

FCC TEST REPORT

REPORT NO.: RF960702L11A **MODEL NO.:** MXP802NPCI **RECEIVED:** Jul. 09, 2007

TESTED: Jul. 12 ~ Jul. 31, 2007

ISSUED: Nov. 27, 2007

APPLICANT: Newer Technology, Inc.

ADDRESS: 1002 Courtaulds Drive, Woodstock, IL, United

States, 60098

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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No.: 2177-01



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1. CERTIFICATION

PRODUCT: Wireless-N PCI Adapter

MODEL: MXP802NPCI

BRAND: MaxPower

APPLICANT: Newer Technology, Inc.

TESTED: Jul. 12 ~ Jul. 31, 2007

TEST SAMPLE: ENGINEERING SAMPLE

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

ANSI C63.4-2003

The above equipment (model: MXP802NPCI) 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.

: _______, DATE: Nov. 27, 2007

Rennie Wang / Senior Specialist PREPARED BY

TECHNICAL

ACCEPTANCE

Responsible for RF

: Gary Chang / Assistant Manager , DATE: Nov. 27, 2007 **APPROVED BY**



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 -13.76 dB at 0.658 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 -1.35 dB at 2483.50 MHz.					
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
	30MHz ~ 200MHz	3.34 dB
Radiated emissions	200MHz ~1000MHz	3.35 dB
Radiated emissions	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	Wireless-N PCI Adapter				
MODEL NO.	MXP802NPCI				
FCC ID	UNH-MXP802NPCI				
POWER SUPPLY	3.3Vdc from host equipment				
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM				
MODULATION TECHNOLOGY	DSSS, OFDM				
TRANSFER RATE	802.11b: 11.0/ 5.5/ 2.0/ 1.0Mbps 802.11g: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps Draft 802.11n (20MHz): 144.44/ 130.00/ 115.56/ 86.67/ 57.78/ 43.33/ 28.89/ 14.44/ 72.2/ 65.0/ 57.8/ 43.3/ 28.9/ 21.7/ 14.4/ 7.2Mbps Draft 802.11n (40MHz): 300.0/ 270.0/ 240.0/ 180.0/ 120.0/ 90.0/ 60.0/ 30.0/ 150.0/ 135.0/ 120.0/ 90.0/ 60.0/ 45.0/ 30.0/ 15.0Mbps				
FREQUENCY RANGE	2412MHz ~ 2462MHz				
NUMBER OF CHANNEL	11 for 802.11b, 802.11g, Draft 802.11n (20MHz) 7 for Draft 802.11n (40MHz)				
MAXIMUM OUTPUT POWER	100.231mW				
ANTENNA TYPE	Swivel type dipole antenna with 0.84dBi gain				
DATA CABLE	NA				
I/O PORTS	NA				
ASSOCIATED DEVICES	NA				

NOTE:

- 1. This report is issued as a duplicate report to the original ADT report no.: RF960702L11. The EUT was identical to the original application one. The only differences are changing the model name, brand name and applicant due to marketing requirement.
- 2. The EUT incorporates a MIMO function with 802.11b, 802.11g, draft 802.11n. Physically, the card provides two completed transmitters and three receivers.
- 3. The EUT is 2 * 3 spatial MIMO (2Tx & 3Rx) without beam forming function.
- 4. When the EUT operating in 802.11b/g, the software operation, which is defined by manufacturer, only set single Tx.
- 5. When the EUT operating in draft 802.11n, the software operation, which is defined by manufacturer, only set $0 \sim 15$ of "MCS" (MCS: Modulation and Coding Schemes) for dual Tx.
- 6. The EUT complies with draft 802.11n standards and backwards compatible with 802.11b, 802.11g products.
- 7. The EUT operates in the 2.4GHz frequency spectrum with throughput of up to 300Mbps.
- 8. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.



3.2 DESCRIPTION OF TEST MODES

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

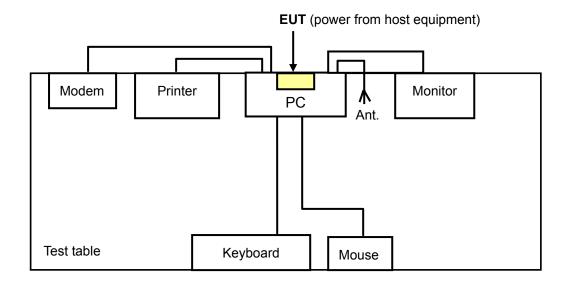
CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412MHz	7	2442MHz
2	2417MHz	8	2447MHz
3	2422MHz	9	2452MHz
4	2427MHz	10	2457MHz
5	2432MHz	11	2462MHz
6	2437MHz		

Seven channels are provided for draft 802.11n (40MHz):

CHANNEL	CHANNEL FREQUENCY		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		APPLICA	DESCRIPTION		
CONFIGURE MODE	PLC	RE < 1G	RE≥1G	APCM	DESCRIPTION
-	V	V	V	V	-

Where **PLC**: Power Line Conducted Emission

RE < 1G: Radiated Emission below 1GHz

RE ≥ **1G**: Radiated Emission above 1GHz

APCM: Antenna Port Conducted Measurement

POWER LINE CONDUCTED EMISSION TEST:

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

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

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

RADIATED EMISSION TEST (BELOW 1 GHz):

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

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

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



RADIATED EMISSION TEST (ABOVE 1 GHz):

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

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

BANDEDGE MEASUREMENT:

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

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

ANTENNA PORT CONDUCTED MEASUREMENT:

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

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



3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

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

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

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

3.4 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	PC	MSI	Hetis 865G	380125734	FCC DoC Approved
2	LCD MONITOR	ACER	AL1721	ET.L0408.010404 001F9PK00	FCC DoC Approved
3	LCD MONITOR	ACER	AL1511 bm	ET.L1408.043348 00145PK01	FCC DoC Approved
4	PRINTER	EPSON	LQ-300+	DCGY054146	FCC DoC Approved
5	MODEM	ACEEX	1414V/3	0401008260	IFAXDM1414
6	KEYBOARD	DELL	RT7D50	CN-0J4624-3717 2-44T-000M	FCC DoC Approved
7	MOUSE	DELL	MO56UO	513021808	FCC DoC Approved

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS								
1	NA								
2	1.8m braid shielded wire , DVI & DSUB connector , with two cores								
3	1.8m braid shielded wire , DVI & DSUB connector , with two cores								
4	1.8m braid shielded wire , DB25 connector , w/o core.								
5	1.2m braid shielded wire , DB25 & DB9 connector , w/o core.								
6	2m foil shielded wire, USB Connector, w/o core.								
7	1.8m foil shielded wire, USB Connector, w/o core.								

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



4. TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

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

NOTE: 1. The lower limit shall apply at the transition frequencies.

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

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	100289	Dec. 07, 2007
RF signal cable Woken	5D-FB	Cable-HYC01-01	Jan. 06, 2008
LISN ROHDE & SCHWARZ	ESH3-Z5	100312	Feb. 13, 2008
LISN ROHDE & SCHWARZ	ESH2-Z5	100104	Sep. 14, 2007
Software ADT	ADT_Cond_V3	NA	NA

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The test was performed in HwaYa Shielded Room 1.
- 3. The VCCI Site Registration No. is C-2040.



4.1.3 TEST PROCEDURES

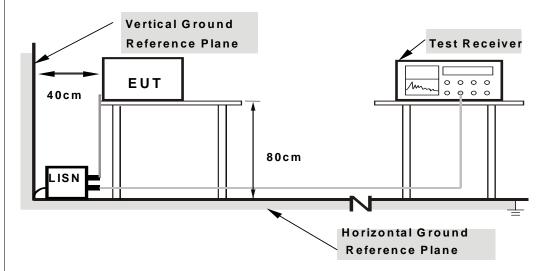
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling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

	:					
414	DEM	ΔΤΙΩΝΙ	FROM	TEST	STAND	$\Delta R \Gamma$

No deviation



4.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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

4.1.6 EUT OPERATING CONDITIONS

- a. Connected the EUT to PC and placed on a testing table.
- b. The PC ran a test program to enable EUT under transmission condition continuously at specific channel frequency.
- c. The necessary accessories enable the system in full functions.



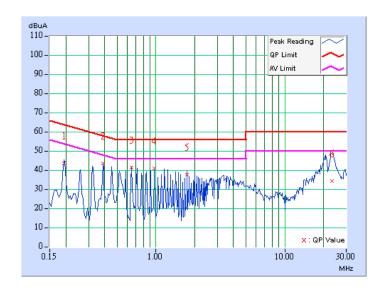
4.1.7 TEST RESULTS

CONDUCTED WORST-CASE DATA 802.11g OFDM MODULATION

EUT TEST CONDITION	N .	MEASUREMENT DETAIL		
CHANNEL	Channel 1	PHASE	Line 1	
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz	
TRANSFER RATE	6.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
	25deg. C, 65% RH, 982hPa	TESTED BY	Lori Chiu	

No Freq.		Corr.	Readin	g Value		sion vel	Lir	nit	Mar	gin
NO		Factor	[dB ((uV)]	[dB ((uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.21	42.32	-	42.53	-	63.91	53.91	-21.38	-
2	0.388	0.21	42.25	-	42.46	-	58.10	48.10	-15.64	-
3	0.650	0.22	40.30	-	40.52	-	56.00	46.00	-15.48	-
4	0.974	0.24	39.66	-	39.90	-	56.00	46.00	-16.10	-
5	1.750	0.26	36.36	-	36.62	-	56.00	46.00	-19.38	-
6	23.129	1.29	33.06	-	34.35	-	60.00	50.00	-25.65	-

- 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.

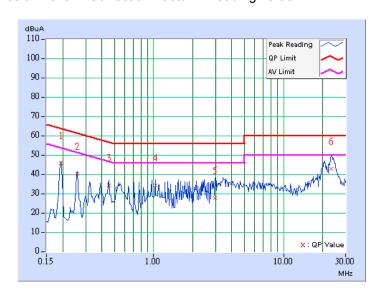




EUT TEST CONDITION	N .	MEASUREMENT DETAIL		
CHANNEL	Channel 1	PHASE	Line 2	
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz	
TRANSFER RATE	6.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
ENVIRONMENTAL CONDITIONS	25deg. C, 65% RH, 982hPa	TESTED BY	Lori Chiu	

No	Freq.	Corr.	Readin	g Value	Emis Le	ssion vel	Lir	nit	Mar	gin
NO		Factor	[dB ((uV)]	[dB ((uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.21	45.28	-	45.49	-	63.91	53.91	-18.42	-
2	0.259	0.21	39.97	-	40.18	-	61.45	51.45	-21.27	-
3	0.451	0.21	33.86	-	34.07	-	56.86	46.86	-22.79	-
4	1.031	0.24	33.96	-	34.20	-	56.00	46.00	-21.80	-
5	2.965	0.32	27.11	-	27.43	-	56.00	46.00	-28.57	-
6	23.129	0.54	42.38	-	42.92	-	60.00	50.00	-17.08	-

- 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.

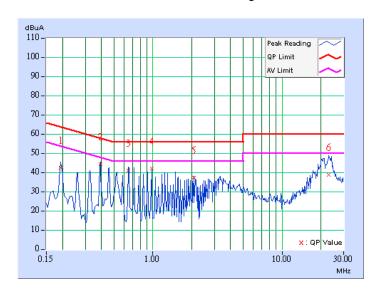




EUT TEST CONDITION	N .	MEASUREMENT DETAIL		
CHANNEL	HANNEL Channel 6 PHASE		Line 1	
MODULATION TYPE	ODULATION TYPE BPSK 6dB BAN		9 kHz	
TRANSFER RATE	6.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
ENVIRONMENTAL CONDITIONS	25deg. C, 65% RH, 982hPa	TESTED BY	Lori Chiu	

No	Freq. Corr.		Readin	g Value	Emis Le	sion vel	Lir	nit	Mar	gin
NO		Factor	[dB	(uV)]	[dB ((uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.193	0.21	41.31	-	41.52	-	63.91	53.91	-22.39	-
2	0.392	0.21	43.19	-	43.40	-	58.02	48.02	-14.62	-
3	0.650	0.22	39.82	-	40.04	-	56.00	46.00	-15.96	-
4	0.978	0.24	40.75	-	40.99	-	56.00	46.00	-15.01	-
5	2.086	0.27	35.99	-	36.26	-	56.00	46.00	-19.74	-
6	23.074	1.29	37.66	-	38.95	-	60.00	50.00	-21.05	-

- 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.

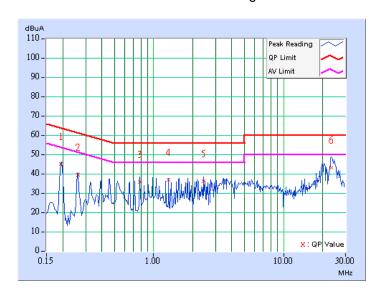




EUT TEST CONDITION	N .	MEASUREMENT DETAIL			
CHANNEL	Channel 6	PHASE	Line 2		
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz		
TRANSFER RATE	6.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
	25deg. C, 65% RH, 982hPa	TESTED BY	Lori Chiu		

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin		
No		Factor	[dB	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.193	0.21	44.47	-	44.68	-	63.91	53.91	-19.23	-	
2	0.263	0.21	39.17	-	39.38	-	61.33	51.33	-21.95	-	
3	0.783	0.23	35.48	-	35.71	-	56.00	46.00	-20.29	-	
4	1.305	0.25	36.46	-	36.71	-	56.00	46.00	-19.29	-	
5	2.414	0.29	35.73	-	36.02	-	56.00	46.00	-19.98	-	
6	23.359	0.54	42.81	-	43.35	-	60.00	50.00	-16.65	-	

- 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.

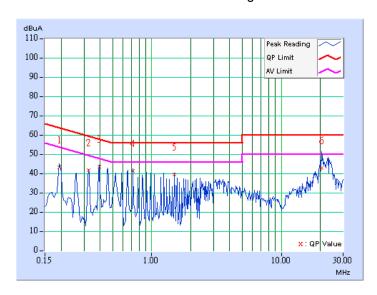




EUT TEST CONDITION	N	MEASUREMENT DETAIL			
CHANNEL	Channel 11	PHASE	Line 1		
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz		
TRANSFER RATE	6.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	25deg. C, 65% RH, 982hPa	TESTED BY	Lori Chiu		

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin		
No		Factor	[dB ((uV)]	[dB ([dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.193	0.21	42.32	-	42.53	-	63.91	53.91	-21.38	-	
2	0.326	0.21	40.77	-	40.98	-	59.56	49.56	-18.58	-	
3	0.392	0.21	42.49	-	42.70	-	58.02	48.02	-15.32	-	
4	0.720	0.23	40.39	-	40.62	-	56.00	46.00	-15.38	-	
5	1.504	0.25	38.49	-	38.74	-	56.00	46.00	-17.26	-	
6	20.457	1.07	41.84	-	42.91	-	60.00	50.00	-17.09	-	

- 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.

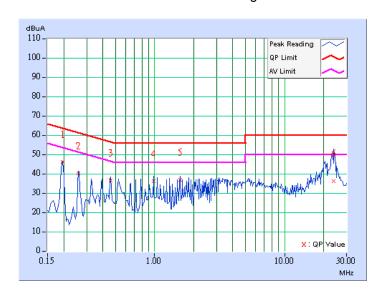




EUT TEST CONDITION	N .	MEASUREMENT DETAIL			
CHANNEL	Channel 11	PHASE	Line 2		
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz		
TRANSFER RATE	6.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
	25deg. C, 65% RH, 982hPa	TESTED BY	Lori Chiu		

No	Freq. Corr.		Reading Value			Emission Level		Limit		Margin	
NO		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)		
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.197	0.21	45.92	-	46.13	-	63.74	53.74	-17.61	-	
2	0.259	0.21	39.90	-	40.11	-	61.45	51.45	-21.34	-	
3	0.459	0.21	36.25	-	36.46	-	56.72	46.72	-20.26	-	
4	0.978	0.24	35.74	-	35.98	-	56.00	46.00	-20.02	-	
5	1.566	0.25	36.61	-	36.86	-	56.00	46.00	-19.14	-	
6	24.008	0.55	35.64	-	36.19	-	60.00	50.00	-23.81	-	

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



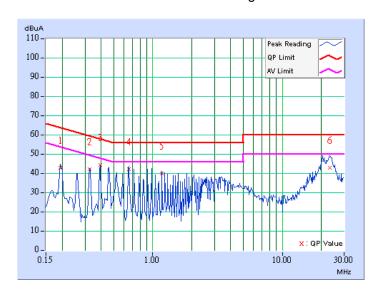


DRAFT 802.11n (20MHz) OFDM MODULATION

EUT TEST CONDITION	N .	MEASUREMENT DETAIL			
CHANNEL	Channel 1	PHASE	Line 1		
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz		
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	25deg. C, 65% RH, 982hPa	TESTED BY	Lori Chiu		

No	Freq.	eq. Corr. Reading Value			Emission Level		Limit		Margin		
NO		Factor	[dB ([dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.193	0.21	41.51	-	41.72	-	63.91	53.91	-22.19	-	
2	0.326	0.21	40.81	-	41.02	-	59.56	49.56	-18.54	-	
3	0.392	0.21	43.30	-	43.51	-	58.02	48.02	-14.51	-	
4	0.654	0.22	40.95	-	41.17	-	56.00	46.00	-14.83	-	
5	1.176	0.24	38.57	-	38.81	-	56.00	46.00	-17.19	-	
6	23.352	1.31	41.58	-	42.89	-	60.00	50.00	-17.11	-	

- 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.

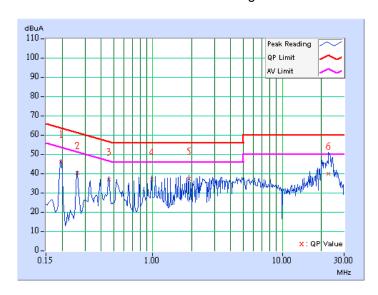




EUT TEST CONDITION	ı	MEASUREMENT DETAIL			
CHANNEL	Channel 1	PHASE	Line 2		
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz		
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
	25deg. C, 65% RH, 982hPa	TESTED BY	Lori Chiu		

No	Freq. Corr.		Reading Value		Emission Level		Limit		Margin	
NO		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.197	0.21	45.84	-	46.05	-	63.74	53.74	-17.69	-
2	0.263	0.21	39.74	-	39.95	-	61.33	51.33	-21.38	-
3	0.459	0.21	36.59	-	36.80	-	56.72	46.72	-19.92	-
4	0.982	0.24	36.34	-	36.58	-	56.00	46.00	-19.42	-
5	1.898	0.26	36.69	-	36.95	-	56.00	46.00	-19.05	-
6	22.766	0.54	39.35	-	39.89	-	60.00	50.00	-20.11	-

- 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.

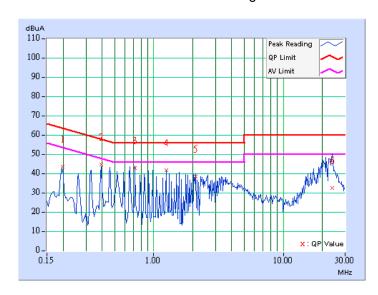




EUT TEST CONDITION	N .	MEASUREMENT DETAIL			
CHANNEL	Channel 6	PHASE	Line 1		
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz		
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	25deg. C, 65% RH, 982hPa	TESTED BY	Lori Chiu		

No	Freq.	Freq. Corr. Reading Value		Emission Level		Limit		Margin			
NO		Factor	[dB	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.197	0.21	42.32	-	42.53	-	63.73	53.73	-21.20	-	
2	0.392	0.21	43.48	-	43.69	-	58.02	48.02	-14.33	-	
3	0.720	0.23	41.55	-	41.78	-	56.00	46.00	-14.22	-	
4	1.246	0.24	40.40	-	40.64	-	56.00	46.00	-15.36	-	
5	2.098	0.27	37.21	-	37.48	-	56.00	46.00	-18.52	-	
6	23.883	1.36	31.42	-	32.78	-	60.00	50.00	-27.22	-	

- 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.

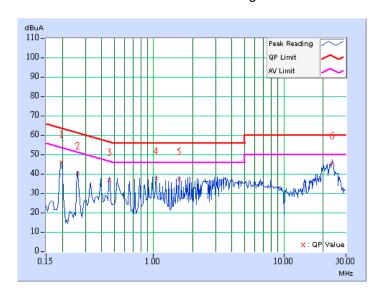




EUT TEST CONDITION	N .	MEASUREMENT DETAIL			
CHANNEL	Channel 6	PHASE	Line 2		
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz		
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	25deg. C, 65% RH, 982hPa	TESTED BY	Lori Chiu		

Freq.		Corr. Reading Value		Emission Level		Limit		Margin		
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.197	0.21	45.59	-	45.80	-	63.74	53.74	-17.94	-
2	0.263	0.21	39.86	-	40.07	-	61.33	51.33	-21.26	-
3	0.459	0.21	36.59	-	36.80	-	56.72	46.72	-19.92	-
4	1.047	0.24	37.16	-	37.40	-	56.00	46.00	-18.60	-
5	1.570	0.25	36.79	-	37.04	-	56.00	46.00	-18.96	-
6	23.496	0.54	44.97	-	45.51	-	60.00	50.00	-14.49	-

- 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.

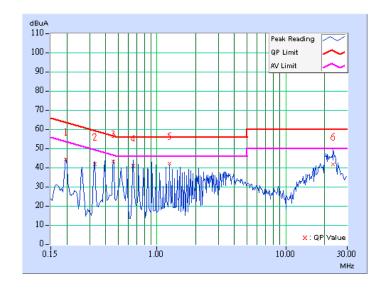




EUT TEST CONDITION	N	MEASUREMENT DETAIL			
CHANNEL	Channel 11	PHASE	Line 1		
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz		
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	25deg. C, 65% RH, 982hPa	TESTED BY	Lori Chiu		

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin		
No 1104		Factor	[dB	(uV)]	[dB ([dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.197	0.21	43.17	-	43.38	-	63.74	53.74	-20.36	-	
2	0.330	0.21	40.43	-	40.64	-	59.46	49.46	-18.82	-	
3	0.459	0.21	42.03	-	42.24	-	56.72	46.72	-14.48	-	
4	0.654	0.22	39.72	-	39.94	-	56.00	46.00	-16.06	-	
5	1.246	0.24	40.76	-	41.00	-	56.00	46.00	-15.00	-	
6	23.332	1.31	40.61	-	41.92	-	60.00	50.00	-18.08	-	

- 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.

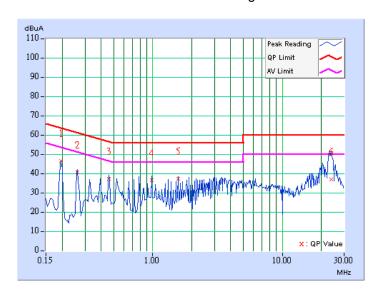




EUT TEST CONDITION	ı	MEASUREMENT DETAIL			
CHANNEL	Channel 11	PHASE	Line 2		
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz		
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
	25deg. C, 65% RH, 982hPa	TESTED BY	Lori Chiu		

No. F	Freq.	Freq. Corr.		Reading Value		Emission Level		Limit		Margin	
NO	No Hogi		[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)		
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.197	0.21	46.18	-	46.39	-	63.74	53.74	-17.35	-	
2	0.263	0.21	40.04	-	40.25	-	61.33	51.33	-21.08	-	
3	0.459	0.21	36.77	-	36.98	-	56.72	46.72	-19.74	-	
4	0.982	0.24	36.06	-	36.30	-	56.00	46.00	-19.70	-	
5	1.574	0.25	37.04	-	37.29	-	56.00	46.00	-18.71	-	
6	23.789	0.55	36.44	-	36.99	-	60.00	50.00	-23.01	-	

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



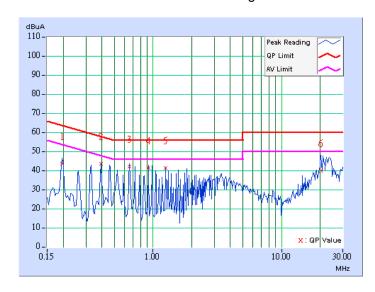


DRAFT 802.11n (40MHz) OFDM MODULATION

EUT TEST CONDITION	N .	MEASUREMENT DETAIL			
CHANNEL	Channel 1	PHASE	Line 1		
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz		
TRANSFER RATE	15.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	25deg. C, 65% RH, 982hPa	TESTED BY	Lori Chiu		

No	Freq. Corr.		Reading Value			Emission Level		Limit		Margin	
No		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)		
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.197	0.21	42.62	-	42.83	-	63.74	53.74	-20.91	-	
2	0.392	0.21	42.80	-	43.01	-	58.02	48.02	-15.01	-	
3	0.654	0.22	41.11	-	41.33	-	56.00	46.00	-14.67	-	
4	0.920	0.24	40.35	-	40.59	-	56.00	46.00	-15.41	-	
5	1.246	0.24	40.36	-	40.60	-	56.00	46.00	-15.40	-	
6	20.348	1.06	38.84	-	39.90	-	60.00	50.00	-20.10	-	

- 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.

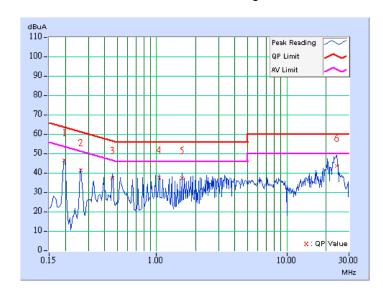




EUT TEST CONDITION	N .	MEASUREMENT DETAIL			
CHANNEL	Channel 1	PHASE	Line 2		
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz		
TRANSFER RATE	15.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL CONDITIONS	25deg. C, 65% RH, 982hPa	TESTED BY	Lori Chiu		

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin		
No		Factor	[dB	(uV)]	[dB ([dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.197	0.21	46.16	-	46.37	-	63.74	53.74	-17.37	-	
2	0.263	0.21	41.00	-	41.21	-	61.33	51.33	-20.12	-	
3	0.459	0.21	36.77	-	36.98	-	56.72	46.72	-19.74	-	
4	1.051	0.24	37.38	-	37.62	-	56.00	46.00	-18.38	-	
5	1.574	0.25	37.00	-	37.25	-	56.00	46.00	-18.75	-	
6	24.078	0.55	43.12	-	43.67	-	60.00	50.00	-16.33	-	

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

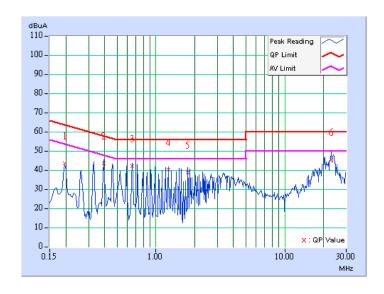




EUT TEST CONDITION	· ·	MEASUREMENT DETAIL			
CHANNEL	Channel 4	PHASE	Line 1		
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz		
TRANSFER RATE	15.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
ENVIRONMENTAL 25deg. C, 65% RH, 982hPa		TESTED BY	Lori Chiu		

No Fr	Freq.	Corr.	Readin	g Value	Emis Le	ssion vel	Lir	nit	Mar	gin
		Factor	[dB ((uV)]	[dB ((uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.197	0.21	42.50	-	42.71	-	63.74	53.74	-21.03	-
2	0.392	0.21	42.43	-	42.64	-	58.02	48.02	-15.38	-
3	0.654	0.22	40.81	-	41.03	-	56.00	46.00	-14.97	-
4	1.246	0.24	39.03	-	39.27	-	56.00	46.00	-16.73	-
5	1.773	0.26	37.72	-	37.98	-	56.00	46.00	-18.02	-
6	22.992	1.28	44.34	-	45.62	-	60.00	50.00	-14.38	-

- 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.

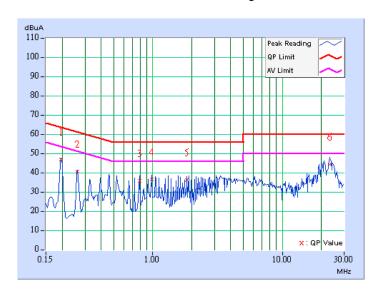




EUT TEST CONDITION	N .	MEASUREMENT DETAIL		
CHANNEL	Channel 4	PHASE	Line 2	
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz	
TRANSFER RATE	15.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
	25deg. C, 65% RH, 982hPa	TESTED BY	Lori Chiu	

No Freq.	Corr.	Readin	g Value	Emis Le	ssion vel	Lir	nit	Mar	gin	
INO		Factor	[dB ((uV)]	[dB ((uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.197	0.21	46.64	-	46.85	-	63.74	53.74	-16.89	-
2	0.263	0.21	40.22	-	40.43	-	61.33	51.33	-20.90	-
3	0.791	0.23	35.43	-	35.66	-	56.00	46.00	-20.34	-
4	0.986	0.24	36.22	-	36.46	-	56.00	46.00	-19.54	-
5	1.840	0.26	35.68	-	35.94	-	56.00	46.00	-20.06	-
6	23.121	0.54	44.07	-	44.61	-	60.00	50.00	-15.39	-

- 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.

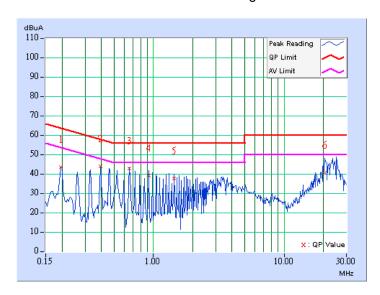




EUT TEST CONDITION	N	MEASUREMENT DETAIL		
CHANNEL	Channel 7	PHASE	Line 1	
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz	
TRANSFER RATE	15.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
ENVIRONMENTAL CONDITIONS	25deg. C, 65% RH, 982hPa	TESTED BY	Lori Chiu	

No Freq.		Corr.	Readin	g Value	Emis Le	ssion vel	Lir	nit	Mar	gin
NO		Factor	[dB ((uV)]	[dB ((uV)]	[dB	(uV)]	(dl	3)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.197	0.21	42.54	-	42.75	-	63.74	53.74	-20.99	_
2	0.396	0.21	43.03	-	43.24	-	57.93	47.93	-14.69	_
3	0.658	0.22	42.02	-	42.24	-	56.00	46.00	-13.76	-
4	0.923	0.24	38.05	-	38.29	-	56.00	46.00	-17.71	-
5	1.445	0.25	36.55	-	36.80	-	56.00	46.00	-19.20	-
6	20.504	1.07	39.82	-	40.89	-	60.00	50.00	-19.11	_

- 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.

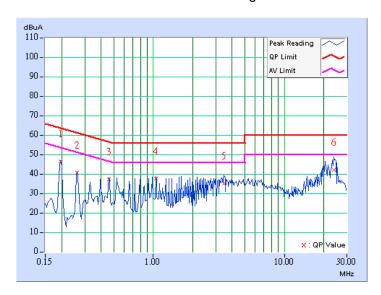




EUT TEST CONDITION	N .	MEASUREMENT DETAIL		
CHANNEL	Channel 7	PHASE	Line 2	
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz	
TRANSFER RATE	15.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
ENVIRONMENTAL CONDITIONS	25deg. C, 65% RH, 982hPa	TESTED BY	Lori Chiu	

Freq.	Freq.	Corr.	Readin	g Value		ssion vel	Lir	nit	Mar	gin
No		Factor	[dB ((uV)]	[dB ((uV)]	[dB	(uV)]	(dl	B)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.197	0.21	46.21	-	46.42	-	63.74	53.74	-17.32	-
2	0.263	0.21	40.22	-	40.43	-	61.33	51.33	-20.90	-
3	0.459	0.21	36.69	-	36.90	-	56.72	46.72	-19.82	-
4	1.051	0.24	37.26	-	37.50	-	56.00	46.00	-18.50	-
5	3.480	0.36	34.53	-	34.89	-	56.00	46.00	-21.11	-
6	23.984	0.55	41.84	-	42.39	-	60.00	50.00	-17.61	-

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





4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

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

NOTE:

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



4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCI	100424	Aug. 04, 2007
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100025	Oct. 05, 2007
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	May 31, 2008
HORN Antenna SCHWARZBECK	9120D	9120D-209	Jun. 28, 2008
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170243	Dec. 28, 2007
Preamplifier Agilent	8447D	2944A10633	Oct. 26, 2007
Preamplifier Agilent	8449B	3008A01964	Oct. 26, 2007
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	238137/4	Dec. 11, 2007
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	233233/4	Nov. 14, 2007
Software ADT.	ADT_Radiated_V7.6	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA
Antenna Tower Controller inn-co GmbH	CO2000	017303	NA
Turn Table ADT.	TT100.	TT93021703	NA
Turn Table Controller ADT.	SC100.	SC93021703	NA

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The test was performed in HwaYa Chamber 3.
- 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 4. The VCCI Site Registration No. is R-237.5. The IC Site Registration No. is IC3789B-3.



4.2.3 TEST PROCEDURES

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

NOTE:

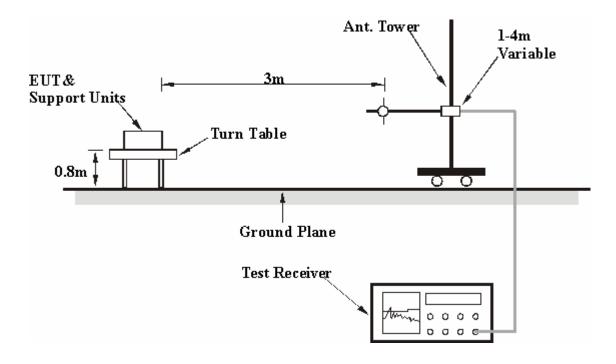
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency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

4.2.4 DEVIATION FROM TEST STANDARD

No deviation



4.2.5 TEST SETUP



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

BELOW 1GHz WORST-CASE DATA 802.11g OFDM MODULATION

EUT TEST CONDITION	N	MEASUREMENT DETAIL			
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz		
MODULATION TYPE	BPSK for 802.11g	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
TRANSFER RATE	6.0Mbps	DETECTOR FUNCTION	Quasi-Peak		
ENVIRONMENTAL CONDITIONS	26deg. C, 65% RH, 989hPa	TESTED BY	Dean Wang		

	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	70.73	30.60 QP	40.00	-9.40	1.50 H	22	18.06	12.54			
2	167.94	33.64 QP	43.50	-9.86	1.50 H	271	19.73	13.91			
3	202.94	38.30 QP	43.50	-5.20	2.00 H	154	26.91	11.39			
4	356.54	38.71 QP	46.00	-7.29	1.00 H	10	22.09	16.62			
5	370.15	41.17 QP	46.00	-4.83	1.00 H	10	24.23	16.94			
6	436.26	34.04 QP	46.00	-11.96	1.00 H	199	15.12	18.92			
7	665.68	32.03 QP	46.00	-13.97	1.00 H	52	8.25	23.78			

	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	70.73	34.82 QP	40.00	-5.18	1.00 V	88	22.28	12.54				
2	167.94	37.55 QP	43.50	-5.95	1.00 V	358	23.64	13.91				
3	224.33	35.09 QP	46.00	-10.91	1.00 V	10	22.75	12.35				
4	370.15	35.74 QP	46.00	-10.26	1.50 V	202	18.79	16.94				
5	613.19	33.69 QP	46.00	-12.31	2.00 V	214	10.94	22.76				
6	665.68	33.90 QP	46.00	-12.10	1.50 V	166	10.12	23.78				
7	947.60	35.16 QP	46.00	-10.84	1.00 V	151	6.87	28.28				

REMARKS:

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



DRAFT 802.11N (20MHz) OFDM MODULATION

EUT TEST CONDITION	N	MEASUREMENT DETAIL			
CHANNEL	HANNEL Channel 1 FREQUENCY RANGE		Below 1000MHz		
MODULATION TYPE	BPSK for draft 802.11n (20MHz)	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
TRANSFER RATE	7.2Mbps	DETECTOR FUNCTION	Quasi-Peak		
ENVIRONMENTAL CONDITIONS	26deg. C, 65% RH, 989hPa	TESTED BY	Dean Wang		

	ANT	ENNA POLAF	RITY & TE	ST DISTA	NCE: HO	RIZONTAL	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	167.94	32.69 QP	43.50	-10.81	1.00 H	274	18.78	13.91
2	202.94	39.07 QP	43.50	-4.43	1.50 H	61	27.68	11.39
3	235.99	32.70 QP	46.00	-13.30	1.00 H	55	19.84	12.87
4	304.04	34.48 QP	46.00	-11.52	1.00 H	70	19.23	15.25
5	356.54	39.62 QP	46.00	-6.38	1.00 H	19	23.00	16.62
6	370.15	42.57 QP	46.00	-3.43	1.00 H	13	25.63	16.94
7	438.20	33.06 QP	46.00	-12.94	1.00 H	205	14.08	18.98
8	506.25	32.26 QP	46.00	-13.74	1.00 H	205	11.85	20.41
9	665.68	32.58 QP	46.00	-13.42	1.00 H	46	8.80	23.78

	Al	NTENNA POL	ARITY & T	EST DIST	ANCE: VE	ERTICAL A	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	45.45	30.17 QP	40.00	-9.83	1.00 V	46	15.94	14.23
2	70.73	35.57 QP	40.00	-4.43	1.00 V	64	23.03	12.54
3	183.50	34.49 QP	43.50	-9.01	1.00 V	10	21.79	12.70
4	202.94	36.97 QP	43.50	-6.53	1.00 V	70	25.58	11.39
5	356.54	32.14 QP	46.00	-13.86	1.00 V	58	15.52	16.62
6	370.15	33.45 QP	46.00	-12.55	1.00 V	217	16.51	16.94
7	539.30	33.78 QP	46.00	-12.22	1.00 V	13	12.73	21.05
8	603.47	32.45 QP	46.00	-13.55	1.00 V	331	9.92	22.54
9	665.68	33.47 QP	46.00	-12.53	1.00 V	202	9.69	23.78
10	947.60	33.81 QP	46.00	-12.19	1.00 V	139	5.52	28.28

REMARKS:

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



DRAFT 802.11N (40MHz) OFDM MODULATION

EUT TEST CONDITION	N	MEASUREMENT DETAIL			
CHANNEL	ANNEL Channel 1 FREQUENCY RANGE		Below 1000MHz		
MODULATION TYPE	BPSK for draft 802.11n (40MHz)	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
TRANSFER RATE	15.0Mbps	DETECTOR FUNCTION	Quasi-Peak		
ENVIRONMENTAL CONDITIONS	26deg. C, 65% RH, 989hPa	TESTED BY	Dean Wang		

	ANT	ENNA POLAF	RITY & TE	ST DISTA	NCE: HOP	RIZONTAL	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	53.23	25.18 QP	40.00	-14.82	1.00 H	220	10.58	14.61
2	167.94	31.55 QP	43.50	-11.95	1.00 H	271	17.64	13.91
3	202.94	37.91 QP	43.50	-5.59	1.00 H	151	26.52	11.39
4	234.05	33.31 QP	46.00	-12.69	1.00 H	61	20.53	12.78
5	304.04	34.83 QP	46.00	-11.17	1.00 H	82	19.58	15.25
6	356.54	38.86 QP	46.00	-7.14	1.00 H	16	22.24	16.62
7	370.15	42.51 QP	46.00	-3.49	1.00 H	19	25.57	16.94
8	665.68	31.65 QP	46.00	-14.35	1.00 H	58	7.87	23.78

	Al	NTENNA POL	ARITY & T	EST DIST	ANCE: VE	RTICAL	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	45.45	28.49 QP	40.00	-11.51	1.00 V	85	14.26	14.23
2	70.73	34.57 QP	40.00	-5.43	1.50 V	91	22.03	12.54
3	167.94	34.49 QP	43.50	-9.01	1.50 V	127	20.58	13.91
4	202.94	36.57 QP	43.50	-6.93	1.00 V	151	25.17	11.39
5	370.15	33.60 QP	46.00	-12.40	1.00 V	325	16.66	16.94
6	537.36	33.81 QP	46.00	-12.19	1.50 V	7	12.80	21.01
7	603.47	33.31 QP	46.00	-12.69	1.00 V	331	10.77	22.54
8	665.68	33.20 QP	46.00	-12.80	1.00 V	199	9.42	23.78
9	947.60	34.90 QP	46.00	-11.10	1.00 V	169	6.62	28.28

REMARKS:

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



802.11b DSSS MODULATION

EUT TEST CONDITION	N	MEASUREMENT DETAIL			
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz		
MODULATION TYPE	DBPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
TRANSFER RATE	1.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)		
ENVIRONMENTAL CONDITIONS	26deg. C, 65% RH, 989hPa	TESTED BY	Dean Wang		

	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	2387.00	51.13 PK	74.00	-22.87	1.10 H	32	18.91	32.22			
2	2387.00	41.36 AV	54.00	-12.64	1.10 H	32	9.14	32.22			
3	*2412.00	97.08 PK			1.10 H	32	64.76	32.32			
4	*2412.00	92.81 AV			1.10 H	32	60.49	32.32			
5	4824.00	49.58 PK	74.00	-24.42	1.17 H	38	11.09	38.49			
6	4824.00	38.93 AV	54.00	-15.07	1.17 H	38	0.44	38.49			
7	7236.00	59.96 PK	74.00	-14.04	1.20 H	360	15.17	44.79			
8	7236.00	50.13 AV	54.00	-3.87	1.20 H	360	5.34	44.79			

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	2387.00	58.92 PK	74.00	-15.08	2.10 V	67	26.70	32.22			
2	2387.00	49.14 AV	54.00	-4.86	2.10 V	67	16.92	32.22			
3	*2412.00	106.43 PK			2.10 V	67	74.11	32.32			
4	*2412.00	102.14 AV			2.10 V	67	69.82	32.32			
5	4824.00	49.90 PK	74.00	-24.10	1.07 V	356	11.41	38.49			
6	4824.00	40.73 AV	54.00	-13.27	1.07 V	356	2.24	38.49			
7	7236.00	60.26 PK	74.00	-13.74	1.11 V	120	15.47	44.79			
8	7236.00	51.44 AV	54.00	-2.56	1.11 V	120	6.65	44.79			

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



EUT TEST CONDITION	N	MEASUREMENT DETAIL			
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz		
MODULATION TYPE	DBPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
TRANSFER RATE	1.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)		
ENVIRONMENTAL CONDITIONS	26deg. C, 65% RH, 989hPa	TESTED BY	Dean Wang		

	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	96.85 PK			1.11 H	34	64.44	32.41			
2	*2437.00	92.60 AV			1.11 H	34	60.19	32.41			
3	4874.00	50.61 PK	74.00	-23.39	1.13 H	224	11.92	38.69			
4	4874.00	39.98 AV	54.00	-14.02	1.13 H	224	1.29	38.69			
5	7311.00	59.86 PK	74.00	-14.14	1.23 H	58	14.89	44.97			
6	7311.00	51.34 AV	54.00	-2.66	1.23 H	58	6.37	44.97			

	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			2.08 V	70	73.84	32.41			
2	*2437.00	101.98 AV			2.08 V	70	69.57	32.41			
3	4874.00	50.86 PK	74.00	-23.14	1.05 V	236	12.17	38.69			
4	4874.00	41.61 AV	54.00	-12.39	1.05 V	236	2.92	38.69			
5	7311.00	59.04 PK	74.00	-14.96	1.11 V	29	14.07	44.97			
6	7311.00	50.82 AV	54.00	-3.18	1.11 V	29	5.85	44.97			

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



EUT TEST CONDITION	N	MEASUREMENT DETAIL			
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz		
MODULATION TYPE	DBPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
TRANSFER RATE	1.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)		
ENVIRONMENTAL CONDITIONS	26deg. C, 65% RH, 989hPa	TESTED BY	Dean Wang		

	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	96.85 PK			1.09 H	34	64.34	32.51				
2	*2462.00	92.60 AV			1.09 H	34	60.09	32.51				
3	2487.00	51.02 PK	74.00	-22.98	1.09 H	34	18.42	32.60				
4	2487.00	41.24 AV	54.00	-12.76	1.09 H	34	8.64	32.60				
5	4924.00	50.69 PK	74.00	-23.31	1.05 H	234	11.84	38.85				
6	4924.00	40.10 AV	54.00	-13.90	1.05 H	234	1.25	38.85				
7	7386.00	60.36 PK	74.00	-13.64	1.03 H	56	15.18	45.18				
8	7386.00	51.82 AV	54.00	-2.18	1.03 H	56	6.64	45.18				

	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	*2462.00	106.11 PK			2.14 V	83	73.60	32.51			
2	*2462.00	101.80 AV			2.14 V	83	69.29	32.51			
3	2487.00	60.69 PK	74.00	-13.31	2.14 V	83	28.09	32.60			
4	2487.00	50.35 AV	54.00	-3.65	2.14 V	83	17.75	32.60			
5	4924.00	51.98 PK	74.00	-22.02	1.08 V	256	13.13	38.85			
6	4924.00	42.84 AV	54.00	-11.16	1.08 V	256	3.99	38.85			
7	7386.00	60.16 PK	74.00	-13.84	1.08 V	41	14.98	45.18			
8	7386.00	51.92 AV	54.00	-2.08	1.08 V	41	6.74	45.18			

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



802.11g OFDM MODULATION

EUT TEST CONDITION	N	MEASUREMENT DETAIL			
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz		
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
TRANSFER RATE	6.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)		
ENVIRONMENTAL CONDITIONS	26deg. C, 65% RH, 989hPa	TESTED BY	Dean Wang		

	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	63.81 PK	74.00	-10.19	1.06 H	70	31.58	32.23				
2	2390.00	47.46 AV	54.00	-6.54	1.06 H	70	15.23	32.23				
3	*2412.00	103.10 PK			1.06 H	70	70.78	32.32				
4	*2412.00	93.64 AV			1.06 H	70	61.32	32.32				
5	4824.00	48.39 PK	74.00	-25.61	1.00 H	3	9.90	38.49				
6	4824.00	35.27 AV	54.00	-18.73	1.00 H	3	-3.22	38.49				

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	2390.00	69.20 PK	74.00	-4.80	1.77 V	15	36.97	32.23			
2	2390.00	52.62 AV	54.00	-1.38	1.77 V	15	20.39	32.23			
3	*2412.00	108.67 PK			1.75 V	16	76.35	32.32			
4	*2412.00	98.79 AV			1.75 V	16	66.47	32.32			
5	4824.00	48.51 PK	74.00	-25.49	1.11 V	1	10.02	38.49			
6	4824.00	35.34 AV	54.00	-18.66	1.11 V	1	-3.15	38.49			

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



EUT TEST CONDITION	N	MEASUREMENT DETAIL			
CHANNEL	Channel 6	FREQUENCY RANGE	1 ~ 25GHz		
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
TRANSFER RATE	6.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)		
ENVIRONMENTAL CONDITIONS	26deg. C, 65% RH, 989hPa	TESTED BY	Dean Wang		

	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	2370.00	60.48 PK	74.00	-13.52	1.43 H	39	28.33	32.15				
2	2370.00	45.67 AV	54.00	-8.33	1.43 H	39	13.52	32.15				
3	*2437.00	105.23 PK			1.10 H	56	72.82	32.41				
4	*2437.00	95.72 AV			1.10 H	56	63.31	32.41				
5	2490.00	61.89 PK	74.00	-12.11	1.00 H	22	29.28	32.61				
6	2490.00	46.23 AV	54.00	-7.77	1.00 H	22	13.62	32.61				
7	4874.00	49.45 PK	74.00	-24.55	1.00 H	58	10.76	38.69				
8	4874.00	36.36 AV	54.00	-17.64	1.00 H	58	-2.33	38.69				

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	2370.00	64.57 PK	74.00	-9.43	1.56 V	45	32.42	32.15			
2	2370.00	50.77 AV	54.00	-3.23	1.56 V	45	18.62	32.15			
3	*2437.00	110.78 PK			1.69 V	25	78.37	32.41			
4	*2437.00	100.91 AV			1.69 V	25	68.50	32.41			
5	2490.00	64.96 PK	74.00	-9.04	1.65 V	36	32.35	32.61			
6	2490.00	51.19 AV	54.00	-2.81	1.65 V	36	18.58	32.61			
7	4874.00	49.58 PK	74.00	-24.42	1.13 V	3	10.89	38.69			
8	4874.00	36.42 AV	54.00	-17.58	1.13 V	3	-2.27	38.69			

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



EUT TEST CONDITION	N	MEASUREMENT DETAIL			
CHANNEL	Channel 11 FREQUENCY RANGE		1 ~ 25GHz		
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
TRANSFER RATE	6.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)		
ENVIRONMENTAL CONDITIONS	26deg. C, 65% RH, 989hPa	TESTED BY	Dean Wang		

	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	103.53 PK			1.03 H	56	71.02	32.51				
2	*2462.00	93.65 AV			1.03 H	56	61.14	32.51				
3	2483.50	64.15 PK	74.00	-9.85	1.00 H	39	31.56	32.59				
4	2483.50	47.56 AV	54.00	-6.44	1.00 H	39	14.97	32.59				
5	4924.00	48.52 PK	74.00	-25.48	1.05 H	325	9.67	38.85				
6	4924.00	35.26 AV	54.00	-18.74	1.05 H	325	-3.59	38.85				

	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	108.79 PK			1.70 V	33	76.28	32.51			
2	*2462.00	98.84 AV			1.70 V	33	66.33	32.51			
3	2483.50	69.24 PK	74.00	-4.76	1.69 V	36	36.65	32.59			
4	2483.50	52.65 AV	54.00	-1.35	1.69 V	36	20.06	32.59			
5	4924.00	48.69 PK	74.00	-25.31	1.13 V	6	9.84	38.85			
6	4924.00	35.45 AV	54.00	-18.55	1.13 V	6	-3.40	38.85			

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



DRAFT 802.11n (20MHz) OFDM MODULATION

EUT TEST CONDITION	N	MEASUREMENT DETAIL			
CHANNEL	Channel 1 FREQUENCY RANGE		1 ~ 25GHz		
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
TRANSFER RATE	7.2Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)		
ENVIRONMENTAL CONDITIONS	26deg. C, 65% RH, 989hPa	TESTED BY	Dean Wang		

	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	63.25 PK	74.00	-10.75	1.52 H	65	31.02	32.23				
2	2390.00	46.89 AV	54.00	-7.11	1.52 H	65	14.66	32.23				
3	*2412.00	105.58 PK			1.03 H	56	73.26	32.32				
4	*2412.00	95.95 AV			1.03 H	56	63.63	32.32				
5	4824.00	48.45 PK	74.00	-25.55	1.00 H	5	9.96	38.49				
6	4824.00	35.39 AV	54.00	-18.61	1.00 H	5	-3.10	38.49				

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	2390.00	69.15 PK	74.00	-4.85	1.72 V	28	36.92	32.23			
2	2390.00	52.14 AV	54.00	-1.86	1.72 V	28	19.91	32.23			
3	*2412.00	110.88 PK			1.73 V	19	78.56	32.32			
4	*2412.00	101.00 AV			1.73 V	19	68.68	32.32			
5	4824.00	48.69 PK	74.00	-25.31	1.09 V	35	10.20	38.49			
6	4824.00	35.48 AV	54.00	-18.52	1.09 V	35	-3.01	38.49			

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



EUT TEST CONDITION	N	MEASUREMENT DETAIL			
CHANNEL	Channel 6 FREQUENCY RANGE		1 ~ 25GHz		
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
TRANSFER RATE	7.2Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)		
ENVIRONMENTAL CONDITIONS	26deg. C, 65% RH, 989hPa	TESTED BY	Dean Wang		

	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	106.05 PK			1.05 H	85	73.64	32.41			
2	*2437.00	95.98 AV			1.05 H	85	63.57	32.41			
3	4874.00	49.56 PK	74.00	-24.44	1.09 H	52	10.87	38.69			
4	4874.00	36.43 AV	54.00	-17.57	1.09 H	52	-2.26	38.69			

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	*2437.00	112.01 PK			1.62 V	28	79.60	32.41			
2	*2437.00	102.11 AV			1.62 V	28	69.70	32.41			
3	4874.00	49.96 PK	74.00	-24.04	1.12 V	37	11.27	38.69			
4	4874.00	36.79 AV	54.00	-17.21	1.12 V	37	-1.90	38.69			

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



EUT TEST CONDITION	N	MEASUREMENT DETAIL			
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz		
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz		
TRANSFER RATE	7.2Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)		
ENVIRONMENTAL CONDITIONS	26deg. C, 65% RH, 989hPa	TESTED BY	Dean Wang		

	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	105.79 PK			1.05 H	65	73.28	32.51				
2	*2462.00	96.09 AV			1.05 H	65	63.58	32.51				
3	2483.50	63.33 PK	74.00	-10.67	1.36 H	25	30.74	32.59				
4	2483.50	46.95 AV	54.00	-7.05	1.36 H	25	14.36	32.59				
5	4924.00	48.55 PK	74.00	-25.45	1.00 H	8	9.70	38.85				
6	4924.00	35.38 AV	54.00	-18.62	1.00 H	8	-3.47	38.85				

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)			
1	*2462.00	111.03 PK			1.58 V	36	78.52	32.51			
2	*2462.00	101.23 AV			1.58 V	36	68.72	32.51			
3	2483.50	69.58 PK	74.00	-4.42	1.58 V	36	36.99	32.59			
4	2483.50	52.29 AV	54.00	-1.71	1.58 V	36	19.70	32.59			
5	4924.00	48.85 PK	74.00	-25.15	1.09 V	45	10.00	38.85			
6	4924.00	35.56 AV	54.00	-18.44	1.09 V	45	-3.29	38.85			

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



DRAFT 802.11n (40MHz) OFDM MODULATION

EUT TEST CONDITION	N	MEASUREMENT DETAIL		
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz	
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
TRANSFER RATE	15.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	26deg. C, 65% RH, 989hPa	TESTED BY	Dean Wang	

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	55.48 PK	74.00	-18.52	1.14 H	20	23.25	32.23
2	2390.00	43.36 AV	54.00	-10.64	1.14 H	20	11.13	32.23
3	*2422.00	96.01 PK			1.14 H	20	63.66	32.35
4	*2422.00	85.71 AV			1.14 H	20	53.36	32.35
5	4844.00	48.28 PK	74.00	-25.72	1.13 H	245	9.71	38.57
6	4844.00	35.04 AV	54.00	-18.96	1.13 H	245	-3.53	38.57

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	62.37 PK	74.00	-11.63	1.31 V	31	30.14	32.23
2	2390.00	50.14 AV	54.00	-3.86	1.31 V	31	17.91	32.23
3	*2422.00	103.84 PK			1.31 V	31	71.49	32.35
4	*2422.00	93.49 AV			1.31 V	31	61.14	32.35
5	4844.00	48.36 PK	74.00	-25.64	1.02 V	46	9.79	38.57
6	4844.00	35.16 AV	54.00	-18.84	1.02 V	46	-3.41	38.57

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



EUT TEST CONDITION	N	MEASUREMENT DETAIL		
CHANNEL	ANNEL Channel 4 FREQUENCY RANGE		1 ~ 25GHz	
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
TRANSFER RATE	15.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	26deg. C, 65% RH, 989hPa	TESTED BY	Dean Wang	

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	NO. FREQ. (MHz) EMISSION LEVEL (dBuV/m) LIMIT (dBuV/m) MARGIN (dB) ANTENNA HEIGHT (MM) TABLE ANGLE (Degree) CORRECTION FACTOR (dB/m)								
1	*2437.00	95.86 PK			1.15 H	18	63.45	32.41	
2	2 *2437.00 85.55 AV 1.15 H 18 53.14 32.41								
3	3 4874.00 48.96 PK 74.00 -25.04 1.08 H 255 10.27 38.69								
4	4874.00	35.81 AV	54.00	-18.19	1.08 H	255	-2.88	38.69	

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	NO. FREQ. (MHz) EMISSION LEVEL (dBuV/m) LIMIT (dBuV/m) MARGIN (dB) ANTENNA HEIGHT (Mm) TABLE ANGLE (Degree) (dBuV) FACTOR (dB/m)								
1	*2437.00	103.68 PK			1.30 V	32	71.27	32.41	
2	2 *2437.00 93.38 AV 1.30 V 32 60.97 32.41								
3	3 4874.00 49.03 PK 74.00 -24.97 1.13 V 259 10.34 38.69								
4	4874.00	35.94 AV	54.00	-18.06	1.13 V	259	-2.75	38.69	

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



EUT TEST CONDITION	N	MEASUREMENT DETAIL		
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 25GHz	
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz	
TRANSFER RATE	15.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)	
ENVIRONMENTAL CONDITIONS	26deg. C, 65% RH, 989hPa	TESTED BY	Dean Wang	

	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	95.88 PK			1.13 H	26	63.41	32.47
2	*2452.00	85.49 AV			1.13 H	26	53.02	32.47
3	2483.50	55.13 PK	74.00	-18.87	1.13 H	26	22.54	32.59
4	2483.50	43.06 AV	54.00	-10.94	1.13 H	26	10.47	32.59
5	4904.00	48.45 PK	74.00	-25.55	1.13 H	66	9.64	38.81
6	4904.00	35.20 AV	54.00	-18.80	1.13 H	66	-3.61	38.81

	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	103.65 PK			1.31 V	34	71.18	32.47
2	*2452.00	93.36 AV			1.31 V	34	60.89	32.47
3	2483.50	62.14 PK	74.00	-11.86	1.31 V	34	29.55	32.59
4	2483.50	50.06 AV	54.00	-3.94	1.31 V	34	17.47	32.59
5	4904.00	49.38 PK	74.00	-24.62	1.14 V	25	10.57	38.81
6	4904.00	36.22 AV	54.00	-17.78	1.14 V	25	-2.59	38.81

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



4.3 6dB BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
SPECTRUM ANALYZER	FSP40	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

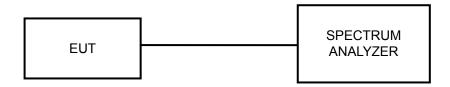
The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 100kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation



4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITIONS

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

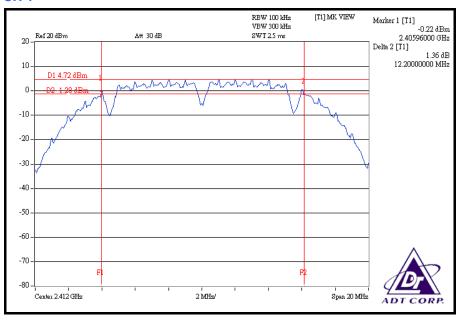


4.3.7 TEST RESULTS

802.11b DSSS MODULATION

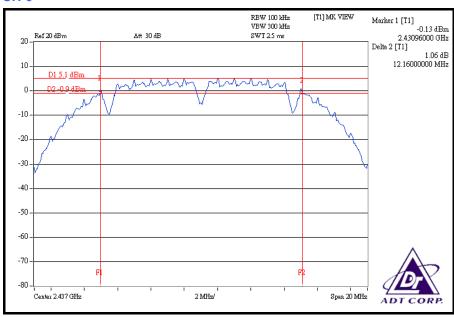
MODULATION TYPE	DBPSK	TRANSFER RATE	1.0Mbps
INPUT POWER (SYSTEM)	120Vac 60 Hz		27deg.C, 65% RH, 991hPa
TESTED BY	Match Tsui		

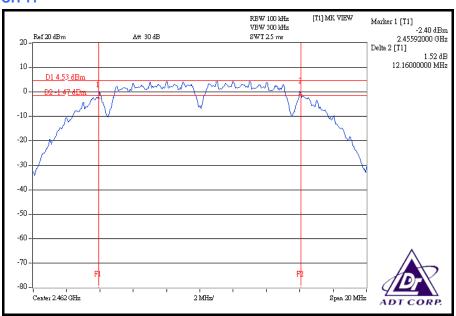
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	12.20	0.5	PASS
6	2437	12.16	0.5	PASS
11	2462	12.16	0.5	PASS





CH 6



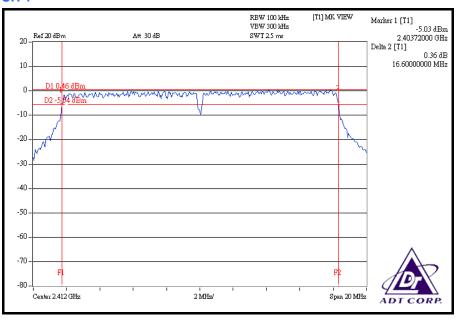




802.11g OFDM MODULATION

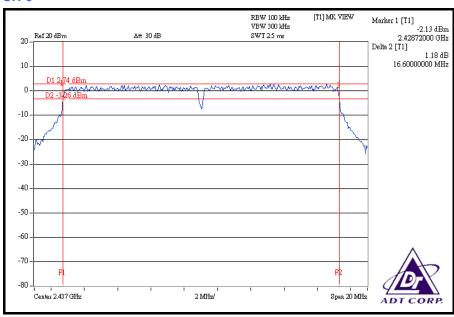
MODULATION TYPE	BPSK	TRANSFER RATE	6.0Mbps
INPUT POWER (SYSTEM)	120Vac 60 Hz		27deg.C, 65% RH, 991hPa
TESTED BY	Match Tsui		

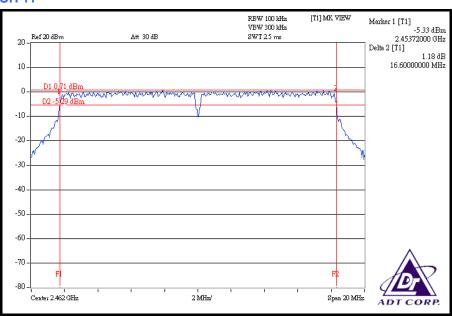
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	16.60	0.5	PASS
6	2437	16.60	0.5	PASS
11	2462	16.60	0.5	PASS





CH 6





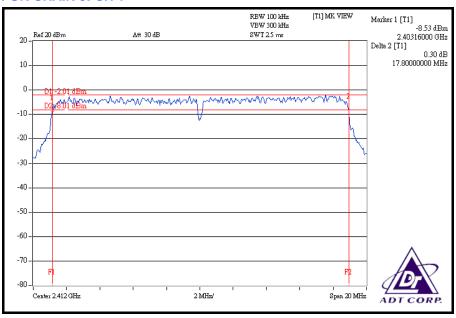


DRAFT 802.11n (20MHz) OFDM MODULATION

MODULATION TYPE	BPSK	TRANSFER RATE	7.2Mbps
INPUT POWER (SYSTEM)	120Vac 60 Hz		27deg.C, 65% RH, 991hPa
TESTED BY	Match Tsui		

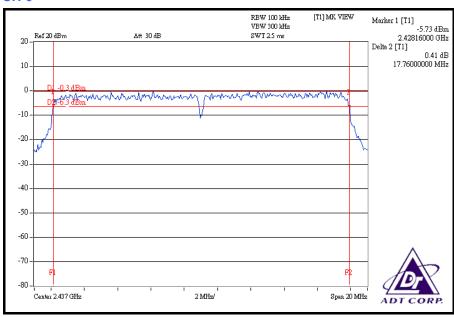
CHANNEL	CHANNEL FREQUENCY	6dB BANDWIDTH (MHz) MINIMUM		• •		PASS / FAIL
	(MHz)	CHAIN 0	CHAIN 1	LIMIT (MHz)		
1	2412	17.80	17.72	0.5	PASS	
6	2437	17.76	17.72	0.5	PASS	
11	2462	17.72	17.76	0.5	PASS	

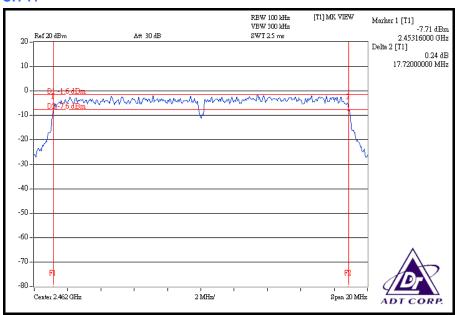
FOR CHAIN 0: CH 1





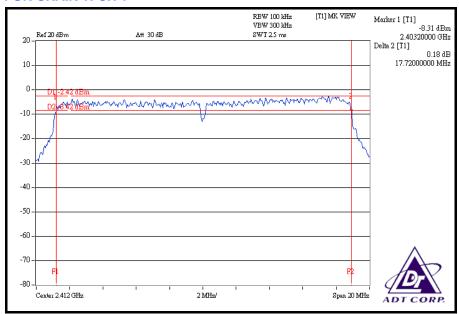
CH 6

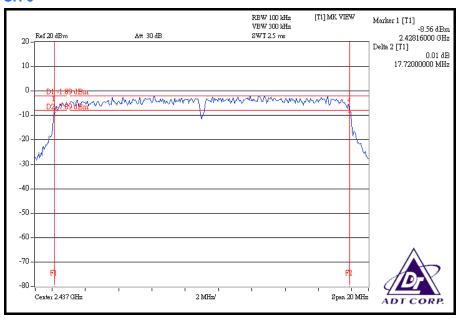




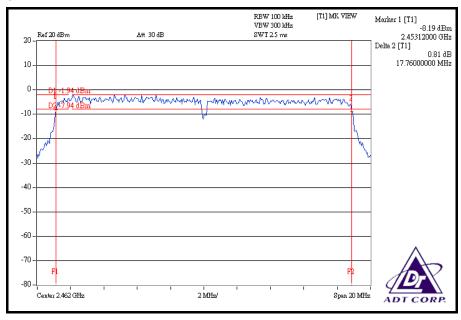


FOR CHAIN 1: CH 1









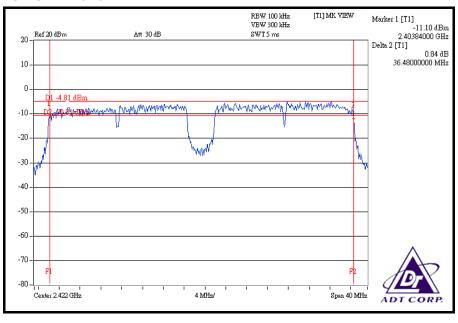


DRAFT 802.11n (40MHz) OFDM MODULATION

MODULATION TYPE	BPSK	TRANSFER RATE	15.0Mbps
INPUT POWER (SYSTEM)	120Vac 60 Hz		27deg.C, 65% RH, 991hPa
TESTED BY	Match Tsui		

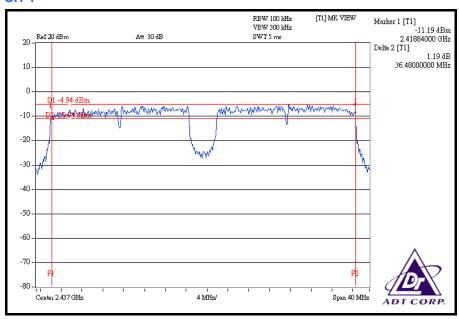
CHANNEL	CHANNEL FREQUENCY	6dB BANDWIDTH (MHz)		MINIMUM	PASS / FAIL
	(MHz)	CHAIN 0	CHAIN 1	LIMIT (MHz)	
1	2422	36.48	36.08	0.5	PASS
4	2437	36.48	36.48	0.5	PASS
7	2452	36.24	36.48	0.5	PASS

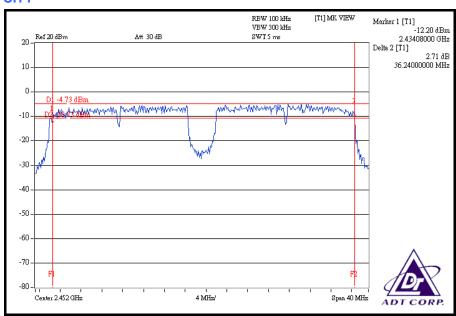
FOR CHAIN 0: CH 1





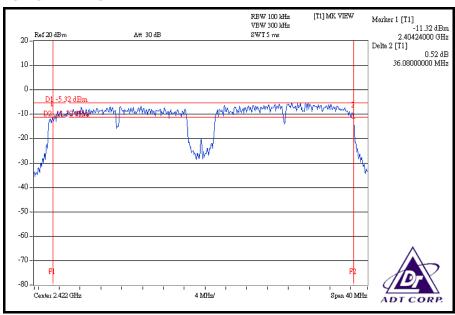
CH 4

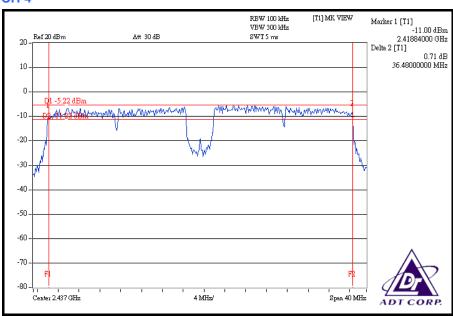




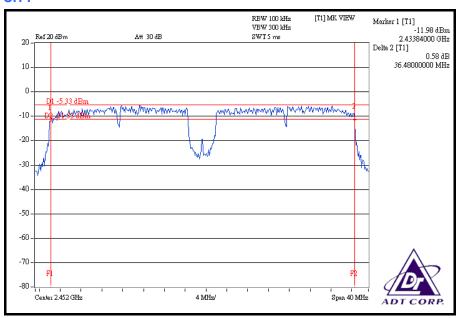


FOR CHAIN 1: CH 1











4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSP 40	100040	Jun. 28, 2008
AGILENT SYNTHESIZED SIGNAL GENERATOR	E8257C	MY43320668	Dec. 28, 2007
DIGITAL RT OSCILLOSCOPE	TDS1012	C037299	Nov. 28, 2007
NARDA DETECTOR	4503A	FSCM99899	NA

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

4.4.3 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

MODULATION TYPE	DBPSK	TRANSFER RATE	1.0Mbps
INPUT POWER (SYSTEM)	120Vac 60 Hz		27deg.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	63.387	18.02	30	PASS
6	2437	63.241	18.01	30	PASS
11	2462	63.973	18.06	30	PASS

802.11g OFDM MODULATION

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

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
1	2412	64.121	18.07	30	PASS
6	2437	100.231	20.01	30	PASS
11	2462	63.826	18.05	30	PASS



DRAFT 802.11n (20MHz) OFDM MODULATION

MODULATION TYPE	BPSK	TRANSFER RATE	7.2Mbps
INPUT POWER (SYSTEM)	120Vac 60 Hz		27deg.C, 65% RH, 991hPa
TESTED BY	Match Tsui		

CHAN.	CHANNEL FREQUENCY	PEAK POWER OUTPUT (mW)		PEAK POWER OUTPUT (dBm)		TOTAL PEAK	TOTAL PEAK POWER	PEAK POWER LIMIT	PASS /
	(MHz)	CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1	POWER (mW)	(dBm)	(dBm)	FAIL
1	2412	35.645	36.141	15.52	15.58	71.786	18.56	30	PASS
6	2437	44.875	46.132	16.52	16.64	91.007	19.59	30	PASS
11	2462	35.810	35.645	15.54	15.52	71.455	18.54	30	PASS

DRAFT 802.11n (40MHz) OFDM MODULATION

MODULATION TYPE	BPSK	TRANSFER RATE	15.0Mbps
INPUT POWER (SYSTEM)	120Vac 60 Hz		27deg.C, 65% RH, 991hPa
TESTED BY	Match Tsui		

CHAN.	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)		PEAK POWER OUTPUT (dBm)		TOTAL PEAK	TOTAL PEAK	PEAK POWER	PASS /
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1	POWER (mW)	(dBm)	LIMIT (dBm)	FAIL
1	2422	28.314	28.445	14.52	14.54	56.759	17.54	30	PASS
4	2437	28.774	28.510	14.59	14.55	57.284	17.58	30	PASS
7	2452	28.314	28.840	14.52	14.60	57.154	17.57	30	PASS



4.5 POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSP 40	100040	Jun. 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.

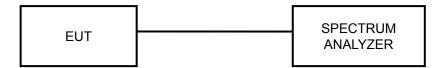
The sweep time is allowed to be longer than span/3kHz for a full response of the mixer in the spectrum analyzer.

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



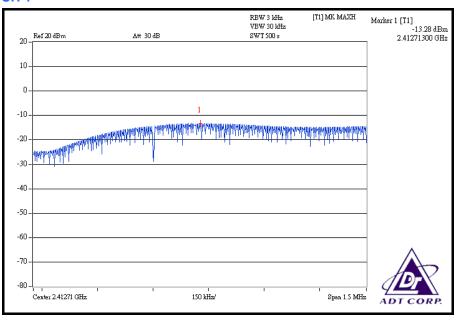
4.5.7 TEST RESULTS

802.11b DSSS MODULATION

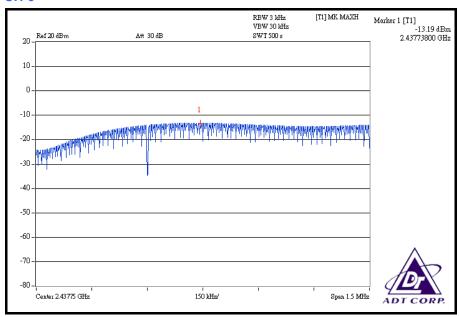
MODULATION TYPE	DBPSK	TRANSFER RATE	1.0Mbps
INPUT POWER (SYSTEM)	120Vac 60 Hz		27deg.C, 65% RH, 991hPa
TESTED BY	Match Tsui		

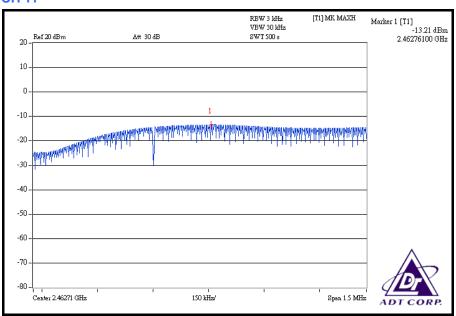
CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS / FAIL	
1	2412	-13.28	8	PASS	
6	2437	-13.19	8	PASS	
11	2462	-13.21	8	PASS	

CH₁









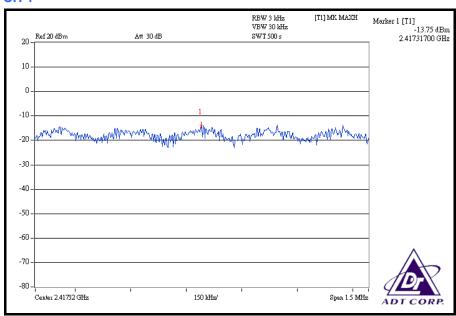


802.11g OFDM MODULATION

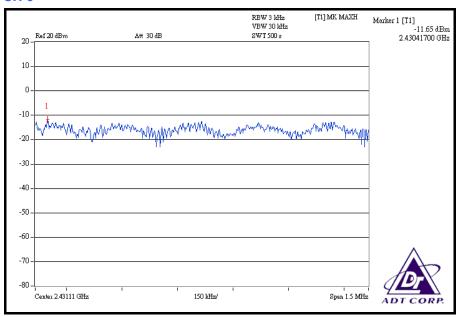
MODULATION TYPE	BPSK	TRANSFER RATE	6.0Mbps
INPUT POWER (SYSTEM)	120\/ac 60 Hz		27deg.C, 65% RH, 991hPa
TESTED BY	Match Tsui		

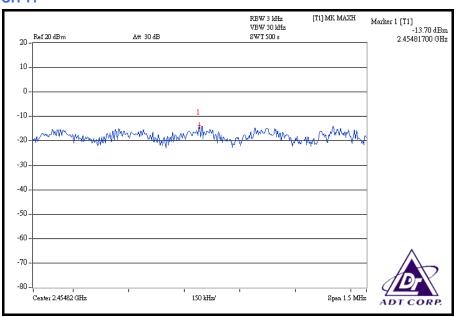
CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS / FAIL
1	2412	-13.75	8	PASS
6	2437	-11.65	8	PASS
11	2462	-13.70	8	PASS

CH₁









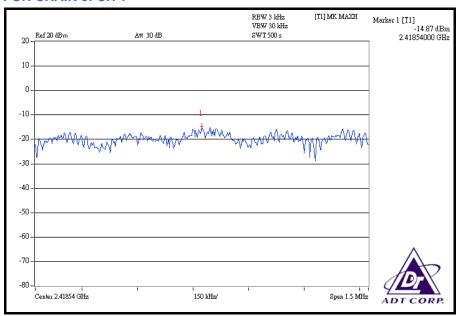


DRAFT 802.11n (20MHz) OFDM MODULATION

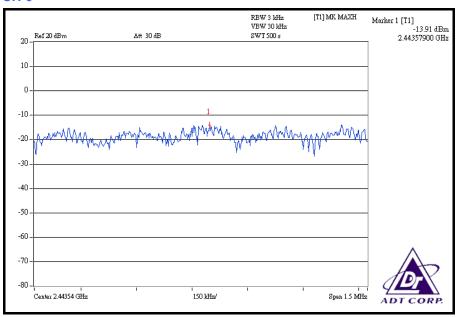
MODULATION TYPE	BPSK	TRANSFER RATE	7.2Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz		27deg.C, 65% RH, 991hPa
TESTED BY	Match Tsui		

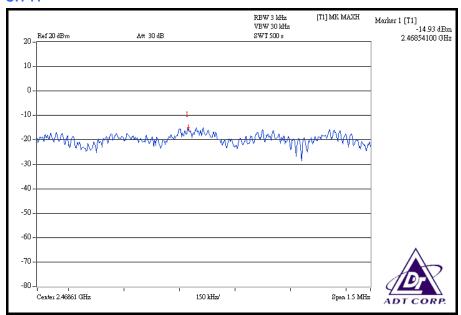
CHANNEL	CHANNEL FREQUENCY	_	_		IN 3kHz BW (dBm) POWER POWER		MAX. LIMIT	PASS /	
	(MHz)	CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1	(mW)	(dBm)	(dBm)	FAIL
1	2412	0.033	0.028	-14.87	-15.53	0.061	-12.18	8	PASS
6	2437	0.041	0.035	-13.91	-14.59	0.076	-11.23	8	PASS
11	2462	0.032	0.027	-14.93	-15.65	0.059	-12.26	8	PASS

FOR CHAIN 0: CH 1



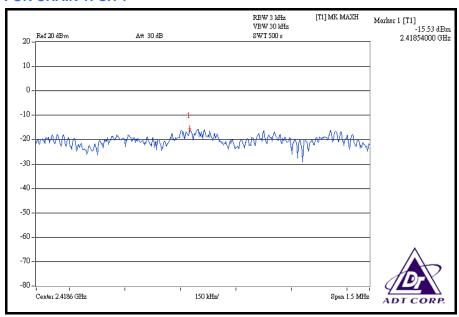


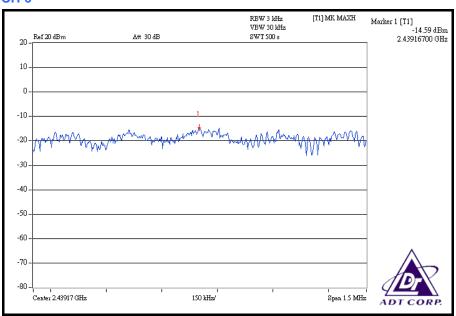




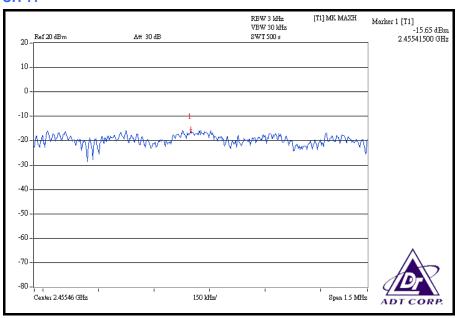


FOR CHAIN 1: CH 1









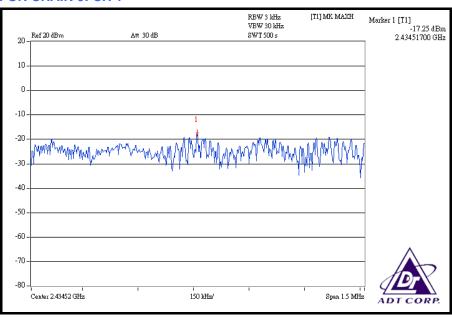


DRAFT 802.11n (40MHz) OFDM MODULATION

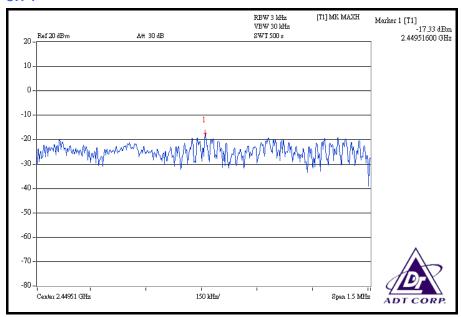
MODULATION TYPE	BPSK	TRANSFER RATE	15.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	27deg.C, 65% RH, 991hPa
TESTED BY	Match Tsui		

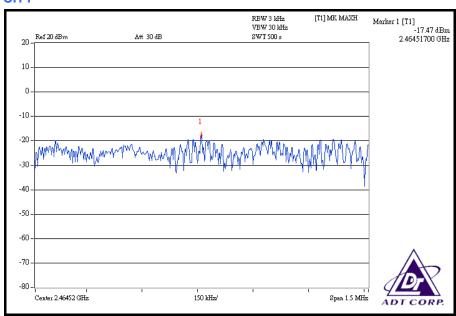
CHANNEL	CHANNEL FREQUENCY	_		IN 3kHz BW (dBm) POWER POWER I IMIT		W (mW) IN 3kHz BW (dBm) POWER POWER		N 3kHz BW (dBm) POWER POWER MAX.		3kHz BW (dBm) POWER POWE			PASS /
	(MHz)	CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1	(mW)	(mW) (dBm)	(dBm)	FAIL				
1	2422	0.019	0.018	-17.25	-17.35	0.037	-14.29	8	PASS				
4	2437	0.018	0.018	-17.33	-17.40	0.036	-14.35	8	PASS				
7	2452	0.018	0.019	-17.47	-17.19	0.037	-14.32	8	PASS				

FOR CHAIN 0: CH 1



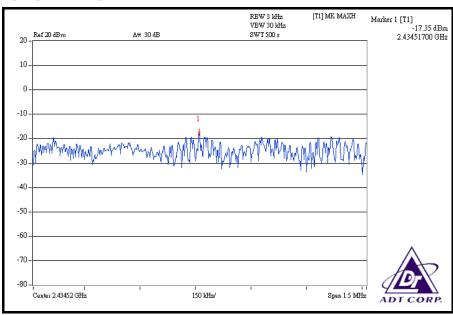


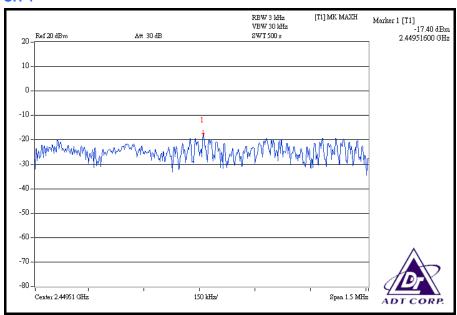




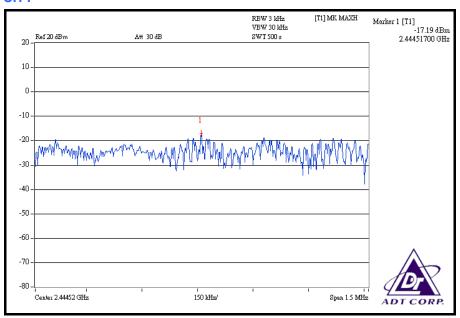


FOR CHAIN 1: CH 1











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			
802.11b, 802.11g:						
R&S SPECTRUM ANALYZER	FSP40	100040	Jun. 28, 2008			
DRAFT 802.11n (20MHz), DRAF	T 802.11n (40MHz):					
Test Receiver ROHDE & SCHWARZ	ESCI	100424	Aug. 04, 2007			
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100025	Oct. 05, 2007			
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	May 31, 2008			
HORN Antenna SCHWARZBECK	9120D	9120D-209	Jun. 28, 2008			
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170243	Dec. 28, 2007			
Preamplifier Agilent	8447D	2944A10633	Oct. 26, 2007			
Preamplifier Agilent	8449B	3008A01964	Oct. 26, 2007			
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	238137/4	Dec. 11, 2007			
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	233233/4	Nov. 14, 2007			
Software ADT.	ADT_Radiated_V7.6	NA	NA			
Antenna Tower inn-co GmbH	MA 4000	013303	NA			
Antenna Tower Controller inn-co GmbH	CO2000	017303	NA			
Turn Table ADT.	TT100.	TT93021703	NA			
Turn Table Controller ADT.	SC100.	SC93021703	NA			

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



4.6.3 TEST PROCEDURE

For Single TX:

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100kHz and 300kHz 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.

For Dual TX:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter 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. Set both RBW and VBW of spectrum analyzer to 100kHz and 300kHz with suitable frequency span including 100MHz bandwidth from band edge. The band edges was measured and recorded.

The spectrum plots (Peak RBW = 100kHz, VBW = 300kHz; Average RBW = 1MHz, VBW = 10Hz)

NOTE: The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.

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

NOTE 1:

The band edge emission plot on the next page shows 50.65 dBc between carrier maximum power and local maximum emission in restrict band (2.38640 GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 106.43 dBuV/m (Peak), so the maximum field strength in restrict band is 106.43 - 50.65 = 55.78 dBuV/m which is under 74 dBuV/m limit.

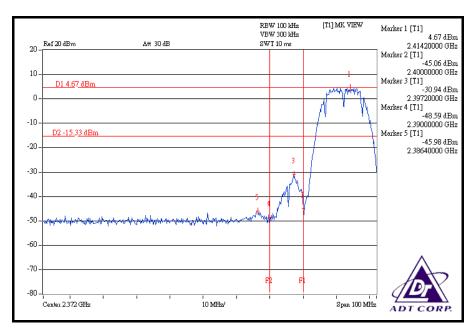
The band edge emission plot on the next page shows 54.46dBc between carrier maximum power and local maximum emission in restrict band (2.38640GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 102.14dBuV/m (Average), so the maximum field strength in restrict band is 102.14 - 54.46 = 47.68dBuV/m which is under 54dBuV/m limit.

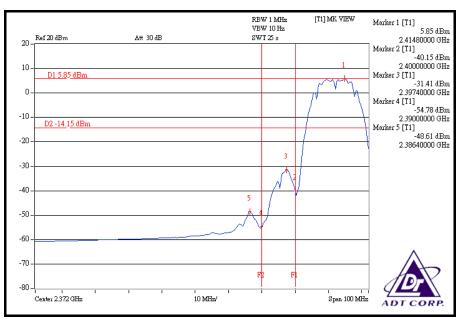
NOTE 2:

The band edge emission plot on the next second page shows 47.00 dBc between carrier maximum power and local maximum emission in restrict band (2.48660 GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 106.11 dBuV/m (Peak), so the maximum field strength in restrict band is 106.11 - 47.00 = 59.11 dBuV/m which is under 74 dBuV/m limit.

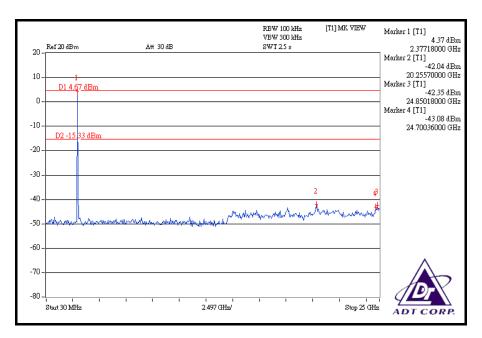
The band edge emission plot on the next third page shows 51.97 dBc between carrier maximum power and local maximum emission in restrict band (2.48760 GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 101.80 dBuV/m (Average), so the maximum field strength in restrict band is 101.80 - 51.97 = 49.83 dBuV/m which is under 54 dBuV/m limit.

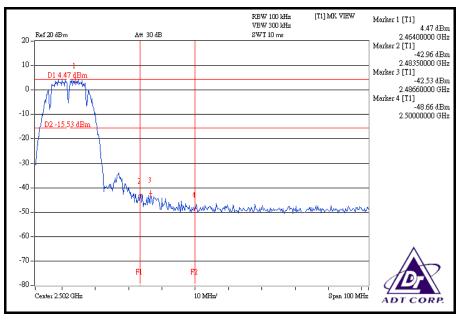




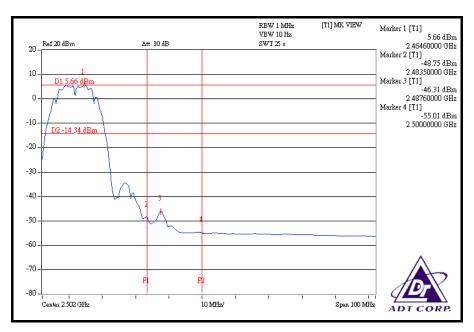


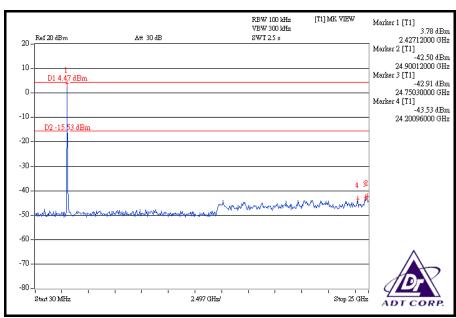














802.11g OFDM MODULATION

NOTE 1:

The band edge emission plot on the next page shows 38.19 dBc between carrier maximum power and local maximum emission in restrict band (2.38900 GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 108.67 dBuV/m (Peak), so the maximum field strength in restrict band is 108.67 - 38.19 = 70.48 dBuV/m which is under 74 dBuV/m limit.

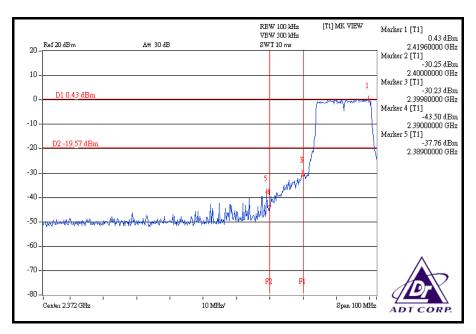
The band edge emission plot on the next page shows 48.72 dBc between carrier maximum power and local maximum emission in restrict band (2.39000 GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 98.79 dBuV/m (Average), so the maximum field strength in restrict band is 98.79 - 48.72 = 50.07 dBuV/m which is under 54 dBuV/m limit.

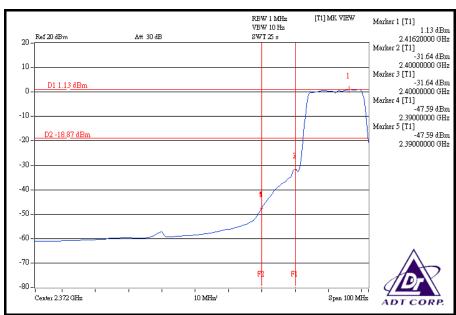
NOTE 2:

The band edge emission plot on the next second page shows 39.53 dBc between carrier maximum power and local maximum emission in restrict band (2.48720 GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 108.79 dBuV/m (Peak), so the maximum field strength in restrict band is 108.79 - 39.53 = 69.26 dBuV/m which is under 74 dBuV/m limit.

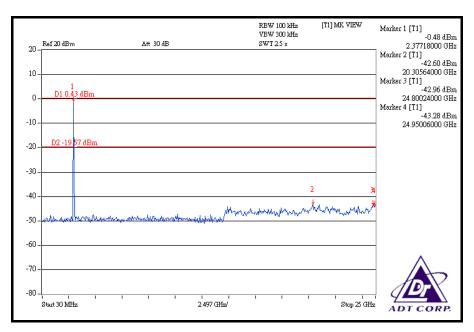
The band edge emission plot on the next third page shows 47.55 dBc between carrier maximum power and local maximum emission in restrict band (2.48350 GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 98.84 dBuV/m (Average), so the maximum field strength in restrict band is 98.84 - 47.55 = 51.29 dBuV/m which is under 54 dBuV/m limit.

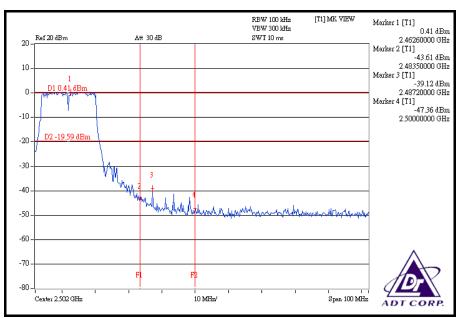




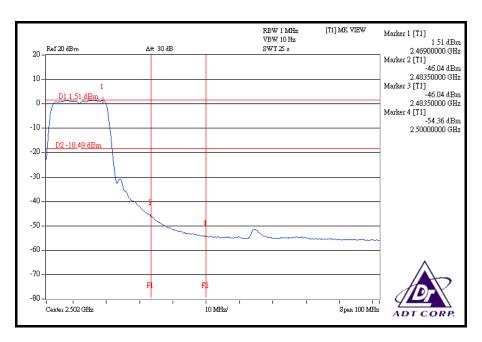


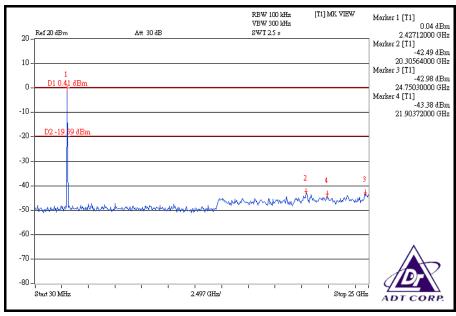














DRAFT 802.11n (20MHz) OFDM MODULATION

NOTE 1:

The band edge emission plot on the next page shows 43.23 dBc between carrier maximum power and local maximum emission in restrict band (2.39000 GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 110.88 dBuV/m (Peak), so the maximum field strength in restrict band is 110.88 - 43.23 = 67.65 dBuV/m which is under 74 dBuV/m limit.

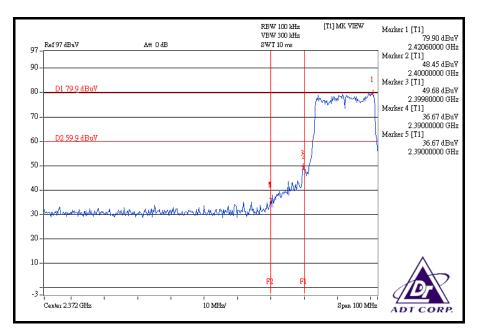
The band edge emission plot on the next page shows 48.99 dBc between carrier maximum power and local maximum emission in restrict band (2.39000 GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 101.00 dBuV/m (Average), so the maximum field strength in restrict band is 101.00 - 48.99 = 52.01 dBuV/m which is under 54 dBuV/m limit.

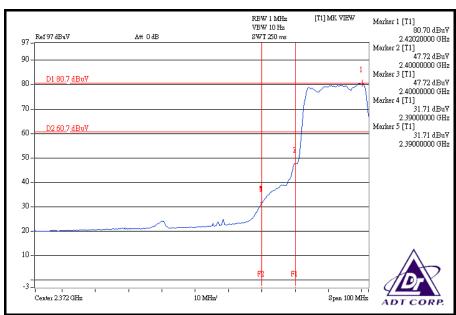
NOTE 2:

The band edge emission plot on the next second page shows 43.92dBc 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 11 at the item 4.2.7 is 111.03dBuV/m (Peak), so the maximum field strength in restrict band is 111.03 - 43.92 = 67.11dBuV/m which is under 74dBuV/m limit.

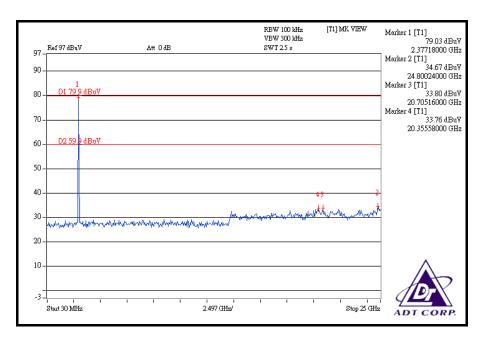
The band edge emission plot on the next third page shows 49.02 dBc between carrier maximum power and local maximum emission in restrict band (2.48350 GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 101.23 dBuV/m (Average), so the maximum field strength in restrict band is 101.23 - 49.02 = 52.21 dBuV/m which is under 54 dBuV/m limit.

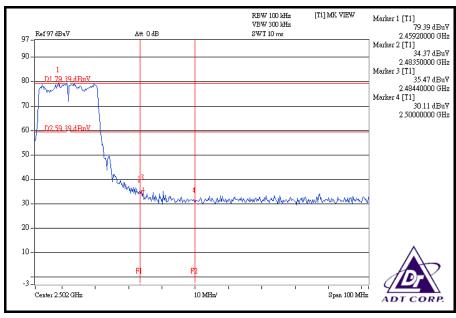




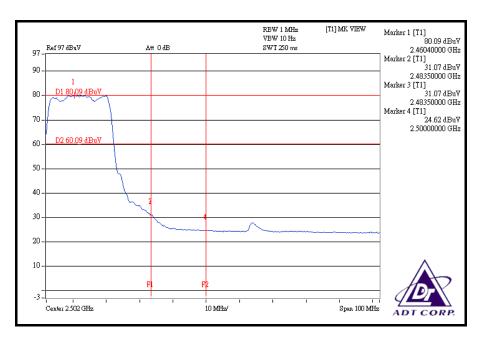


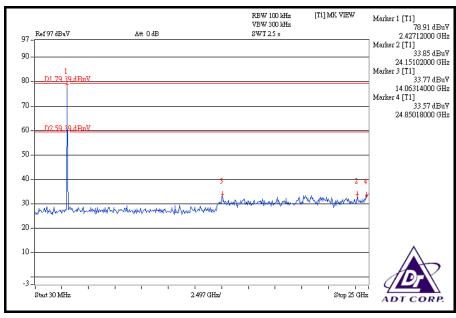














DRAFT 802.11n (40MHz) OFDM MODULATION

NOTE 1:

The band edge emission plot on the next page shows 39.33 dBc between carrier maximum power and local maximum emission in restrict band (2.38680 GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 103.84 dBuV/m (Peak), so the maximum field strength in restrict band is 103.84 - 39.33 = 64.51 dBuV/m which is under 74 dBuV/m limit.

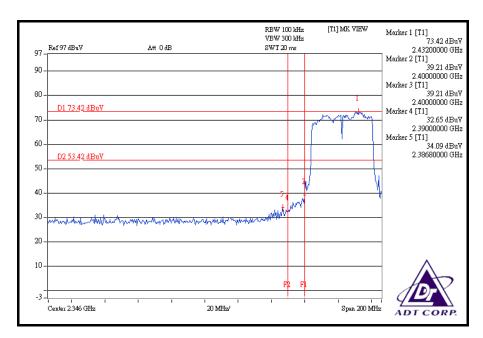
The band edge emission plot on the next page shows 43.58 dBc between carrier maximum power and local maximum emission in restrict band (2.39000 GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 93.49 dBuV/m (Average), so the maximum field strength in restrict band is 93.49 - 43.58 = 49.91m which is under 54 dBuV/m limit.

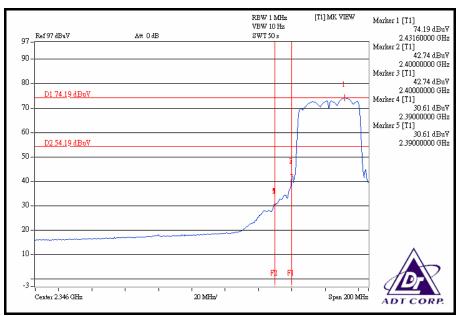
NOTE 2:

The band edge emission plot on the next second page shows 38.94dBc between carrier maximum power and local maximum emission in restrict band (2.48360GHz). The emission of carrier strength list in the test result of channel 7 at the item 4.2.7 is 103.65dBuV/m (Peak), so the maximum field strength in restrict band is 103.65 - 38.94 = 64.71dBuV/m which is under 74dBuV/m limit.

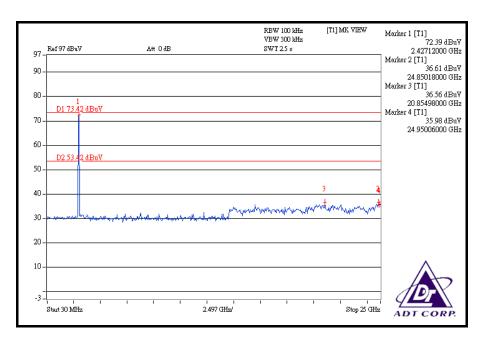
The band edge emission plot on the next third page shows 43.63dBc between carrier maximum power and local maximum emission in restrict band (2.48360GHz). The emission of carrier strength list in the test result of channel 7 at the item 4.2.7 is 93.36dBuV/m (Average), so the maximum field strength in restrict band is 93.36 - 43.63 = 49.73dBuV/m which is under 54dBuV/m limit.

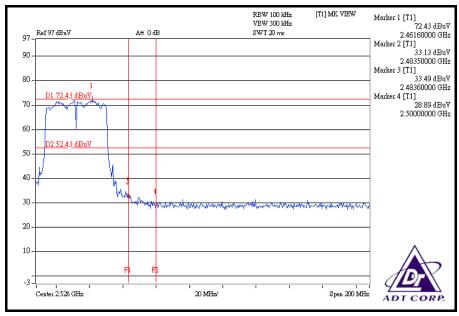




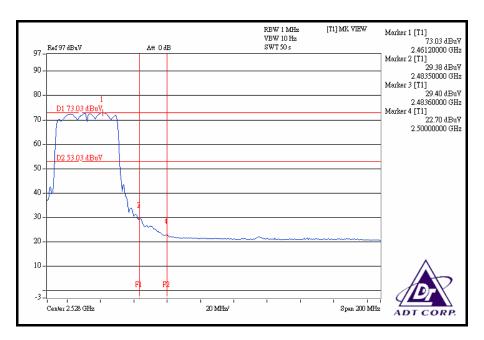


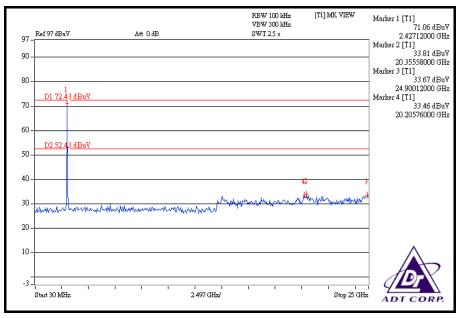














4.7 ANTENNA REQUIREMENT

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 Swivel type dipole antenna with Reverse SMA connector. The maximum Gain of the antenna is 0.84dBi.



	ADT CORP.
5. PHOTOGRAPHS OF THE TEST CONFIGURATION	
Please refer to the attached file (Test Setup Photo).	

Report No.: RF960702L11A Reference No.: 961123L07



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 PSB , GOST-ASIA(MOU)

Russia CERTIS(MOU)

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

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

Linko EMC/RF Lab: Hsin Chu EMC/RF Lab:

Tel: 886-2-26052180 Tel: 886-3-5935343 Fax: 886-2-26051924 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.					

Report No.: RF960702L11A Reference No.: 961123L07