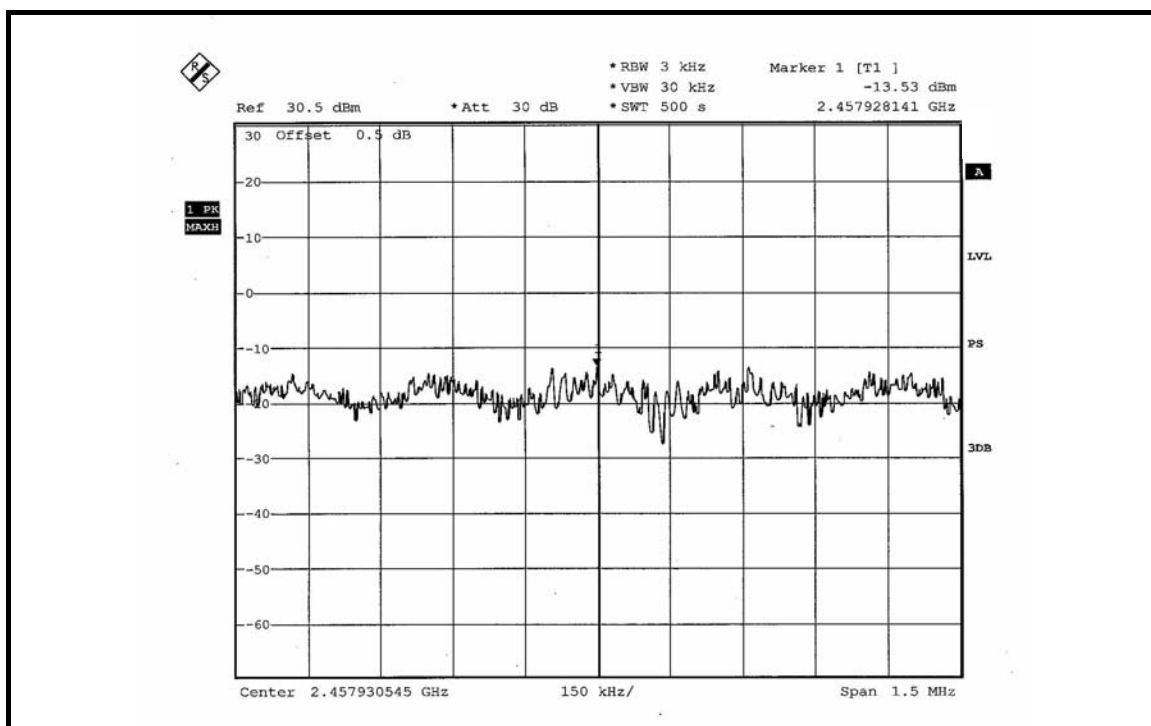
FOR CHAIN 0: CH 1



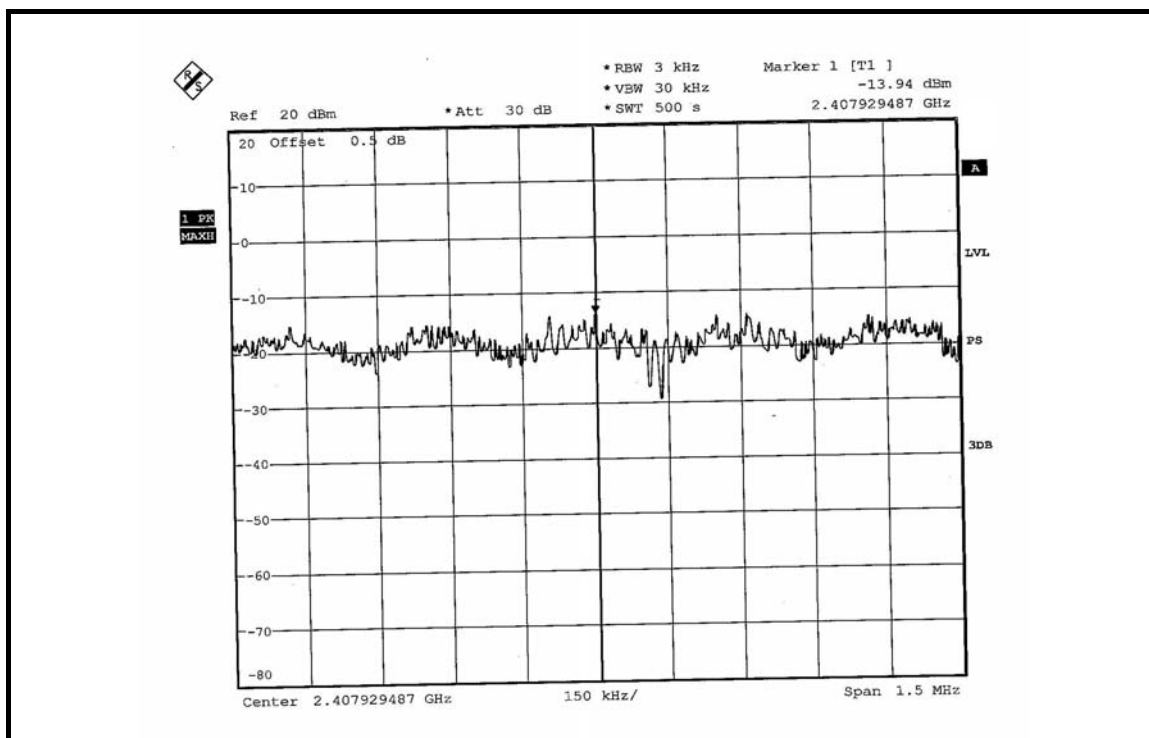
CH 6



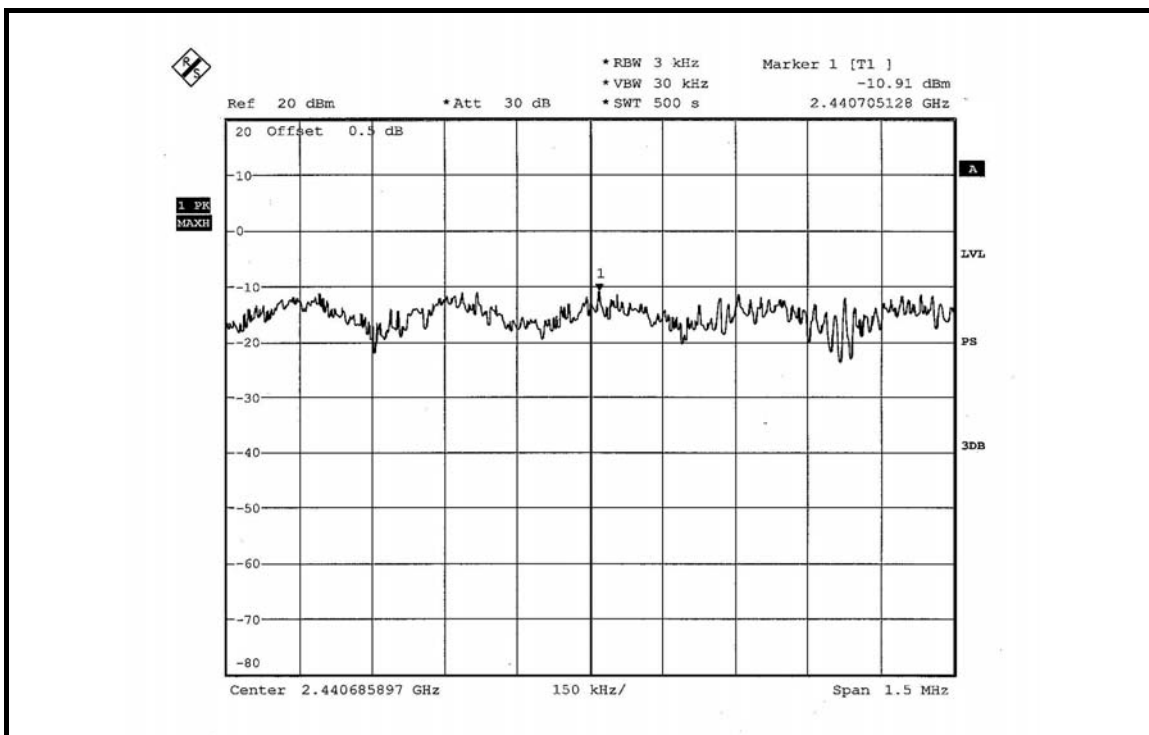
CH 11



FOR CHAIN 1: CH 1



CH 6



DRAFT 802.11n (20MHz) OFDM MODULATION: DUAL TX:

MODULATION TYPE	BPSK	TRANSFER RATE	7.2Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg.C, 70%RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (mW)		RF POWER LEVEL IN 3kHz BW (dBm)		TOTAL POWER DENSITY (mW)	TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1				
1	2412	0.035	0.037	-14.50	-14.36	0.072	-11.42	8	PASS
6	2437	0.069	0.067	-11.64	-11.73	0.136	-8.67	8	PASS
11	2462	0.037	0.034	-14.36	-14.70	0.071	-11.52	8	PASS

FOR CHAIN 0: CH 1

