



FCC TEST REPORT

REPORT NO.: RF970103L04

MODEL NO.: WRT110

RECEIVED: Jan. 03, 2008

TESTED: Jan. 31 ~ Feb. 13, 2008

ISSUED: Feb. 15, 2008

APPLICANT: Cisco-Linksys LLC

ADDRESS: 121 Theory Drive Irvine, CA 92617 (USA)

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: RangePlus Wireless Router

MODEL: WRT110

BRAND: Linksys

APPLICANT: Cisco-Linksys LLC

TESTED: Jan. 31 ~ Feb. 13, 2008

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: **FCC Part 15, Subpart C (Section 15.247)**

ANSI C63.4-2003

The above equipment (model: WRT110) 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:** Feb. 15, 2008
Peggy Chen / Specialist

TECHNICAL ACCEPTANCE : Long Chen , **DATE:** Feb. 15, 2008
Responsible for RF Long Chen / Senior Engineer

APPROVED BY : Gary Chang , **DATE:** Feb. 15, 2008
Gary Chang / Assistant Manager

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 -9.52 dB at 0.150 MHz.
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 -1.16 dB at 59.06MHz.
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 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz ~ 30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	3.19 dB
	200MHz ~1000MHz	3.21 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	RangePlus Wireless Router
MODEL NO.	WRT110
FCC ID	Q87-WRT110
POWER SUPPLY	12Vdc from adapter
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b: 11/ 5.5/ 2/ 1Mbps 802.11g: 54/ 48/ 36/ 24/ 18/ 12/ 9/ 6Mbps Draft 802.11n: up to 150Mbps
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	81.85mW
ANTENNA TYPE	Refer to NOTE 3 for more details
DATA CABLE	NA
I/O PORTS	RJ45
ACCESSORY DEVICES	Adapter

NOTE:

- The EUT incorporates a MIMO function. Physically, the EUT provides one completed transmitter and two receivers.

	1TX
802.11b	√
802.11g	√
Draft 802.11n (20MHz)	√
Draft 802.11n (40MHz)	√

2. The EUT is powered by the following adapters.

Adapter 1

Brand:	LEADER ELECTRONICS INC.
Model:	MT12-4120100-A1
Input:	120Vac, 60Hz, 0.3A
Output:	12Vdc, 1A
Power Line:	1.8m cable without core

Adapter 2

Brand:	LINKSYS
Model:	AD 12V/1A-SW
Input:	100-240Vac,0.5A, 50-60Hz
Output:	12Vdc, 1.0A MAX
Power Line:	1.8m cable without core

Adapter 3

Brand:	LINKSYS
Model:	DSA-15P-12 US 120120
Input:	100-240Vac, 50/60Hz, 0.5A
Output:	12Vdc, 1.0A
Power Line:	1.8m cable without core

Adapter 4

Brand:	LINKSYS
Model:	DSA-12R-12 AUS 120120
Input:	100-120Vac, 50/60Hz, 0.3A
Output:	12Vdc, 1.0A
Power Line:	1.8m cable without core

3. There are 4 antennas for the EUT.

No.	Brand	Type	Gain(dBi)
1	GALTRONICS	PIFA	1.72
2	Wha Yu	PIFA	1.03
3	SPEED TECH	PIFA	1.56
4	VSO	PIFA	2.62

**No. 1, 4 were chosen for final test.

4. 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

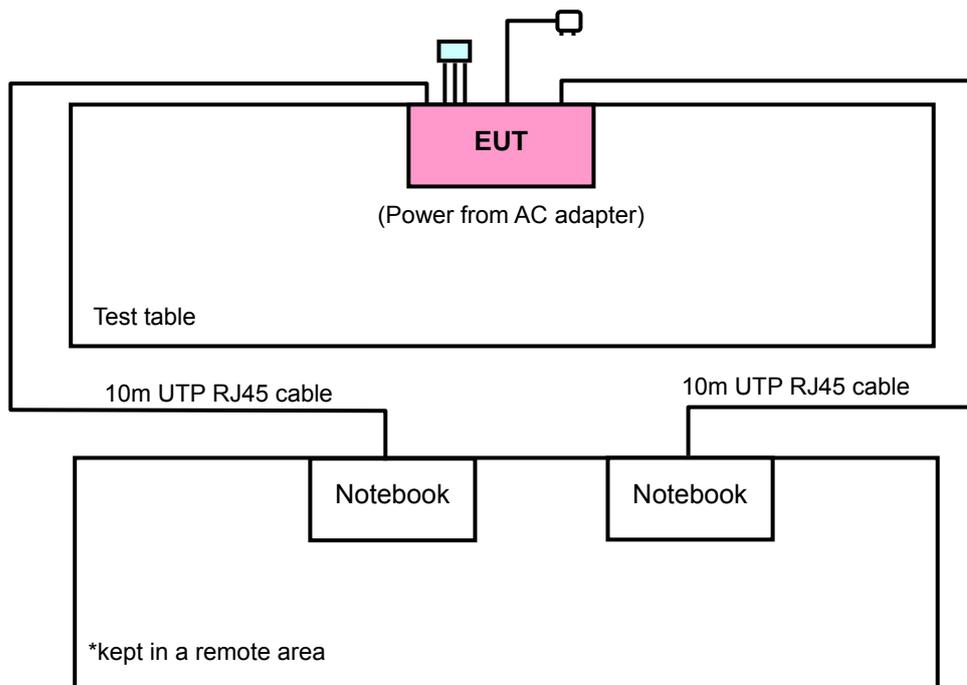
Eleven channels are provided for 802.11b, 802.11g and draft 802.11n (20MHz):

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	
	RE ≥ 1G	RE < 1G	PLC	BM	APCM	Antenna	Adapter
A1	√	√	-	√	-	GALTRONICS	MT12-4120100-A1
A2	-	√	-	-	-		AD 12V/1A-SW
A3	-	√	-	-	-		DSA-15P-12 US 120120
A4	-	√	-	-	-		DSA-12R-12 AUS 120120
B1	√	√	√	√	√	VSO	MT12-4120100-A1
B2	-	√	√	-	-		AD 12V/1A-SW
B3	-	√	√	-	-		DSA-15P-12 US 120120
B4	-	√	√	-	-		DSA-12R-12 AUS 120120

Where **RE ≥ 1G**: Radiated Emission above 1GHz **RE < 1G**: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission **BM**: Bandedge Measurement

APCM: Antenna Port Conducted Measurement **NOTE**: "-": Means no effect.

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, XYZ axis 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)	AXIS
A1	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0	X
B1	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0	X
A1	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0	X
B1	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0	X
A1	Draft 802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	7.2	X
B1	Draft 802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	7.2	X
A1	Draft 802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	13.5	X
B1	Draft 802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	13.5	X



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, XYZ axis 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)	AXIS
A1	802.11b	1 to 11	1	DSSS	DBPSK	1.0	X
A2	802.11b	1 to 11	1	DSSS	DBPSK	1.0	X
A3	802.11b	1 to 11	1	DSSS	DBPSK	1.0	X
A4	802.11b	1 to 11	1	DSSS	DBPSK	1.0	X
B1	802.11b	1 to 11	1	DSSS	DBPSK	1.0	X
B2	802.11b	1 to 11	1	DSSS	DBPSK	1.0	X
B3	802.11b	1 to 11	1	DSSS	DBPSK	1.0	X
B4	802.11b	1 to 11	1	DSSS	DBPSK	1.0	X

POWER LINE CONDUCTED EMISSION TEST:

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

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
B1	802.11b	1 to 11	1	DSSS	DBPSK	1.0
B2	802.11b	1 to 11	1	DSSS	DBPSK	1.0
B3	802.11b	1 to 11	1	DSSS	DBPSK	1.0
B4	802.11b	1 to 11	1	DSSS	DBPSK	1.0

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.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A1	802.11b	1 to 11	1, 11	DSSS	DBPSK	1.0
B1	802.11b	1 to 11	1, 11	DSSS	DBPSK	1.0
A1	802.11g	1 to 11	1, 11	OFDM	BPSK	6.0
B1	802.11g	1 to 11	1, 11	OFDM	BPSK	6.0
A1	Draft 802.11n (20MHz)	1 to 11	1, 11	OFDM	BPSK	7.2
B1	Draft 802.11n (20MHz)	1 to 11	1, 11	OFDM	BPSK	7.2
A1	Draft 802.11n (40MHz)	1 to 7	1, 7	OFDM	BPSK	13.5
B1	Draft 802.11n (40MHz)	1 to 7	1, 7	OFDM	BPSK	13.5

ANTENNA PORT CONDUCTED MEASUREMENT:

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

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
B1	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0
B1	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
B1	Draft 802.11n (20MHz)	1 to 11	1, 6, 11	OFDM	BPSK	7.2
B1	Draft 802.11n (40MHz)	1 to 7	1, 4, 7	OFDM	BPSK	13.5



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	16484462992	E2K24CLNS
2	NOTEBOOK COMPUTER	DELL	PP05L	12130898320	E2K24CLNS

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	10m RJ45 cable
2	10m RJ45 cable

NOTE:

1. All power cords of the above support units are non shielded (1.8m).
2. Item 1, 2 act as a communication partner to transfer data.

4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION MEASUREMENT

4.1.1 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.



4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESI7	838496/016	Dec. 25, 2008
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Dec. 02, 2008
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Jan. 03, 2009
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-405	Dec. 17, 2008
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170242	Jan. 06, 2009
Preamplifier Agilent	8449B	3008A01910	Sep. 19, 2008
Preamplifier Agilent	8447D	2944A10634	Dec. 12, 2008
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	274397/4	Nov. 07, 2008
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	283401/4	Nov. 07, 2008
Software ADT.	ADT_Radiated_V7.6	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 IC3789B-4.

4.1.3 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.

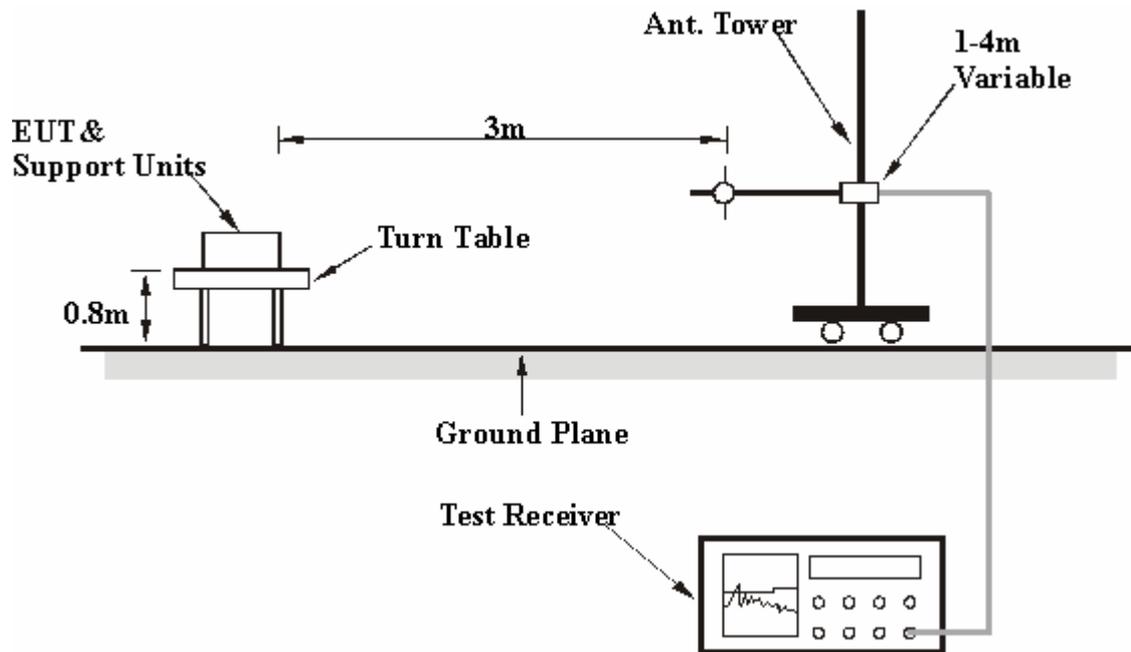
NOTE:

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 of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz 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. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT OPERATING CONDITIONS

- Placed the EUT on the testing table.
- Prepared notebook systems to act as a communication partners and placed them outside of testing area.
- The communication partners run a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency via an RJ45 cable.
- The communication partners communicate with each other via EUT by command "PING".

4.1.7 TEST RESULTS

802.11b DSSS MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 71%RH 1010hPa	TESTED BY	Lori Chiu
TEST MODE	A1		

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	1608.00	52.43 PK	74.00	-21.57	1.20 H	203	23.52	28.91
2	1608.00	51.22 AV	54.00	-2.78	1.20 H	203	22.31	28.91
3	2387.00	57.20 PK	74.00	-16.80	1.06 H	359	24.88	32.32
4	2387.00	46.04 AV	54.00	-7.96	1.06 H	359	13.72	32.32
5	*2412.00	100.70 PK			1.05 H	357	68.38	32.32
6	*2412.00	97.30 AV			1.05 H	357	64.98	32.32
7	4824.00	47.63 PK	74.00	-26.37	1.00 H	221	9.63	38.00
8	4824.00	39.12 AV	54.00	-14.88	1.00 H	221	1.12	38.00
9	6432.00	52.77 PK	80.70	-27.93	1.00 H	206	10.87	41.90
10	6432.00	45.57 AV	77.30	-31.73	1.00 H	206	3.67	41.90

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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 71%RH 1010hPa	TESTED BY	Lori Chiu
TEST MODE	A1		

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	1608.00	53.70 PK	74.00	-20.30	1.00 V	252	24.79	28.91
2	1608.00	52.56 AV	54.00	-1.44	1.00 V	252	23.65	28.91
3	2387.00	58.55 PK	74.00	-15.45	1.21 V	128	26.23	32.32
4	2387.00	46.76 AV	54.00	-7.24	1.21 V	128	14.44	32.32
5	*2412.00	106.65 PK			1.20 V	152	74.33	32.32
6	*2412.00	101.92 AV			1.20 V	152	69.60	32.32
7	4824.00	49.28 PK	74.00	-24.72	1.00 V	143	11.28	38.00
8	4824.00	40.99 AV	54.00	-13.01	1.00 V	143	2.99	38.00
9	6432.00	55.94 PK	86.65	-30.71	1.00 V	141	14.04	41.90
10	6432.00	49.51 AV	81.92	-32.41	1.00 V	141	7.61	41.90

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 71%RH 1010hPa	TESTED BY	Lori Chiu
TEST MODE	A1		

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	1624.00	50.03 PK	74.00	-23.97	1.11 H	350	21.14	28.89
2	1624.00	49.25 AV	54.00	-4.75	1.11 H	350	20.36	28.89
3	*2437.00	101.45 PK			1.25 H	155	69.11	32.34
4	*2437.00	98.76 AV			1.25 H	155	66.42	32.34
5	4874.00	47.16 PK	74.00	-26.84	1.00 H	20	9.04	38.12
6	4874.00	38.18 AV	54.00	-15.82	1.00 H	20	0.06	38.12
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	1624.00	51.11 PK	74.00	-22.89	1.02 V	311	22.22	28.89
2	1624.00	50.08 AV	54.00	-3.92	1.02 V	311	21.19	28.89
3	*2437.00	107.01 PK			1.10 V	277	74.67	32.34
4	*2437.00	102.20 AV			1.10 V	277	69.86	32.34
5	4874.00	48.66 PK	74.00	-25.34	1.02 V	133	10.54	38.12
6	4874.00	39.50 AV	54.00	-14.50	1.02 V	133	1.38	38.12

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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 71%RH 1010hPa	TESTED BY	Lori Chiu
TEST MODE	A1		

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	1641.00	57.55 PK	81.93	-24.38	1.33 H	16	28.68	28.87
2	1641.00	49.62 AV	78.81	-29.19	1.33 H	16	20.75	28.87
3	*2462.00	101.93 PK			1.08 H	100	69.56	32.37
4	*2462.00	98.81 AV			1.08 H	100	66.44	32.37
5	2483.50	58.24 PK	74.00	-15.76	1.08 H	100	25.85	32.39
6	2483.50	46.76 AV	54.00	-7.24	1.08 H	100	14.37	32.39
7	4924.00	47.23 PK	74.00	-26.77	1.23 H	276	9.00	38.23
8	4924.00	37.58 AV	54.00	-16.42	1.23 H	276	-0.65	38.23
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	1641.00	58.01 PK	87.12	-29.11	1.00 V	252	29.14	28.87
2	1641.00	50.56 AV	82.73	-32.17	1.00 V	252	21.69	28.87
3	*2462.00	107.12 PK			1.08 V	277	74.75	32.37
4	*2462.00	102.73 AV			1.08 V	277	70.36	32.37
5	2483.50	58.88 PK	74.00	-15.12	1.08 V	277	26.49	32.39
6	2483.50	47.55 AV	54.00	-6.45	1.08 V	277	15.16	32.39
7	4924.00	48.10 PK	74.00	-25.90	1.10 V	241	9.87	38.23
8	4924.00	38.66 AV	54.00	-15.34	1.10 V	241	0.43	38.23

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	17deg. C, 68%RH 1010hPa	TESTED BY	Kevin Liang
TEST MODE	B1		

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	56.75 PK	74.00	-17.25	1.09 H	32	24.91	31.84
2	2390.00	46.70 AV	54.00	-7.30	1.09 H	32	14.86	31.84
3	*2412.00	103.32 PK			1.09 H	31	71.39	31.93
4	*2412.00	98.89 AV			1.09 H	31	66.96	31.93
5	4824.00	51.11 PK	74.00	-22.89	1.30 H	340	12.98	38.13
6	4824.00	46.61 AV	54.00	-7.39	1.30 H	340	8.48	38.13
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.45 PK	74.00	-15.55	1.22 V	151	26.61	31.84
2	2390.00	46.96 AV	54.00	-7.04	1.22 V	151	15.12	31.84
3	*2412.00	108.22 PK			1.22 V	151	76.29	31.93
4	*2412.00	103.91 AV			1.22 V	151	71.98	31.93
5	4824.00	54.91 PK	74.00	-19.09	1.45 V	87	16.78	38.13
6	4824.00	51.36 AV	54.00	-2.64	1.45 V	87	13.23	38.13

- 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. “ * “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	17deg. C, 68%RH 1010hPa	TESTED BY	Kevin Liang
TEST MODE	B1		

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	103.44 PK			1.10 H	36	71.42	32.02
2	*2437.00	99.06 AV			1.10 H	36	67.04	32.02
3	4874.00	51.27 PK	74.00	-22.73	1.28 H	335	13.00	38.27
4	4874.00	46.82 AV	54.00	-7.18	1.28 H	335	8.55	38.27
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	108.81 PK			1.24 V	339	76.79	32.02
2	*2437.00	104.59 AV			1.24 V	339	72.57	32.02
3	4874.00	55.34 PK	74.00	-18.66	1.47 V	92	17.07	38.27
4	4874.00	51.80 AV	54.00	-2.20	1.47 V	92	13.53	38.27

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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	17deg. C, 68%RH 1010hPa	TESTED BY	Kevin Liang
TEST MODE	B1		

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	103.25 PK			1.08 H	35	71.13	32.12
2	*2462.00	98.79 AV			1.08 H	35	66.67	32.12
3	2483.50	56.70 PK	74.00	-17.30	1.08 H	35	24.49	32.21
4	2483.50	46.61 AV	54.00	-7.39	1.08 H	35	14.40	32.21
5	4924.00	51.05 PK	74.00	-22.95	1.24 H	332	12.65	38.40
6	4924.00	46.52 AV	54.00	-7.48	1.24 H	332	8.12	38.40
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	108.49 PK			1.19 V	148	76.37	32.12
2	*2462.00	104.12 AV			1.19 V	148	72.00	32.12
3	2483.50	59.24 PK	74.00	-14.76	1.20 V	148	27.03	32.21
4	2483.50	47.46 AV	54.00	-6.54	1.20 V	148	15.25	32.21
5	4924.00	55.16 PK	74.00	-18.84	1.42 V	85	16.76	38.40
6	4924.00	51.67 AV	54.00	-2.33	1.42 V	85	13.27	38.40

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

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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 71%RH 1010hPa	TESTED BY	Lori Chiu
TEST MODE	A1		

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	60.28 PK	74.00	-13.72	1.00 H	320	27.96	32.32
2	2390.00	46.50 AV	54.00	-7.50	1.00 H	320	14.18	32.32
3	*2412.00	103.03 PK			1.00 H	320	70.71	32.32
4	*2412.00	92.76 AV			1.00 H	320	60.44	32.32
5	3216.00	45.89 PK	83.03	-37.14	1.14 H	283	12.32	33.57
6	3216.00	39.34 AV	72.76	-33.42	1.14 H	283	5.77	33.57
7	4824.00	46.08 PK	74.00	-27.92	1.00 H	142	8.08	38.00
8	4824.00	32.23 AV	54.00	-21.77	1.00 H	142	-5.77	38.00
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	61.32 PK	74.00	-12.68	1.10 V	295	29.00	32.32
2	2390.00	47.66 AV	54.00	-6.34	1.10 V	295	15.34	32.32
3	*2412.00	106.14 PK			1.10 V	295	73.82	32.32
4	*2412.00	96.28 AV			1.10 V	295	63.96	32.32
5	3216.00	44.38 PK	86.14	-41.76	1.11 V	220	10.81	33.57
6	3216.00	36.57 AV	76.28	-39.71	1.11 V	220	3.00	33.57
7	4824.00	46.21 PK	74.00	-27.79	1.02 V	13	8.21	38.00
8	4824.00	32.50 AV	54.00	-21.50	1.02 V	13	-5.50	38.00

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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 71%RH 1010hPa	TESTED BY	Lori Chiu
TEST MODE	A1		

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	103.14 PK			1.32 H	260	70.80	32.34
2	*2437.00	93.30 AV			1.32 H	260	60.96	32.34
3	3248.00	55.36 PK	83.14	-27.78	1.22 H	237	21.90	33.46
4	3248.00	35.76 AV	73.30	-37.54	1.22 H	237	2.30	33.46
5	4874.00	45.13 PK	74.00	-28.87	1.20 H	326	7.01	38.12
6	4874.00	32.50 AV	54.00	-21.50	1.20 H	326	-5.62	38.12
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	106.25 PK			1.12 V	300	73.91	32.34
2	*2437.00	96.31 AV			1.12 V	300	63.97	32.34
3	3248.00	43.41 PK	86.25	-42.84	1.02 V	103	9.95	33.46
4	3248.00	38.93 AV	76.31	-37.38	1.02 V	103	5.47	33.46
5	4874.00	47.11 PK	74.00	-26.89	1.00 V	2	8.99	38.12
6	4874.00	34.02 AV	54.00	-19.98	1.00 V	2	-4.10	38.12

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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 71%RH 1010hPa	TESTED BY	Lori Chiu
TEST MODE	A1		

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	103.00 PK			1.15 H	246	70.63	32.37
2	*2462.00	93.22 AV			1.15 H	246	60.85	32.37
3	2483.50	60.01 PK	74.00	-13.99	1.15 H	246	27.62	32.39
4	2483.50	46.76 AV	54.00	-7.24	1.15 H	246	14.37	32.39
5	3282.00	43.21 PK	83.00	-39.79	1.26 H	210	9.87	33.34
6	3282.00	34.79 AV	73.22	-38.43	1.26 H	210	1.45	33.34
7	4924.00	45.52 PK	74.00	-28.48	1.00 H	67	7.29	38.23
8	4924.00	32.19 AV	54.00	-21.81	1.00 H	67	-6.04	38.23
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	106.09 PK			1.32 V	106	73.72	32.37
2	*2462.00	96.43 AV			1.32 V	106	64.06	32.37
3	2483.50	60.33 PK	74.00	-13.67	1.32 V	106	27.94	32.39
4	2483.50	47.58 AV	54.00	-6.42	1.32 V	106	15.19	32.39
5	3282.00	42.52 PK	86.09	-43.57	1.17 V	346	9.18	33.34
6	3282.00	38.77 AV	76.43	-37.66	1.17 V	346	5.43	33.34
7	4924.00	47.24 PK	74.00	-26.76	1.00 V	10	9.01	38.23
8	4924.00	33.86 AV	54.00	-20.14	1.00 V	10	-4.37	38.23

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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	17deg. C, 68%RH 1010hPa	TESTED BY	Kevin Liang
TEST MODE	B1		

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	64.53 PK	74.00	-9.47	1.11 H	34	32.69	31.84
2	2390.00	46.86 AV	54.00	-7.14	1.11 H	34	15.02	31.84
3	*2412.00	104.15 PK			1.11 H	34	72.22	31.93
4	*2412.00	93.88 AV			1.11 H	34	61.95	31.93
5	4824.00	48.03 PK	74.00	-25.97	1.28 H	9	9.90	38.13
6	4824.00	35.39 AV	54.00	-18.61	1.28 H	9	-2.74	38.13
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	61.35 PK	74.00	-12.65	1.25 V	161	29.51	31.84
2	2390.00	47.99 AV	54.00	-6.01	1.25 V	161	16.15	31.84
3	*2412.00	107.62 PK			1.26 V	151	75.69	31.93
4	*2412.00	97.55 AV			1.26 V	151	65.62	31.93
5	4824.00	49.80 PK	74.00	-24.20	1.48 V	89	11.67	38.13
6	4824.00	36.86 AV	54.00	-17.14	1.48 V	89	-1.27	38.13

- 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. “ * “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	17deg. C, 68%RH 1010hPa	TESTED BY	Kevin Liang
TEST MODE	B1		

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	104.22 PK			1.10 H	41	72.20	32.02
2	*2437.00	94.03 AV			1.10 H	41	62.01	32.02
3	4874.00	48.22 PK	74.00	-25.78	1.33 H	15	9.95	38.27
4	4874.00	35.49 AV	54.00	-18.51	1.33 H	15	-2.78	38.27
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	107.73 PK			1.25 V	168	75.71	32.02
2	*2437.00	97.64 AV			1.25 V	168	65.62	32.02
3	4874.00	50.11 PK	74.00	-23.89	1.42 V	113	11.84	38.27
4	4874.00	36.94 AV	54.00	-17.06	1.42 V	113	-1.33	38.27

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	17deg. C, 68%RH 1010hPa	TESTED BY	Kevin Liang
TEST MODE	B1		

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	104.07 PK			1.12 H	29	71.95	32.12
2	*2462.00	93.68 AV			1.12 H	29	61.56	32.12
3	2483.50	64.69 PK	74.00	-9.31	1.12 H	27	32.48	32.21
4	2483.50	47.18 AV	54.00	-6.82	1.12 H	27	14.97	32.21
5	4924.00	48.11 PK	74.00	-25.89	1.00 H	0	9.71	38.40
6	4924.00	35.57 AV	54.00	-18.43	1.00 H	0	-2.83	38.40
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	107.58 PK			1.27 V	155	75.46	32.12
2	*2462.00	97.42 AV			1.27 V	155	65.30	32.12
3	2483.50	61.53 PK	74.00	-12.47	1.28 V	55	29.32	32.21
4	2483.50	48.24 AV	54.00	-5.76	1.28 V	55	16.03	32.21
5	4924.00	49.86 PK	74.00	-24.14	1.53 V	99	11.46	38.40
6	4924.00	37.30 AV	54.00	-16.70	1.53 V	99	-1.10	38.40

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



DRAFT 802.11n (20MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 71%RH 1010hPa	TESTED BY	Lori Chiu
TEST MODE	A1		

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	66.41 PK	74.00	-7.59	1.05 H	46	34.09	32.32
2	2390.00	49.08 AV	54.00	-4.92	1.05 H	46	16.76	32.32
3	*2412.00	104.13 PK			1.05 H	46	71.81	32.32
4	*2412.00	93.25 AV			1.05 H	46	60.93	32.32
5	3216.00	44.63 PK	84.13	-39.50	1.30 H	266	11.06	33.57
6	3216.00	36.12 AV	73.25	-37.13	1.30 H	266	2.55	33.57
7	4824.00	45.67 PK	74.00	-28.33	1.00 H	33	7.67	38.00
8	4824.00	33.05 AV	54.00	-20.95	1.00 H	33	-4.95	38.00
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	67.46 PK	74.00	-6.54	1.33 V	204	35.14	32.32
2	2390.00	50.33 AV	54.00	-3.67	1.33 V	204	18.01	32.32
3	*2412.00	108.20 PK			1.33 V	204	75.88	32.32
4	*2412.00	98.13 AV			1.33 V	204	65.81	32.32
5	3216.00	45.79 PK	88.20	-42.41	1.11 V	160	12.22	33.57
6	3216.00	39.22 AV	78.13	-38.91	1.11 V	160	5.65	33.57
7	4824.00	46.85 PK	74.00	-27.15	1.06 V	11	8.85	38.00
8	4824.00	33.72 AV	54.00	-20.28	1.06 V	11	-4.28	38.00

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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 71%RH 1010hPa	TESTED BY	Lori Chiu
TEST MODE	A1		

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	*2412.00	104.20 PK			1.42 H	250	71.88	32.32
2	*2412.00	93.67 AV			1.42 H	250	61.35	32.32
3	3248.00	44.52 PK	84.20	-39.68	1.00 H	72	11.06	33.46
4	3248.00	35.92 AV	73.67	-37.75	1.00 H	72	2.46	33.46
5	4874.00	45.37 PK	74.00	-28.63	1.10 H	289	7.25	38.12
6	4874.00	32.55 AV	54.00	-21.45	1.10 H	289	-5.57	38.12
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	108.43 PK			1.20 V	213	76.09	32.34
2	*2437.00	98.22 AV			1.20 V	213	65.88	32.34
3	3248.00	43.13 PK	88.43	-45.30	1.03 V	138	9.67	33.46
4	3248.00	38.52 AV	78.22	-39.70	1.03 V	138	5.06	33.46
5	4874.00	46.42 PK	74.00	-27.58	1.00 V	326	8.30	38.12
6	4874.00	33.79 AV	54.00	-20.21	1.00 V	326	-4.33	38.12

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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 71%RH 1010hPa	TESTED BY	Lori Chiu
TEST MODE	A1		

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	104.25 PK			1.35 H	13	71.88	32.37
2	*2462.00	93.70 AV			1.35 H	13	61.33	32.37
3	2483.50	66.60 PK	74.00	-7.40	1.35 H	13	34.21	32.39
4	2483.50	49.37 AV	54.00	-4.63	1.35 H	13	16.98	32.39
5	3282.00	43.32 PK	84.25	-40.93	1.00 H	323	9.98	33.34
6	3282.00	34.68 AV	73.70	-39.02	1.00 H	323	1.34	33.34
7	4924.00	45.19 PK	74.00	-28.81	1.27 H	218	6.96	38.23
8	4924.00	32.80 AV	54.00	-21.20	1.27 H	218	-5.43	38.23
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	108.49 PK			1.06 V	250	76.12	32.37
2	*2462.00	98.37 AV			1.06 V	250	66.00	32.37
3	2483.50	67.56 PK	74.00	-6.44	1.06 V	250	35.17	32.39
4	2483.50	50.88 AV	54.00	-3.12	1.06 V	250	18.49	32.39
5	3282.00	42.35 PK	88.49	-46.14	1.00 V	246	9.01	33.34
6	3282.00	38.74 AV	78.37	-39.63	1.00 V	246	5.40	33.34
7	4924.00	46.59 PK	74.00	-27.41	1.11 V	12	8.36	38.23
8	4924.00	34.20 AV	54.00	-19.80	1.11 V	12	-4.03	38.23

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	17deg. C, 68%RH 1010hPa	TESTED BY	Kevin Liang
TEST MODE	B1		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.91 PK	74.00	-8.09	1.10 H	31	34.07	31.84
2	2390.00	48.86 AV	54.00	-5.14	1.10 H	31	17.02	31.84
3	*2412.00	105.27 PK			1.10 H	31	73.34	31.93
4	*2412.00	94.91 AV			1.10 H	31	62.98	31.93
5	4824.00	48.18 PK	74.00	-25.82	1.26 H	6	10.05	38.13
6	4824.00	35.40 AV	54.00	-18.60	1.26 H	6	-2.73	38.13
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.82 PK	74.00	-5.18	1.25 V	345	36.98	31.84
2	2390.00	51.17 AV	54.00	-2.83	1.25 V	345	19.33	31.84
3	*2412.00	109.77 PK			1.25 V	346	77.84	31.93
4	*2412.00	99.60 AV			1.25 V	346	67.67	31.93
5	4824.00	53.94 PK	74.00	-20.06	1.25 V	261	15.81	38.13
6	4824.00	39.41 AV	54.00	-14.59	1.25 V	261	1.28	38.13

- 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. “ * “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	17deg. C, 68%RH 1010hPa	TESTED BY	Kevin Liang
TEST MODE	B1		

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	105.34 PK			1.08 H	33	73.32	32.02
2	*2437.00	95.12 AV			1.08 H	33	63.10	32.02
3	4874.00	48.24 PK	74.00	-25.76	1.28 H	12	9.97	38.27
4	4874.00	35.56 AV	54.00	-18.44	1.28 H	12	-2.71	38.27
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	109.83 PK			1.28 V	341	77.81	32.02
2	*2437.00	99.67 AV			1.28 V	341	67.65	32.02
3	4874.00	54.16 PK	74.00	-19.84	1.17 V	263	15.89	38.27
4	4874.00	39.58 AV	54.00	-14.42	1.17 V	263	1.31	38.27

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	17deg. C, 68%RH 1010hPa	TESTED BY	Kevin Liang
TEST MODE	B1		

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	105.20 PK			1.13 H	35	73.08	32.12
2	*2462.00	94.79 AV			1.13 H	35	62.67	32.12
3	2483.50	65.76 PK	74.00	-8.24	1.13 H	35	33.55	32.21
4	2483.50	48.67 AV	54.00	-5.33	1.13 H	35	16.46	32.21
5	4924.00	48.15 PK	74.00	-25.85	1.30 H	357	9.75	38.40
6	4924.00	35.60 AV	54.00	-18.40	1.30 H	357	-2.80	38.40
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	109.65 PK			1.23 V	341	77.53	32.12
2	*2462.00	99.52 AV			1.23 V	341	67.40	32.12
3	2483.50	68.41 PK	74.00	-5.59	1.23 V	348	36.20	32.21
4	2483.50	51.56 AV	54.00	-2.44	1.23 V	348	19.35	32.21
5	4924.00	53.86 PK	74.00	-20.14	1.29 V	253	15.46	38.40
6	4924.00	39.38 AV	54.00	-14.62	1.29 V	253	0.98	38.40

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



DRAFT 802.11n (40MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 71%RH 1010hPa	TESTED BY	Lori Chiu
TEST MODE	A1		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.34 PK	74.00	-15.66	1.03 H	241	26.02	32.32
2	2390.00	47.58 AV	54.00	-6.42	1.03 H	241	15.26	32.32
3	*2422.00	97.02 PK			1.03 H	241	64.69	32.33
4	*2422.00	86.89 AV			1.03 H	241	54.56	32.33
5	3282.00	44.62 PK	77.02	-32.40	1.00 H	325	11.28	33.34
6	3282.00	36.29 AV	66.89	-30.60	1.00 H	325	2.95	33.34
7	4844.00	45.63 PK	74.00	-28.37	1.02 H	268	7.58	38.05
8	4844.00	32.80 AV	54.00	-21.20	1.02 H	268	-5.25	38.05

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	61.07 PK	74.00	-12.93	1.16 V	206	28.75	32.32
2	2390.00	50.56 AV	54.00	-3.44	1.16 V	206	18.24	32.32
3	*2422.00	101.43 PK			1.16 V	206	69.10	32.33
4	*2422.00	91.27 AV			1.16 V	206	58.94	32.33
5	3228.00	45.59 PK	81.43	-35.84	1.00 V	246	12.07	33.52
6	3228.00	39.35 AV	71.27	-31.92	1.00 V	246	5.83	33.52
7	4844.00	46.78 PK	74.00	-27.22	1.00 V	2	8.73	38.05
8	4844.00	33.80 AV	54.00	-20.20	1.00 V	2	-4.25	38.05

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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 71%RH 1010hPa	TESTED BY	Lori Chiu
TEST MODE	A1		

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	97.18 PK			1.52 H	316	64.84	32.34
2	*2437.00	87.04 AV			1.52 H	316	54.70	32.34
3	3248.00	43.37 PK	77.18	-33.81	1.23 H	261	9.91	33.46
4	3248.00	35.55 AV	67.04	-31.49	1.23 H	261	2.09	33.46
5	4874.00	48.26 PK	74.00	-25.74	1.24 H	279	10.14	38.12
6	4874.00	35.70 AV	54.00	-18.30	1.24 H	279	-2.42	38.12
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	101.87 PK			1.25 V	180	69.53	32.34
2	*2437.00	91.34 AV			1.25 V	180	59.00	32.34
3	3248.00	44.28 PK	81.87	-37.59	1.00 V	56	10.82	33.46
4	3248.00	38.75 AV	71.34	-32.59	1.00 V	56	5.29	33.46
5	4874.00	49.70 PK	74.00	-24.30	1.20 V	166	11.58	38.12
6	4874.00	35.86 AV	54.00	-18.14	1.20 V	166	-2.26	38.12

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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	22deg. C, 71%RH 1010hPa	TESTED BY	Lori Chiu
TEST MODE	A1		

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	97.22 PK			1.20 H	67	64.86	32.36
2	*2452.00	97.16 AV			1.20 H	67	64.80	32.36
3	2483.50	58.40 PK	74.00	-15.60	1.20 H	67	26.01	32.39
4	2483.50	47.67 AV	54.00	-6.33	1.20 H	67	15.28	32.39
5	3268.00	42.87 PK	74.00	-31.13	1.00 H	267	9.48	33.39
6	3268.00	35.13 AV	54.00	-18.87	1.00 H	267	1.74	33.39
7	4904.00	47.35 PK	74.00	-26.65	1.00 H	26	9.16	38.19
8	4904.00	34.25 AV	54.00	-19.75	1.00 H	26	-3.94	38.19
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	*2452.00	102.00 PK			1.24 V	258	69.64	32.36
2	*2452.00	91.60 AV			1.24 V	258	59.24	32.36
3	2483.50	61.33 PK	74.00	-12.67	1.24 V	258	28.94	32.39
4	2483.50	50.89 AV	54.00	-3.11	1.24 V	258	18.50	32.39
5	3268.00	44.06 PK	74.00	-29.94	1.06 V	79	10.67	33.39
6	3268.00	38.64 AV	54.00	-15.36	1.06 V	79	5.25	33.39
7	4904.00	48.34 PK	74.00	-25.66	1.00 V	356	10.15	38.19
8	4904.00	35.04 AV	54.00	-18.96	1.00 V	356	-3.15	38.19

- 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. “ * “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	17deg. C, 68%RH 1010hPa	TESTED BY	Kevin Liang
TEST MODE	B1		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.52 PK	74.00	-14.48	1.09 H	32	27.68	31.84
2	2390.00	48.12 AV	54.00	-5.88	1.09 H	32	16.28	31.84
3	*2422.00	98.18 PK			1.09 H	32	66.21	31.97
4	*2422.00	88.11 AV			1.09 H	32	56.14	31.97
5	4844.00	47.24 PK	74.00	-26.76	1.14 H	48	9.06	38.18
6	4844.00	34.31 AV	54.00	-19.69	1.14 H	48	-3.87	38.18
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	62.26 PK	74.00	-11.74	1.20 V	156	30.42	31.84
2	2390.00	51.53 AV	54.00	-2.47	1.20 V	156	19.69	31.84
3	*2422.00	103.02 PK			1.20 V	145	71.05	31.97
4	*2422.00	92.76 AV			1.20 V	145	60.79	31.97
5	4844.00	48.15 PK	74.00	-25.85	1.08 V	249	9.97	38.18
6	4844.00	34.83 AV	54.00	-19.17	1.08 V	249	-3.35	38.18

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	17deg. C, 68%RH 1010hPa	TESTED BY	Kevin Liang
TEST MODE	B1		

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	98.26 PK			1.12 H	34	66.24	32.02
2	*2437.00	88.13 AV			1.12 H	34	56.11	32.02
3	4874.00	47.35 PK	74.00	-26.65	1.16 H	53	9.08	38.27
4	4874.00	34.59 AV	54.00	-19.41	1.16 H	53	-3.68	38.27
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	103.25 PK			1.23 V	141	71.23	32.02
2	*2437.00	92.87 AV			1.23 V	141	60.85	32.02
3	4874.00	48.37 PK	74.00	-25.63	1.09 V	261	10.10	38.27
4	4874.00	35.10 AV	54.00	-18.90	1.09 V	261	-3.17	38.27

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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	17deg. C, 68%RH 1010hPa	TESTED BY	Kevin Liang
TEST MODE	B1		

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	98.24 PK			1.13 H	37	66.16	32.08
2	*2452.00	88.20 AV			1.13 H	37	56.12	32.08
3	2483.50	60.31 PK	74.00	-13.69	1.00 H	42	28.10	32.21
4	2483.50	48.39 AV	54.00	-5.61	1.00 H	42	16.18	32.21
5	4904.00	47.49 PK	74.00	-26.51	1.18 H	59	9.14	38.35
6	4904.00	34.52 AV	54.00	-19.48	1.18 H	59	-3.83	38.35
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	103.08 PK			1.22 V	148	71.00	32.08
2	*2452.00	92.87 AV			1.22 V	148	60.79	32.08
3	2483.50	62.51 PK	74.00	-11.49	1.22 V	160	30.30	32.21
4	2483.50	51.76 AV	54.00	-2.24	1.22 V	160	19.55	32.21
5	4904.00	48.26 PK	74.00	-25.74	1.09 V	253	9.91	38.35
6	4904.00	35.17 AV	54.00	-18.83	1.09 V	253	-3.18	38.35

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



BELOW 1GHz WORST-CASE DATA : 802.11b DSSS MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	23deg. C, 62%RH 1010hPa	TESTED BY	Brad Wu
TEST MODE	A1		

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	132.95	37.01 QP	43.50	-6.49	1.00 H	145	24.01	13.00
2	267.10	39.70 QP	46.00	-6.30	1.00 H	259	25.64	14.06
3	399.31	35.42 QP	46.00	-10.58	1.00 H	64	18.10	17.31
4	533.47	31.07 QP	46.00	-14.93	1.50 H	181	9.68	21.39
5	799.84	33.67 QP	46.00	-12.33	2.00 H	337	7.24	26.43
6	904.83	35.79 QP	46.00	-10.21	1.00 H	193	7.78	28.01
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	37.68	37.29 QP	40.00	-2.71	1.00 V	295	24.76	12.54
2	267.10	36.67 QP	46.00	-9.33	1.00 V	73	22.61	14.06
3	399.31	36.61 QP	46.00	-9.39	1.00 V	163	19.30	17.31
4	533.47	32.25 QP	46.00	-13.75	2.00 V	172	10.86	21.39
5	667.63	29.69 QP	46.00	-16.31	1.50 V	151	5.07	24.61
6	799.84	32.31 QP	46.00	-13.69	1.50 V	295	5.88	26.43

- 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
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	23deg. C, 62%RH 1010hPa	TESTED BY	Brad Wu
TEST MODE	A2		

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	144.61	30.48 QP	43.50	-13.02	2.00 H	67	16.38	14.09
2	267.10	33.55 QP	46.00	-12.45	1.50 H	43	19.49	14.06
3	399.31	37.33 QP	46.00	-8.67	1.00 H	67	20.02	17.31
4	479.03	29.97 QP	46.00	-16.03	2.00 H	310	10.13	19.85
5	624.85	30.43 QP	46.00	-15.57	1.50 H	46	6.73	23.70
6	799.84	31.17 QP	46.00	-14.83	1.00 H	10	4.75	26.43
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	43.51	36.70 QP	40.00	-3.30	1.50 V	220	23.83	12.87
2	105.73	34.01 QP	43.50	-9.49	1.00 V	232	23.31	10.70
3	267.10	35.42 QP	46.00	-10.58	1.50 V	223	21.36	14.06
4	399.31	37.50 QP	46.00	-8.50	1.50 V	178	20.19	17.31
5	533.47	32.82 QP	46.00	-13.18	1.00 V	319	11.43	21.39
6	799.84	31.70 QP	46.00	-14.30	1.50 V	292	5.27	26.43

- 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
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	23deg. C, 62%RH 1010hPa	TESTED BY	Brad Wu
TEST MODE	A3		

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	132.95	30.65 QP	43.50	-12.85	2.00 H	142	17.65	13.00
2	267.10	40.13 QP	46.00	-5.87	1.00 H	241	26.07	14.06
3	399.31	34.67 QP	46.00	-11.33	1.00 H	25	17.36	17.31
4	479.03	30.52 QP	46.00	-15.48	2.00 H	313	10.68	19.85
5	799.84	33.00 QP	46.00	-13.00	2.00 H	346	6.57	26.43
6	961.21	32.83 QP	54.00	-21.17	1.50 H	97	4.16	28.67
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	39.62	37.45 QP	40.00	-2.55	1.00 V	130	24.96	12.49
2	125.17	34.22 QP	43.50	-9.28	1.00 V	208	21.68	12.53
3	237.94	32.71 QP	46.00	-13.29	1.00 V	112	19.58	13.13
4	399.31	37.46 QP	46.00	-8.54	1.50 V	169	20.15	17.31
5	667.63	31.94 QP	46.00	-14.06	1.50 V	115	7.33	24.61
6	799.84	32.22 QP	46.00	-13.78	1.50 V	106	5.79	26.43

- 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
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	23deg. C, 62%RH 1010hPa	TESTED BY	Brad Wu
TEST MODE	A4		

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	132.95	31.06 QP	43.50	-12.44	2.00 H	295	18.06	13.00
2	267.10	36.57 QP	46.00	-9.43	1.00 H	268	22.51	14.06
3	399.31	35.34 QP	46.00	-10.66	1.00 H	55	18.03	17.31
4	533.47	31.55 QP	46.00	-14.45	1.50 H	154	10.17	21.39
5	799.84	33.05 QP	46.00	-12.95	1.00 H	10	6.62	26.43
6	961.21	31.46 QP	54.00	-22.54	1.50 H	193	2.79	28.67
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	37.68	36.65 QP	40.00	-3.35	1.00 V	112	24.11	12.54
2	267.10	35.41 QP	46.00	-10.59	1.00 V	31	21.35	14.06
3	399.31	36.17 QP	46.00	-9.83	1.50 V	148	18.85	17.31
4	533.47	31.02 QP	46.00	-14.98	1.00 V	310	9.63	21.39
5	799.84	32.30 QP	46.00	-13.70	1.50 V	58	5.87	26.43
6	961.21	30.99 QP	54.00	-23.01	1.50 V	328	2.32	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
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	17deg. C, 68%RH 1010hPa	TESTED BY	Kevin Liang
TEST MODE	B1		

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	132.95	35.24 QP	43.50	-8.26	1.50 H	106	22.24	13.00
2	267.10	44.61 QP	46.00	-1.39	1.00 H	160	30.55	14.06
3	399.31	31.75 QP	46.00	-14.25	1.00 H	190	14.43	17.31
4	533.47	31.36 QP	46.00	-14.64	1.50 H	151	9.97	21.39
5	805.67	34.00 QP	46.00	-12.00	1.00 H	166	7.48	26.51
6	960.00	33.34 QP	46.00	-12.66	1.50 H	220	4.69	28.65

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	37.68	38.50 QP	40.00	-1.50	1.00 V	46	25.96	12.54
2	62.95	37.34 QP	40.00	-2.66	1.00 V	298	23.97	13.37
3	132.95	35.09 QP	43.50	-8.41	1.00 V	82	22.09	13.00
4	267.10	41.18 QP	46.00	-4.82	1.00 V	103	27.12	14.06
5	533.47	32.14 QP	46.00	-13.86	1.00 V	328	10.75	21.39
6	955.38	31.81 QP	46.00	-14.19	1.00 V	37	3.22	28.59

- 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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	17deg. C, 68%RH 1010hPa	TESTED BY	Kevin Liang
TEST MODE	B2		

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	84.34	28.98 QP	40.00	-11.02	1.50 H	256	18.90	10.08
2	132.95	36.03 QP	43.50	-7.47	1.50 H	109	23.02	13.00
3	267.10	43.31 QP	46.00	-2.69	1.50 H	256	29.25	14.06
4	640.41	32.78 QP	46.00	-13.22	1.50 H	151	8.73	24.05
5	799.84	35.76 QP	46.00	-10.24	1.00 H	178	9.33	26.43
6	933.99	33.18 QP	46.00	-12.82	1.50 H	211	4.85	28.34
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	37.68	37.90 QP	40.00	-2.10	1.50 V	58	25.36	12.54
2	59.06	38.28 QP	40.00	-1.72	1.50 V	292	24.36	13.92
3	101.84	36.58 QP	43.50	-6.92	1.00 V	163	26.29	10.29
4	267.10	37.21 QP	46.00	-8.79	1.00 V	178	23.15	14.06
5	667.63	31.51 QP	46.00	-14.49	1.50 V	283	6.90	24.61
6	799.84	34.44 QP	46.00	-11.56	1.50 V	307	8.02	26.43

- 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
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	17deg. C, 68%RH 1010hPa	TESTED BY	Kevin Liang
TEST MODE	B3		

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	132.95	36.37 QP	43.50	-7.13	1.50 H	103	23.36	13.00
2	267.10	44.14 QP	46.00	-1.86	1.00 H	172	30.08	14.06
3	399.31	32.08 QP	46.00	-13.92	1.00 H	187	14.77	17.31
4	533.47	31.91 QP	46.00	-14.09	1.50 H	160	10.53	21.39
5	834.84	32.07 QP	46.00	-13.93	1.00 H	217	5.14	26.93
6	933.99	32.29 QP	46.00	-13.71	1.50 H	199	3.96	28.34
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	37.68	37.92 QP	40.00	-2.08	1.00 V	43	25.38	12.54
2	59.06	38.84 QP	40.00	-1.16	1.00 V	298	24.92	13.92
3	132.95	33.80 QP	43.50	-9.70	1.50 V	79	20.80	13.00
4	267.10	37.60 QP	46.00	-8.40	1.00 V	58	23.54	14.06
5	533.47	31.02 QP	46.00	-14.98	1.00 V	10	9.63	21.39
6	799.84	33.23 QP	46.00	-12.77	1.50 V	7	6.80	26.43

- 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
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	17deg. C, 68%RH 1010hPa	TESTED BY	Kevin Liang
TEST MODE	B4		

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	132.95	36.70 QP	43.50	-6.80	1.50 H	106	23.70	13.00
2	199.05	30.00 QP	43.50	-13.50	1.50 H	247	18.60	11.40
3	267.10	44.33 QP	46.00	-1.67	1.00 H	247	30.27	14.06
4	533.47	30.60 QP	46.00	-15.40	1.50 H	127	9.22	21.39
5	799.84	35.45 QP	46.00	-10.55	1.00 H	175	9.02	26.43
6	933.99	30.29 QP	46.00	-15.71	1.50 H	43	1.96	28.34
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	37.68	37.42 QP	40.00	-2.58	1.50 V	97	24.89	12.54
2	59.06	37.84 QP	40.00	-2.16	1.00 V	259	23.92	13.92
3	101.84	36.40 QP	43.50	-7.10	1.00 V	241	26.12	10.29
4	267.10	38.76 QP	46.00	-7.24	1.00 V	286	24.70	14.06
5	667.63	30.16 QP	46.00	-15.84	1.00 V	316	5.55	24.61
6	799.84	33.19 QP	46.00	-12.81	1.50 V	217	6.77	26.43

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



4.2 CONDUCTED EMISSION MEASUREMENT

4.2.1 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.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	100288	Sep. 21, 2008
RF signal cable Woken	5D-FB	Cable-HYCO3-01	Jan. 06, 2009
LISN ROHDE & SCHWARZ	ESH2-Z5	100100	Jan. 09, 2009
LISN SCHWARZBECK	NNBL 8226-2	8226-142	May 07, 2008
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.

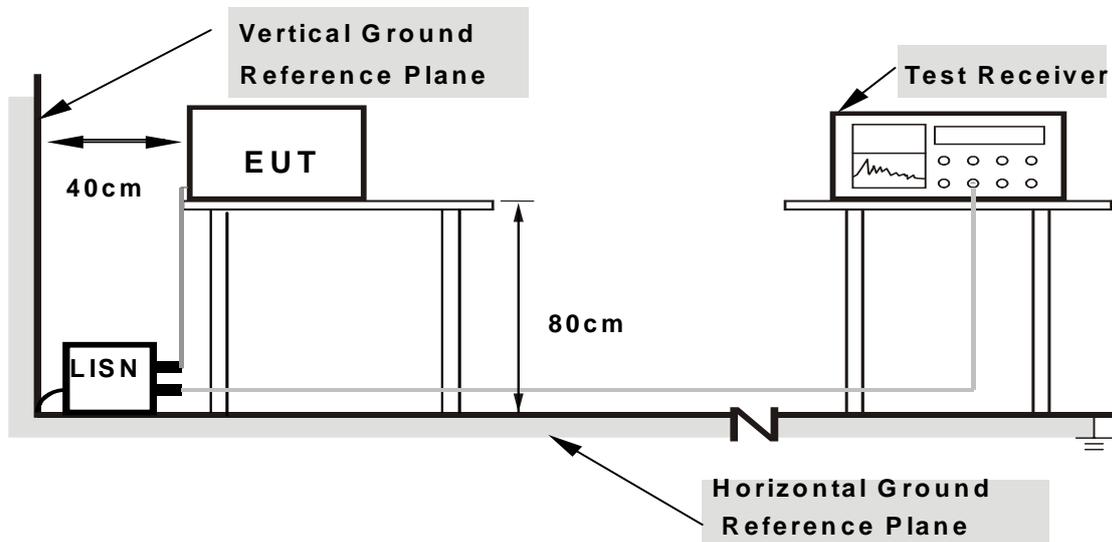
4.2.3 TEST PROCEDURES

- 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.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 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 attached file (Test Setup Photo).

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6

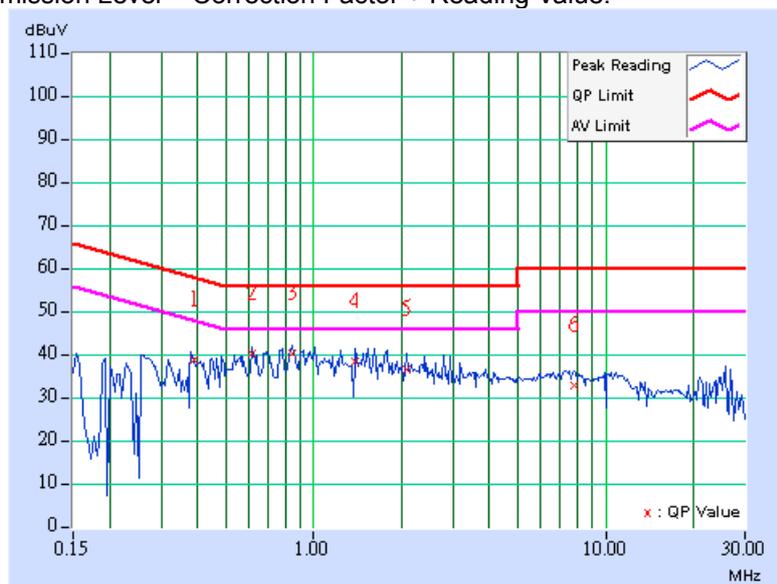
4.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA 802.11b DSSS MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
ENVIRONMENTAL CONDITIONS	17deg. C, 70% RH, 991hPa	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TESTED BY	Kevin Liang
TEST MODE	B1		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.387	0.10	38.66	-	38.76	-	58.13	48.13	-19.37	-
2	0.617	0.10	40.02	-	40.12	-	56.00	46.00	-15.88	-
3	0.849	0.11	40.23	-	40.34	-	56.00	46.00	-15.66	-
4	1.391	0.15	38.38	-	38.53	-	56.00	46.00	-17.47	-
5	2.082	0.22	36.53	-	36.75	-	56.00	46.00	-19.25	-
6	7.801	0.31	32.60	-	32.91	-	60.00	50.00	-27.09	-

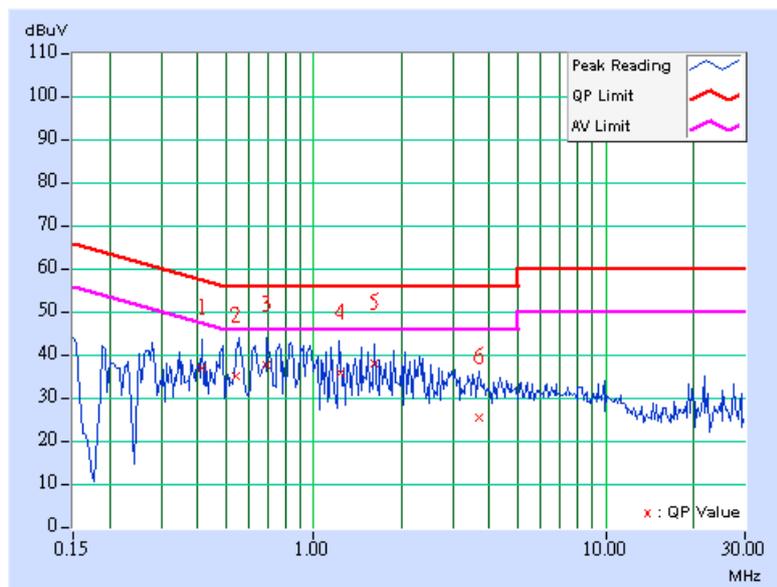
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 2
ENVIRONMENTAL CONDITIONS	17deg. C, 70% RH, 991hPa	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TESTED BY	Kevin Liang
TEST MODE	B1		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.416	0.10	36.80	-	36.90	-	57.54
2	0.539	0.13	34.73	-	34.86	-	56.00	46.00	-21.14	-
3	0.689	0.15	37.67	-	37.82	-	56.00	46.00	-18.18	-
4	1.239	0.21	35.74	-	35.95	-	56.00	46.00	-20.05	-
5	1.622	0.22	38.04	-	38.26	-	56.00	46.00	-17.74	-
6	3.676	0.27	25.21	-	25.48	-	56.00	46.00	-30.52	-

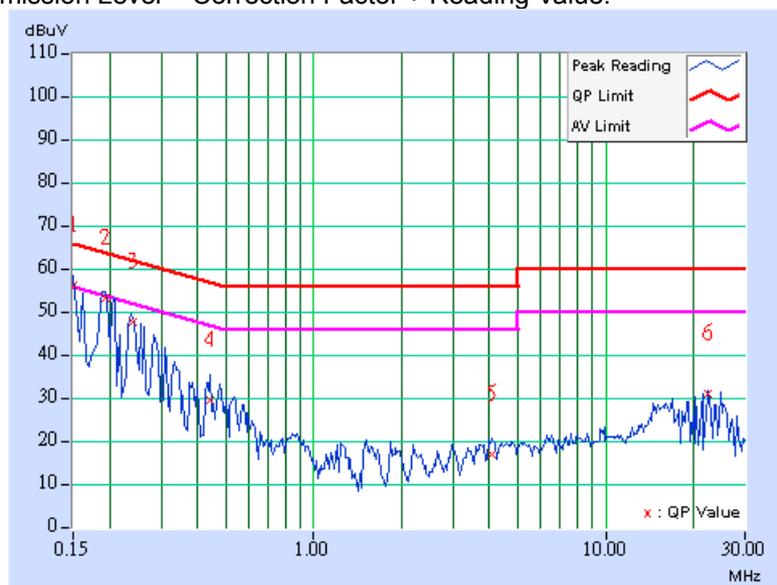
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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 1	PHASE	Line 1
ENVIRONMENTAL CONDITIONS	17deg. C, 70% RH, 991hPa	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TESTED BY	Kevin Liang
TEST MODE	B2		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.10	55.76	-	55.86	-	66.00	56.00	-10.14	-
2	0.193	0.10	52.71	-	52.81	-	63.91	53.91	-11.10	-
3	0.241	0.10	47.02	-	47.12	-	62.06	52.06	-14.94	-
4	0.442	0.10	28.75	-	28.85	-	57.03	47.03	-28.18	-
5	4.074	0.28	16.31	-	16.59	-	56.00	46.00	-39.41	-
6	22.514	0.70	30.30	-	31.00	-	60.00	50.00	-29.00	-

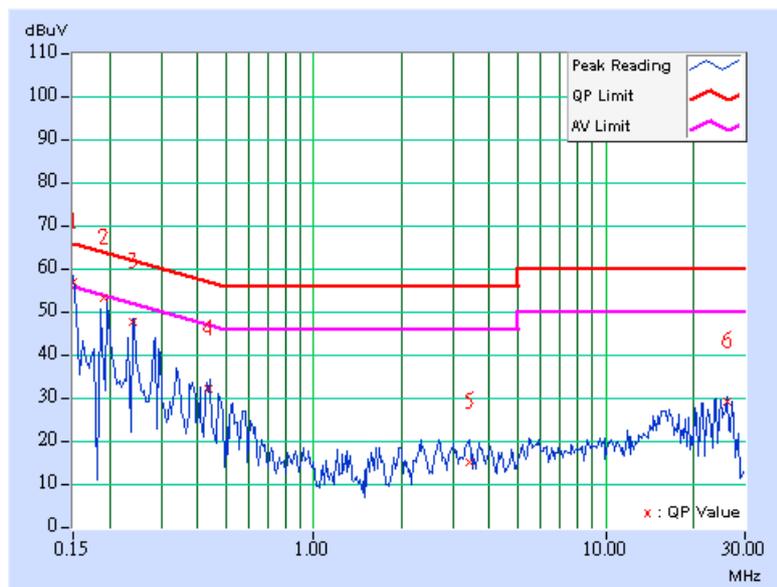
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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
ENVIRONMENTAL CONDITIONS	17deg. C, 70% RH, 991hPa	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TESTED BY	Kevin Liang
TEST MODE	B2		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.10	56.38	39.43	56.48	39.53	66.00	56.00	-9.52	-16.47
2	0.192	0.10	52.53	-	52.63	-	63.96	53.96	-11.33	-
3	0.240	0.10	46.92	-	47.02	-	62.10	52.10	-15.08	-
4	0.437	0.11	31.57	-	31.68	-	57.13	47.13	-25.45	-
5	3.398	0.26	14.30	-	14.56	-	56.00	46.00	-41.44	-
6	26.135	0.77	28.42	-	29.19	-	60.00	50.00	-30.81	-

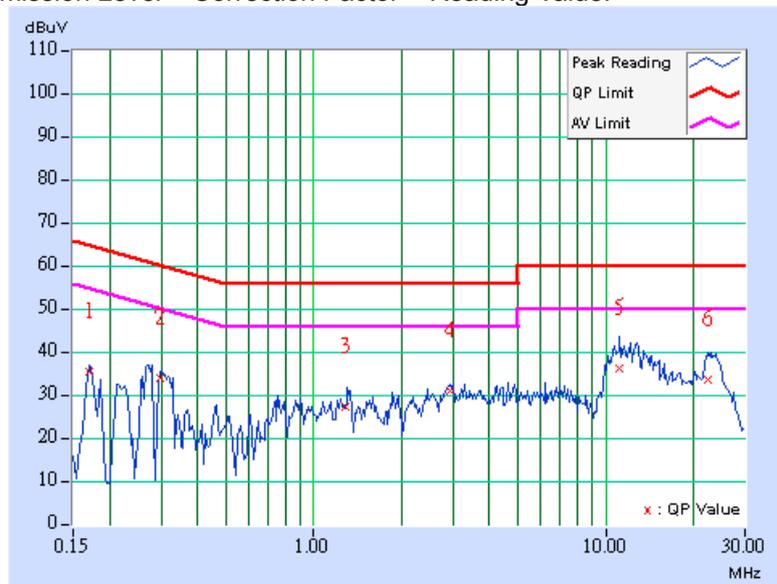
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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 1
ENVIRONMENTAL CONDITIONS	17deg. C, 70% RH, 991hPa	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TESTED BY	Kevin Liang
TEST MODE	B3		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.171	0.10	34.88	-	34.98	-	64.92
2	0.298	0.10	33.56	-	33.66	-	60.29	50.29	-26.63	-
3	1.286	0.14	26.53	-	26.67	-	56.00	46.00	-29.33	-
4	2.922	0.25	30.51	-	30.76	-	56.00	46.00	-25.24	-
5	11.129	0.36	35.49	-	35.85	-	60.00	50.00	-24.15	-
6	22.445	0.69	32.91	-	33.60	-	60.00	50.00	-26.40	-

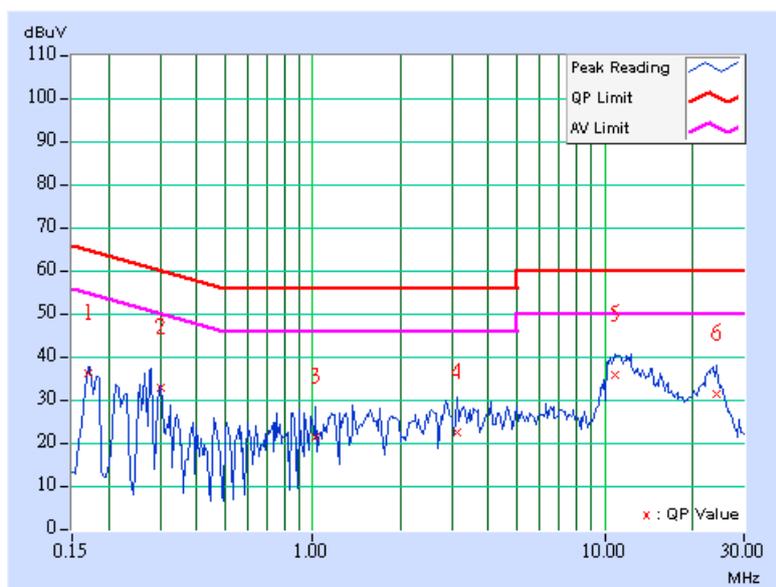
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 2
ENVIRONMENTAL CONDITIONS	17deg. C, 70% RH, 991hPa	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TESTED BY	Kevin Liang
TEST MODE	B3		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	35.68	-	35.78	-	64.98	54.98	-29.20	-
2	0.300	0.10	32.40	-	32.50	-	60.23	50.23	-27.73	-
3	1.027	0.21	20.87	-	21.08	-	56.00	46.00	-34.92	-
4	3.121	0.25	21.92	-	22.17	-	56.00	46.00	-33.83	-
5	10.805	0.44	35.15	-	35.59	-	60.00	50.00	-24.41	-
6	24.090	0.69	30.90	-	31.59	-	60.00	50.00	-28.41	-

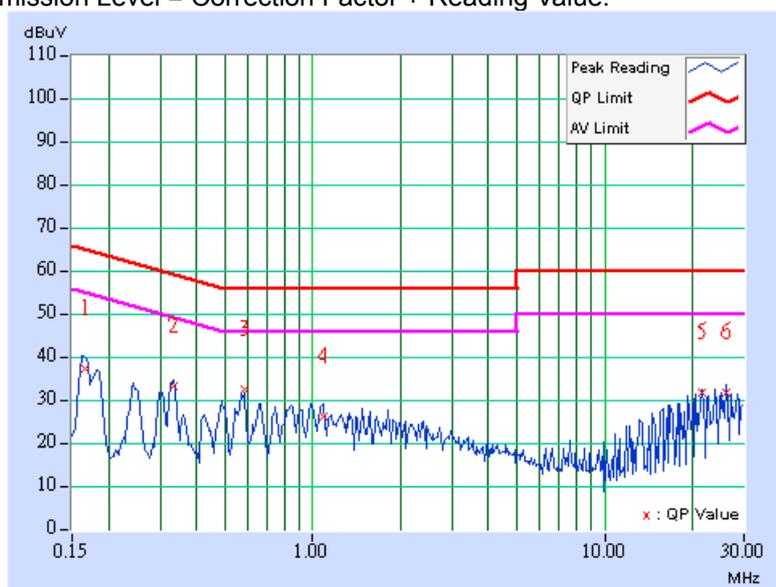
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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 1
ENVIRONMENTAL CONDITIONS	17deg. C, 70% RH, 991hPa	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TESTED BY	Kevin Liang
TEST MODE	B4		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.167	0.10	36.54	-	36.64	-	65.12
2	0.334	0.10	32.55	-	32.65	-	59.36	49.36	-26.71	-
3	0.584	0.10	31.70	-	31.80	-	56.00	46.00	-24.20	-
4	1.086	0.12	25.56	-	25.68	-	56.00	46.00	-30.32	-
5	21.449	0.64	31.11	-	31.75	-	60.00	50.00	-28.25	-
6	26.070	0.91	31.11	-	32.02	-	60.00	50.00	-27.98	-

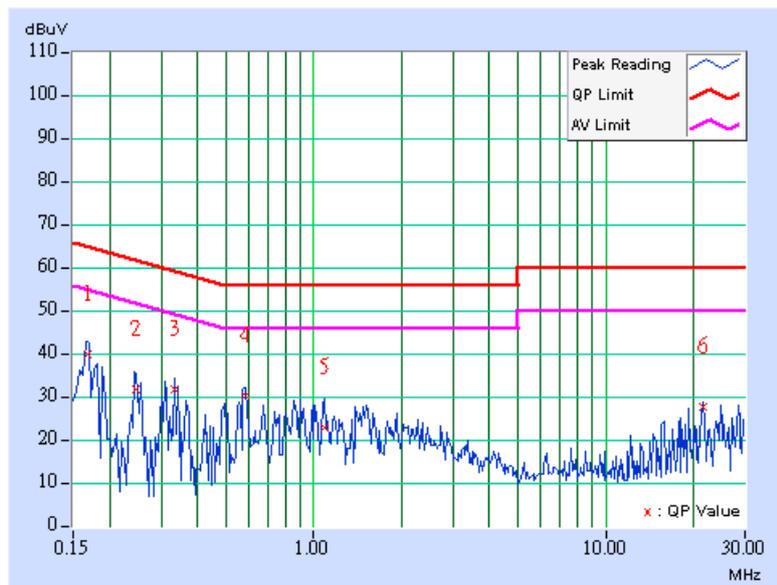
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = 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 1	PHASE	Line 2
ENVIRONMENTAL CONDITIONS	17deg. C, 70% RH, 991hPa	6dB BANDWIDTH	9 kHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	TESTED BY	Kevin Liang
TEST MODE	B4		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.168	0.10	39.52	-	39.62	-	65.05	55.05	-25.43	-
2	0.248	0.10	31.34	-	31.44	-	61.84	51.84	-30.40	-
3	0.334	0.10	31.33	-	31.43	-	59.36	49.36	-27.93	-
4	0.585	0.13	29.59	-	29.72	-	56.00	46.00	-26.28	-
5	1.094	0.21	22.36	-	22.57	-	56.00	46.00	-33.43	-
6	21.452	0.61	26.98	-	27.59	-	60.00	50.00	-32.41	-

- 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.





4.3 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	100040	Jun. 28, 2008

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

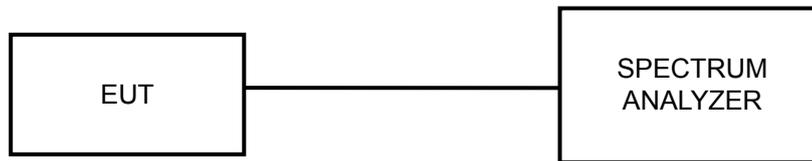
4.3.3 TEST PROCEDURE

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 300kHz 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.

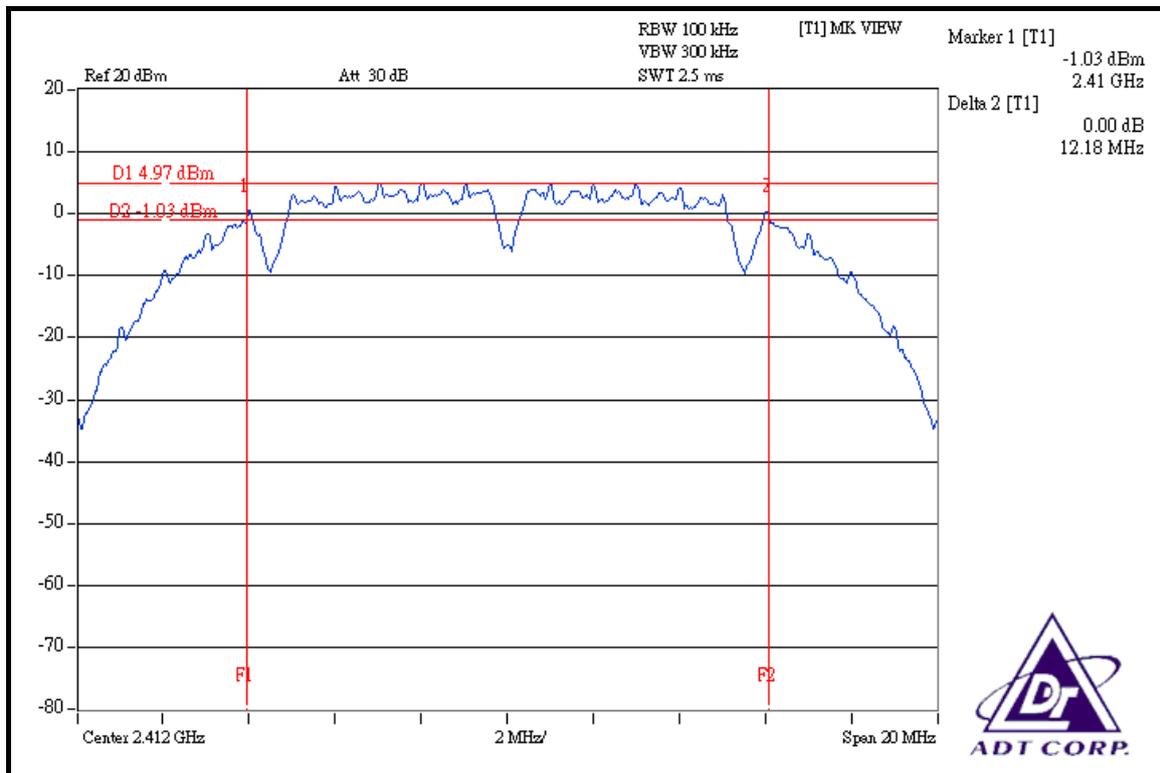
4.3.7 TEST RESULTS

802.11b DSSS MODULATION

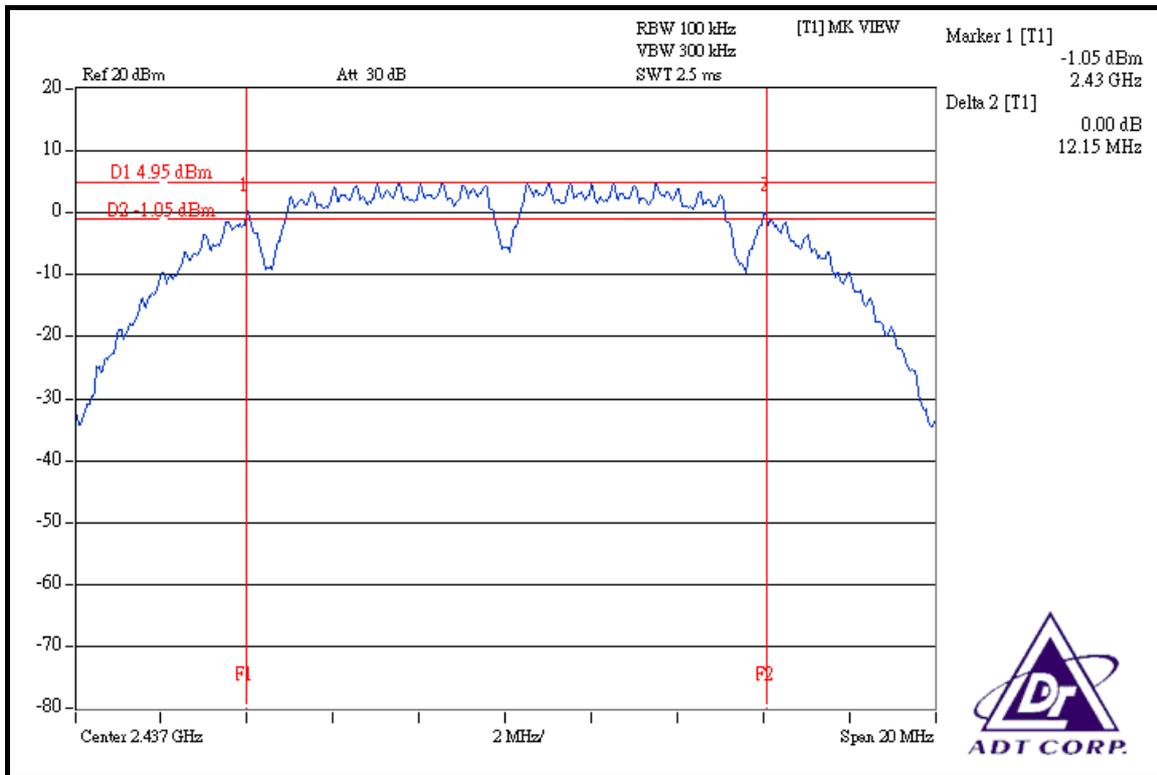
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 65% RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	12.18	0.5	PASS
6	2437	12.15	0.5	PASS
11	2462	12.17	0.5	PASS

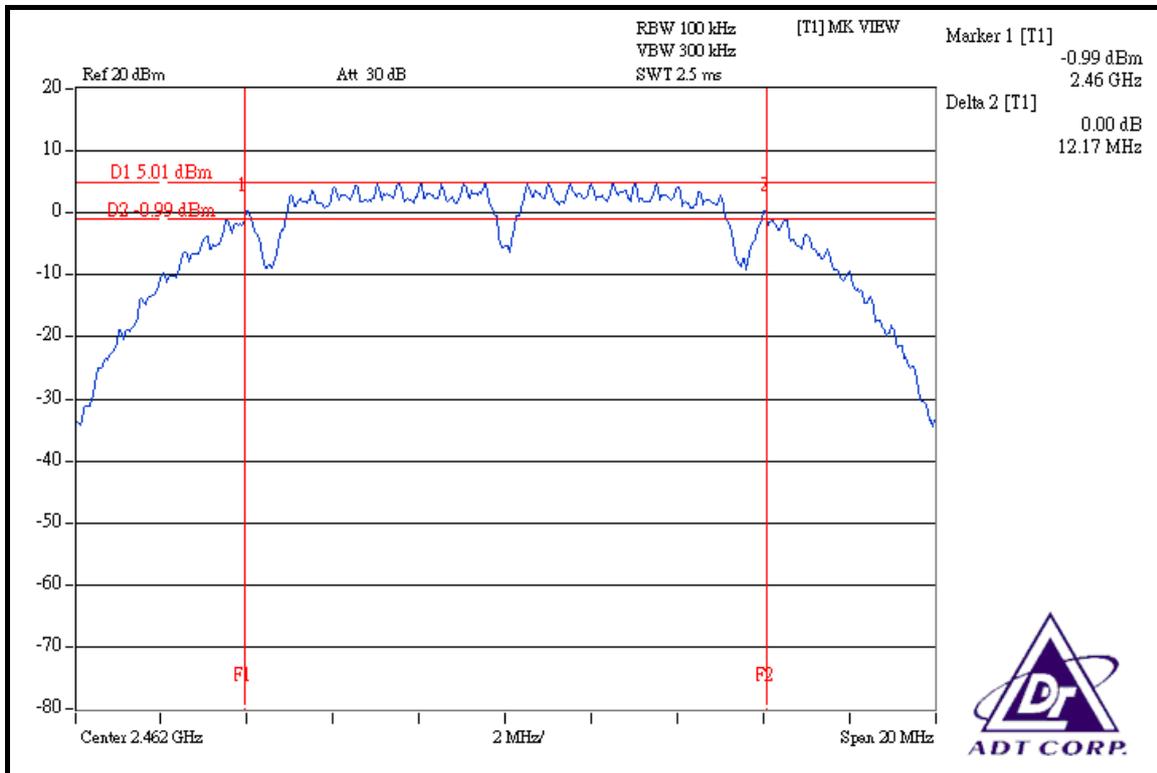
CH 1



CH 6



CH 11



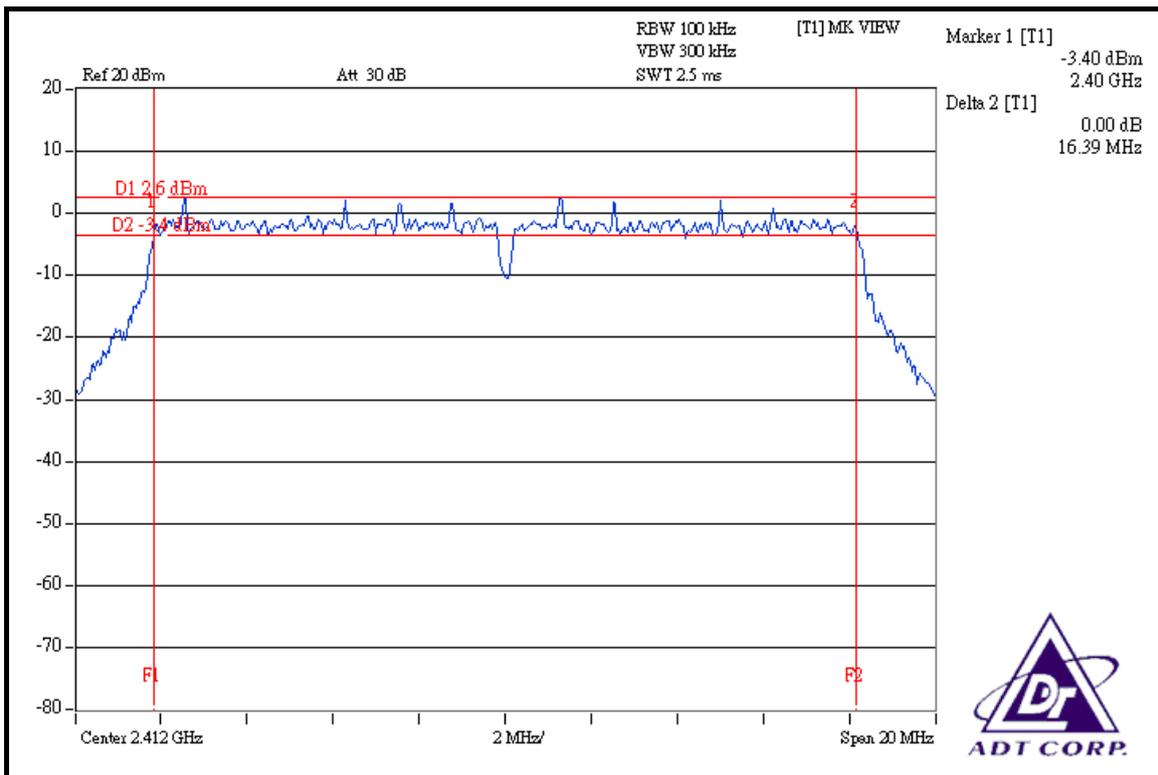


802.11g OFDM MODULATION

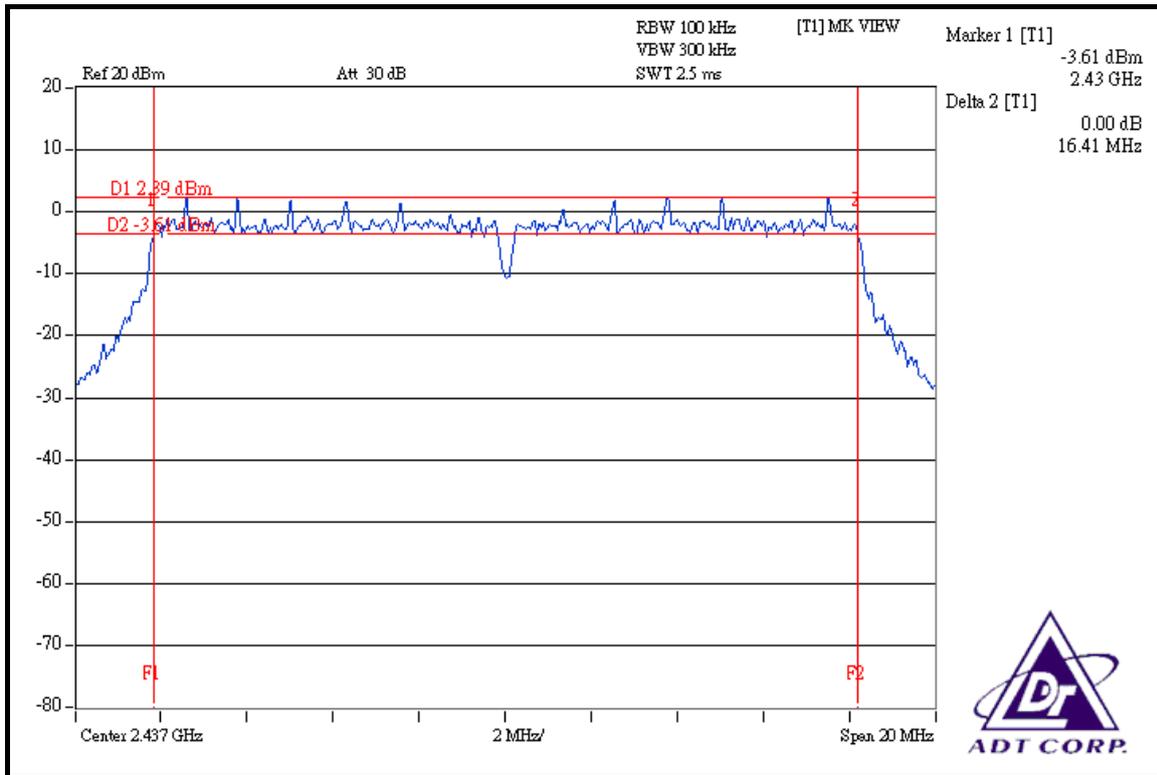
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 65% RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	16.39	0.5	PASS
6	2437	16.41	0.5	PASS
11	2462	16.43	0.5	PASS

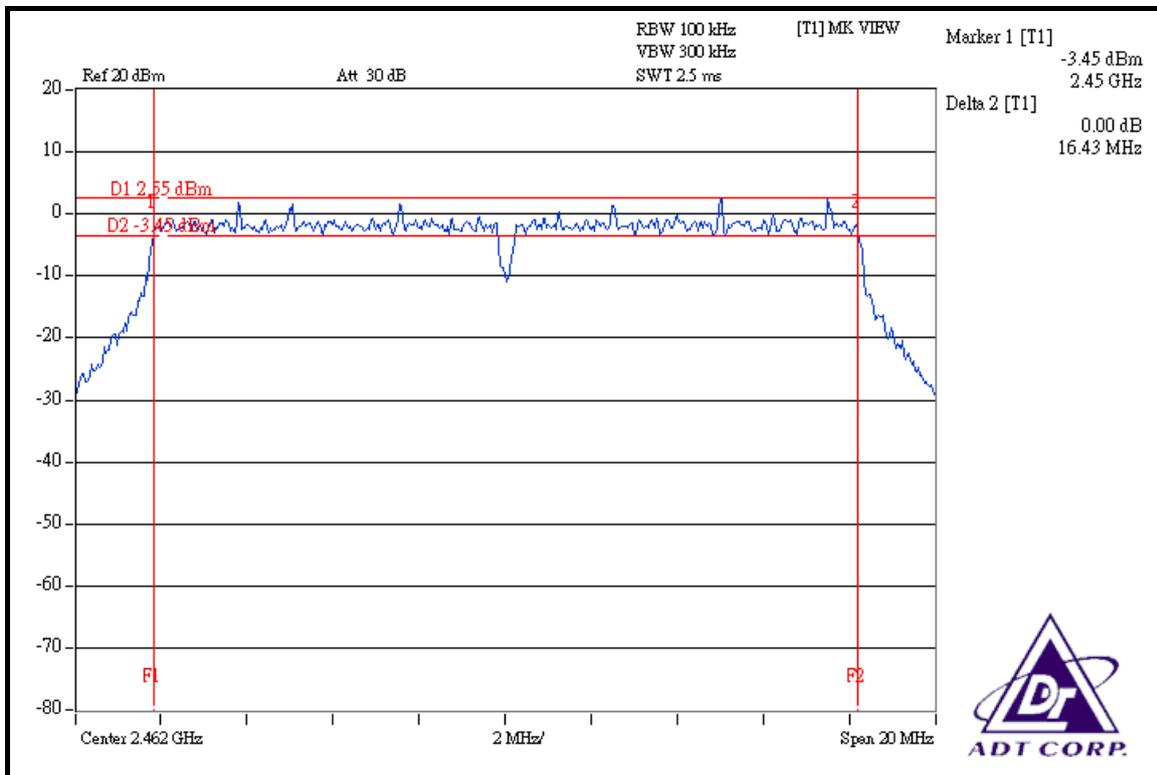
CH 1



CH 6



CH 11



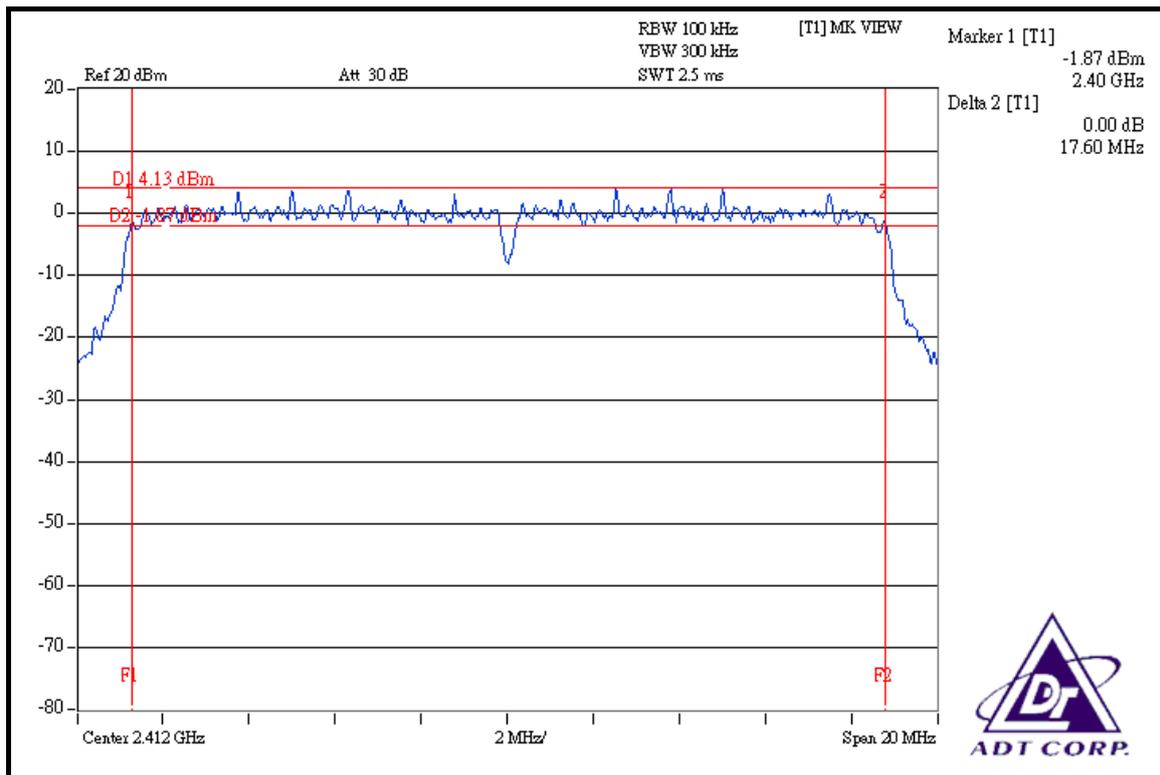


DRAFT 802.11n (20MHz) OFDM MODULATION

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
1	2412	17.60	0.5	PASS
6	2437	17.65	0.5	PASS
11	2462	17.62	0.5	PASS

CH 1



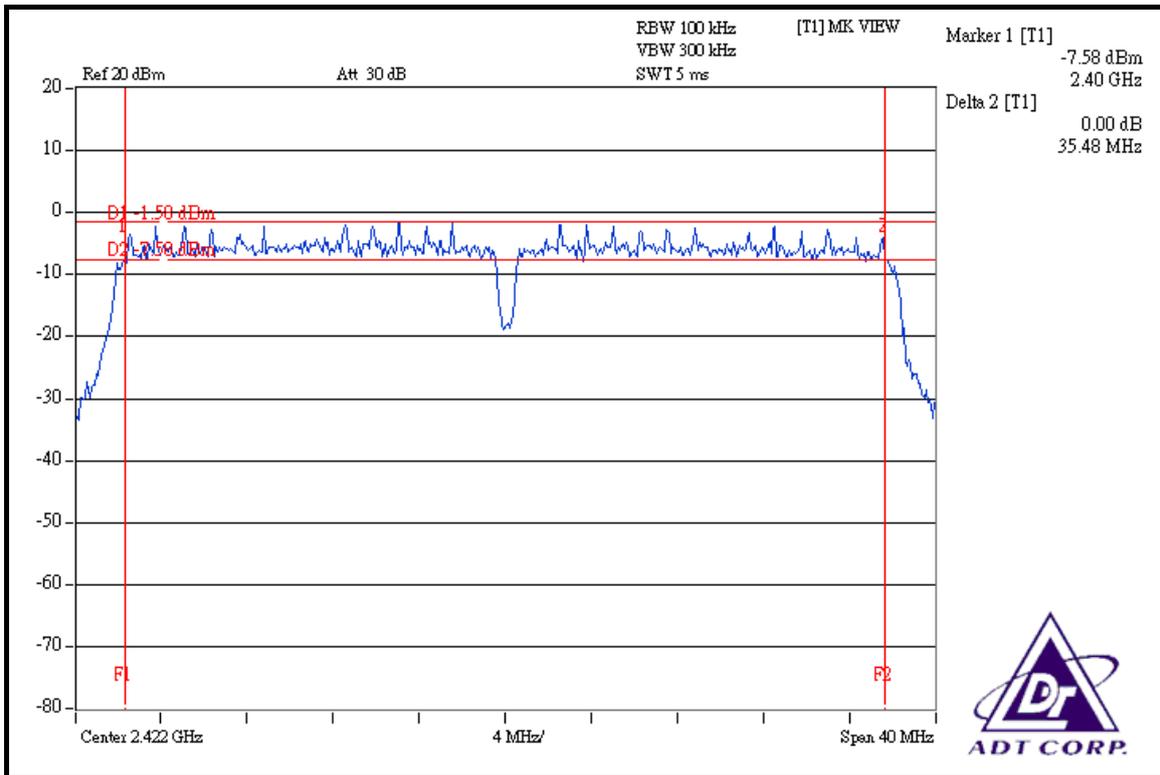


DRAFT 802.11n (40MHz) OFDM MODULATION

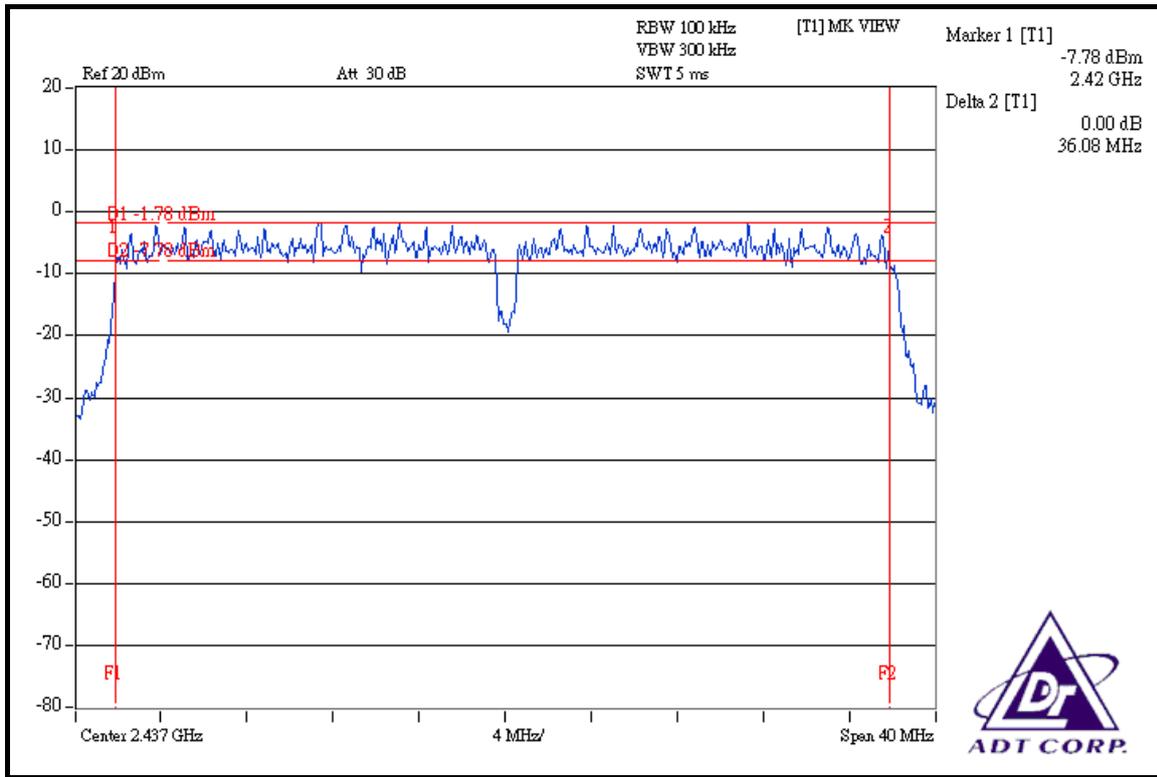
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 65% RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2422	35.48	0.5	PASS
4	2437	36.08	0.5	PASS
7	2452	36.34	0.5	PASS

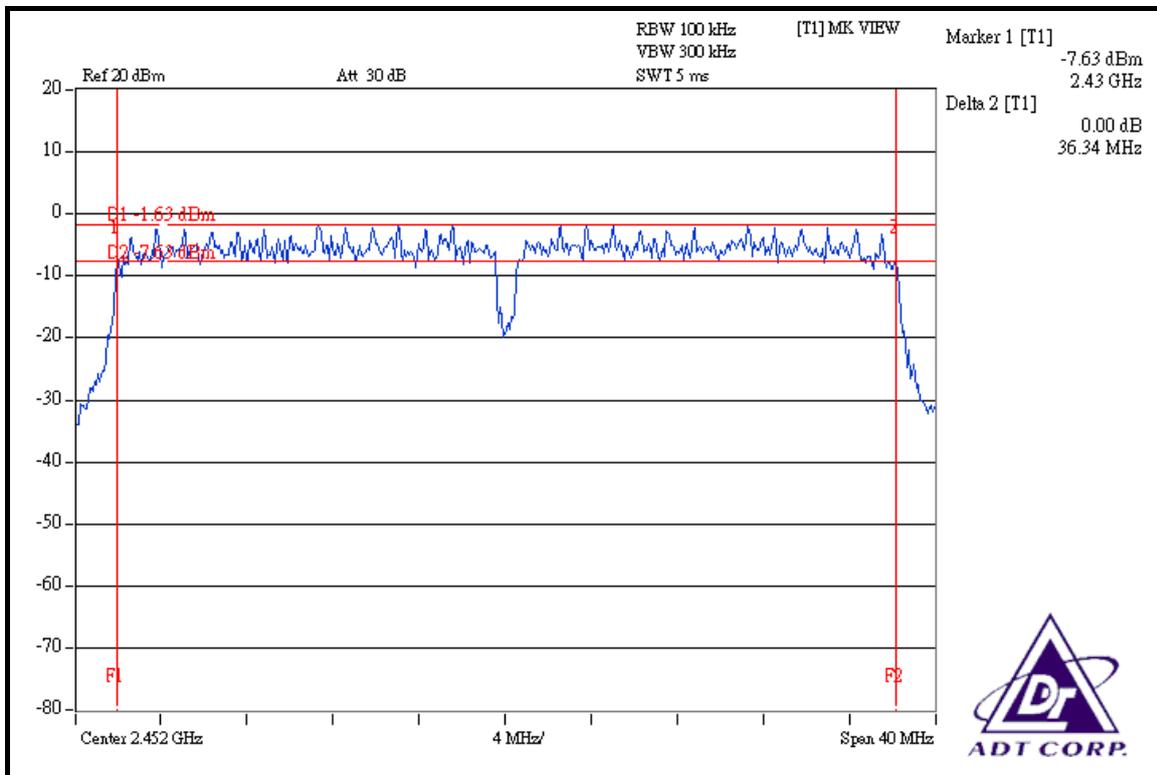
CH 1



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	FSP40	100040	Jun. 28, 2008
AGILENT SYNTHESIZED SIGNAL GENERATOR	E8257C	MY43320668	Dec. 25, 2008
DIGITAL RT OSCILLOSCOPE	TDS1012	C037299	Nov. 21, 2008
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

- a. A detector was used on the output port of the EUT. An oscilloscope was used to read the response of the detector.
- b. Replaced the EUT by the signal generator. The center frequency of the S.G was adjusted to the center frequency of the measured channel.
- c. 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

INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 65% RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
1	2412	81.85	19.13	30	PASS
6	2437	81.47	19.11	30	PASS
11	2462	80.54	19.06	30	PASS

802.11g OFDM MODULATION

INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 65% RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
1	2412	50.70	17.05	30	PASS
6	2437	50.23	17.01	30	PASS
11	2462	50.58	17.04	30	PASS



DRAFT 802.11n (20MHz) OFDM MODULATION

INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 65% RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
1	2412	80.72	19.07	30	PASS
6	2437	80.17	19.04	30	PASS
11	2462	79.98	19.03	30	PASS

DRAFT 802.11n (40MHz) OFDM MODULATION

INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 65% RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
1	2422	51.05	17.08	30	PASS
4	2437	51.05	17.08	30	PASS
7	2452	50.82	17.06	30	PASS



4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSP40	100040	Jun. 28, 2008

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

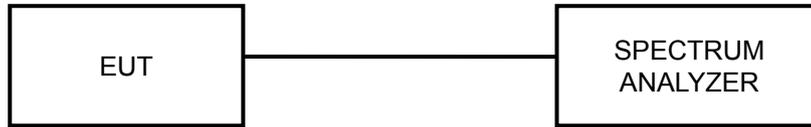
The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time = span/3kHz. The power spectral density was measured and recorded.

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

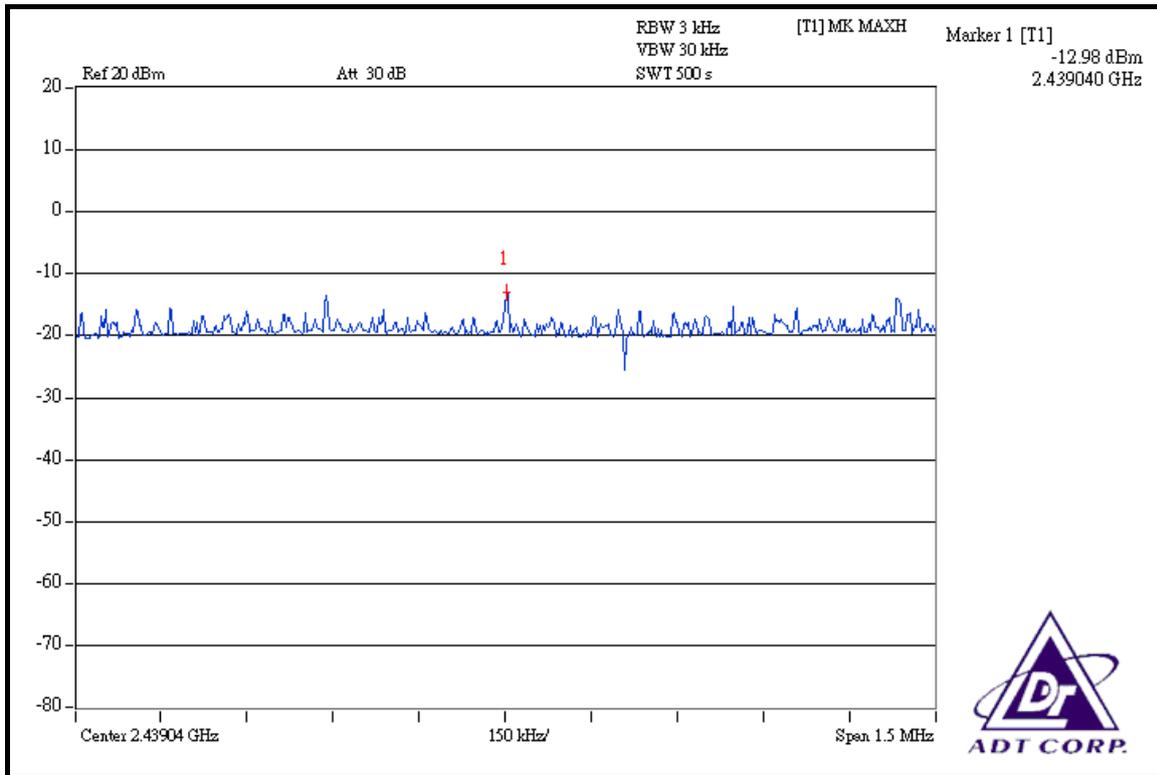
4.5.5 TEST SETUP



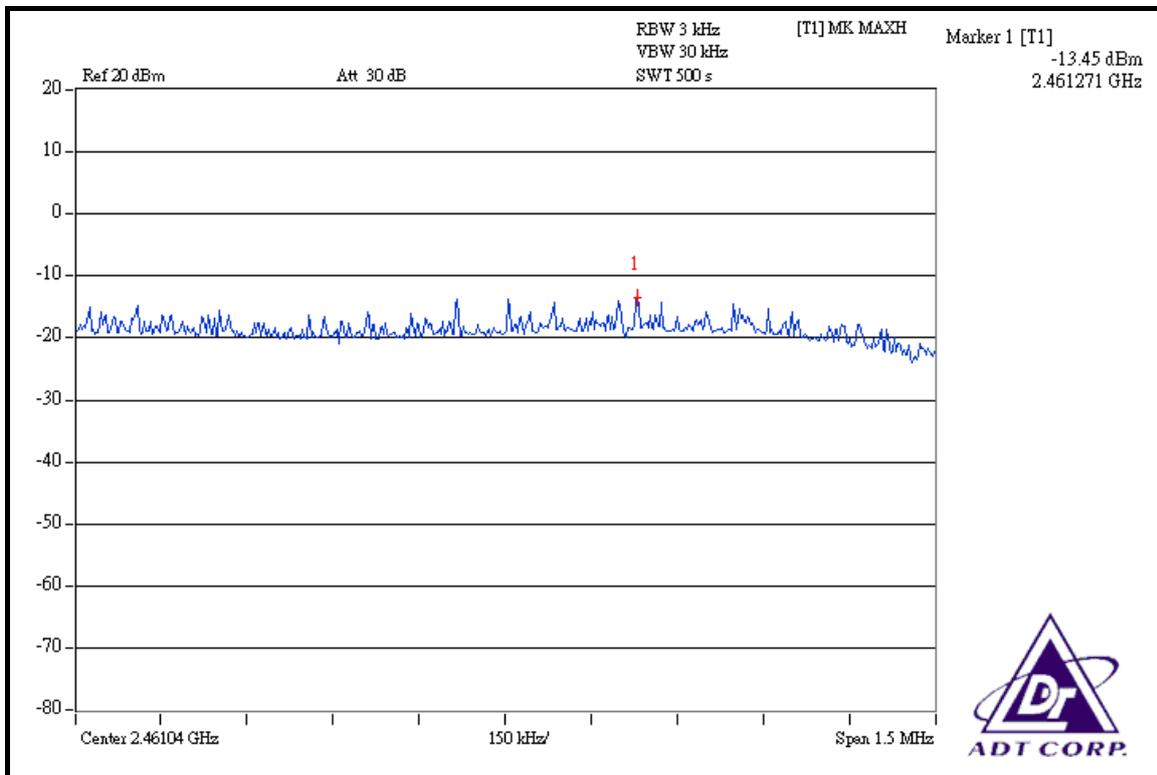
4.5.6 EUT OPERATING CONDITION

Same as Item 4.3.6

CH 6



CH 11



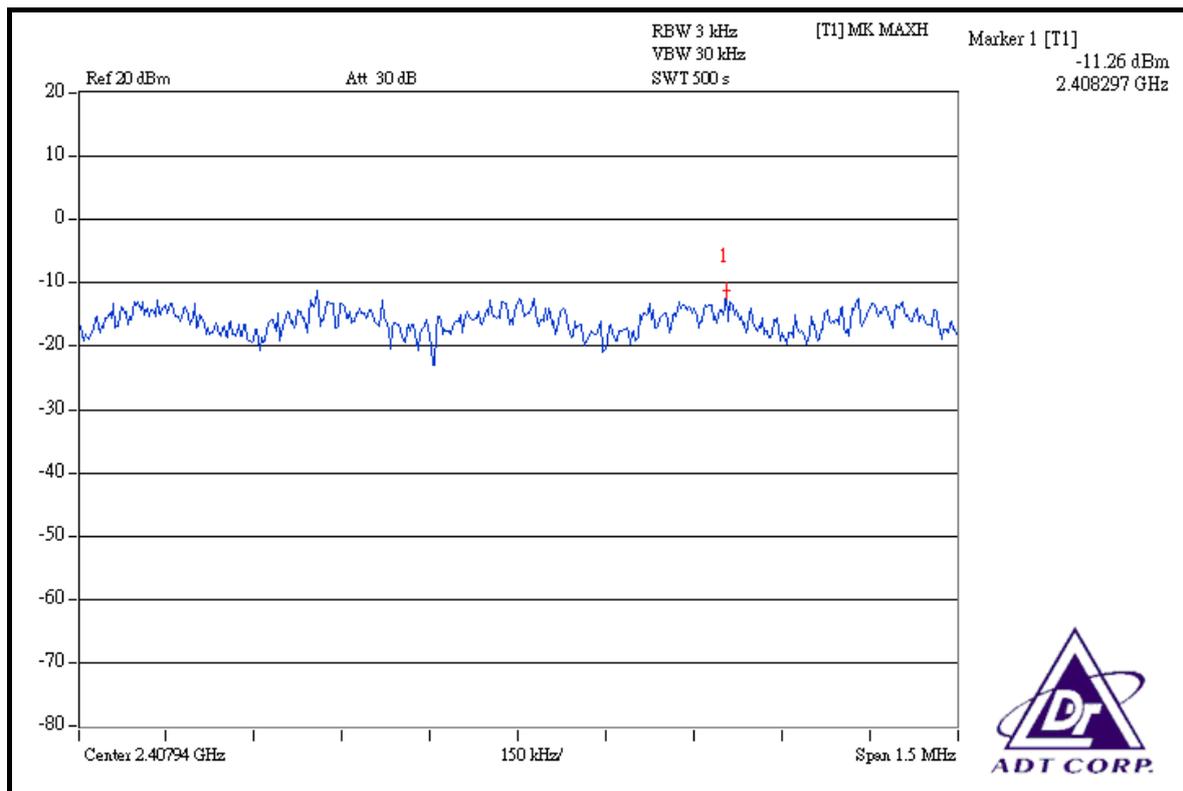


DRAFT 802.11n (20MHz) OFDM MODULATION

INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 65% RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS / FAIL
1	2412	-11.26	8	PASS
6	2437	-11.17	8	PASS
11	2462	-11.31	8	PASS

CH 1



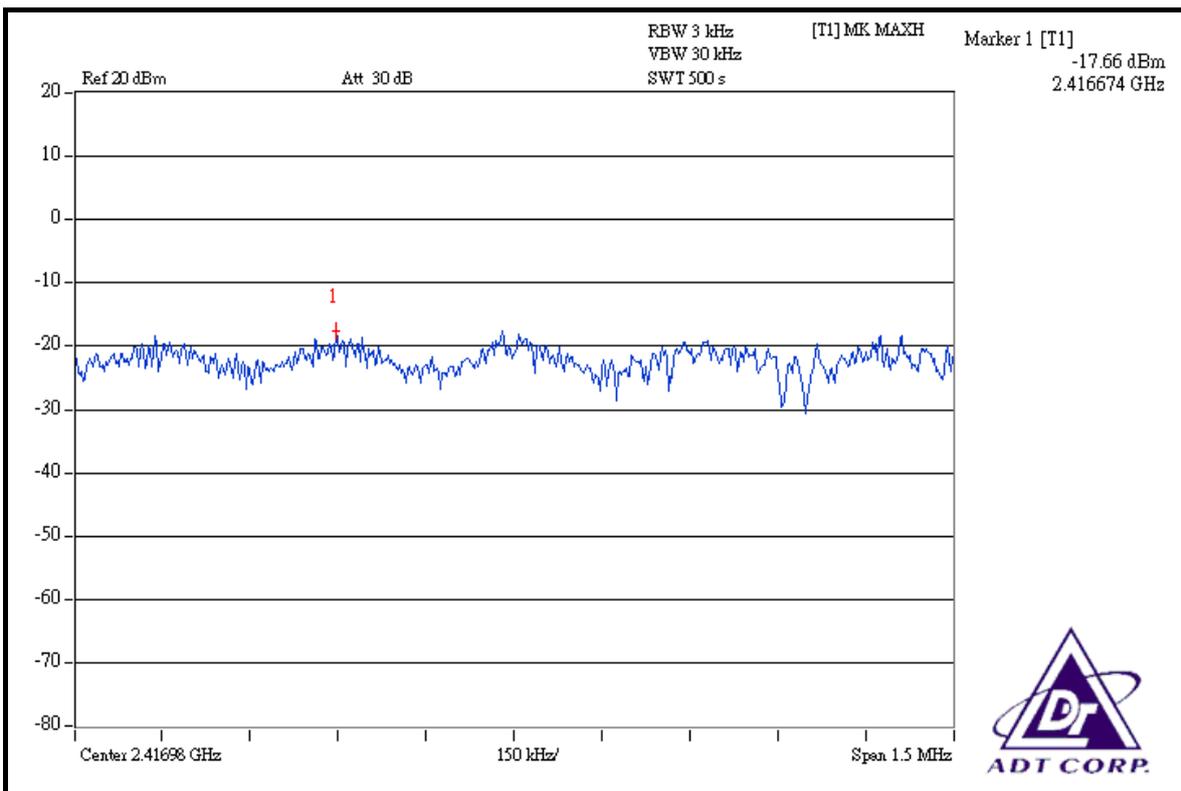


DRAFT 802.11n (40MHz) OFDM MODULATION

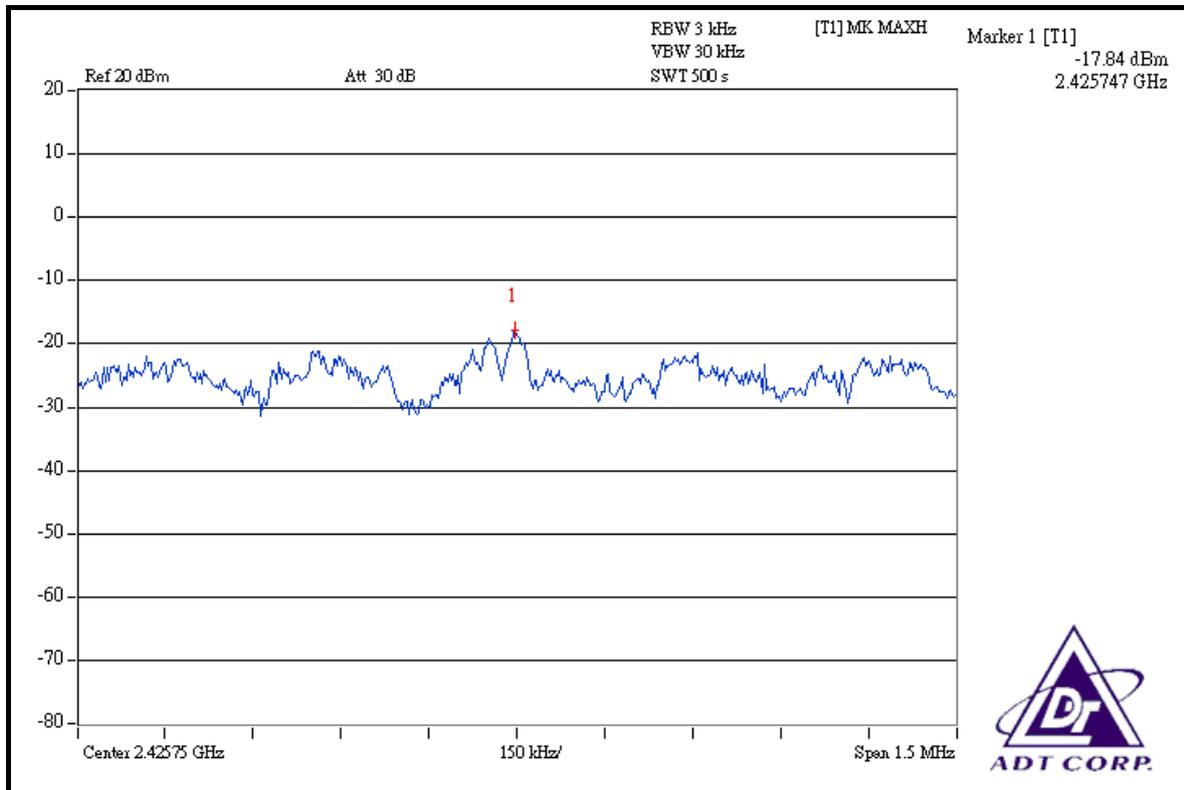
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 65% RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS / FAIL
1	2422	-17.66	8	PASS
4	2437	-17.84	8	PASS
7	2452	-17.72	8	PASS

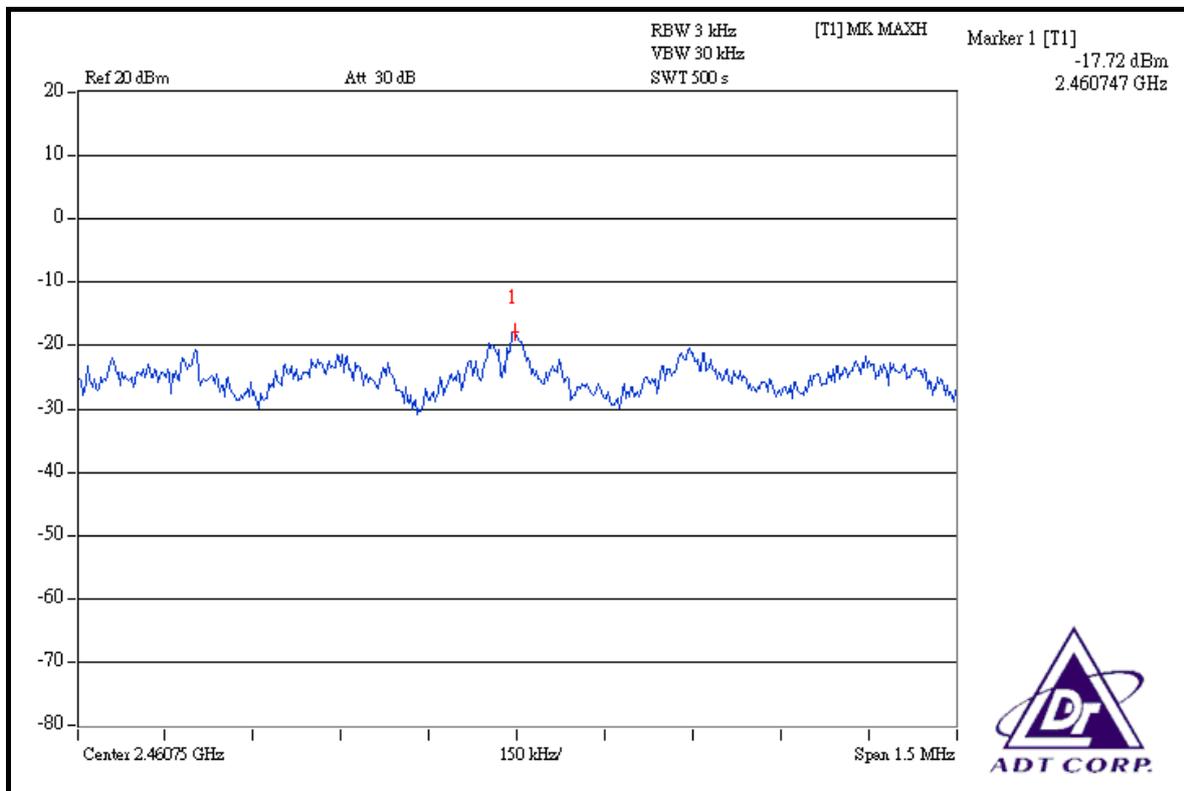
CH 1



CH 4



CH 7





4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF BAND EDGES MEASUREMENT

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

4.6.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSP40	100040	Jun. 28, 2008

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

4.6.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 10Hz bandwidth from band edge. The band edges was measured and recorded.

The spectrum plots (Peak RBW = 100kHz, VBW = 300kHz; Average RBW = 1MHz, VBW = 10Hz) are attached on the following pages.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation

4.6.5 EUT OPERATING CONDITION

Same as Item 4.3.6

4.6.6 TEST RESULTS

The spectrum plots are attached on the following 24 images. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement in part 15.247(d).

802.11b DSSS MODULATION

Test Mode: A1

NOTE 1:

The band edge emission plot on the next second page shows 50.40dBc between carrier maximum power and local maximum emission in restrict band (2.33700GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 106.65dBuV/m (Peak), so the maximum field strength in restrict band is $106.65 - 50.40 = 56.25$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next second page shows 58.12dBc between carrier maximum power and local maximum emission in restrict band (2.34720GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 101.92dBuV/m (Average), so the maximum field strength in restrict band is $101.92 - 58.12 = 43.80$ dBuV/m which is under 54dBuV/m limit.

NOTE 2:

The band edge emission plot on the next third page shows 52.49dBc between carrier maximum power and local maximum emission in restrict band (2.49340GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 107.12dBuV/m (Peak), so the maximum field strength in restrict band is $107.12 - 52.49 = 54.63$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next fourth page shows 58.11dBc between carrier maximum power and local maximum emission in restrict band (2.48350GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 102.73dBuV/m (Average), so the maximum field strength in restrict band is $102.73 - 58.11 = 44.62$ dBuV/m which is under 54dBuV/m limit.

Test Mode: B1

NOTE 1:

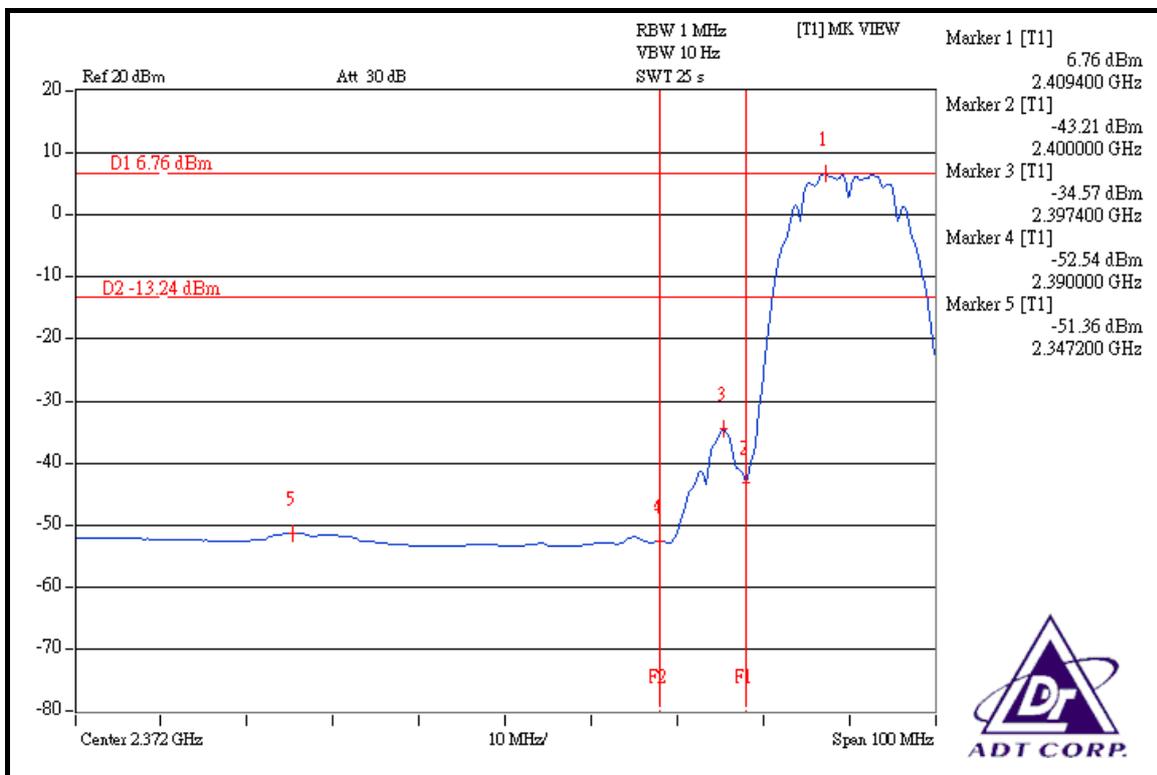
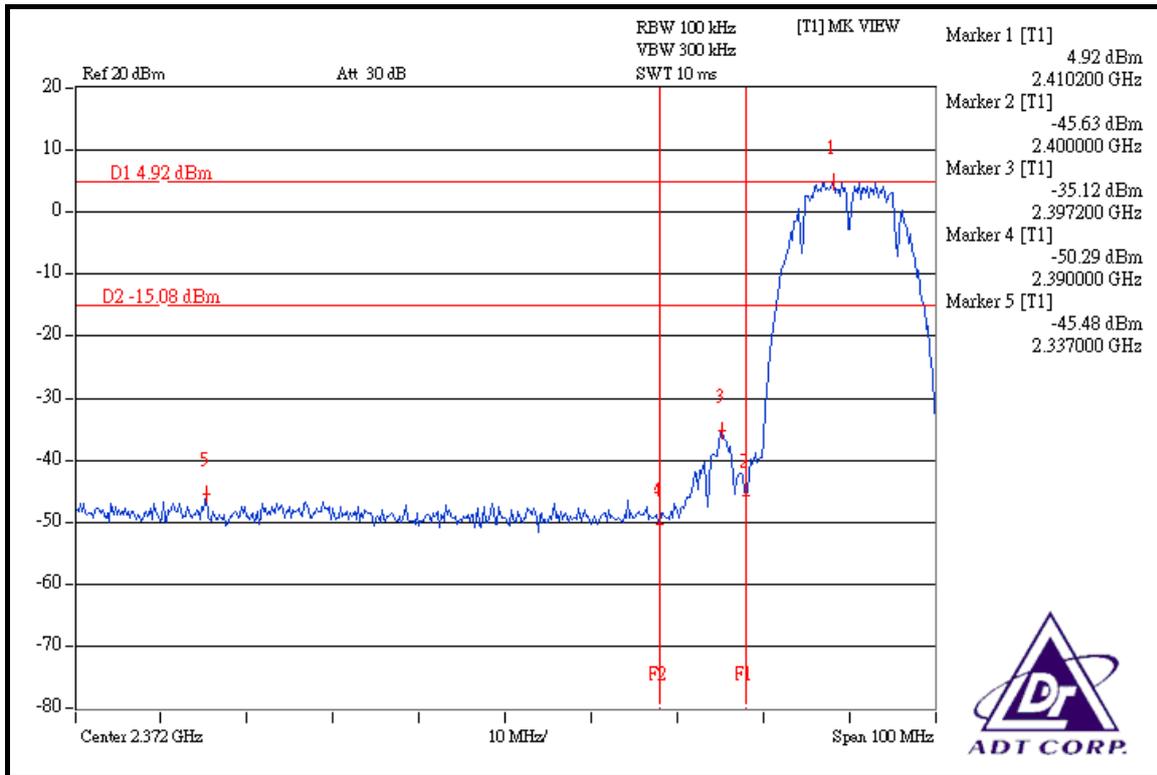
The band edge emission plot on the next page shows 50.40dBc between carrier maximum power and local maximum emission in restrict band (2.33700GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 108.22dBuV/m (Peak), so the maximum field strength in restrict band is $108.22 - 50.40 = 57.82$ dBuV/m which is under 74dBuV/m limit.

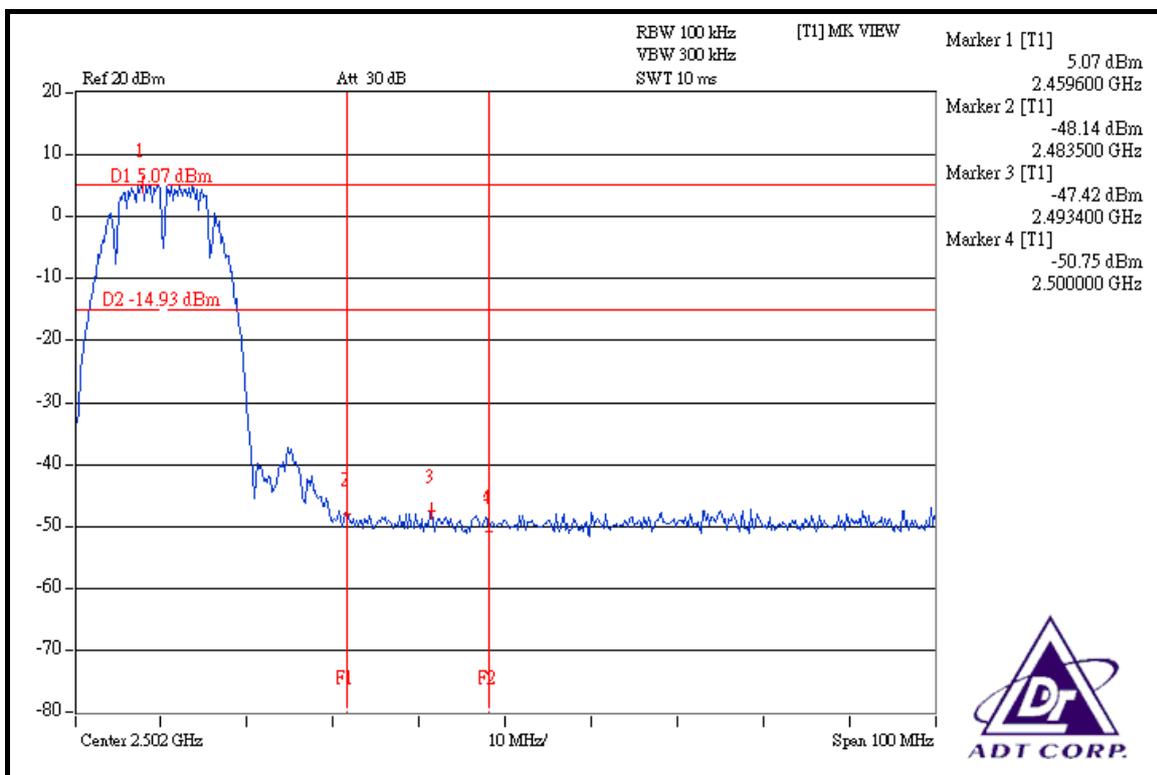
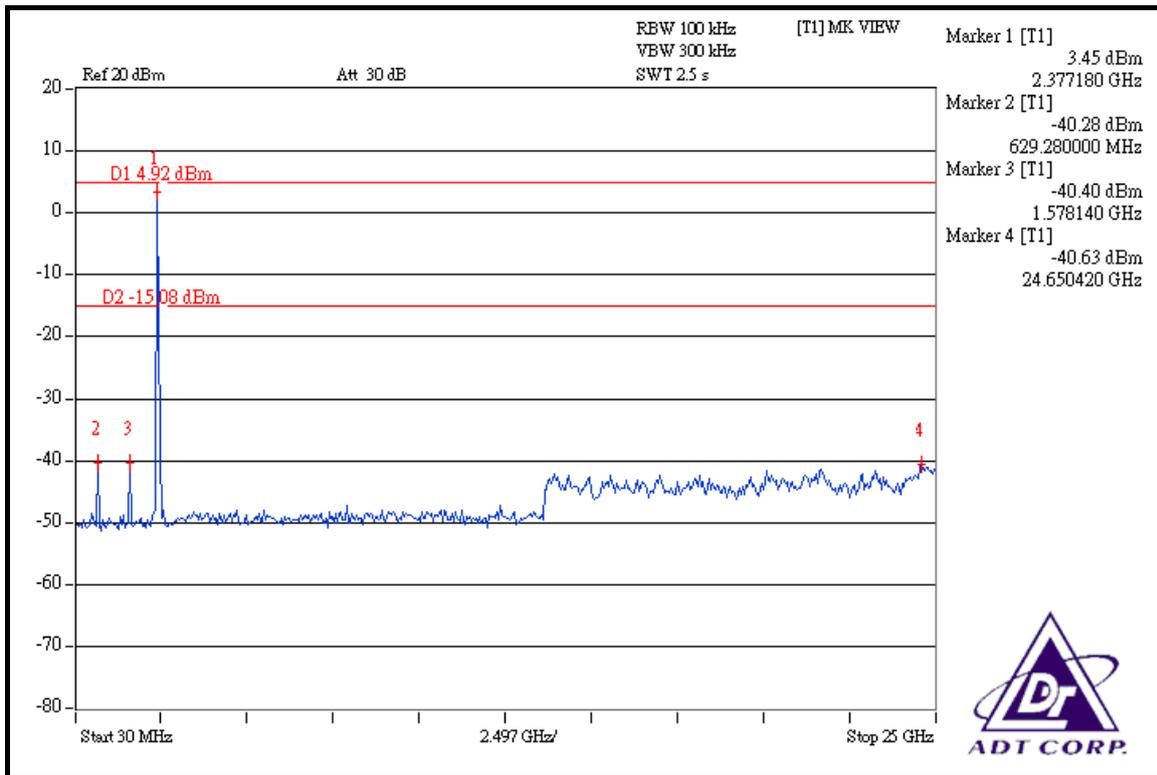
The band edge emission plot on the next page shows 58.12dBc between carrier maximum power and local maximum emission in restrict band (2.34720GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 103.91dBuV/m (Average), so the maximum field strength in restrict band is $103.91 - 58.12 = 45.79$ dBuV/m which is under 54dBuV/m limit.

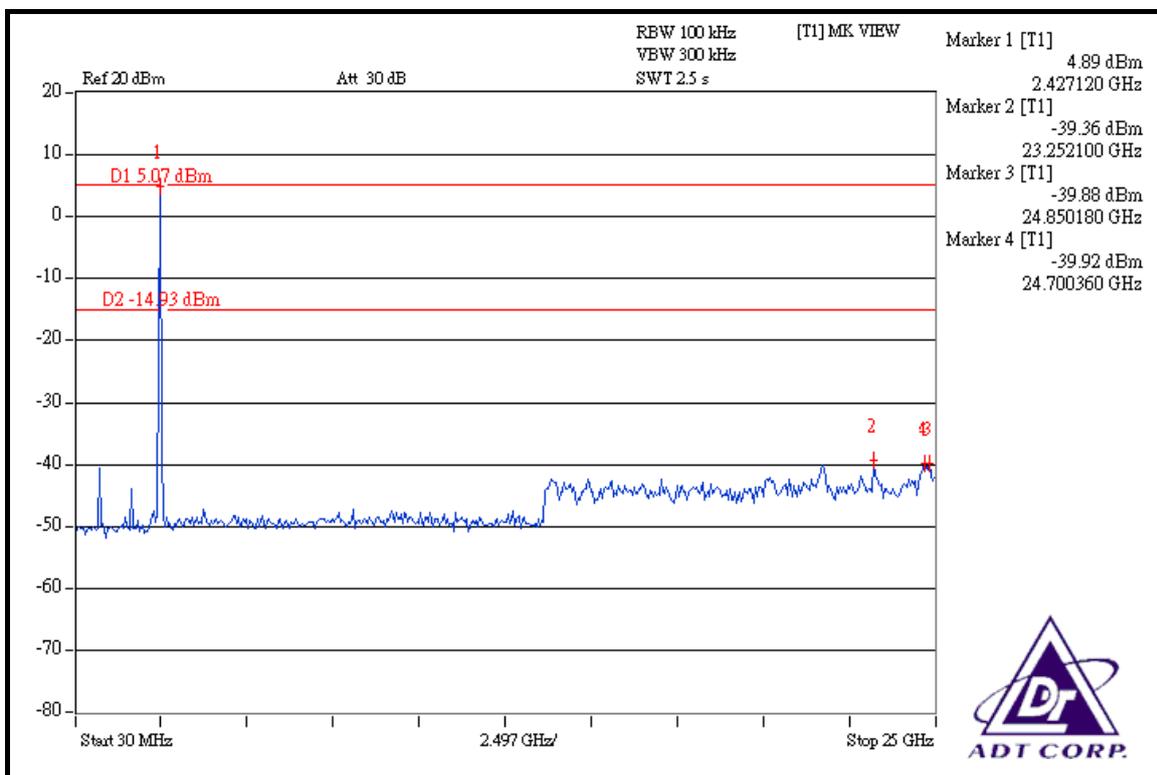
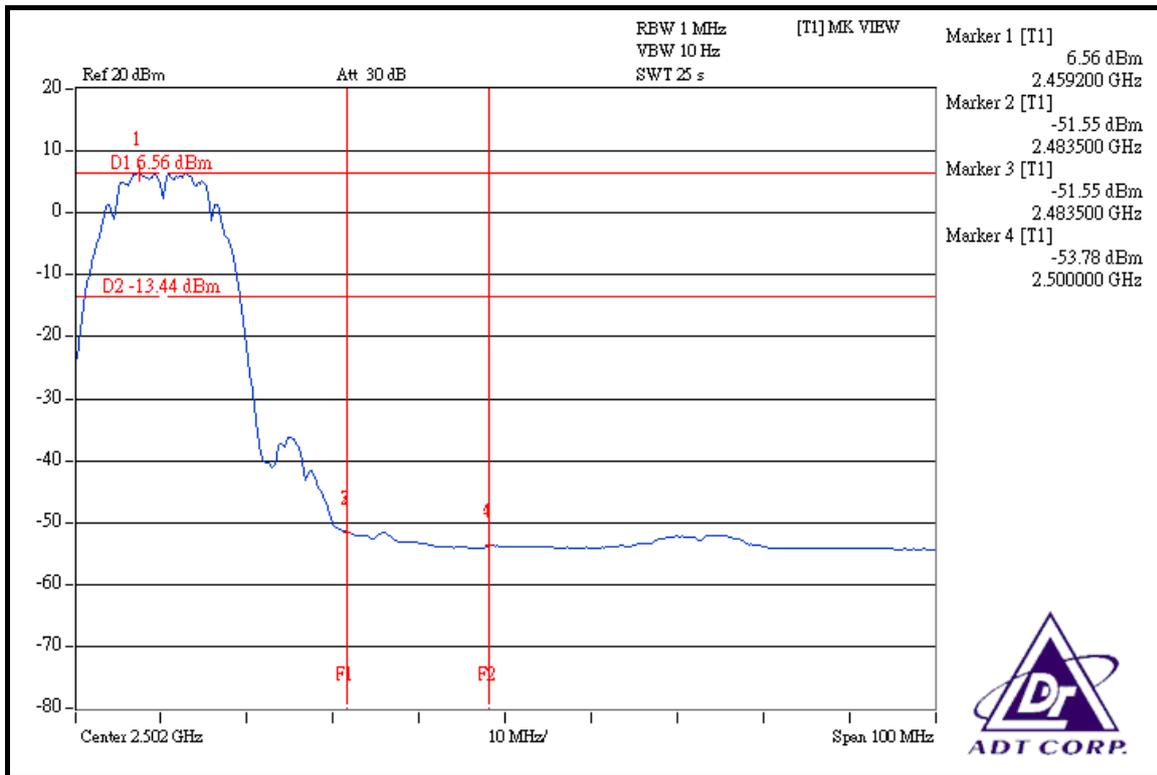
NOTE 2:

The band edge emission plot on the next second page shows 52.49dBc between carrier maximum power and local maximum emission in restrict band (2.49340GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 108.49dBuV/m (Peak), so the maximum field strength in restrict band is $108.49 - 52.49 = 56.00$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next third page shows 58.11dBc between carrier maximum power and local maximum emission in restrict band (2.48350GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 104.12dBuV/m (Average), so the maximum field strength in restrict band is $104.12 - 58.11 = 46.01$ dBuV/m which is under 54dBuV/m limit.







802.11g OFDM MODULATION

Test Mode: A1

NOTE 1:

The band edge emission plot on the next second page shows 47.47dBc between carrier maximum power and local maximum emission in restrict band (2.34640GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 106.14dBuV/m (Peak), so the maximum field strength in restrict band is $106.14 - 47.47 = 58.67$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next second page shows 44.96dBc between carrier maximum power and local maximum emission in restrict band (2.35960GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 96.28dBuV/m (Average), so the maximum field strength in restrict band is $96.28 - 44.96 = 51.32$ dBuV/m which is under 54dBuV/m limit.

NOTE 2:

The band edge emission plot on the next third page shows 49.42dBc between carrier maximum power and local maximum emission in restrict band (2.49680GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 106.09dBuV/m (Peak), so the maximum field strength in restrict band is $106.09 - 49.42 = 56.67$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next fourth page shows 46.13dBc between carrier maximum power and local maximum emission in restrict band (2.48350GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 96.43dBuV/m (Average), so the maximum field strength in restrict band is $96.43 - 46.13 = 50.30$ dBuV/m which is under 54dBuV/m limit.

Test Mode: B1

NOTE 1:

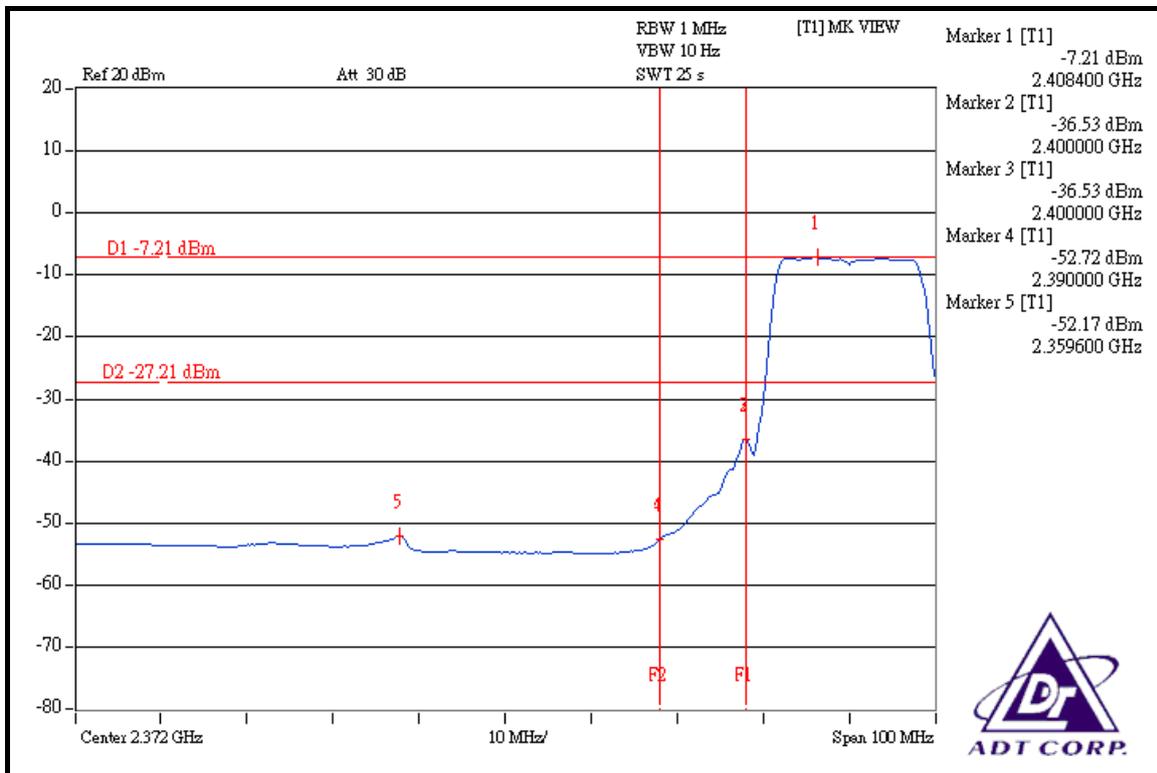
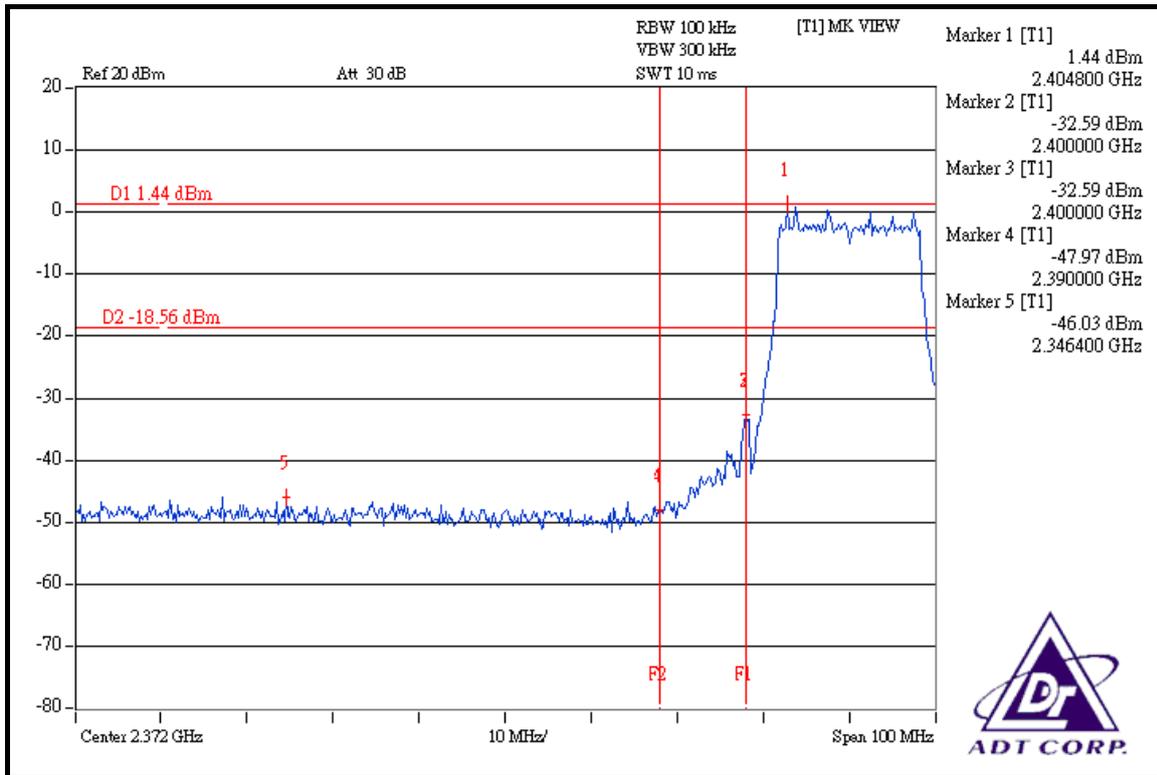
The band edge emission plot on the next page shows 47.47dBc between carrier maximum power and local maximum emission in restrict band (2.34640GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 107.62dBuV/m (Peak), so the maximum field strength in restrict band is $107.62 - 47.47 = 60.15$ dBuV/m which is under 74dBuV/m limit.

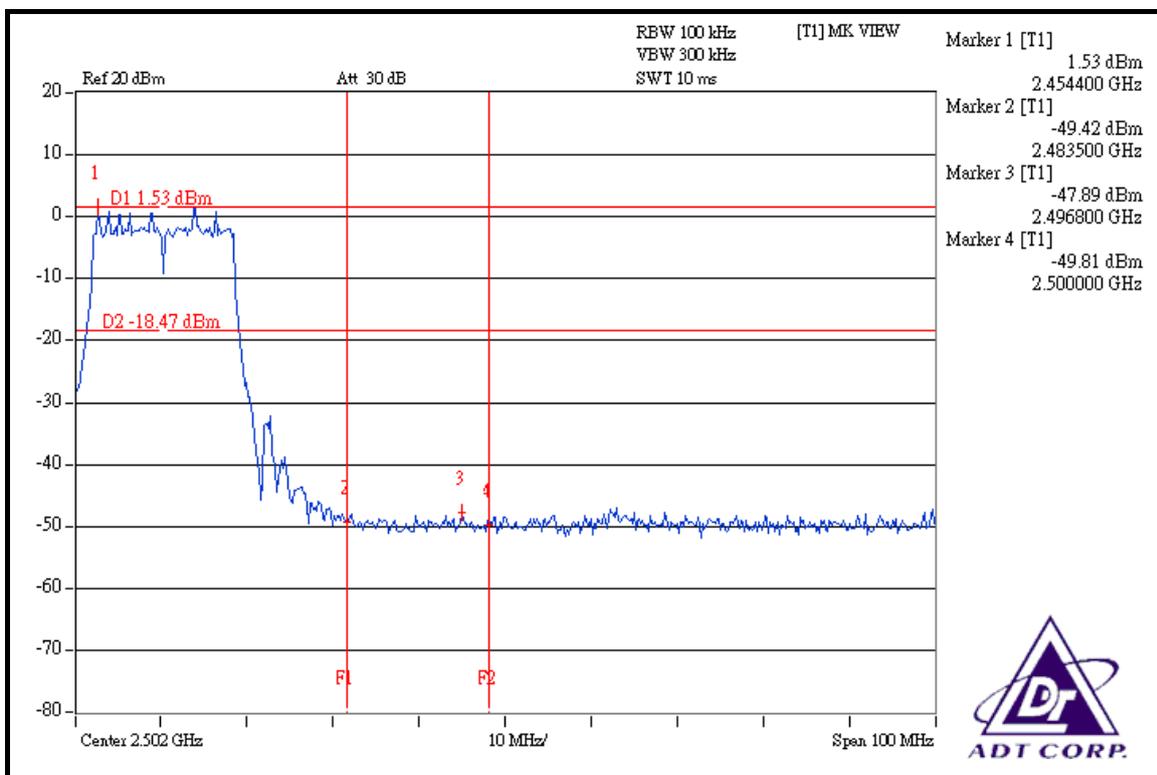
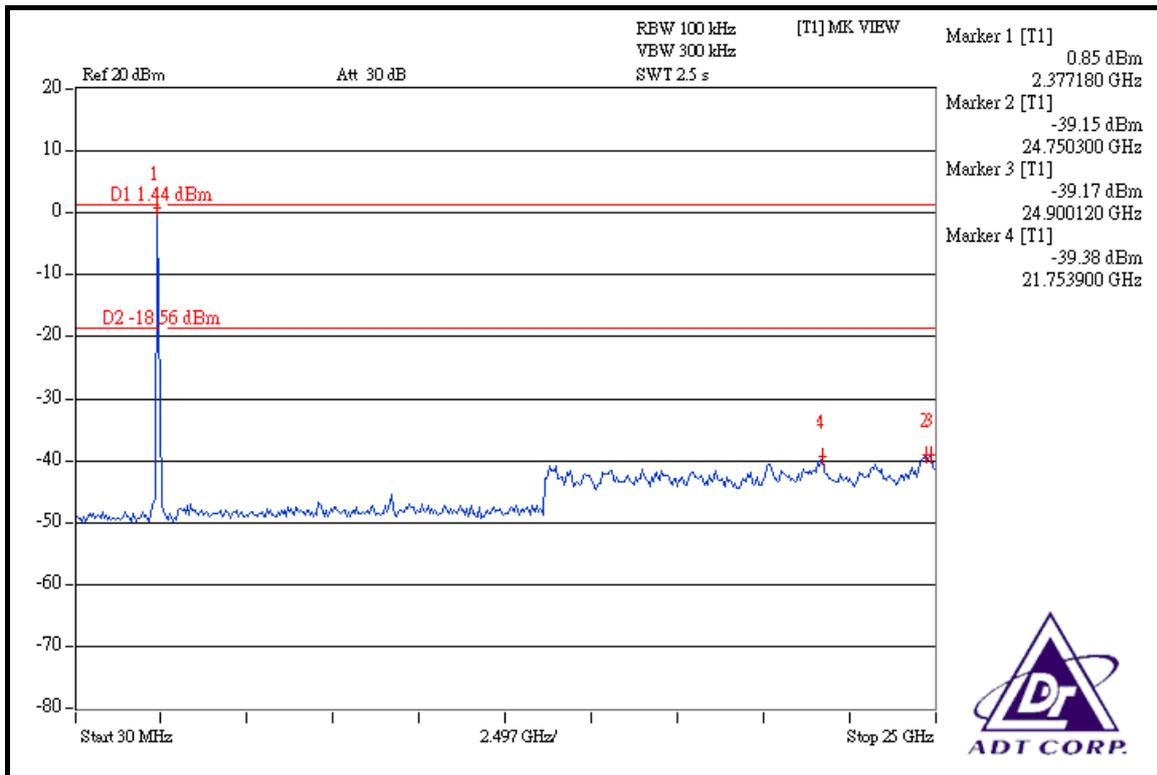
The band edge emission plot on the next page shows 44.96dBc between carrier maximum power and local maximum emission in restrict band (2.35960GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 97.55dBuV/m (Average), so the maximum field strength in restrict band is $97.55 - 44.96 = 52.59$ dBuV/m which is under 54dBuV/m limit.

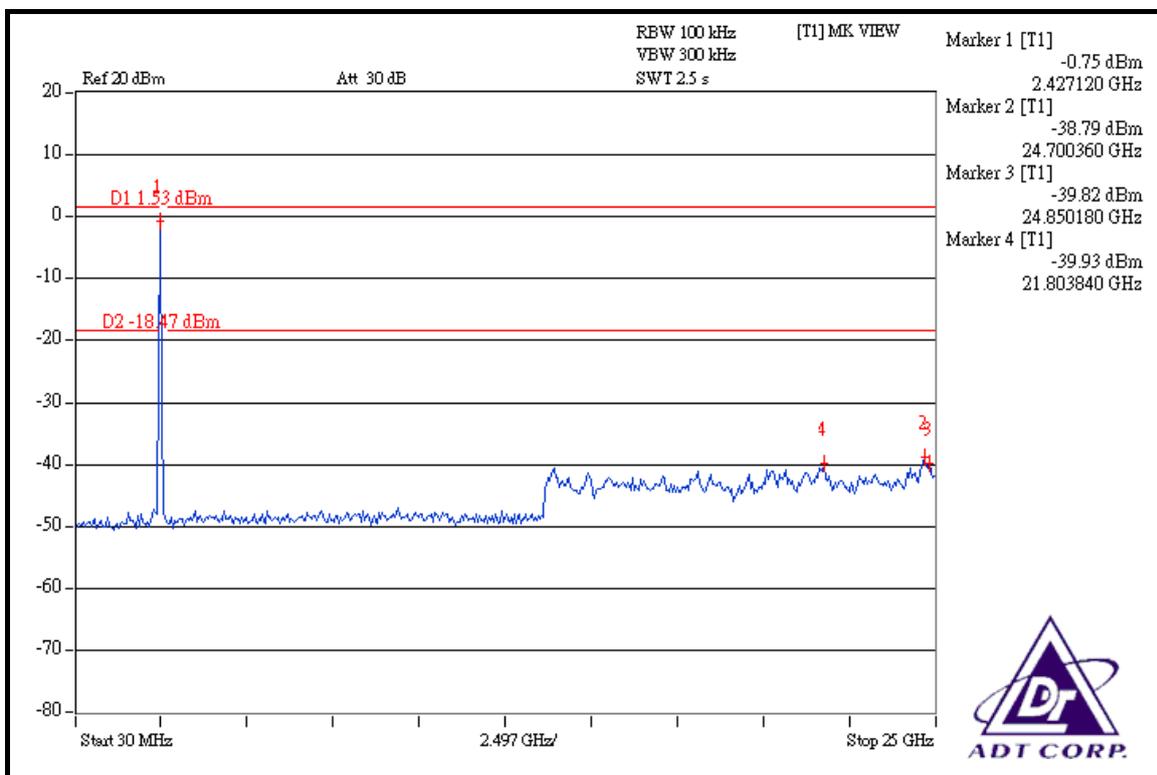
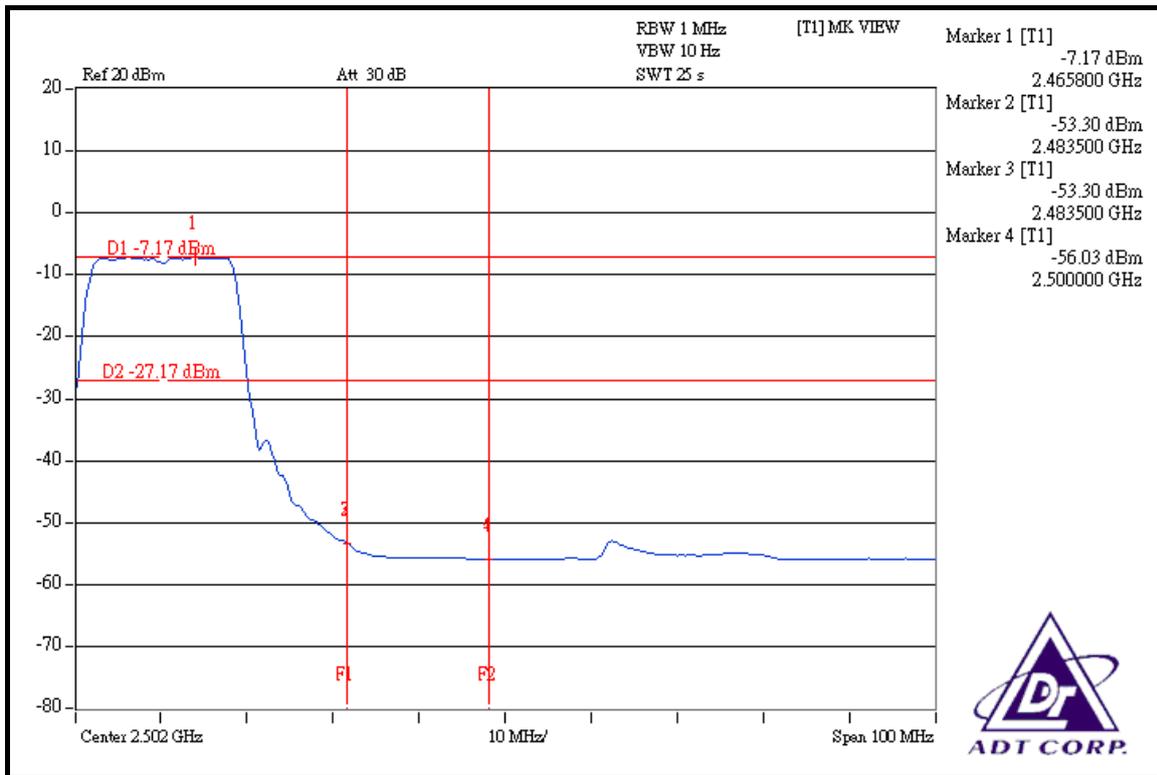
NOTE 2:

The band edge emission plot on the next second page shows 49.42dBc between carrier maximum power and local maximum emission in restrict band (2.49680GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 107.58dBuV/m (Peak), so the maximum field strength in restrict band is $107.58 - 49.42 = 58.16$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next third page shows 46.13dBc between carrier maximum power and local maximum emission in restrict band (2.48350GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 97.42dBuV/m (Average), so the maximum field strength in restrict band is $97.42 - 46.13 = 51.29$ dBuV/m which is under 54dBuV/m limit.







DRAFT 802.11n (20MHz) OFDM MODULATION

Test Mode: A1

NOTE 1:

The band edge emission plot on the next second page shows 45.90dBc between carrier maximum power and local maximum emission in restrict band (2.38720GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 108.20dBuV/m (Peak), so the maximum field strength in restrict band is $108.20 - 45.90 = 62.30$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next second page shows 46.74dBc between carrier maximum power and local maximum emission in restrict band (2.31546GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 98.13dBuV/m (Average), so the maximum field strength in restrict band is $98.13 - 46.74 = 51.39$ dBuV/m which is under 54dBuV/m limit.

NOTE 2:

The band edge emission plot on the next third page shows 47.72dBc between carrier maximum power and local maximum emission in restrict band (2.48580GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 108.49dBuV/m (Peak), so the maximum field strength in restrict band is $108.49 - 47.72 = 60.77$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next fourth page shows 47.37dBc between carrier maximum power and local maximum emission in restrict band (2.48350GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 98.37dBuV/m (Average), so the maximum field strength in restrict band is $98.37 - 47.37 = 51.00$ dBuV/m which is under 54dBuV/m limit.

Test Mode: B1

NOTE 1:

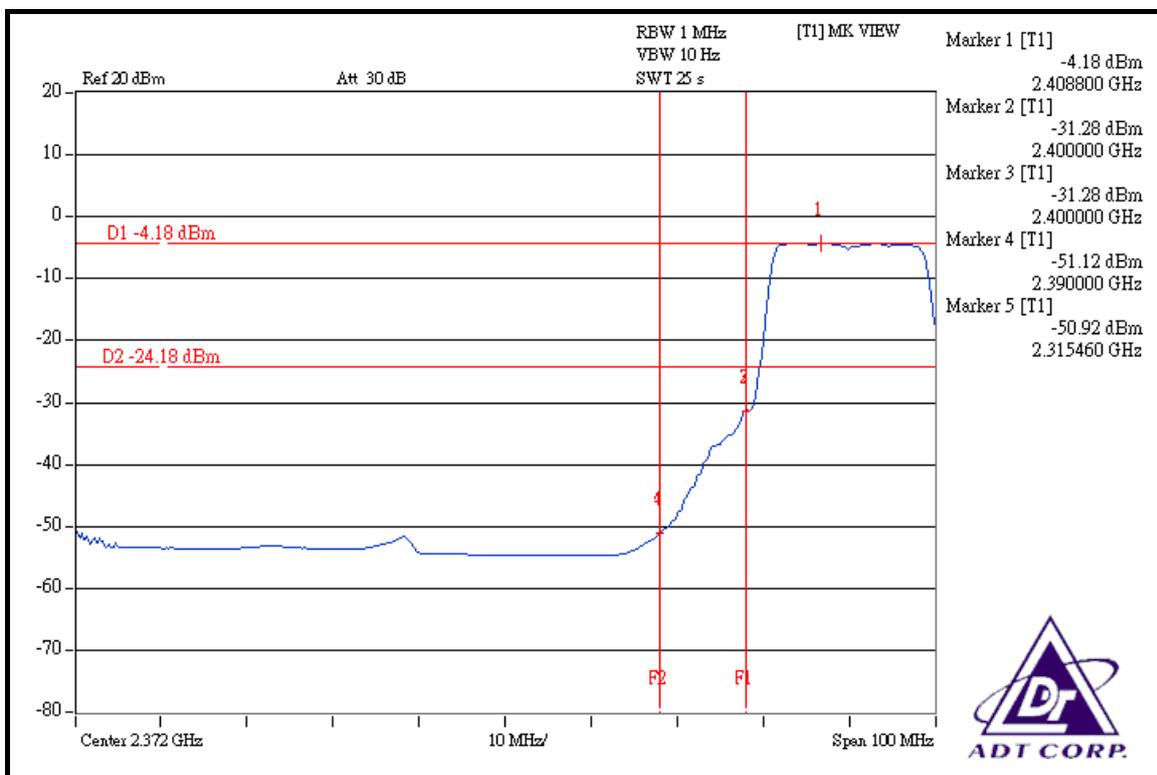
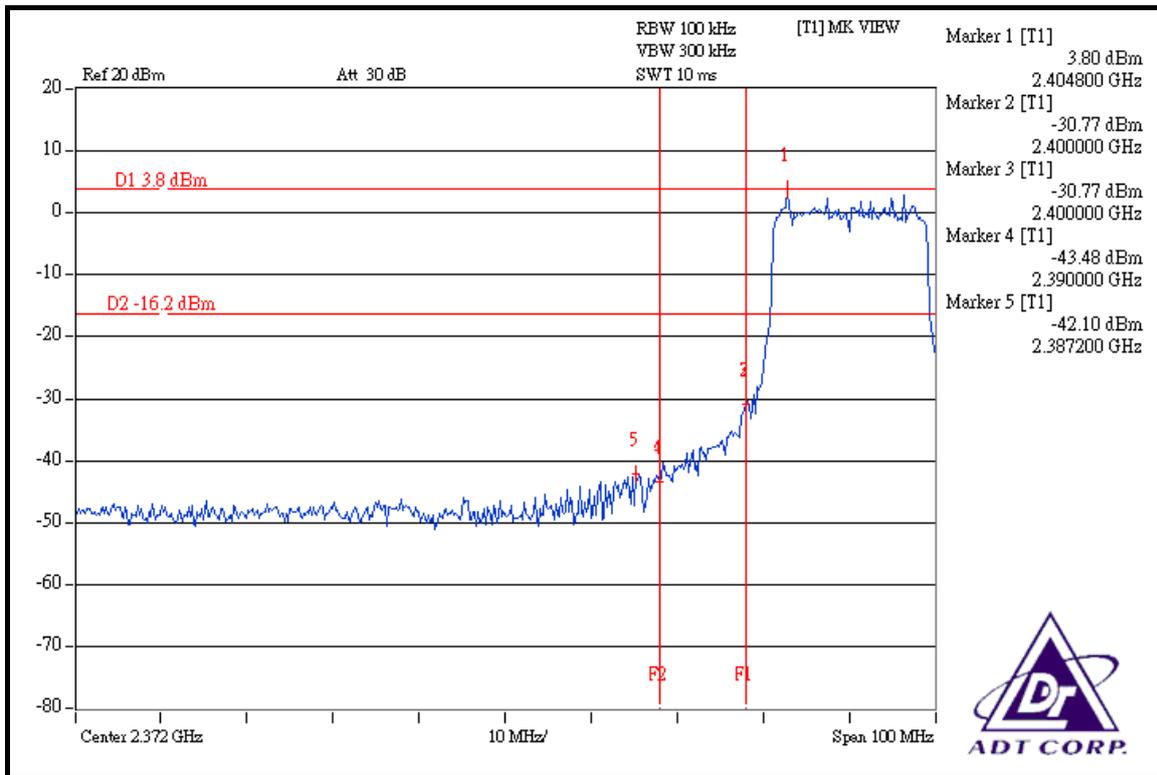
The band edge emission plot on the next page shows 45.90dBc between carrier maximum power and local maximum emission in restrict band (2.38720GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 109.77dBuV/m (Peak), so the maximum field strength in restrict band is $109.77 - 45.90 = 63.87\text{dBuV/m}$ which is under 74dBuV/m limit.

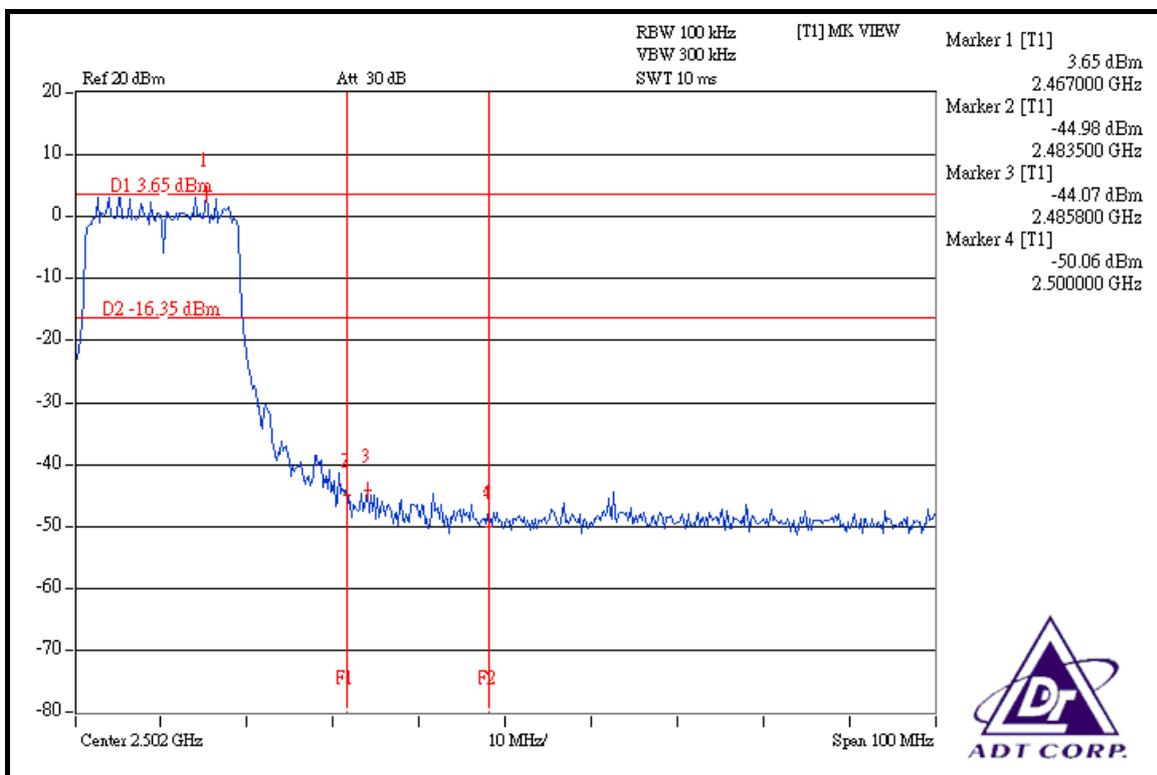
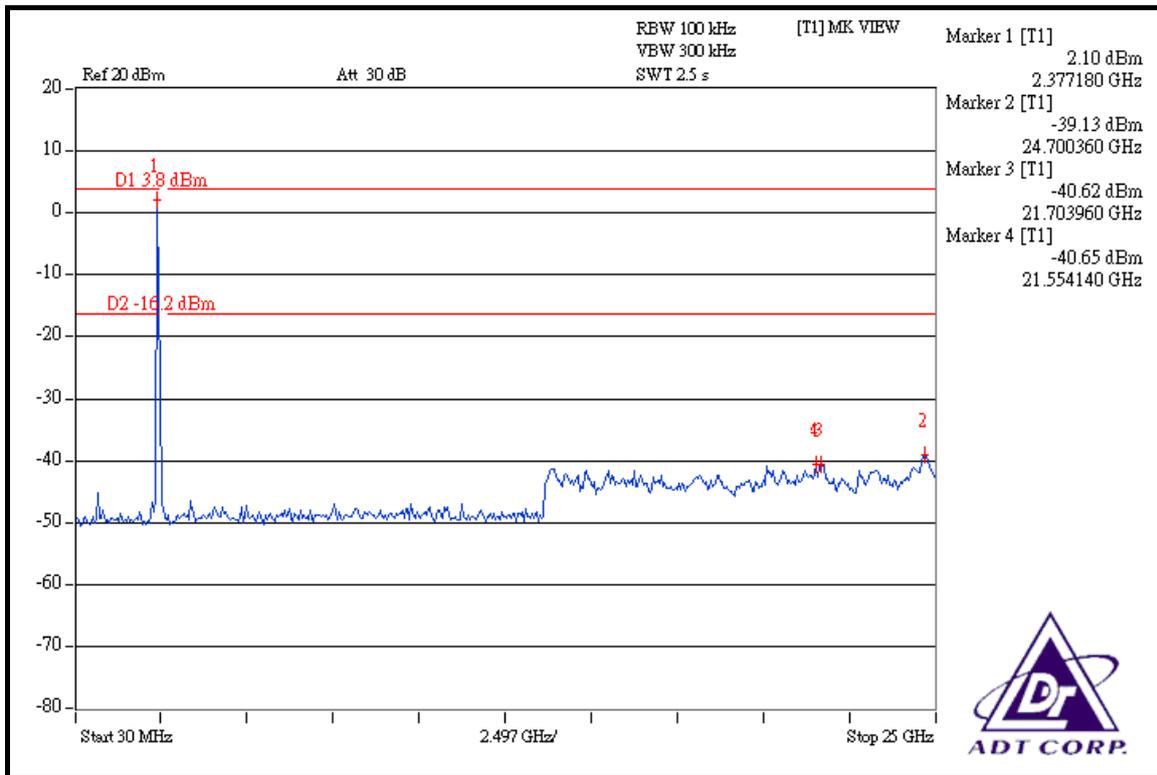
The band edge emission plot on the next page shows 46.74dBc between carrier maximum power and local maximum emission in restrict band (2.31546GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 99.60dBuV/m (Average), so the maximum field strength in restrict band is $99.60 - 46.74 = 52.86\text{dBuV/m}$ which is under 54dBuV/m limit.

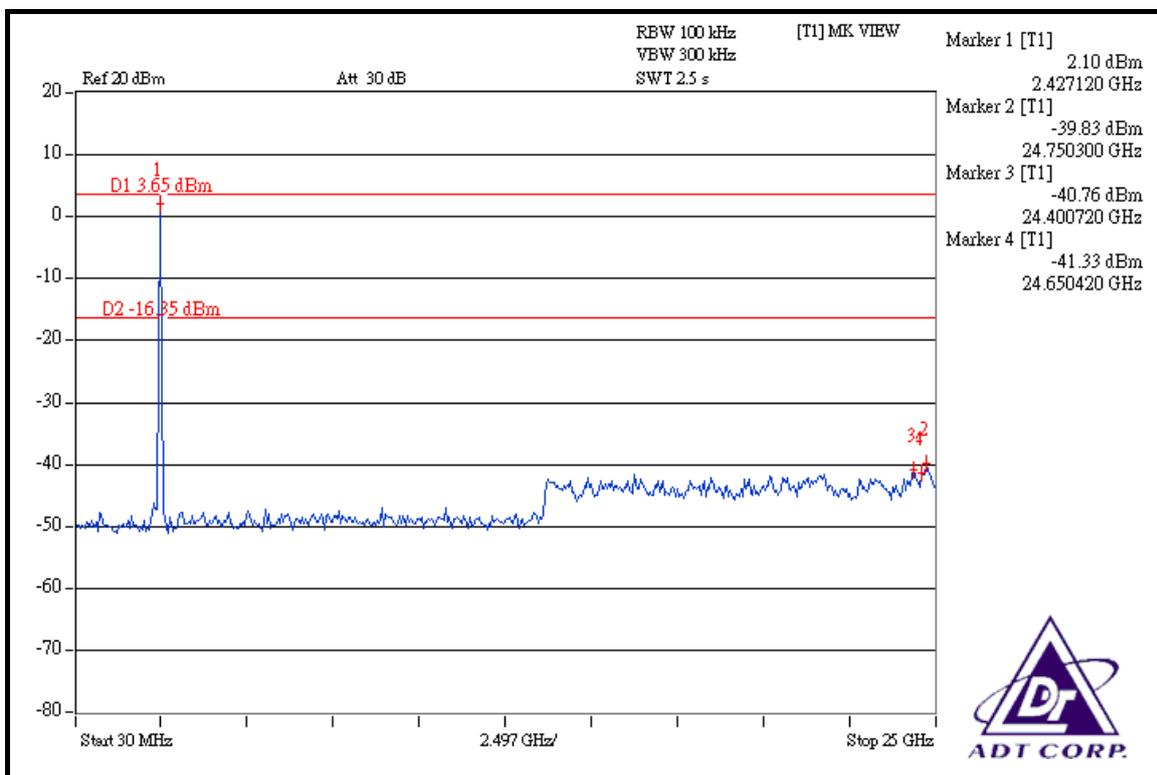
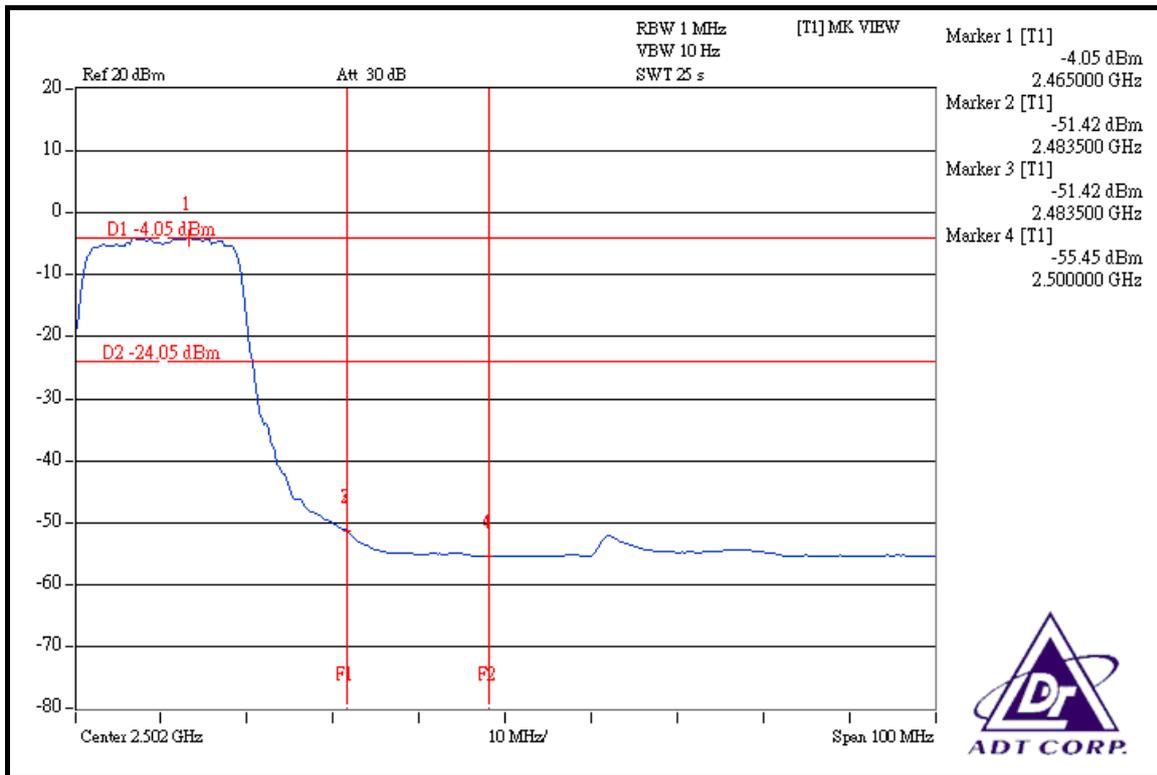
NOTE 2:

The band edge emission plot on the next second page shows 47.72dBc between carrier maximum power and local maximum emission in restrict band (2.48580GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 109.65dBuV/m (Peak), so the maximum field strength in restrict band is $109.65 - 47.72 = 61.93\text{dBuV/m}$ which is under 74dBuV/m limit.

The band edge emission plot on the next third page shows 47.37dBc between carrier maximum power and local maximum emission in restrict band (2.48350GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 99.52dBuV/m (Average), so the maximum field strength in restrict band is $99.52 - 47.37 = 52.15\text{dBuV/m}$ which is under 54dBuV/m limit.







DRAFT 802.11n (40MHz) OFDM MODULATION

Test Mode: A1

NOTE 1:

The band edge emission plot on the next page shows 41.85dBc between carrier maximum power and local maximum emission in restrict band (2.38960GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 101.43dBuV/m (Peak), so the maximum field strength in restrict band is $101.43 - 41.85 = 59.58$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next page shows 42.72dBc between carrier maximum power and local maximum emission in restrict band (2.38960GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 91.27dBuV/m (Average), so the maximum field strength in restrict band is $91.27 - 42.72 = 48.55$ dBuV/m which is under 54dBuV/m limit.

NOTE 2:

The band edge emission plot on the next second page shows 40.50dBc between carrier maximum power and local maximum emission in restrict band (2.48440GHz). The emission of carrier strength list in the test result of channel 7 at the item 4.2.7 is 102.00dBuV/m (Peak), so the maximum field strength in restrict band is $102.00 - 40.50 = 61.50$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next third page shows 45.35dBc between carrier maximum power and local maximum emission in restrict band (2.48480GHz). The emission of carrier strength list in the test result of channel 7 at the item 4.2.7 is 91.60dBuV/m (Average), so the maximum field strength in restrict band is $91.60 - 45.35 = 46.25$ dBuV/m which is under 54dBuV/m limit.

Test Mode: B1

NOTE 1:

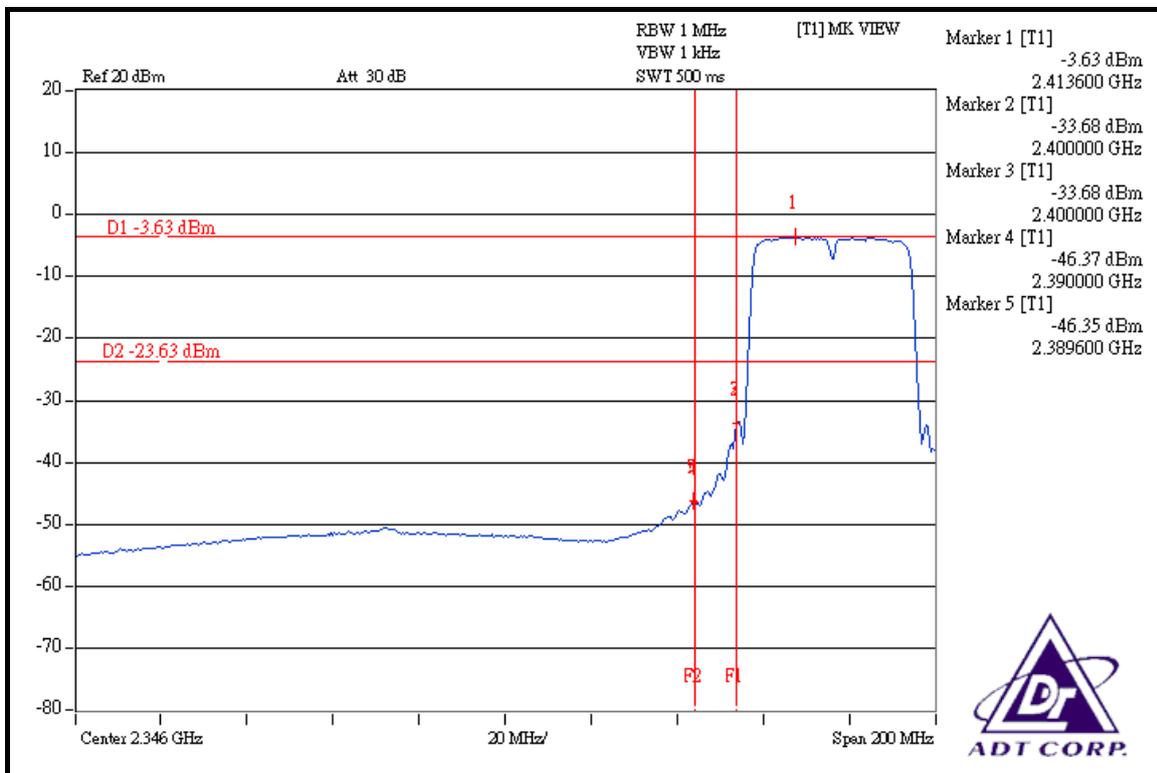
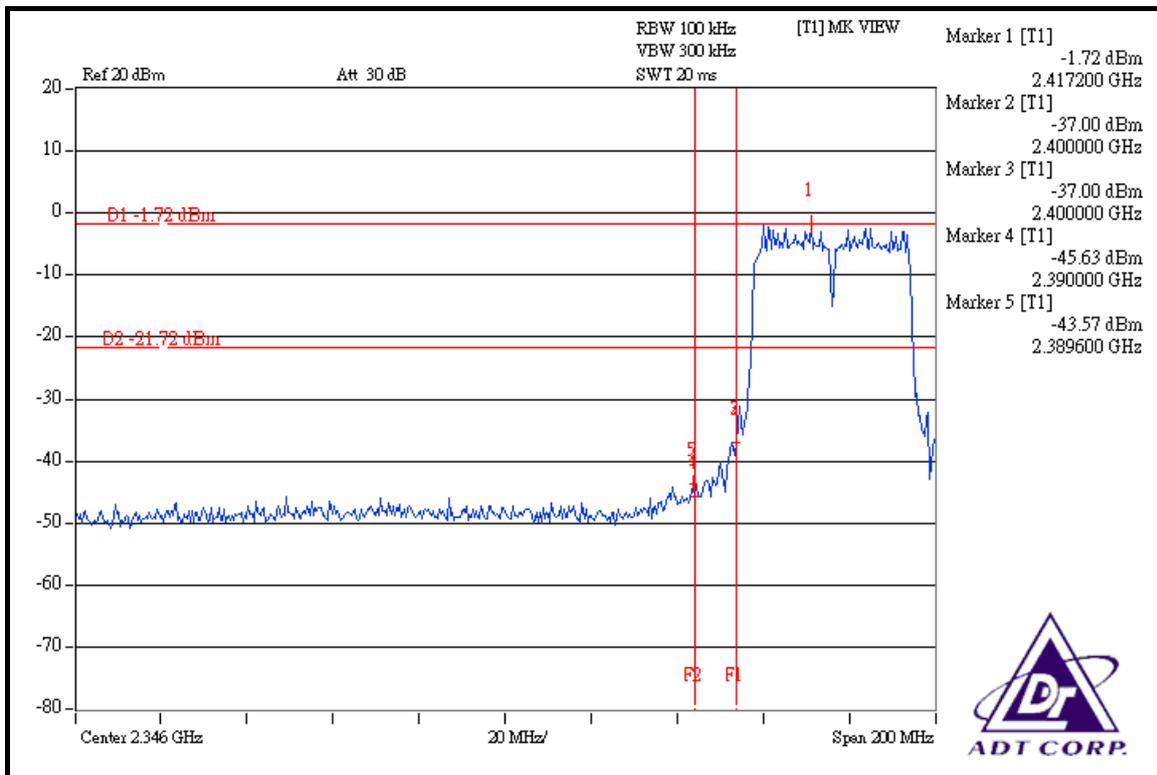
The band edge emission plot on the next page shows 41.85dBc between carrier maximum power and local maximum emission in restrict band (2.38960GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 103.02dBuV/m (Peak), so the maximum field strength in restrict band is $103.02 - 41.85 = 61.17$ dBuV/m which is under 74dBuV/m limit.

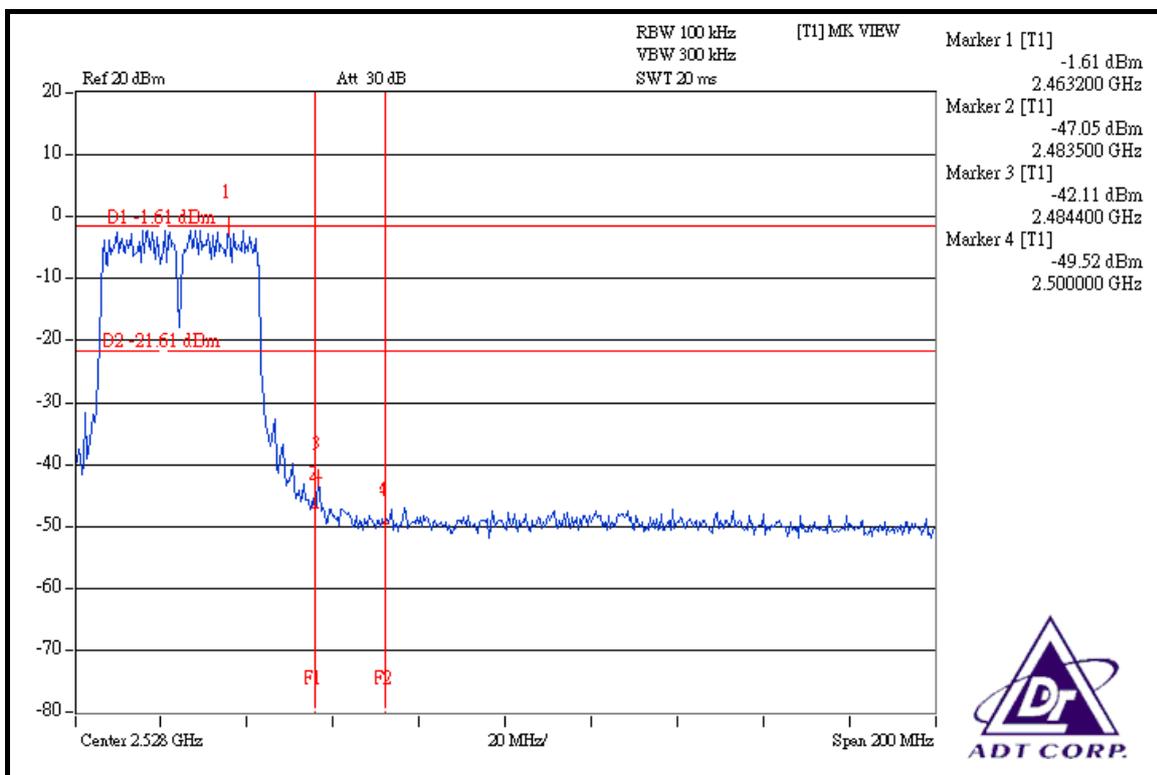
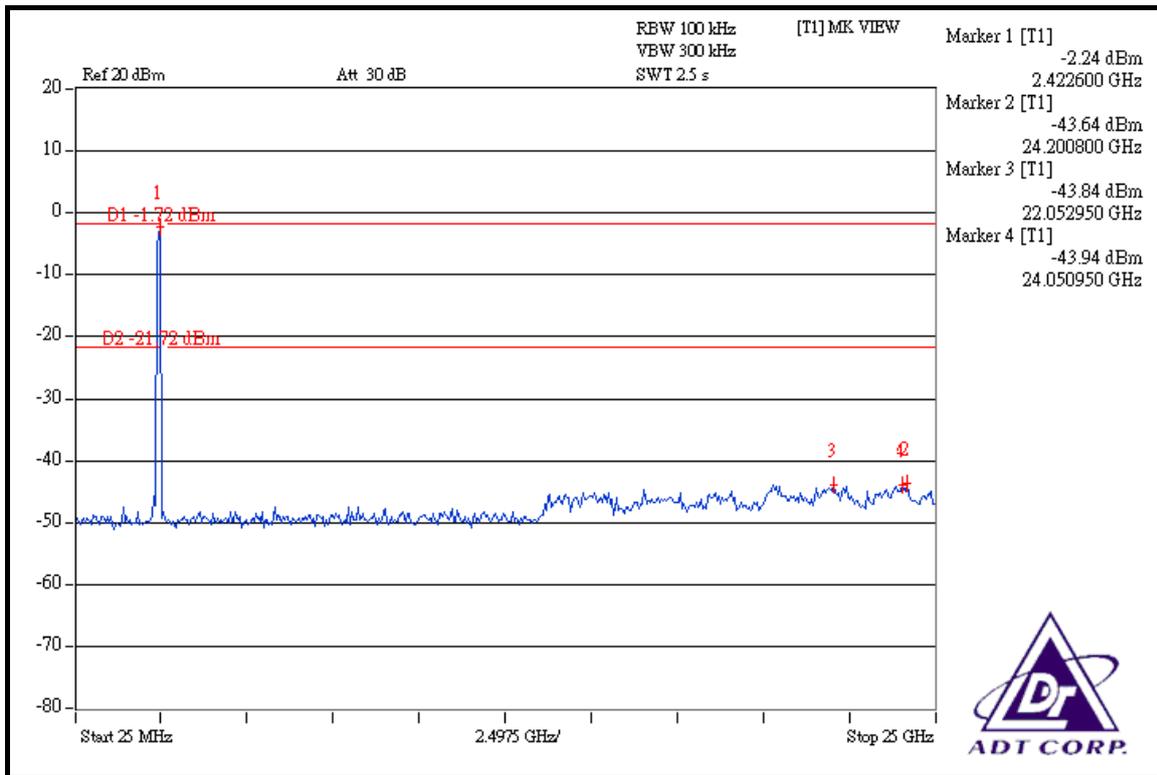
The band edge emission plot on the next page shows 42.72dBc between carrier maximum power and local maximum emission in restrict band (2.38960GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 92.76dBuV/m (Average), so the maximum field strength in restrict band is $92.76 - 42.72 = 50.04$ dBuV/m which is under 54dBuV/m limit.

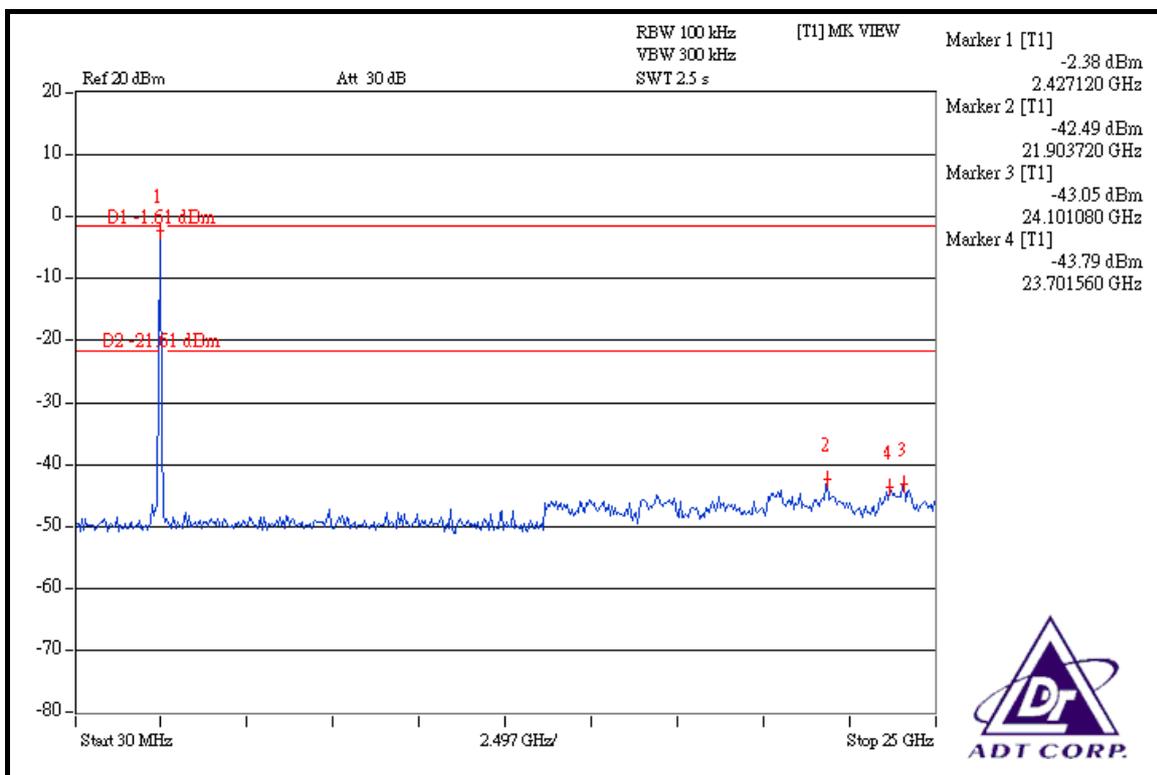
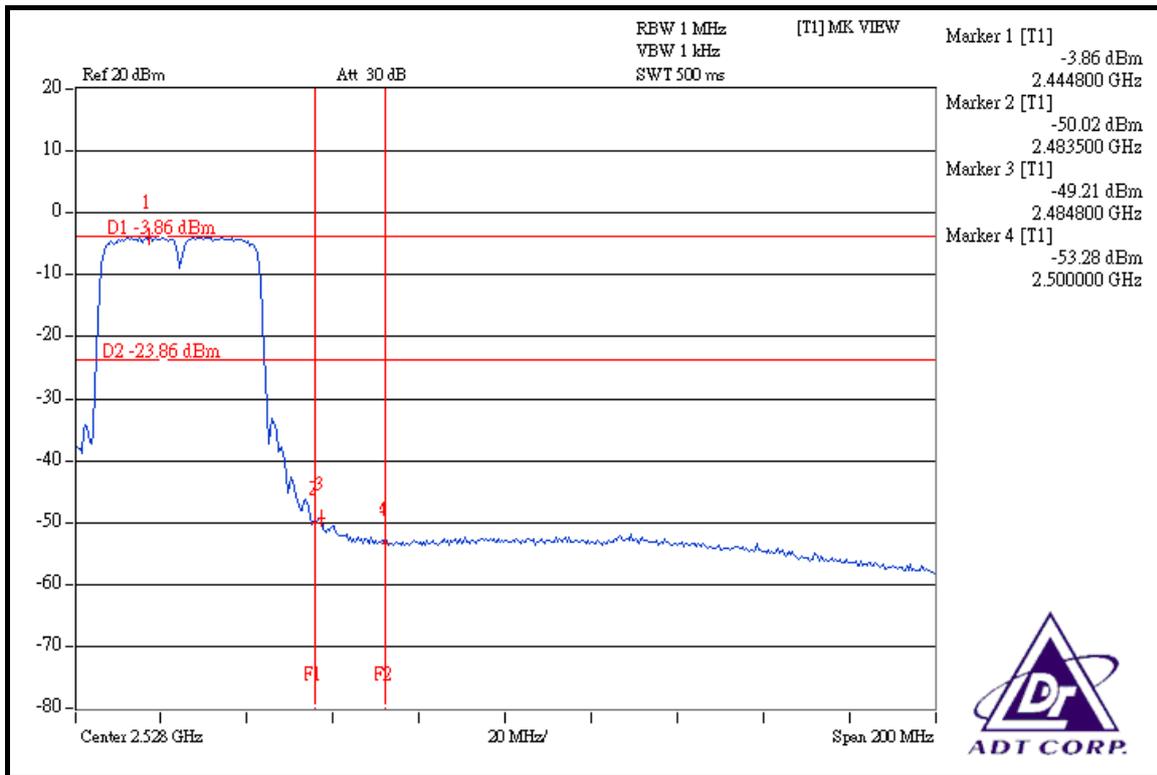
NOTE 2:

The band edge emission plot on the next second page shows 40.50dBc between carrier maximum power and local maximum emission in restrict band (2.48440GHz). The emission of carrier strength list in the test result of channel 7 at the item 4.2.7 is 103.08dBuV/m (Peak), so the maximum field strength in restrict band is $103.08 - 40.50 = 62.58$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next third page shows 45.35dBc between carrier maximum power and local maximum emission in restrict band (2.48480GHz). The emission of carrier strength list in the test result of channel 7 at the item 4.2.7 is 92.87dBuV/m (Average), so the maximum field strength in restrict band is $92.87 - 45.35 = 47.52$ dBuV/m which is under 54dBuV/m limit.









4.7 ANTENNA REQUIREMENT

4.7.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.7.2 ANTENNA CONNECTED CONSTRUCTION

The antenna used in this product is PIFA antenna without connector. The maximum gain of the antenna is 2.62dBi.



5. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



6. INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA	FCC, UL, A2LA
Germany	TUV Rheinland
Japan	VCCI
Norway	NEMKO
Canada	INDUSTRY CANADA, CSA
R.O.C.	TAF, BSMI, NCC
Netherlands	Telefication
Singapore	GOST-ASIA(MOU)
Russia	CERTIS(MOU)

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site:

www.adt.com.tw/index.5/phtml. If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF Lab:

Tel: 886-3-5935343

Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Telecom Lab:

Tel: 886-3-3183232

Fax: 886-3-3185050

Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.



7. APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.