

FCC TEST REPORT

REPORT NO.: RF950426L06

MODEL NO.: F5D8231-4

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ISSUED: May 02, 2006

APPLICANT: Belkin Corporation

ADDRESS: 501 West Walnut Street, Compton, CA 90220

ISSUED BY: Advance Data Technology Corporation

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R.O.C.

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

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1. CERTIFICATION

PRODUCT : N1 Wireless Router

MODEL NO.: F5D8231-4

BRAND: Belkin

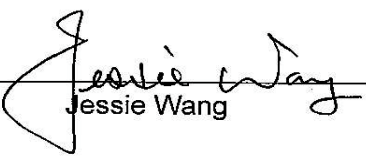
APPLICANT : Belkin Corporation

TESTED: Apr. 27, ~ May 02, 2006

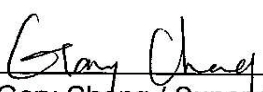
TEST SAMPLE: ENGINEERING SAMPLE

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 : , **DATE:** May 02, 2006
Jessie Wang

TECHNICAL ACCEPTANCE : , **DATE:** May 02, 2006
Responsible for RF Long Chen

APPROVED BY : , **DATE:** May 02, 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 -11.20dB at 0.377MHz.
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 -1.02dB at 175.00MHz.
15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit.
15.247(d)	Band Edge Measurement Limit: 20dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit.

2.1 MEASUREMENT UNCERTAINTY

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

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz ~ 30MHz	2.44dB
Radiated emissions	30MHz ~ 200MHz	3.63 dB
	200MHz ~1000MHz	3.65 dB
	1GHz ~ 18GHz	2.20 dB
	18GHz ~ 40GHz	1.88 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	N1 Wireless Router
MODEL NO.	F5D8231-4
FCC ID	K7SF5D8231-4
POWER SUPPLY	12.0Vdc from AC adapter
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b: 11.0/ 5.5/ 2.0/ 1.0Mbps 802.11g: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps Draft 802.11n (20MHz): 144.44/ 130.00/ 115.56/ 86.67/ 57.78/ 43.33/ 28.89/ 14.44/ 72.2/ 65.0/ 57.8/ 43.3/ 28.9/ 21.7/ 14.4/ 7.2Mbps Draft 802.11n (40MHz): 300.0/ 270.0/ 240.0/ 180.0/ 120.0/ 90.0/ 60.0/ 30.0/ 150.0/ 135.0/ 120.0/ 90.0/ 60.0/ 45.0/ 30.0/ 15.0Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11 for 802.11b, 802.11g, draft 802.11n (20MHz) 7 for draft 802.11n (40MHz)
MAXIMUM OUTPUT POWER	210.436mW
ANTENNA TYPE	Dipole antenna with 2.24dBi gain
DATA CABLE	NA
I/O PORTS	NA

NOTE:

- The EUT was powered by the following adapter:

Brand	RONG-HORNG
Model	RH48-1201000DU
Input Power	120Vac, 60Hz, 30W
Output Power	12Vdc, 1000mA
Power Cord	DC 1.8m shielded cable without core

- The CPU of EUT has two versions to choose for sales.

CPU	Remark
Original version	IXP-420BB (266MHz)
New version	IXP-420BC (400MHz)

- The EUT incorporates a MIMO function with 802.11b, 802.11g, draft 802.11n. Physically, the card provides three completed transmitters and three receivers.
- The EUT is 3 * 3 spatial MIMO (3Tx & 3Rx) without beam forming function that only operate triple chain configuration (chain 0, chain 1 and chain 2 transceivers are operational).

5. When the EUT operating in 802.11b, 802.11g, the software operation, which is defined by manufacturer, only set triple 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 triple 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

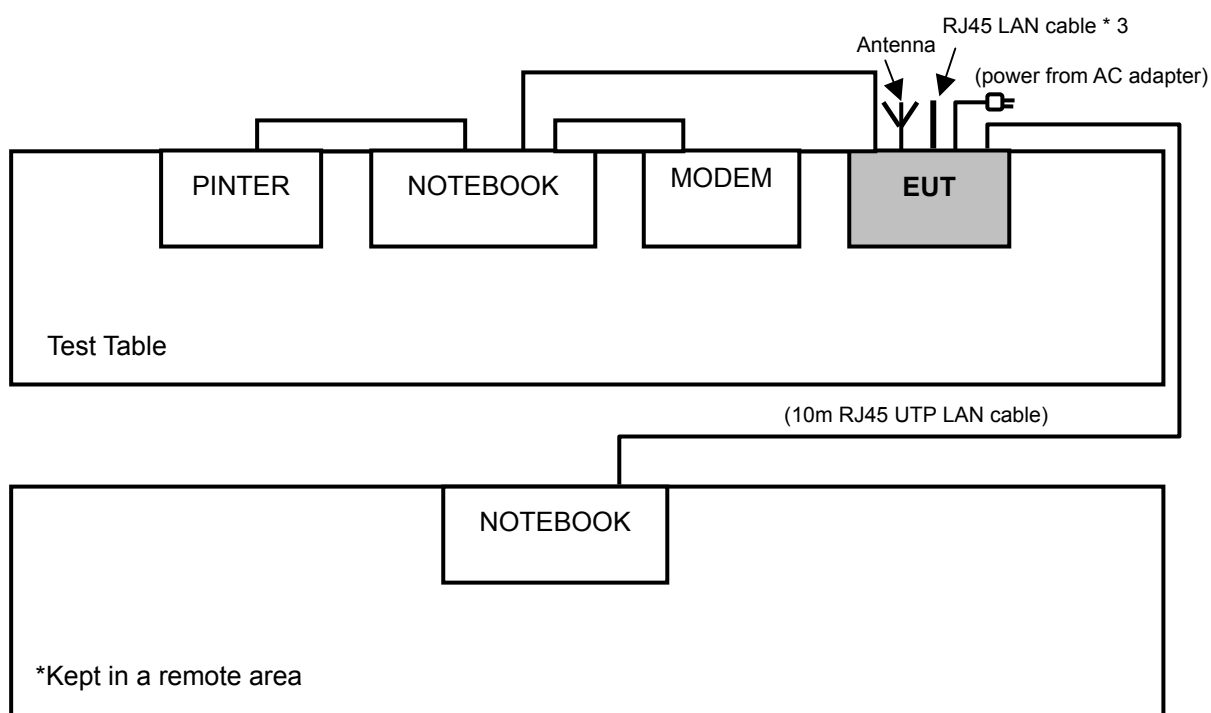
Eleven channels are provided for 802.11b, 802.11g, draft 802.11n (20MHz):

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 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	
A	√	√	√	√	CPU: IXP-420BB (266MHz)
B	-	√	-	-	CPU: IXP-420BC (400MHz)

Where **PLC**: Power Line Conducted Emission

RE < 1G: Radiated Emission below 1GHz

RE ≥ 1G: Radiated Emission above 1GHz

APCM: Antenna Port Conducted Measurement

Note: “ - ” means no effect

POWER LINE CONDUCTED EMISSION TEST:

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

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
Draft 802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	7.2
Draft 802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	15.0

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.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11g	1 to 11	1	OFDM	BPSK	6.0
B	802.11g	1 to 11	1	OFDM	BPSK	6.0
A	Draft 802.11n (20MHz)	1 to 11	1	OFDM	BPSK	7.2
A	Draft 802.11n (40MHz)	1 to 7	1	OFDM	BPSK	15.0

RADIATED EMISSION TEST (ABOVE 1 GHz):

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

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

BANDEDGE MEASUREMENT:

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

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

ANTENNA PORT CONDUCTED MEASUREMENT:

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

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

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC Part 15, Subpart C. (15.247)

ANSI C63.4-2003

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

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

3.4 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK COMPUTER	DELL	PP05L	12130898320	E2K24CLNS
2	MODEM	ACEEX	1414V/3	0401008260	IFAXDM1414
3	PRINTER	EPSON	LQ-300+	DCGY054146	FCC DoC Approved
4	NOTEBOOK COMPUTER	DELL	PP05L	20838027664	E2K24CLNS

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	1.2m shielded cable
3	1.2m shielded cable
4	NA

NOTE:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item 4 acted as communication partners to transfer data.

4. TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

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

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

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	100291	Nov. 11, 2006
RF signal cable Woken	5D-FB	Cable-HYC01-01	Jan. 06, 2007
LISN ROHDE & SCHWARZ	ESH3-Z5	100312	Feb. 15, 2007
LISN ROHDE & SCHWARZ	ESH2-Z5	100104	Feb. 07, 2007
Software ADT	ADT_Cond_V3	NA	NA

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Shielded Room 1.
 3. The VCCI Site Registration No. is C-2040.

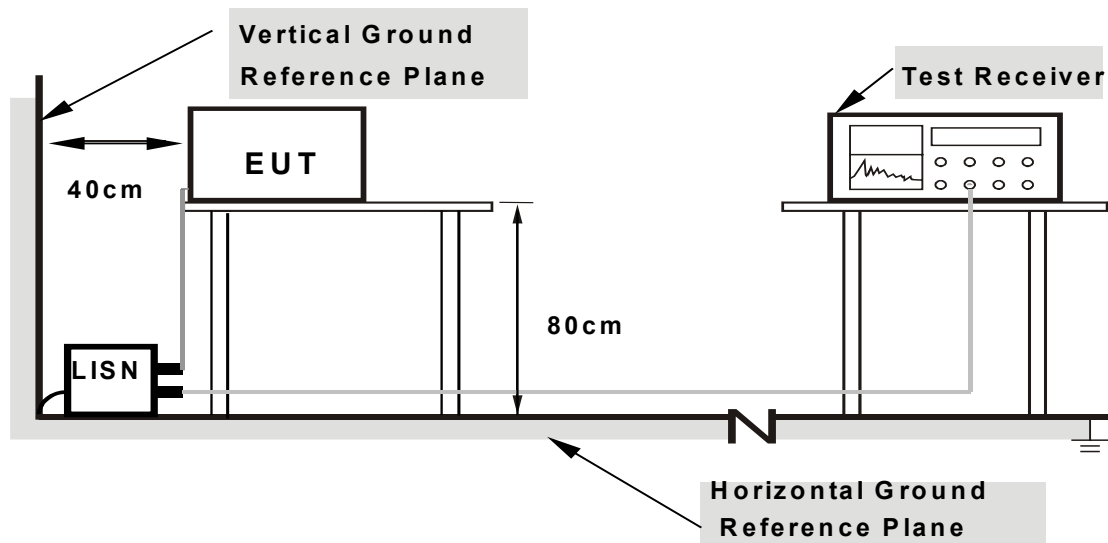
4.1.3 TEST PROCEDURES

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

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



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

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

4.1.6 EUT OPERATING CONDITIONS

- a. Connected EUT with notebook system and placed on a testing table.
- b. Prepared other notebooks to act as communication partners and placed it outside of testing area.
- c. The notebook system ran a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
- d. The notebook system sent "H" messages to its screen.
- e. The notebook system show "H" messages to modem.
- f. The notebook system sent "H" messages to printer and the printer prints them on paper.
- g. Repeated item d ~f.

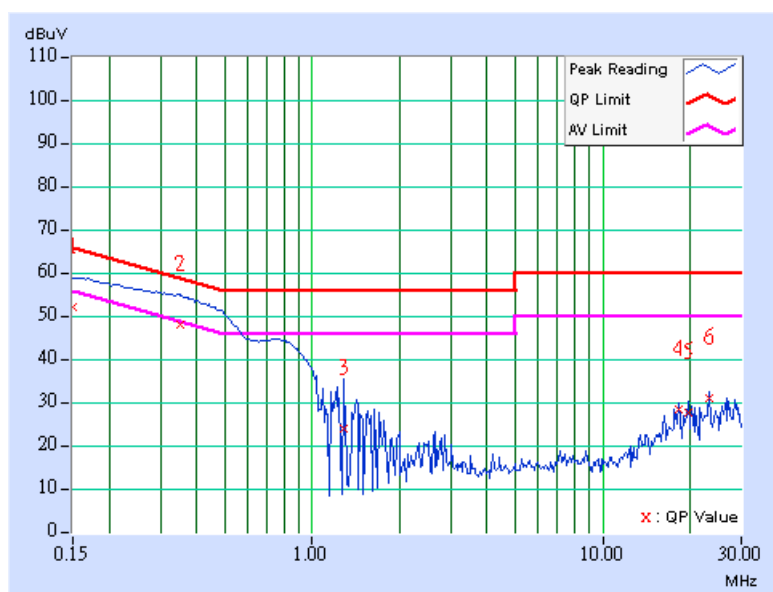
4.1.7 TEST RESULTS

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	6.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68% RH, 991hPa	TESTED BY	Morgan Chen

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.10	51.11	-	51.21	-	66.00	56.00	-14.79	-
2	0.349	0.10	47.02	-	47.12	-	58.98	48.98	-11.86	-
3	1.277	0.20	23.12	-	23.32	-	56.00	46.00	-32.68	-
4	18.246	0.76	27.71	-	28.47	-	60.00	50.00	-31.53	-
5	19.711	0.82	27.00	-	27.82	-	60.00	50.00	-32.18	-
6	23.129	0.96	30.09	-	31.05	-	60.00	50.00	-28.95	-

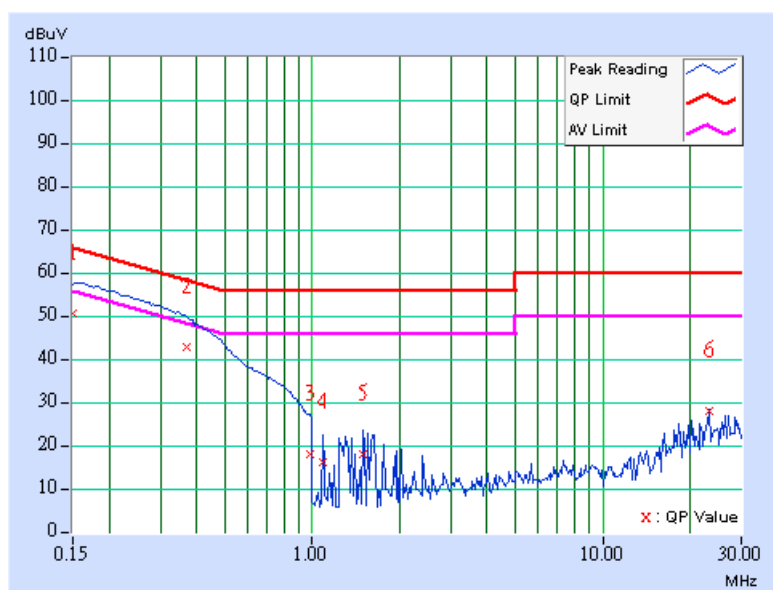
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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 1	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68% RH, 991hPa	TESTED BY	Morgan Chen

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.10	50.26	-	50.36	-	66.00	56.00	-15.64	-
2	0.369	0.10	42.38	-	42.48	-	58.53	48.53	-16.05	-
3	0.982	0.10	17.52	-	17.62	-	56.00	46.00	-38.38	-
4	1.094	0.11	15.73	-	15.84	-	56.00	46.00	-40.16	-
5	1.488	0.15	17.45	-	17.60	-	56.00	46.00	-38.40	-
6	23.129	0.63	27.66	-	28.29	-	60.00	50.00	-31.71	-

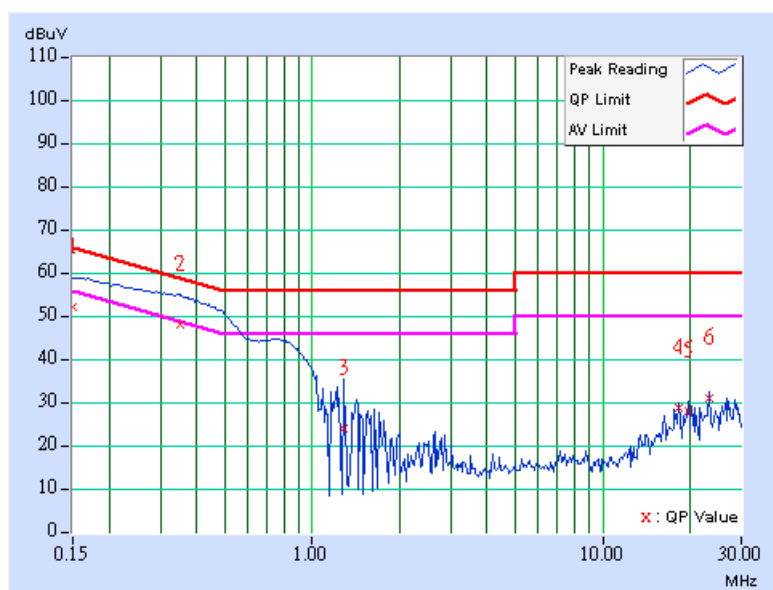
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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 6	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68% RH, 991hPa	TESTED BY	Morgan Chen

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.10	51.15	-	51.25	-	66.00	56.00	-14.75	-
2	0.349	0.10	47.05	-	47.15	-	58.98	48.98	-11.83	-
3	1.277	0.20	23.18	-	23.38	-	56.00	46.00	-32.62	-
4	18.246	0.76	27.75	-	28.51	-	60.00	50.00	-31.49	-
5	19.711	0.82	27.05	-	27.87	-	60.00	50.00	-32.13	-
6	23.129	0.96	30.12	-	31.08	-	60.00	50.00	-28.92	-

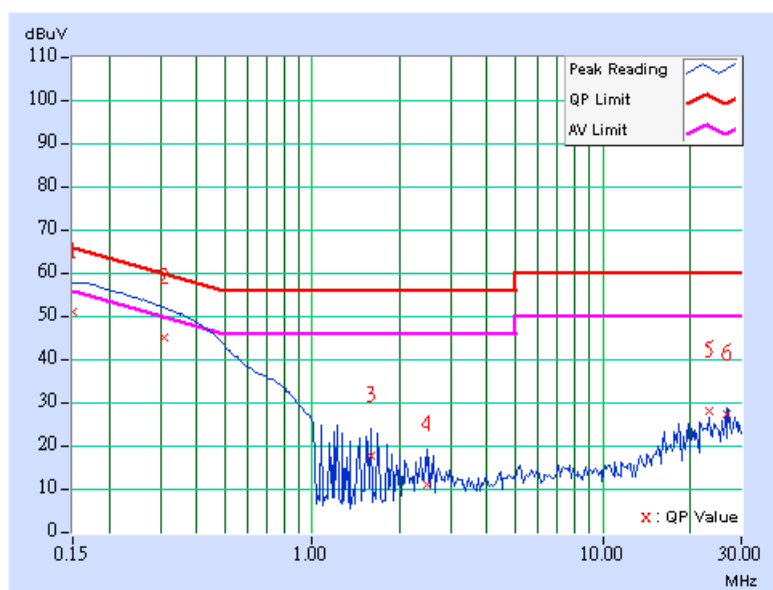
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68% RH, 991hPa	TESTED BY	Morgan Chen

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.10	50.65	-	50.75	-	66.00	56.00	-15.25	-
2	0.310	0.10	44.62	-	44.72	-	59.97	49.97	-15.25	-
3	1.590	0.16	17.27	-	17.43	-	56.00	46.00	-38.57	-
4	2.473	0.24	10.42	-	10.66	-	56.00	46.00	-45.34	-
5	23.129	0.63	27.70	-	28.33	-	60.00	50.00	-31.67	-
6	26.609	0.63	26.87	-	27.50	-	60.00	50.00	-32.50	-

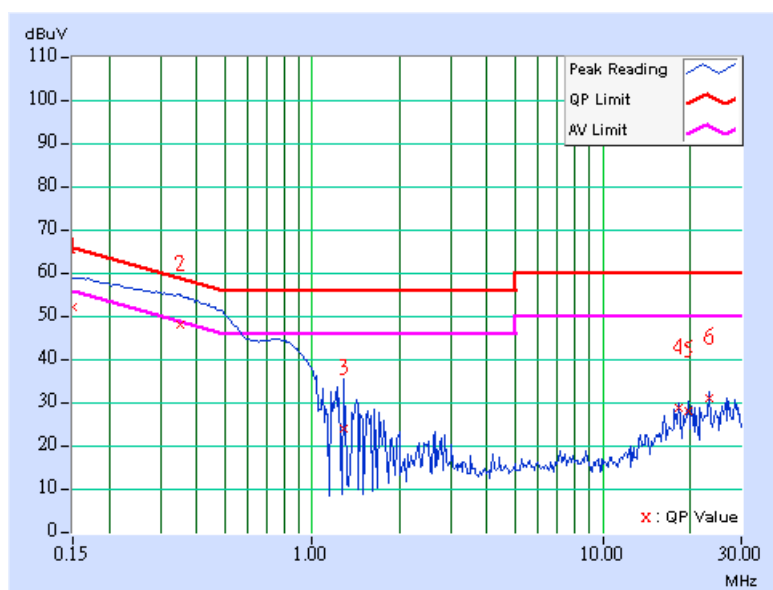
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68% RH, 991hPa	TESTED BY	Morgan Chen

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.10	51.13	-	51.23	-	66.00	56.00	-14.77	-
2	0.349	0.10	47.04	-	47.14	-	58.98	48.98	-11.84	-
3	1.277	0.20	23.22	-	23.42	-	56.00	46.00	-32.58	-
4	18.246	0.76	27.78	-	28.54	-	60.00	50.00	-31.46	-
5	19.711	0.82	27.07	-	27.89	-	60.00	50.00	-32.11	-
6	23.129	0.96	30.18	-	31.14	-	60.00	50.00	-28.86	-

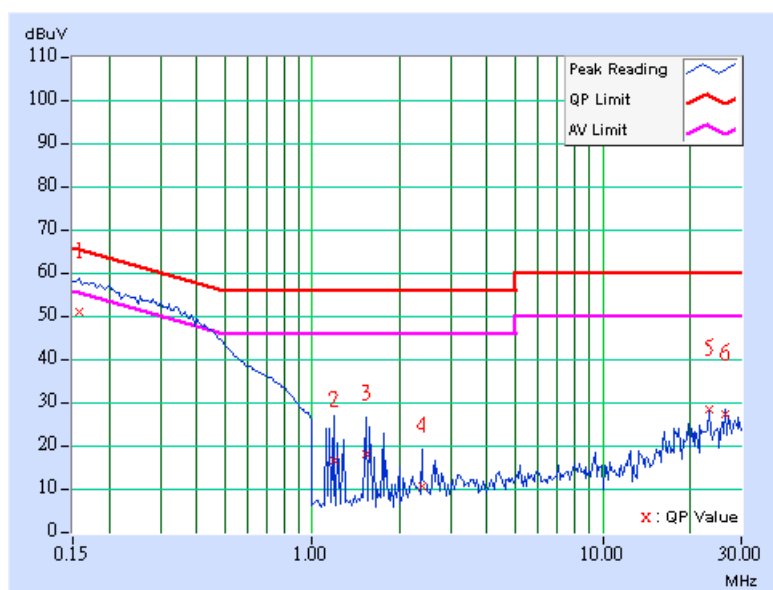
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value =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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68% RH, 991hPa	TESTED BY	Morgan Chen

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.158	0.10	50.38	-	50.48	-	65.58	55.58	-15.10	-
2	1.184	0.12	15.92	-	16.04	-	56.00	46.00	-39.96	-
3	1.535	0.15	17.45	-	17.60	-	56.00	46.00	-38.40	-
4	2.387	0.23	10.05	-	10.28	-	56.00	46.00	-45.72	-
5	23.129	0.63	27.72	-	28.35	-	60.00	50.00	-31.65	-
6	26.488	0.63	26.74	-	27.37	-	60.00	50.00	-32.63	-

- 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.

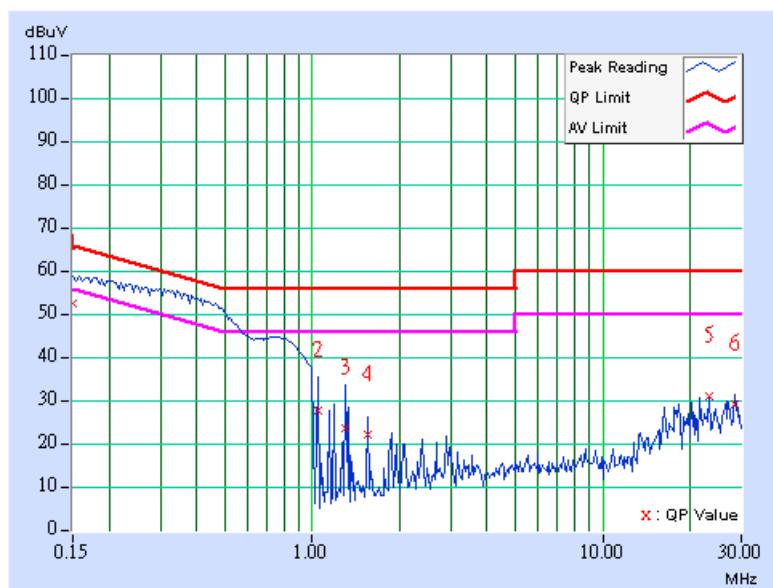


DRAFT 802.11n (20MHz) OFDM MODULATION:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68% RH, 991hPa	TESTED BY	Morgan Chen

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.10	51.25	-	51.35	-	66.00	56.00	-14.65	-
2	1.051	0.20	26.58	-	26.78	-	56.00	46.00	-29.22	-
3	1.305	0.20	22.58	-	22.78	-	56.00	46.00	-33.22	-
4	1.559	0.20	20.97	-	21.17	-	56.00	46.00	-34.83	-
5	23.131	0.96	29.99	-	30.95	-	60.00	50.00	-29.05	-
6	28.688	1.25	28.09	-	29.34	-	60.00	50.00	-30.66	-

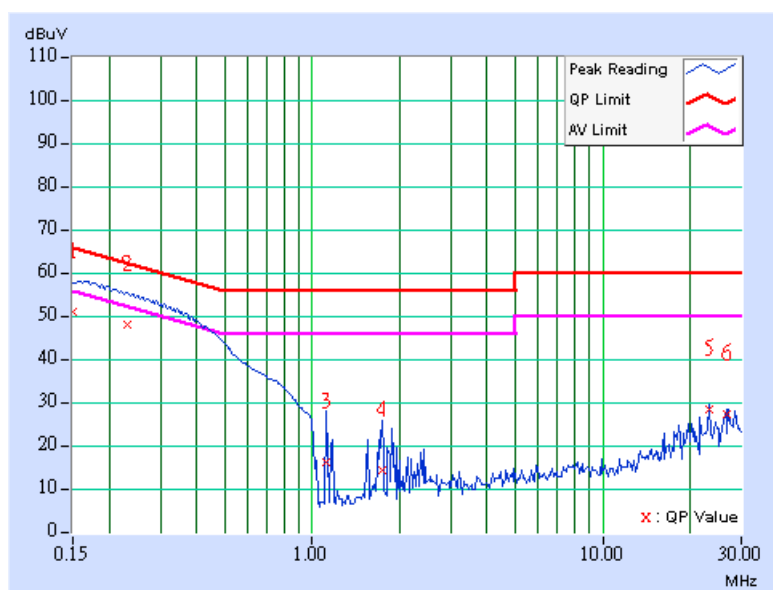
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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 1	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68% RH, 991hPa	TESTED BY	Morgan Chen

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.10	50.45	-	50.55	-	66.00	56.00	-15.45	-
2	0.232	0.10	47.38	-	47.48	-	62.38	52.38	-14.90	-
3	1.121	0.11	15.80	-	15.91	-	56.00	46.00	-40.09	-
4	1.734	0.17	13.88	-	14.05	-	56.00	46.00	-41.95	-
5	23.129	0.63	27.88	-	28.51	-	60.00	50.00	-31.49	-
6	26.609	0.63	26.93	-	27.56	-	60.00	50.00	-32.44	-

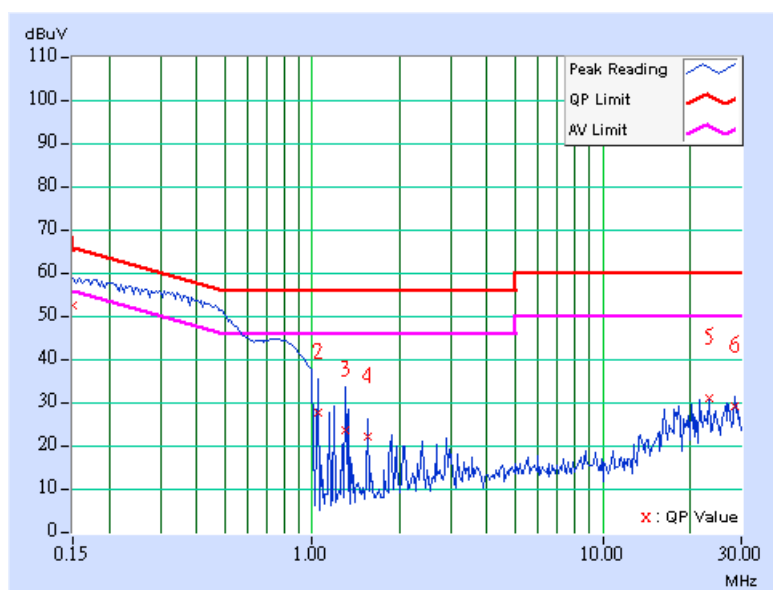
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68% RH, 991hPa	TESTED BY	Morgan Chen

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.10	51.27	-	51.37	-	66.00	56.00	-14.63	-
2	1.051	0.20	26.59	-	26.79	-	56.00	46.00	-29.21	-
3	1.305	0.20	22.59	-	22.79	-	56.00	46.00	-33.21	-
4	1.559	0.20	20.99	-	21.19	-	56.00	46.00	-34.81	-
5	23.131	0.96	30.01	-	30.97	-	60.00	50.00	-29.03	-
6	28.688	1.25	28.12	-	29.37	-	60.00	50.00	-30.63	-

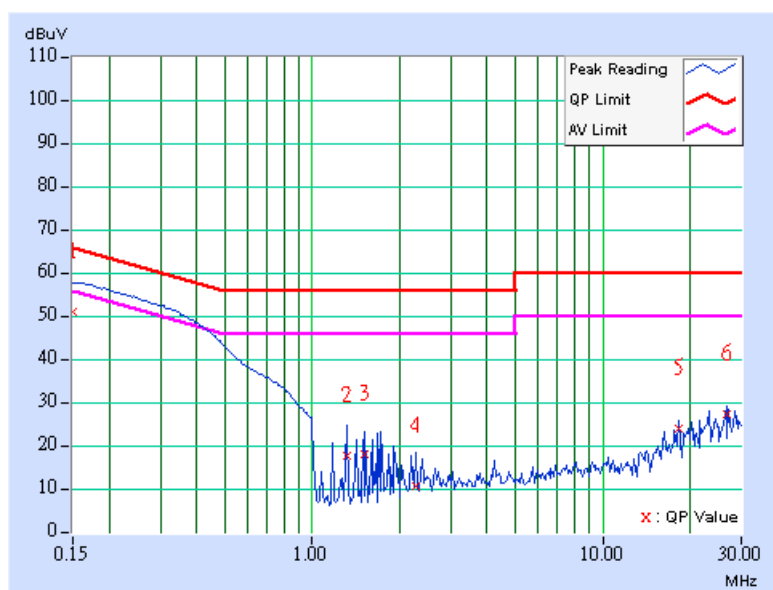
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68% RH, 991hPa	TESTED BY	Morgan Chen

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.10	50.47	-	50.57	-	66.00	56.00	-15.43	-
2	1.313	0.13	17.02	-	17.15	-	56.00	46.00	-38.85	-
3	1.523	0.15	17.49	-	17.64	-	56.00	46.00	-38.36	-
4	2.285	0.22	10.28	-	10.50	-	56.00	46.00	-45.50	-
5	18.242	0.59	23.42	-	24.01	-	60.00	50.00	-35.99	-
6	26.609	0.63	26.85	-	27.48	-	60.00	50.00	-32.52	-

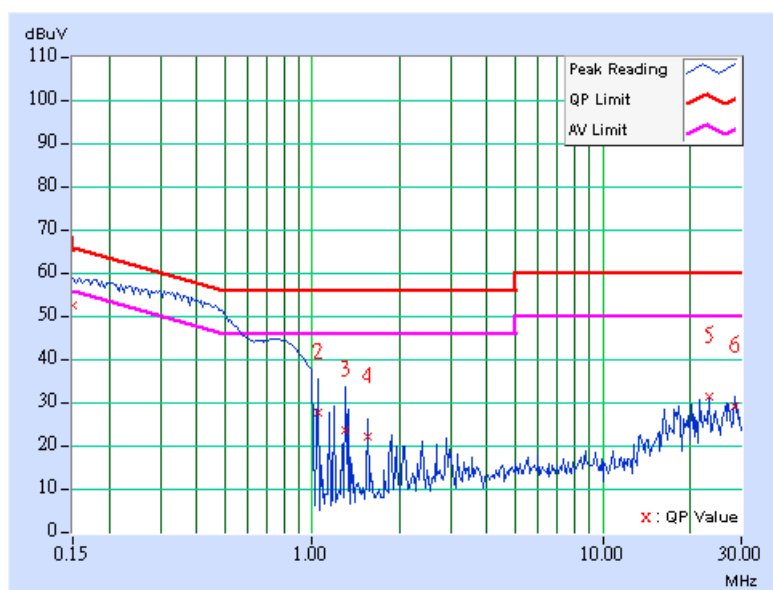
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68% RH, 991hPa	TESTED BY	Morgan Chen

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.10	51.29	-	51.39	-	66.00	56.00	-14.61	-
2	1.051	0.20	26.63	-	26.83	-	56.00	46.00	-29.17	-
3	1.305	0.20	22.63	-	22.83	-	56.00	46.00	-33.17	-
4	1.559	0.20	21.02	-	21.22	-	56.00	46.00	-34.78	-
5	23.131	0.96	30.05	-	31.01	-	60.00	50.00	-28.99	-
6	28.688	1.25	28.15	-	29.40	-	60.00	50.00	-30.60	-

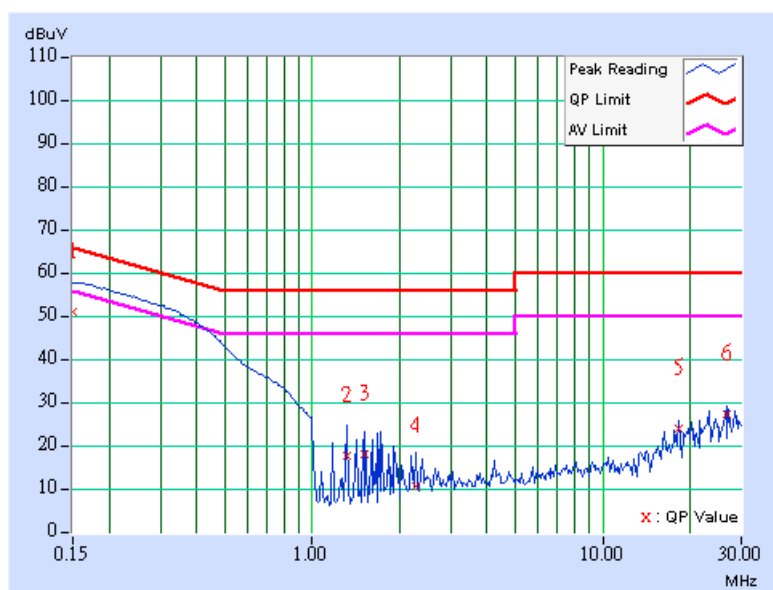
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value =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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68% RH, 991hPa	TESTED BY	Morgan Chen

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.10	50.45	-	50.55	-	66.00	56.00	-15.45	-
2	1.313	0.13	17.00	-	17.13	-	56.00	46.00	-38.87	-
3	1.523	0.15	17.45	-	17.60	-	56.00	46.00	-38.40	-
4	2.285	0.22	10.25	-	10.47	-	56.00	46.00	-45.53	-
5	18.242	0.59	23.40	-	23.99	-	60.00	50.00	-36.01	-
6	26.609	0.63	26.80	-	27.43	-	60.00	50.00	-32.57	-

- 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.

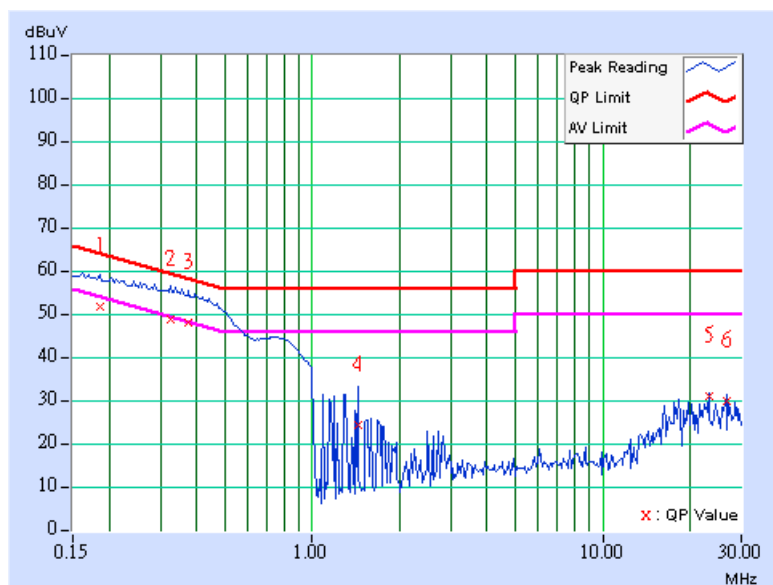


DRAFT 802.11n (40MHz) OFDM MODULATION:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68% RH, 991hPa	TESTED BY	Morgan Chen

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.185	0.10	50.71	-	50.81	-	64.25	54.25	-13.44	-
2	0.326	0.10	47.79	-	47.89	-	59.56	49.56	-11.67	-
3	0.377	0.10	46.89	-	46.99	-	58.35	48.35	-11.36	-
4	1.434	0.20	23.52	-	23.72	-	56.00	46.00	-32.28	-
5	23.129	0.96	30.18	-	31.14	-	60.00	50.00	-28.86	-
6	26.609	1.13	28.88	-	30.01	-	60.00	50.00	-29.99	-

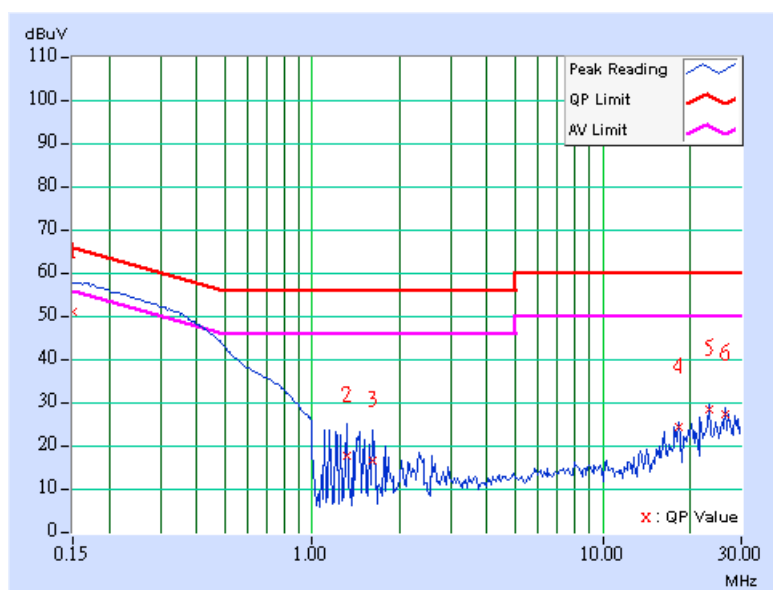
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68% RH, 991hPa	TESTED BY	Morgan Chen

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.10	50.33	-	50.43	-	66.00	56.00	-15.57	-
2	1.313	0.13	17.22	-	17.35	-	56.00	46.00	-38.65	-
3	1.617	0.16	16.02	-	16.18	-	56.00	46.00	-39.82	-
4	18.246	0.59	23.66	-	24.25	-	60.00	50.00	-35.75	-
5	23.129	0.63	27.80	-	28.43	-	60.00	50.00	-31.57	-
6	26.488	0.63	26.70	-	27.33	-	60.00	50.00	-32.67	-

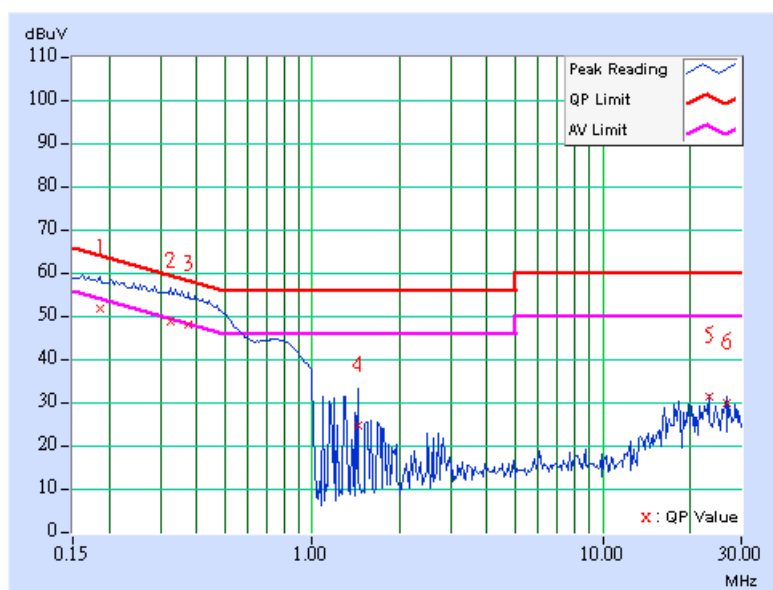
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68% RH, 991hPa	TESTED BY	Morgan Chen

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.185	0.10	50.75	-	50.85	-	64.25	54.25	-13.40	-
2	0.326	0.10	47.82	-	47.92	-	59.56	49.56	-11.64	-
3	0.377	0.10	46.93	-	47.03	-	58.35	48.35	-11.32	-
4	1.434	0.20	23.55	-	23.75	-	56.00	46.00	-32.25	-
5	23.129	0.96	30.21	-	31.17	-	60.00	50.00	-28.83	-
6	26.609	1.13	28.92	-	30.05	-	60.00	50.00	-29.95	-

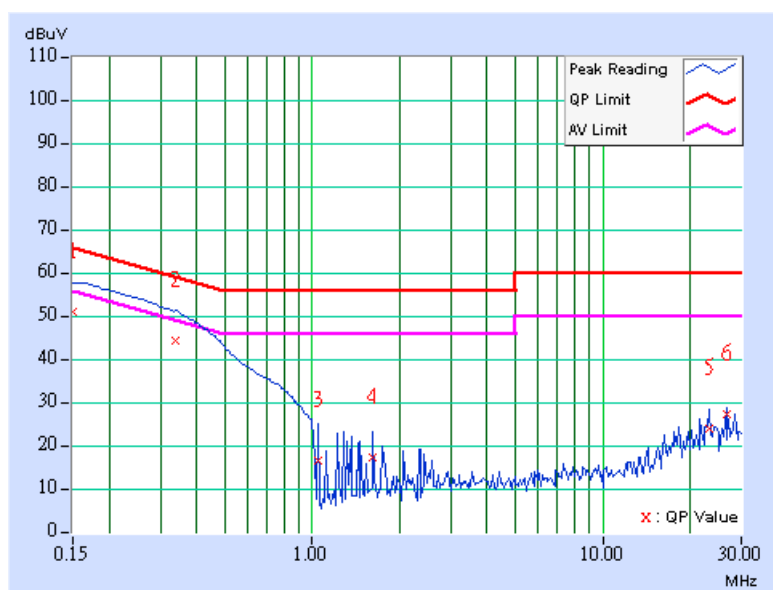
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = 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 4	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68% RH, 991hPa	TESTED BY	Morgan Chen

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.10	50.63	-	50.73	-	66.00	56.00	-15.27	-
2	0.338	0.10	43.79	-	43.89	-	59.26	49.26	-15.37	-
3	1.051	0.11	15.87	-	15.98	-	56.00	46.00	-40.02	-
4	1.621	0.16	16.94	-	17.10	-	56.00	46.00	-38.90	-
5	23.129	0.63	23.50	-	24.13	-	60.00	50.00	-35.87	-
6	26.609	0.63	26.87	-	27.50	-	60.00	50.00	-32.50	-

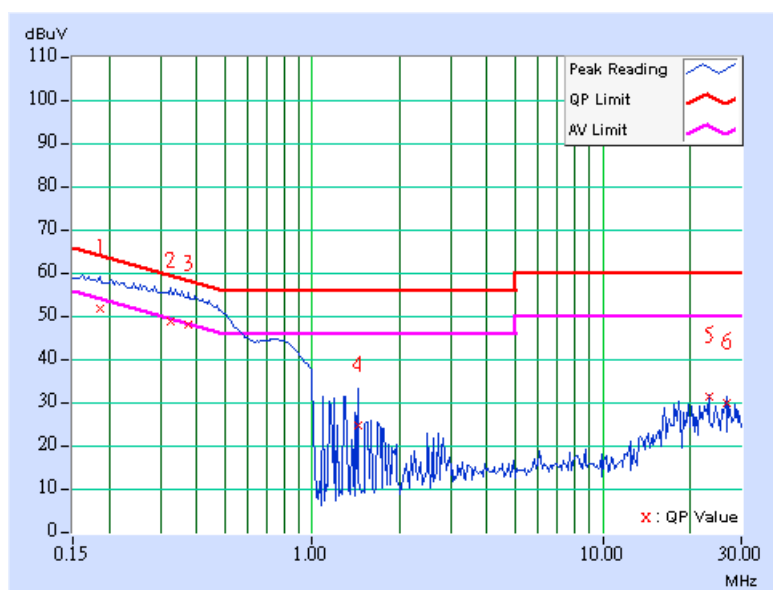
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68% RH, 991hPa	TESTED BY	Morgan Chen

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.185	0.10	50.78	-	50.88	-	64.25	54.25	-13.37	-
2	0.326	0.10	47.88	-	47.98	-	59.56	49.56	-11.58	-
3	0.377	0.10	47.05	-	47.15	-	58.35	48.35	-11.20	-
4	1.434	0.20	23.58	-	23.78	-	56.00	46.00	-32.22	-
5	23.129	0.96	30.25	-	31.21	-	60.00	50.00	-28.79	-
6	26.609	1.13	28.95	-	30.08	-	60.00	50.00	-29.92	-

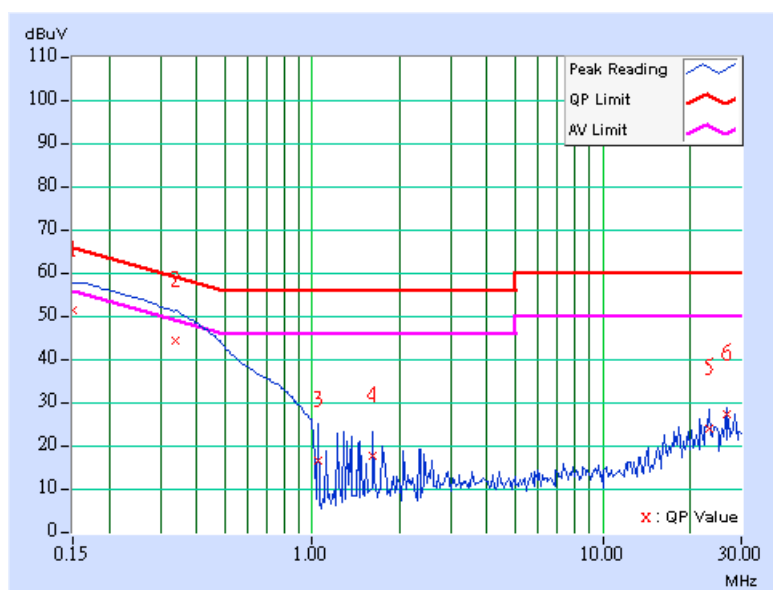
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 68% RH, 991hPa	TESTED BY	Morgan Chen

	FREQ.	CORR.	READING VALUE		EMISSION LEVEL		LIMIT		MARGIN	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.10	50.69	-	50.79	-	66.00	56.00	-15.21	-
2	0.338	0.10	43.82	-	43.92	-	59.26	49.26	-15.34	-
3	1.051	0.11	15.89	-	16.00	-	56.00	46.00	-40.00	-
4	1.621	0.16	16.99	-	17.15	-	56.00	46.00	-38.85	-
5	23.129	0.63	23.55	-	24.18	-	60.00	50.00	-35.82	-
6	26.609	0.63	26.89	-	27.52	-	60.00	50.00	-32.48	-

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



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

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

NOTE:

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

4.2.2 TEST INSTRUMENTS

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

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

4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

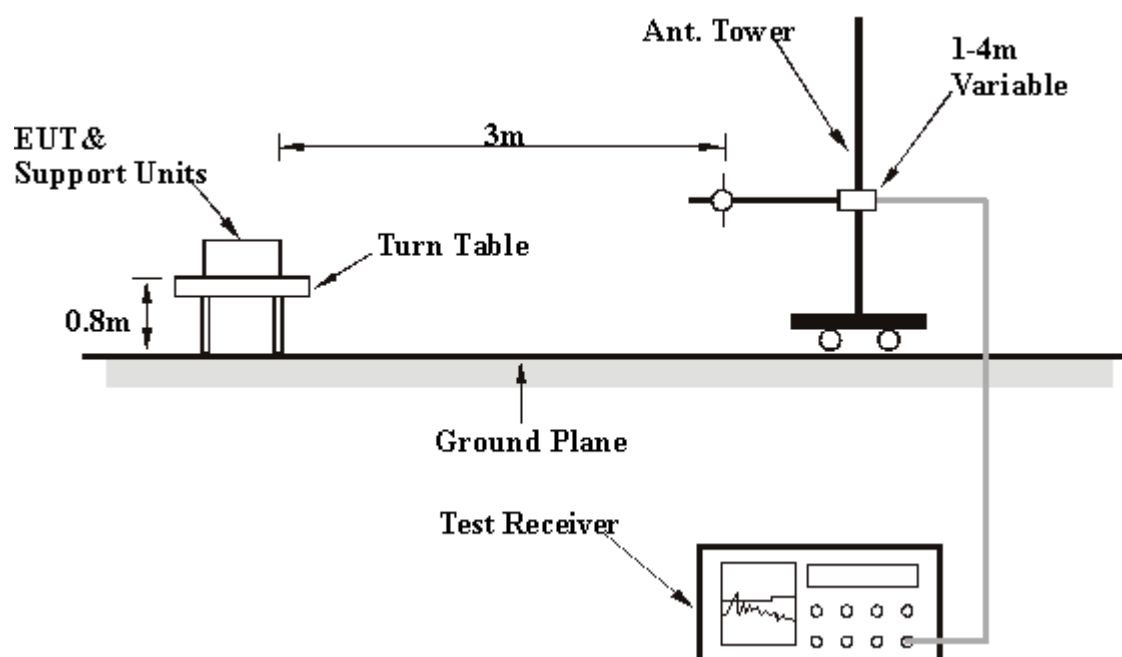
NOTE:

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

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP



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

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6

4.2.7 TEST RESULTS

BELOW 1GHz WORST-CASE DATA:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK for 802.11g	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6.0Mbps	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	22deg. C, 62% RH, 991hPa	TEST MODE	A
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	125.25	41.52 QP	43.50	-1.98	1.25 H	52	29.98	11.54
2	160.24	42.21 QP	43.50	-1.29	1.00 H	64	28.97	13.24
3	199.12	42.36 QP	43.50	-1.14	1.25 H	118	31.55	10.81
4	200.00	42.24 QP	43.50	-1.26	1.20 H	283	31.48	10.76
5	278.82	42.97 QP	46.00	-3.03	1.25 H	97	28.47	14.50
6	296.31	44.71 QP	46.00	-1.29	1.00 H	139	29.44	15.27
7	346.85	41.64 QP	46.00	-4.36	1.00 H	91	25.57	16.07
8	407.11	42.50 QP	46.00	-3.50	1.25 H	130	24.57	17.93
9	601.50	41.10 QP	46.00	-4.90	1.00 H	145	18.53	22.57
10	661.76	42.78 QP	46.00	-3.22	1.25 H	118	19.42	23.36
11	776.45	44.26 QP	46.00	-1.74	1.25 H	64	18.31	25.96
12	793.95	44.74 QP	46.00	-1.26	1.00 H	145	18.67	26.07
13	832.83	42.45 QP	46.00	-3.55	1.25 H	97	15.93	26.52
14	858.10	43.33 QP	46.00	-2.67	1.25 H	49	16.48	26.86

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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK for 802.11g	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6.0Mbps	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	22deg. C, 62% RH, 991hPa	TEST MODE	A
TESTED BY	Brad Wu		

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	55.27	35.58 QP	40.00	-4.42	1.50 V	118	21.67	13.91
2	82.48	36.14 QP	40.00	-3.86	1.00 V	43	26.01	10.13
3	125.25	38.78 QP	43.50	-4.72	1.00 V	175	27.25	11.54
4	162.84	40.17 QP	43.50	-3.33	1.00 V	345	27.11	13.06
5	175.00	42.48 QP	43.50	-1.02	1.00 V	181	30.27	12.21
6	200.00	42.21 QP	43.50	-1.29	1.25 V	342	31.45	10.76
7	284.65	44.39 QP	46.00	-1.61	1.50 V	256	29.63	14.76
8	337.13	41.39 QP	46.00	-4.61	1.00 V	130	25.45	15.94
9	428.50	43.86 QP	46.00	-2.14	1.00 V	187	25.55	18.31

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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK for 802.11g	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6.0Mbps	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	22deg. C, 63% RH, 991hPa	TEST MODE	B
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	123.31	42.09 QP	43.50	-1.41	1.75 H	100	30.80	11.28
2	156.35	42.24 QP	43.50	-1.26	1.75 H	100	28.94	13.30
3	168.02	41.58 QP	43.50	-1.92	1.75 H	157	28.88	12.70
4	201.06	42.37 QP	43.50	-1.13	1.75 H	157	31.58	10.79
5	280.76	44.48 QP	46.00	-1.52	1.75 H	124	29.89	14.59
6	315.75	44.74 QP	46.00	-1.26	1.00 H	76	29.09	15.65
7	426.55	43.47 QP	46.00	-2.53	1.50 H	148	25.20	18.28
8	782.28	42.78 QP	46.00	-3.22	1.25 H	91	16.79	25.99
9	834.77	41.82 QP	46.00	-4.18	1.75 H	124	15.27	26.55
10	871.70	42.17 QP	46.00	-3.83	1.75 H	94	15.12	27.05
11	928.08	42.99 QP	46.00	-3.01	1.75 H	124	14.22	28.76
12	972.79	48.02 QP	54.00	-5.98	1.00 H	151	18.72	29.29

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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK for 802.11g	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6.0Mbps	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	22deg. C, 63% RH, 991hPa	TEST MODE	B
TESTED BY	Brad Wu		

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	37.78	34.48 QP	40.00	-5.52	1.25 V	211	20.64	13.85
2	80.54	38.36 QP	40.00	-1.64	1.00 V	16	27.95	10.41
3	169.00	42.38 QP	43.50	-1.12	1.00 V	88	29.76	12.63
4	200.00	41.67 QP	43.50	-1.83	1.02 V	205	30.91	10.76
5	333.25	42.72 QP	46.00	-3.28	1.00 V	121	26.83	15.89
6	397.39	41.74 QP	46.00	-4.26	1.25 V	136	24.03	17.71
7	434.33	40.02 QP	46.00	-5.98	1.25 V	211	21.60	18.42
8	609.28	41.86 QP	46.00	-4.14	1.00 V	16	19.20	22.66
9	743.41	41.73 QP	46.00	-4.27	1.25 V	139	16.16	25.57
10	774.51	40.96 QP	46.00	-5.04	1.25 V	139	15.01	25.94
11	784.23	42.20 QP	46.00	-3.80	1.00 V	169	16.20	26.01
12	817.27	41.83 QP	46.00	-4.17	1.00 V	100	15.50	26.33
13	937.80	42.11 QP	46.00	-3.89	1.00 V	307	12.89	29.22
14	980.56	48.79 QP	54.00	-5.21	1.25 V	142	19.66	29.13

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

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	22deg. C, 62% RH, 991hPa	TEST MODE	A
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	125.25	41.26 QP	43.50	-2.24	1.00 H	28	29.73	11.54
2	160.24	41.95 QP	43.50	-1.55	1.25 H	46	28.71	13.24
3	162.18	41.28 QP	43.50	-2.22	1.00 H	130	28.18	13.11
4	199.12	42.35 QP	43.50	-1.15	1.50 H	142	31.54	10.81
5	269.10	44.80 QP	46.00	-1.20	1.00 H	139	30.84	13.96
6	319.64	44.34 QP	46.00	-1.66	1.00 H	61	28.64	15.70
7	344.91	42.37 QP	46.00	-3.63	1.00 H	166	26.32	16.05
8	403.23	41.25 QP	46.00	-4.75	1.00 H	64	23.39	17.86
9	601.50	41.05 QP	46.00	-4.95	1.75 H	64	18.48	22.57
10	624.83	41.02 QP	46.00	-4.98	1.00 H	130	18.19	22.83
11	741.46	42.71 QP	46.00	-3.29	1.00 H	103	17.20	25.50
12	788.12	41.09 QP	46.00	-4.91	1.00 H	142	15.06	26.03
13	832.83	42.28 QP	46.00	-3.72	1.25 H	166	15.76	26.52
14	854.21	41.38 QP	46.00	-4.62	1.00 H	139	14.58	26.80
15	906.69	44.09 QP	46.00	-1.91	1.00 H	28	16.32	27.76

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

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	22deg. C, 62% RH, 991hPa	TEST MODE	A
TESTED BY	Brad Wu		

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	55.27	36.14 QP	40.00	-3.86	1.25 V	334	22.23	13.91
2	70.82	36.15 QP	40.00	-3.85	1.00 V	112	24.61	11.54
3	125.25	41.79 QP	43.50	-1.71	1.25 V	34	30.25	11.54
4	160.24	42.26 QP	43.50	-1.24	1.00 V	61	29.02	13.24
5	169.96	42.15 QP	43.50	-1.35	1.00 V	112	29.59	12.56
6	199.12	42.06 QP	43.50	-1.44	1.50 V	70	31.25	10.81
7	331.30	41.32 QP	46.00	-4.68	1.00 V	70	25.46	15.86
8	603.45	44.55 QP	46.00	-1.45	1.25 V	304	21.96	22.59
9	626.77	41.33 QP	46.00	-4.67	1.00 V	88	18.47	22.86
10	716.19	40.51 QP	46.00	-5.49	1.00 V	334	15.84	24.67
11	743.41	41.07 QP	46.00	-4.93	1.75 V	115	15.50	25.57
12	755.07	42.98 QP	46.00	-3.02	1.00 V	88	17.16	25.82
13	788.12	43.85 QP	46.00	-2.15	1.00 V	70	17.81	26.03
14	817.27	40.42 QP	46.00	-5.58	1.00 V	88	14.10	26.33
15	858.10	41.32 QP	46.00	-4.68	1.50 V	304	14.46	26.86

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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK for draft 802.11n (40MHz)	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	15.0Mbps	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	22deg. C, 62% RH, 991hPa	TEST MODE	A
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	125.25	42.45 QP	43.50	-1.05	1.50 H	64	30.91	11.54
2	160.24	41.69 QP	43.50	-1.81	1.50 H	133	28.45	13.24
3	162.18	41.81 QP	43.50	-1.69	1.25 H	127	28.70	13.11
4	199.12	42.12 QP	43.50	-1.38	1.00 H	136	31.31	10.81
5	276.87	44.95 QP	46.00	-1.05	1.00 H	157	30.54	14.41
6	323.53	44.88 QP	46.00	-1.12	1.75 H	64	29.13	15.75
7	344.91	43.79 QP	46.00	-2.21	1.00 H	169	27.74	16.05
8	405.17	42.80 QP	46.00	-3.20	1.00 H	142	24.91	17.89
9	766.73	41.50 QP	46.00	-4.50	1.00 H	145	15.61	25.89
10	815.33	43.84 QP	46.00	-2.16	1.25 H	127	17.54	26.30
11	858.10	43.94 QP	46.00	-2.06	1.00 H	142	17.08	26.86
12	881.42	44.62 QP	46.00	-1.38	1.50 H	136	17.43	27.19
13	926.13	44.89 QP	46.00	-1.11	1.00 H	169	16.22	28.67

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK for draft 802.11n (40MHz)	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	15.0Mbps	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	22deg. C, 62% RH, 991hPa	TEST MODE	A
TESTED BY	Brad Wu		

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	55.27	36.46 QP	40.00	-3.54	1.25 V	55	22.55	13.91
2	70.82	36.93 QP	40.00	-3.07	1.25 V	130	25.39	11.54
3	125.25	42.25 QP	43.50	-1.25	1.50 V	343	30.71	11.54
4	160.24	42.21 QP	43.50	-1.29	1.25 V	49	28.97	13.24
5	168.02	41.72 QP	43.50	-1.78	1.00 V	298	29.02	12.70
6	199.12	42.42 QP	43.50	-1.08	1.25 V	64	31.61	10.81
7	276.87	43.26 QP	46.00	-2.74	1.00 V	304	28.84	14.41
8	323.53	41.86 QP	46.00	-4.14	1.00 V	343	26.10	15.75
9	447.94	41.92 QP	46.00	-4.08	1.00 V	247	23.26	18.66
10	578.18	44.15 QP	46.00	-1.85	1.00 V	211	22.28	21.87
11	601.50	42.97 QP	46.00	-3.03	1.50 V	85	20.40	22.57
12	720.08	42.33 QP	46.00	-3.67	1.00 V	343	17.53	24.80
13	739.52	44.40 QP	46.00	-1.60	1.00 V	247	18.96	25.44
14	770.62	42.16 QP	46.00	-3.84	1.00 V	247	16.24	25.92
15	788.12	43.13 QP	46.00	-2.87	1.75 V	64	17.10	26.03

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:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	1.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 64% 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	43.95 PK	74.00	-30.05	1.28 H	348	11.84	32.11
1	2390.00	39.45 AV	54.00	-14.55	1.28 H	348	7.34	32.11
2	*2412.00	104.08 PK			1.28 H	348	71.89	32.19
2	*2412.00	99.58 AV			1.28 H	348	67.39	32.19
3	4824.00	54.81 PK	74.00	-19.19	1.41 H	13	16.16	38.65
3	4824.00	50.17 AV	54.00	-3.83	1.41 H	13	11.52	38.65
4	7236.00	59.94 PK	84.08	-24.14	1.16 H	354	14.73	45.21
4	7236.00	51.96 AV	79.58	-27.62	1.16 H	354	6.75	45.21

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	2390.00	57.36 PK	74.00	-16.64	1.26 V	341	25.25	32.11
1	2390.00	52.69 AV	54.00	-1.31	1.26 V	341	20.58	32.11
2	*2412.00	116.89 PK			1.26 V	341	84.70	32.19
2	*2412.00	112.22 AV			1.26 V	341	80.03	32.19
3	4824.00	55.65 PK	74.00	-18.35	1.23 V	12	17.00	38.65
3	4824.00	52.20 AV	54.00	-1.80	1.23 V	12	13.55	38.65
4	7236.00	60.32 PK	96.89	-36.57	1.00 V	60	15.11	45.21
4	7236.00	52.28 AV	92.22	-39.94	1.00 V	60	7.07	45.21

- 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.
 5. The limit value is defined as per 15.247.
 6. “ * “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	1.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 64% 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	103.54 PK			1.26 H	347	71.25	32.29
1	*2437.00	99.04 AV			1.26 H	347	66.75	32.29
2	4874.00	53.24 PK	74.00	-20.76	1.26 H	15	14.45	38.79
2	4874.00	46.09 AV	54.00	-7.91	1.26 H	15	7.30	38.79
3	7311.00	61.79 PK	74.00	-12.21	1.42 H	356	16.38	45.41
3	7311.00	52.17 AV	54.00	-1.83	1.42 H	356	6.76	45.41

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	116.04 PK			1.25 V	347	83.75	32.29
1	*2437.00	111.59 AV			1.25 V	347	79.30	32.29
2	4874.00	55.16 PK	74.00	-18.84	1.21 V	13	16.37	38.79
2	4874.00	50.13 AV	54.00	-3.87	1.21 V	13	11.34	38.79
3	7311.00	61.39 PK	74.00	-12.61	1.68 V	59	15.98	45.41
3	7311.00	52.68 AV	54.00	-1.32	1.68 V	59	7.27	45.41

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	1.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 64% 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	103.75 PK			1.27 H	345	71.37	32.38
1	*2462.00	99.24 AV			1.27 H	345	66.86	32.38
2	2500.00	44.56 PK	74.00	-29.44	1.27 H	345	12.04	32.52
2	2500.00	40.05 AV	54.00	-13.95	1.27 H	345	7.53	32.52
3	4924.00	53.76 PK	74.00	-20.24	1.09 H	24	14.84	38.92
3	4924.00	49.03 AV	54.00	-4.97	1.09 H	24	10.11	38.92
4	7386.00	59.42 PK	74.00	-14.58	1.07 H	221	13.83	45.59
4	7386.00	51.43 AV	54.00	-2.57	1.07 H	221	5.84	45.59

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	116.61 PK			1.22 V	350	84.23	32.38
1	*2462.00	112.06 AV			1.22 V	350	79.68	32.38
2	2500.00	63.23 PK	74.00	-10.77	1.21 V	13	30.71	32.52
2	2500.00	52.87 AV	54.00	-1.13	1.21 V	13	20.35	32.52
3	4924.00	55.11 PK	74.00	-18.89	1.21 V	24	16.19	38.92
3	4924.00	51.78 AV	54.00	-2.22	1.21 V	24	12.86	38.92
4	7386.00	60.14 PK	74.00	-13.86	1.66 V	67	14.55	45.59
4	7386.00	52.17 AV	54.00	-1.83	1.66 V	67	6.58	45.59

- 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:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 64% 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	50.21 PK	74.00	-23.79	1.02 H	46	18.10	32.11
1	2390.00	38.00 AV	54.00	-16.00	1.02 H	46	5.89	32.11
2	*2412.00	100.95 PK			1.02 H	46	68.76	32.19
2	*2412.00	88.74 AV			1.02 H	46	56.55	32.19
3	4824.00	50.27 PK	74.00	-23.73	1.09 H	245	11.62	38.65
3	4824.00	37.18 AV	54.00	-16.82	1.09 H	245	-1.47	38.65
4	7236.00	52.34 PK	80.95	-28.61	1.03 H	210	7.13	45.21
4	7236.00	41.88 AV	68.74	-26.86	1.03 H	210	-3.33	45.21

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	2390.00	68.47 PK	74.00	-5.53	1.26 V	202	36.36	32.11
1	2390.00	52.17 AV	54.00	-1.83	1.26 V	202	20.06	32.11
2	*2412.00	115.02 PK			1.24 V	28	82.83	32.19
2	*2412.00	102.91 AV			1.24 V	28	70.72	32.19
3	4824.00	52.76 PK	74.00	-21.24	1.10 V	203	14.11	38.65
3	4824.00	39.58 AV	54.00	-14.42	1.10 V	203	0.93	38.65
4	7236.00	54.43 PK	95.02	-40.59	1.03 V	208	9.22	45.21
4	7236.00	43.95 AV	82.91	-38.96	1.03 V	208	-1.26	45.21

- 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.
 5. The limit value is defined as per 15.247.
 6. “ * ”: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 64% 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	102.24 PK			1.05 H	73	69.95	32.29
1	*2437.00	90.11 AV			1.05 H	73	57.82	32.29
2	4874.00	51.69 PK	74.00	-22.31	1.14 H	266	12.90	38.79
2	4874.00	38.67 AV	54.00	-15.33	1.14 H	266	-0.12	38.79
3	7311.00	54.68 PK	74.00	-19.32	1.06 H	84	9.27	45.41
3	7311.00	44.25 AV	54.00	-9.75	1.06 H	84	-1.16	45.41

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	116.24 PK			1.23 V	16	83.95	32.29
1	*2437.00	104.15 AV			1.23 V	16	71.86	32.29
2	4874.00	54.93 PK	74.00	-19.07	1.02 V	199	16.14	38.79
2	4874.00	41.82 AV	54.00	-12.18	1.02 V	199	3.03	38.79
3	7311.00	59.64 PK	74.00	-14.36	1.19 V	216	14.23	45.41
3	7311.00	49.26 AV	54.00	-4.74	1.19 V	216	3.85	45.41

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 64% 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	101.13 PK			1.03 H	51	68.75	32.38
1	*2462.00	88.96 AV			1.03 H	51	56.58	32.38
2	2483.50	50.37 PK	74.00	-23.63	1.03 H	51	17.91	32.46
2	2483.50	38.20 AV	54.00	-15.80	1.03 H	51	5.74	32.46
3	4924.00	50.16 PK	74.00	-23.84	1.10 H	239	11.24	38.92
3	4924.00	37.04 AV	54.00	-16.96	1.10 H	239	-1.88	38.92
4	7386.00	52.18 PK	74.00	-21.82	1.06 H	227	6.59	45.59
4	7386.00	41.72 AV	54.00	-12.28	1.06 H	227	-3.87	45.59

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	115.04 PK			1.22 V	14	82.66	32.38
1	*2462.00	102.94 AV			1.22 V	14	70.56	32.38
2	2483.50	66.28 PK	74.00	-7.72	1.22 V	14	33.82	32.46
2	2483.50	52.18 AV	54.00	-1.82	1.22 V	14	19.72	32.46
3	4924.00	52.56 PK	74.00	-21.44	1.12 V	217	13.64	38.92
3	4924.00	39.33 AV	54.00	-14.67	1.12 V	217	0.41	38.92
4	7386.00	54.31 PK	74.00	-19.69	1.01 V	214	8.71	45.59
4	7386.00	43.80 AV	54.00	-10.20	1.01 V	214	-1.80	45.59

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:

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	22deg. C, 64% 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	56.92 PK	74.00	-17.08	1.17 H	5	24.81	32.11
1	2390.00	38.65 AV	54.00	-15.35	1.17 H	5	6.54	32.11
2	*2412.00	100.91 PK			1.17 H	5	68.72	32.19
2	*2412.00	88.66 AV			1.17 H	5	56.47	32.19
3	4824.00	50.39 PK	74.00	-23.61	1.12 H	63	11.74	38.65
3	4824.00	37.31 AV	54.00	-16.69	1.12 H	63	-1.34	38.65
4	7236.00	52.47 PK	80.91	-28.44	1.01 H	229	7.26	45.21
4	7236.00	42.07 AV	68.66	-26.59	1.01 H	229	-3.14	45.21

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	2390.00	71.22 PK	74.00	-2.78	1.00 V	180	39.11	32.11
1	2390.00	52.87 AV	54.00	-1.13	1.00 V	180	20.76	32.11
2	*2412.00	115.21 PK			1.00 V	202	83.02	32.19
2	*2412.00	102.88 AV			1.00 V	202	70.69	32.19
3	4824.00	52.89 PK	74.00	-21.11	1.03 V	217	14.24	38.65
3	4824.00	39.71 AV	54.00	-14.29	1.03 V	217	1.06	38.65
4	7236.00	54.69 PK	95.21	-40.52	1.06 V	271	9.48	45.21
4	7236.00	44.18 AV	82.88	-38.70	1.06 V	271	-1.03	45.21

- 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.
 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	22deg. C, 64% 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	103.24 PK			1.16 H	8	70.95	32.29
1	*2437.00	90.94 AV			1.16 H	8	58.65	32.29
2	4874.00	51.46 PK	74.00	-22.54	1.10 H	74	12.67	38.79
2	4874.00	38.43 AV	54.00	-15.57	1.10 H	74	-0.36	38.79
3	7311.00	54.69 PK	74.00	-19.31	1.09 H	247	9.28	45.41
3	7311.00	44.22 AV	54.00	-9.78	1.09 H	247	-1.19	45.41

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	117.65 PK			1.00 V	187	85.36	32.29
1	*2437.00	105.11 AV			1.00 V	187	72.82	32.29
2	4874.00	54.26 PK	74.00	-19.74	1.05 V	226	15.47	38.79
2	4874.00	41.18 AV	54.00	-12.82	1.05 V	226	2.39	38.79
3	7311.00	59.83 PK	74.00	-14.17	1.01 V	285	14.42	45.41
3	7311.00	49.36 AV	54.00	-4.64	1.01 V	285	3.95	45.41

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	22deg. C, 64% 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	100.72 PK			1.16 H	7	68.34	32.38
1	*2462.00	88.43 AV			1.16 H	7	56.05	32.38
2	2483.50	56.94 PK	74.00	-17.06	1.16 H	7	24.48	32.46
2	2483.50	38.57 AV	54.00	-15.43	1.16 H	7	6.11	32.46
3	4924.00	50.16 PK	74.00	-23.84	1.10 H	74	11.24	38.92
3	4924.00	37.06 AV	54.00	-16.94	1.10 H	74	-1.86	38.92
4	7386.00	52.23 PK	74.00	-21.77	1.06 H	193	6.63	45.59
4	7386.00	41.84 AV	54.00	-12.16	1.06 H	193	-3.75	45.59

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	115.00 PK			1.01 V	211	82.62	32.38
1	*2462.00	102.64 AV			1.01 V	211	70.26	32.38
2	2483.50	71.22 PK	74.00	-2.78	1.01 V	211	38.76	32.46
2	2483.50	52.78 AV	54.00	-1.22	1.01 V	211	20.32	32.46
3	4924.00	53.12 PK	74.00	-20.88	1.05 V	211	14.20	38.92
3	4924.00	40.06 AV	54.00	-13.94	1.05 V	211	1.14	38.92
4	7386.00	51.87 PK	74.00	-22.13	1.01 V	142	6.27	45.59
4	7386.00	44.36 AV	54.00	-9.64	1.01 V	142	-1.23	45.59

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:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	15.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 64% 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	57.19 PK	74.00	-16.81	1.48 H	77	25.08	32.11
1	2390.00	37.49 AV	54.00	-16.51	1.48 H	77	5.38	32.11
2	*2422.00	94.53 PK			1.48 H	77	62.30	32.23
2	*2422.00	81.00 AV			1.48 H	77	48.77	32.23
3	4844.00	51.26 PK	74.00	-22.74	1.12 H	196	12.56	38.70
3	4844.00	38.03 AV	54.00	-15.97	1.12 H	196	-0.67	38.70
4	7266.00	53.17 PK	74.00	-20.83	1.08 H	236	7.88	45.29
4	7266.00	42.71 AV	54.00	-11.29	1.08 H	236	-2.58	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	2390.00	72.47 PK	74.00	-1.53	1.25 V	172	40.36	32.11
1	2390.00	52.78 AV	54.00	-1.22	1.25 V	172	20.67	32.11
2	*2422.00	109.81 PK			1.00 V	198	77.58	32.23
2	*2422.00	96.29 AV			1.00 V	198	64.06	32.23
3	4844.00	52.47 PK	74.00	-21.53	1.09 V	203	13.77	38.70
3	4844.00	39.28 AV	54.00	-14.72	1.09 V	203	0.58	38.70
4	7266.00	54.32 PK	74.00	-19.68	1.01 V	264	9.03	45.29
4	7266.00	43.86 AV	54.00	-10.14	1.01 V	264	-1.43	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 4	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	15.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 64% 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	51.65 PK	74.00	-22.35	1.47 H	80	19.54	32.11
1	2390.00	35.52 AV	54.00	-18.48	1.47 H	80	3.41	32.11
2	*2437.00	96.75 PK			1.47 H	80	64.46	32.29
2	*2437.00	81.22 AV			1.47 H	80	48.93	32.29
3	2483.50	50.17 PK	74.00	-23.83	1.47 H	80	17.71	32.46
3	2483.50	34.13 AV	54.00	-19.87	1.47 H	80	1.67	32.46
4	4874.00	52.48 PK	74.00	-21.52	1.10 H	203	13.69	38.79
4	4874.00	39.27 AV	54.00	-14.73	1.10 H	203	0.48	38.79
5	7311.00	54.29 PK	74.00	-19.71	1.10 H	245	8.88	45.41
5	7311.00	43.87 AV	54.00	-10.13	1.10 H	245	-1.54	45.41

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.07 PK	74.00	-6.93	1.02 V	181	34.96	32.11
1	2390.00	52.79 AV	54.00	-1.21	1.02 V	181	20.68	32.11
2	*2437.00	112.17 PK			1.00 V	179	79.88	32.29
2	*2437.00	98.49 AV			1.00 V	179	66.20	32.29
3	2483.50	65.59 PK	74.00	-8.41	1.20 V	183	33.13	32.46
3	2483.50	51.40 AV	54.00	-2.60	1.20 V	183	18.94	32.46
4	4874.00	53.69 PK	74.00	-20.31	1.12 V	219	14.90	38.79
4	4874.00	40.51 AV	54.00	-13.49	1.12 V	219	1.72	38.79
5	7311.00	55.47 PK	74.00	-18.53	1.05 V	278	10.06	45.41
5	7311.00	44.97 AV	54.00	-9.03	1.05 V	278	-0.44	45.41

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	15.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 64% 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	*2452.00	94.26 PK			1.45 H	80	61.92	32.34
1	*2452.00	80.75 AV			1.45 H	80	48.41	32.34
2	2483.50	57.04 PK	74.00	-16.96	1.45 H	80	24.58	32.46
2	2483.50	37.39 AV	54.00	-16.61	1.45 H	80	4.93	32.46
3	4904.00	51.13 PK	74.00	-22.87	1.02 H	217	12.26	38.87
3	4904.00	38.02 AV	54.00	-15.98	1.02 H	217	-0.85	38.87
4	7356.00	52.86 PK	74.00	-21.14	1.01 H	298	7.34	45.52
4	7356.00	42.29 AV	54.00	-11.71	1.01 H	298	-3.23	45.52

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	109.58 PK			1.01 V	201	77.24	32.34
1	*2452.00	96.04 AV			1.01 V	201	63.70	32.34
2	2483.50	72.36 PK	74.00	-1.64	1.01 V	201	39.90	32.46
2	2483.50	52.68 AV	54.00	-1.32	1.01 V	201	20.22	32.46
3	4904.00	52.34 PK	74.00	-21.66	1.11 V	198	13.47	38.87
3	4904.00	39.15 AV	54.00	-14.85	1.11 V	198	0.28	38.87
4	7356.00	54.11 PK	74.00	-19.89	1.06 V	277	8.59	45.52
4	7356.00	43.62 AV	54.00	-10.38	1.06 V	277	-1.90	45.52

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

4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
SPECTRUM ANALYZER	FSEK 30	100049	Aug. 14, 2006

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

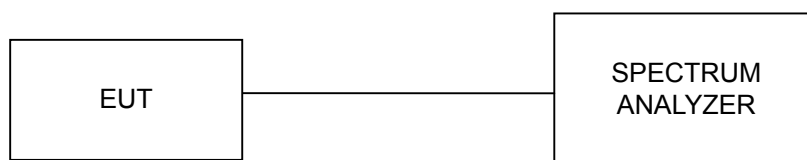
4.3.3 TEST PROCEDURE

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

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITIONS

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

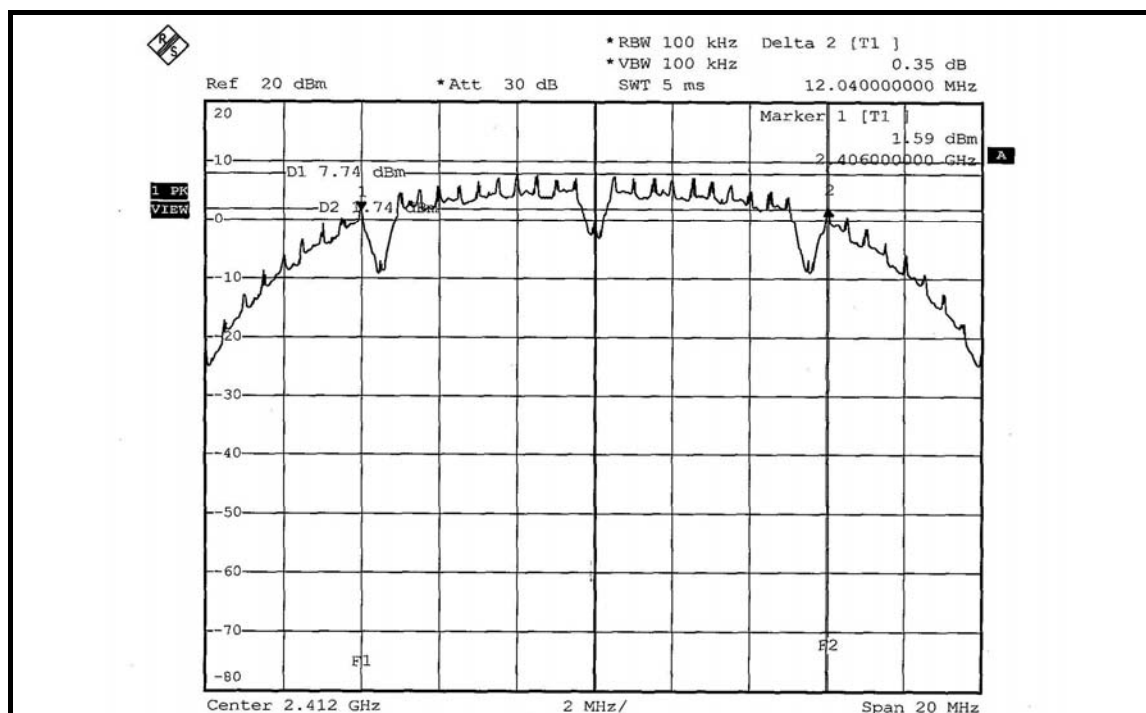
4.3.7 TEST RESULTS

802.11b DSSS MODULATION:

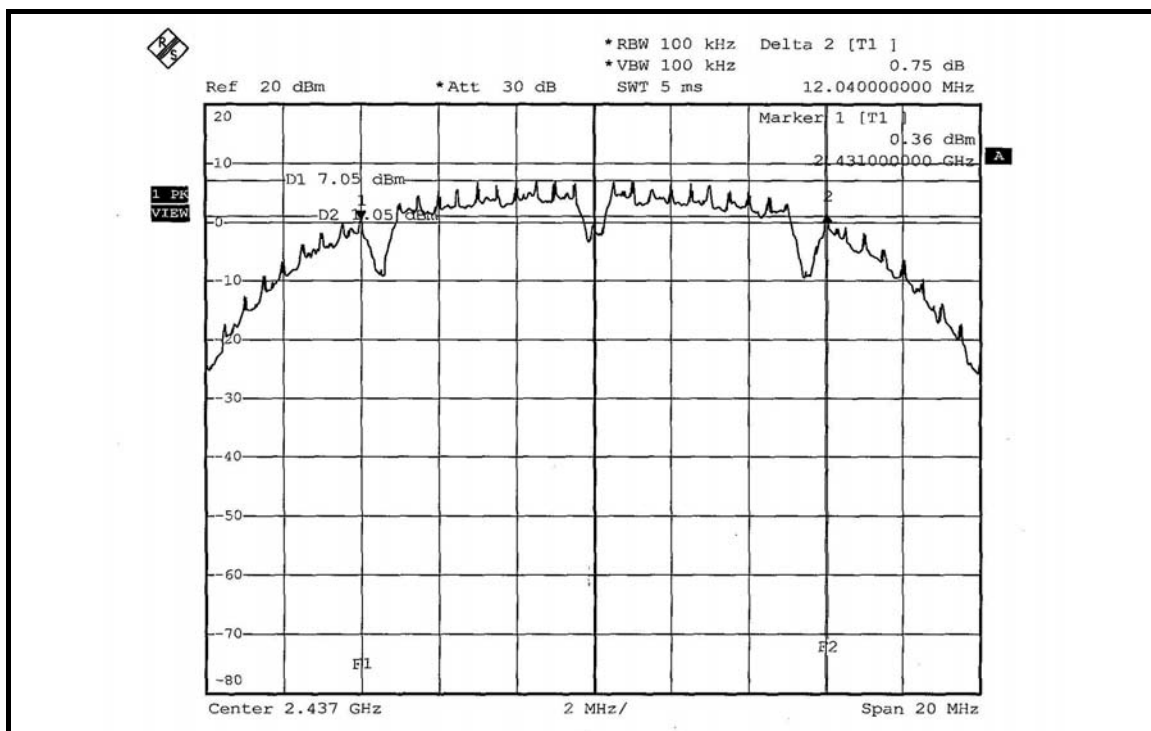
MODULATION TYPE	DBPSK	TRANSFER RATE	1.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 63% RH, 991hPa
TESTED BY	Long Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	12.04	12.04	12.04	0.5	PASS
6	2437	12.04	12.04	12.04	0.5	PASS
11	2462	12.08	12.08	12.08	0.5	PASS

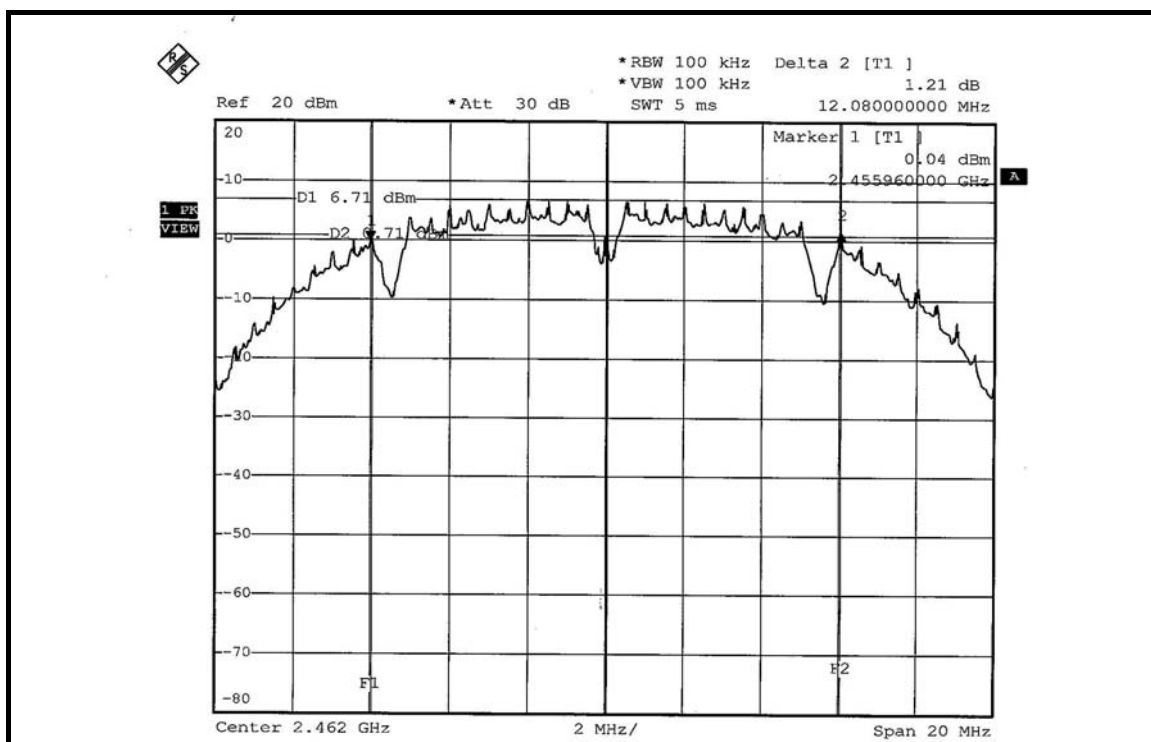
FOR CHAIN 0: CH 1



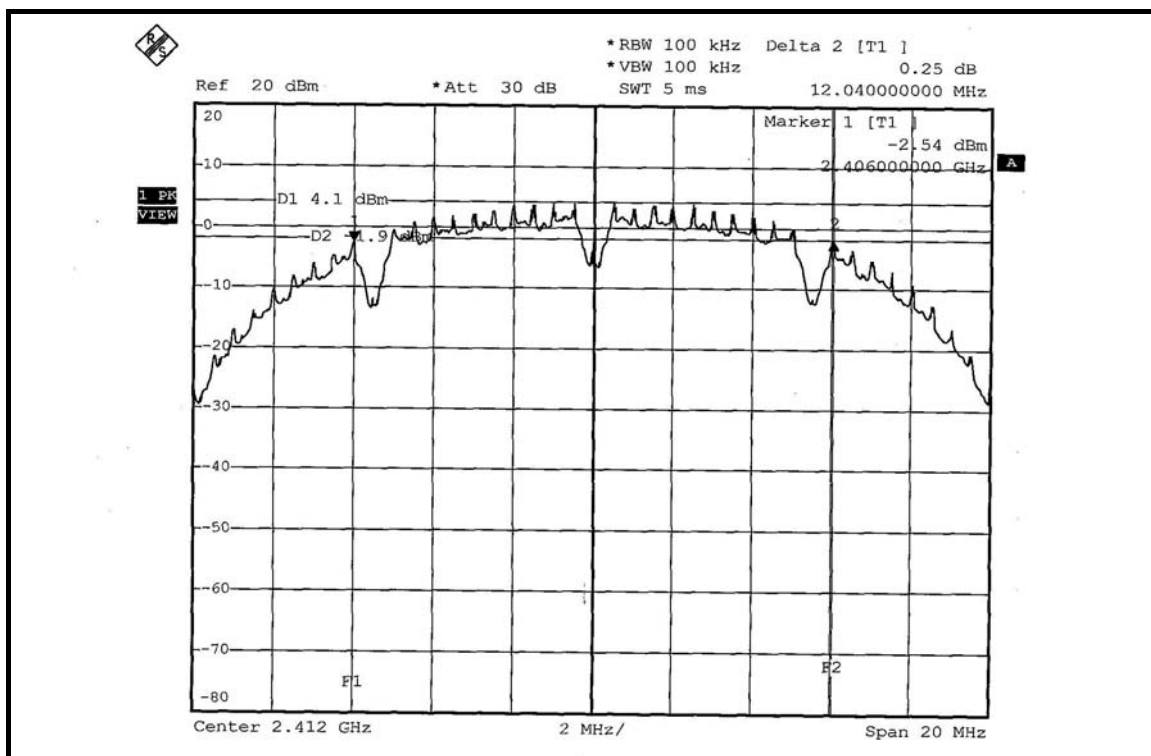
CH 6



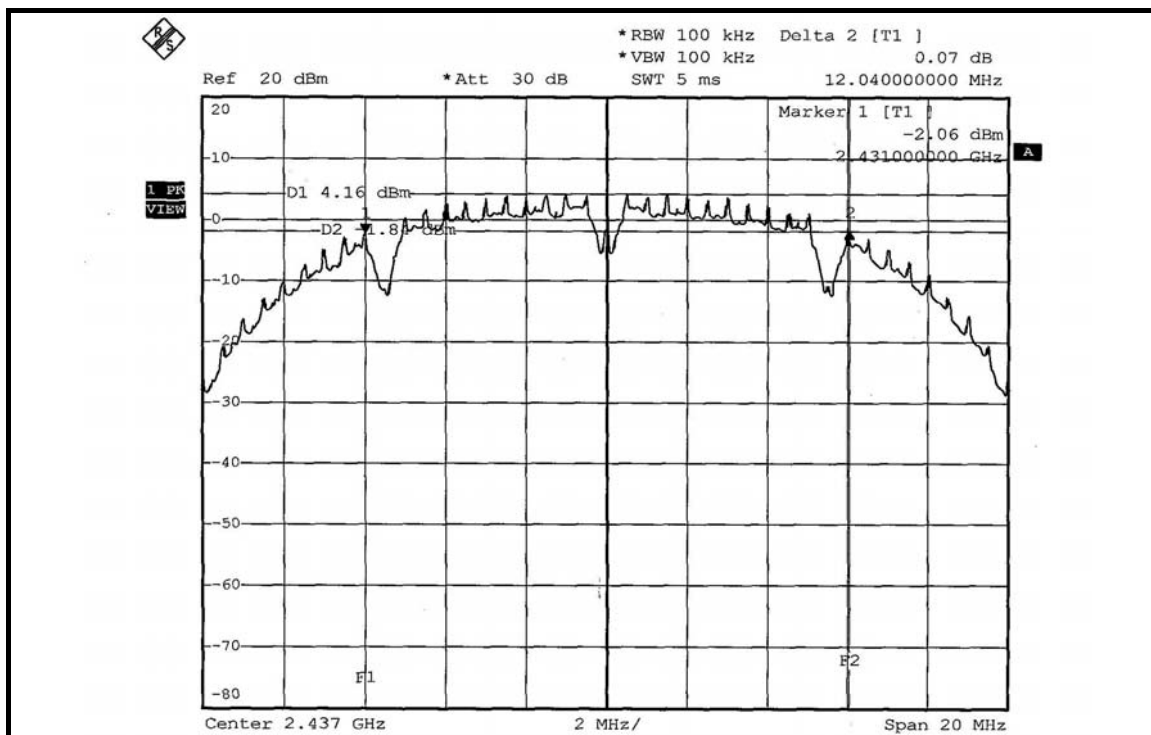
CH 11



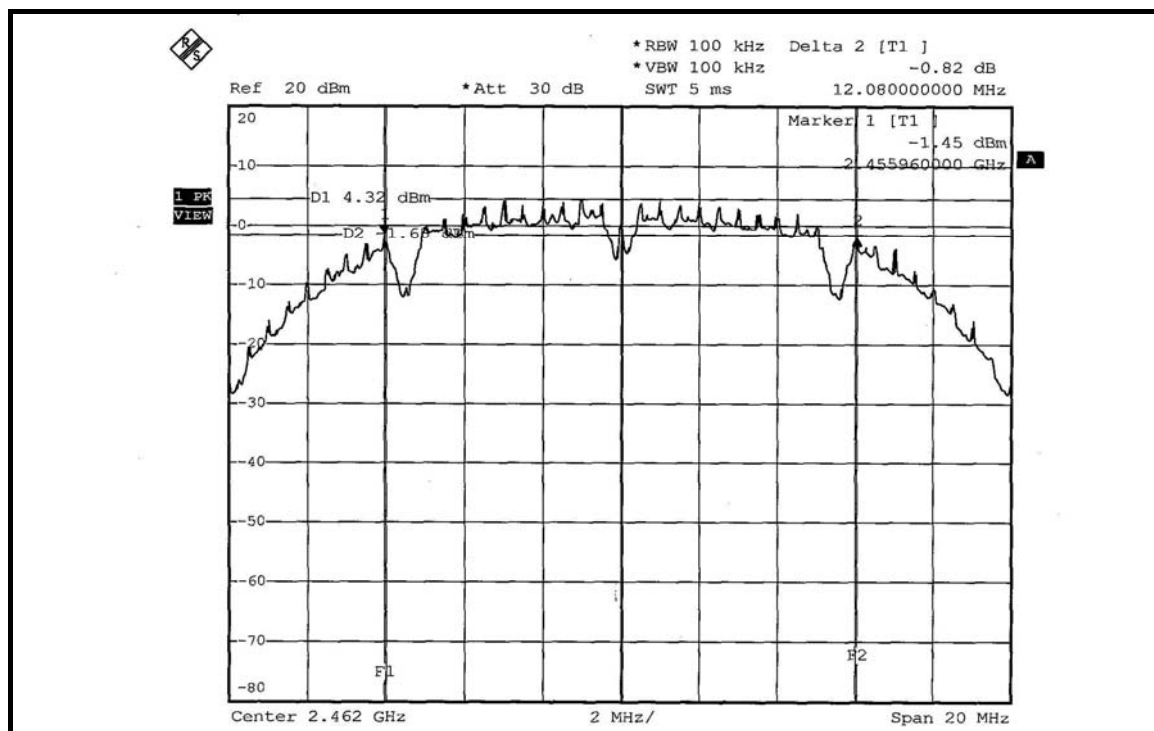
FOR CHAIN 1: CH 1



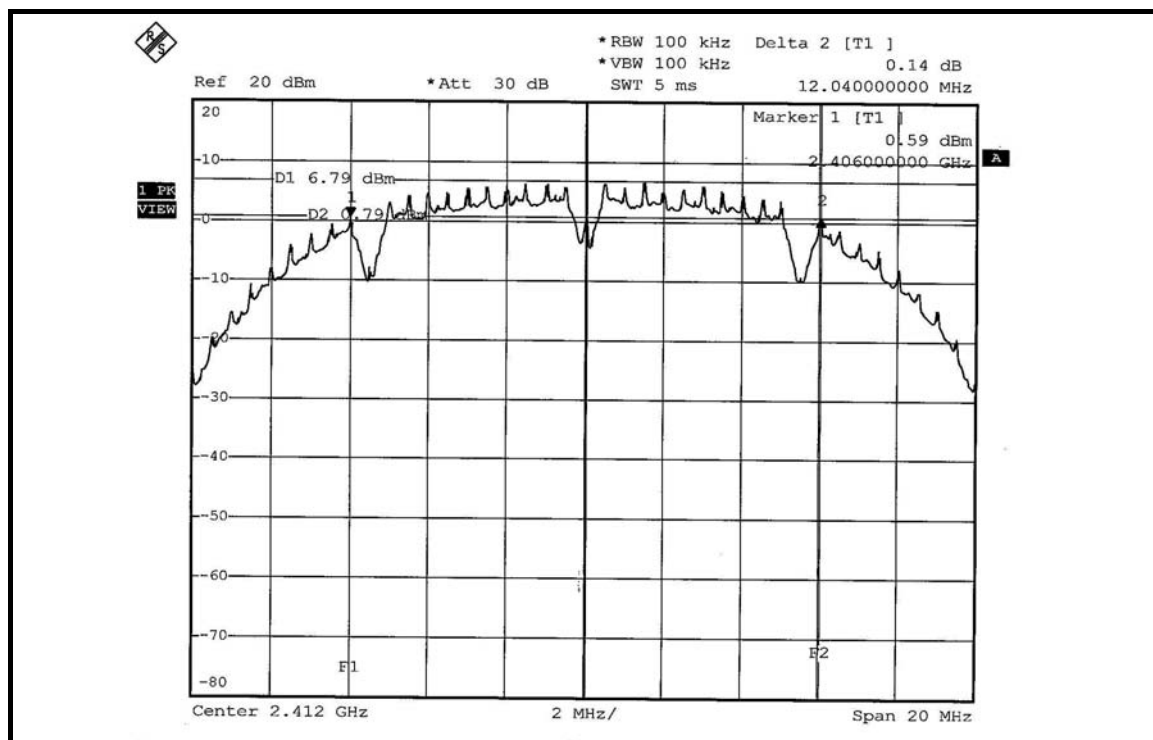
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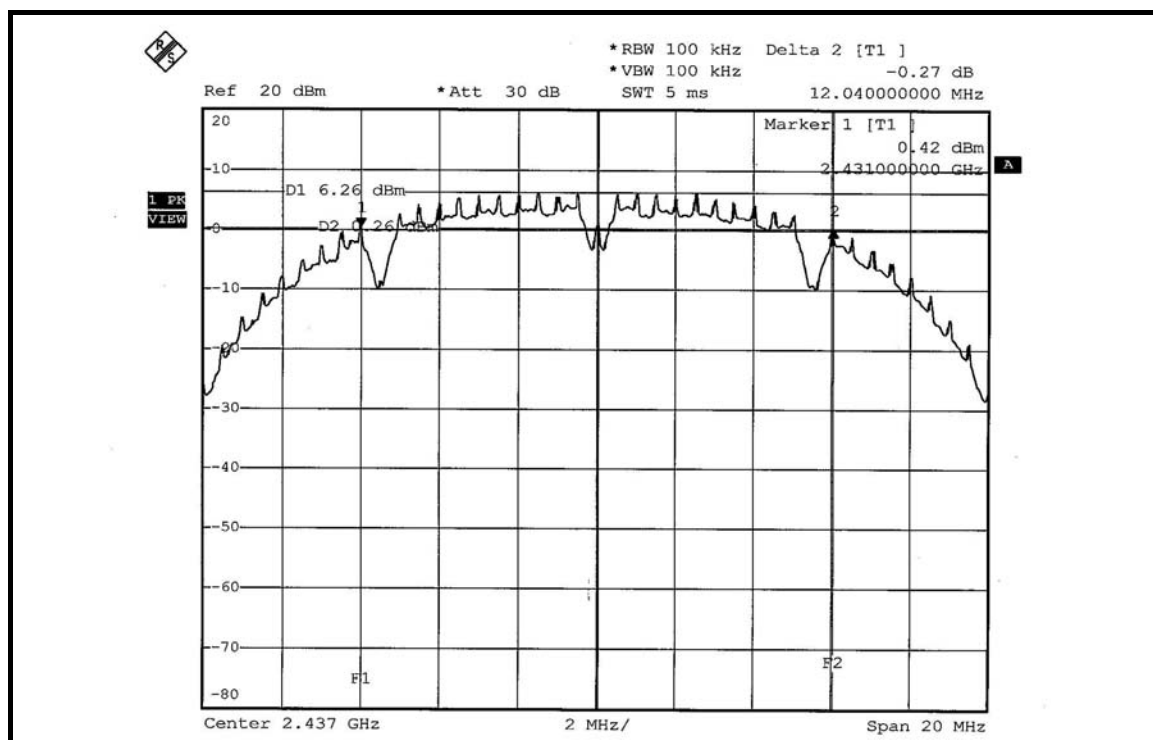
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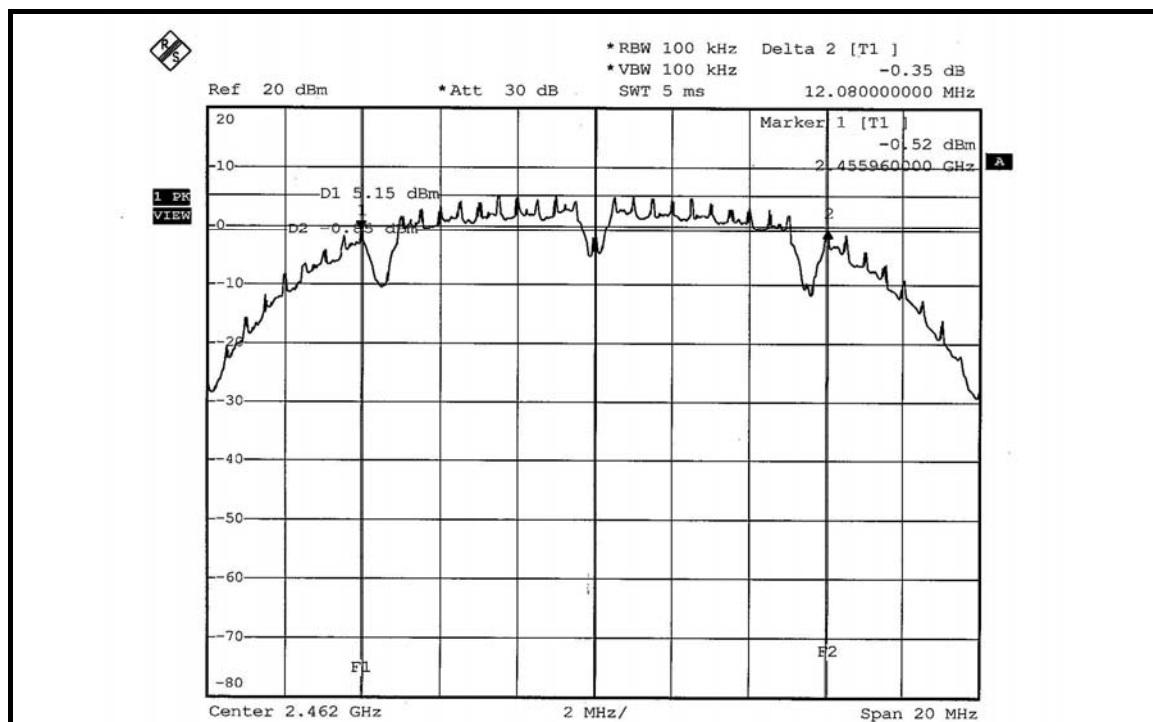
FOR CHAIN 2: CH 1



CH 6



CH 11

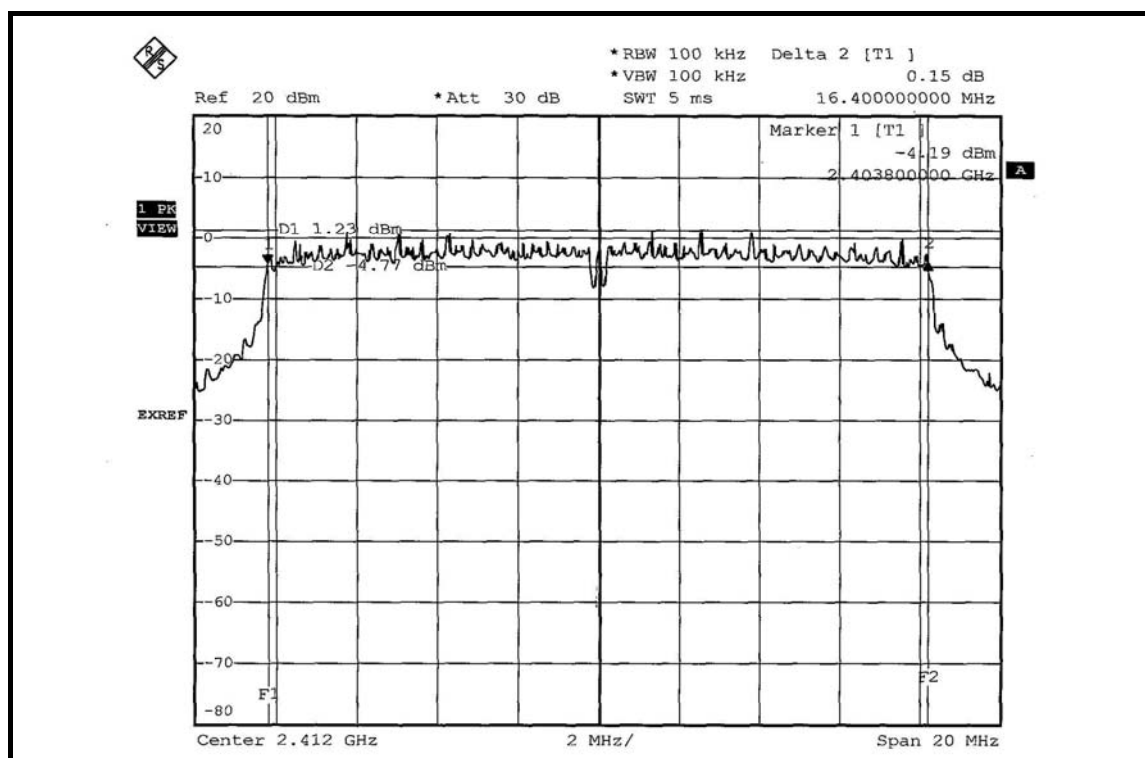


802.11g OFDM MODULATION:

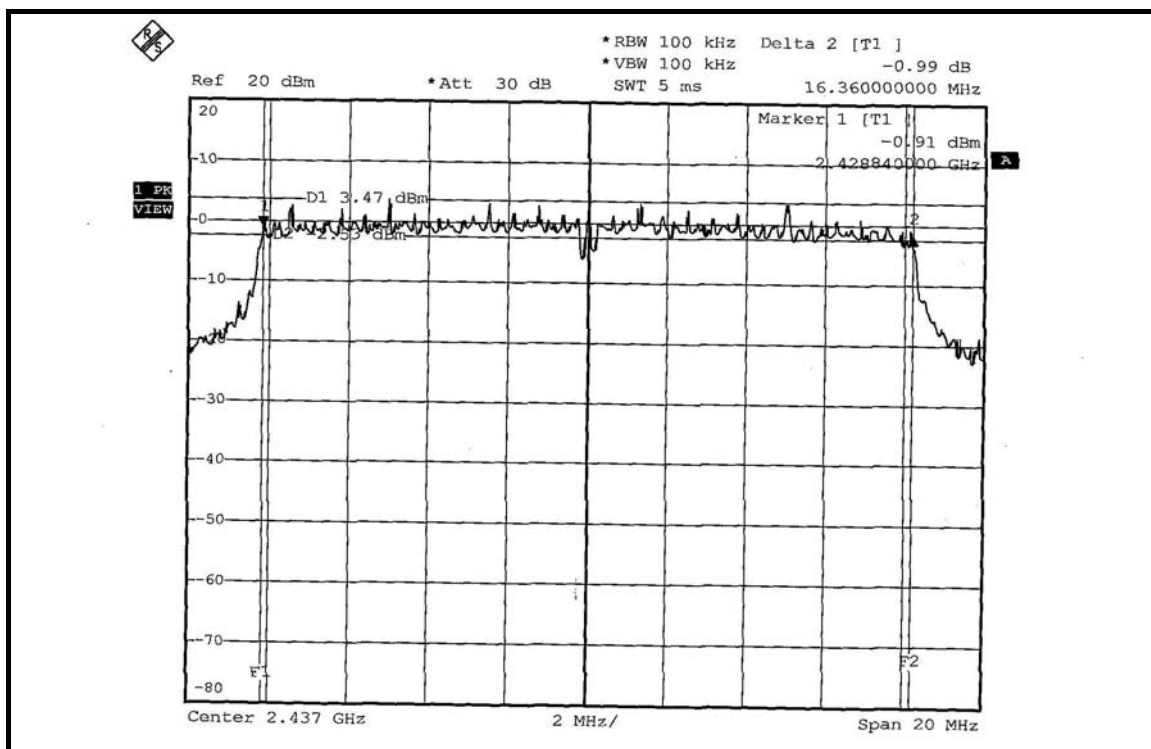
MODULATION TYPE	BPSK	TRANSFER RATE	6.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 63% RH, 991hPa
TESTED BY	Long Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	16.40	16.36	16.36	0.5	PASS
6	2437	16.36	16.40	16.36	0.5	PASS
11	2462	16.40	16.40	16.36	0.5	PASS

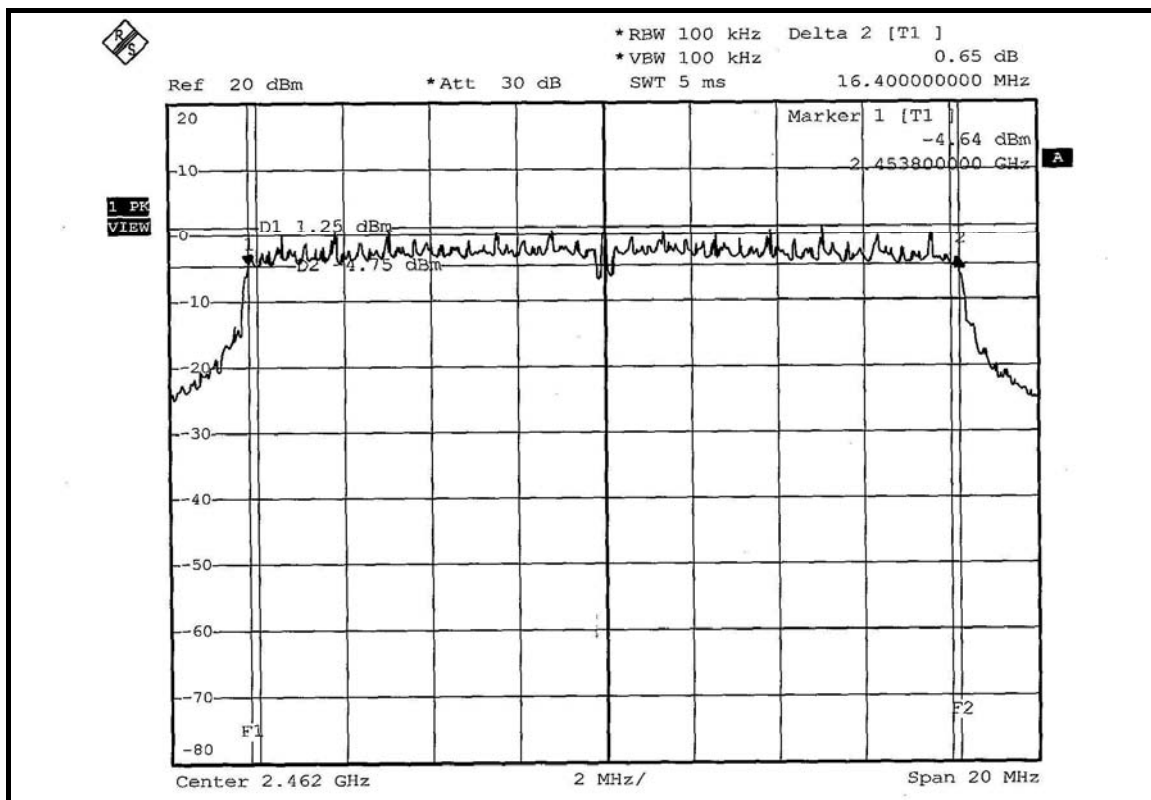
FOR CHAIN 0: CH 1



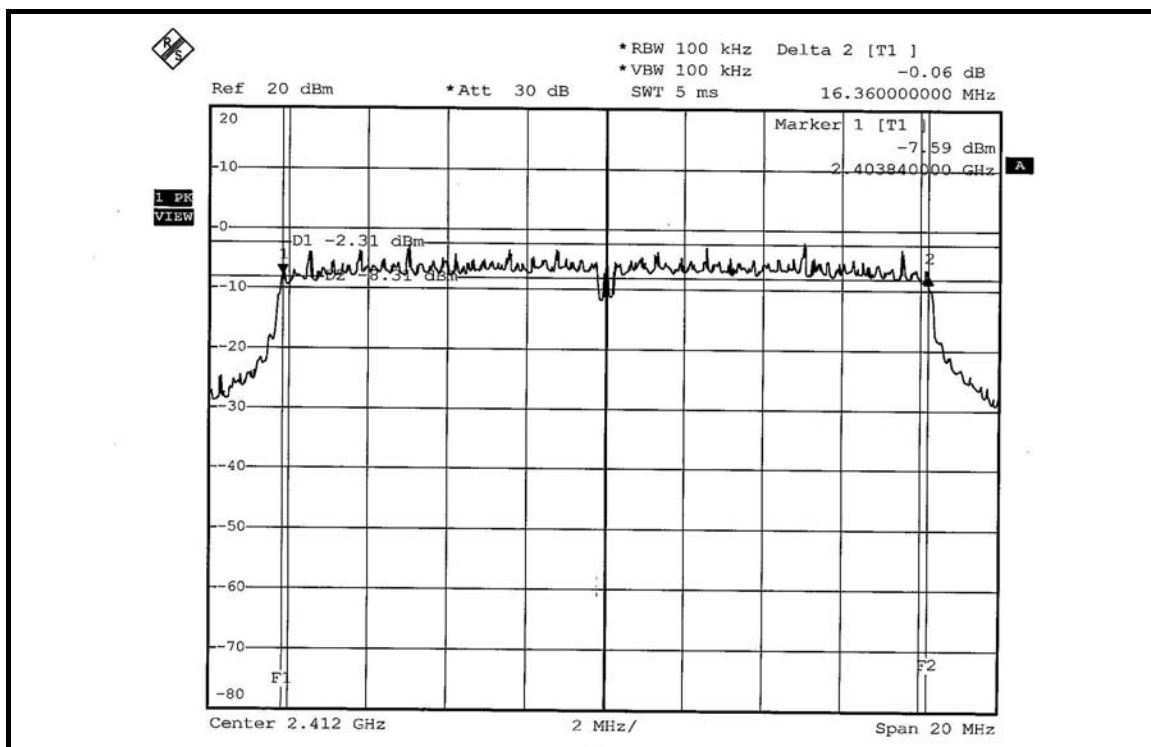
CH 6



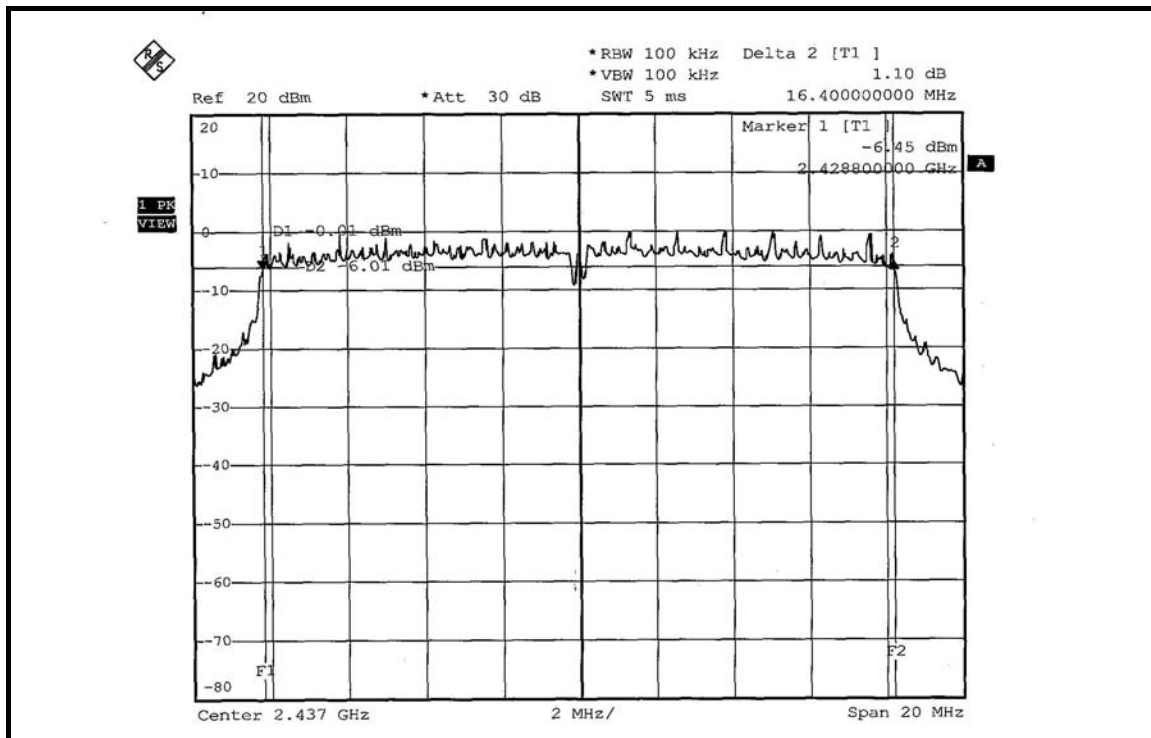
CH 11



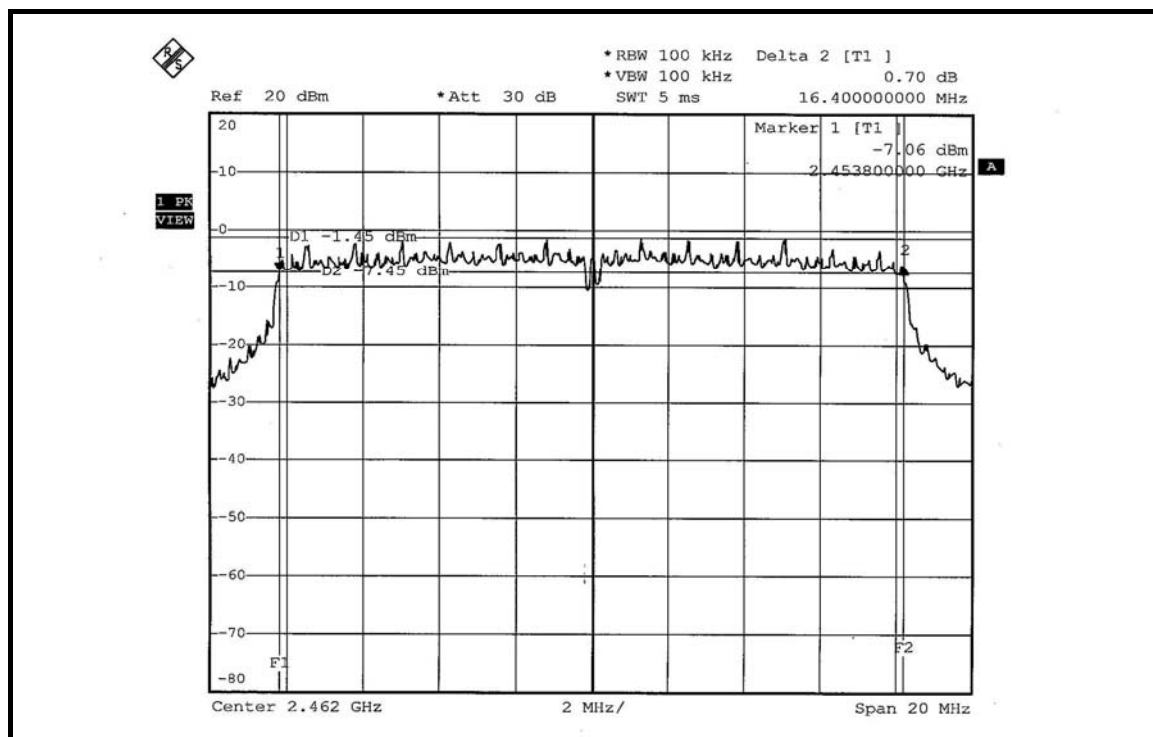
FOR CHAIN 1: CH 1



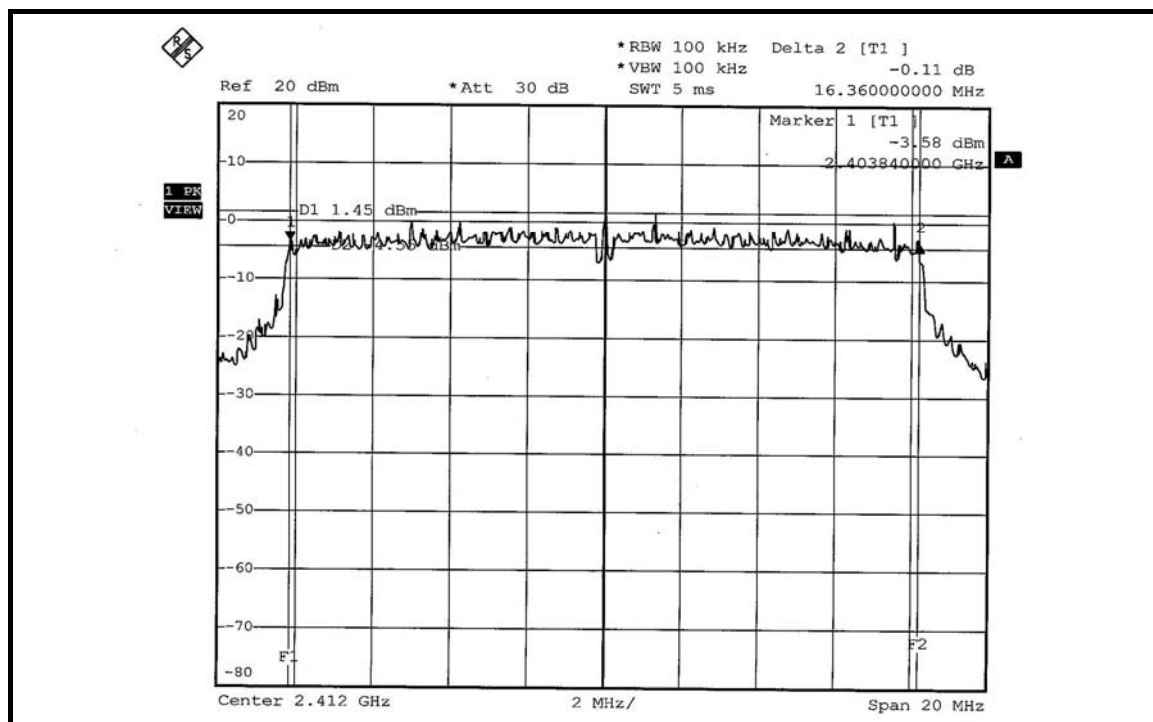
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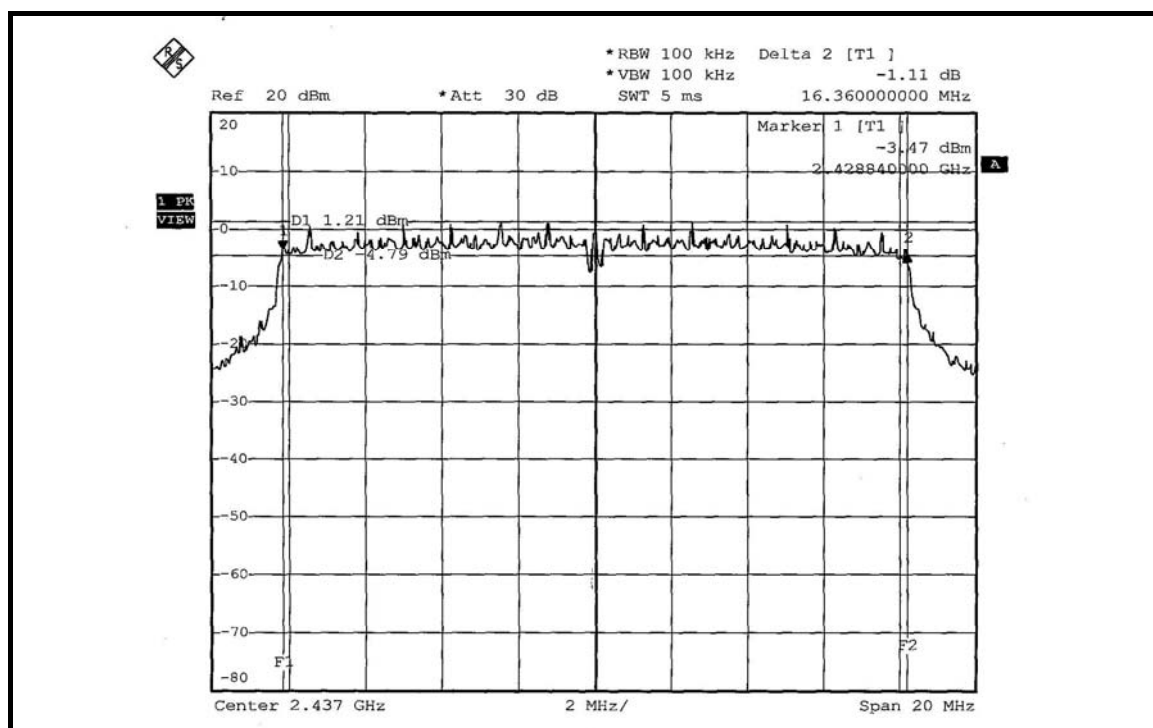
CH 11



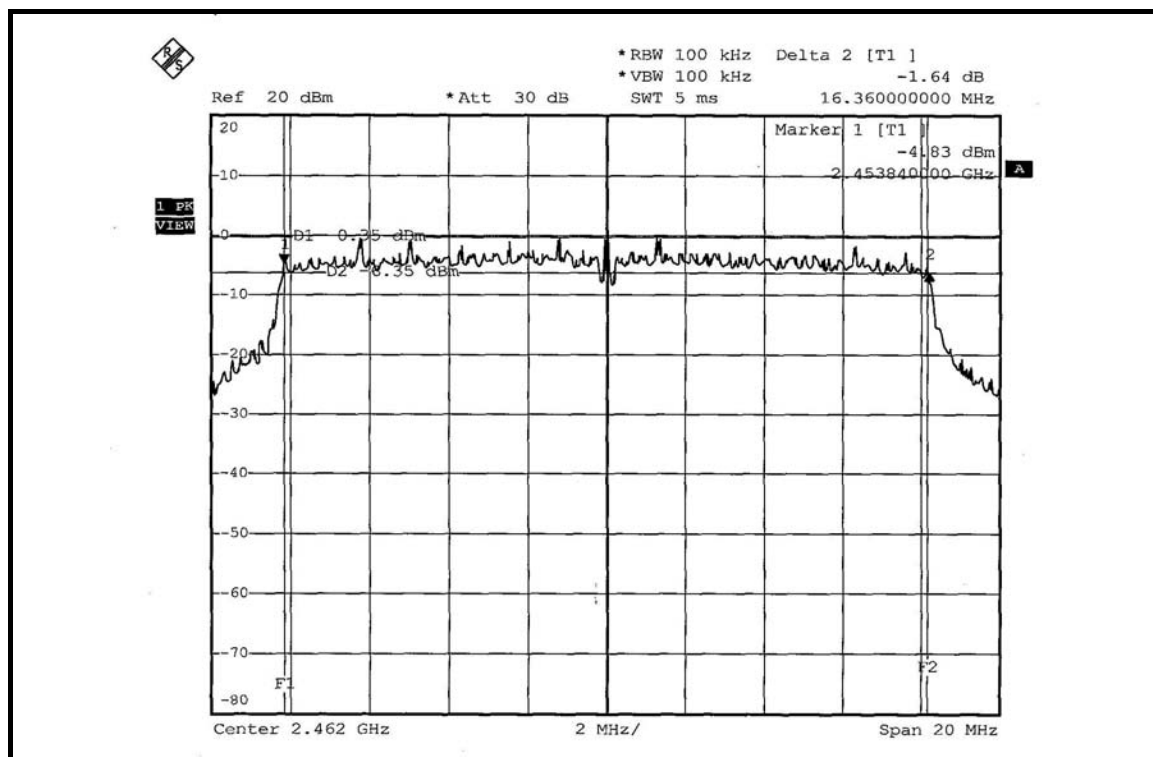
FOR CHAIN 2: CH 1



CH 6



CH 11

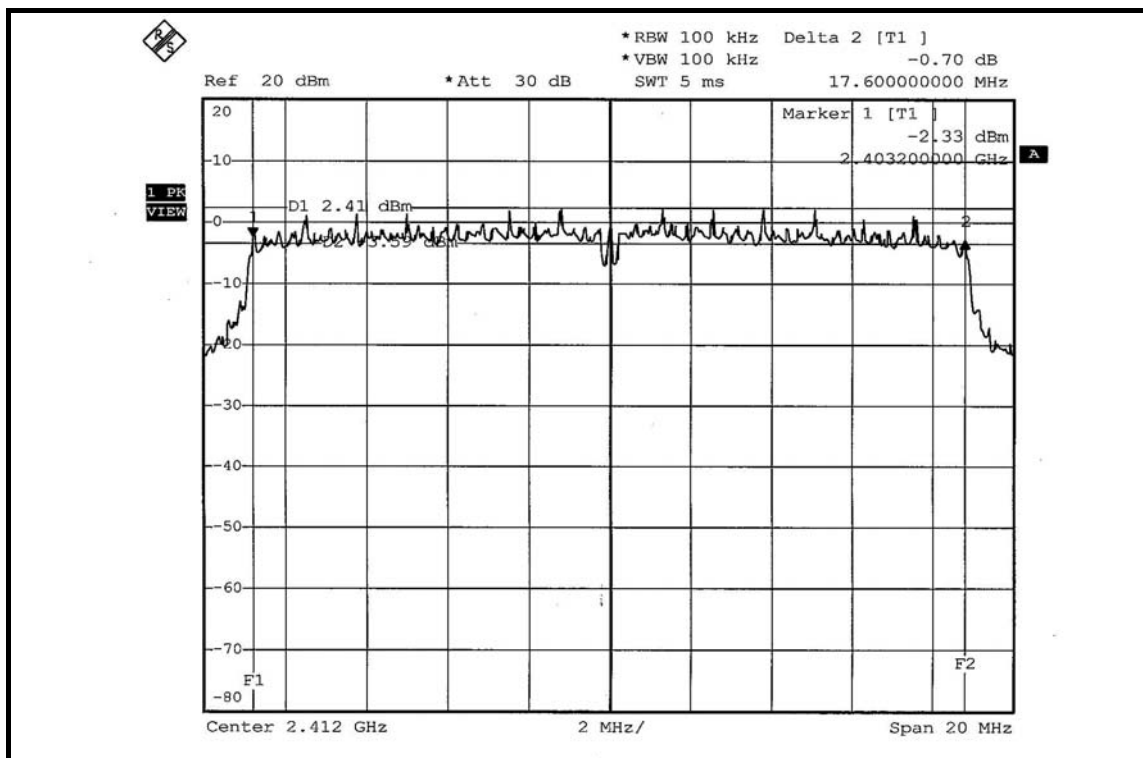


DRAFT 802.11n (20MHz) OFDM MODULATION:

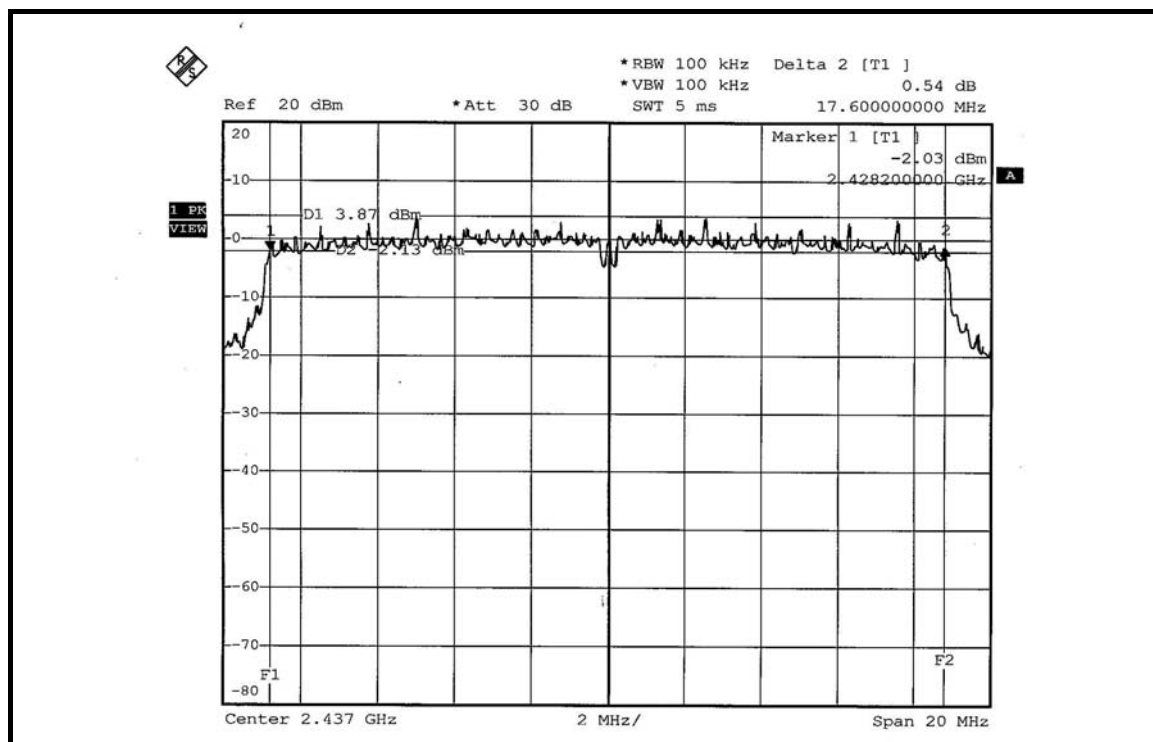
MODULATION TYPE	BPSK	TRANSFER RATE	7.2Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 63% RH, 991hPa
TESTED BY	Long Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	17.60	17.64	17.60	0.5	PASS
6	2437	17.60	17.60	17.60	0.5	PASS
11	2462	17.60	17.56	17.60	0.5	PASS

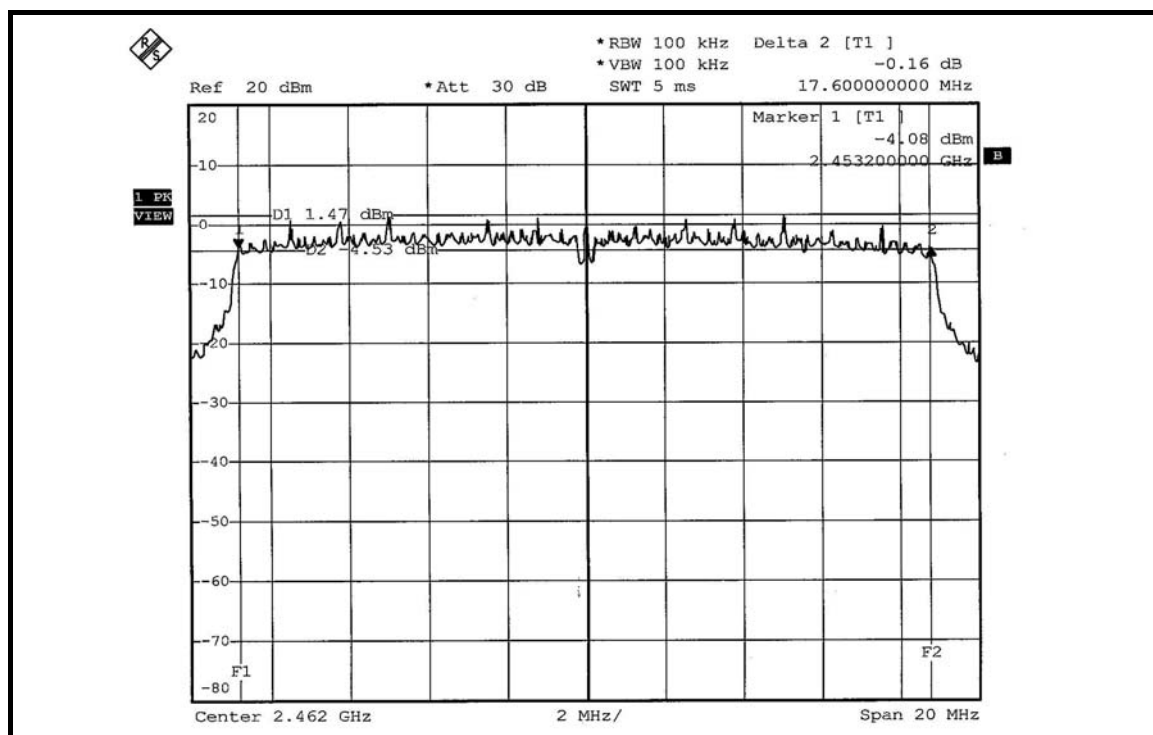
FOR CHAIN 0: CH 1



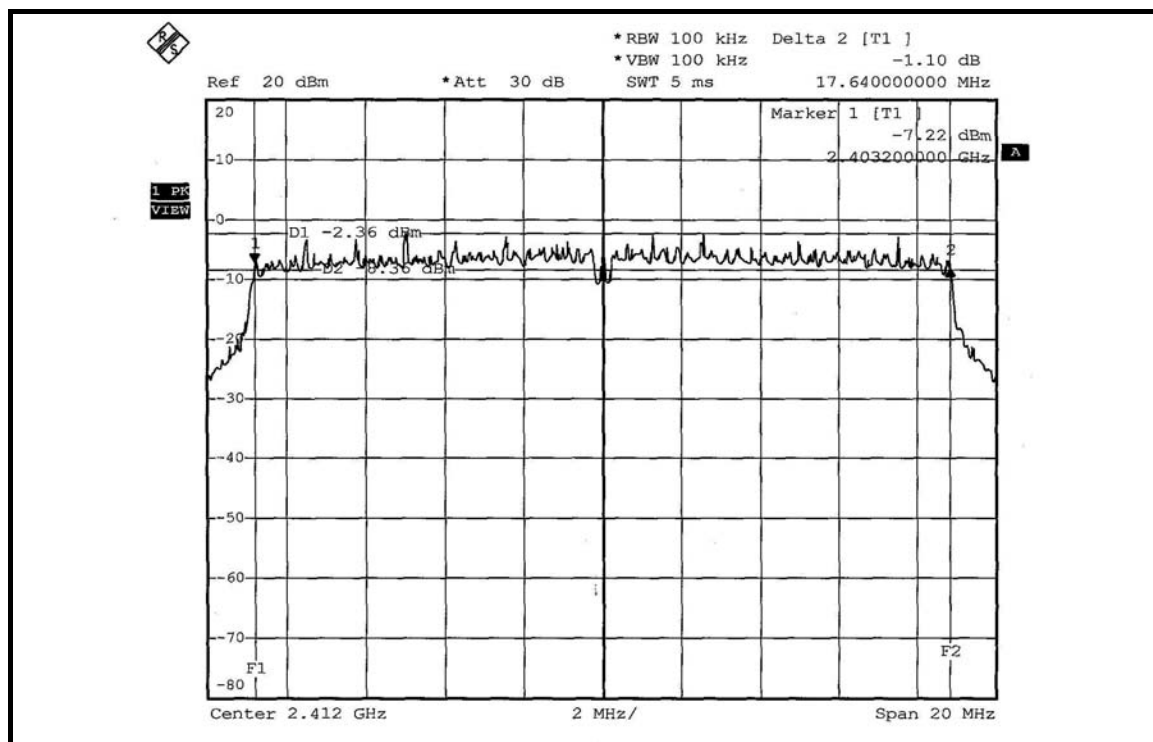
CH 6



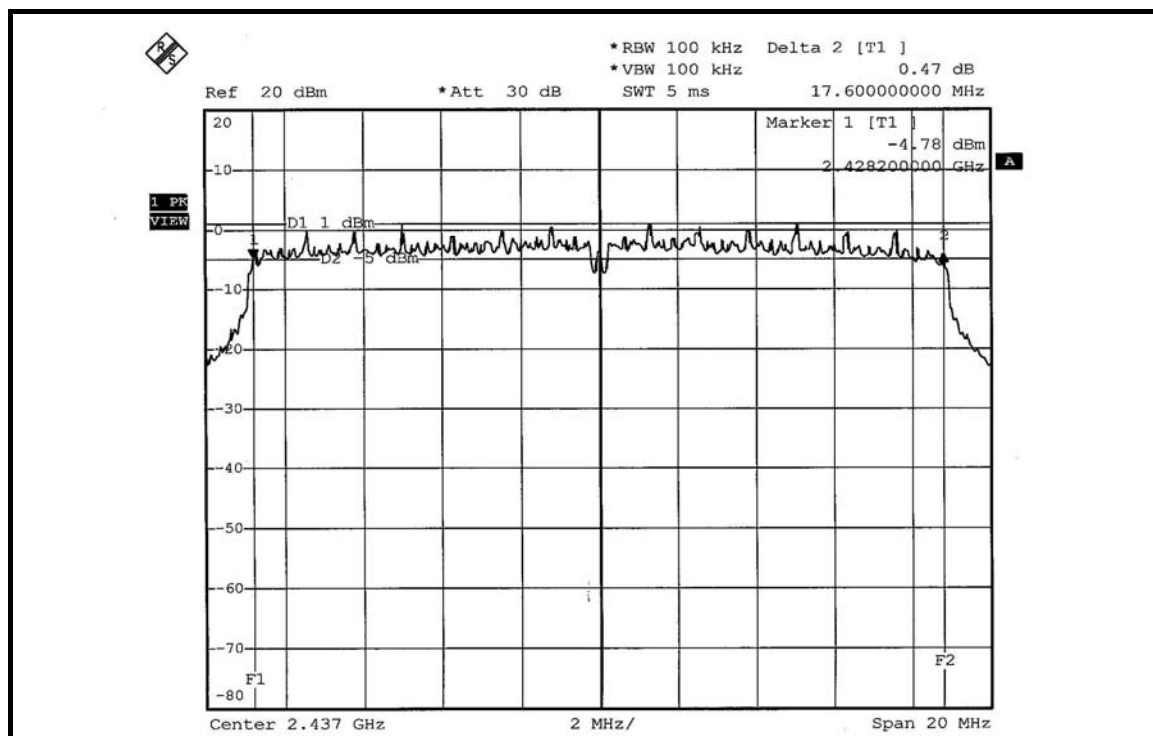
CH 11



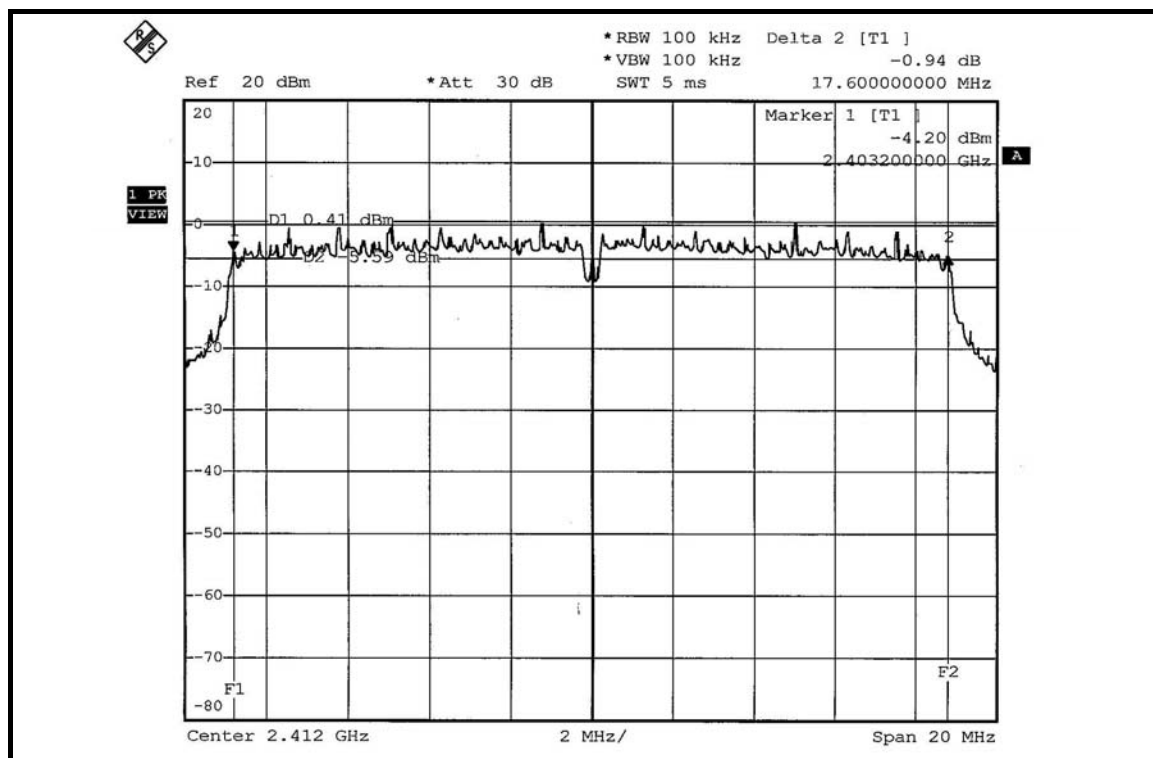
FOR CHAIN 1: CH 1



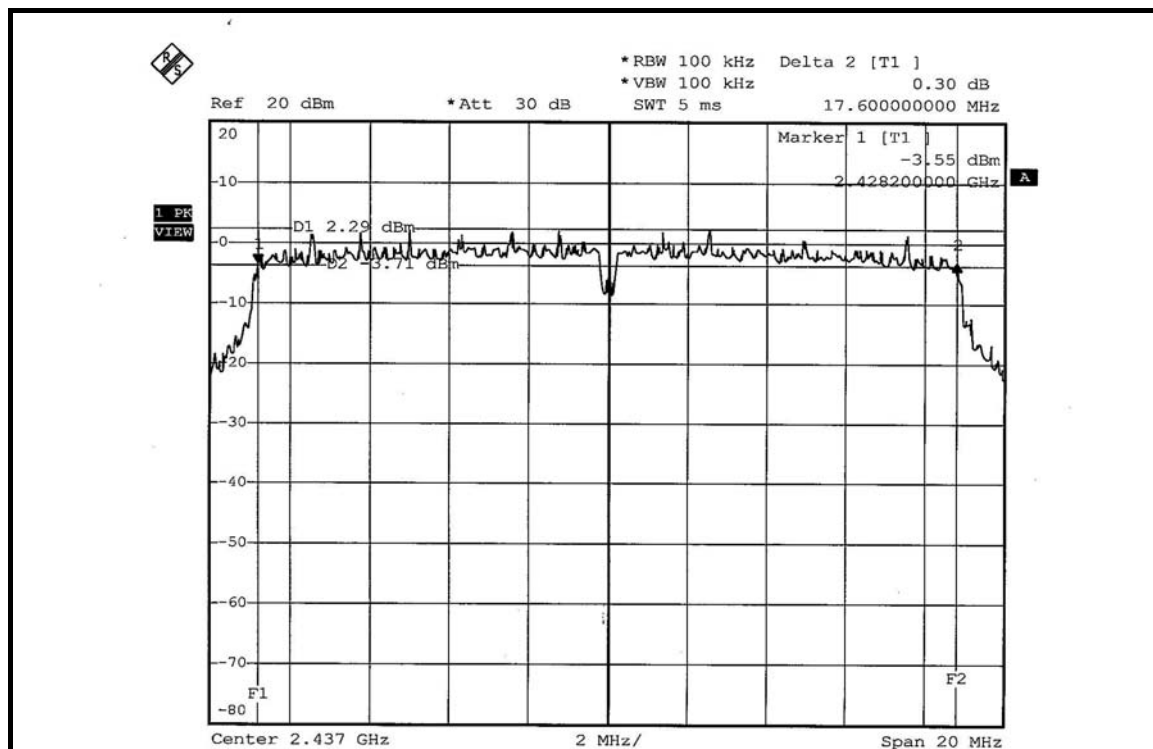
CH 6



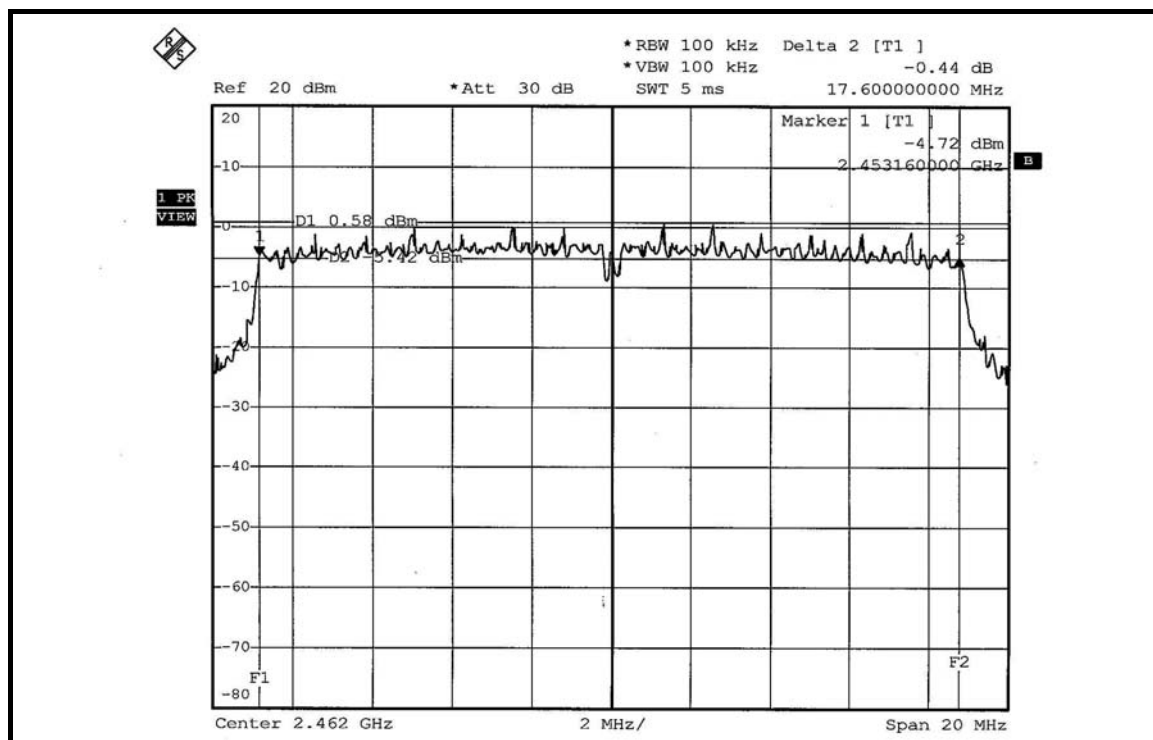
FOR CHAIN 2: CH 1



CH 6



CH 11

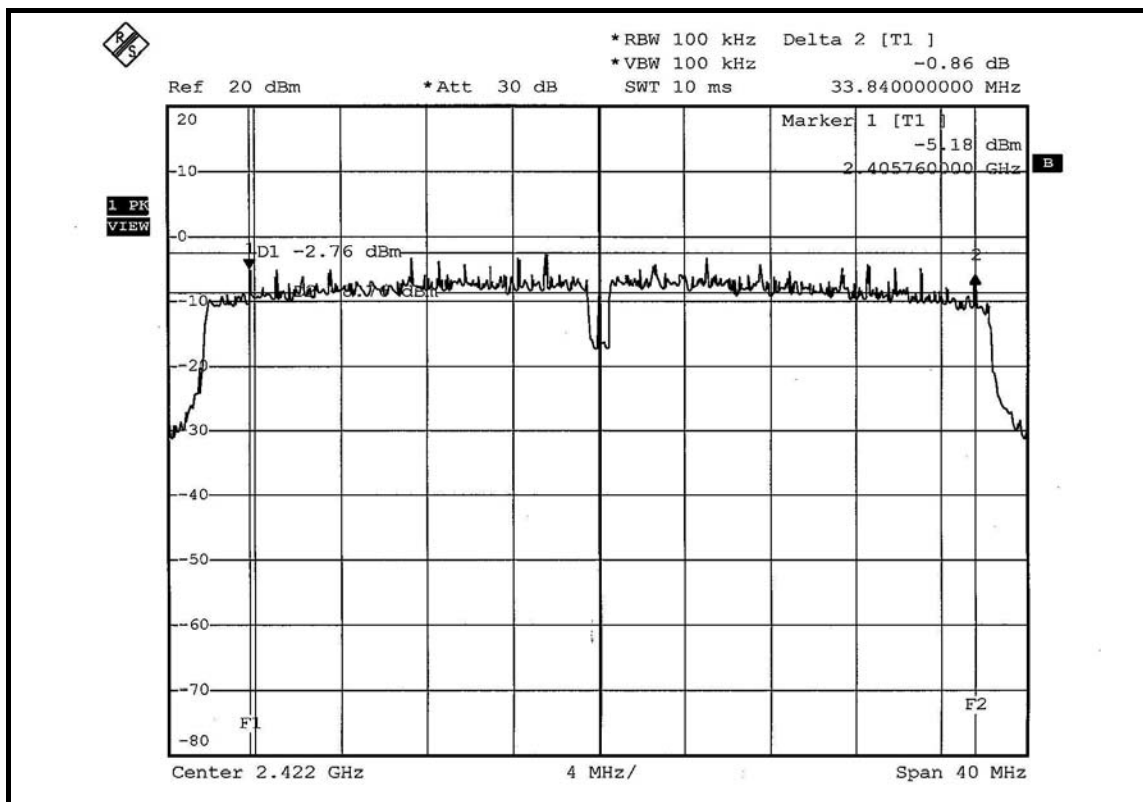


DRAFT 802.11n (40MHz) OFDM MODULATION:

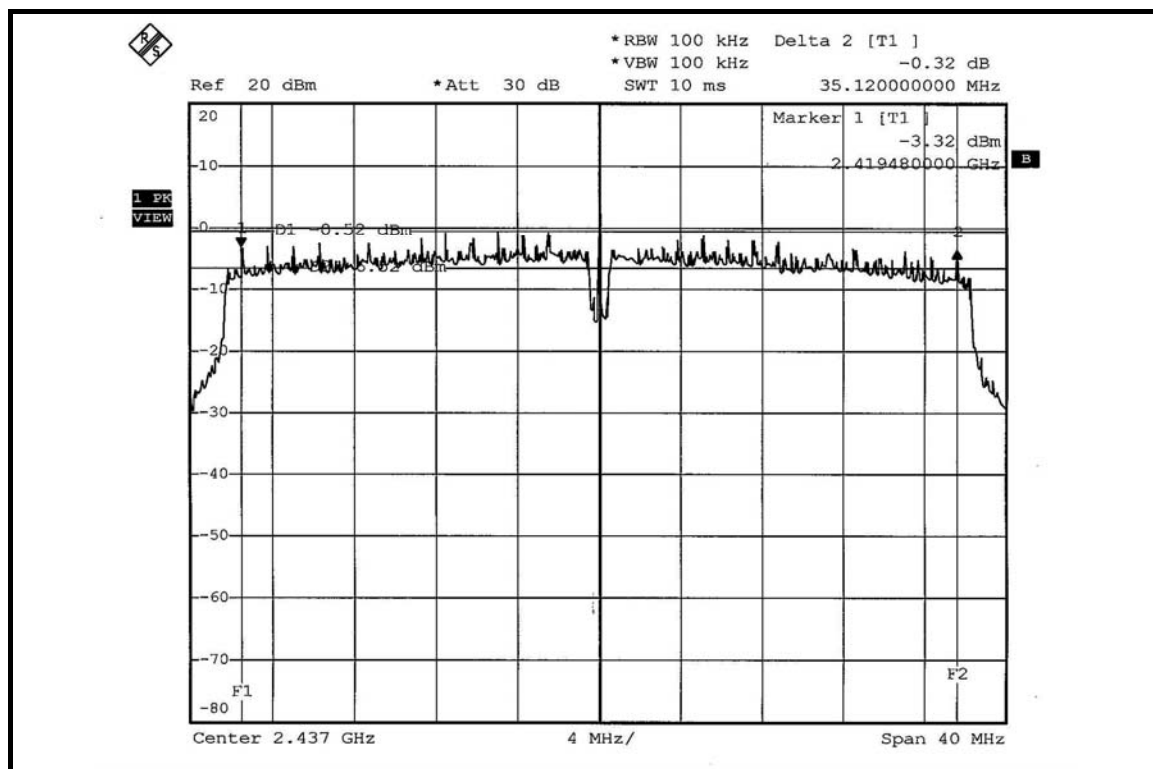
MODULATION TYPE	BPSK	TRANSFER RATE	15.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 63% RH, 991hPa
TESTED BY	Long Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2422	33.84	35.04	35.12	0.5	PASS
4	2437	35.12	35.12	35.12	0.5	PASS
7	2452	35.20	35.12	35.20	0.5	PASS

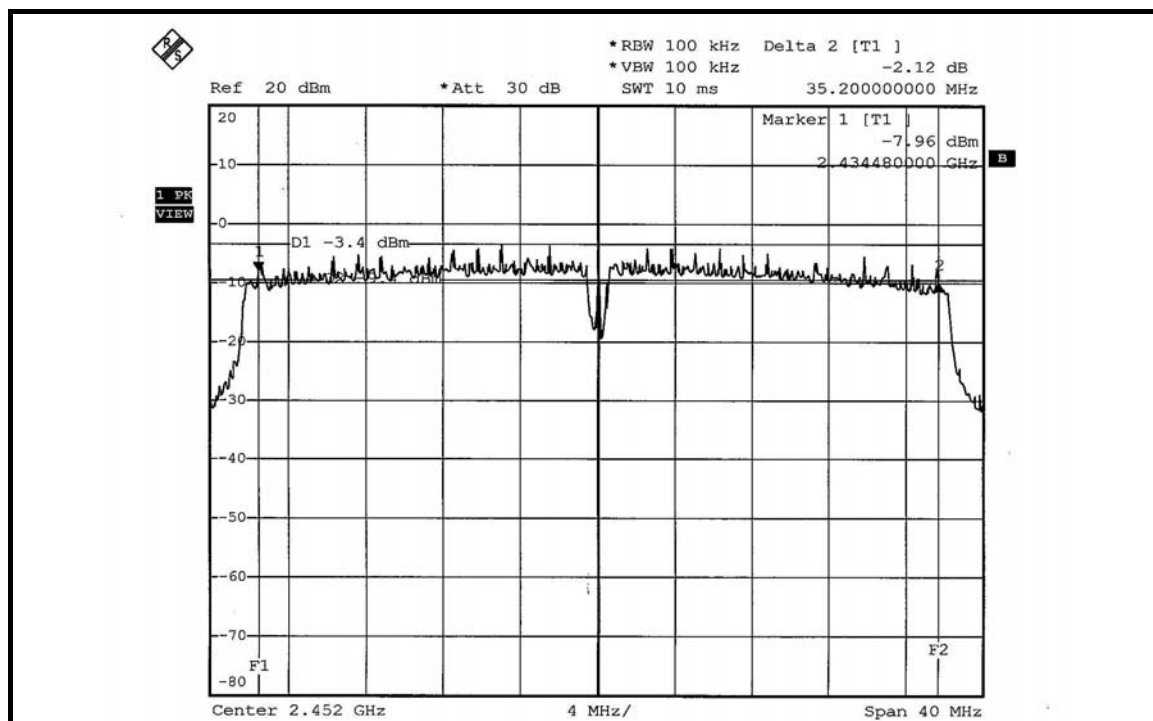
FOR CHAIN 0: CH 1



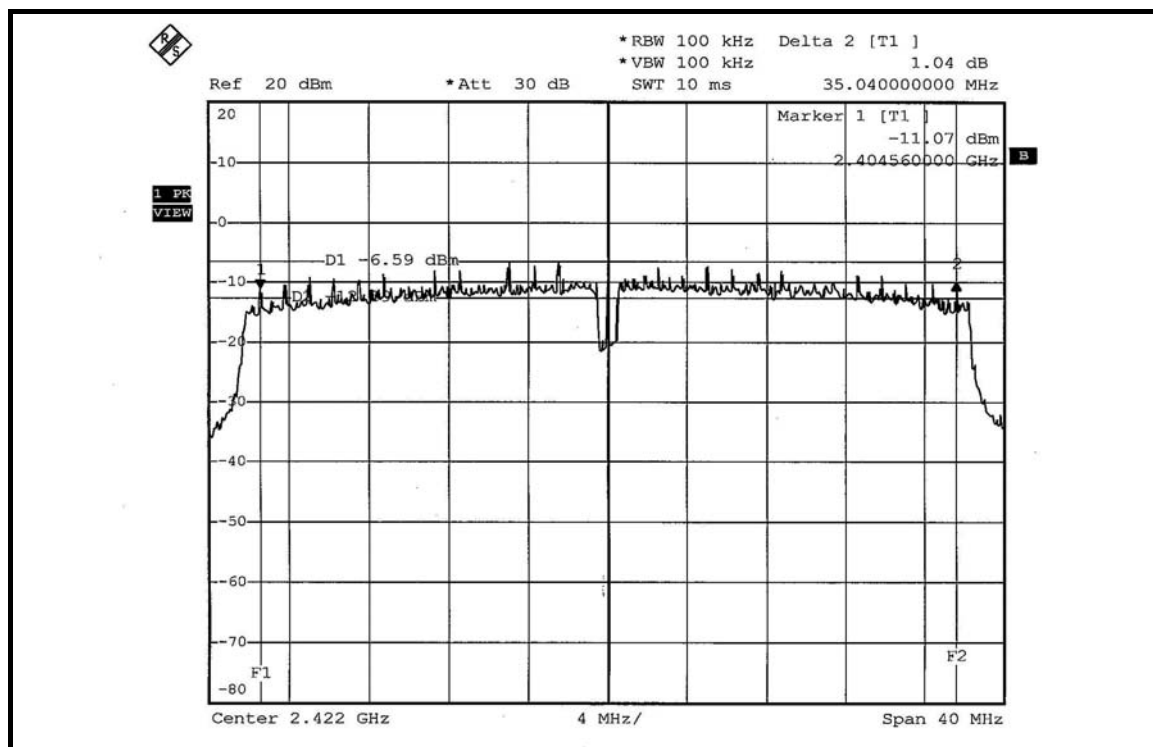
CH 4



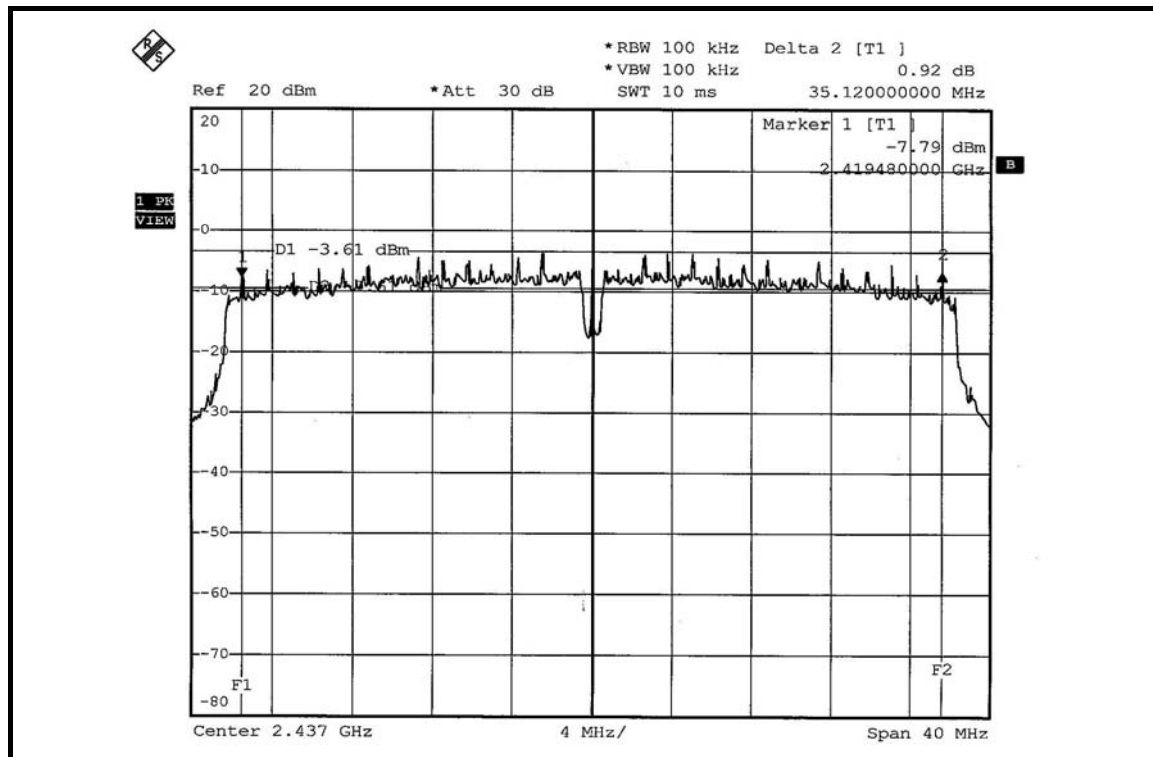
CH 7



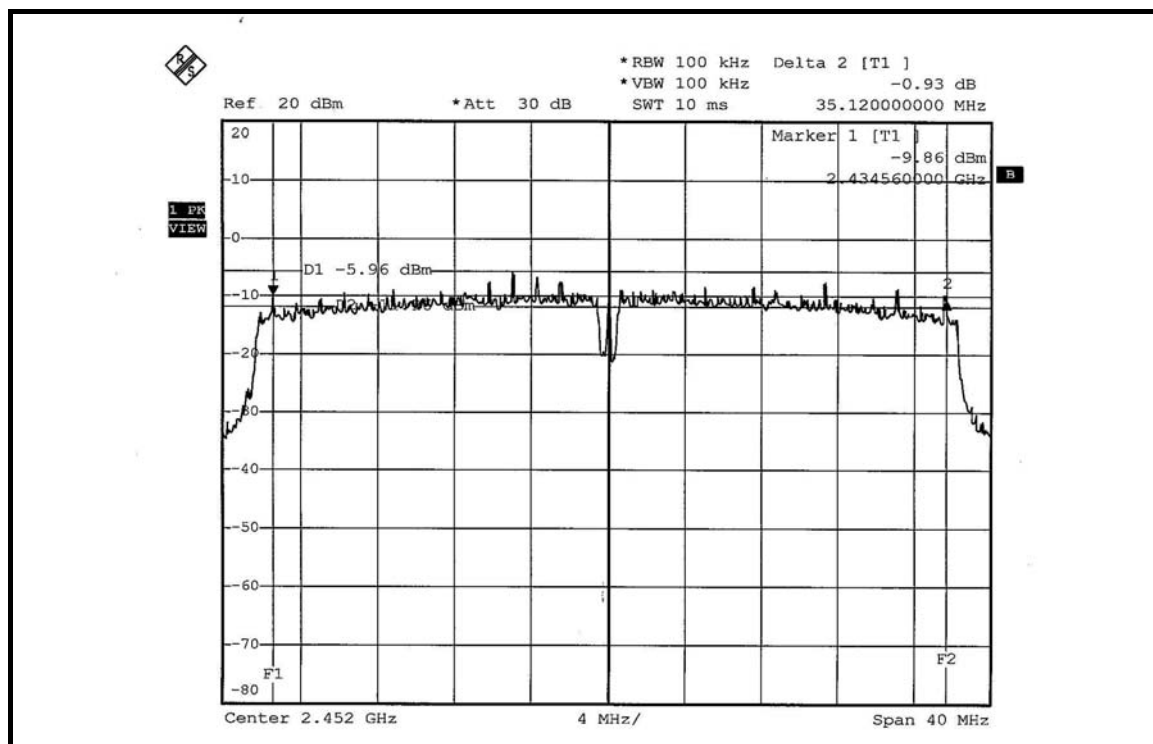
FOR CHAIN 1: CH 1



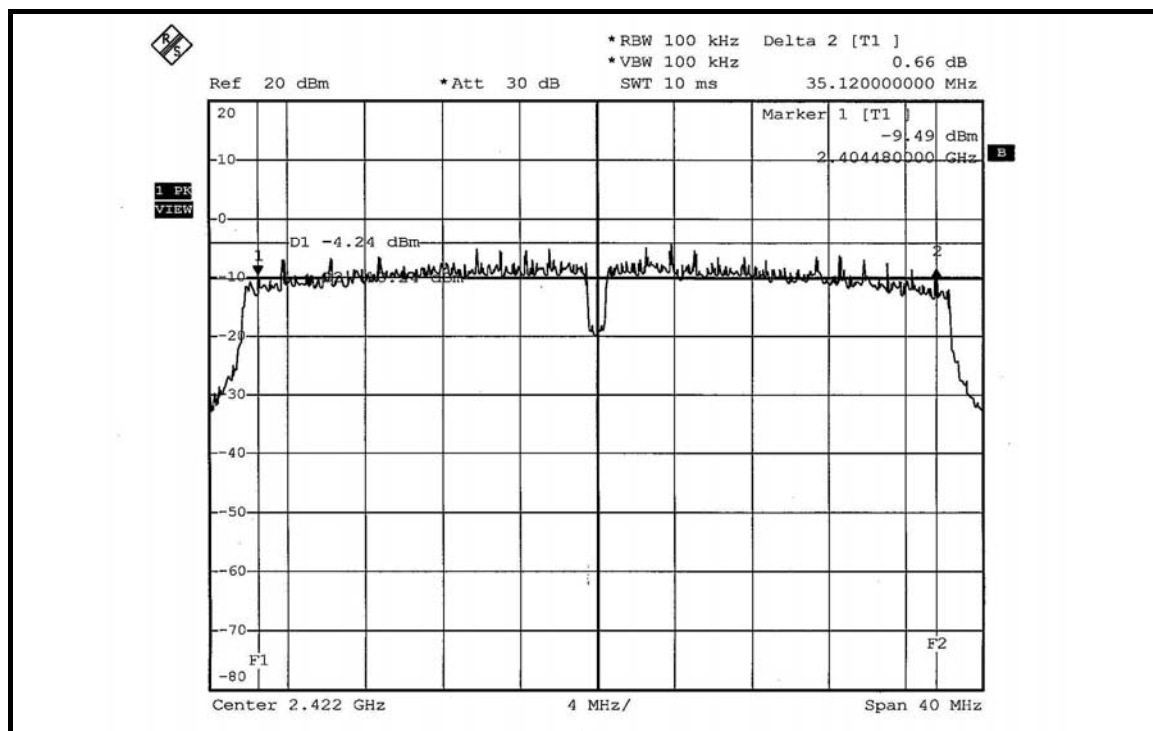
CH 4



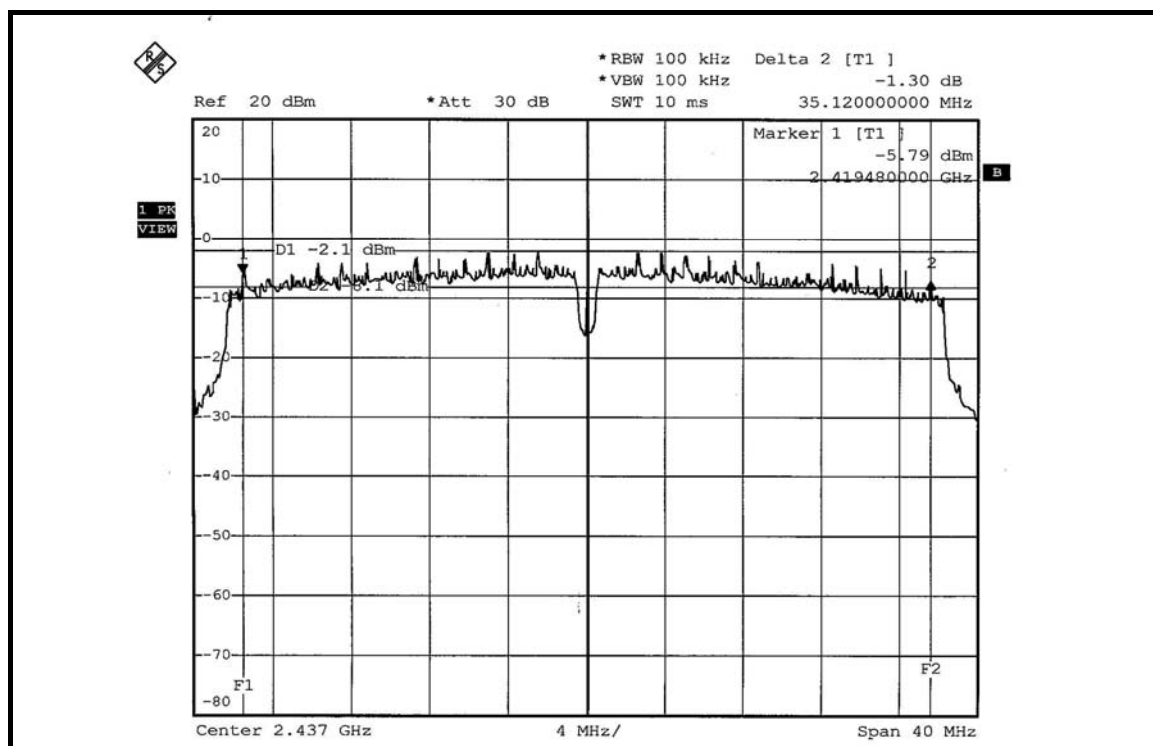
CH 7



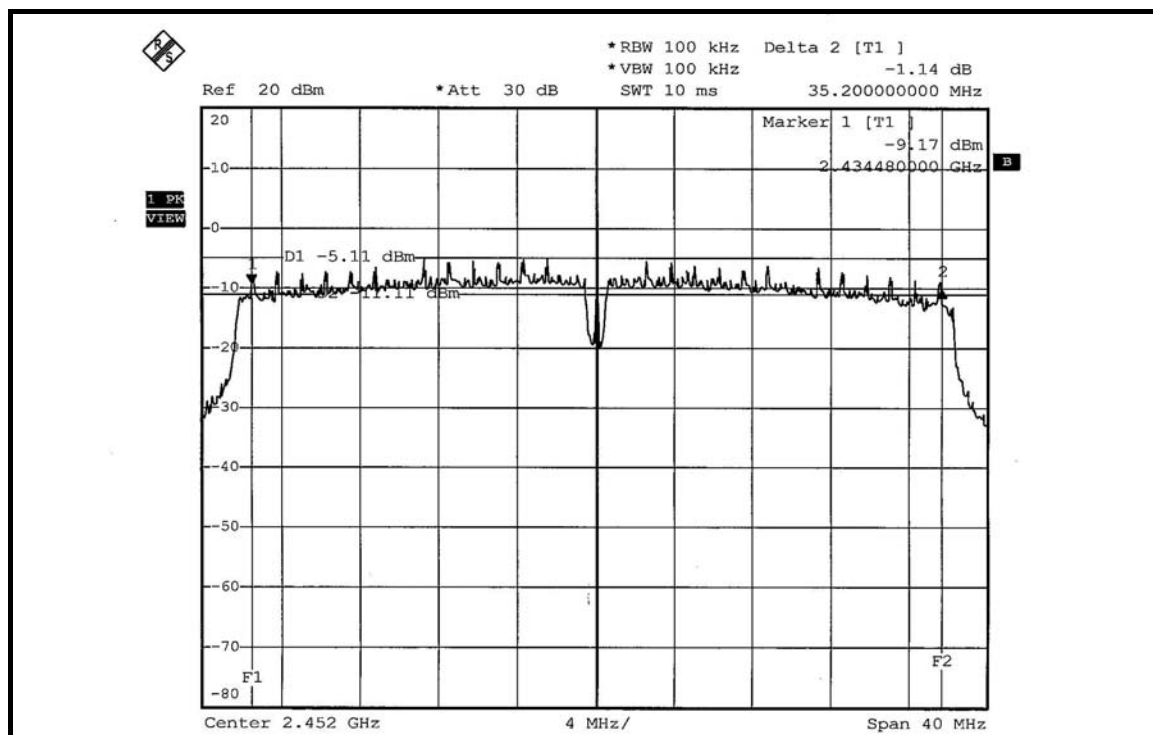
FOR CHAIN 2: CH 1



CH 4



CH 7



4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 14, 2006
AGILENT SIGNAL GENERATOR	E8257C	MY43320668	Dec. 07, 2006
DIGITAL RT OSCILLOSCOPE	TDS1012	C037299	Nov. 28, 2006
NARDA DETECTOR	4503A	FSCM99899	NA

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

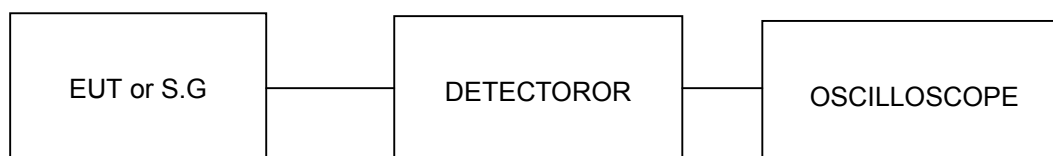
4.4.3 TEST PROCEDURES

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

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6

4.4.7 TEST RESULTS

802.11b DSSS MODULATION:

MODULATION TYPE	DBPSK	TRANSFER RATE	1.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 63% RH, 991hPa
TESTED BY	Long Chen		

CHAN.	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)			PEAK POWER OUTPUT (dBm)			TOTAL PEAK POWER (mW)	TOTAL PEAK POWER (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	CHAIN 0	CHAIN 1	CHAIN 2				
1	2412	80.538	40.179	71.285	19.06	16.04	18.53	192.002	22.83	30	PASS
6	2437	89.950	39.994	71.945	19.54	16.02	18.57	201.889	23.05	30	PASS
11	2462	71.945	40.087	50.350	18.57	16.03	17.02	162.382	22.11	30	PASS

802.11g OFDM MODULATION:

MODULATION TYPE	BPSK	TRANSFER RATE	6.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 63% RH, 991hPa
TESTED BY	Long Chen		

CHAN.	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)			PEAK POWER OUTPUT (dBm)			TOTAL PEAK POWER (mW)	TOTAL PEAK POWER (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	CHAIN 0	CHAIN 1	CHAIN 2				
1	2412	50.582	22.751	39.994	17.04	13.57	16.02	113.328	20.54	30	PASS
6	2437	79.983	40.644	63.241	19.03	16.09	18.01	183.869	22.65	30	PASS
11	2462	56.754	25.410	35.975	17.54	14.05	15.56	118.139	20.72	30	PASS

DRAFT 802.11n (20MHz) OFDM MODULATION:

MODULATION TYPE	BPSK	TRANSFER RATE	7.2Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 63% RH, 991hPa
TESTED BY	Long Chen		

CHAN.	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)			PEAK POWER OUTPUT (dBm)			TOTAL PEAK POWER (mW)	TOTAL PEAK POWER (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	CHAIN 0	CHAIN 1	CHAIN 2				
1	2412	63.680	22.439	40.179	18.04	13.51	16.04	126.297	21.01	30	PASS
6	2437	90.365	40.272	79.799	19.56	16.05	19.02	210.436	23.23	30	PASS
11	2462	56.624	28.379	40.272	17.53	14.53	16.05	125.275	20.98	30	PASS

DRAFT 802.11n (40MHz) OFDM MODULATION:

MODULATION TYPE	BPSK	TRANSFER RATE	15.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 63% RH, 991hPa
TESTED BY	Long Chen		

CHAN.	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)			PEAK POWER OUTPUT (dBm)			TOTAL PEAK POWER (mW)	TOTAL PEAK POWER (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2	CHAIN 0	CHAIN 1	CHAIN 2				
1	2422	28.774	11.272	20.091	14.59	10.52	13.03	60.137	17.79	30	PASS
4	2437	50.350	22.491	35.727	17.02	13.52	15.53	108.568	20.36	30	PASS
7	2452	25.351	12.764	18.072	14.04	11.06	12.57	56.187	17.50	30	PASS

4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSEK30	100049	Aug. 14, 2006

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

4.5.3 TEST PROCEDURE

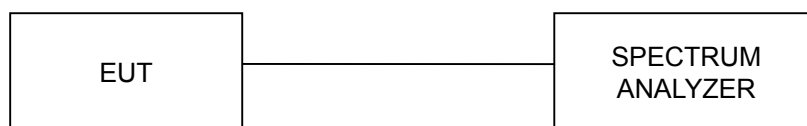
The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time = span/3kHz. The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span/3kHz for a full response of the mixer in the spectrum analyzer.

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITION

Same as Item 4.3.6

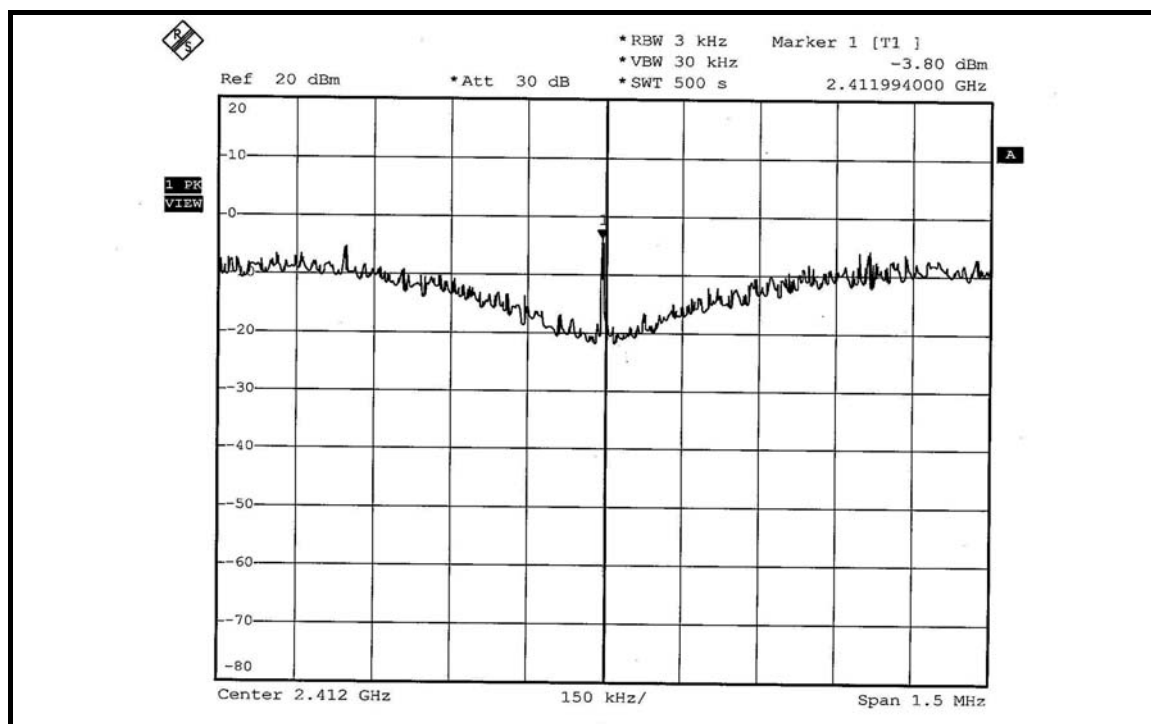
4.5.7 TEST RESULTS

802.11b DSSS MODULATION:

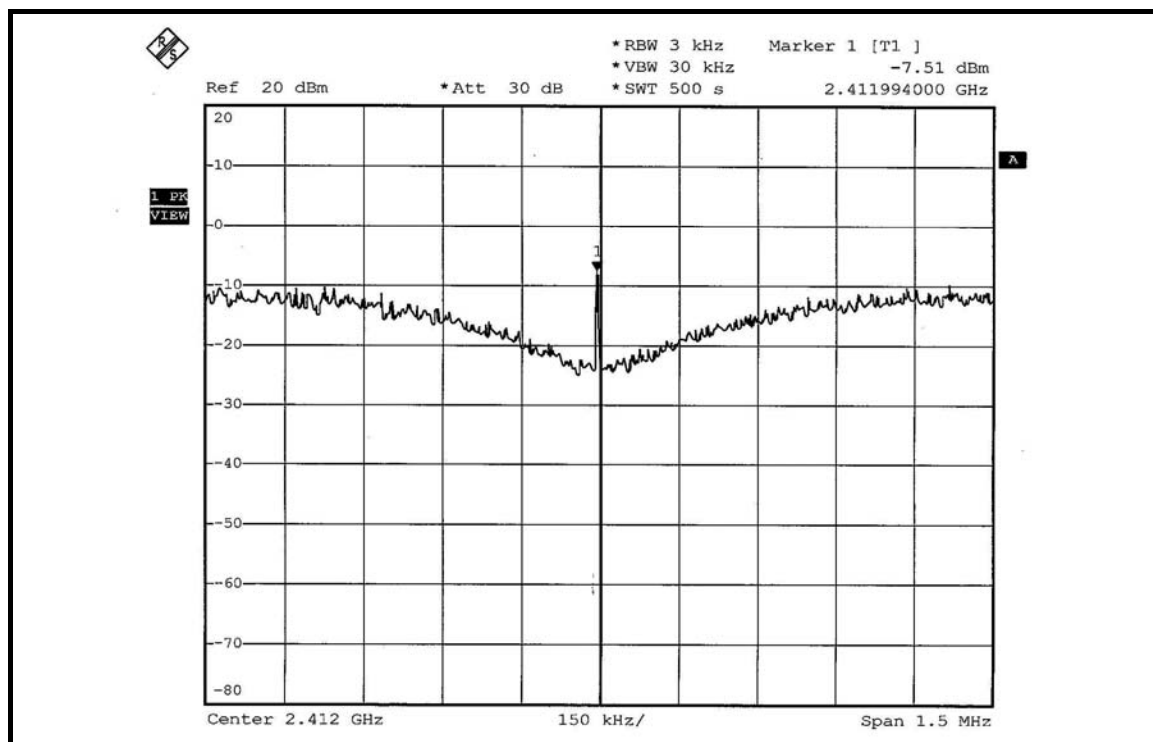
MODULATION TYPE	DBPSK	TRANSFER RATE	1.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 63% RH, 991hPa
TESTED BY	Long Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)			MAXIMUM LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	-3.80	-7.51	-4.32	8	PASS
6	2437	-3.34	-7.54	-4.20	8	PASS
11	2462	-4.48	-7.69	-5.95	8	PASS

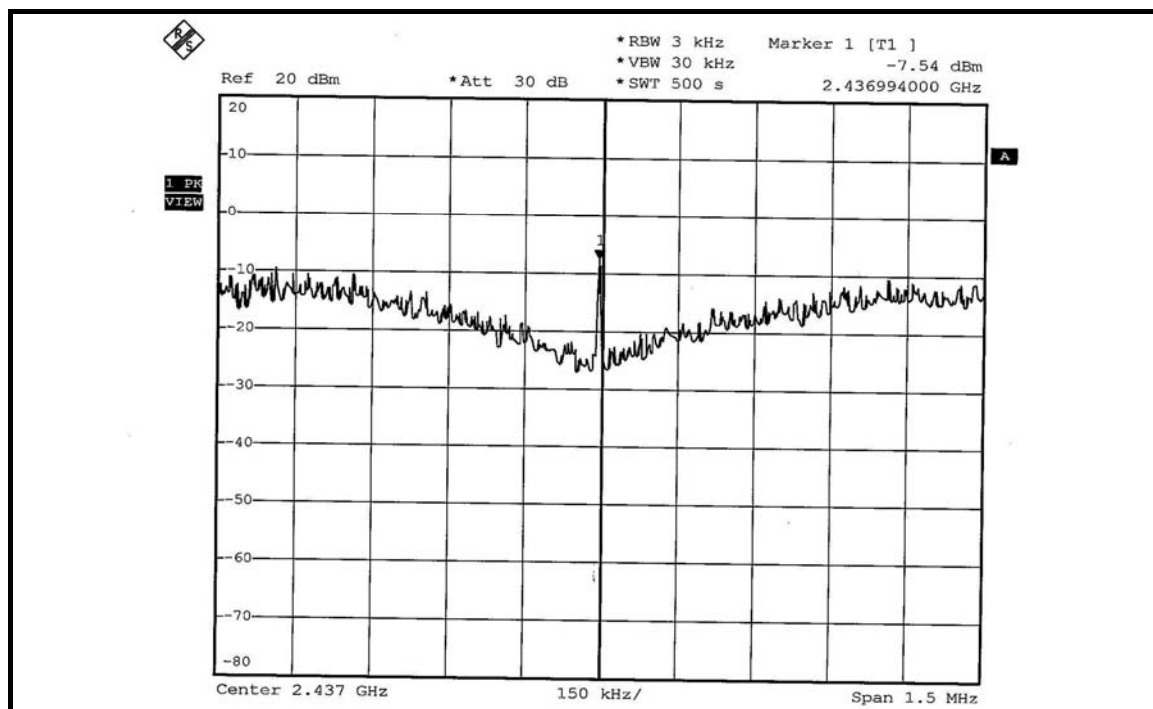
FOR CHAIN 0: CH 1



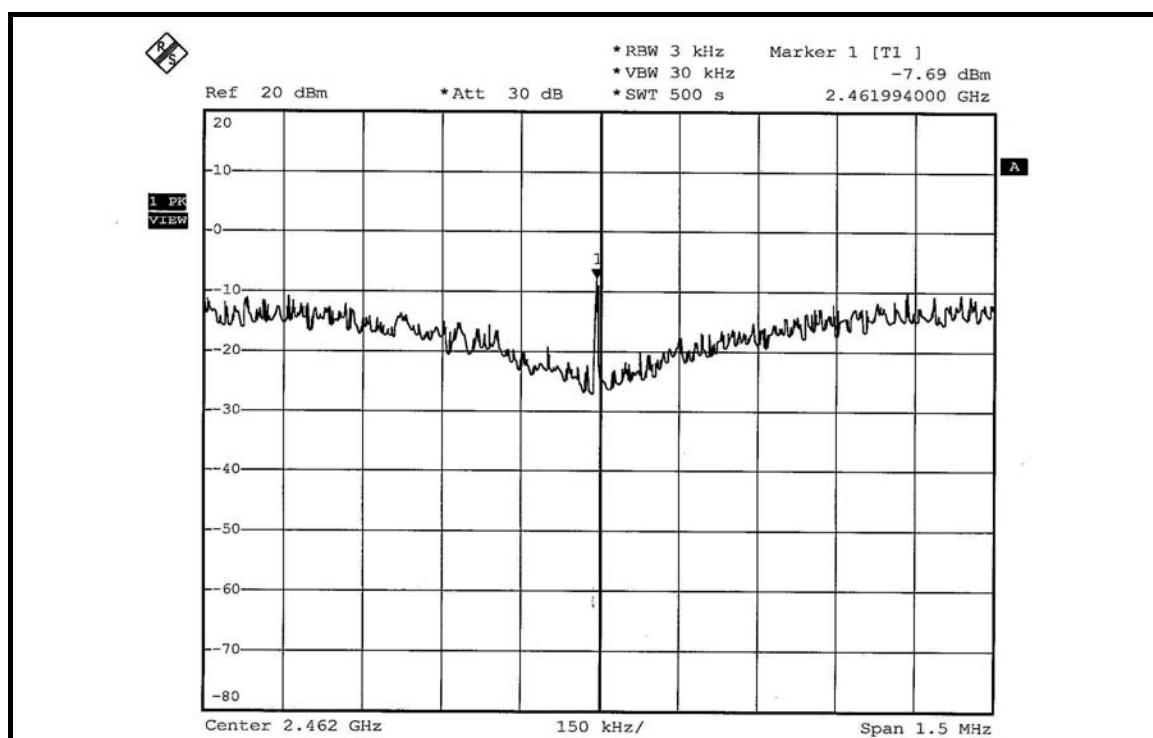
FOR CHAIN 1: CH 1



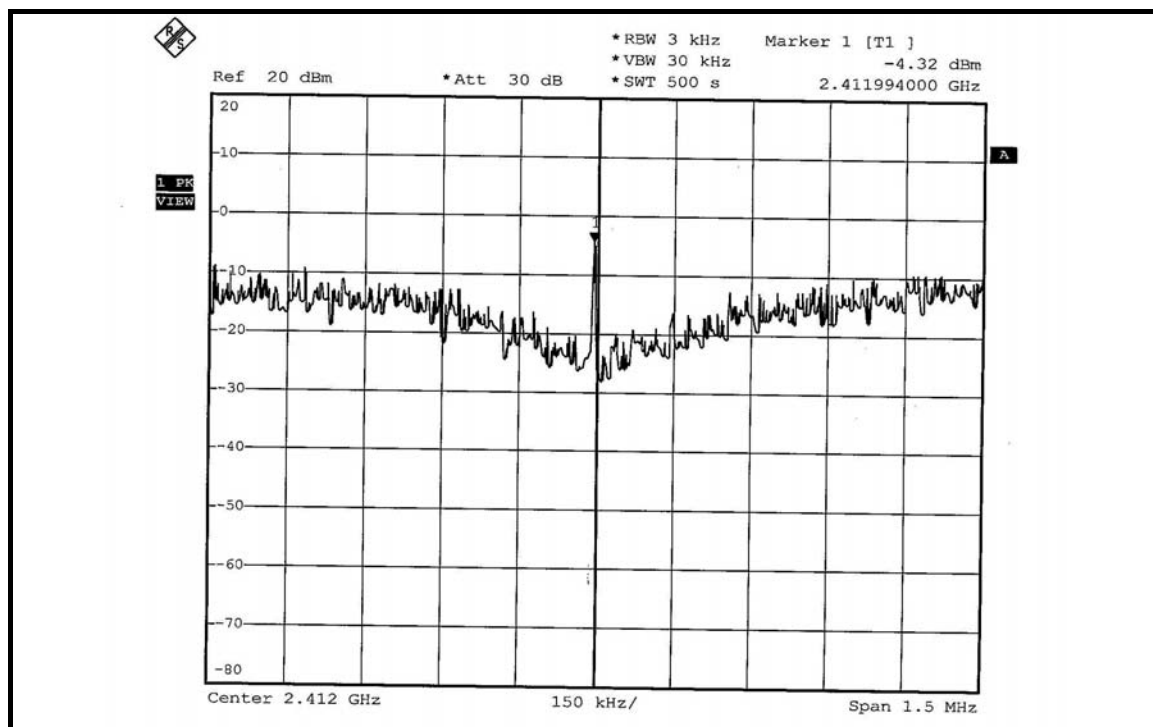
CH 6



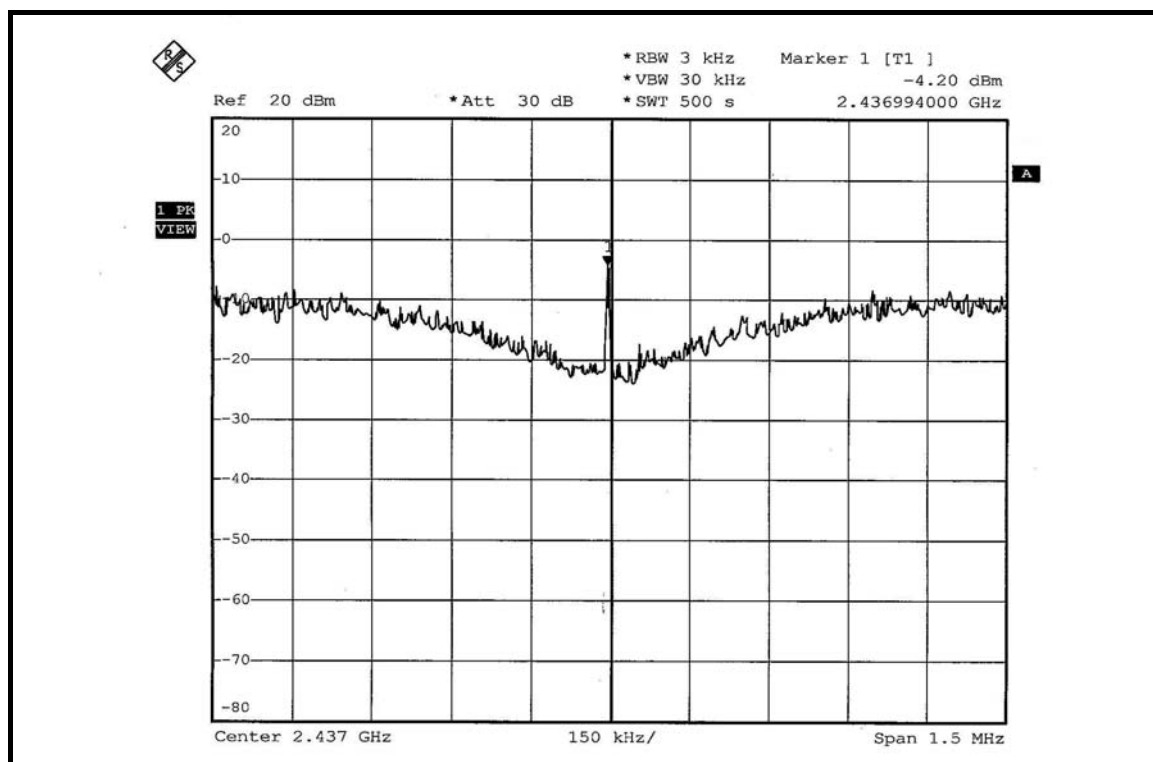
CH 11



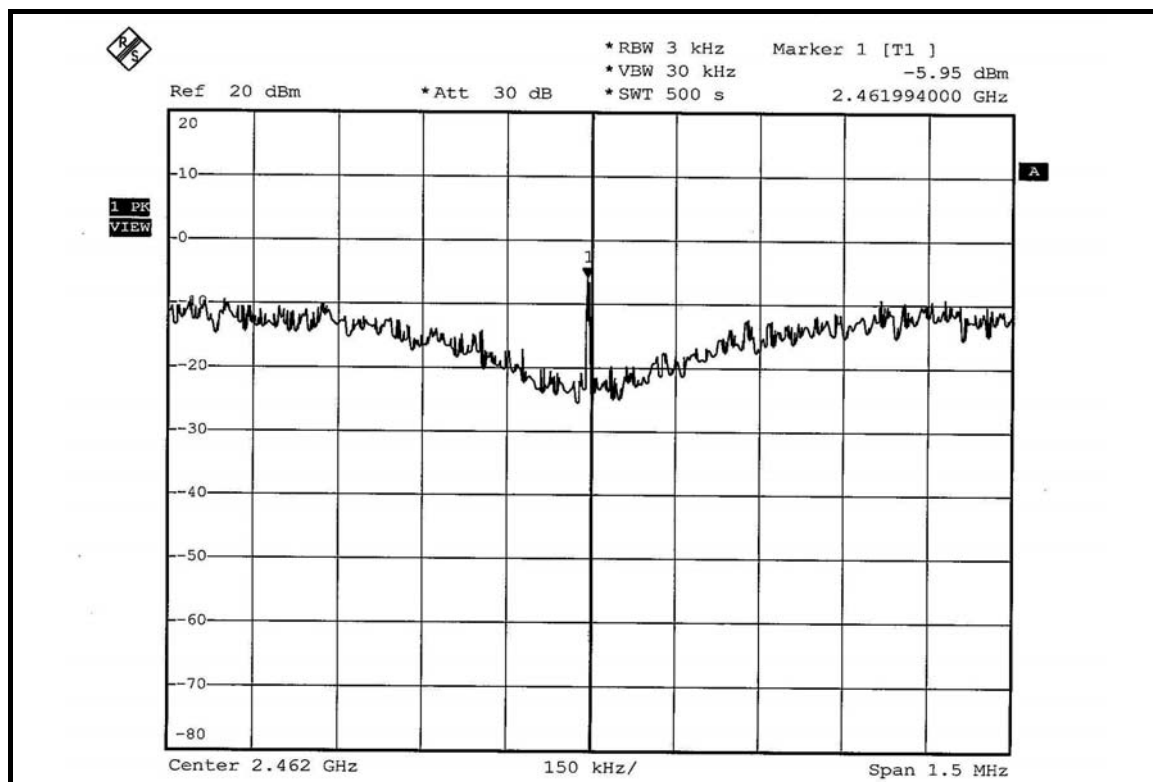
FOR CHAIN 2: CH 1



CH 6



CH 11



802.11g OFDM MODULATION:

MODULATION TYPE	BPSK	TRANSFER RATE	6.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 63% RH, 991hPa
TESTED BY	Long Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)			MAXIMUM LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 2		
1	2412	-4.90	-8.74	-6.11	8	PASS
6	2437	-2.57	-6.55	-4.17	8	PASS
11	2462	-4.29	-8.05	-6.58	8	PASS

FOR CHAIN 0: CH 1

