FCC TEST REPORT

REPORT NO.: RF950822L15
MODEL NO.: WPIM-125GN
SERIES MODEL NO.: AWLH6045
RECEIVED: Aug. 22, 2006
TESTED: Aug. 24 ~ Aug. 26, 2006
ISSUED: Aug. 30, 2006

APPLICANT: Gemtek Technology Co., Ltd.

ADDRESS: No.1, Jen Ai Road, Hsinchu Industrial Park, Hukou Hsinchu, Taiwan, R.O.C. 303

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:	300N Wireless PCI Adapter
MODEL:	WPIM-125GN
SERIES MODEL:	AWLH6045
BRAND:	Gemtek, Airlink101
APPLICANT:	Gemtek Technology Co., Ltd.
TESTED:	Aug. 24 ~ Aug. 26, 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 : Peggy Chen , **DATE:** Aug. 30, 2006
Peggy Chen

TECHNICAL ACCEPTANCE : Long Chen , **DATE:** Aug. 30, 2006
Responsible for RF
Long Chen

APPROVED BY : Gary Chang , **DATE:** Aug. 30, 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 –15.27dB at 0.638MHz.
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 –1.12dB at 4924.00MHz.
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 (Horizontal)	3.56 dB
	30MHz ~ 200MHz (Vertical)	3.71 dB
	200MHz ~1000MHz (Horizontal)	3.72 dB
	200MHz ~1000MHz (Vertical)	3.71 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	300N Wireless PCI Adapter
MODEL NO.	WPIM-125GN
SERIES MODEL NO.	AWLH6045
FCC ID	MXF-P950807GN
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	2400MHz ~ 2483.5MHz
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	228.576mW
ANTENNA TYPE	Dipole antenna with 1.79dBi gain
DATA CABLE	NA
I/O PORTS	NA

NOTE:

1. The models as below are identical to each other expect for their model designation due to marketing requirement.

Brand	Model
Gemtek	WPIM-125GN
Airlink101	AWLH6045

2. The EUT incorporates a MIMO function with 802.11b, 802.11g, draft 802.11n. Physically, the card provides two completed transmitters and three receivers.
3. 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).
4. When the EUT operating in 802.11b, 802.11g, the software operation, which is defined by manufacturer, only set dual Tx.
5. When the EUT operating in 802.11b with “Channel Binding function”, the software operation, which is defined by manufacturer, only set dual Tx.
6. 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.
7. The EUT complies with draft 802.11n standards and backwards compatible with 802.11b, 802.11g products.
8. The EUT operates in the 2.4GHz frequency spectrum with throughput of up to 300Mbps.
9. 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

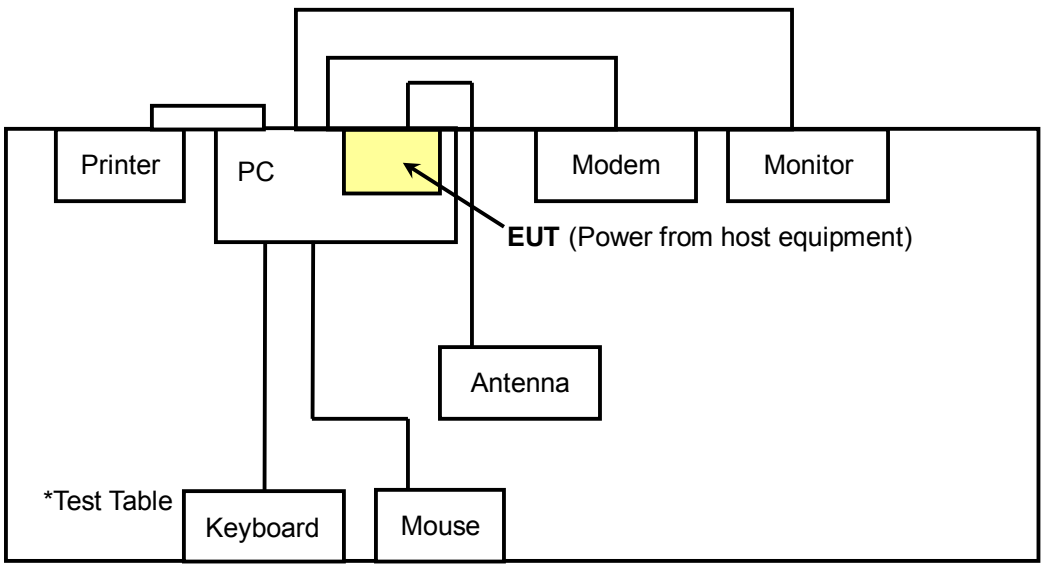
Eleven channels are provided for 802.11b, 802.11g, draft 802.11n (20MHz):

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 802.11b(CB mode), 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	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	Dual
802.11b(CB Mode)	1 to 7	1, 4, 7	DSSS	DBPSK	1	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	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	Dual
802.11b(CB Mode)	1 to 7	1	DSSS	DBPSK	1	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	Dual
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	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	Dual
802.11b(CB Mode)	1 to 7	1, 4, 7	DSSS	DBPSK	1	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	Dual
802.11g	1 to 11	1, 11	OFDM	BPSK	6	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	Dual
802.11b(CB Mode)	1 to 7	1, 7	DSSS	DBPSK	1	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	Dual
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6	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	Dual
802.11b(CB Mode)	1 to 7	1, 4, 7	DSSS	DBPSK	1	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	380125734	FCC DoC Approved
2	PRINTER	EPSON	LQ-300+	DCGY054146	FCC DoC Approved
3	MODEM	ACEEX	1414V/3	0401008260	IFAXDM1414
4	LCD MONITOR	ACER	AL1721	ET.L0408.010404001F9PK00	FCC DoC Approved
5	PS/2 MOUSE	DELL	M071KC	504008969	FCC DoC Approved
6	KEYBOARD	DELL	SK-8110	MY-05N456-71619-4B5-1041	FCC DoC Approved

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	1.2m shielded cable
3	1.2m shielded cable
4	1.8m shielded cable
5	1.8m shielded cable
6	1.3m 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 (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

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

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	100288	Nov. 02, 2006
RF signal cable Woken	5D-FB	Cable-HYCO3-01	Jan. 06, 2007
LISN ROHDE & SCHWARZ	ESH2-Z5	100100	Jan. 09, 2007
LISN ROHDE & SCHWARZ	ESH3-Z5	100311	Jan. 22, 2007
Software ADT	ADT_Cond_V3	NA	NA

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Shielded Room 2.
3. The VCCI Site Registration No. is C-2047.

4.1.3 TEST PROCEDURES

a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.

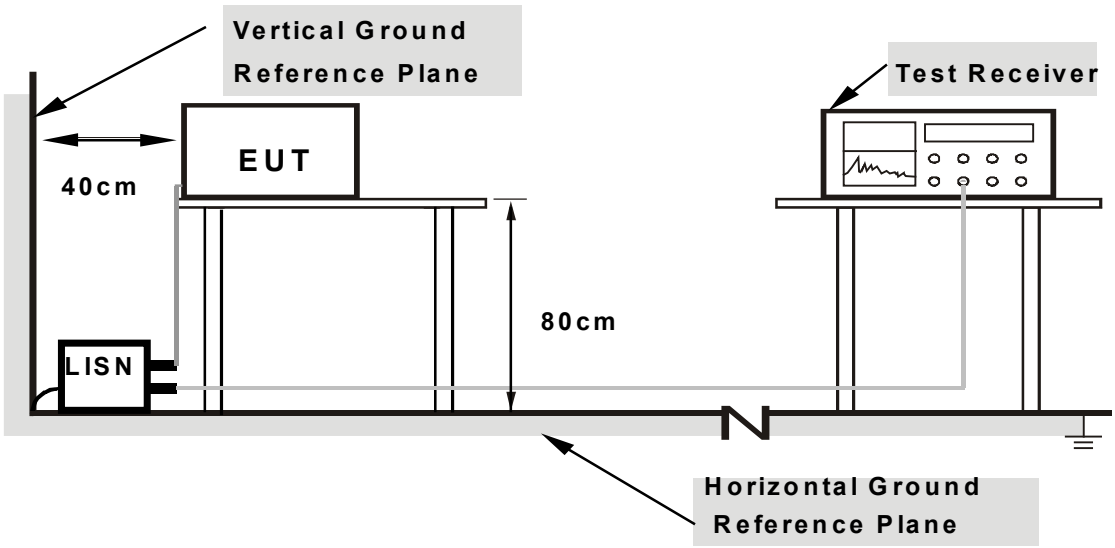
b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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

4.1.6 EUT OPERATING CONDITIONS

a. Connected the EUT into the Personal Computer system and placed on a testing table.
b. The Personal Computer system ran a test program (provided by manufacturer) to enable EUT under transmission/receiving condition continuously at specific channel frequency.
c. The Personal Computer system sent "H" messages to the modem.
d. The Personal Computer system sent "H" messages to monitor and the monitors displayed “H” patterns.
e. The Personal Computer system sent "H" messages to printer, and the printer printed them on paper.
f. Steps c ~ e were repeated.

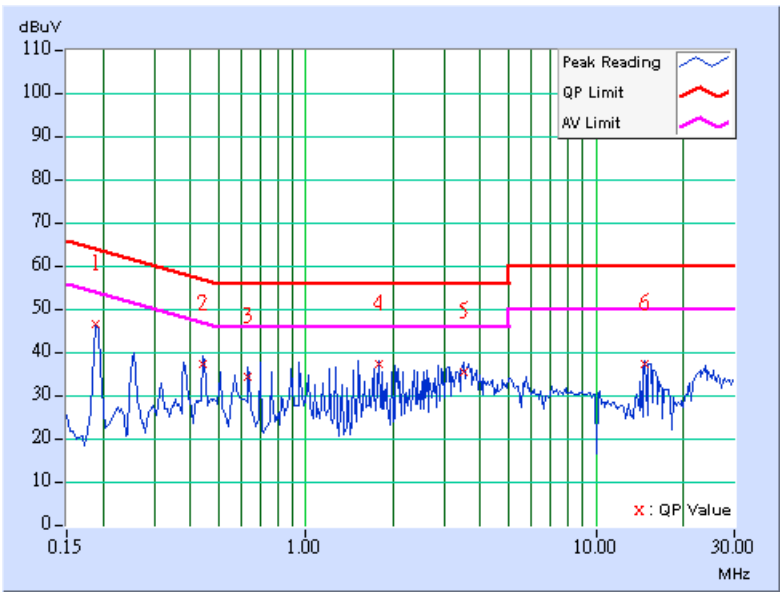
4.1.7 TEST RESULTS

CONDUCTED WORST-CASE DATA: 802.11g OFDM MODULATION:

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

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.189	0.10	46.13	-	46.23	-	64.08	54.08	-17.85	-
2	0.443	0.10	36.97	-	37.07	-	57.01	47.01	-19.94	-
3	0.634	0.10	33.92	-	34.02	-	56.00	46.00	-21.98	-
4	1.777	0.18	36.82	-	37.00	-	56.00	46.00	-19.00	-
5	3.492	0.33	34.78	-	35.11	-	56.00	46.00	-20.89	-
6	14.799	0.62	36.93	-	37.55	-	60.00	50.00	-22.45	-

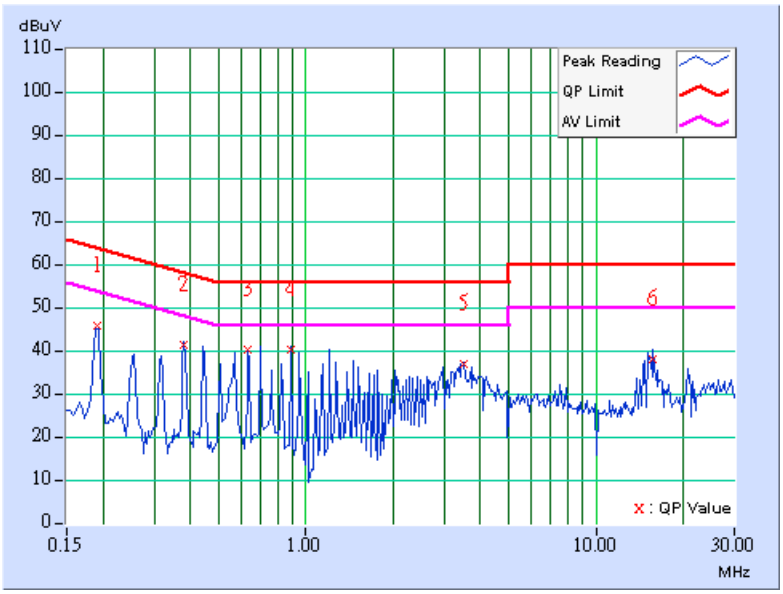
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



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

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.190	0.10	45.37	-	45.47	-	64.02	54.02	-18.55	-
2	0.380	0.10	40.95	-	41.05	-	58.27	48.27	-17.22	-
3	0.634	0.14	39.91	-	40.05	-	56.00	46.00	-15.95	-
4	0.888	0.18	39.59	-	39.77	-	56.00	46.00	-16.23	-
5	3.491	0.33	36.31	-	36.64	-	56.00	46.00	-19.36	-
6	15.727	0.62	37.43	-	38.05	-	60.00	50.00	-21.95	-

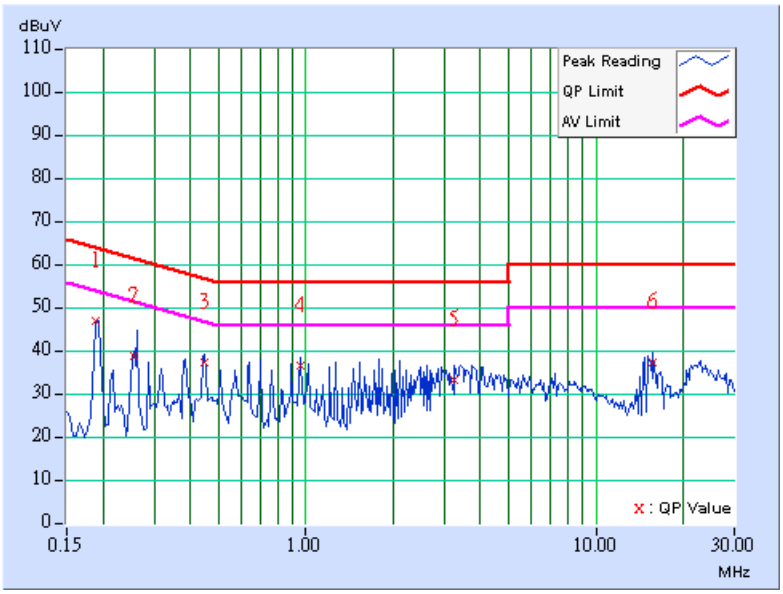
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



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

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.189	0.10	46.42	-	46.52	-	64.08	54.08	-17.56	-
2	0.256	0.10	38.35	-	38.45	-	61.57	51.57	-23.12	-
3	0.447	0.10	36.86	-	36.96	-	56.93	46.93	-19.97	-
4	0.955	0.10	35.98	-	36.08	-	56.00	46.00	-19.92	-
5	3.251	0.31	32.60	-	32.91	-	56.00	46.00	-23.09	-
6	15.789	0.62	36.72	-	37.34	-	60.00	50.00	-22.66	-

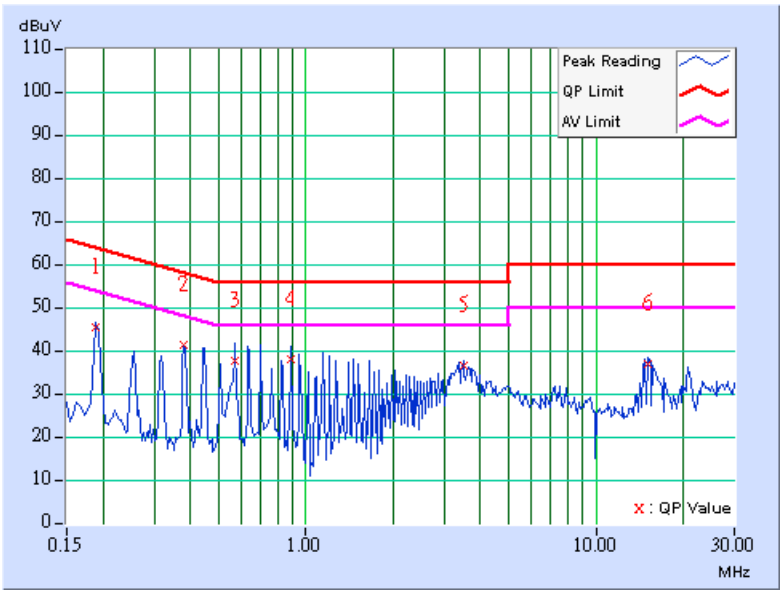
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission 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	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.189	0.10	44.76	-	44.86	-	64.08	54.08	-19.22	-
2	0.380	0.10	40.89	-	40.99	-	58.27	48.27	-17.28	-
3	0.572	0.13	37.16	-	37.29	-	56.00	46.00	-18.71	-
4	0.888	0.18	37.54	-	37.72	-	56.00	46.00	-18.28	-
5	3.500	0.33	36.04	-	36.37	-	56.00	46.00	-19.63	-
6	15.105	0.63	36.33	-	36.96	-	60.00	50.00	-23.04	-

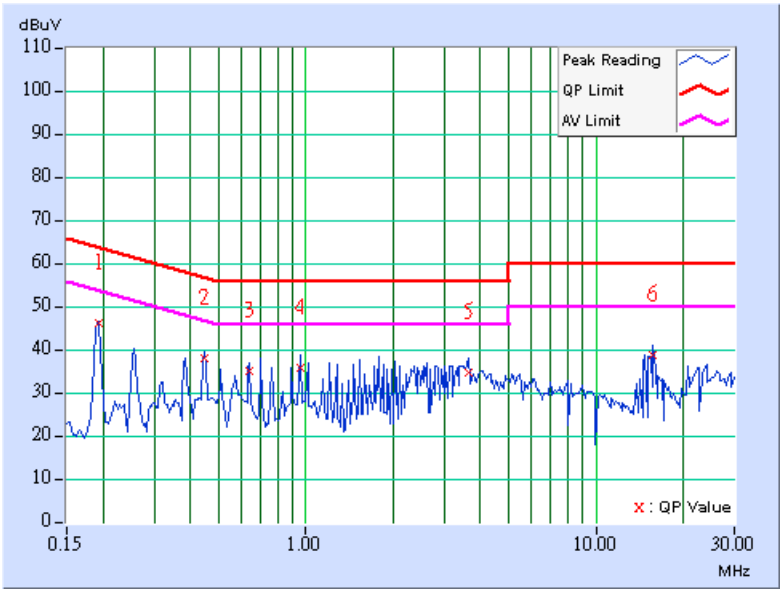
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission 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	6Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	45.77	-	45.87	-	63.91	53.91	-18.04	-
2	0.447	0.10	37.40	-	37.50	-	56.93	46.93	-19.43	-
3	0.638	0.10	34.69	-	34.79	-	56.00	46.00	-21.21	-
4	0.955	0.10	35.43	-	35.53	-	56.00	46.00	-20.47	-
5	3.637	0.34	34.05	-	34.39	-	56.00	46.00	-21.61	-
6	15.727	0.62	38.40	-	39.02	-	60.00	50.00	-20.98	-

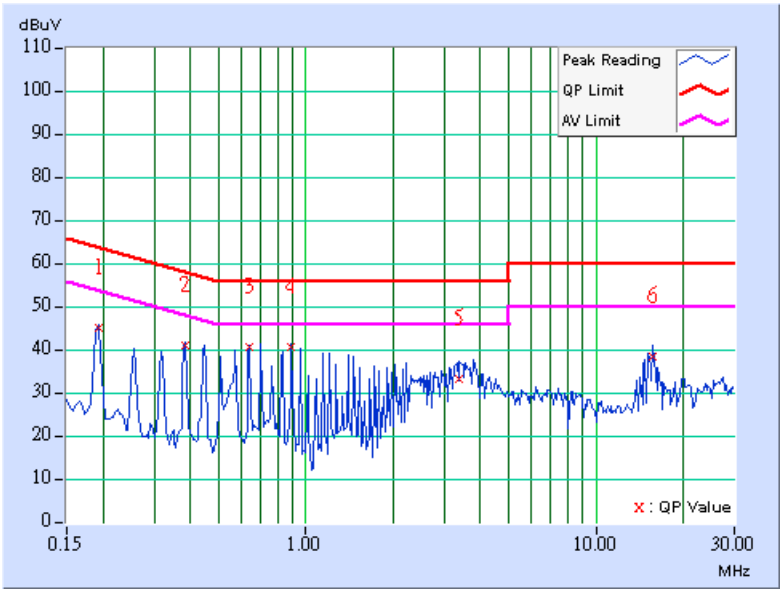
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



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

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	44.62	-	44.72	-	63.91	53.91	-19.19	-
2	0.384	0.10	40.45	-	40.55	-	58.18	48.18	-17.63	-
3	0.638	0.14	40.11	-	40.25	-	56.00	46.00	-15.75	-
4	0.892	0.18	39.99	-	40.17	-	56.00	46.00	-15.83	-
5	3.375	0.32	32.82	-	33.14	-	56.00	46.00	-22.86	-
6	15.730	0.62	38.03	-	38.65	-	60.00	50.00	-21.35	-

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

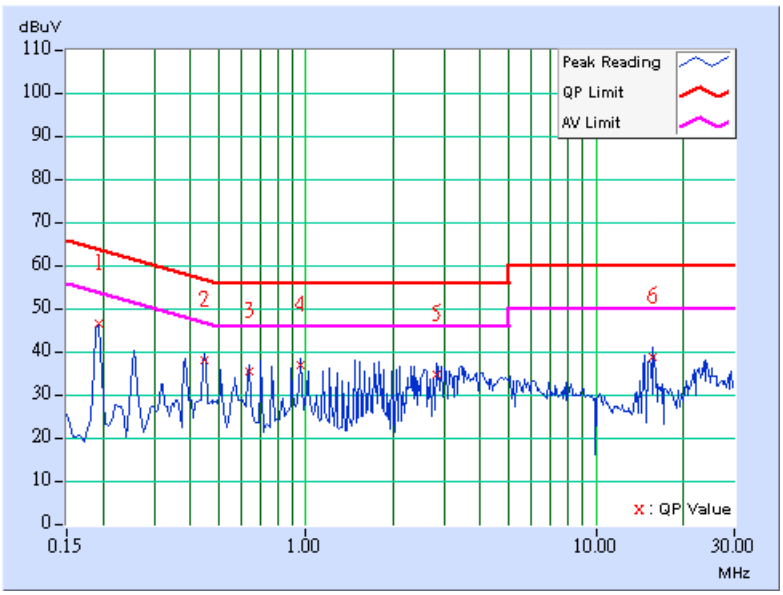


DRAFT 802.11n (20MHz) OFDM MODULATION: DUAL TX:

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	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	45.87	-	45.97	-	63.91	53.91	-17.94	-
2	0.447	0.10	37.49	-	37.59	-	56.93	46.93	-19.34	-
3	0.638	0.10	35.02	-	35.12	-	56.00	46.00	-20.88	-
4	0.959	0.10	36.43	-	36.53	-	56.00	46.00	-19.47	-
5	2.809	0.27	34.29	-	34.56	-	56.00	46.00	-21.44	-
6	15.730	0.62	38.16	-	38.78	-	60.00	50.00	-21.22	-

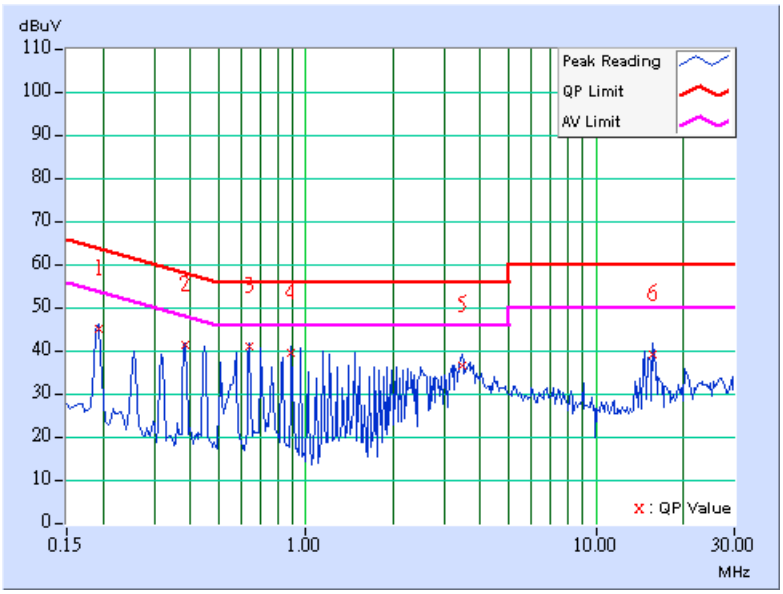
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission 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	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	44.74	-	44.84	-	63.91	53.91	-19.07	-
2	0.384	0.10	40.85	-	40.95	-	58.18	48.18	-17.23	-
3	0.638	0.14	40.53	-	40.67	-	56.00	46.00	-15.33	-
4	0.892	0.18	39.17	-	39.35	-	56.00	46.00	-16.65	-
5	3.445	0.32	36.13	-	36.45	-	56.00	46.00	-19.55	-
6	15.727	0.62	38.52	-	39.14	-	60.00	50.00	-20.86	-

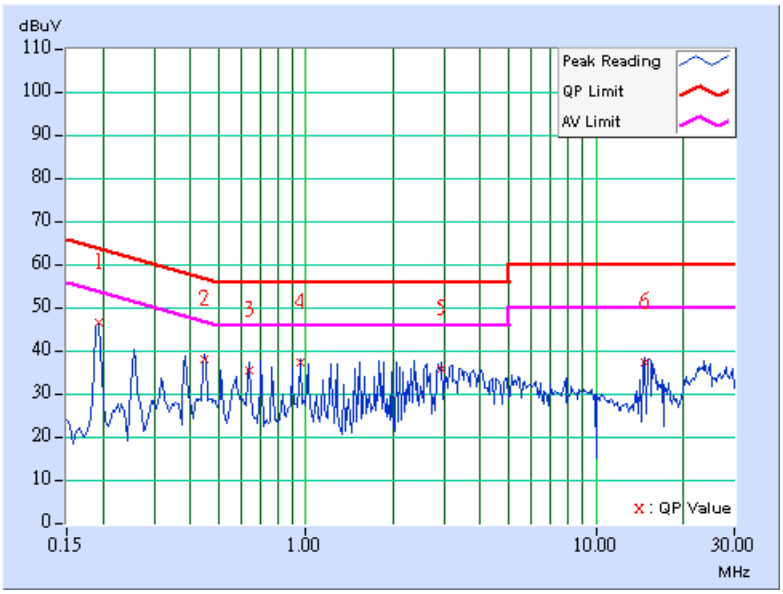
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	45.97	-	46.07	-	63.91	53.91	-17.84	-
2	0.447	0.10	37.55	-	37.65	-	56.93	46.93	-19.28	-
3	0.638	0.10	35.12	-	35.22	-	56.00	46.00	-20.78	-
4	0.959	0.10	36.67	-	36.77	-	56.00	46.00	-19.23	-
5	2.941	0.28	35.24	-	35.52	-	56.00	46.00	-20.48	-
6	14.809	0.62	36.83	-	37.45	-	60.00	50.00	-22.55	-

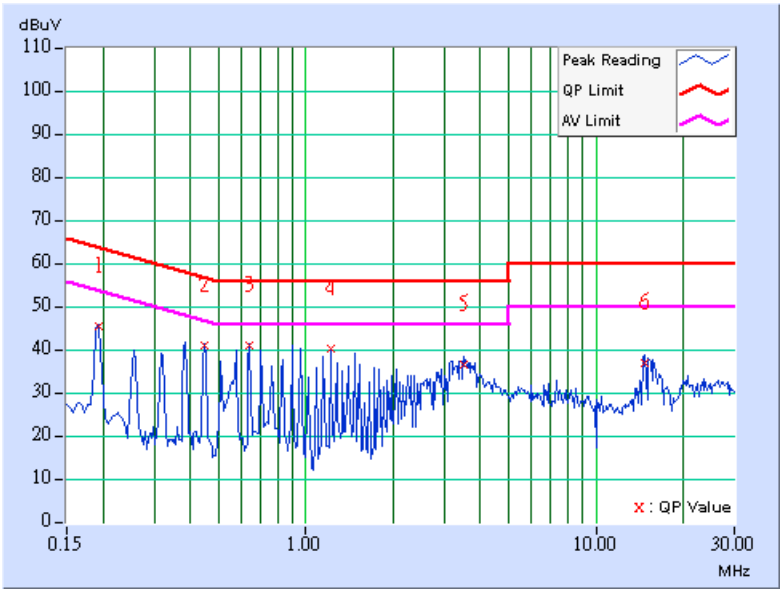
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission 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	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	44.80	-	44.90	-	63.91	53.91	-19.01	-
2	0.447	0.11	40.66	-	40.77	-	56.93	46.93	-16.17	-
3	**0.638**	**0.14**	**40.59**	**-**	**40.73**	**-**	**56.00**	**46.00**	**-15.27**	**-**
4	1.215	0.20	39.64	-	39.84	-	56.00	46.00	-16.16	-
5	3.516	0.33	35.98	-	36.31	-	56.00	46.00	-19.69	-
6	14.805	0.62	36.32	-	36.94	-	60.00	50.00	-23.06	-

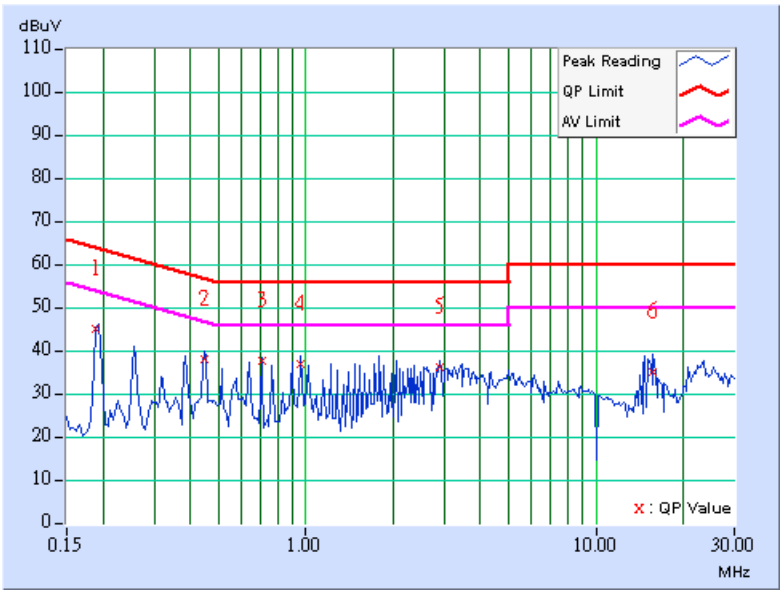
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission 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	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.189	0.10	44.66	-	44.76	-	64.08	54.08	-19.32	-
2	0.447	0.10	37.49	-	37.59	-	56.93	46.93	-19.34	-
3	0.705	0.10	37.15	-	37.25	-	56.00	46.00	-18.75	-
4	0.959	0.10	36.59	-	36.69	-	56.00	46.00	-19.31	-
5	2.879	0.27	35.69	-	35.96	-	56.00	46.00	-20.04	-
6	15.723	0.62	34.74	-	35.36	-	60.00	50.00	-24.64	-

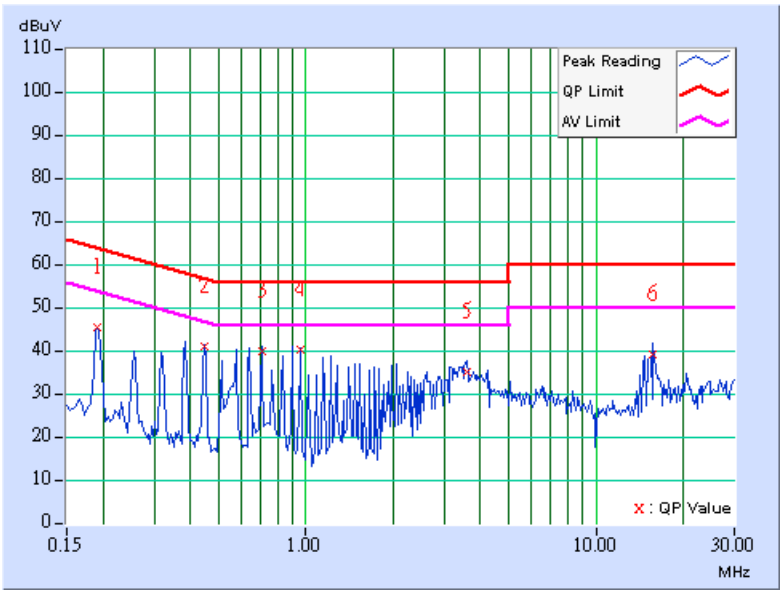
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission 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	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.192	0.10	45.00	-	45.10	-	63.94	53.94	-18.84	-
2	0.447	0.11	40.54	-	40.65	-	56.93	46.93	-16.29	-
3	0.705	0.15	39.48	-	39.63	-	56.00	46.00	-16.37	-
4	0.959	0.19	39.62	-	39.81	-	56.00	46.00	-16.19	-
5	3.582	0.33	34.70	-	35.03	-	56.00	46.00	-20.97	-
6	15.727	0.62	38.56	-	39.18	-	60.00	50.00	-20.82	-

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.

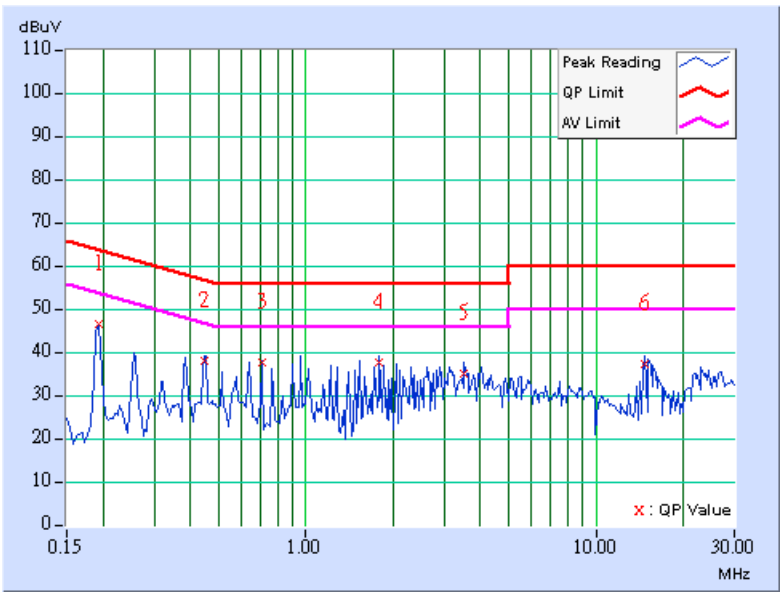


DRAFT 802.11n (40MHz) OFDM MODULATION: DUAL TX:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	46.01	-	46.11	-	63.91	53.91	-17.80	-
2	0.447	0.10	37.40	-	37.50	-	56.93	46.93	-19.43	-
3	0.705	0.10	37.29	-	37.39	-	56.00	46.00	-18.61	-
4	1.793	0.18	37.20	-	37.38	-	56.00	46.00	-18.62	-
5	3.520	0.33	34.74	-	35.07	-	56.00	46.00	-20.93	-
6	14.805	0.62	36.81	-	37.43	-	60.00	50.00	-22.57	-

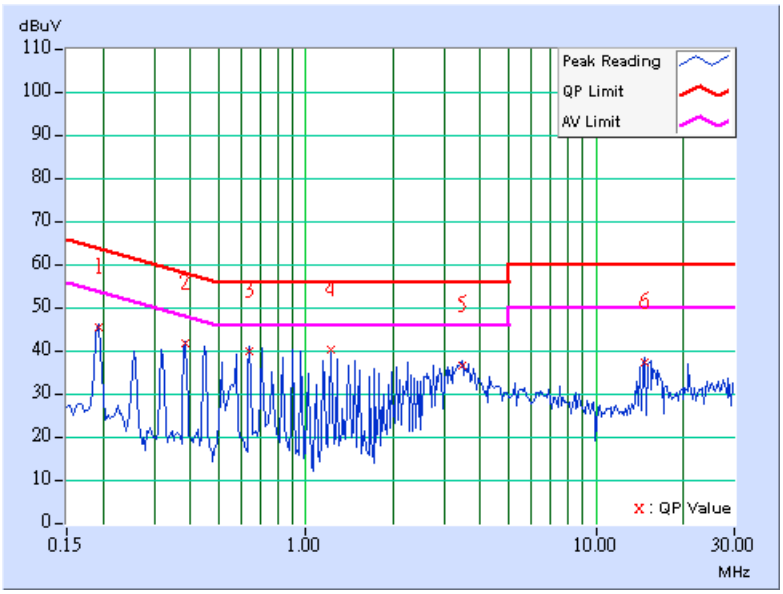
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	44.78	-	44.88	-	63.91	53.91	-19.03	-
2	0.384	0.10	41.20	-	41.30	-	58.18	48.18	-16.88	-
3	0.642	0.14	39.47	-	39.61	-	56.00	46.00	-16.39	-
4	1.215	0.20	39.60	-	39.80	-	56.00	46.00	-16.20	-
5	3.457	0.32	36.20	-	36.52	-	56.00	46.00	-19.48	-
6	14.805	0.62	36.85	-	37.47	-	60.00	50.00	-22.53	-

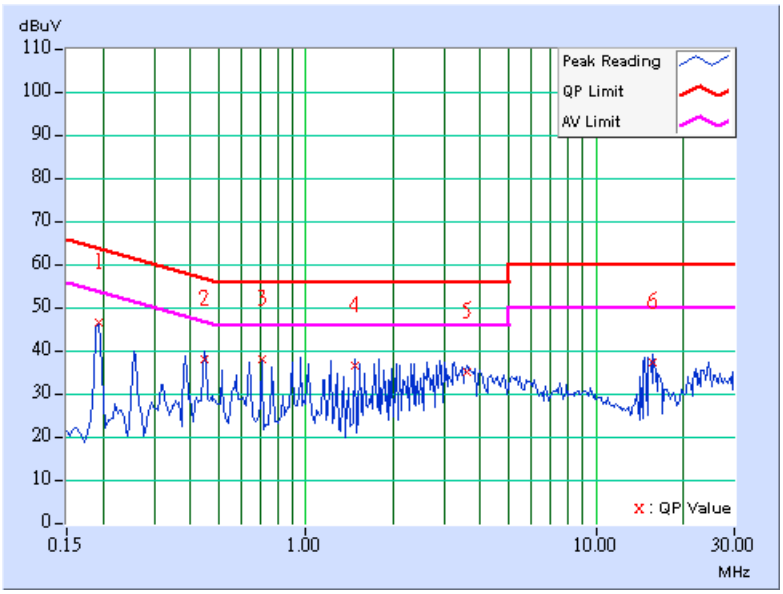
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	46.13	-	46.23	-	63.91	53.91	-17.68	-
2	0.447	0.10	37.40	-	37.50	-	56.93	46.93	-19.43	-
3	0.705	0.10	37.57	-	37.67	-	56.00	46.00	-18.33	-
4	1.473	0.15	36.03	-	36.18	-	56.00	46.00	-19.82	-
5	3.586	0.33	34.42	-	34.75	-	56.00	46.00	-21.25	-
6	15.789	0.62	36.67	-	37.29	-	60.00	50.00	-22.71	-

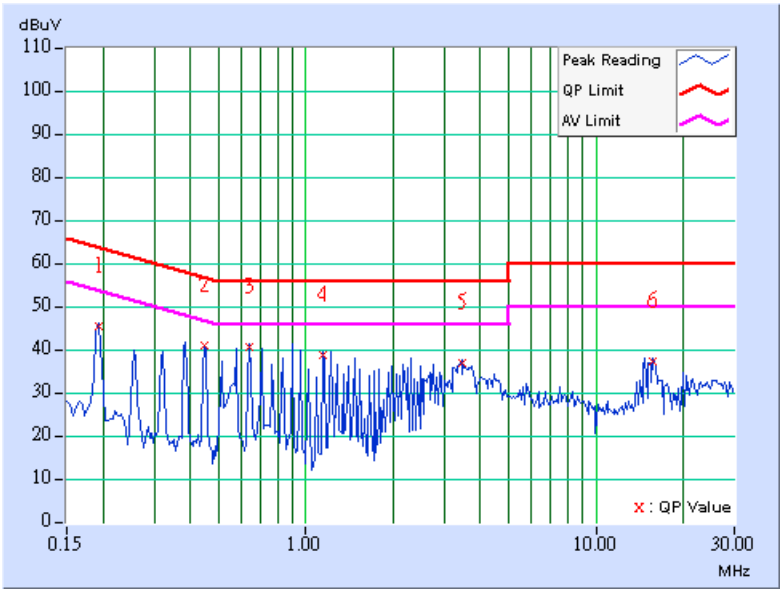
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission 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	15Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	44.93	-	45.03	-	63.91	53.91	-18.88	-
2	0.447	0.11	40.54	-	40.65	-	56.93	46.93	-16.29	-
3	0.638	0.14	40.11	-	40.25	-	56.00	46.00	-15.75	-
4	1.152	0.20	38.29	-	38.49	-	56.00	46.00	-17.51	-
5	3.457	0.32	36.50	-	36.82	-	56.00	46.00	-19.18	-
6	15.789	0.62	36.65	-	37.27	-	60.00	50.00	-22.73	-

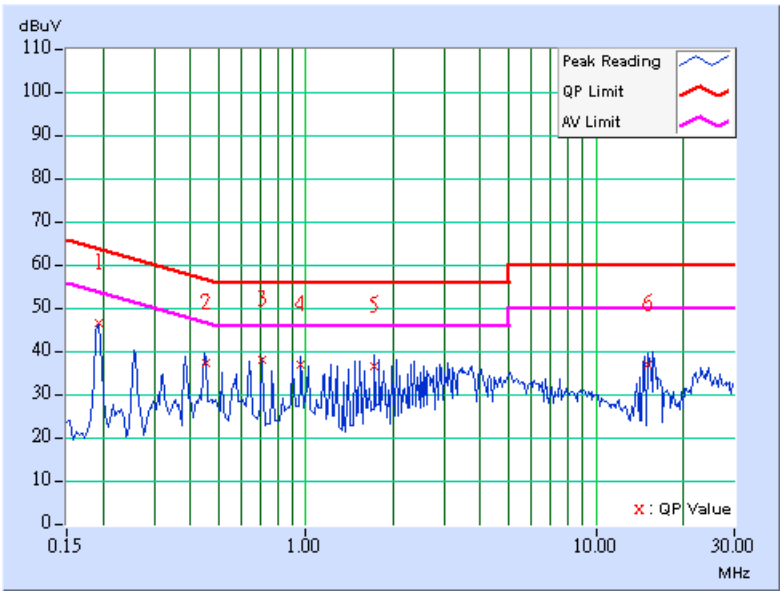
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission 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	15Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	46.19	-	46.29	-	63.91	53.91	-17.62	-
2	0.451	0.10	36.69	-	36.79	-	56.86	46.86	-20.07	-
3	0.705	0.10	37.65	-	37.75	-	56.00	46.00	-18.25	-
4	0.963	0.10	36.39	-	36.49	-	56.00	46.00	-19.51	-
5	1.730	0.17	35.90	-	36.07	-	56.00	46.00	-19.93	-
6	15.109	0.63	36.23	-	36.86	-	60.00	50.00	-23.14	-

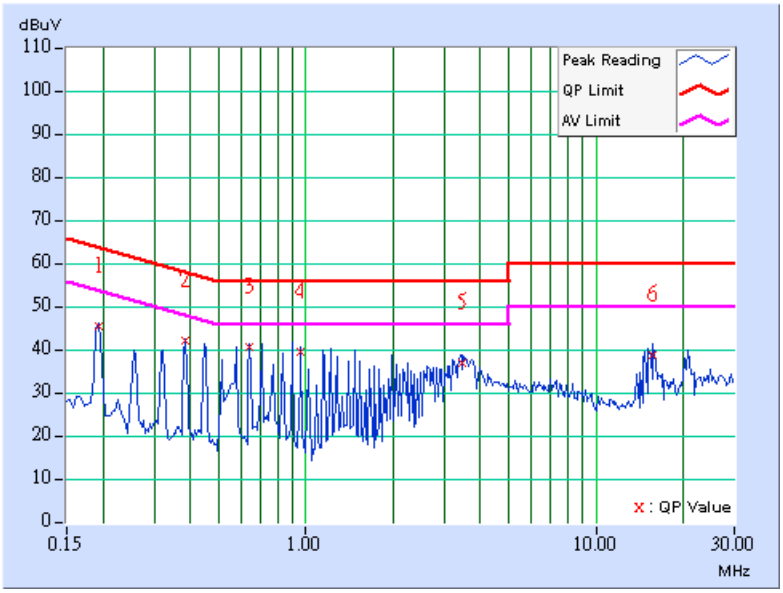
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	44.97	-	45.07	-	63.91	53.91	-18.84	-
2	0.384	0.10	41.48	-	41.58	-	58.18	48.18	-16.60	-
3	0.642	0.14	40.03	-	40.17	-	56.00	46.00	-15.83	-
4	0.963	0.19	39.14	-	39.33	-	56.00	46.00	-16.67	-
5	3.461	0.32	36.38	-	36.70	-	56.00	46.00	-19.30	-
6	15.727	0.62	38.32	-	38.94	-	60.00	50.00	-21.06	-

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.

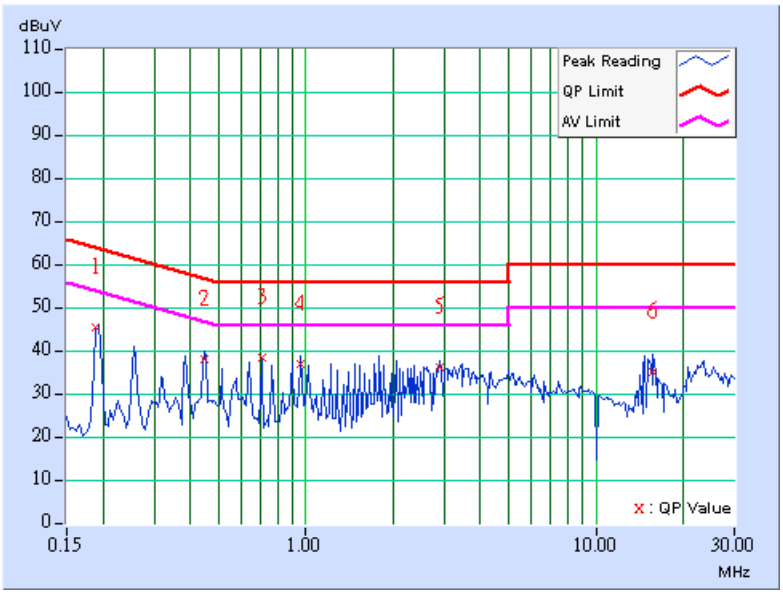


802.11b (CB mode) DSSS MODULATION: DUAL TX:

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

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.189	0.10	44.86	-	44.96	-	64.06	54.06	-19.10	-
2	0.448	0.10	37.49	-	37.59	-	56.91	46.91	-19.32	-
3	0.706	0.10	37.75	-	37.85	-	56.00	46.00	-18.15	-
4	0.959	0.10	36.59	-	36.69	-	56.00	46.00	-19.31	-
5	2.879	0.27	35.71	-	35.98	-	56.00	46.00	-20.02	-
6	15.723	0.62	34.74	-	35.36	-	60.00	50.00	-24.64	-

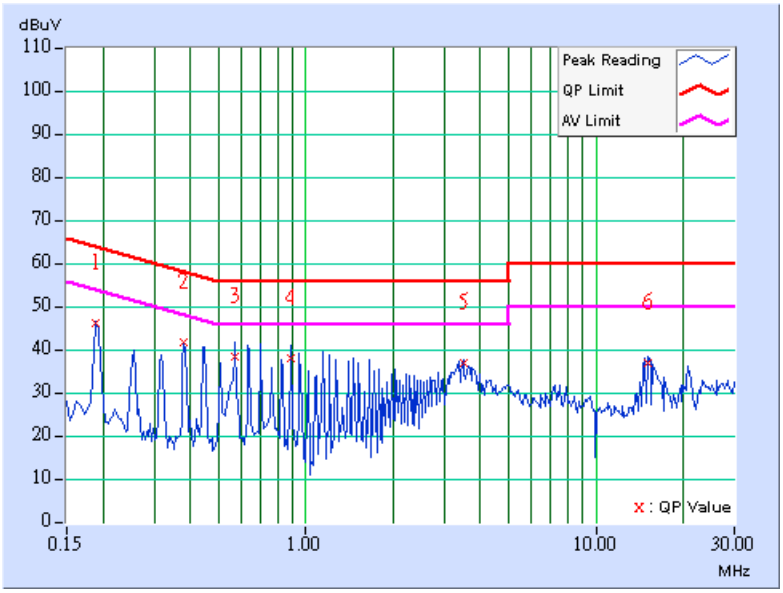
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission 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	1Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.189	0.10	45.76	-	45.86	-	64.09	54.09	-18.23	-
2	0.381	0.10	41.05	-	41.15	-	58.25	48.25	-17.10	-
3	0.572	0.13	37.76	-	37.89	-	56.00	46.00	-18.11	-
4	0.888	0.18	37.54	-	37.72	-	56.00	46.00	-18.28	-
5	3.500	0.33	36.44	-	36.77	-	56.00	46.00	-19.23	-
6	15.105	0.63	36.33	-	36.96	-	60.00	50.00	-23.04	-

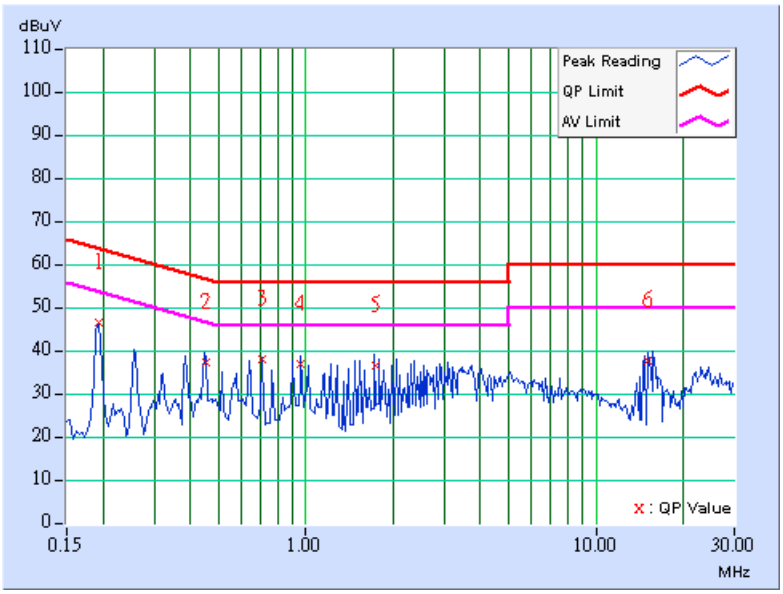
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission 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	1Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	46.19	-	46.29	-	63.90	53.90	-17.61	-
2	0.451	0.10	36.89	-	36.99	-	56.85	46.85	-19.86	-
3	0.705	0.10	37.65	-	37.75	-	56.00	46.00	-18.25	-
4	0.963	0.10	36.57	-	36.67	-	56.00	46.00	-19.33	-
5	1.731	0.17	35.90	-	36.07	-	56.00	46.00	-19.93	-
6	15.110	0.63	37.23	-	37.86	-	60.00	50.00	-22.14	-

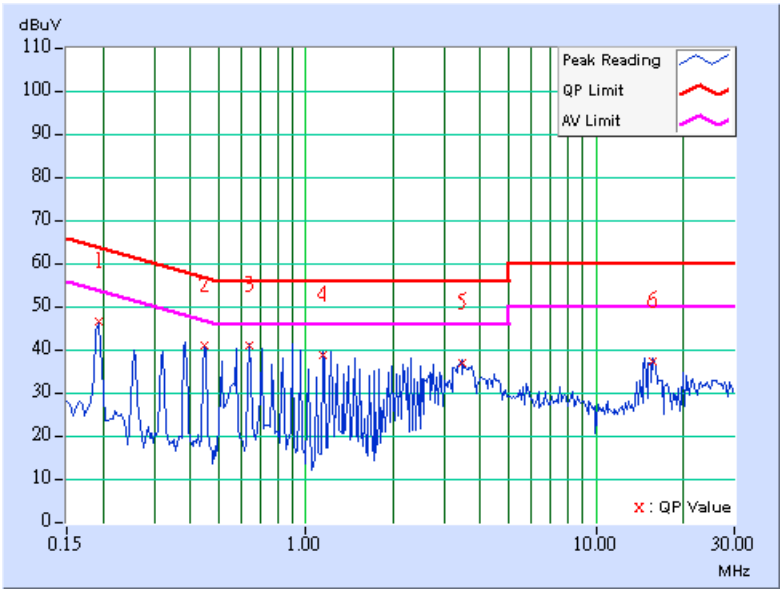
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	PHASE	Line 2
MODULATION TYPE	DBPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	1Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.10	45.93	-	46.03	-	63.89	53.89	-17.86	-
2	0.447	0.11	40.54	-	40.65	-	56.93	46.93	-16.29	-
3	0.638	0.14	40.31	-	40.45	-	56.00	46.00	-15.55	-
4	1.152	0.20	38.29	-	38.49	-	56.00	46.00	-17.51	-
5	3.457	0.32	36.60	-	36.92	-	56.00	46.00	-19.08	-
6	15.790	0.62	36.79	-	37.41	-	60.00	50.00	-22.59	-

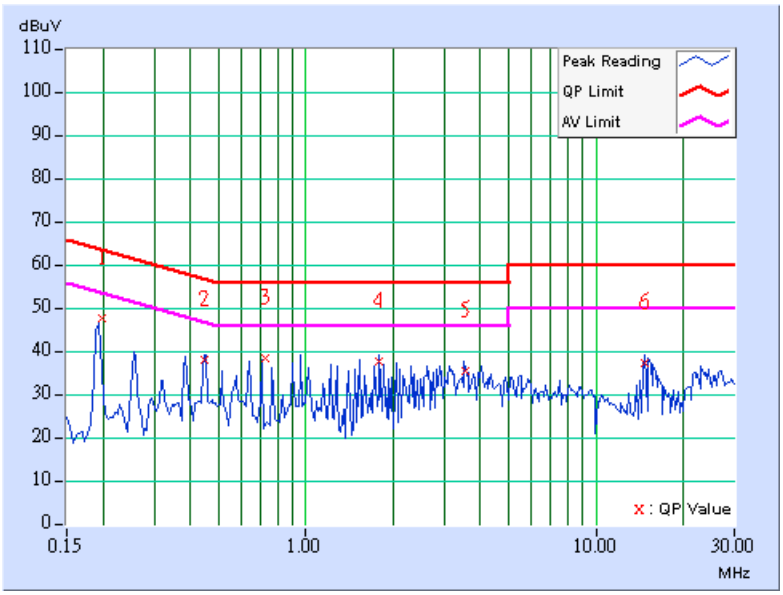
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission 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	1Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.199	0.10	47.01	-	47.11	-	63.63	53.63	-16.52	-
2	0.447	0.10	37.40	-	37.50	-	56.93	46.93	-19.43	-
3	0.725	0.10	37.75	-	37.85	-	56.00	46.00	-18.15	-
4	1.793	0.18	37.20	-	37.38	-	56.00	46.00	-18.62	-
5	3.526	0.33	34.98	-	35.31	-	56.00	46.00	-20.69	-
6	14.805	0.62	36.81	-	37.43	-	60.00	50.00	-22.57	-

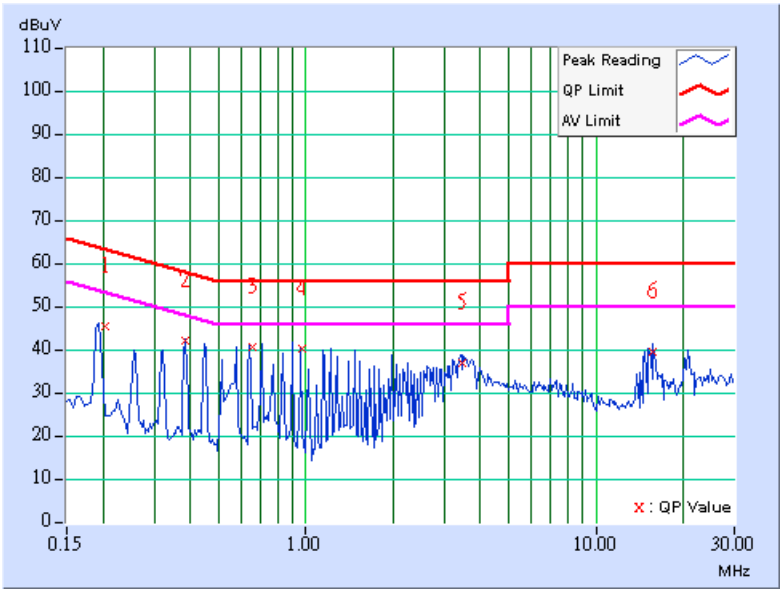
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	PHASE	Line 2
MODULATION TYPE	DBPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	1Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa	TESTED BY	Match Tsui

	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.204	0.10	44.97	-	45.07	-	63.43	53.43	-18.36	-
2	0.384	0.10	41.78	-	41.88	-	58.18	48.18	-16.30	-
3	0.659	0.14	40.03	-	40.17	-	56.00	46.00	-15.83	-
4	0.974	0.20	39.78	-	39.98	-	56.00	46.00	-16.02	-
5	3.475	0.33	36.38	-	36.71	-	56.00	46.00	-19.29	-
6	15.756	0.62	38.85	-	39.47	-	60.00	50.00	-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.



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400 / F(kHz)	300
0.490 ~ 1.705	24000 / F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

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

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESI7	838496/016	Jan. 01, 2007
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100041	Dec. 04, 2006
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Jan. 15, 2007
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-404	Jan. 01, 2007
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170242	Jan. 19, 2007
Preamplifier Agilent	8449B	3008A01960	Nov. 09, 2006
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	219268/4	Dec. 20, 2006
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	230129/4	Dec. 20, 2006
Software ADT.	ADT_Radiated_V5.14	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA
Antenna Tower Controller inn-co GmbH	CO2000	019303	NA
Turn Table ADT.	TT100.	TT93021704	NA
Turn Table Controller ADT.	SC100.	SC93021704	NA

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 4.
3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The IC Site Registration No. is IC4924-4.

4.2.3 TEST PROCEDURES

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

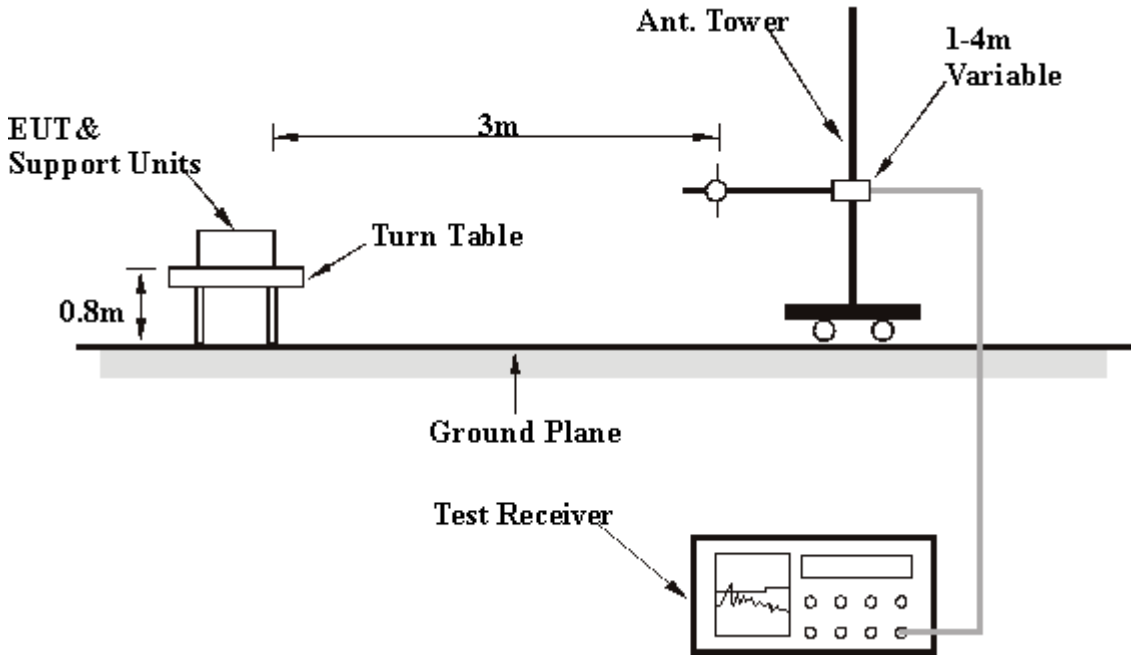
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for 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 item 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	6Mbps	**DETECTOR FUNCTION**	Quasi-Peak
ENVIRONMENTAL CONDITIONS	28deg. C, 72%RH, 991hPa	**TESTED BY**	Lori Chiu

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	27.51 QP	43.50	-15.99	1.00 H	154	14.59	12.91
2	304.09	34.07 QP	46.00	-11.93	1.50 H	340	18.40	15.67
3	337.13	36.19 QP	46.00	-9.81	1.50 H	340	20.08	16.11
4	383.79	40.08 QP	46.00	-5.92	1.00 H	43	22.68	17.40
5	399.34	43.41 QP	46.00	-2.59	1.00 H	154	25.50	17.92
6	436.27	29.52 QP	46.00	-16.48	1.50 H	340	10.85	18.67
7	933.91	29.32 QP	46.00	-16.68	1.50 H	175	0.65	28.66
8	951.40	29.54 QP	46.00	-16.46	1.00 H	352	0.15	29.39

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	337.13	29.89 QP	46.00	-16.11	1.00 V	37	13.78	16.11
2	368.24	32.96 QP	46.00	-13.04	1.00 V	244	16.07	16.89
3	399.34	37.20 QP	46.00	-8.80	1.00 V	61	19.29	17.92
4	436.27	31.70 QP	46.00	-14.30	1.00 V	37	13.02	18.67
5	813.39	29.76 QP	46.00	-16.24	1.00 V	139	3.58	26.18
6	871.70	30.07 QP	46.00	-15.93	1.00 V	331	3.22	26.85
7	906.69	29.74 QP	46.00	-16.26	1.00 V	139	2.34	27.39
8	933.91	33.61 QP	46.00	-12.39	1.00 V	331	4.95	28.66

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	28deg. C, 72%RH, 991hPa	TESTED BY	Lori Chiu

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	304.09	34.40 QP	46.00	-11.60	1.00 H	118	18.73	15.67
2	337.13	37.98 QP	46.00	-8.02	1.00 H	118	21.87	16.11
3	368.24	39.58 QP	46.00	-6.42	1.00 H	52	22.69	16.89
4	399.34	43.95 QP	46.00	-2.05	1.00 H	349	26.03	17.92
5	442.10	32.52 QP	46.00	-13.48	1.50 H	307	13.72	18.79
6	753.13	29.39 QP	46.00	-16.61	2.50 H	160	3.59	25.79
7	945.57	29.42 QP	46.00	-16.58	1.00 H	349	0.21	29.21

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	354.63	34.81 QP	46.00	-11.19	1.00 V	118	18.37	16.44
2	368.24	35.53 QP	46.00	-10.47	1.50 V	289	18.65	16.89
3	399.34	38.54 QP	46.00	-7.46	1.00 V	352	20.62	17.92
4	438.22	34.33 QP	46.00	-11.67	1.00 V	70	15.62	18.71
5	675.37	30.17 QP	46.00	-15.83	1.00 V	154	6.57	23.59
6	813.39	30.93 QP	46.00	-15.07	1.50 V	124	4.75	26.18
7	879.48	30.67 QP	46.00	-15.33	1.00 V	250	3.75	26.91
8	933.91	32.15 QP	46.00	-13.85	1.00 V	178	3.48	28.66
9	945.57	32.02 QP	46.00	-13.98	1.00 V	352	2.81	29.21

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	15Mbps	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	28deg. C, 72%RH, 991hPa	TESTED BY	Lori Chiu

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	74.71	25.04 QP	40.00	-14.96	1.50 H	325	13.83	11.21
2	168.02	27.78 QP	43.50	-15.72	1.00 H	358	14.87	12.91
3	304.09	36.09 QP	46.00	-9.91	1.50 H	49	20.42	15.67
4	337.13	38.99 QP	46.00	-7.01	1.50 H	49	22.88	16.11
5	368.24	40.77 QP	46.00	-5.23	2.00 H	241	23.89	16.89
6	400.27	44.51 QP	46.00	-1.49	1.00 H	313	26.57	17.94
7	442.10	35.27 QP	46.00	-10.73	1.00 H	28	16.48	18.79
8	480.98	34.09 QP	46.00	-11.91	2.00 H	181	14.45	19.64
9	710.36	30.30 QP	46.00	-15.70	1.00 H	232	5.82	24.48
10	739.52	31.75 QP	46.00	-14.25	2.00 H	76	6.32	25.44

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	335.19	32.18 QP	46.00	-13.82	1.00 V	145	16.10	16.08
2	368.24	34.11 QP	46.00	-11.89	1.00 V	145	17.23	16.89
3	399.34	42.16 QP	46.00	-3.84	1.00 V	34	24.24	17.92
4	453.77	30.69 QP	46.00	-15.31	1.00 V	136	11.66	19.04
5	488.76	30.82 QP	46.00	-15.18	1.50 V	148	11.01	19.81
6	813.39	31.10 QP	46.00	-14.90	1.50 V	148	4.92	26.18
7	846.43	30.14 QP	46.00	-15.86	1.00 V	352	3.51	26.63
8	933.91	34.03 QP	46.00	-11.97	1.00 V	136	5.36	28.66
9	957.23	30.29 QP	46.00	-15.71	1.00 V	346	1.04	29.26

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	1Mbps	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	28deg. C, 72%RH, 991hPa	TESTED BY	Lori Chiu

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	27.28 QP	43.50	-16.22	1.00 H	163	14.37	12.91
2	304.09	36.57 QP	46.00	-9.43	2.00 H	157	20.90	15.67
3	337.13	38.46 QP	46.00	-7.54	2.00 H	157	22.35	16.11
4	376.01	43.87 QP	46.00	-2.13	1.50 H	4	26.73	17.14
5	399.34	44.80 QP	46.00	-1.20	1.00 H	163	26.88	17.92
6	438.22	30.40 QP	46.00	-15.60	1.50 H	172	11.68	18.71
7	486.81	31.64 QP	46.00	-14.36	2.00 H	217	11.87	19.77
8	764.79	29.19 QP	46.00	-16.81	1.50 H	172	3.35	25.84
9	955.29	29.20 QP	46.00	-16.80	1.50 H	4	-0.10	29.30

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	337.13	31.36 QP	46.00	-14.64	1.00 V	70	15.24	16.11
2	368.24	35.00 QP	46.00	-11.00	1.00 V	127	18.11	16.89
3	399.34	37.96 QP	46.00	-8.04	1.00 V	61	20.04	17.92
4	817.27	29.38 QP	46.00	-16.62	1.00 V	223	3.15	26.23
5	846.43	29.67 QP	46.00	-16.33	1.00 V	238	3.04	26.63
6	906.69	30.00 QP	46.00	-16.00	1.00 V	127	2.61	27.39
7	933.91	33.13 QP	46.00	-12.87	1.00 V	124	4.47	28.66

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	1Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%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	2386.00	53.11 PK	74.00	-20.89	1.17 H	204	21.02	32.09
1	2386.00	49.34 AV	54.00	-4.66	1.17 H	204	17.25	32.09
2	*2412.00	107.09 PK			1.17 H	204	74.91	32.18
2	*2412.00	103.32 AV			1.17 H	204	71.14	32.18
3	4824.00	51.81 PK	74.00	-22.19	1.00 H	153	13.18	38.63
3	4824.00	46.16 AV	54.00	-7.84	1.00 H	153	7.53	38.63
4	7236.00	56.41 PK	74.00	-17.59	1.21 H	153	11.12	45.29
4	7236.00	46.36 AV	54.00	-7.64	1.21 H	153	1.07	45.29

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	2386.00	61.59 PK	74.00	-12.41	1.64 V	8	29.50	32.09
1	2386.00	52.81 AV	54.00	-1.19	1.64 V	8	20.72	32.09
2	*2412.00	110.38 PK			1.36 V	351	78.20	32.18
2	*2412.00	106.79 AV			1.36 V	351	74.61	32.18
3	4824.00	56.27 PK	74.00	-17.73	1.00 V	0	17.64	38.63
3	4824.00	52.70 AV	54.00	-1.30	1.00 V	0	14.07	38.63
4	7236.00	58.30 PK	74.00	-15.70	1.32 V	200	13.01	45.29
4	7236.00	49.52 AV	54.00	-4.48	1.32 V	200	4.23	45.29

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 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	1Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%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	*2437.00	110.21 PK			1.15 H	205	77.94	32.27
1	*2437.00	106.42 AV			1.15 H	205	74.15	32.27
2	4874.00	52.19 PK	74.00	-21.81	1.03 H	164	13.42	38.77
2	4874.00	46.52 AV	54.00	-7.48	1.03 H	164	7.75	38.77
3	7311.00	56.64 PK	74.00	-17.36	1.20 H	144	11.15	45.49
3	7311.00	46.58 AV	54.00	-7.42	1.20 H	144	1.09	45.49

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	113.56 PK			1.60 V	300	81.29	32.27
1	*2437.00	109.82 AV			1.60 V	300	77.55	32.27
2	4874.00	56.33 PK	74.00	-17.67	1.44 V	206	17.56	38.77
2	4874.00	52.80 AV	54.00	-1.20	1.44 V	206	14.03	38.77
3	7311.00	58.68 PK	74.00	-15.32	1.70 V	172	13.19	45.49
3	7311.00	50.75 AV	54.00	-3.25	1.70 V	172	5.26	45.49

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.
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	1Mbps	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%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	*2462.00	108.16 PK			1.16 H	205	75.80	32.36
1	*2462.00	104.45 AV			1.16 H	205	72.09	32.36
2	2483.50	53.47 PK	74.00	-20.53	1.16 H	205	21.03	32.44
2	2483.50	49.76 AV	54.00	-4.24	1.16 H	205	17.32	32.44
3	4924.00	51.72 PK	74.00	-22.28	1.08 H	264	12.82	38.90
3	4924.00	46.03 AV	54.00	-7.97	1.08 H	264	7.13	38.90
4	7386.00	56.62 PK	74.00	-17.38	1.01 H	25	10.93	45.69
4	7386.00	46.49 AV	54.00	-7.51	1.01 H	25	0.80	45.69

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	*2462.00	111.20 PK			1.32 V	300	78.84	32.36
1	*2462.00	107.43 AV			1.32 V	300	75.07	32.36
2	2483.50	61.67 PK	74.00	-12.33	1.31 V	27	29.23	32.44
2	2483.50	52.74 AV	54.00	-1.26	1.31 V	27	20.30	32.44
3	4924.00	56.81 PK	74.00	-17.19	1.00 V	218	17.91	38.90
3	**4924.00**	**52.88 AV**	**54.00**	**-1.12**	**1.00 V**	**218**	**13.98**	**38.90**
4	7386.00	58.56 PK	74.00	-15.44	1.00 V	178	12.87	45.69
4	7386.00	50.66 AV	54.00	-3.34	1.00 V	178	4.96	45.69

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	6Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28deg. C, 72%RH, 991hPa	TESTED BY	Lori Chiu

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	59.91 PK	74.00	-14.09	1.07 H	136	28.63	31.28
1	2360.00	48.10 AV	54.00	-5.90	1.07 H	136	16.82	31.28
2	2390.00	62.98 PK	74.00	-11.02	1.06 H	133	31.59	31.39
2	2390.00	50.60 AV	54.00	-3.40	1.06 H	133	19.21	31.39
3	*2412.00	107.37 PK			1.07 H	133	75.91	31.46
3	*2412.00	98.19 AV			1.07 H	133	66.73	31.46
4	2487.00	60.79 PK	74.00	-13.21	1.08 H	140	29.08	31.71
4	2487.00	49.25 AV	54.00	-4.75	1.08 H	140	17.54	31.71

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	2360.00	59.89 PK	74.00	-14.11	1.06 V	257	28.61	31.28
1	2360.00	49.65 AV	54.00	-4.35	1.06 V	257	18.37	31.28
2	2390.00	65.37 PK	74.00	-8.63	1.06 V	258	33.98	31.39
2	2390.00	52.24 AV	54.00	-1.76	1.06 V	258	20.85	31.39
3	*2412.00	110.03 PK			1.06 V	29	78.57	31.46
3	*2412.00	100.41 AV			1.06 V	29	68.95	31.46
4	2487.00	60.23 PK	74.00	-13.77	1.27 V	211	28.52	31.71
4	2487.00	50.84 AV	54.00	-3.16	1.27 V	211	19.13	31.71
5	4824.00	52.08 PK	74.00	-21.92	1.39 V	183	14.95	37.13
5	4824.00	40.31 AV	54.00	-13.69	1.39 V	183	3.18	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	6Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28deg. C, 72%RH, 991hPa	TESTED BY	Lori Chiu

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	59.64 PK	74.00	-14.36	1.10 H	156	28.36	31.28
1	2360.00	49.80 AV	54.00	-4.20	1.10 H	156	18.52	31.28
2	2382.00	60.43 PK	74.00	-13.57	1.13 H	155	29.07	31.36
2	2382.00	50.84 AV	54.00	-3.16	1.13 H	155	19.48	31.36
3	*2437.00	141.59 PK			1.12 H	156	110.05	31.54
3	*2437.00	133.03 AV			1.12 H	156	101.49	31.54

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	2360.00	61.22 PK	74.00	-12.78	1.05 V	48	29.94	31.28
1	2360.00	50.48 AV	54.00	-3.52	1.05 V	48	19.20	31.28
2	2382.00	61.38 PK	74.00	-12.62	1.04 V	258	30.02	31.36
2	2382.00	51.48 AV	54.00	-2.52	1.04 V	258	20.12	31.36
3	*2437.00	114.53 PK			1.05 V	29	82.99	31.54
3	*2437.00	104.46 AV			1.05 V	29	72.92	31.54
4	4874.00	54.25 PK	74.00	-19.75	1.41 V	167	16.96	37.29
4	4874.00	42.13 AV	54.00	-11.87	1.41 V	167	4.84	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	6Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28deg. C, 72%RH, 991hPa	TESTED BY	Lori Chiu

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	60.13 PK	74.00	-13.87	1.10 H	145	28.85	31.28
1	2360.00	48.22 AV	54.00	-5.78	1.10 H	145	16.94	31.28
2	*2462.00	107.63 PK			1.04 H	136	76.01	31.62
2	*2462.00	98.48 AV			1.04 H	136	66.86	31.62
3	2483.50	63.52 PK	74.00	-10.48	1.06 H	138	31.82	31.70
3	2483.50	51.26 AV	54.00	-2.74	1.06 H	138	19.56	31.70

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2360.00	58.48 PK	74.00	-15.52	1.61 V	204	27.20	31.28
1	2360.00	49.01 AV	54.00	-4.99	1.61 V	204	17.73	31.28
2	*2462.00	110.84 PK			1.25 V	226	79.22	31.62
2	*2462.00	100.96 AV			1.25 V	226	69.34	31.62
3	2483.50	64.53 PK	74.00	-9.47	1.07 V	27	32.83	31.70
3	2483.50	52.77 AV	54.00	-1.23	1.07 V	27	21.07	31.70
4	4824.00	52.19 PK	74.00	-21.81	1.50 V	248	15.06	37.13
4	4824.00	40.35 AV	54.00	-13.65	1.50 V	248	3.22	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.

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	28deg. C, 72%RH, 991hPa	TESTED BY	Lori Chiu

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	59.55 PK	74.00	-14.45	1.06 H	136	28.17	31.38
1	2389.00	49.61 AV	54.00	-4.39	1.06 H	136	18.23	31.38
2	*2412.00	105.62 PK			1.33 H	134	74.16	31.46
2	*2412.00	95.77 AV			1.33 H	134	64.31	31.46
3	4824.00	49.70 PK	74.00	-24.30	1.22 H	32	12.57	37.13
3	4824.00	35.58 AV	54.00	-18.42	1.22 H	32	-1.55	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	2360.00	59.32 PK	74.00	-14.68	1.07 V	259	28.04	31.28
1	2360.00	49.30 AV	54.00	-4.70	1.07 V	259	18.02	31.28
2	2389.00	69.17 PK	74.00	-4.83	1.61 V	75	37.79	31.38
2	2389.00	52.52 AV	54.00	-1.48	1.61 V	75	21.14	31.38
3	*2412.00	107.65 PK			1.05 V	28	76.19	31.46
3	*2412.00	98.52 AV			1.05 V	28	67.06	31.46
4	4824.00	52.57 PK	74.00	-21.43	1.22 V	216	15.44	37.13
4	4824.00	38.88 AV	54.00	-15.12	1.22 V	216	1.75	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	28deg. C, 72%RH, 991hPa	TESTED BY	Lori Chiu

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	56.92 PK	74.00	-17.08	1.26 H	233	25.64	31.28
1	2360.00	46.79 AV	54.00	-7.21	1.26 H	233	15.51	31.28
2	*2437.00	109.58 PK			1.25 H	232	78.04	31.54
2	*2437.00	100.14 AV			1.25 H	232	68.60	31.54
3	4874.00	51.24 PK	74.00	-22.76	1.32 H	125	13.95	37.29
3	4874.00	38.59 AV	54.00	-15.41	1.32 H	125	1.30	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	2360.00	60.99 PK	74.00	-13.01	1.06 V	258	29.71	31.28
1	2360.00	50.20 AV	54.00	-3.80	1.06 V	258	18.92	31.28
2	*2437.00	112.62 PK			1.05 V	27	81.08	31.54
2	*2437.00	102.89 AV			1.05 V	27	71.35	31.54
3	4874.00	55.25 PK	74.00	-18.75	1.18 V	336	17.96	37.29
3	4874.00	41.18 AV	54.00	-12.82	1.18 V	336	3.89	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	28deg. C, 72%RH, 991hPa	TESTED BY	Lori Chiu

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	105.78 PK			1.10 H	146	74.16	31.62
1	*2462.00	95.82 AV			1.10 H	146	64.20	31.62
2	2484.00	59.50 PK	74.00	-14.50	1.11 H	146	27.80	31.70
2	2484.00	49.24 AV	54.00	-4.76	1.11 H	146	17.54	31.70
3	4924.00	50.65 PK	74.00	-23.35	1.18 H	65	13.21	37.44
3	4924.00	36.15 AV	54.00	-17.85	1.18 H	65	-1.29	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	2360.00	60.23 PK	74.00	-13.77	1.26 V	169	28.95	31.28
1	2360.00	49.85 AV	54.00	-4.15	1.26 V	169	18.57	31.28
2	*2462.00	108.59 PK			1.29 V	27	76.97	31.62
2	*2462.00	99.60 AV			1.29 V	27	67.98	31.62
3	2484.00	66.43 PK	74.00	-7.57	1.04 V	28	34.73	31.70
3	2484.00	52.85 AV	54.00	-1.15	1.04 V	28	21.15	31.70
4	4924.00	53.11 PK	74.00	-20.89	1.25 V	220	15.67	37.44
4	4924.00	39.46 AV	54.00	-14.54	1.25 V	220	2.02	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	15Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28deg. C, 72%RH, 991hPa	TESTED BY	Lori Chiu

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	62.16 PK	74.00	-11.84	1.07 H	136	30.77	31.39
1	2390.00	50.92 AV	54.00	-3.08	1.07 H	136	19.53	31.39
2	*2422.00	100.76 PK			1.06 H	137	69.27	31.49
2	*2422.00	91.31 AV			1.06 H	137	59.82	31.49
3	4844.00	45.13 PK	74.00	-28.87	1.00 H	224	7.94	37.19
3	4844.00	33.68 AV	54.00	-20.32	1.00 H	224	-3.51	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	2360.00	58.98 PK	74.00	-15.02	1.08 V	258	27.70	31.28
1	2360.00	48.29 AV	54.00	-5.71	1.08 V	258	17.01	31.28
2	2390.00	67.01 PK	74.00	-6.99	1.09 V	257	35.62	31.39
2	2390.00	52.51 AV	54.00	-1.49	1.09 V	257	21.12	31.39
3	*2422.00	102.07 PK			1.60 V	116	70.58	31.49
3	*2422.00	93.48 AV			1.60 V	116	61.99	31.49
4	3256.00	49.22 PK	82.07	-32.85	1.03 V	8	16.01	33.20
4	3256.00	43.78 AV	73.48	-29.70	1.03 V	8	10.57	33.20
5	4844.00	45.55 PK	74.00	-28.45	1.04 V	221	8.36	37.19
5	4844.00	34.00 AV	54.00	-20.00	1.04 V	221	-3.19	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	15Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28deg. C, 72%RH, 991hPa	TESTED BY	Lori Chiu

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	61.64 PK	74.00	-12.36	1.38 H	129	30.26	31.38
1	2389.00	50.16 AV	54.00	-3.84	1.38 H	129	18.78	31.38
2	*2437.00	105.57 PK			1.05 H	136	74.03	31.54
2	*2437.00	95.58 AV			1.05 H	136	64.04	31.54
3	2484.00	62.80 PK	74.00	-11.20	1.12 H	135	31.10	31.70
3	2484.00	50.62 AV	54.00	-3.38	1.12 H	135	18.92	31.70
4	4874.00	45.68 PK	74.00	-28.32	1.35 H	257	8.39	37.29
4	4874.00	33.06 AV	54.00	-20.94	1.35 H	257	-4.23	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	2360.00	59.05 PK	74.00	-14.95	1.04 V	279	27.77	31.28
1	2360.00	48.79 AV	54.00	-5.21	1.04 V	279	17.51	31.28
2	2389.00	63.29 PK	74.00	-10.71	1.03 V	27	31.91	31.38
2	2389.00	51.25 AV	54.00	-2.75	1.03 V	27	19.87	31.38
3	*2437.00	107.31 PK			1.57 V	76	75.77	31.54
3	*2437.00	98.05 AV			1.57 V	76	66.51	31.54
4	2484.00	63.46 PK	74.00	-10.54	1.02 V	75	31.76	31.70
4	2484.00	51.63 AV	54.00	-2.37	1.02 V	75	19.93	31.70
5	3256.00	50.27 PK	87.31	-37.04	1.11 V	232	17.07	33.20
5	3256.00	44.56 AV	78.05	-33.49	1.11 V	232	11.36	33.20
6	4874.00	48.07 PK	74.00	-25.93	1.29 V	143	10.78	37.29
6	4874.00	35.72 AV	54.00	-18.28	1.29 V	143	-1.57	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	15Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28deg. C, 72%RH, 991hPa	TESTED BY	Lori Chiu

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	99.25 PK			1.05 H	133	67.66	31.59
1	*2452.00	90.05 AV			1.05 H	133	58.46	31.59
2	2492.00	59.37 PK	74.00	-14.63	1.00 H	133	27.65	31.72
2	2492.00	47.90 AV	54.00	-6.10	1.00 H	133	16.18	31.72
3	4904.00	45.25 PK	74.00	-28.75	1.11 H	23	7.87	37.38
3	4904.00	33.32 AV	54.00	-20.68	1.11 H	23	-4.06	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	2360.00	57.78 PK	74.00	-16.22	1.07 V	214	26.50	31.28
1	2360.00	47.40 AV	54.00	-6.60	1.07 V	214	16.12	31.28
2	*2452.00	101.92 PK			1.04 V	212	70.33	31.59
2	*2452.00	93.21 AV			1.04 V	212	61.62	31.59
3	2492.00	61.84 PK	74.00	-12.16	1.03 V	211	30.12	31.72
3	2492.00	52.60 AV	54.00	-1.40	1.03 V	211	20.88	31.72
4	3252.00	48.57 PK	81.92	-33.35	1.10 V	235	15.38	33.19
4	3252.00	43.64 AV	73.21	-29.57	1.10 V	235	10.45	33.19
5	4904.00	45.97 PK	74.00	-28.03	1.08 V	120	8.59	37.38
5	4904.00	33.82 AV	54.00	-20.18	1.08 V	120	-3.56	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	1Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%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	2390.00	55.18 PK	74.00	-18.82	1.42 H	211	23.08	32.10
1	2390.00	45.52 AV	54.00	-8.48	1.42 H	211	13.42	32.10
2	*2431.00	102.69 PK			1.42 H	211	70.44	32.25
2	*2431.00	99.03 AV			1.42 H	211	66.78	32.25
3	4864.00	52.18 PK	74.00	-21.82	1.08 H	258	13.44	38.74
3	4864.00	47.16 AV	54.00	-6.84	1.08 H	258	8.42	38.74
4	7295.00	55.52 PK	74.00	-18.48	1.10 H	204	10.07	45.45
4	7295.00	46.40 AV	54.00	-7.60	1.10 H	204	0.95	45.45

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	62.52 PK	74.00	-11.48	1.07 V	104	30.42	32.10
1	2390.00	52.69 AV	54.00	-1.31	1.07 V	104	20.59	32.10
2	*2431.00	109.80 PK			1.07 V	97	77.55	32.25
2	*2431.00	106.20 AV			1.07 V	97	73.95	32.25
3	4864.00	53.11 PK	74.00	-20.89	1.21 V	208	14.37	38.74
3	4864.00	47.62 AV	54.00	-6.38	1.21 V	208	8.88	38.74
4	7295.00	57.16 PK	74.00	-16.84	1.21 V	84	11.71	45.45
4	7295.00	49.62 AV	54.00	-4.38	1.21 V	84	4.17	45.45

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	1Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%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	*2447.00	106.76 PK			1.44 H	213	74.45	32.31
1	*2447.00	103.20 AV			1.44 H	213	70.89	32.31
2	4894.00	53.35 PK	74.00	-20.65	1.30 H	216	14.53	38.82
2	4894.00	48.37 AV	54.00	-5.63	1.30 H	216	9.55	38.82
3	7340.00	56.62 PK	74.00	-17.38	1.07 H	212	11.05	45.57
3	7340.00	47.53 AV	54.00	-6.47	1.07 H	212	1.96	45.57

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	2363.00	61.42 PK	74.00	-12.58	1.14 V	275	29.42	32.00
1	2363.00	52.72 AV	54.00	-1.28	1.14 V	275	20.72	32.00
2	*2447.00	113.54 PK			1.07 V	97	81.23	32.31
2	*2447.00	110.09 AV			1.07 V	97	77.78	32.31
3	4894.00	56.80 PK	74.00	-17.20	1.11 V	217	17.98	38.82
3	4894.00	52.86 AV	54.00	-1.14	1.11 V	217	14.04	38.82
4	7340.00	59.38 PK	74.00	-14.62	1.32 V	196	13.81	45.57
4	7340.00	51.77 AV	54.00	-2.23	1.32 V	196	6.20	45.57

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	1Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%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	*2442.00	102.11 PK			1.40 H	208	69.82	32.29
1	*2442.00	98.64 AV			1.40 H	208	66.35	32.29
2	2483.50	55.04 PK	74.00	-18.96	1.40 H	208	22.60	32.44
2	2483.50	45.42 AV	54.00	-8.58	1.40 H	208	12.98	32.44
3	4884.00	52.26 PK	74.00	-21.74	1.10 H	241	13.46	38.80
3	4884.00	47.23 AV	54.00	-6.77	1.10 H	241	8.43	38.80
4	7236.00	55.41 PK	82.11	-26.70	1.07 H	198	10.12	45.29
4	7236.00	45.25 AV	78.64	-33.39	1.07 H	198	-0.04	45.29

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	*2442.00	109.19 PK			1.06 V	100	76.90	32.29
1	*2442.00	105.12 AV			1.06 V	100	72.83	32.29
2	2483.50	63.20 PK	74.00	-10.80	1.07 V	102	30.76	32.44
2	2483.50	52.84 AV	54.00	-1.16	1.07 V	102	20.40	32.44
3	4884.00	53.25 PK	74.00	-20.75	1.16 V	234	14.45	38.80
3	4884.00	47.68 AV	54.00	-6.32	1.16 V	234	8.88	38.80
4	7326.00	57.24 PK	89.19	-31.95	1.19 V	48	11.71	45.53
4	7326.00	49.75 AV	85.12	-35.37	1.19 V	48	4.22	45.53

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	FSP40	100041	Dec. 04, 2006

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

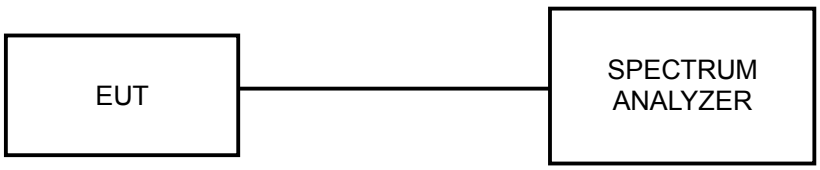
4.3.3 TEST PROCEDURE

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.

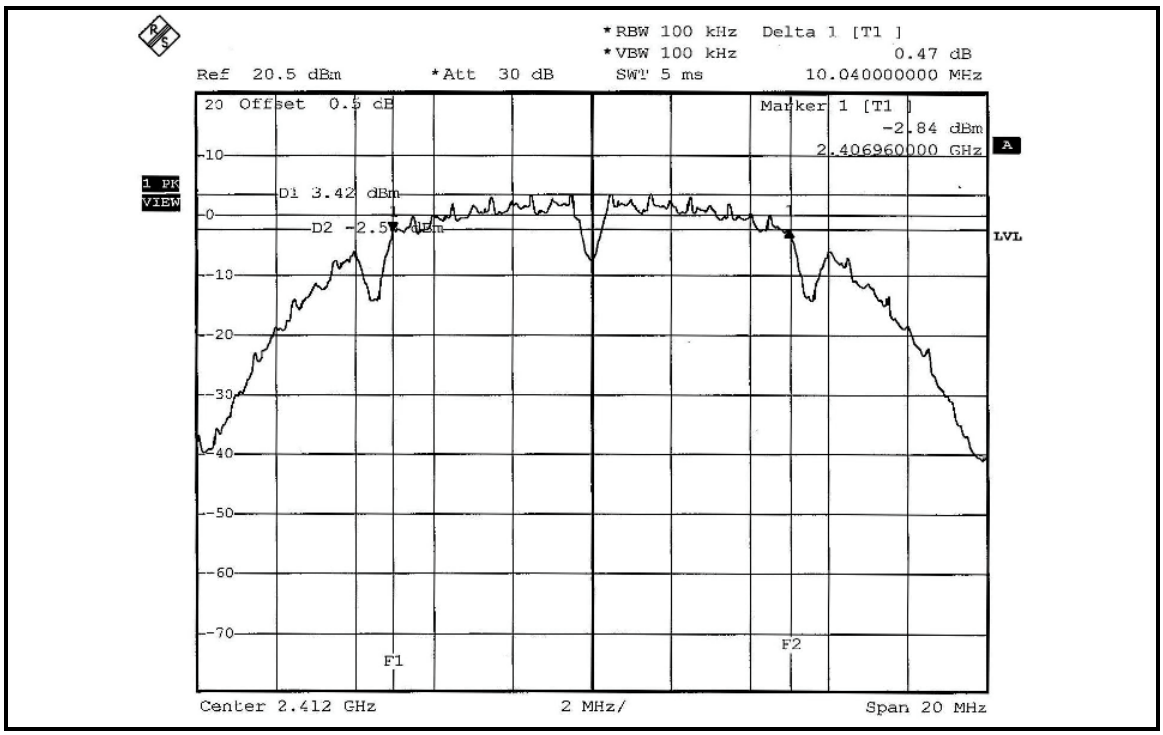
4.3.7 TEST RESULTS

802.11b DSSS MODULATION:

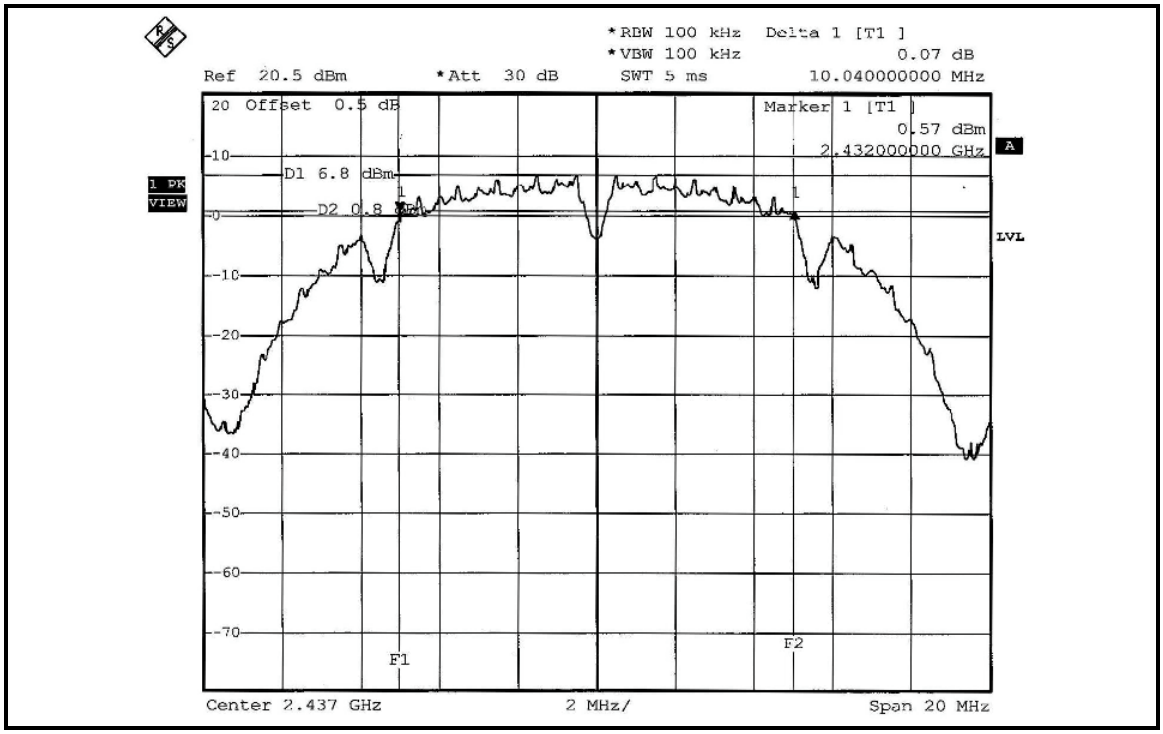
MODULATION TYPE	DBPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 65%RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	10.04	10.00	0.5	PASS
6	2437	10.04	10.00	0.5	PASS
11	2462	10.00	10.12	0.5	PASS

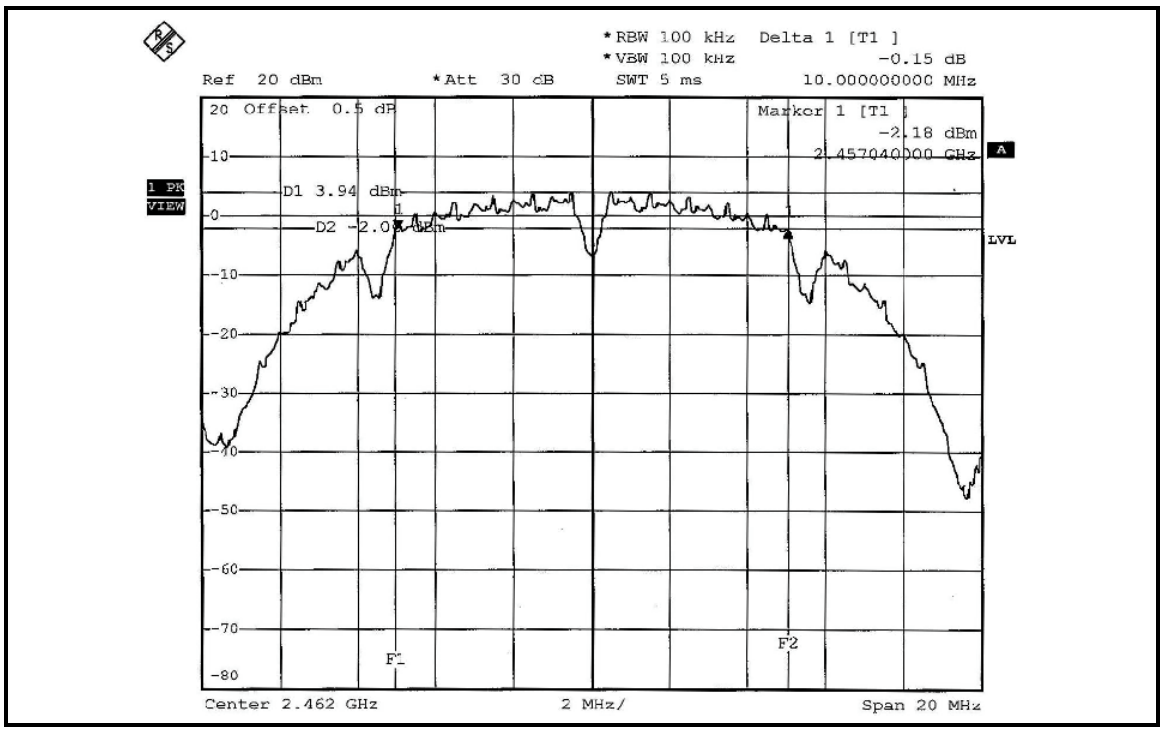
FOR CHAIN 0: CH 1



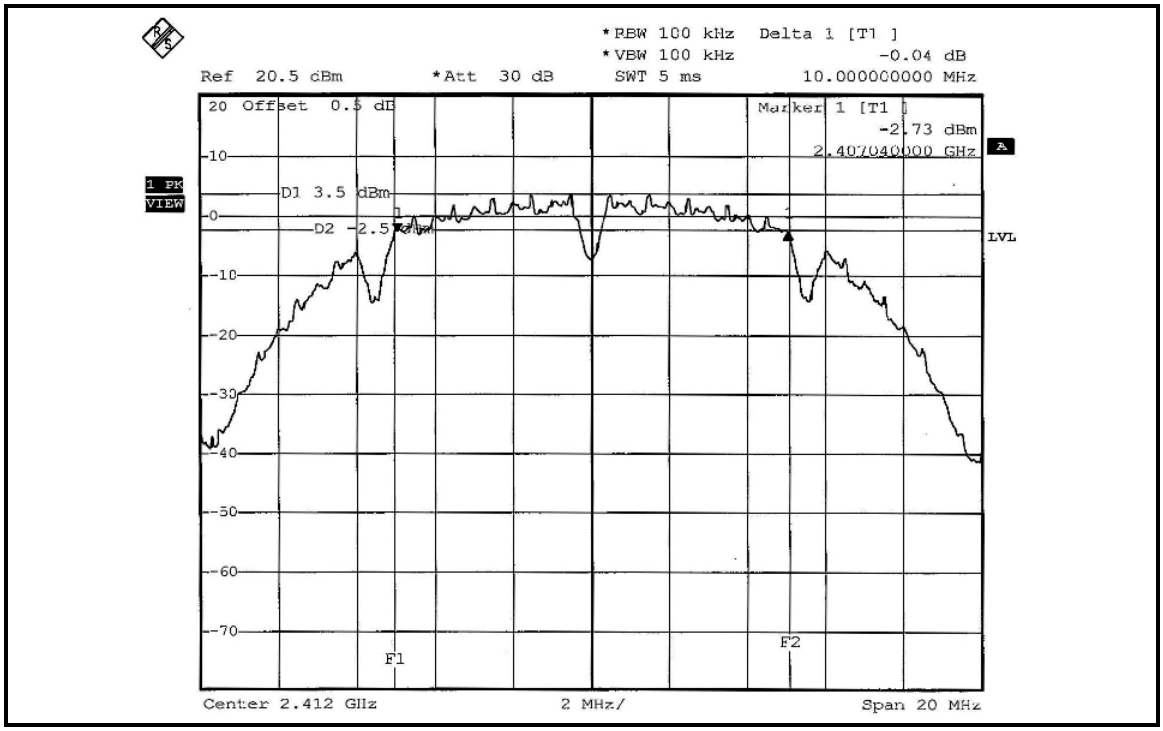
CH 6


*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
0.07 dB
10.040000000 MHz
Ref 20.5 dBm
*Att 30 dB
20 Offset 0.5 dB
Marker 1 [T1]
0.57 dBm
2.432000000 GHz
D1 6.8 dBm
D2 0.8 dBm
1 PK VIEW
A
LVL
F1
F2
Center 2.437 GHz
2 MHz/
Span 20 MHz

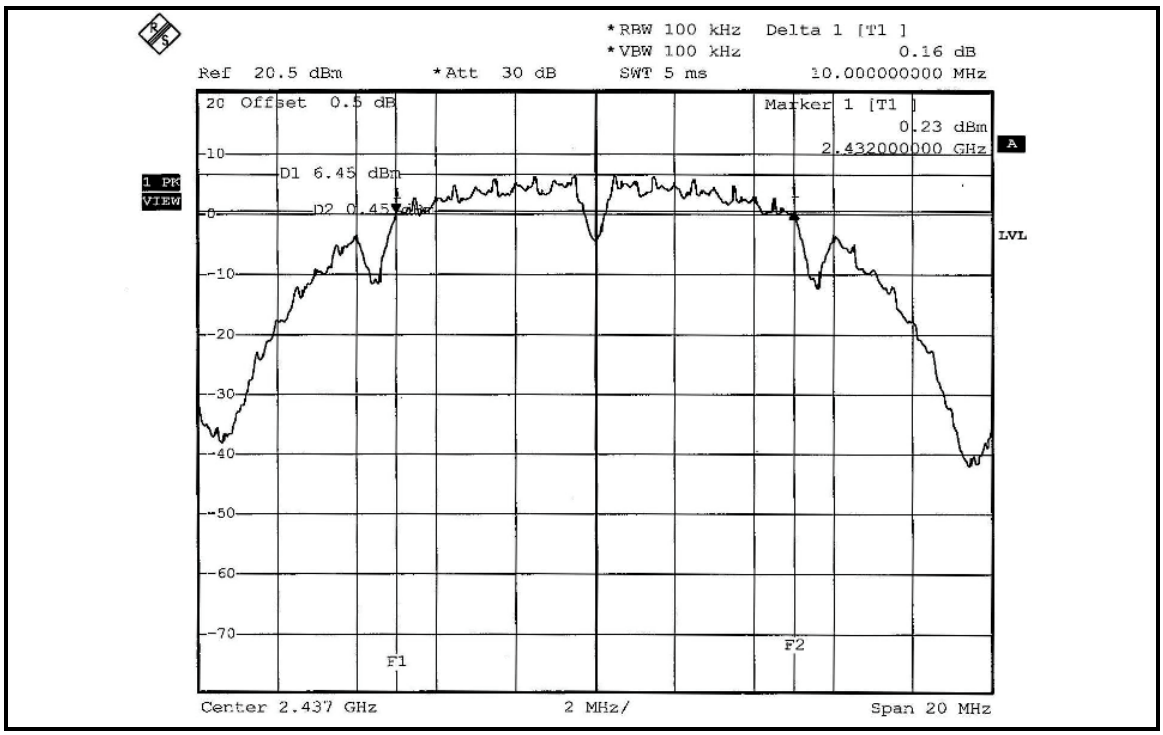
CH 11


*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
-0.15 dB
10.000000000 MHz
Ref 20 dBm
*Att 30 dB
20 Offset 0.5 dB
Marker 1 [T1]
-2.18 dBm
2.457040000 GHz
D1 3.94 dBm
D2 -2.06 dBm
1 PK VIEW
A
LVL
F1
F2
Center 2.462 GHz
2 MHz/
Span 20 MHz

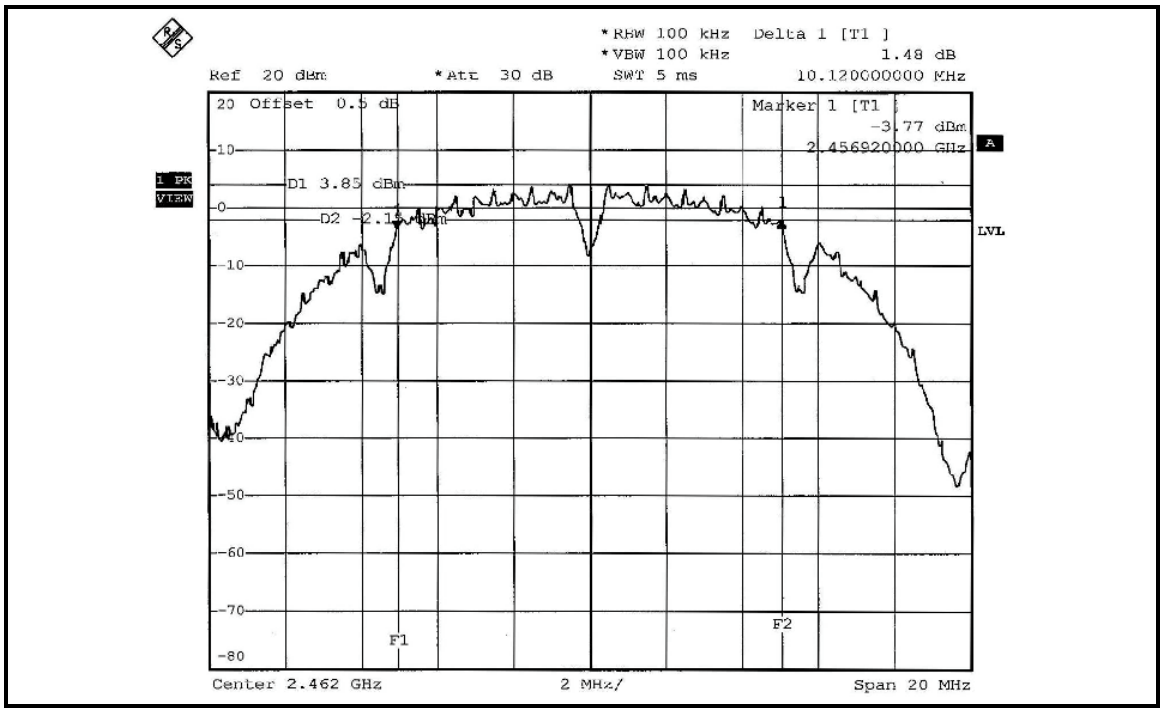
FOR CHAIN 1: CH 1



CH 6



CH 11

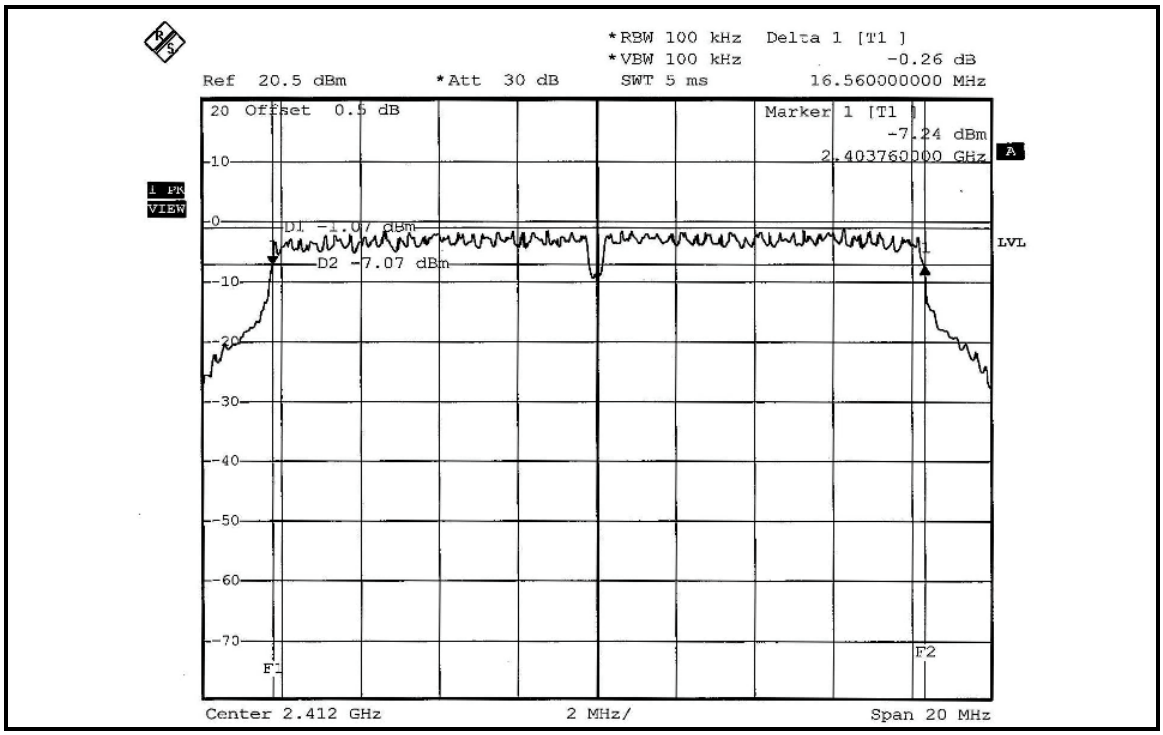

*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
1.48 dB
10.120000000 MHz
Ref 20 dBm
*Att 30 dB
20 Offset 0.5 dB
Marker 1 [T1]
-3.77 dBm
2.456920000 GHz
D1 3.85 dBm
D2 -2.15 dBm
LVL
F1
F2
Center 2.462 GHz
2 MHz/
Span 20 MHz

802.11g OFDM MODULATION:

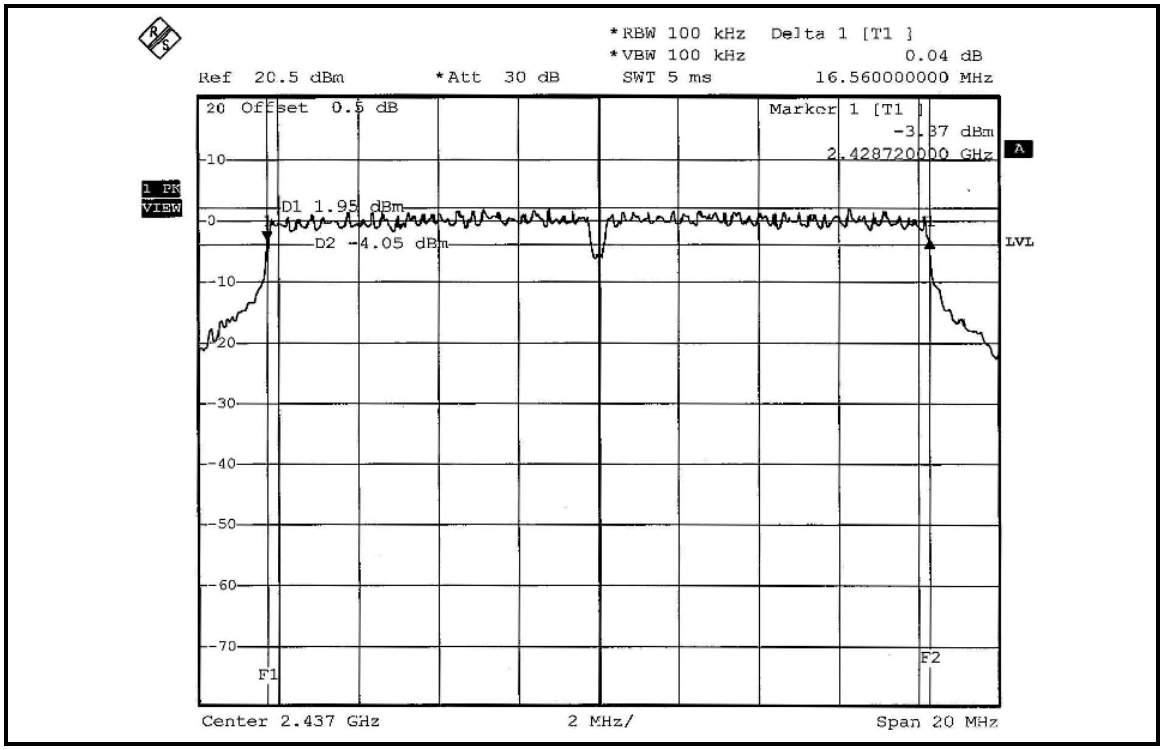
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 65%RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	16.56	16.52	0.5	PASS
6	2437	16.56	16.56	0.5	PASS
11	2462	16.56	16.56	0.5	PASS

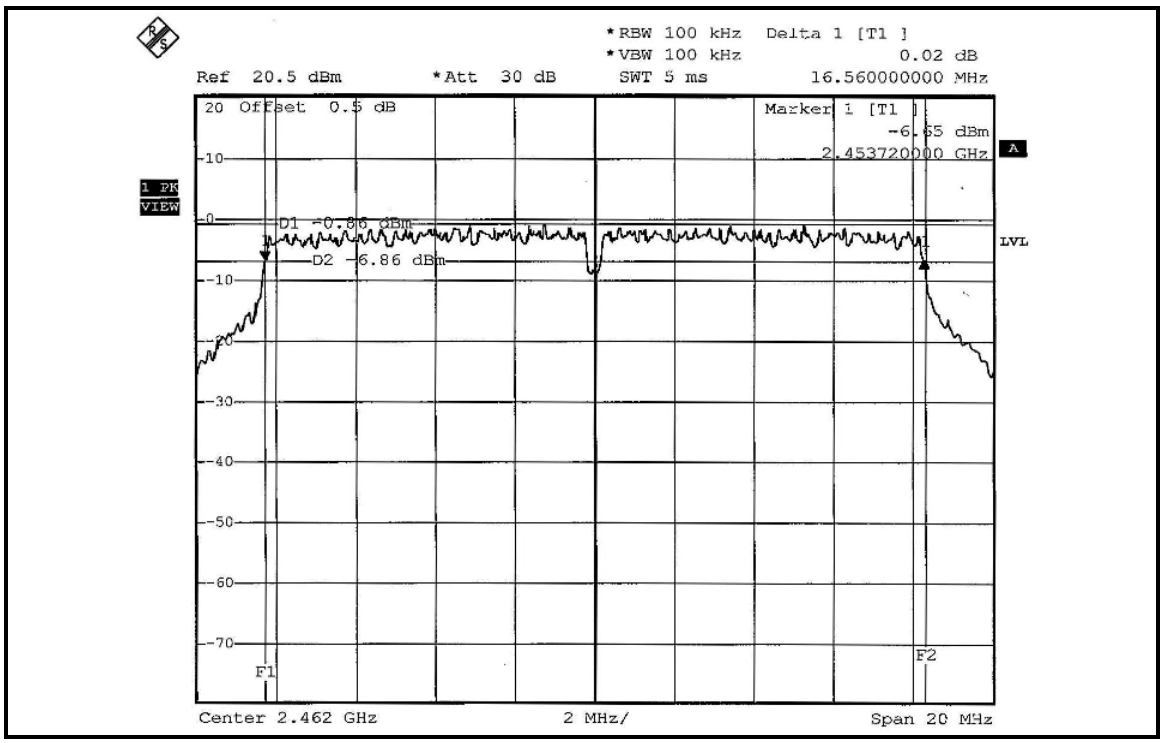
FOR CHAIN 0: CH 1



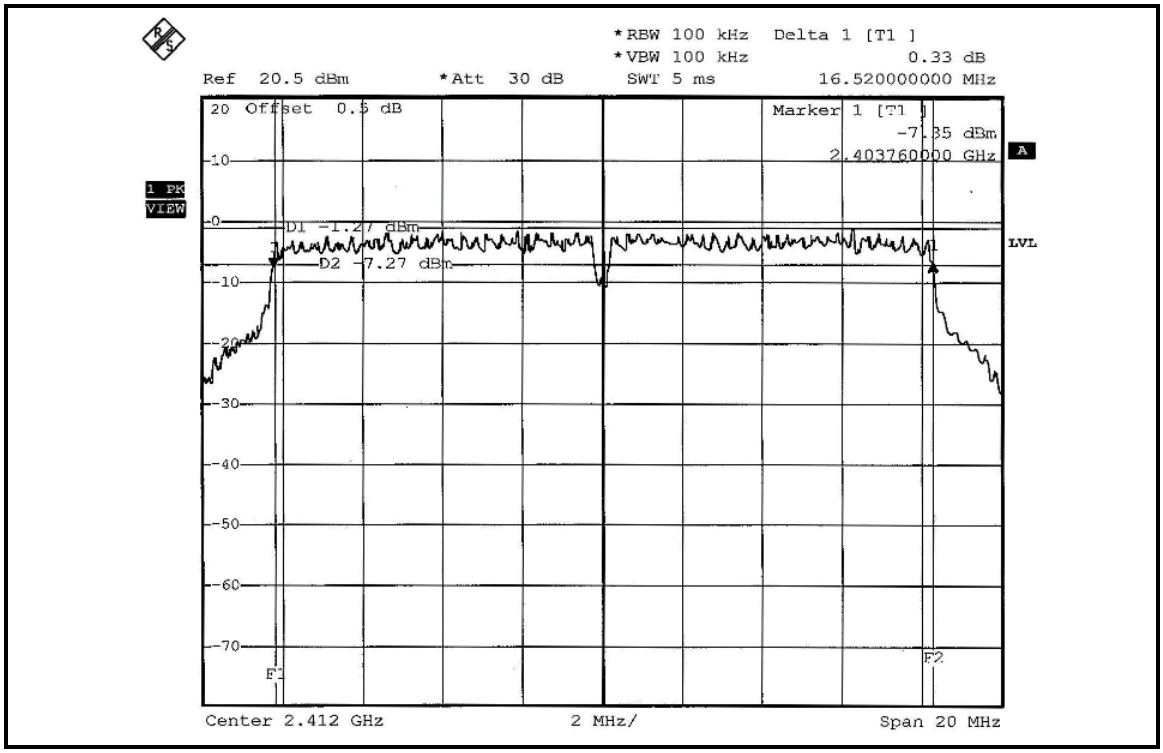
CH 6


*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
0.04 dB
16.560000000 MHz
Ref 20.5 dBm
*Att 30 dB
20 Offset 0.5 dB
Marker 1 [T1]
-3.87 dBm
2.428720000 GHz
1 PK VIEW
D1 1.95 dBm
D2 -4.05 dBm
LVL
F1
F2
Center 2.437 GHz
2 MHz/
Span 20 MHz

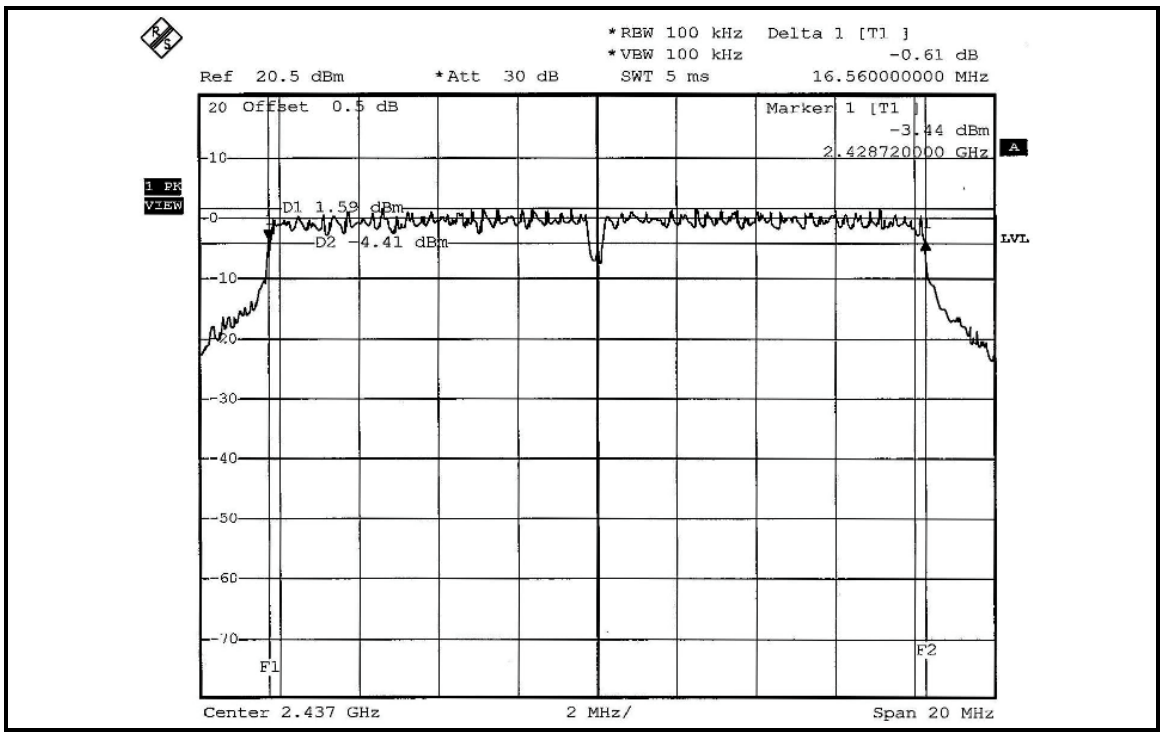
CH 11


*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
0.02 dB
16.560000000 MHz
Ref 20.5 dBm
*Att 30 dB
20 Offset 0.5 dB
Marker 1 [T1]
-6.65 dBm
2.453720000 GHz
1 PK VIEW
D1 -0.86 dBm
D2 -6.86 dBm
LVL
F1
F2
Center 2.462 GHz
2 MHz/
Span 20 MHz

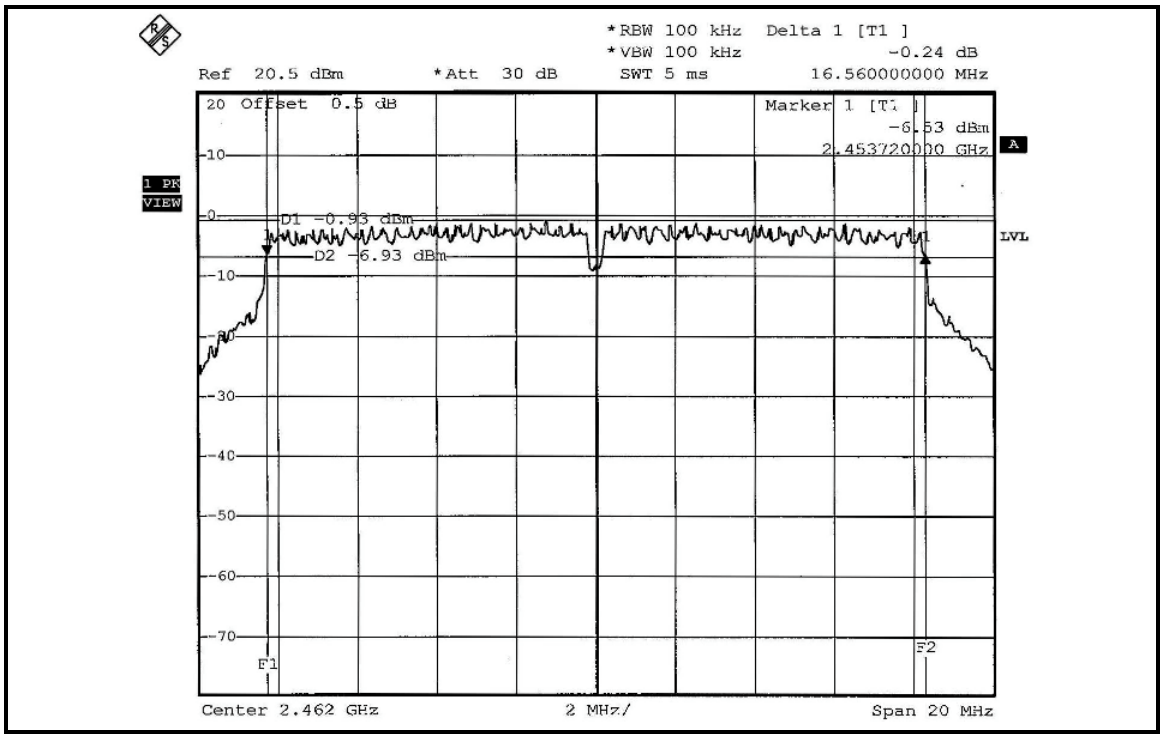
FOR CHAIN 1: CH 1



CH 6



CH 11

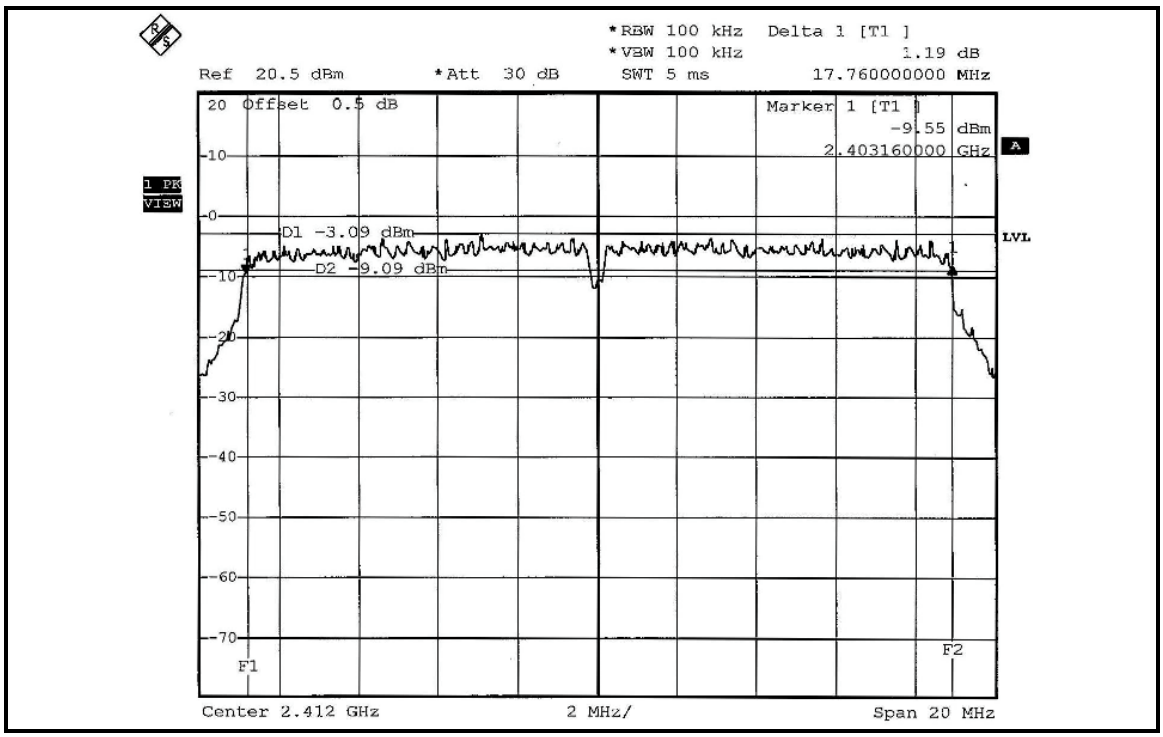

*RBW 100 kHz
Delta 1 [T1]
*VBW 100 kHz
-0.24 dB
Ref 20.5 dBm
*Att 30 dB
SWT 5 ms
16.560000000 MHz
20 Offset 0.5 dB
Marker 1 [T1]
-6.53 dBm
2.453720000 GHz
1 PK
VIEW
D1 -0.93 dBm
D2 -6.93 dBm
LVL
F1
F2
Center 2.462 GHz
2 MHz/
Span 20 MHz

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

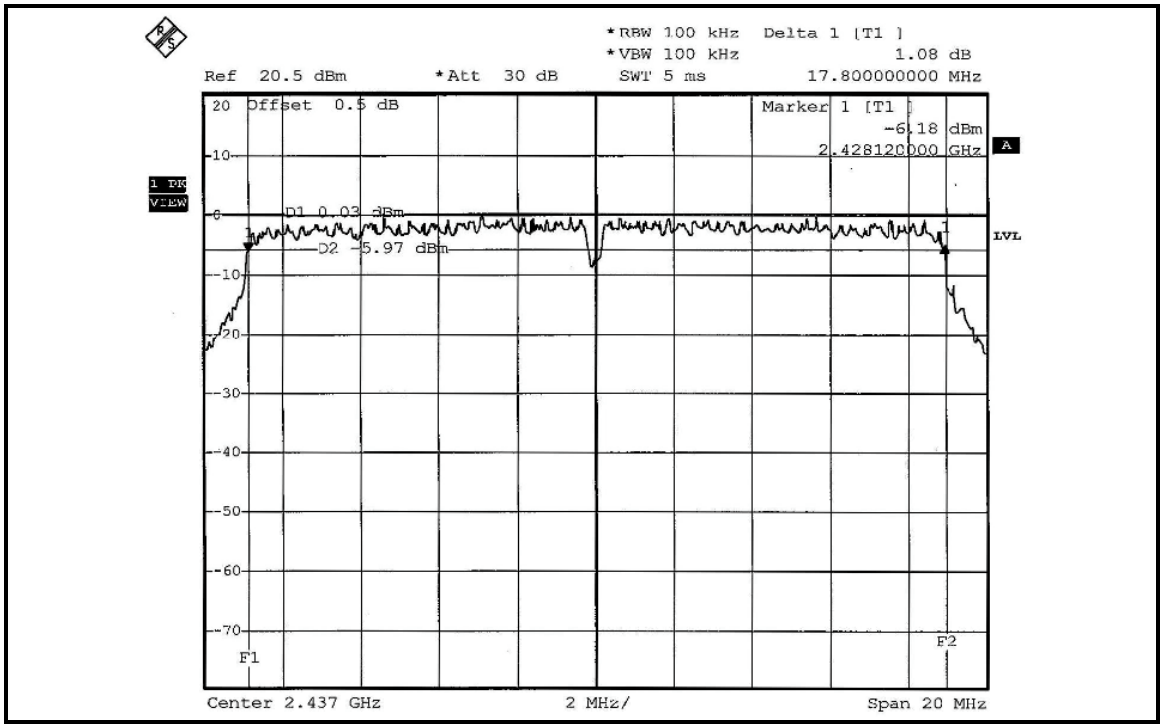
MODULATION TYPE	BPSK	**TRANSFER RATE**	7.2Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	**ENVIRONMENTAL CONDITIONS**	25deg.C, 65%RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	17.76	17.76	0.5	PASS
6	2437	17.80	17.80	0.5	PASS
11	2462	17.80	16.56	0.5	PASS

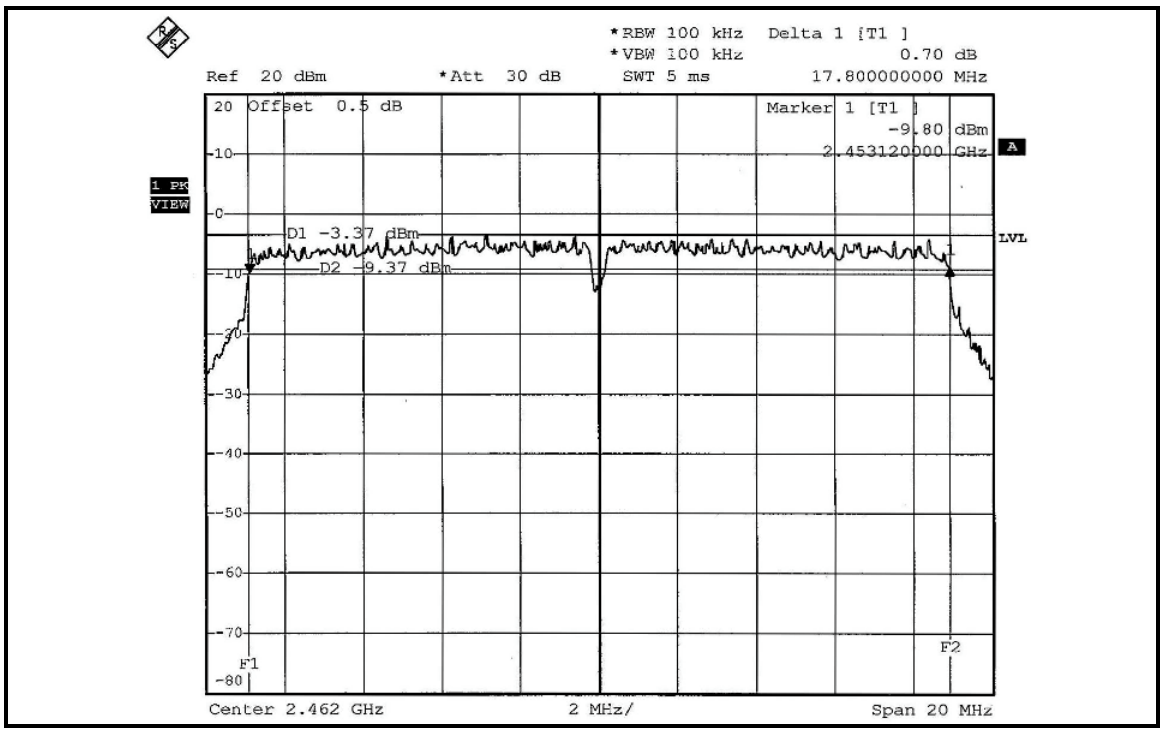
FOR CHAIN 0: CH 1



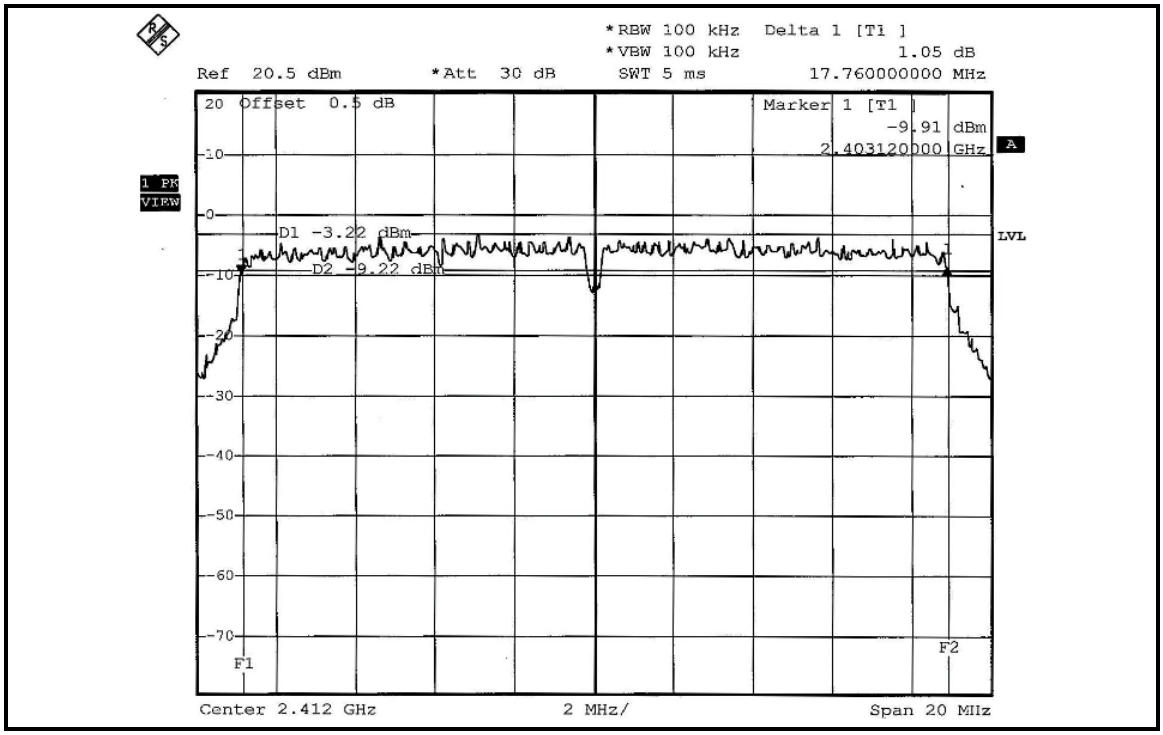
CH 6


*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
1.08 dB
17.800000000 MHz
Ref 20.5 dBm
*Att 30 dB
Offset 0.5 dB
Marker 1 [T1]
-6.18 dBm
2.428120000 GHz
D1 0.03 dBm
D2 -5.97 dBm
1 PK VIEW
A
LVL
F1
F2
Center 2.437 GHz
2 MHz/
Span 20 MHz

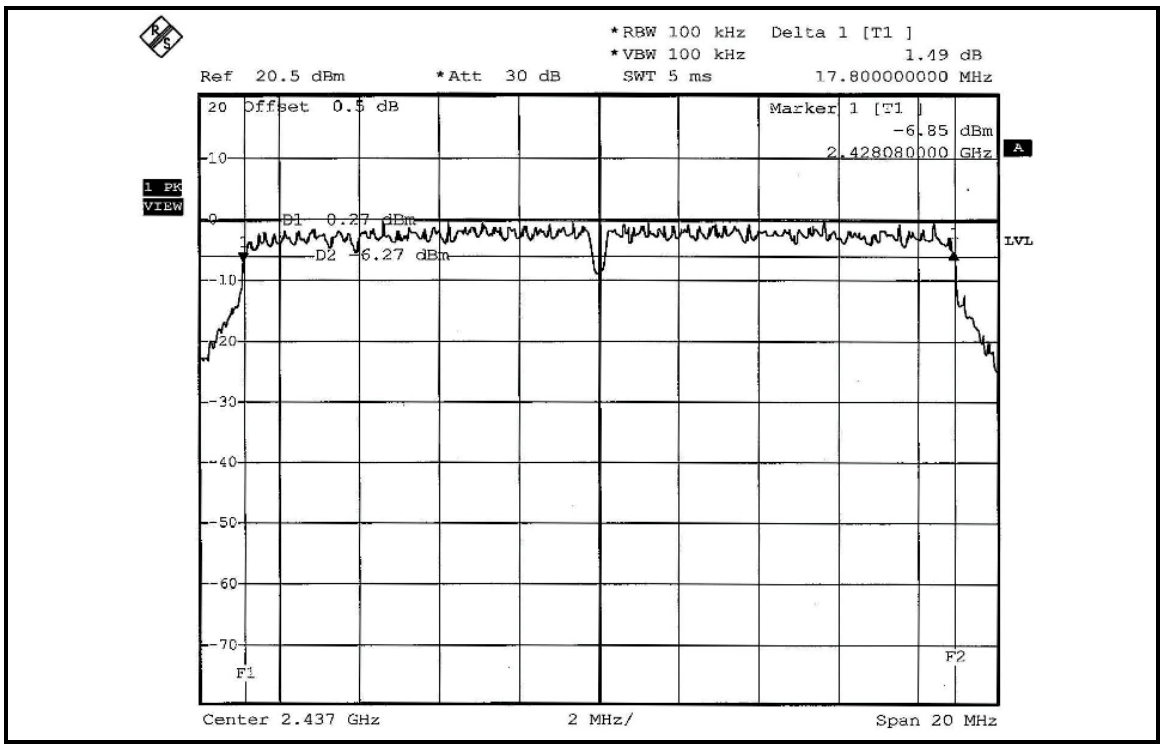
CH 11


*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
0.70 dB
17.800000000 MHz
Ref 20 dBm
*Att 30 dB
Offset 0.5 dB
Marker 1 [T1]
-9.80 dBm
2.453120000 GHz
D1 -3.37 dBm
D2 -9.37 dBm
1 PK VIEW
A
LVL
F1
F2
Center 2.462 GHz
2 MHz/
Span 20 MHz

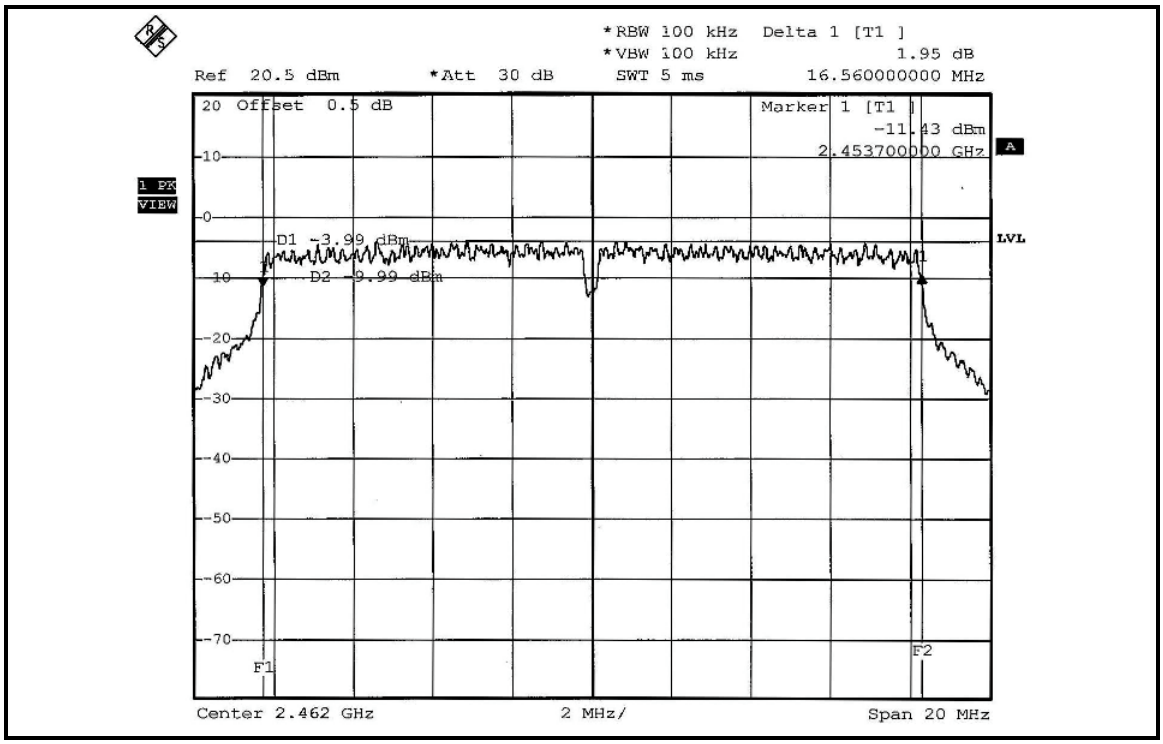
FOR CHAIN 1: CH 1



CH 6



CH 11

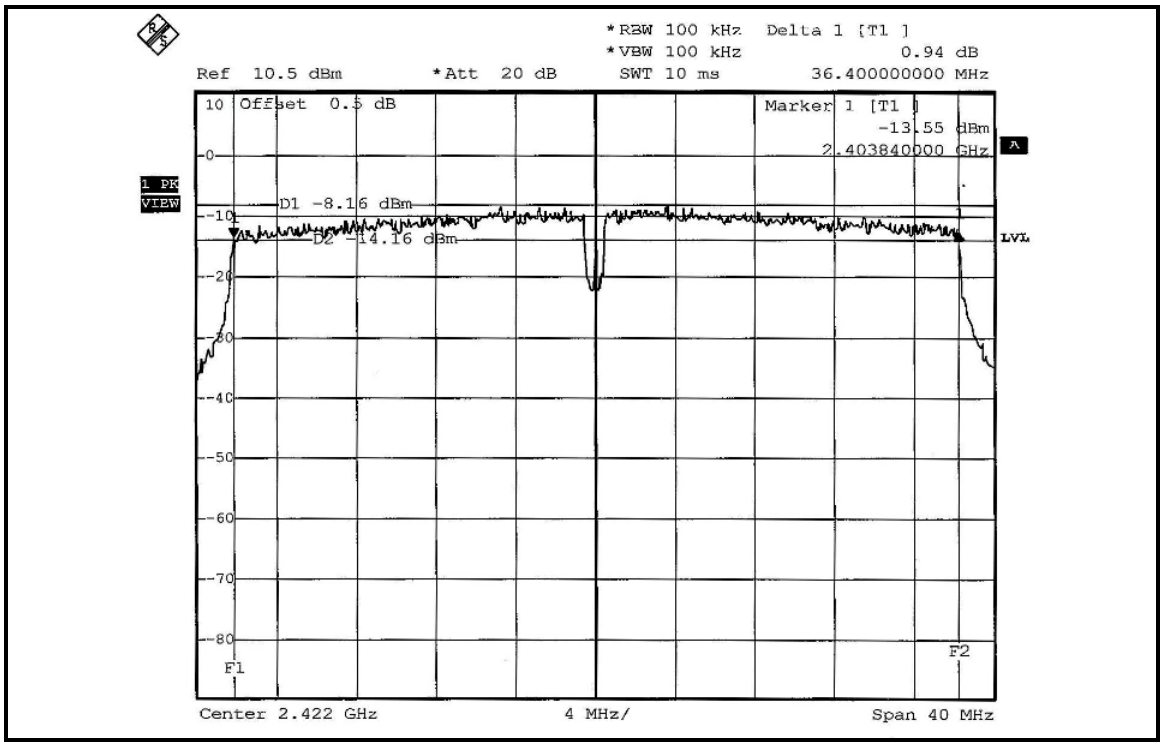

*RBW 100 kHz
*VBW 100 kHz
SWT 5 ms
Delta 1 [T1]
1.95 dB
16.560000000 MHz
Ref 20.5 dBm
*Att 30 dB
20 Offset 0.5 dB
Marker 1 [T1]
-11.43 dBm
2.453700000 GHz
1 PK
VIEW
A
LVL
D1 -3.99 dBm
D2 -9.99 dBm
F1
F2
Center 2.462 GHz
2 MHz/
Span 20 MHz

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

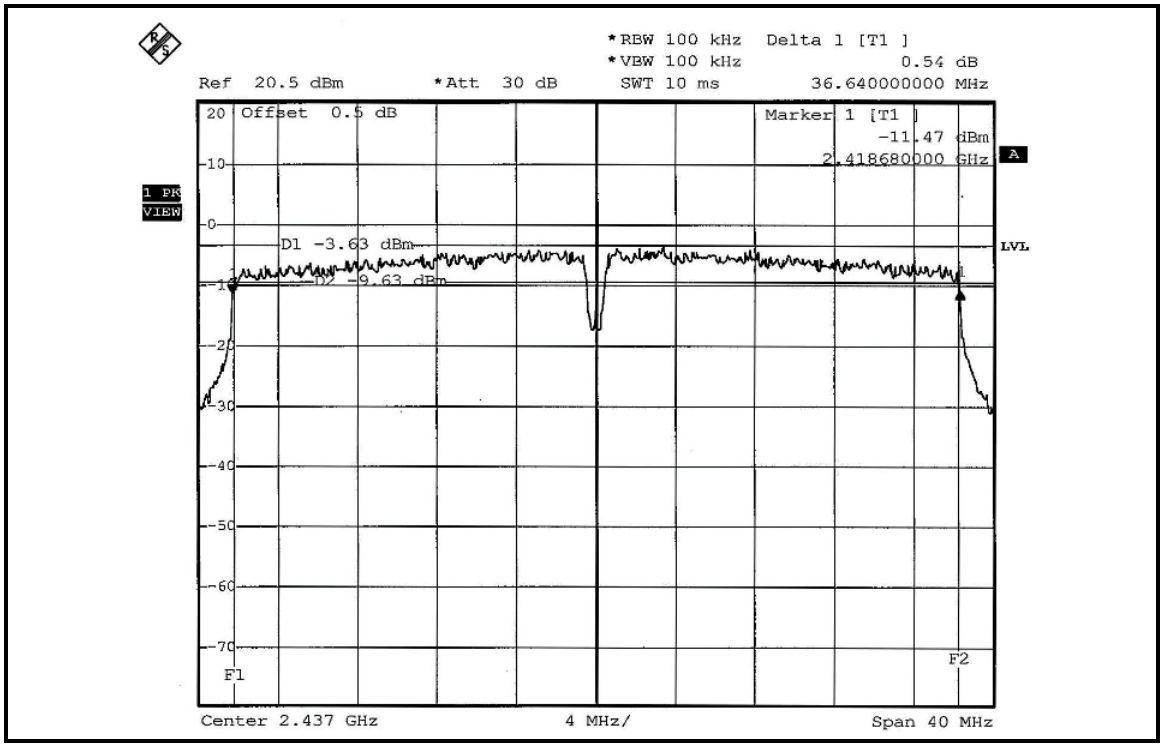
MODULATION TYPE	BPSK	TRANSFER RATE	15Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 65%RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2422	36.40	36.48	0.5	PASS
4	2437	36.64	36.64	0.5	PASS
7	2452	36.56	36.56	0.5	PASS

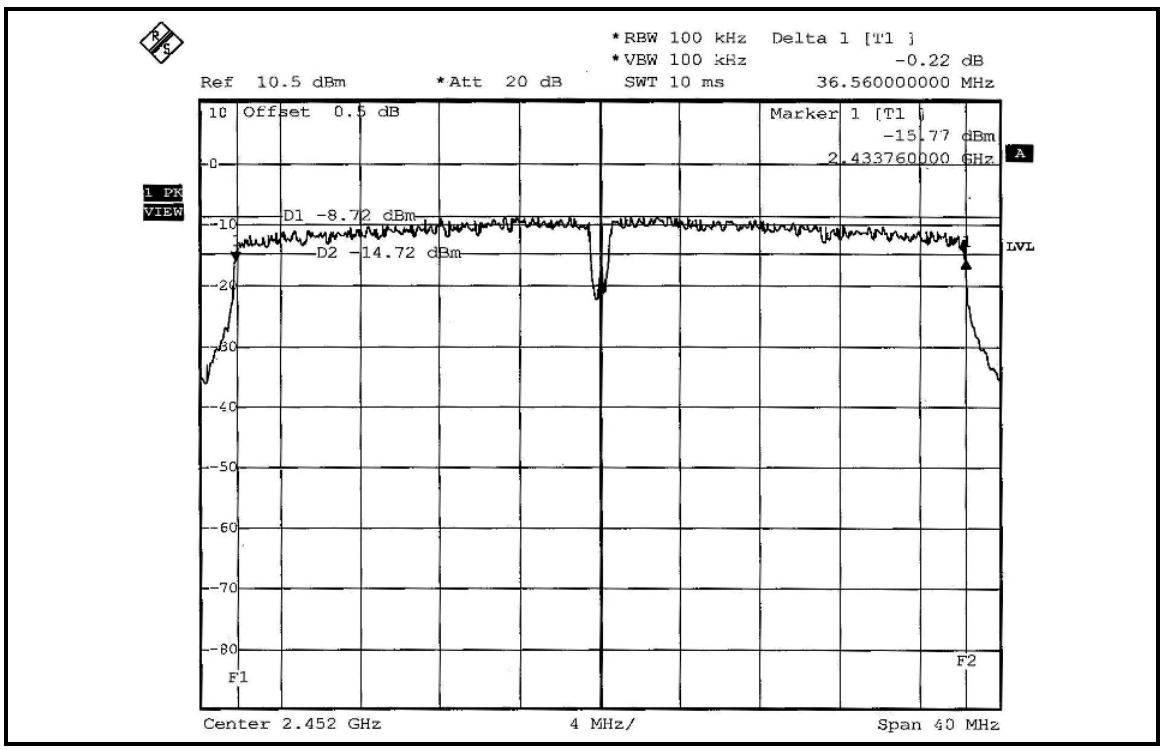
FOR CHAIN 0: CH 1



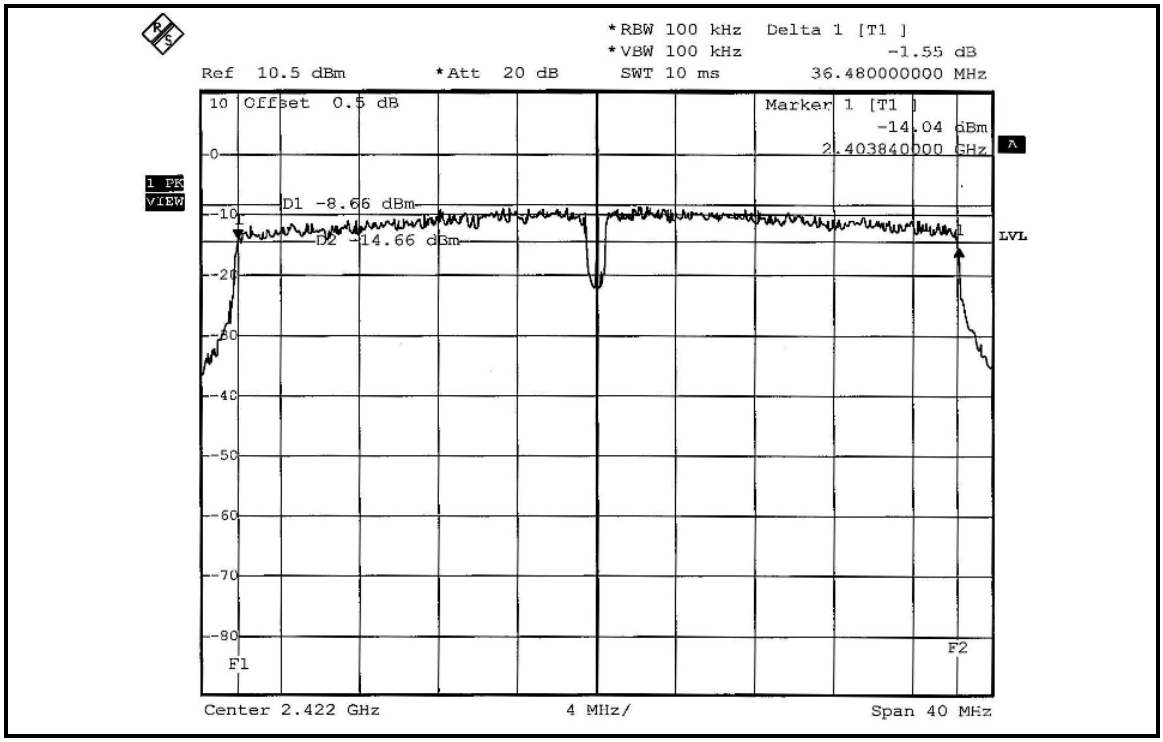
CH 4


*RBW 100 kHz
*VBW 100 kHz
Delta 1 [T1]
0.54 dB
Ref 20.5 dBm
*Att 30 dB
SWT 10 ms
36.640000000 MHz
Offset 0.5 dB
Marker 1 [T1]
-11.47 dBm
2.418680000 GHz
1 PK VIEW
D1 -3.63 dBm
D2 -9.63 dBm
LVL
F1
F2
Center 2.437 GHz
4 MHz/
Span 40 MHz

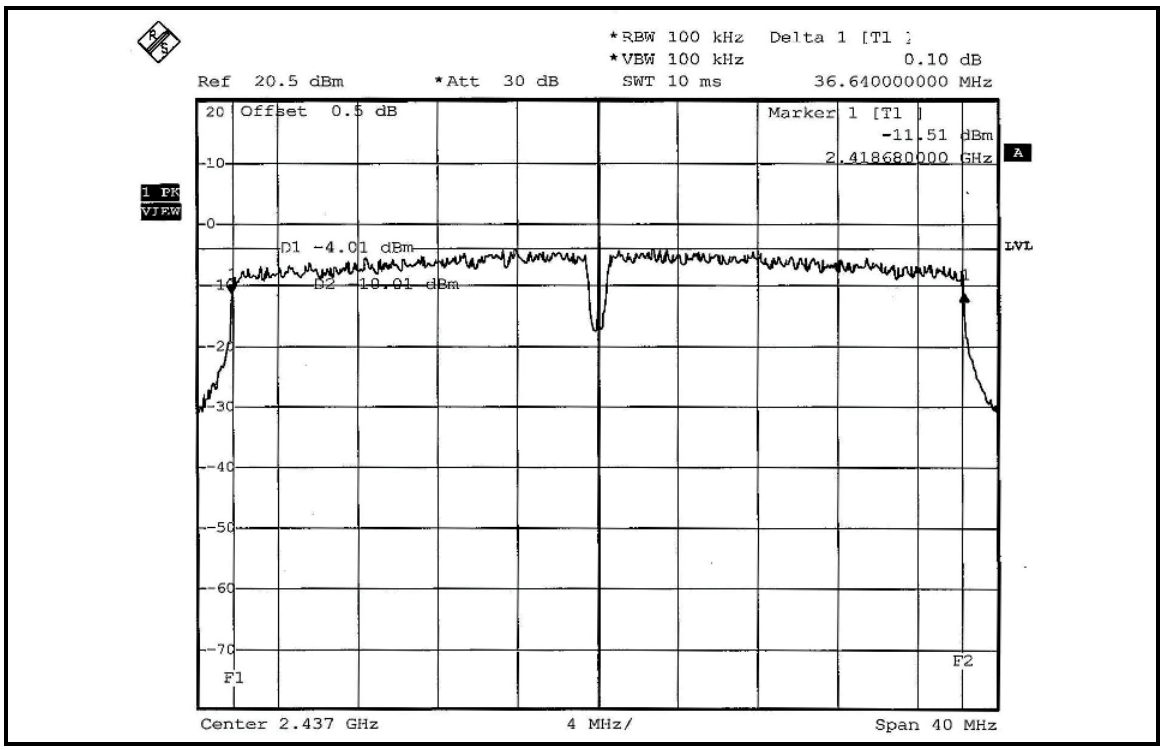
CH 7


*RBW 100 kHz
*VBW 100 kHz
Delta 1 [T1]
-0.22 dB
Ref 10.5 dBm
*Att 20 dB
SWT 10 ms
36.560000000 MHz
Offset 0.5 dB
Marker 1 [T1]
-15.77 dBm
2.433760000 GHz
1 PK VIEW
D1 -8.72 dBm
D2 -14.72 dBm
LVL
F1
F2
Center 2.452 GHz
4 MHz/
Span 40 MHz

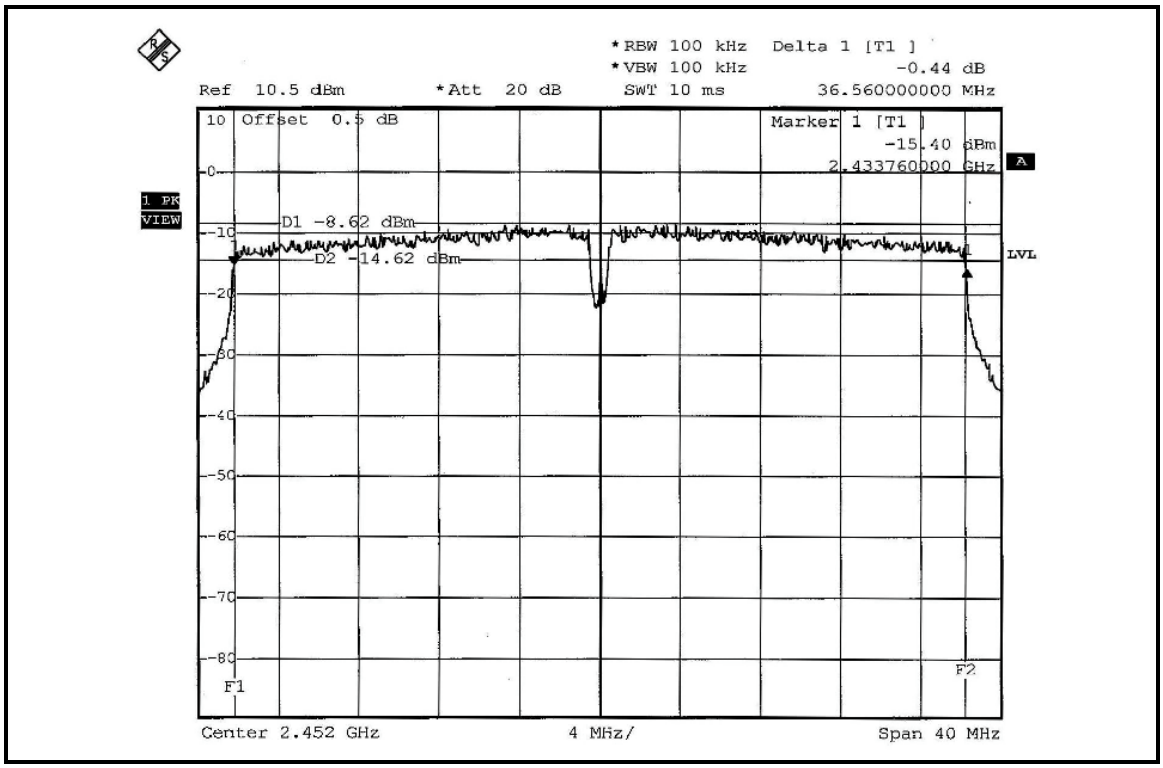
FOR CHAIN 1: CH 1



CH 4



CH 7


*RBW 100 kHz
*VBW 100 kHz
SWT 10 ms
Delta 1 [T1]
-0.44 dB
36.560000000 MHz
Ref 10.5 dBm
*Att 20 dB
10 Offset 0.5 dB
Marker 1 [T1]
-15.40 dBm
2.433760000 GHz
1 PK
VIEW
D1 -8.62 dBm
D2 -14.62 dBm
A
LVL
F1
F2
Center 2.452 GHz
4 MHz/
Span 40 MHz

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

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

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2422	9.76	9.76	0.5	PASS
4	2437	9.68	9.68	0.5	PASS
7	2452	9.76	9.76	0.5	PASS

FOR CHAIN 0: CH 1