



FCC TEST REPORT

REPORT NO.: RF960622L22A

MODEL NO.: MXP802NRTR

RECEIVED: Jun. 23, 2007

TESTED: Jun. 26 ~ Jun. 28, 2007

ISSUED: Nov. 13, 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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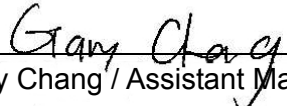
1. CERTIFICATION

PRODUCT: Wireless-N Broadband AP/Router
MODEL: MXP802NRTR
BRAND: MaxPower
APPLICANT: Newer Technology, Inc.
TESTED: Jun. 26 ~ Jun. 28, 2007
TEST SAMPLE: ENGINEERING SAMPLE
STANDARDS: FCC Part 15, Subpart C (Section 15.247)
ANSI C63.4-2003

The above equipment (model: MXP802NRTR) has been tested by **Advance Data Technology Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY :  _____, **DATE:** Nov. 13, 2007
Joanna Wang / Senior Specialist

TECHNICAL ACCEPTANCE :  _____, **DATE:** Nov. 13, 2007
Responsible for RF Long Chen / Senior Engineer

APPROVED BY :  _____, **DATE:** Nov. 13, 2007
Gary Chang / Assistant Manager

2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -4.44 dB at 0.170 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 -1.11 dB at 595.69 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	2.44dB
Radiated emissions	30MHz ~ 200MHz	3.19 dB
	200MHz ~1000MHz	3.21 dB
	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Wireless-N Broadband AP/Router
MODEL NO.	MXP802NRTR
FCC ID	UNH-MXP802NRTR
POWER SUPPLY	12Vdc from AC adapter
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b: 11.0/ 5.5/ 2.0/ 1.0Mbps 802.11g: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps Draft 802.11n (20MHz): 144.44/ 130.00/ 115.56/ 86.67/ 57.78/ 43.33/ 28.89/ 14.44/ 72.2/ 65.0/ 57.8/ 43.3/ 28.9/ 21.7/ 14.4/ 7.2Mbps Draft 802.11n (40MHz): 300.0/ 270.0/ 240.0/ 180.0/ 120.0/ 90.0/ 60.0/ 30.0/ 150.0/ 135.0/ 120.0/ 90.0/ 60.0/ 45.0/ 30.0/ 15.0Mbps
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11 for 802.11b, 802.11g, Draft 802.11n (20MHz) 7 for Draft 802.11n (40MHz)
MAXIMUM OUTPUT POWER	114.288mW
ANTENNA TYPE	Dipole antenna with 1.75dBi gain
DATA CABLE	NA
I/O PORTS	RJ45
ASSOCIATED DEVICES	Adapter

NOTE:

1. This is a duplicate report of RF960622L22, the difference are changing the applicant, model name and brand name.
2. The EUT was powered by the following adapter:

BRAND:	UNIFIVE CO., LTD.
MODEL:	UIT312-1210
INPUT:	100-240Vac, 50/60Hz, 0.3A
OUTPUT:	12Vdc, 1A
POWER LINE:	1.8m non-shielded cable with one core

3. The EUT incorporates a MIMO function with 802.11b, 802.11g, draft 802.11n. Physically, the card provides two completed transmitters and three receivers.

4. The EUT is 2 * 3 spatial MIMO (2Tx & 3Rx) without beam forming function.
5. When the EUT operating in 802.11b/g, the software operation, which is defined by manufacturer, only set single Tx.
6. When the EUT operating in draft 802.11n, the software operation, which is defined by manufacturer, only set 0 ~ 15 of "MCS" (MCS: Modulation and Coding Schemes) for dual Tx.
7. The EUT complies with draft 802.11n standards and backwards compatible with 802.11b, 802.11g products.
8. The EUT operates in the 2.4GHz frequency spectrum with throughput of up to 300Mbps.
9. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 DESCRIPTION OF TEST MODES

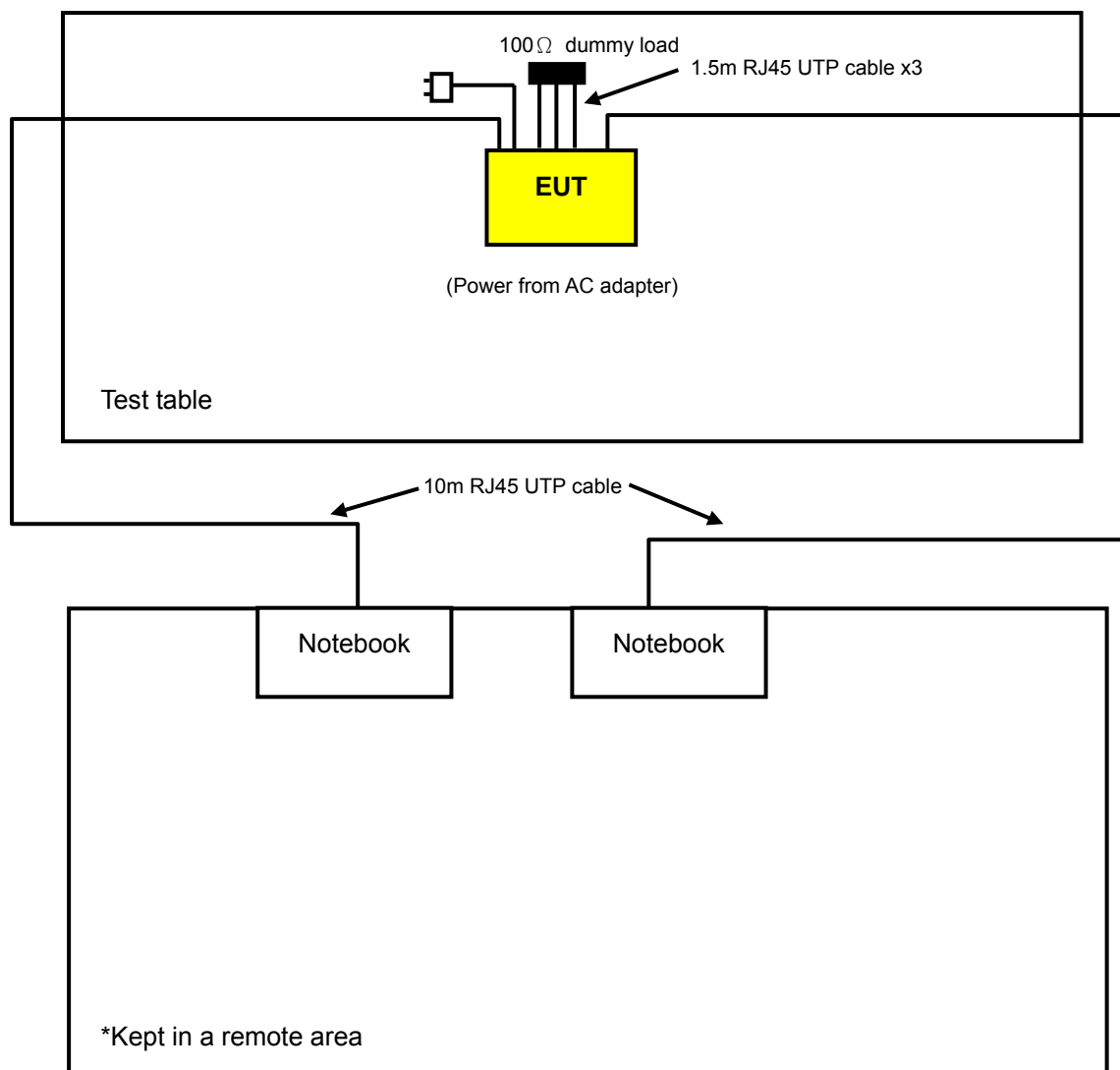
Eleven channels are provided for 802.11b, 802.11g and draft 802.11n (20MHz):

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

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

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

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST



3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

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

Where **PLC**: Power Line Conducted Emission **RE < 1G**: Radiated Emission below 1GHz
RE ≥ 1G: Radiated Emission above 1GHz **APCM**: Antenna Port Conducted Measurement

POWER LINE CONDUCTED EMISSION TEST:

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

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

BANDEDGE MEASUREMENT:

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

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

ANTENNA PORT CONDUCTED MEASUREMENT:

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

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



3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC Part 15, Subpart C. (15.247)

ANSI C63.4-2003

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

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

3.4 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK COMPUTER	DELL	PP05L	33898721680	E2K24CLNS
2	NOTEBOOK COMPUTER	DELL	PP05L	12130898320	E2K24CLNS

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

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



4. TEST TYPES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

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

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

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	100288	Sep. 25, 2007
RF signal cable Woken	5D-FB	Cable-HYCO3-01	Jan. 06, 2008
LISN ROHDE & SCHWARZ	ESH2-Z5	100100	Jan. 08, 2008
LISN ROHDE & SCHWARZ	ESH3-Z5	100311	Jan. 16, 2008
Software ADT	ADT_Cond_V3	NA	NA

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

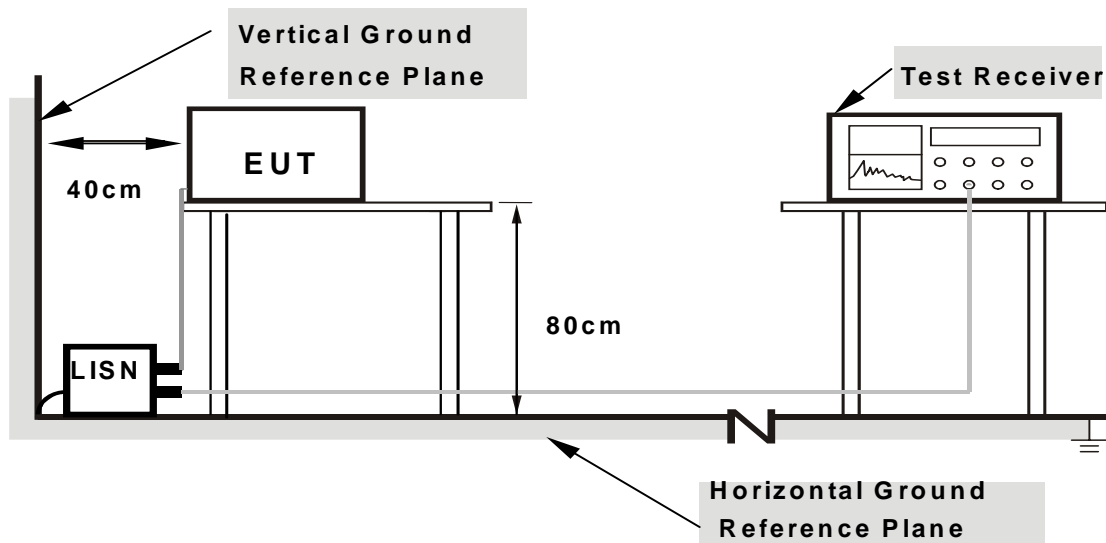
4.1.3 TEST PROCEDURES

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

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



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

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

4.1.6 EUT OPERATING CONDITIONS

- a. The EUT connected with notebook systems via a RJ45 cable.
- b. The notebook system ran a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
- c. The necessary accessories enable the system in full functions.

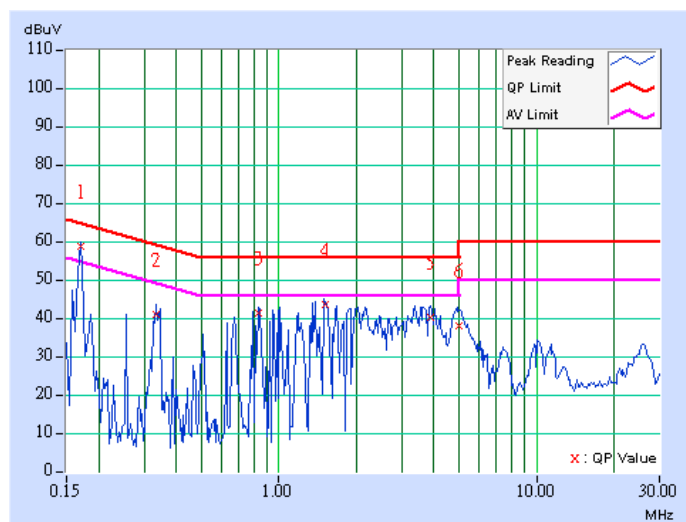
4.1.7 TEST RESULTS

CONDUCTED WORST-CASE DATA 802.11g OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60% RH, 991hPa	TESTED BY	Match Tsui

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	58.45	49.96	58.55	50.06	64.98	54.98	-6.43	-4.92
2	0.334	0.10	40.81	-	40.91	-	59.36	49.36	-18.45	-
3	0.838	0.11	41.22	-	41.33	-	56.00	46.00	-14.67	-
4	1.507	0.17	43.32	-	43.49	-	56.00	46.00	-12.51	-
5	3.879	0.28	39.97	-	40.25	-	56.00	46.00	-15.75	-
6	5.000	0.29	38.02	-	38.31	-	56.00	46.00	-17.69	-

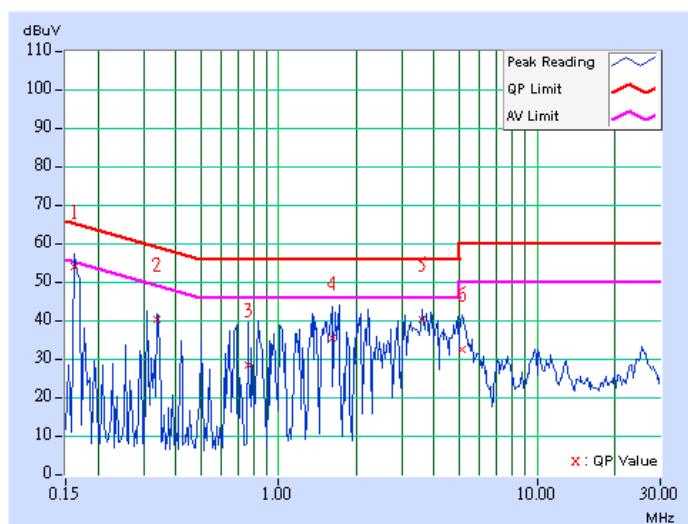
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60% RH, 991hPa	TESTED BY	Match Tsui

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.162	0.10	53.94	-	54.04	-	65.38	55.38	-11.34	-
2	0.338	0.10	40.18	-	40.28	-	59.26	49.26	-18.98	-
3	0.763	0.17	28.09	-	28.26	-	56.00	46.00	-27.74	-
4	1.605	0.22	35.08	-	35.30	-	56.00	46.00	-20.70	-
5	3.578	0.27	40.13	-	40.40	-	56.00	46.00	-15.60	-
6	5.117	0.31	32.32	-	32.63	-	60.00	50.00	-27.37	-

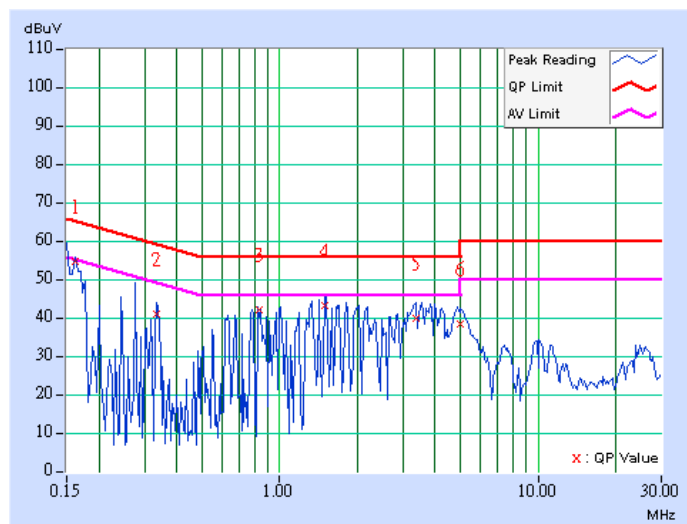
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60% RH, 991hPa	TESTED BY	Match Tsui

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.162	0.10	54.58	-	54.68	-	65.38
2	0.334	0.10	40.79	-	40.89	-	59.36	49.36	-18.47	-
3	0.837	0.11	41.79	-	41.90	-	56.00	46.00	-14.10	-
4	1.504	0.17	43.17	-	43.34	-	56.00	46.00	-12.66	-
5	3.379	0.26	39.82	-	40.08	-	56.00	46.00	-15.92	-
6	5.006	0.29	38.37	-	38.66	-	60.00	50.00	-21.34	-

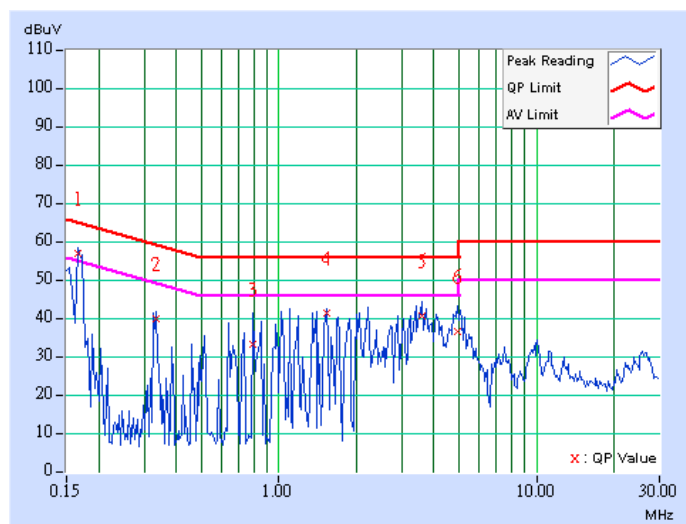
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60% RH, 991hPa	TESTED BY	Match Tsui

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.166	0.10	56.82	44.72	56.92	44.82	65.18
2	0.334	0.10	39.84	-	39.94	-	59.36	49.36	-19.42	-
3	0.791	0.17	33.05	-	33.22	-	56.00	46.00	-22.78	-
4	1.535	0.22	41.19	-	41.41	-	56.00	46.00	-14.59	-
5	3.574	0.27	40.49	-	40.76	-	56.00	46.00	-15.24	-
6	4.938	0.30	36.51	-	36.81	-	56.00	46.00	-19.19	-

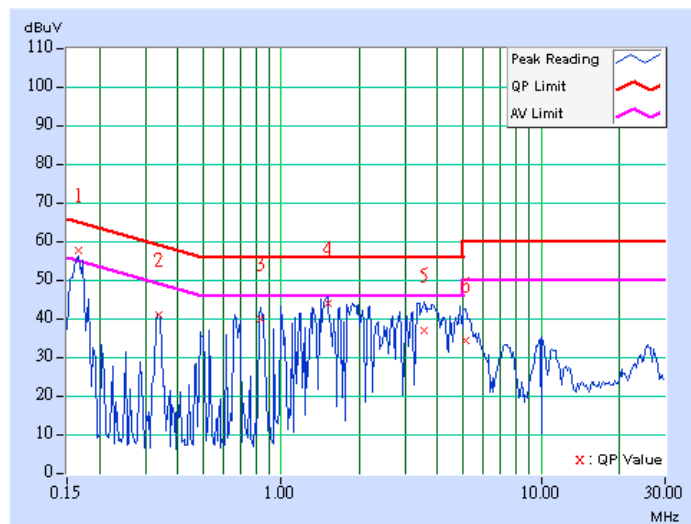
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60% RH, 991hPa	TESTED BY	Match Tsui

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.10	57.58	48.84	57.68	48.94	65.18	55.18	-7.50	-6.24
2	0.338	0.10	40.91	-	41.01	-	59.26	49.26	-18.25	-
3	0.830	0.11	39.57	-	39.68	-	56.00	46.00	-16.32	-
4	1.508	0.17	43.88	-	44.05	-	56.00	46.00	-11.95	-
5	3.566	0.27	36.86	-	37.13	-	56.00	46.00	-18.87	-
6	5.102	0.29	34.13	-	34.42	-	60.00	50.00	-25.58	-

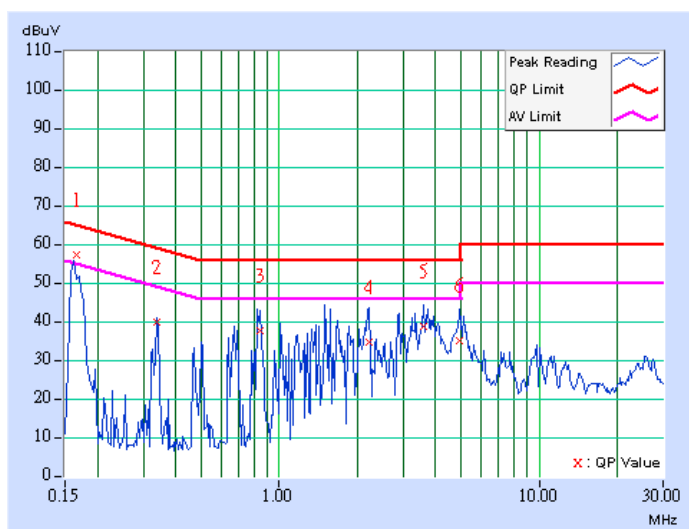
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60% RH, 991hPa	TESTED BY	Match Tsui

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.167	0.10	57.17	46.17	57.27	46.27	65.12	55.12	-7.85	-8.85
2	0.338	0.10	39.80	-	39.90	-	59.26	49.26	-19.36	-
3	0.846	0.18	37.58	-	37.76	-	56.00	46.00	-18.24	-
4	2.219	0.23	34.54	-	34.77	-	56.00	46.00	-21.23	-
5	3.578	0.27	38.77	-	39.04	-	56.00	46.00	-16.96	-
6	4.961	0.30	35.01	-	35.31	-	56.00	46.00	-20.69	-

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

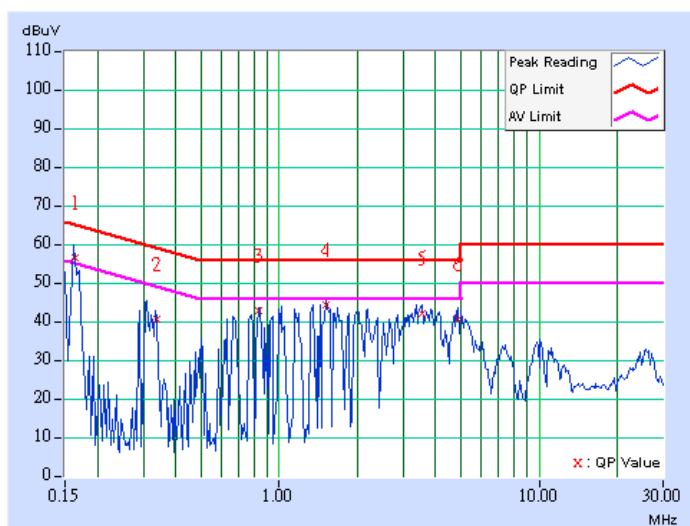


DRAFT 802.11n (20MHz) OFDM MODULATION

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

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.164	0.10	56.51	47.63	56.61	47.73	65.25	55.25	-8.64	-7.52
2	0.337	0.10	40.48	-	40.58	-	59.28	49.28	-18.70	-
3	0.837	0.11	42.50	-	42.61	-	56.00	46.00	-13.39	-
4	1.508	0.17	44.29	-	44.46	-	56.00	46.00	-11.54	-
5	3.535	0.27	41.78	-	42.05	-	56.00	46.00	-13.95	-
6	4.895	0.29	40.34	-	40.63	-	56.00	46.00	-15.37	-

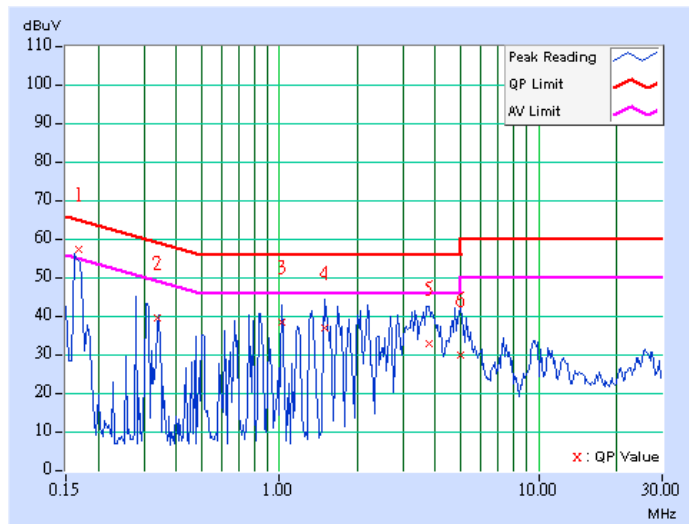
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60% RH, 991hPa	TESTED BY	Match Tsui

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.168	0.10	56.93	46.57	57.03	46.67	65.05	55.05	-8.02	-8.38
2	0.337	0.10	39.46	-	39.56	-	59.28	49.28	-19.72	-
3	1.020	0.21	38.26	-	38.47	-	56.00	46.00	-17.53	-
4	1.504	0.22	36.57	-	36.79	-	56.00	46.00	-19.21	-
5	3.766	0.27	32.70	-	32.97	-	56.00	46.00	-23.03	-
6	5.000	0.31	29.71	-	30.02	-	56.00	46.00	-25.98	-

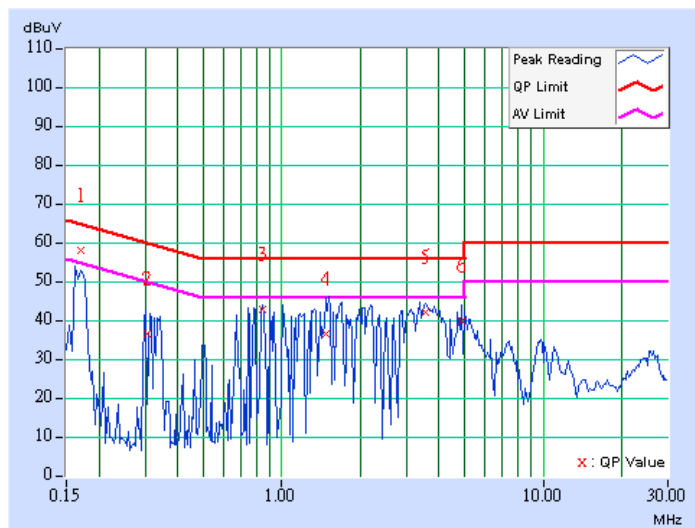
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



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

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	57.71	49.66	57.81	49.76	64.98	54.98	-7.17	-5.22
2	0.306	0.10	36.22	-	36.32	-	60.07	50.07	-23.75	-
3	0.841	0.11	42.68	-	42.79	-	56.00	46.00	-13.21	-
4	1.469	0.16	36.29	-	36.45	-	56.00	46.00	-19.55	-
5	3.547	0.27	41.81	-	42.08	-	56.00	46.00	-13.92	-
6	4.883	0.29	39.54	-	39.83	-	56.00	46.00	-16.17	-

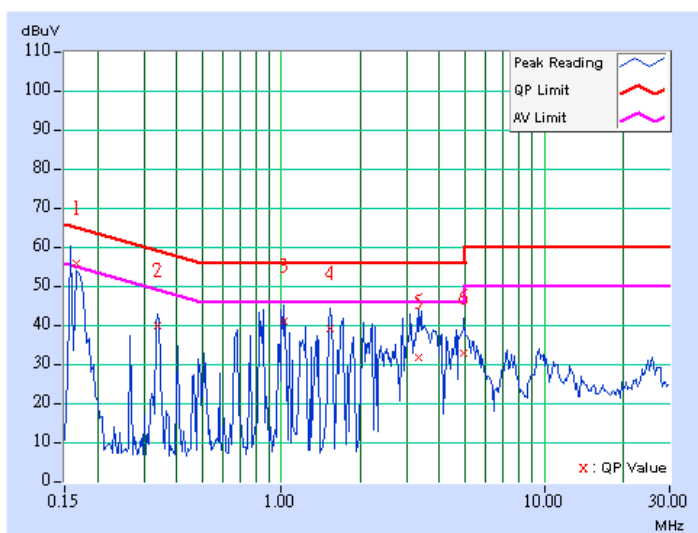
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60% RH, 991hPa	TESTED BY	Match Tsui

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.166	0.10	55.69	43.70	55.79	43.80	65.18	55.18	-9.39	-11.38
2	0.338	0.10	39.56	-	39.66	-	59.26	49.26	-19.60	-
3	1.027	0.21	40.64	-	40.85	-	56.00	46.00	-15.15	-
4	1.543	0.22	38.78	-	39.00	-	56.00	46.00	-17.00	-
5	3.324	0.26	31.39	-	31.65	-	56.00	46.00	-24.35	-
6	4.969	0.30	32.55	-	32.85	-	56.00	46.00	-23.15	-

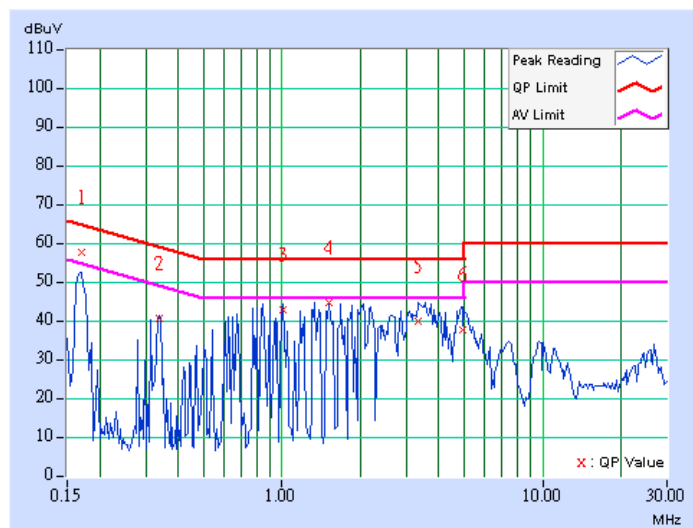
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60% RH, 991hPa	TESTED BY	Match Tsui

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	57.57	49.60	57.67	49.70	64.98	54.98	-7.31	-5.28
2	0.338	0.10	40.42	-	40.52	-	59.26	49.26	-18.74	-
3	1.008	0.11	42.79	-	42.90	-	56.00	46.00	-13.10	-
4	1.516	0.17	44.52	-	44.69	-	56.00	46.00	-11.31	-
5	3.344	0.26	39.62	-	39.88	-	56.00	46.00	-16.12	-
6	4.930	0.29	37.53	-	37.82	-	56.00	46.00	-18.18	-

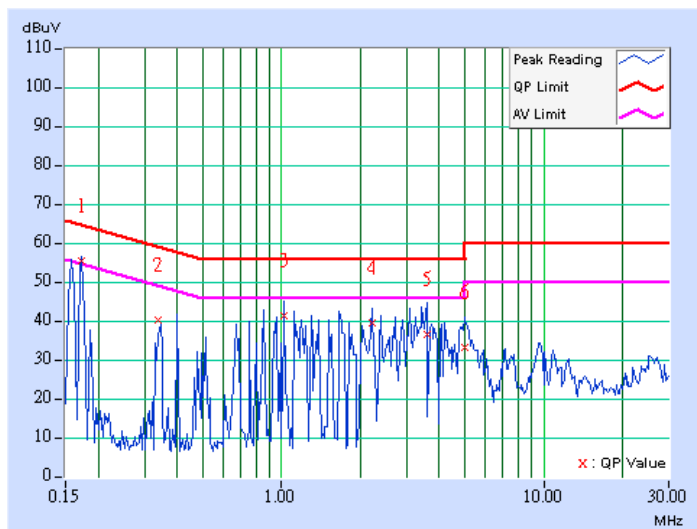
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	7.2Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60% RH, 991hPa	TESTED BY	Match Tsui

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.173	0.10	55.28	44.16	55.38	44.26	64.79	54.79	-9.41	-10.53
2	0.340	0.10	40.06	-	40.16	-	59.20	49.20	-19.04	-
3	1.027	0.21	41.17	-	41.38	-	56.00	46.00	-14.62	-
4	2.223	0.23	39.23	-	39.46	-	56.00	46.00	-16.54	-
5	3.594	0.27	36.39	-	36.66	-	56.00	46.00	-19.34	-
6	4.984	0.30	32.99	-	33.29	-	56.00	46.00	-22.71	-

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

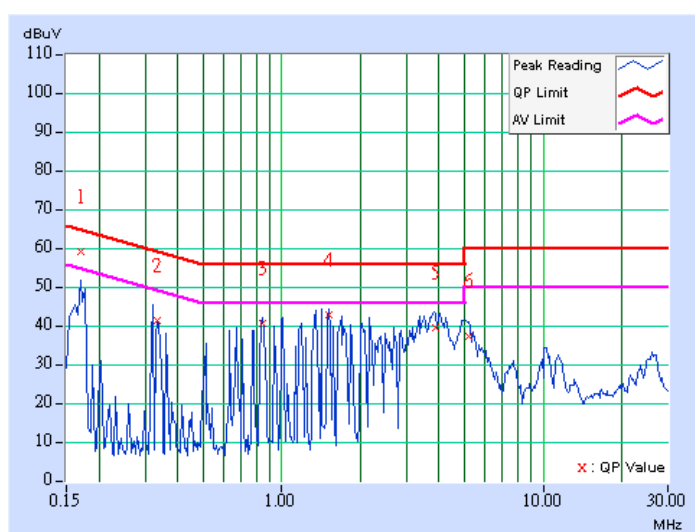


DRAFT 802.11n (40MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60% RH, 991hPa	TESTED BY	Match Tsui

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	58.98	50.42	59.08	50.52	64.96	54.96	-5.88	-4.44
2	0.334	0.10	41.32	-	41.42	-	59.35	49.35	-17.93	-
3	0.842	0.11	40.35	-	40.46	-	56.00	46.00	-15.54	-
4	1.520	0.17	42.54	-	42.71	-	56.00	46.00	-13.29	-
5	3.859	0.28	39.19	-	39.47	-	56.00	46.00	-16.53	-
6	5.190	0.29	37.15	-	37.44	-	60.00	50.00	-22.56	-

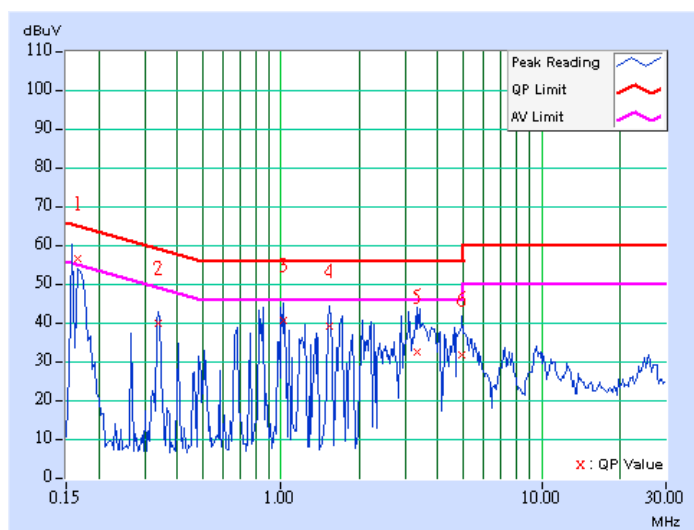
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60% RH, 991hPa	TESTED BY	Match Tsui

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.165	0.10	56.24	43.47	56.34	43.57	65.19	55.19	-8.85	-11.62
2	0.336	0.10	39.56	-	39.66	-	59.29	49.29	-19.63	-
3	1.027	0.21	40.54	-	40.75	-	56.00	46.00	-15.25	-
4	1.543	0.22	38.78	-	39.00	-	56.00	46.00	-17.00	-
5	3.324	0.26	32.17	-	32.43	-	56.00	46.00	-23.57	-
6	4.969	0.30	31.47	-	31.77	-	56.00	46.00	-24.23	-

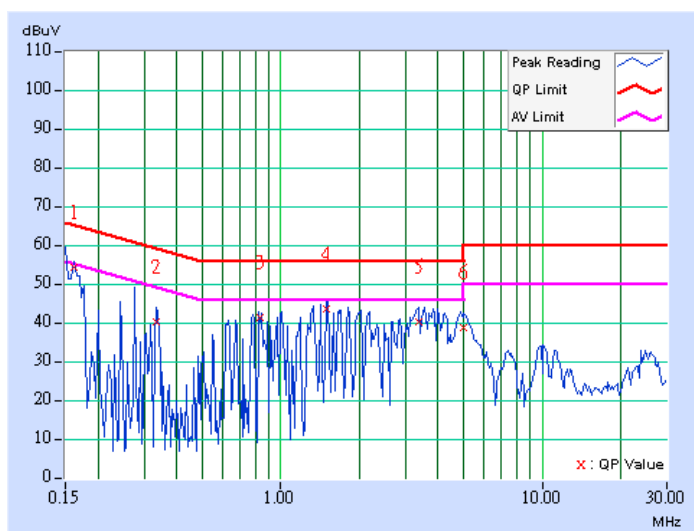
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60% RH, 991hPa	TESTED BY	Match Tsui

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.162	0.10	54.31	-	54.41	-	65.39	55.39	-10.98	-
2	0.334	0.10	40.25	-	40.35	-	59.34	49.34	-18.99	-
3	0.837	0.11	41.36	-	41.47	-	56.00	46.00	-14.53	-
4	1.504	0.17	43.53	-	43.70	-	56.00	46.00	-12.30	-
5	3.379	0.26	39.96	-	40.22	-	56.00	46.00	-15.78	-
6	5.005	0.29	38.57	-	38.86	-	60.00	50.00	-21.14	-

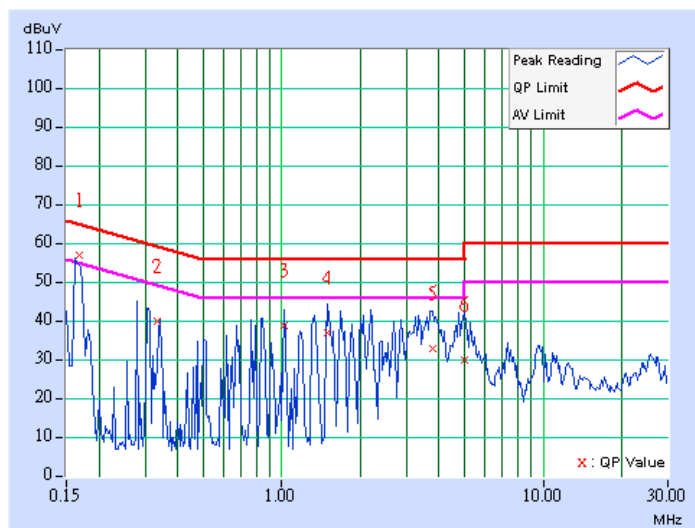
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60% RH, 991hPa	TESTED BY	Match Tsui

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.168	0.10	56.57	47.26	56.67	47.36	65.08
2	0.336	0.10	39.74	-	39.84	-	59.31	49.31	-19.47	-
3	1.019	0.21	38.56	-	38.77	-	56.00	46.00	-17.23	-
4	1.504	0.22	36.57	-	36.79	-	56.00	46.00	-19.21	-
5	3.766	0.27	32.77	-	33.04	-	56.00	46.00	-22.96	-
6	5.000	0.31	29.85	-	30.16	-	60.00	50.00	-29.84	-

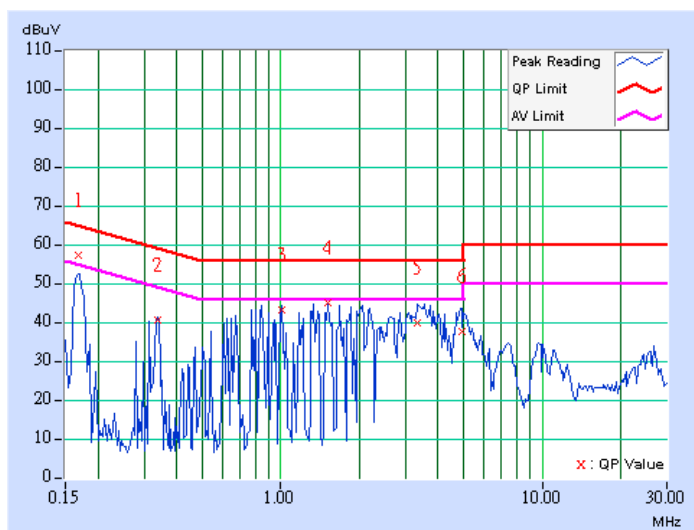
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60% RH, 991hPa	TESTED BY	Match Tsui

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.169	0.10	57.27	49.41	57.37	49.51	65.00	55.00	-7.63	-5.49
2	0.339	0.10	40.42	-	40.52	-	59.24	49.24	-18.72	-
3	1.012	0.11	42.89	-	43.00	-	56.00	46.00	-13.00	-
4	1.516	0.17	44.96	-	45.13	-	56.00	46.00	-10.87	-
5	3.344	0.26	39.67	-	39.93	-	56.00	46.00	-16.07	-
6	4.930	0.29	37.47	-	37.76	-	56.00	46.00	-18.24	-

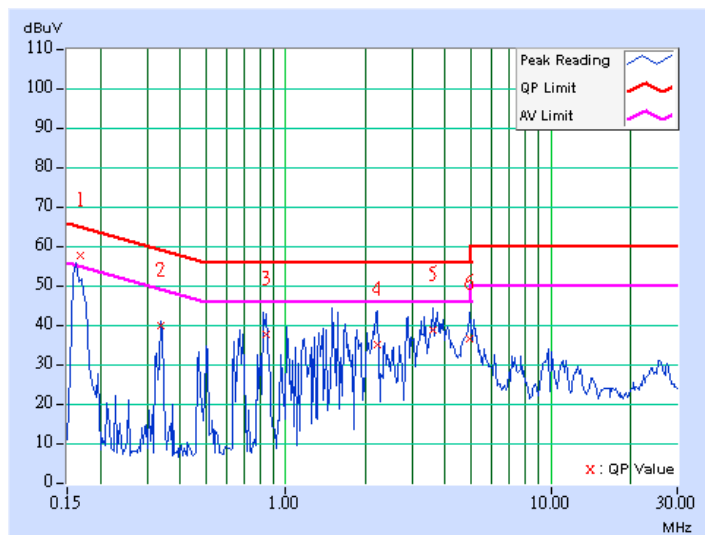
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	15.0Mbps	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	20deg. C, 60% RH, 991hPa	TESTED BY	Match Tsui

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.167	0.10	57.52	46.47	57.62	46.57	65.10	55.10	-7.48	-8.53
2	0.338	0.10	39.84	-	39.94	-	59.25	49.25	-19.31	-
3	0.848	0.18	37.58	-	37.76	-	56.00	46.00	-18.24	-
4	2.219	0.23	34.86	-	35.09	-	56.00	46.00	-20.91	-
5	3.578	0.27	38.77	-	39.04	-	56.00	46.00	-16.96	-
6	4.961	0.30	36.27	-	36.57	-	56.00	46.00	-19.43	-

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



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

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

NOTE:

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



4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESI7	838496/016	Dec. 29, 2007
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Dec. 01, 2007
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Jan. 04, 2008
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-405	Dec. 18, 2007
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170242	Jan. 16, 2008
Preamplifier Agilent	8449B	3008A1960	Oct. 30, 2007
Preamplifier Agilent	8447D	2944A10631	Oct. 30, 2007
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	230128/4	Nov. 14, 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	010303	NA
Antenna Tower Controller inn-co GmbH	CO2000	019303	NA
Turn Table ADT.	TT100.	TT93021704	NA
Turn Table Controller ADT.	SC100.	SC93021704	NA

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Chamber 4.
 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
 4. The IC Site Registration No. is IC3789B-4.

4.2.3 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.

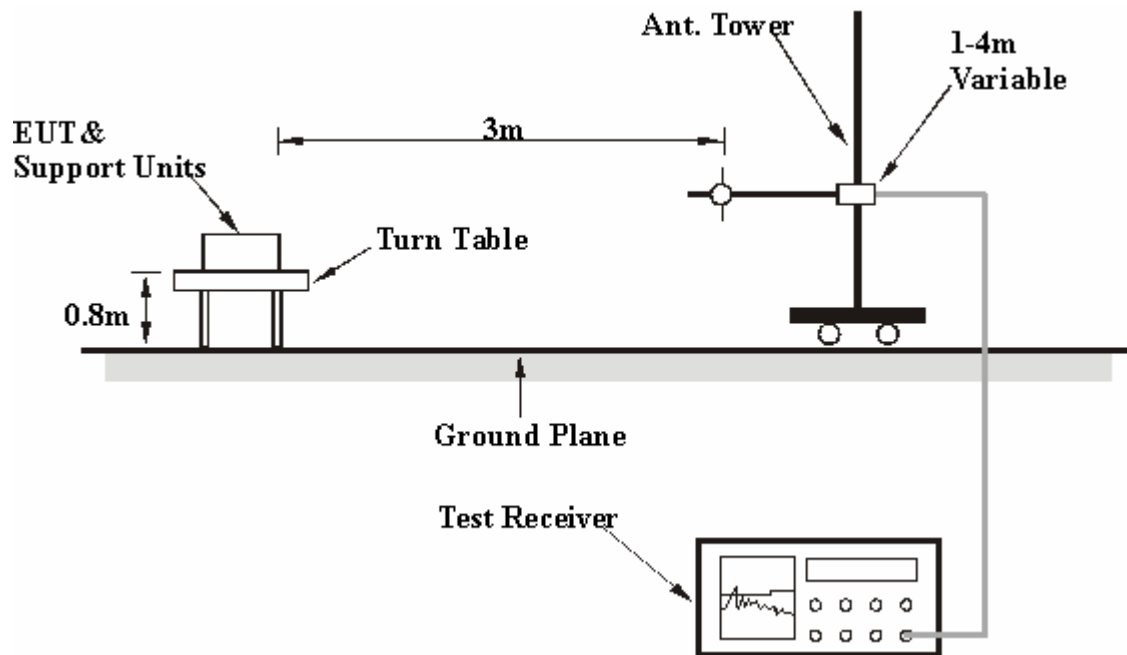
NOTE:

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 1 MHz 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		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	25deg. C, 60% RH, 985hPa	TESTED BY	Morgan Chen

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	35.73	30.40 QP	40.00	-9.60	1.00 H	325	17.81	12.59
2	148.50	39.04 QP	43.50	-4.46	1.00 H	106	24.38	14.66
3	171.83	40.31 QP	43.50	-3.19	1.00 H	34	26.62	13.69
4	197.11	34.18 QP	43.50	-9.32	1.00 H	61	22.64	11.53
5	249.60	36.94 QP	46.00	-9.06	1.00 H	253	23.26	13.69
6	445.98	36.96 QP	46.00	-9.04	1.00 H	322	18.18	18.78
7	595.69	43.63 QP	46.00	-2.37	1.50 H	16	20.60	23.03
8	718.18	38.67 QP	46.00	-7.33	1.00 H	46	13.21	25.46
9	743.39	43.82 QP	46.00	-2.18	1.00 H	55	18.07	25.75

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	49.34	37.65 QP	40.00	-2.35	1.50 V	166	23.52	14.13
2	62.95	34.99 QP	40.00	-5.01	1.00 V	223	21.63	13.37
3	148.50	36.27 QP	43.50	-7.23	1.00 V	229	21.62	14.66
4	171.83	38.15 QP	43.50	-5.35	1.50 V	358	24.46	13.69
5	445.98	39.27 QP	46.00	-6.73	1.50 V	265	20.49	18.78
6	494.58	39.20 QP	46.00	-6.80	1.00 V	181	18.84	20.35
7	595.69	41.74 QP	46.00	-4.26	1.50 V	355	18.72	23.03
8	743.45	38.62 QP	46.00	-7.38	1.50 V	286	12.86	25.75
9	867.89	36.60 QP	46.00	-9.40	2.00 V	304	9.16	27.44
10	893.16	39.97 QP	46.00	-6.03	1.50 V	343	12.13	27.85
11	918.44	37.51 QP	46.00	-8.49	2.00 V	241	9.35	28.16

- 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		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK for draft 802.11n (20MHz)	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	7.2Mbps	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 60% RH, 985hPa	TESTED BY	Morgan Chen

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	53.23	32.41 QP	40.00	-7.59	1.00 H	160	18.24	14.17
2	148.50	39.08 QP	43.50	-4.42	1.00 H	106	24.43	14.66
3	169.89	40.08 QP	43.50	-3.42	1.00 H	61	26.29	13.80
4	197.11	35.35 QP	43.50	-8.15	1.00 H	271	23.81	11.53
5	249.60	36.32 QP	46.00	-9.68	1.00 H	97	22.63	13.69
6	445.98	37.13 QP	46.00	-8.87	1.00 H	316	18.35	18.78
7	595.69	44.89 QP	46.00	-1.11	1.50 H	34	21.87	23.03
8	700.68	37.15 QP	46.00	-8.85	1.00 H	55	11.90	25.26
9	743.45	44.37 QP	46.00	-1.63	1.00 H	55	18.62	25.75
10	867.89	37.23 QP	46.00	-8.77	1.00 H	307	9.79	27.44
11	893.16	39.91 QP	46.00	-6.09	1.50 H	283	12.07	27.85

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	31.84	36.47 QP	40.00	-3.53	1.00 V	328	23.94	12.53
2	94.06	37.88 QP	43.50	-5.62	1.00 V	10	28.61	9.27
3	107.67	33.66 QP	43.50	-9.84	1.50 V	163	22.75	10.91
4	148.50	36.73 QP	43.50	-6.77	1.00 V	163	22.07	14.66
5	169.89	37.13 QP	43.50	-6.37	1.50 V	337	23.33	13.80
6	445.98	40.28 QP	46.00	-5.72	1.00 V	160	21.51	18.78
7	496.53	37.39 QP	46.00	-8.61	1.50 V	160	16.98	20.42
8	570.41	38.72 QP	46.00	-7.28	1.00 V	250	16.37	22.36
9	595.69	41.63 QP	46.00	-4.37	1.50 V	175	18.61	23.03
10	718.18	38.49 QP	46.00	-7.51	1.50 V	61	13.03	25.46
11	743.45	37.43 QP	46.00	-8.57	1.50 V	358	11.67	25.75
12	893.16	41.53 QP	46.00	-4.47	1.50 V	355	13.68	27.85

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

DRAFT 802.11n (40MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK for draft 802.11n (40MHz)	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	15.0Mbps	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 60% RH, 985hPa	TESTED BY	Morgan Chen

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	55.18	33.35 QP	40.00	-6.65	2.00 H	112	19.27	14.08
2	123.23	33.74 QP	43.50	-9.76	1.00 H	319	21.32	12.42
3	148.50	39.00 QP	43.50	-4.50	2.00 H	109	24.34	14.66
4	169.89	40.31 QP	43.50	-3.19	2.00 H	40	26.51	13.80
5	197.11	39.62 QP	43.50	-3.88	1.50 H	61	28.08	11.53
6	259.33	37.90 QP	46.00	-8.10	1.00 H	106	23.99	13.91
7	296.27	43.80 QP	46.00	-2.20	1.00 H	280	29.14	14.66
8	445.98	39.81 QP	46.00	-6.19	2.00 H	313	21.03	18.78
9	471.25	36.62 QP	46.00	-9.38	1.50 H	7	17.02	19.59
10	496.53	38.22 QP	46.00	-7.78	1.50 H	109	17.80	20.42
11	595.69	43.50 QP	46.00	-2.50	1.50 H	52	20.47	23.03
12	700.68	36.95 QP	46.00	-9.05	1.00 H	46	11.69	25.26
13	743.45	42.79 QP	46.00	-3.21	1.00 H	55	17.03	25.75
14	768.73	36.47 QP	46.00	-9.53	1.00 H	10	10.42	26.06
15	794.01	37.18 QP	46.00	-8.82	1.00 H	37	10.82	26.36
16	893.16	39.51 QP	46.00	-6.49	1.50 H	280	11.66	27.85

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK for draft 802.11n (40MHz)	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	15.0Mbps	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 60% RH, 985hPa	TESTED BY	Morgan Chen

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	33.79	32.36 QP	40.00	-7.64	1.00 V	169	19.78	12.58
2	62.95	36.14 QP	40.00	-3.86	1.00 V	211	22.77	13.37
3	123.23	35.16 QP	43.50	-8.34	1.00 V	115	22.74	12.42
4	132.95	38.72 QP	43.50	-4.78	1.50 V	76	25.72	13.00
5	173.78	37.60 QP	43.50	-5.90	1.50 V	352	24.01	13.59
6	379.87	37.41 QP	46.00	-8.59	1.50 V	115	20.60	16.82
7	445.98	39.70 QP	46.00	-6.30	1.50 V	271	20.92	18.78
8	494.58	40.82 QP	46.00	-5.18	1.00 V	262	20.47	20.35
9	545.14	37.34 QP	46.00	-8.66	1.00 V	199	15.65	21.69
10	595.69	41.95 QP	46.00	-4.05	1.50 V	358	18.92	23.03
11	743.45	37.51 QP	46.00	-8.49	1.50 V	340	11.76	25.75
12	867.89	38.01 QP	46.00	-7.99	1.50 V	259	10.57	27.44

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

802.11b DSSS MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	1.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60% RH, 985hPa	TESTED BY	Morgan Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1608.00	46.12 PK	74.00	-27.88	1.13 H	82	16.04	30.08
2	1608.00	40.85 AV	54.00	-13.15	1.13 H	82	10.77	30.08
3	2390.00	57.06 PK	74.00	-16.94	1.10 H	68	24.83	32.23
4	2390.00	45.92 AV	54.00	-8.08	1.10 H	68	13.69	32.23
5	*2412.00	100.29 PK			1.10 H	68	67.98	32.31
6	*2412.00	96.03 AV			1.10 H	68	63.72	32.31
7	4824.00	53.26 PK	74.00	-20.74	1.10 H	29	14.69	38.57
8	4824.00	41.48 AV	54.00	-12.52	1.10 H	29	2.91	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	1608.00	49.24 PK	74.00	-24.76	1.13 V	256	19.16	30.08
2	1608.00	44.89 AV	54.00	-9.11	1.13 V	256	14.81	30.08
3	2390.00	60.86 PK	74.00	-13.14	1.18 V	80	28.63	32.23
4	2390.00	52.03 AV	54.00	-1.97	1.18 V	80	19.80	32.23
5	*2412.00	111.18 PK			1.18 V	80	78.87	32.31
6	*2412.00	106.85 AV			1.18 V	80	74.54	32.31
7	4824.00	59.50 PK	74.00	-14.50	1.10 V	198	20.93	38.57
8	4824.00	50.12 AV	54.00	-3.88	1.10 V	198	11.55	38.57

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 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	25deg. C, 60% RH, 985hPa	TESTED BY	Morgan Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1624.00	46.36 PK	74.00	-27.64	1.05 H	231	16.26	30.10
2	1624.00	41.10 AV	54.00	-12.90	1.05 H	231	11.00	30.10
3	*2437.00	101.35 PK			1.11 H	62	68.94	32.41
4	*2437.00	97.15 AV			1.11 H	62	64.74	32.41
5	4874.00	53.16 PK	74.00	-20.84	1.19 H	52	14.45	38.71
6	4874.00	41.24 AV	54.00	-12.76	1.19 H	52	2.53	38.71

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1624.00	49.56 PK	74.00	-24.44	1.18 V	23	19.46	30.10
2	1624.00	45.44 AV	54.00	-8.56	1.18 V	23	15.34	30.10
3	*2437.00	112.20 PK			1.19 V	74	79.79	32.41
4	*2437.00	107.93 AV			1.19 V	74	75.52	32.41
5	4874.00	58.40 PK	74.00	-15.60	1.10 V	22	19.69	38.71
6	4874.00	49.06 AV	54.00	-4.94	1.10 V	22	10.35	38.71

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	1.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60% RH, 985hPa	TESTED BY	Morgan Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1641.00	45.86 PK	74.00	-28.14	1.01 H	39	15.73	30.13
2	1641.00	40.51 AV	54.00	-13.49	1.01 H	39	10.38	30.13
3	*2462.00	100.62 PK			1.13 H	50	68.12	32.50
4	*2462.00	96.29 AV			1.13 H	50	63.79	32.50
5	2483.50	55.96 PK	74.00	-18.04	1.13 H	50	23.38	32.58
6	2483.50	44.83 AV	54.00	-9.17	1.13 H	50	12.25	32.58
7	4924.00	54.35 PK	74.00	-19.65	1.02 H	84	15.51	38.84
8	4924.00	42.66 AV	54.00	-11.34	1.02 H	84	3.82	38.84

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1641.00	49.22 PK	74.00	-24.78	1.21 V	45	19.09	30.13
2	1641.00	45.03 AV	54.00	-8.97	1.21 V	45	14.90	30.13
3	*2462.00	111.36 PK			1.20 V	85	78.86	32.50
4	*2462.00	106.95 AV			1.20 V	85	74.45	32.50
5	2483.50	62.15 PK	74.00	-11.85	1.20 V	85	29.57	32.58
6	2483.50	52.21 AV	54.00	-1.79	1.20 V	85	19.63	32.58
7	4924.00	58.26 PK	74.00	-15.74	1.18 V	25	19.42	38.84
8	4924.00	49.87 AV	54.00	-4.13	1.18 V	25	11.03	38.84

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

802.11g OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60% RH, 985hPa	TESTED BY	Morgan Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1608.00	43.54 PK	74.00	-30.46	1.01 H	29	13.46	30.08
2	1608.00	33.06 AV	54.00	-20.94	1.01 H	29	2.98	30.08
3	2390.00	54.68 PK	74.00	-19.32	1.02 H	291	22.45	32.23
4	2390.00	44.09 AV	54.00	-9.91	1.02 H	291	11.86	32.23
5	*2412.00	99.32 PK			1.02 H	291	67.01	32.31
6	*2412.00	88.59 AV			1.02 H	291	56.28	32.31
7	4824.00	47.51 PK	74.00	-26.49	1.01 H	155	8.94	38.57
8	4824.00	34.52 AV	54.00	-19.48	1.01 H	155	-4.05	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	1608.00	47.21 PK	74.00	-26.79	1.02 V	200	17.13	30.08
2	1608.00	34.46 AV	54.00	-19.54	1.02 V	200	4.38	30.08
3	2390.00	71.04 PK	74.00	-2.96	1.01 V	129	38.81	32.23
4	2390.00	52.24 AV	54.00	-1.76	1.01 V	129	20.01	32.23
5	*2412.00	111.86 PK			1.01 V	129	79.55	32.31
6	*2412.00	101.08 AV			1.01 V	129	68.77	32.31
7	4824.00	49.86 PK	74.00	-24.14	1.18 V	205	11.29	38.57
8	4824.00	36.84 AV	54.00	-17.16	1.18 V	205	-1.73	38.57

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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 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	25deg. C, 60% RH, 985hPa	TESTED BY	Morgan Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1624.00	44.35 PK	74.00	-29.65	1.05 H	172	14.25	30.10
2	1624.00	33.59 AV	54.00	-20.41	1.05 H	172	3.49	30.10
3	*2437.00	100.53 PK			1.02 H	266	68.12	32.41
4	*2437.00	89.95 AV			1.02 H	266	57.54	32.41
5	4874.00	48.66 PK	74.00	-25.34	1.01 H	248	9.95	38.71
6	4874.00	35.54 AV	54.00	-18.46	1.01 H	248	-3.17	38.71

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1624.00	46.31 PK	74.00	-27.69	1.08 V	142	16.21	30.10
2	1624.00	33.65 AV	54.00	-20.35	1.08 V	142	3.55	30.10
3	2386.00	63.01 PK	74.00	-10.99	1.02 V	104	30.79	32.22
4	2386.00	52.39 AV	54.00	-1.61	1.02 V	104	20.17	32.22
5	*2437.00	113.28 PK			1.02 V	104	80.87	32.41
6	*2437.00	102.46 AV			1.02 V	104	70.05	32.41
7	4874.00	48.59 PK	74.00	-25.41	1.06 V	181	9.88	38.71
8	4874.00	35.96 AV	54.00	-18.04	1.06 V	181	-2.75	38.71

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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	6.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60% RH, 985hPa	TESTED BY	Morgan Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1641.00	46.70 PK	74.00	-27.30	1.01 H	211	16.57	30.13
2	1641.00	33.86 AV	54.00	-20.14	1.01 H	211	3.73	30.13
3	*2462.00	99.65 PK			1.01 H	274	67.15	32.50
4	*2462.00	89.15 AV			1.01 H	274	56.65	32.50
5	2483.50	58.42 PK	74.00	-15.58	1.01 H	274	25.84	32.58
6	2483.50	43.56 AV	54.00	-10.44	1.01 H	274	10.98	32.58
7	4924.00	48.76 PK	74.00	-25.24	1.05 H	224	9.92	38.84
8	4924.00	35.69 AV	54.00	-18.31	1.05 H	224	-3.15	38.84

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1641.00	47.56 PK	74.00	-26.44	1.05 V	212	17.43	30.13
2	1641.00	34.80 AV	54.00	-19.20	1.05 V	212	4.67	30.13
3	*2462.00	111.62 PK			1.34 V	270	79.12	32.50
4	*2462.00	100.95 AV			1.34 V	270	68.45	32.50
5	2483.50	67.11 PK	74.00	-6.89	1.34 V	270	34.53	32.58
6	2483.50	52.50 AV	54.00	-1.50	1.34 V	270	19.92	32.58
7	4924.00	48.16 PK	74.00	-25.84	1.06 V	101	9.32	38.84
8	4924.00	34.86 AV	54.00	-19.14	1.06 V	101	-3.98	38.84

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

DRAFT 802.11n (20MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	7.2Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60% RH, 985hPa	TESTED BY	Morgan Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1608.00	44.56 PK	74.00	-29.44	1.15 H	26	14.48	30.08
2	1608.00	33.81 AV	54.00	-20.19	1.15 H	26	3.73	30.08
3	2390.00	54.81 PK	74.00	-19.19	1.11 H	292	22.58	32.23
4	2390.00	44.32 AV	54.00	-9.68	1.11 H	292	12.09	32.23
5	*2412.00	100.53 PK			1.11 H	292	68.22	32.31
6	*2412.00	89.77 AV			1.11 H	292	57.46	32.31
7	4824.00	48.61 PK	74.00	-25.39	1.19 H	56	10.04	38.57
8	4824.00	35.04 AV	54.00	-18.96	1.19 H	56	-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	1608.00	48.76 PK	74.00	-25.24	1.10 V	64	18.68	30.08
2	1608.00	36.05 AV	54.00	-17.95	1.10 V	64	5.97	30.08
3	2390.00	68.84 PK	74.00	-5.16	1.19 V	62	36.61	32.23
4	2390.00	52.36 AV	54.00	-1.64	1.19 V	62	20.13	32.23
5	*2412.00	112.95 PK			1.19 V	62	80.64	32.31
6	*2412.00	102.08 AV			1.19 V	62	69.77	32.31
7	4824.00	49.52 PK	74.00	-24.48	1.11 V	209	10.95	38.57
8	4824.00	36.61 AV	54.00	-17.39	1.11 V	209	-1.96	38.57

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 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	25deg. C, 60% RH, 985hPa	TESTED BY	Morgan Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1624.00	44.86 PK	74.00	-29.14	1.15 H	62	14.76	30.10
2	1624.00	34.11 AV	54.00	-19.89	1.15 H	62	4.01	30.10
3	*2437.00	101.53 PK			1.09 H	284	69.12	32.41
4	*2437.00	90.83 AV			1.09 H	284	58.42	32.41
5	4874.00	48.26 PK	74.00	-25.74	1.10 H	21	9.55	38.71
6	4874.00	34.65 AV	54.00	-19.35	1.10 H	21	-4.06	38.71

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1624.00	48.52 PK	74.00	-25.48	1.11 V	305	18.42	30.10
2	1624.00	35.81 AV	54.00	-18.19	1.11 V	305	5.71	30.10
3	2385.00	64.19 PK	74.00	-9.81	1.18 V	69	31.98	32.21
4	2385.00	52.32 AV	54.00	-1.68	1.18 V	69	20.11	32.21
5	*2437.00	114.06 PK			1.18 V	69	81.65	32.41
6	*2437.00	103.22 AV			1.18 V	69	70.81	32.41
7	4874.00	50.13 PK	74.00	-23.87	1.09 V	195	11.42	38.71
8	4874.00	37.52 AV	54.00	-16.48	1.09 V	195	-1.19	38.71

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	7.2Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60% RH, 985hPa	TESTED BY	Morgan Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1641.00	44.93 PK	74.00	-29.07	1.08 H	47	14.80	30.13
2	1641.00	34.16 AV	54.00	-19.84	1.08 H	47	4.03	30.13
3	*2462.00	100.85 PK			1.10 H	281	68.35	32.50
4	*2462.00	90.21 AV			1.10 H	281	57.71	32.50
5	2483.50	54.75 PK	74.00	-19.25	1.10 H	281	22.17	32.58
6	2483.50	44.26 AV	54.00	-9.74	1.10 H	281	11.68	32.58
7	4924.00	48.35 PK	74.00	-25.65	1.18 H	229	9.51	38.84
8	4924.00	34.79 AV	54.00	-19.21	1.18 H	229	-4.05	38.84

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1641.00	48.51 PK	74.00	-25.49	1.05 V	61	18.38	30.13
2	1641.00	35.82 AV	54.00	-18.18	1.05 V	61	5.69	30.13
3	*2462.00	113.25 PK			1.20 V	64	80.75	32.50
4	*2462.00	102.31 AV			1.20 V	64	69.81	32.50
5	2483.50	64.86 PK	74.00	-9.14	1.20 V	64	32.28	32.58
6	2483.50	52.03 AV	54.00	-1.97	1.20 V	64	19.45	32.58
7	4924.00	50.26 PK	74.00	-23.74	1.09 V	208	11.42	38.84
8	4924.00	37.53 AV	54.00	-16.47	1.09 V	208	-1.31	38.84

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

DRAFT 802.11n (40MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	15.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60% RH, 985hPa	TESTED BY	Morgan Chen

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	1614.00	45.38 PK	74.00	-28.62	1.16 H	28	15.29	30.09
2	1614.00	34.56 AV	54.00	-19.44	1.16 H	28	4.47	30.09
3	2390.00	55.41 PK	74.00	-18.59	1.10 H	153	23.18	32.23
4	2390.00	43.63 AV	54.00	-10.37	1.10 H	153	11.40	32.23
5	*2422.00	100.84 PK			1.10 H	153	68.49	32.35
6	*2422.00	90.41 AV			1.10 H	153	58.06	32.35
7	4844.00	48.52 PK	74.00	-25.48	1.06 H	229	9.89	38.63
8	4844.00	34.83 AV	54.00	-19.17	1.06 H	229	-3.80	38.63

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	1614.00	48.75 PK	74.00	-25.25	1.19 V	24	18.66	30.09
2	1614.00	36.18 AV	54.00	-17.82	1.19 V	24	6.09	30.09
3	2390.00	63.72 PK	74.00	-10.28	1.35 V	270	31.49	32.23
4	2390.00	52.04 AV	54.00	-1.96	1.35 V	270	19.81	32.23
5	*2422.00	111.16 PK			1.35 V	270	78.81	32.35
6	*2422.00	100.75 AV			1.35 V	270	68.40	32.35
7	4844.00	49.86 PK	74.00	-24.14	1.19 V	56	11.23	38.63
8	4844.00	37.04 AV	54.00	-16.96	1.19 V	56	-1.59	38.63

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 4	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	15.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60% RH, 985hPa	TESTED BY	Morgan Chen

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1624.00	45.98 PK	74.00	-28.02	1.19 H	228	15.88	30.10
2	1624.00	35.43 AV	54.00	-18.57	1.19 H	228	5.33	30.10
3	*2437.00	102.03 PK			1.08 H	152	69.62	32.41
4	*2437.00	91.52 AV			1.08 H	152	59.11	32.41
5	4874.00	48.52 PK	74.00	-25.48	1.13 H	94	9.81	38.71
6	4874.00	34.84 AV	54.00	-19.16	1.13 H	94	-3.87	38.71

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	1624.00	48.72 PK	74.00	-25.28	1.10 V	283	18.62	30.10
2	1624.00	36.15 AV	54.00	-17.85	1.10 V	283	6.05	30.10
3	*2437.00	112.35 PK			1.36 V	268	79.94	32.41
4	*2437.00	101.96 AV			1.36 V	268	69.55	32.41
5	2483.50	64.05 PK	74.00	-9.95	1.36 V	268	31.47	32.58
6	2483.50	51.86 AV	54.00	-2.14	1.36 V	268	19.28	32.58
7	4874.00	49.63 PK	74.00	-24.37	1.11 V	59	10.92	38.71
8	4874.00	36.74 AV	54.00	-17.26	1.11 V	59	-1.97	38.71

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 7	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60 Hz
TRANSFER RATE	15.0Mbps	DETECTOR FUNCTION	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 60% RH, 985hPa	TESTED BY	Morgan Chen

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	1634.00	44.78 PK	74.00	-29.22	1.00 H	220	14.66	30.12
2	1634.00	34.10 AV	54.00	-19.90	1.00 H	220	3.98	30.12
3	*2452.00	100.71 PK			1.09 H	143	68.25	32.46
4	*2452.00	90.28 AV			1.09 H	143	57.82	32.46
5	2483.50	54.31 PK	74.00	-19.69	1.09 H	143	21.73	32.58
6	2483.50	42.55 AV	54.00	-11.45	1.09 H	143	9.97	32.58
7	4904.00	48.63 PK	74.00	-25.37	1.09 H	225	9.84	38.79
8	4904.00	34.97 AV	54.00	-19.03	1.09 H	225	-3.82	38.79

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	1634.00	48.69 PK	74.00	-25.31	1.10 V	45	18.57	30.12
2	1634.00	35.88 AV	54.00	-18.12	1.10 V	45	5.76	30.12
3	*2452.00	111.25 PK			1.40 V	270	78.79	32.46
4	*2452.00	100.70 AV			1.40 V	270	68.24	32.46
5	2483.50	63.85 PK	74.00	-10.15	1.40 V	270	31.27	32.58
6	2483.50	52.12 AV	54.00	-1.88	1.40 V	270	19.54	32.58
7	4904.00	49.62 PK	74.00	-24.38	1.10 V	34	10.83	38.79
8	4904.00	36.74 AV	54.00	-17.26	1.10 V	34	-2.05	38.79

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



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	Apr. 11, 2008

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

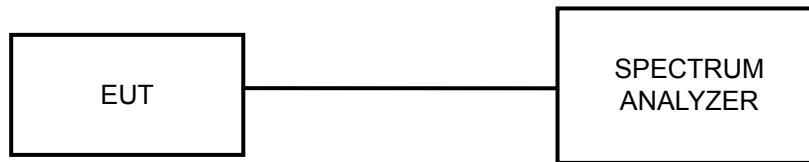
4.3.3 TEST PROCEDURE

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.

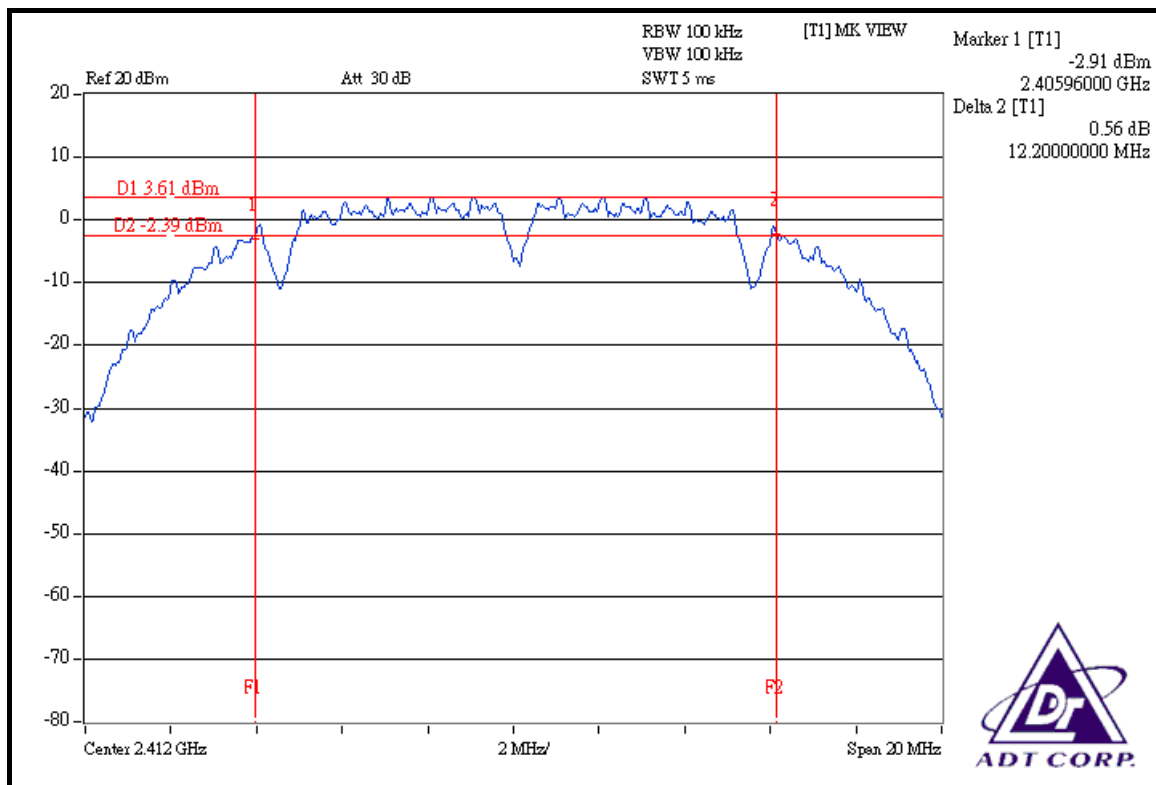
4.3.7 TEST RESULTS

802.11b DSSS MODULATION

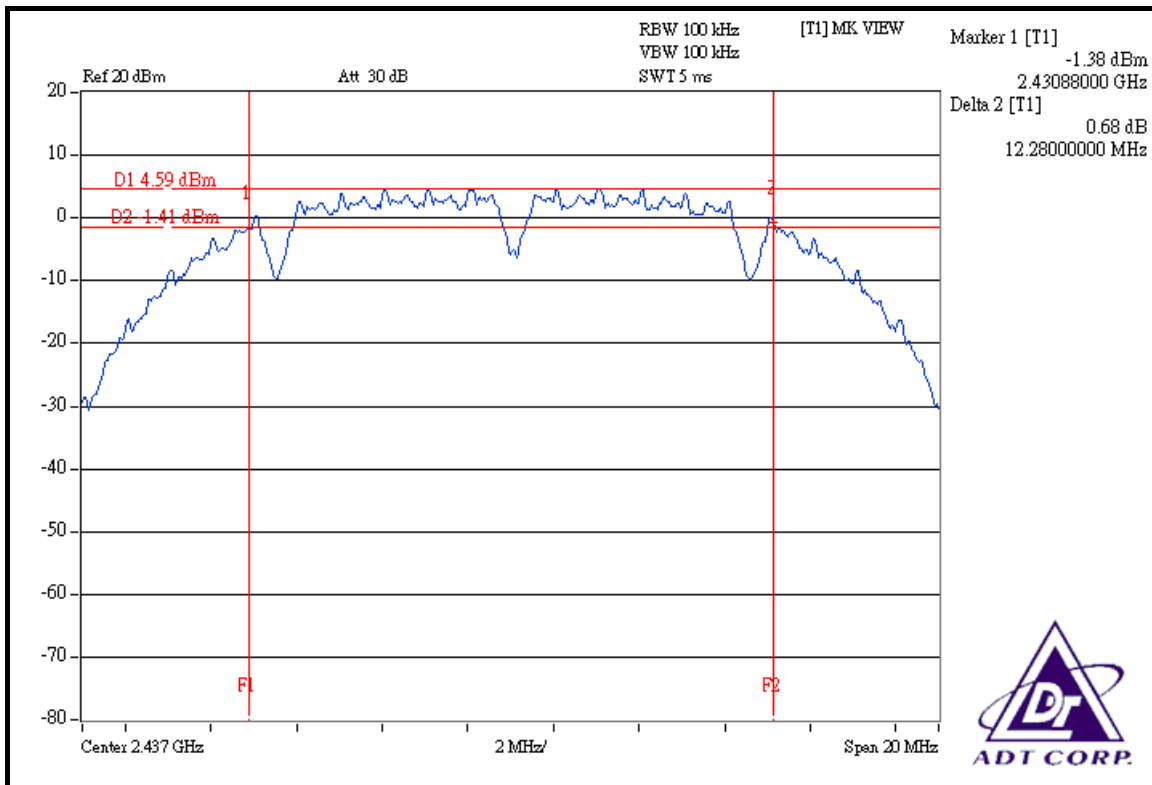
MODULATION TYPE	DBPSK	TRANSFER RATE	1.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	27deg.C, 65% RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	12.20	0.5	PASS
6	2437	12.28	0.5	PASS
11	2462	12.32	0.5	PASS

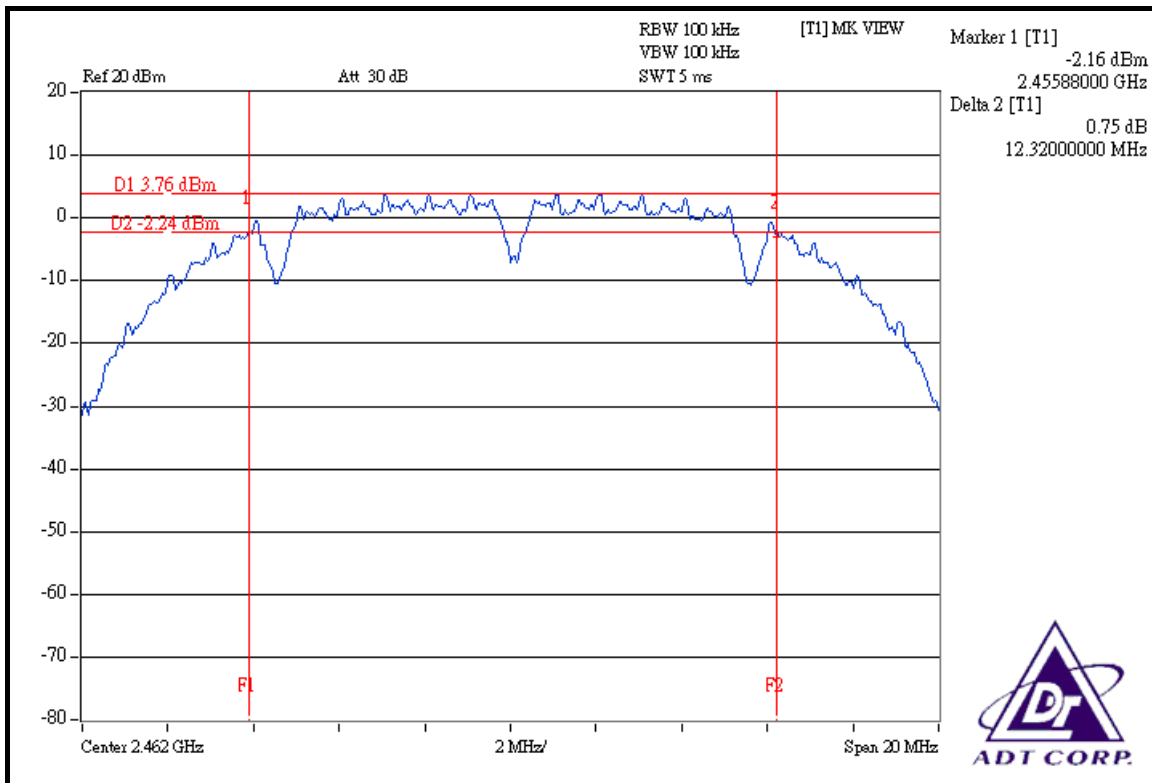
CH 1



CH 6



CH 11



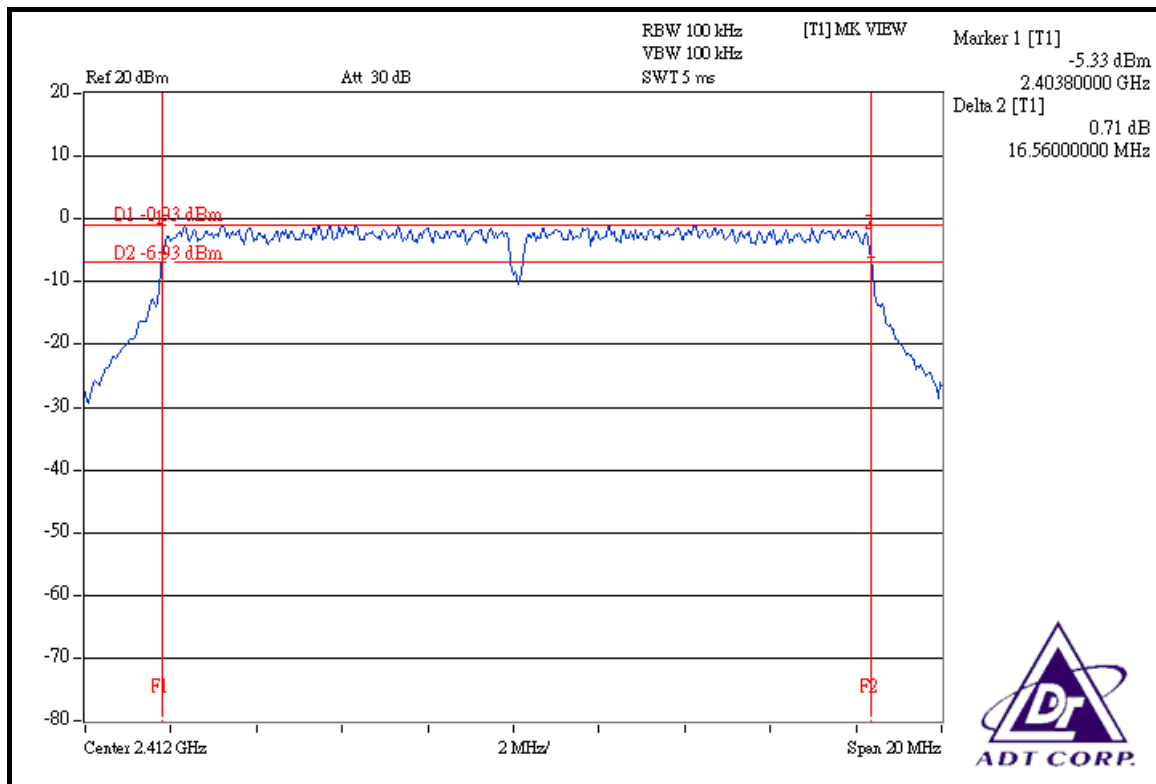


802.11g OFDM MODULATION

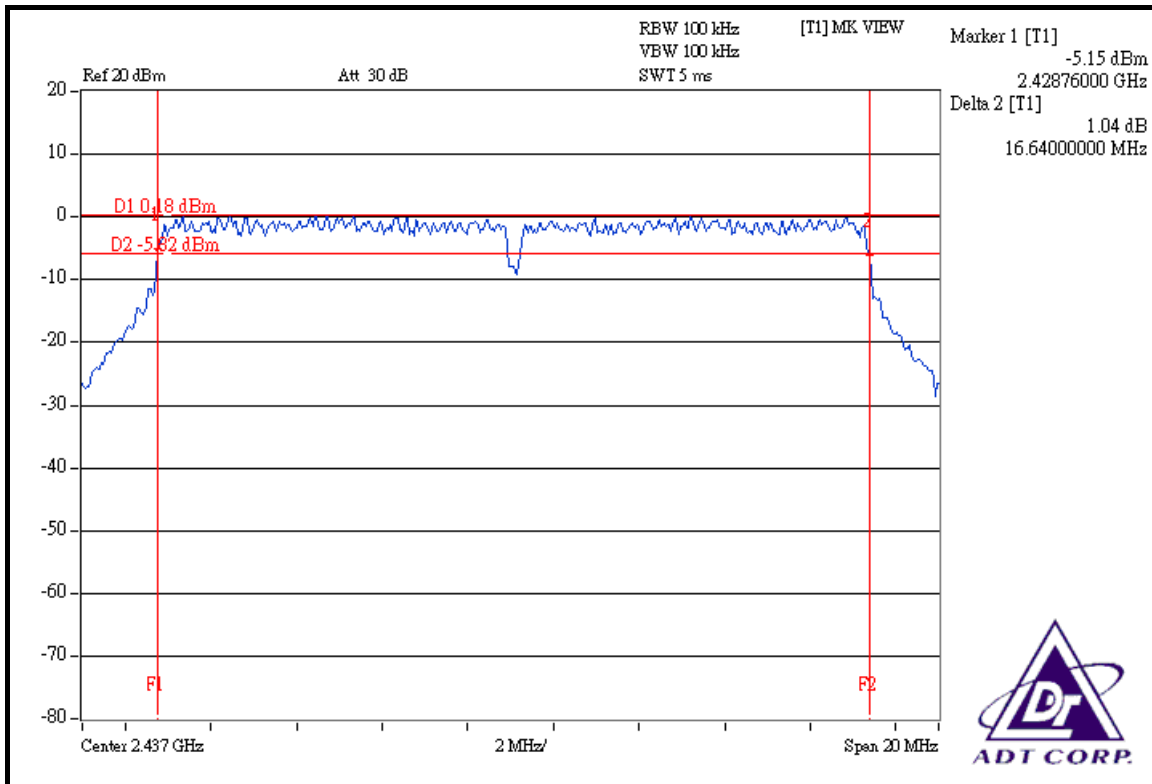
MODULATION TYPE	BPSK	TRANSFER RATE	6.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	27deg.C, 65% RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	16.56	0.5	PASS
6	2437	16.64	0.5	PASS
11	2462	16.56	0.5	PASS

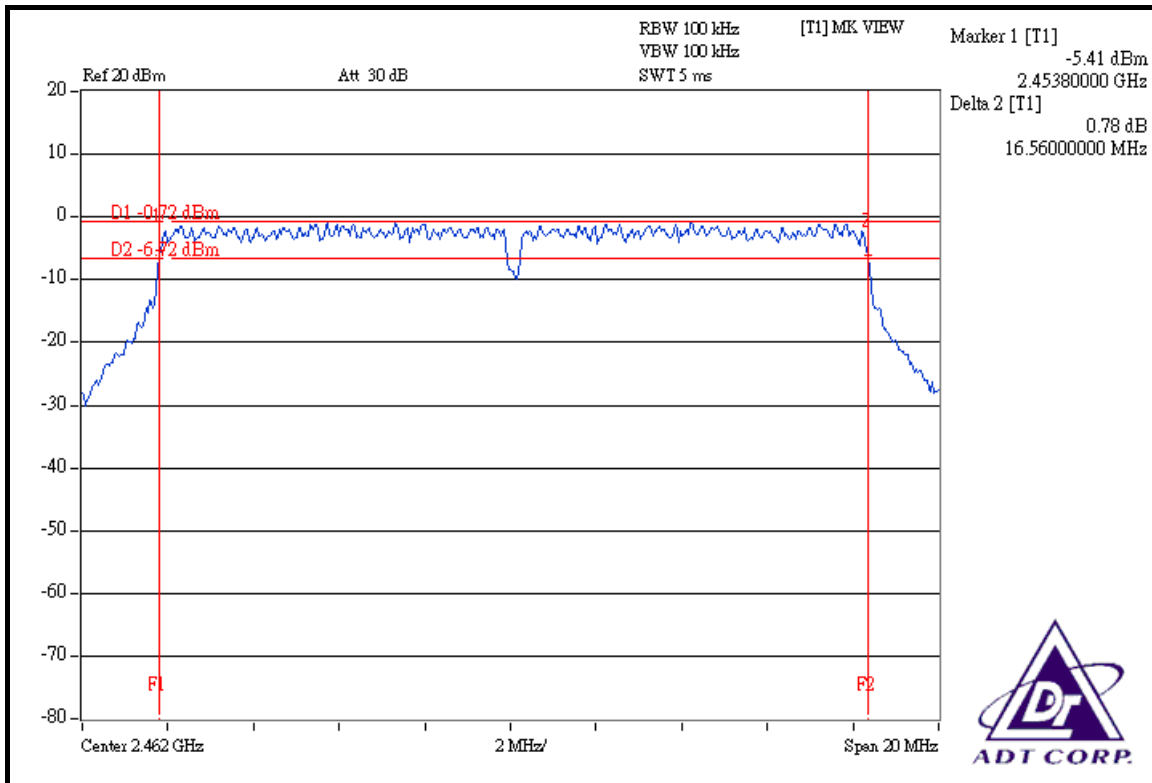
CH 1



CH 6



CH 11



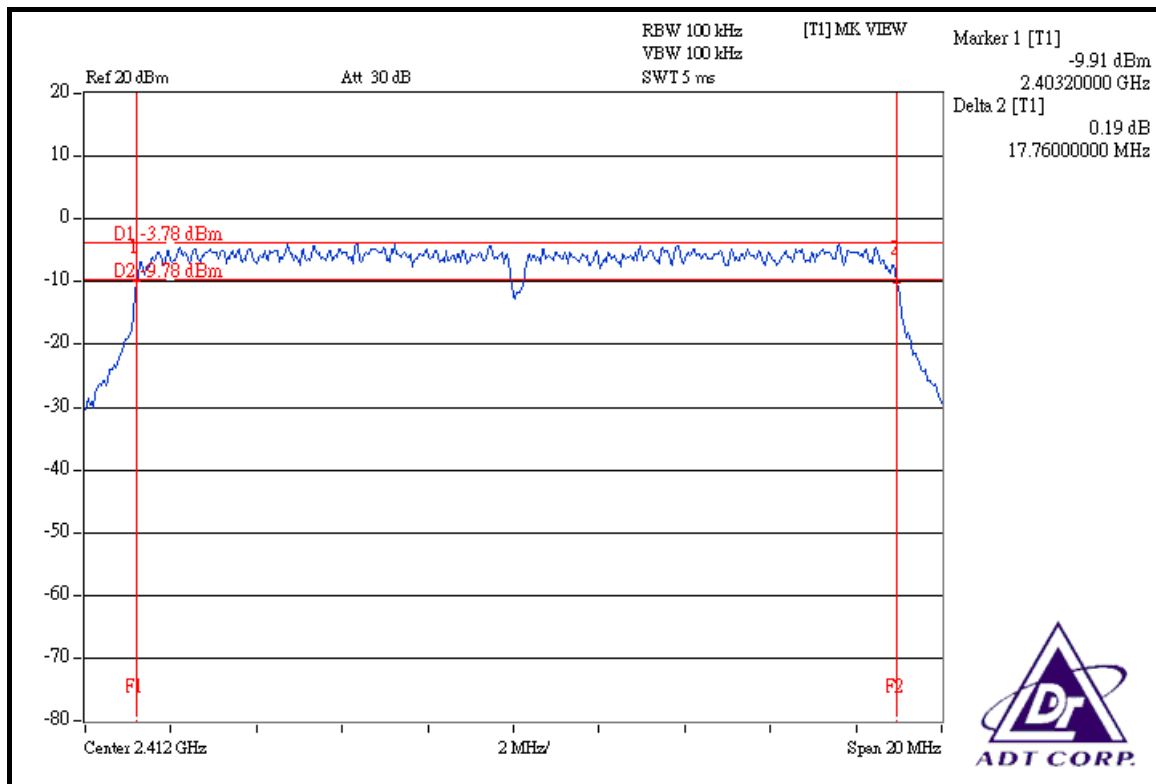


DRAFT 802.11n (20MHz) OFDM MODULATION

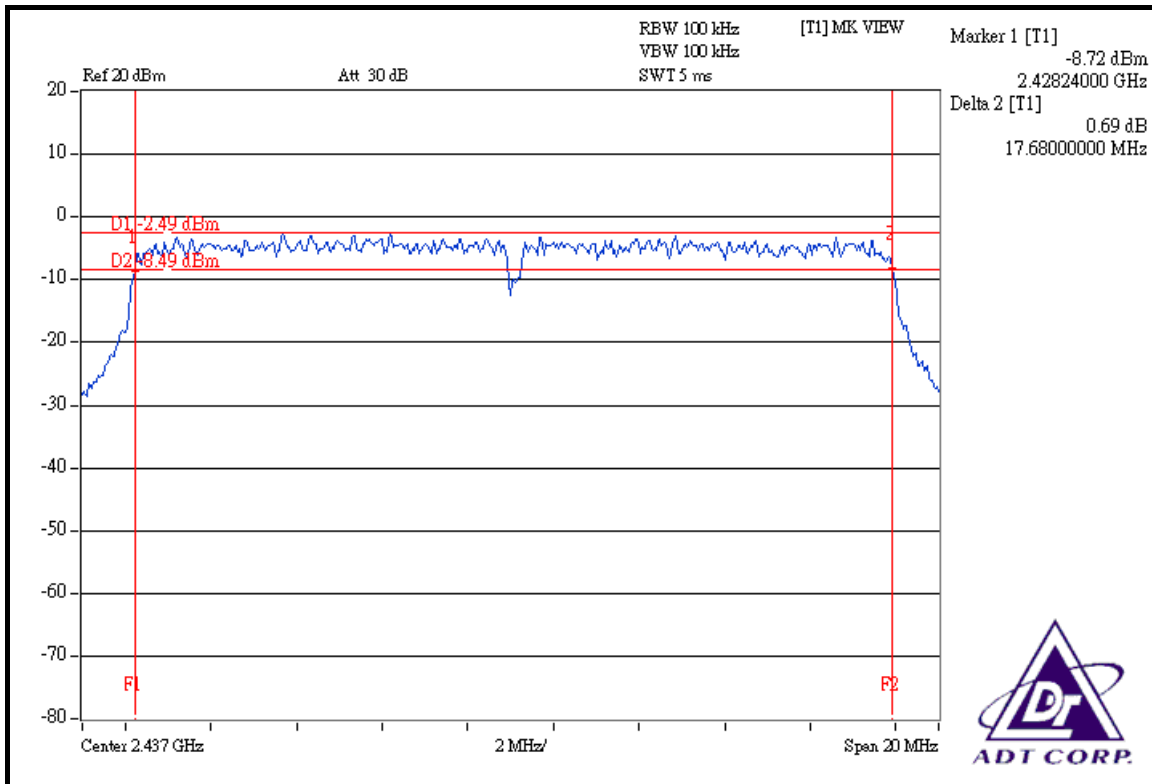
MODULATION TYPE	BPSK	TRANSFER RATE	7.2Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	27deg.C, 65% RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2412	17.76	17.76	0.5	PASS
6	2437	17.68	17.72	0.5	PASS
11	2462	17.68	17.68	0.5	PASS

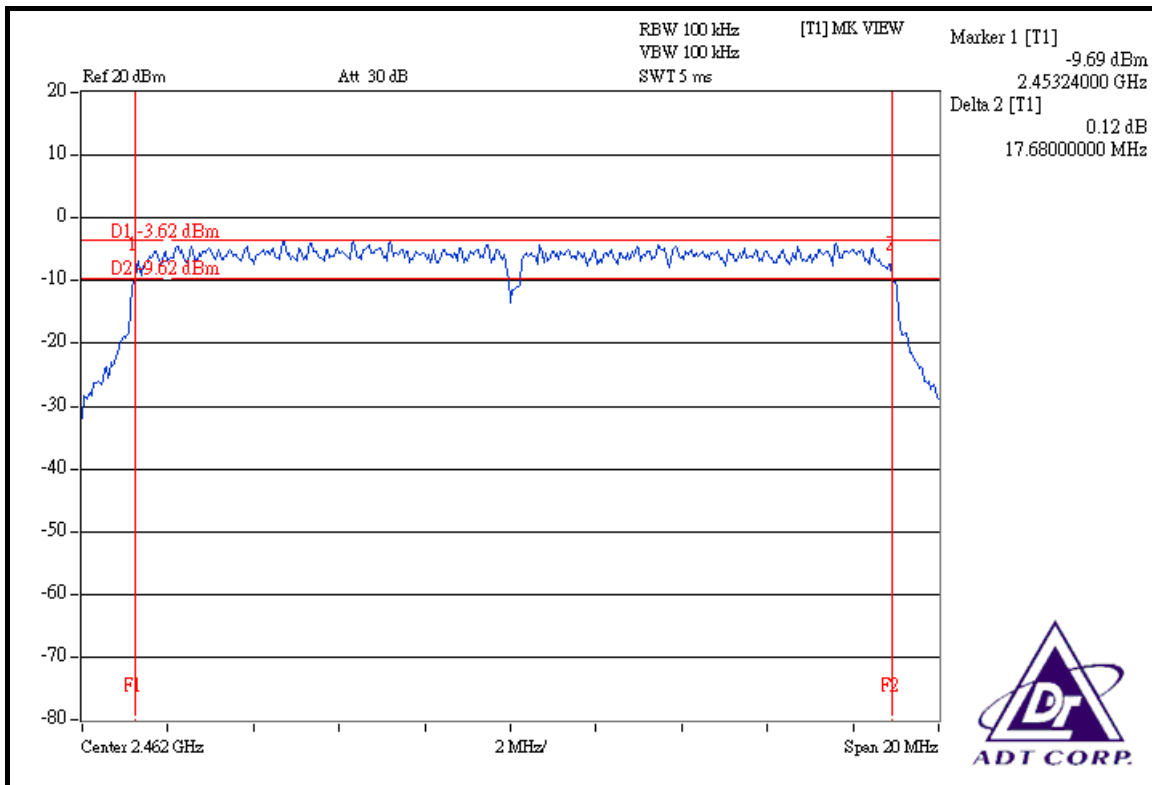
FOR CHAIN 0: CH 1



CH 6

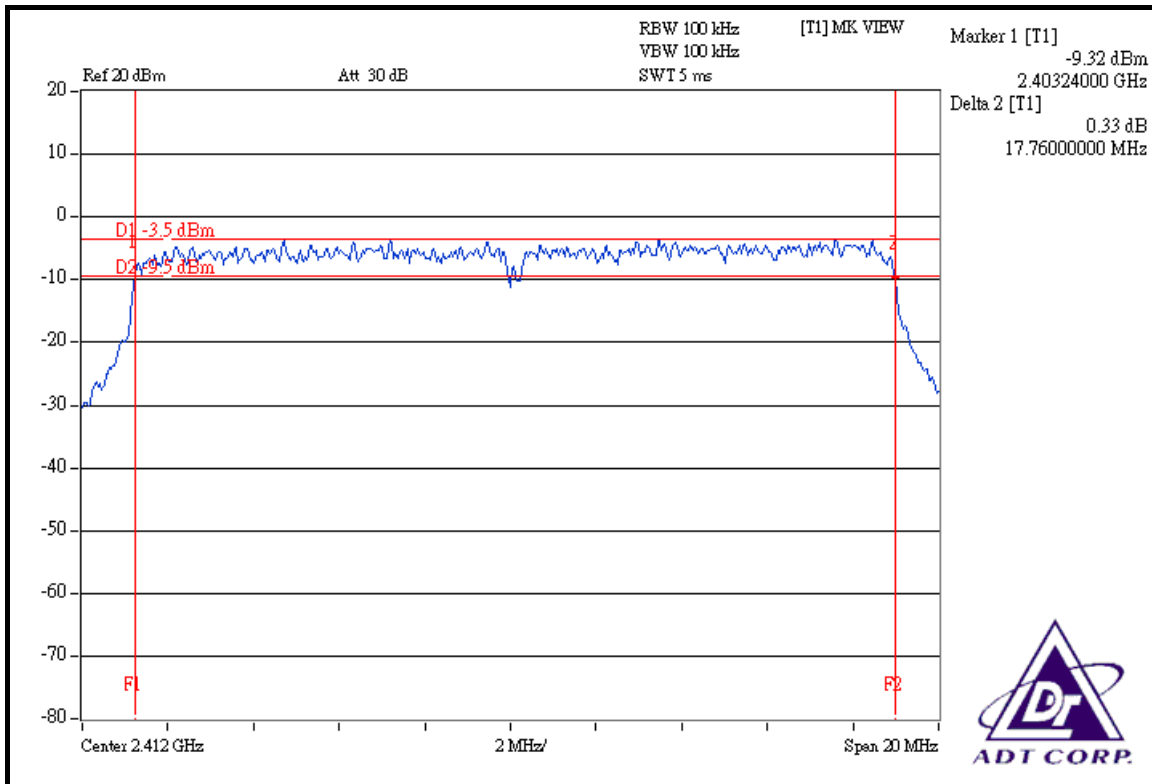


CH 11

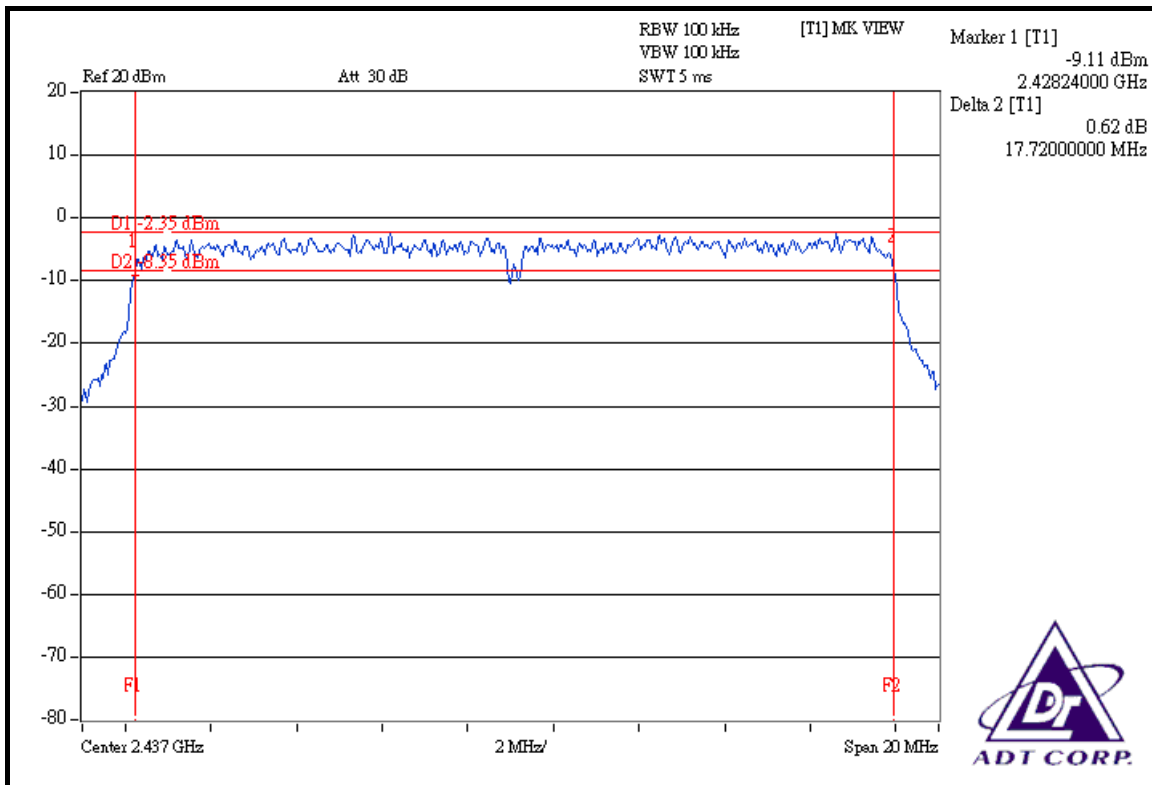




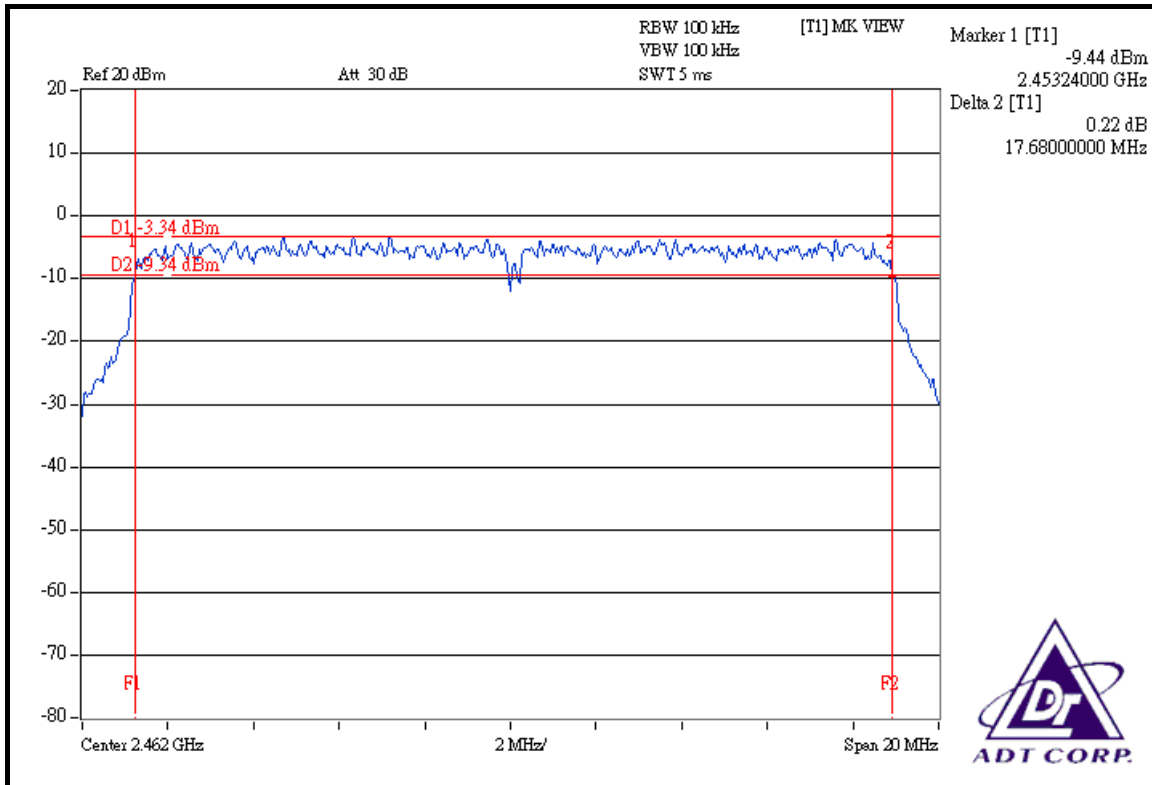
FOR CHAIN 1: CH 1



CH 6



CH 11



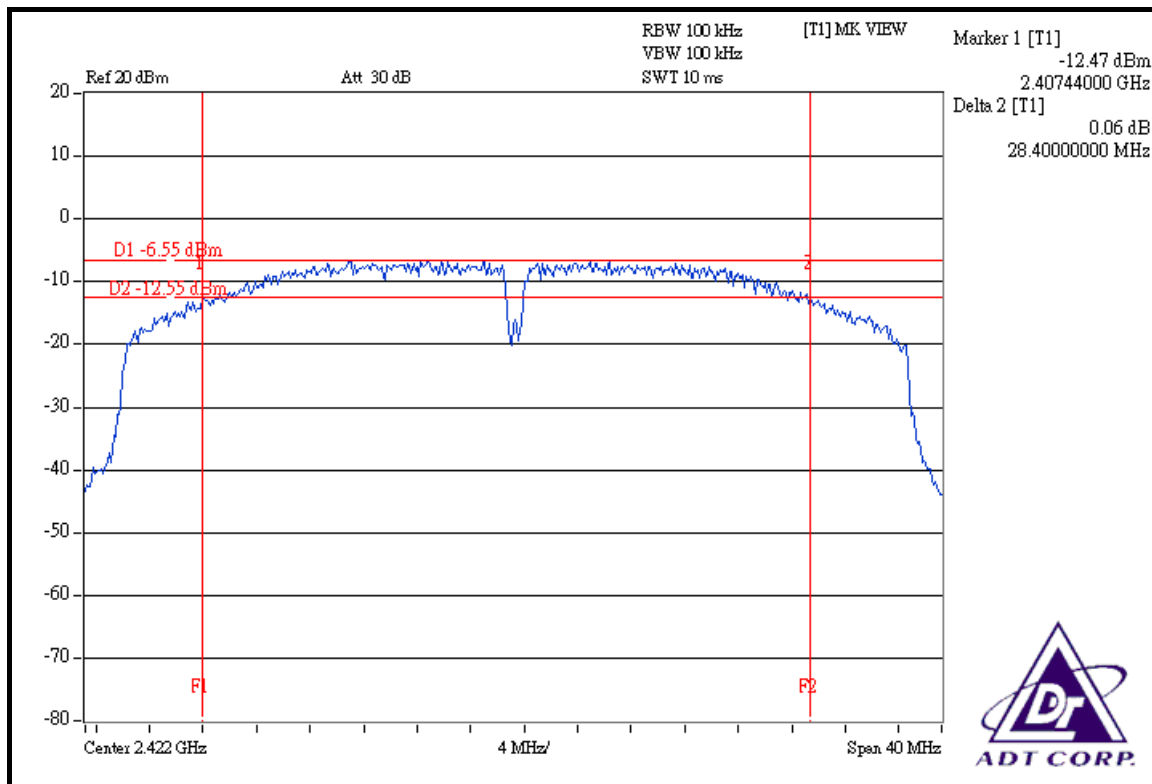


DRAFT 802.11n (40MHz) OFDM MODULATION

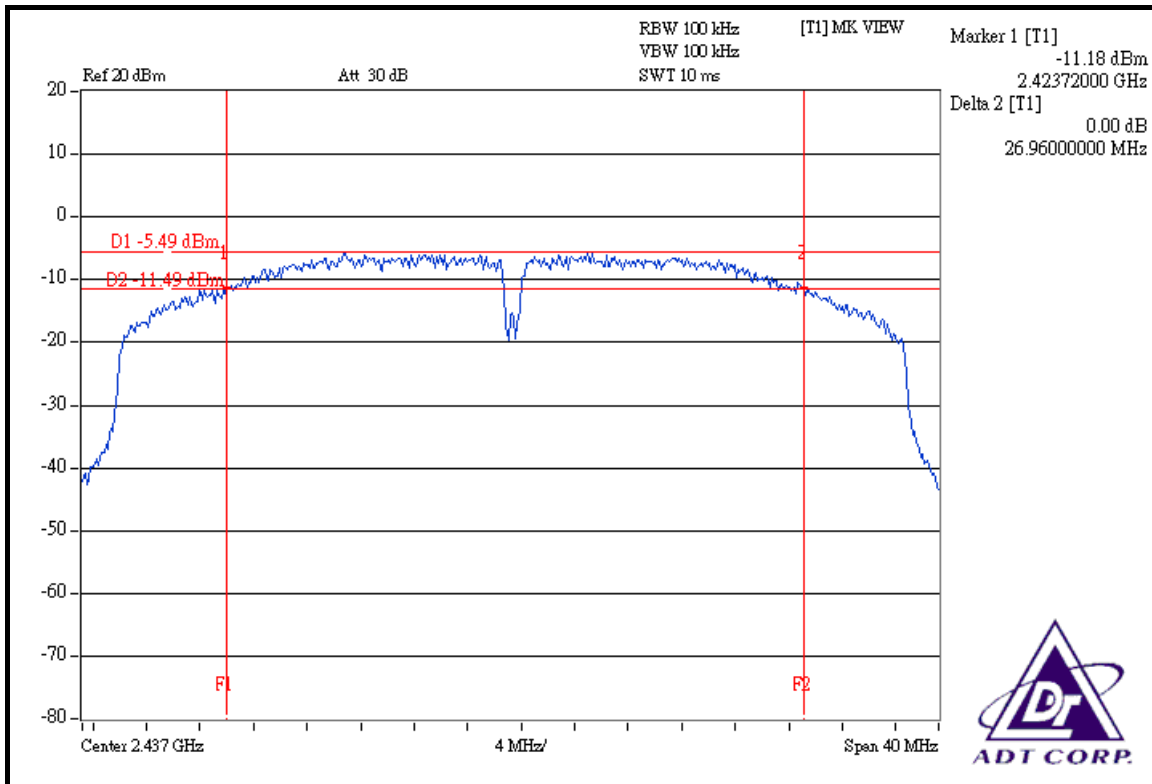
MODULATION TYPE	BPSK	TRANSFER RATE	15.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	27deg.C, 65% RH, 991hPa
TESTED BY	Match Tsui		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
1	2422	28.40	27.04	0.5	PASS
4	2437	26.96	27.12	0.5	PASS
7	2452	27.52	27.76	0.5	PASS

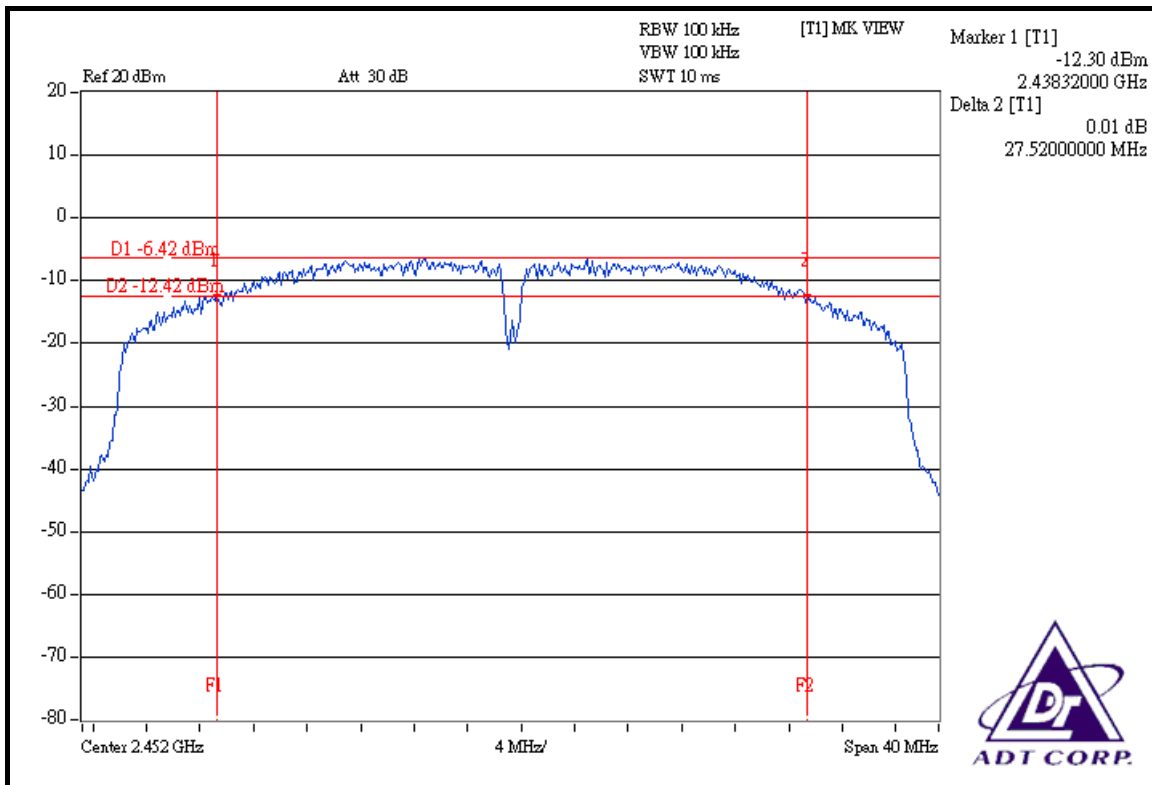
FOR CHAIN 0: CH 1



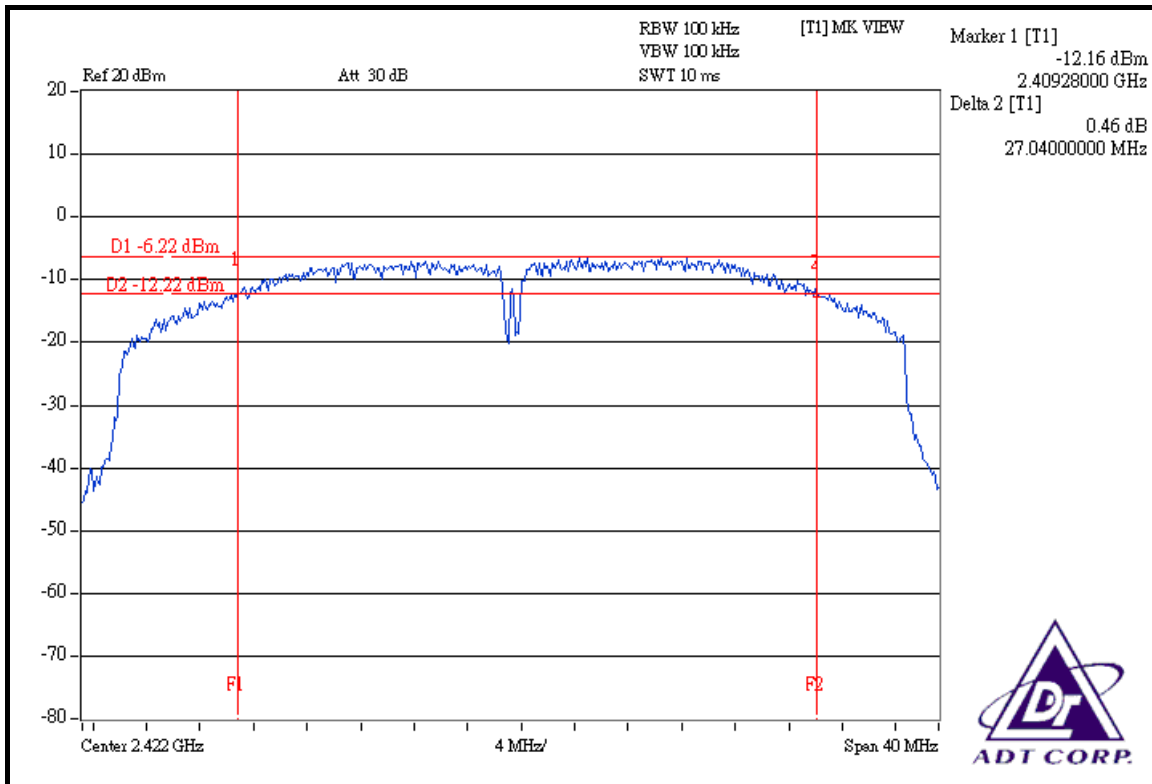
CH 4



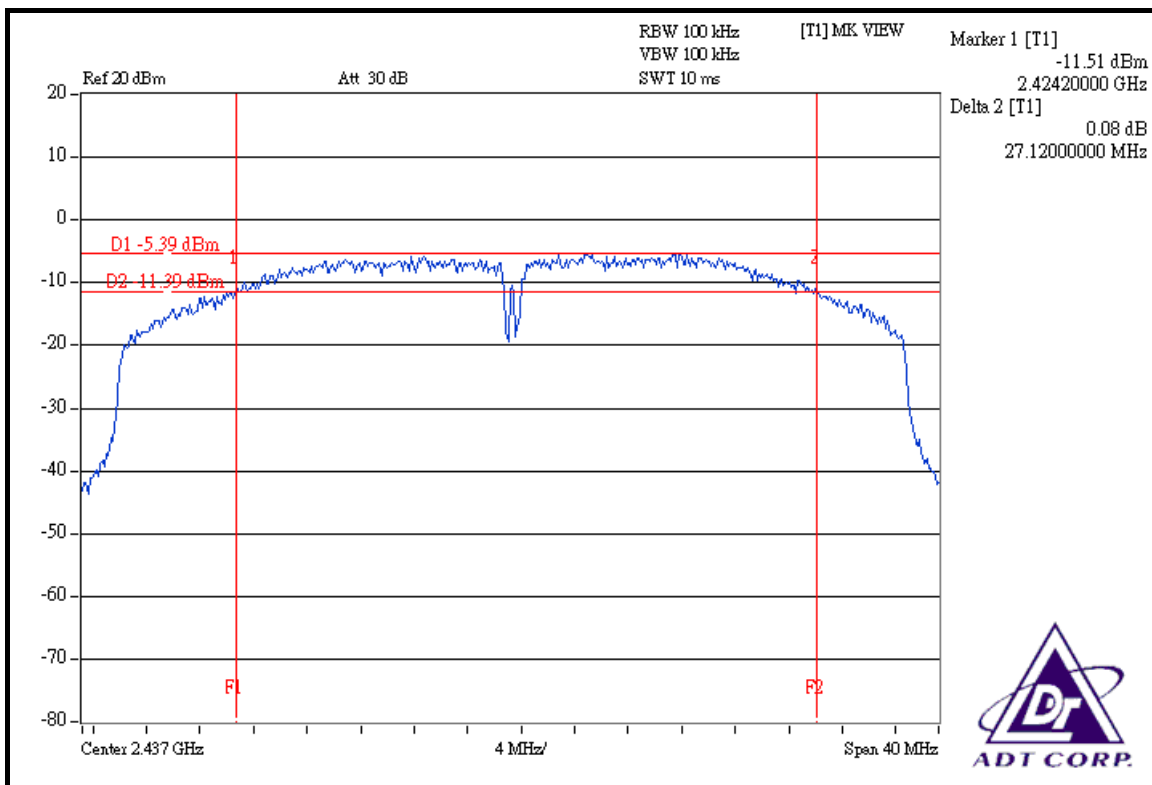
CH 7



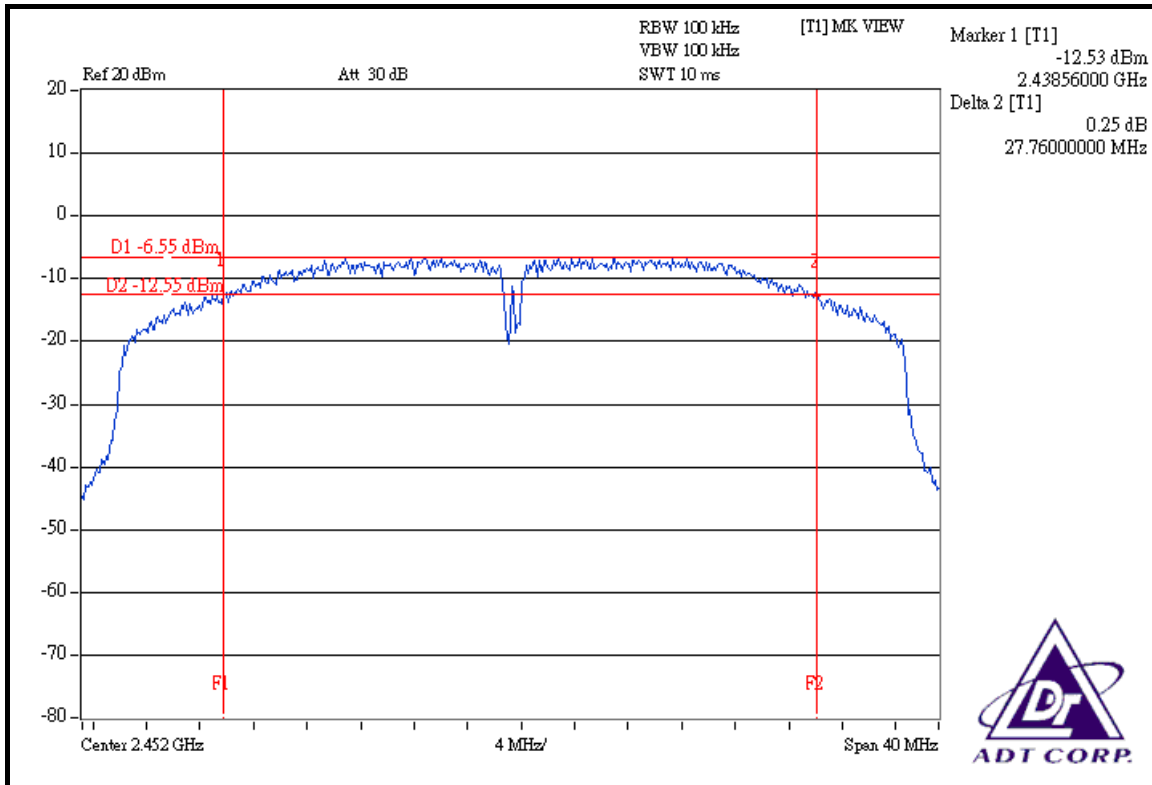
FOR CHAIN 1: CH 1



CH 4



CH 7





4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSP 40	100040	Apr. 11, 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	ENVIRONMENTAL CONDITIONS	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	90.365	19.56	30	PASS
6	2437	114.288	20.58	30	PASS
11	2462	90.573	19.57	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	79.616	19.01	30	PASS
6	2437	101.859	20.08	30	PASS
11	2462	80.910	19.08	30	PASS



DRAFT 802.11n (20MHz) OFDM MODULATION

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

CHAN.	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)		PEAK POWER OUTPUT (dBm)		TOTAL PEAK POWER (mW)	TOTAL PEAK POWER (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1				
1	2412	40.551	40.644	16.08	16.09	81.195	19.10	30	PASS
6	2437	50.350	50.234	17.02	17.01	100.584	20.03	30	PASS
11	2462	40.644	40.272	16.09	16.05	80.916	19.08	30	PASS

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		

CHAN.	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)		PEAK POWER OUTPUT (dBm)		TOTAL PEAK POWER (mW)	TOTAL PEAK POWER (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1				
1	2422	31.769	31.915	15.02	15.04	63.684	18.04	30	PASS
4	2437	40.365	41.020	16.06	16.13	81.385	19.11	30	PASS
7	2452	31.842	32.211	15.03	15.08	64.053	18.07	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	Apr. 11, 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

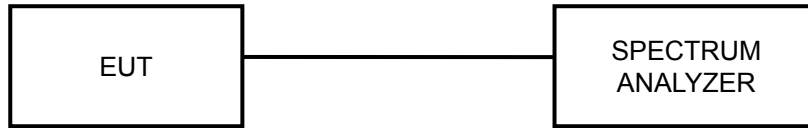
The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time = span/3kHz. The power spectral density was measured and recorded.

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



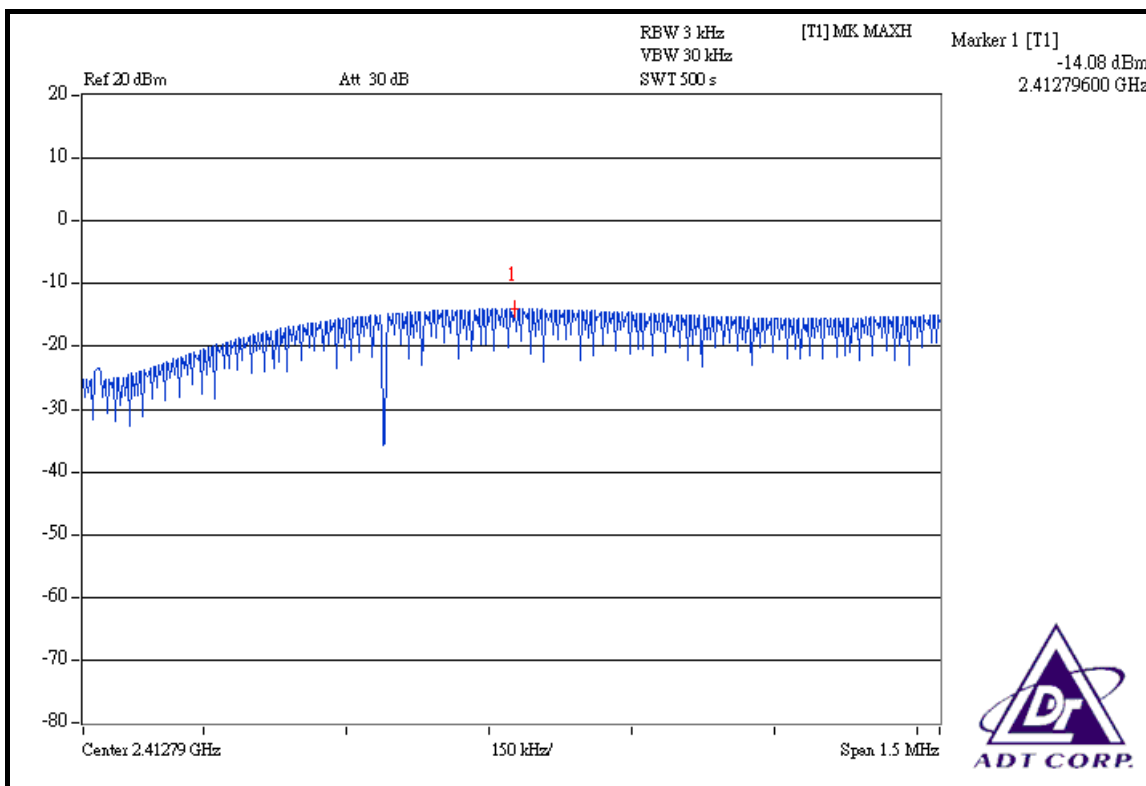
4.5.7 TEST RESULTS

802.11b DSSS MODULATION

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

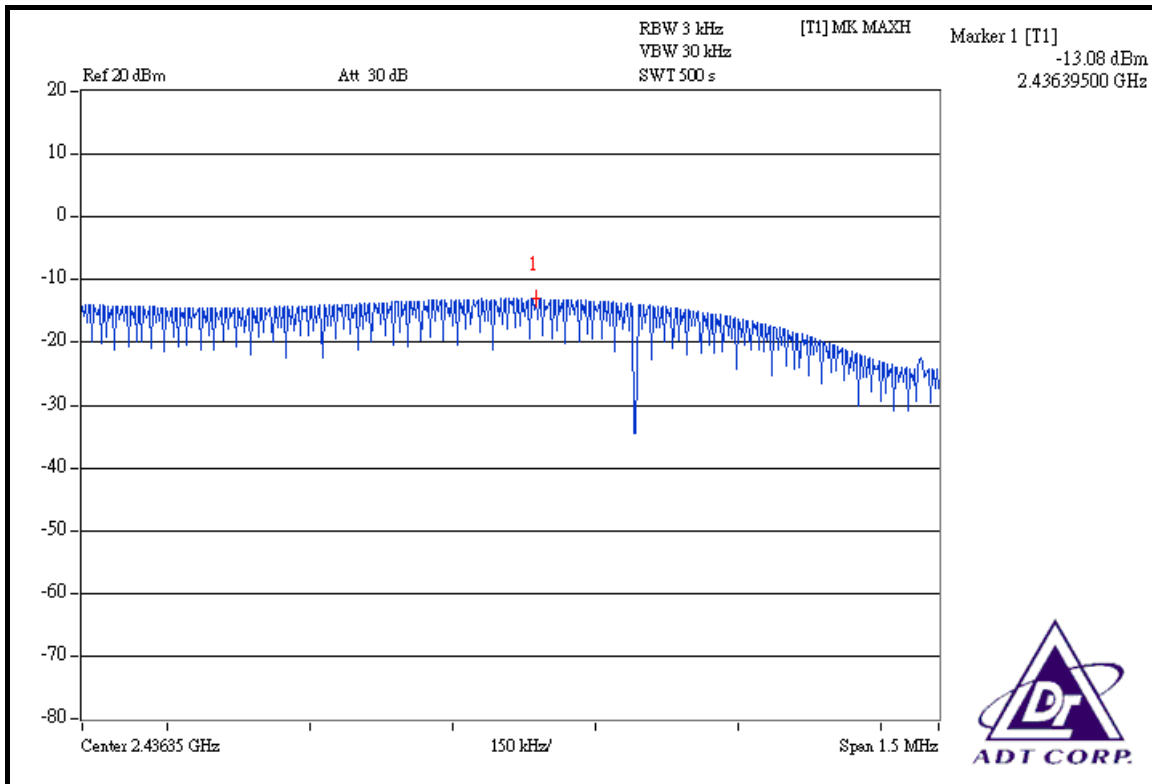
CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS / FAIL
1	2412	-14.08	8	PASS
6	2437	-13.08	8	PASS
11	2462	-13.95	8	PASS

CH 1

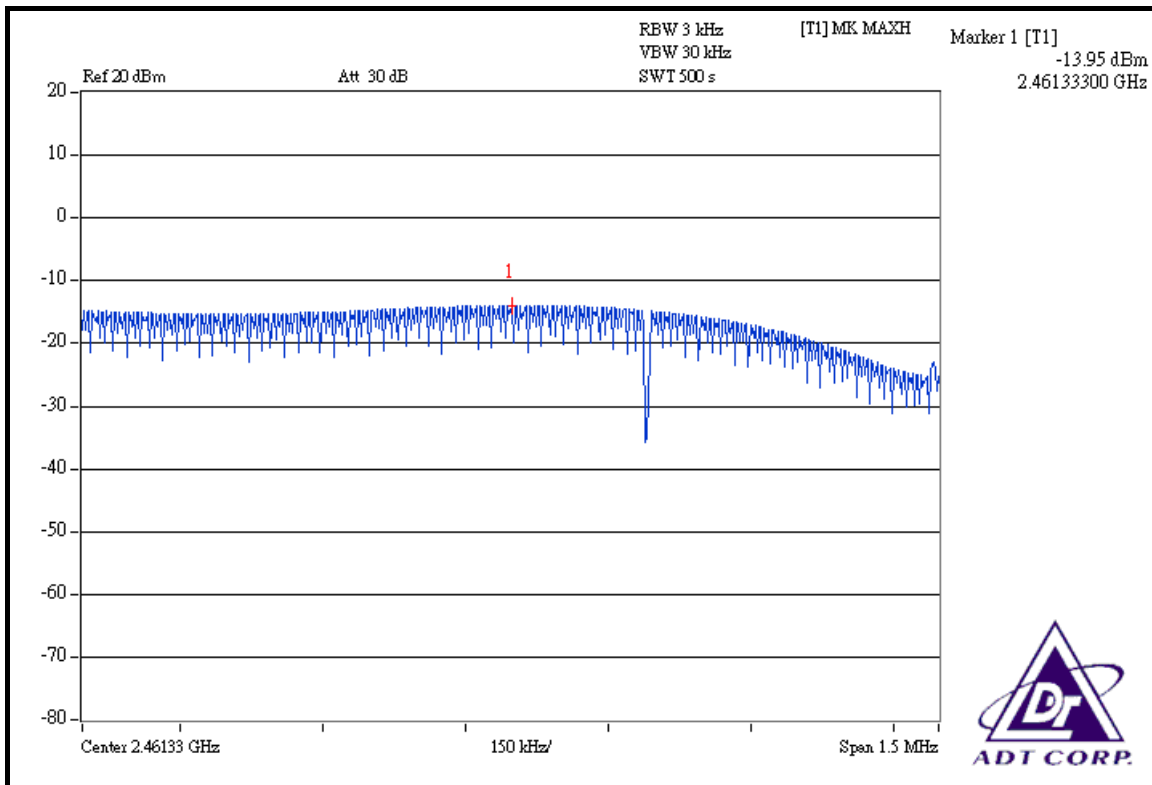




CH 6



CH 11



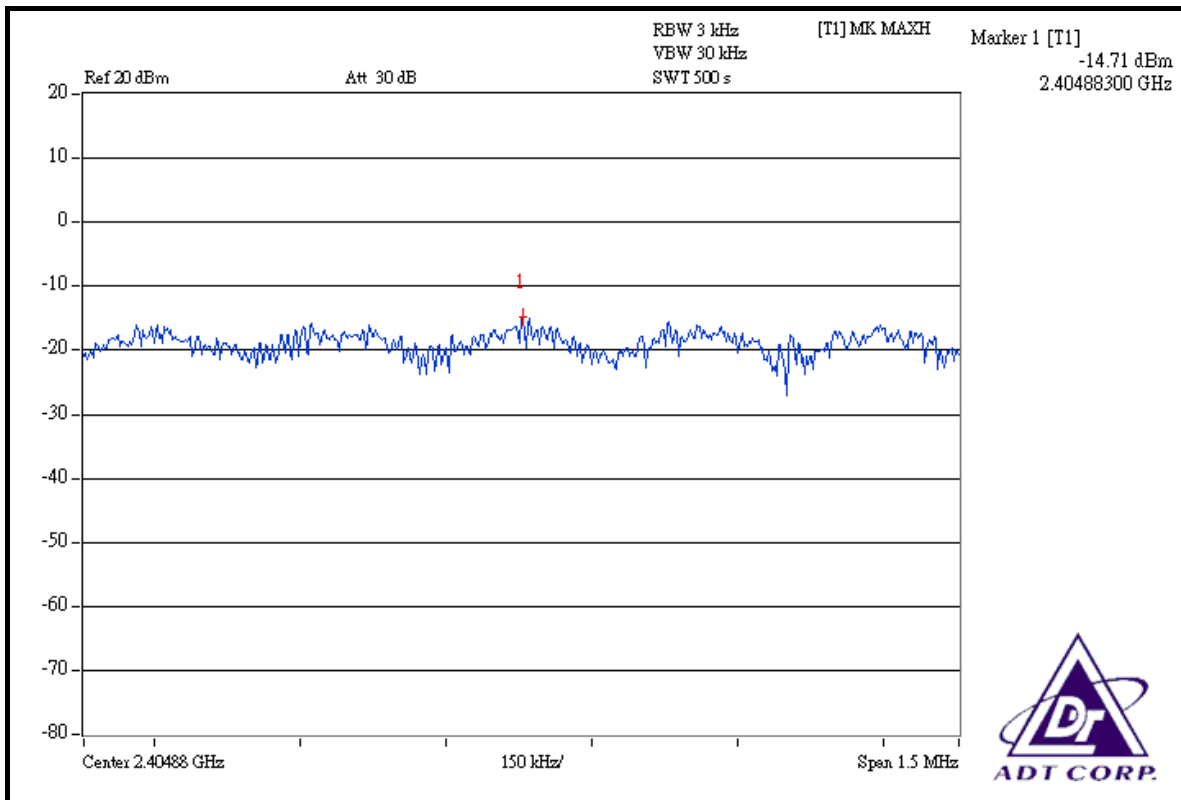


802.11g OFDM MODULATION

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

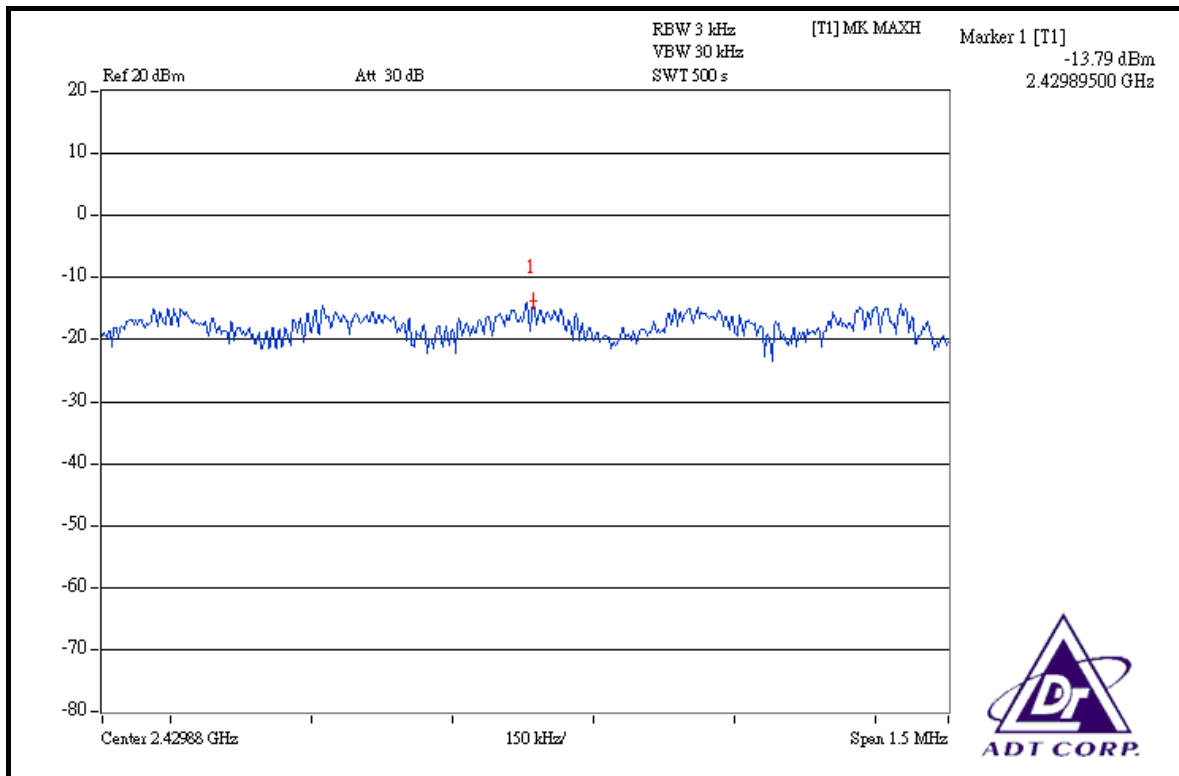
CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS / FAIL
1	2412	-14.71	8	PASS
6	2437	-13.79	8	PASS
11	2462	-14.82	8	PASS

CH 1

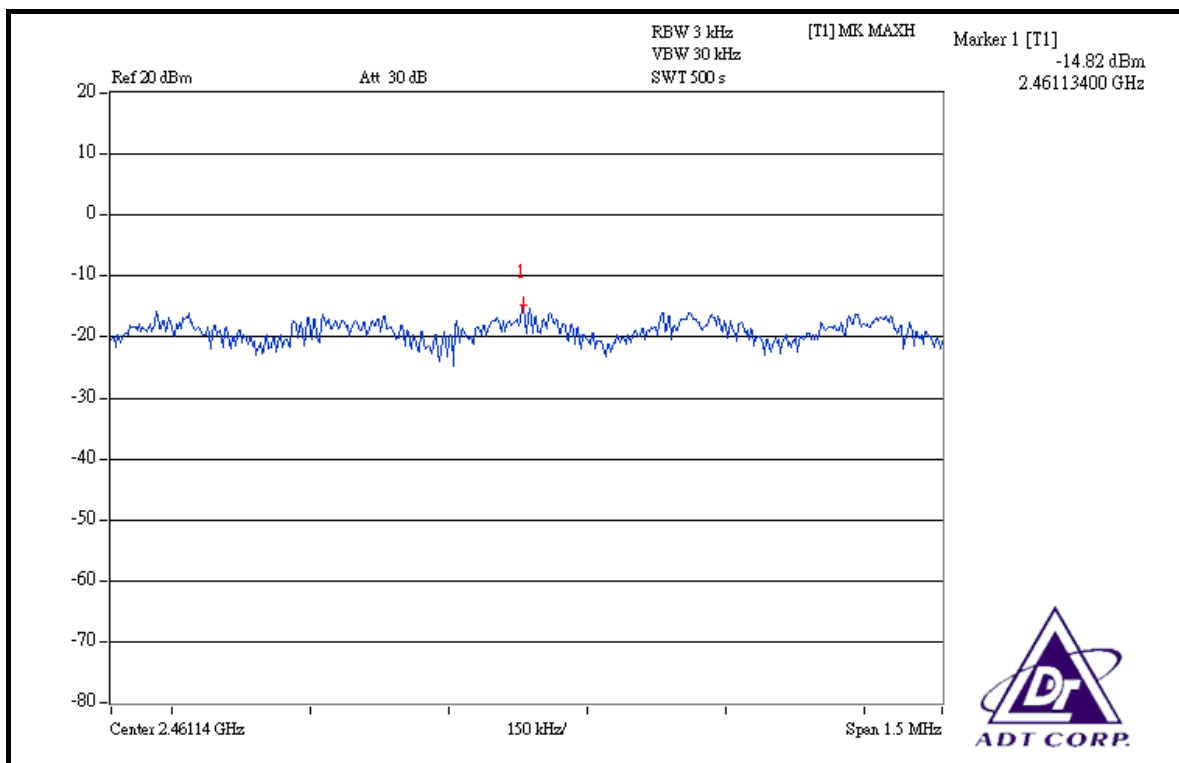




CH 6



CH 11



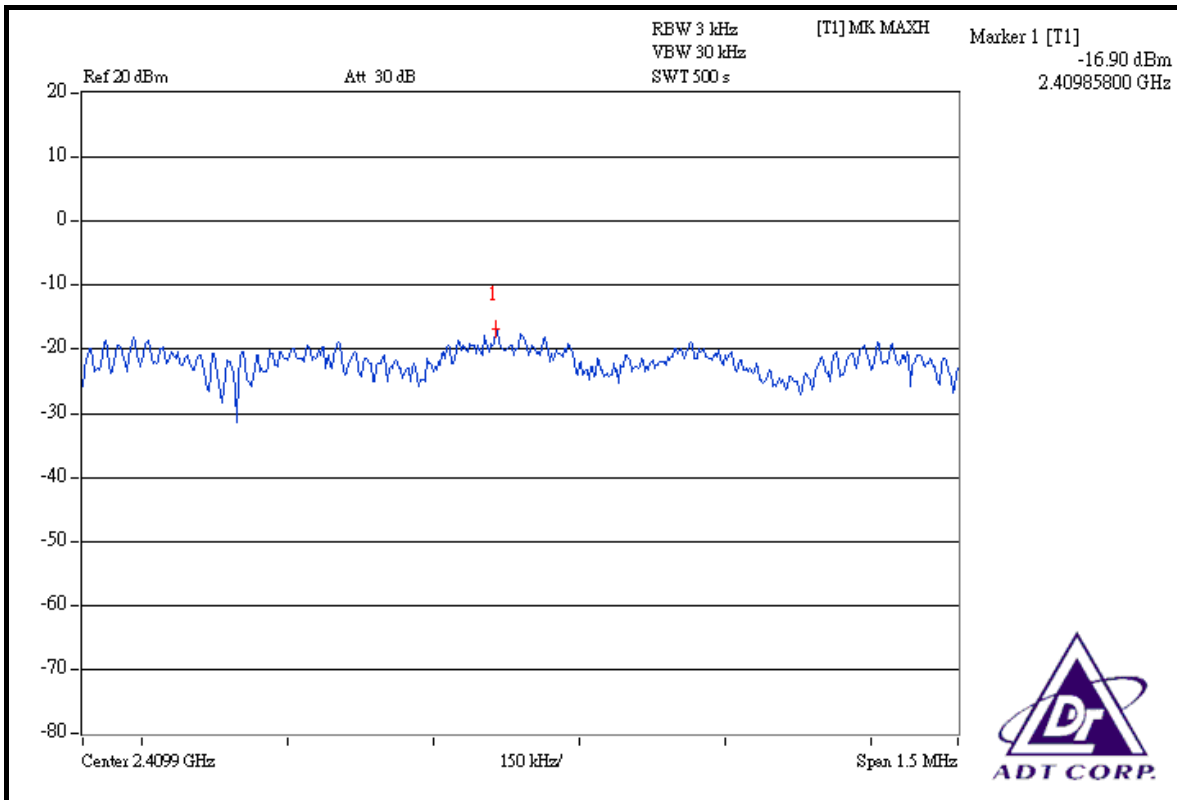


DRAFT 802.11n (20MHz) OFDM MODULATION

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

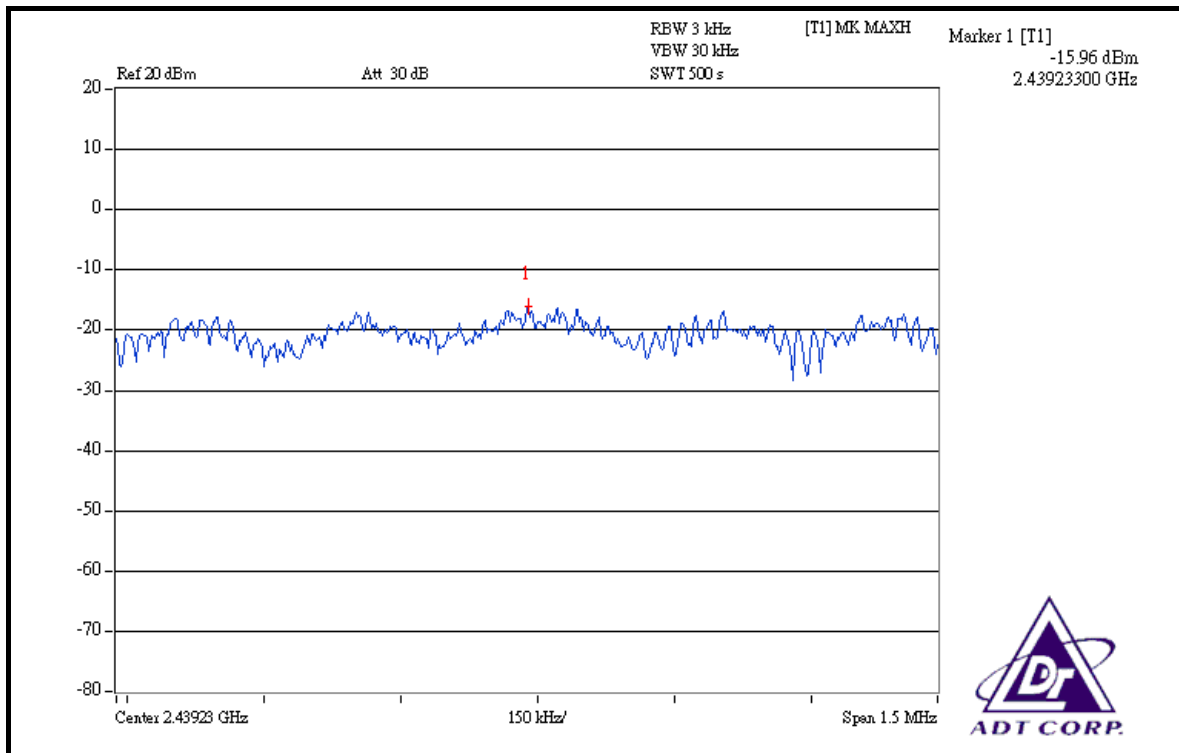
CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (mW)		RF POWER LEVEL IN 3kHz BW (dBm)		TOTAL POWER DENSITY (mW)	TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1				
1	2412	0.020	0.043	-16.90	-13.67	0.063	-11.98	8	PASS
6	2437	0.025	0.058	-15.96	-12.38	0.083	-10.80	8	PASS
11	2462	0.020	0.047	-17.08	-13.29	0.067	-11.77	8	PASS

FOR CHAIN 0: CH 1

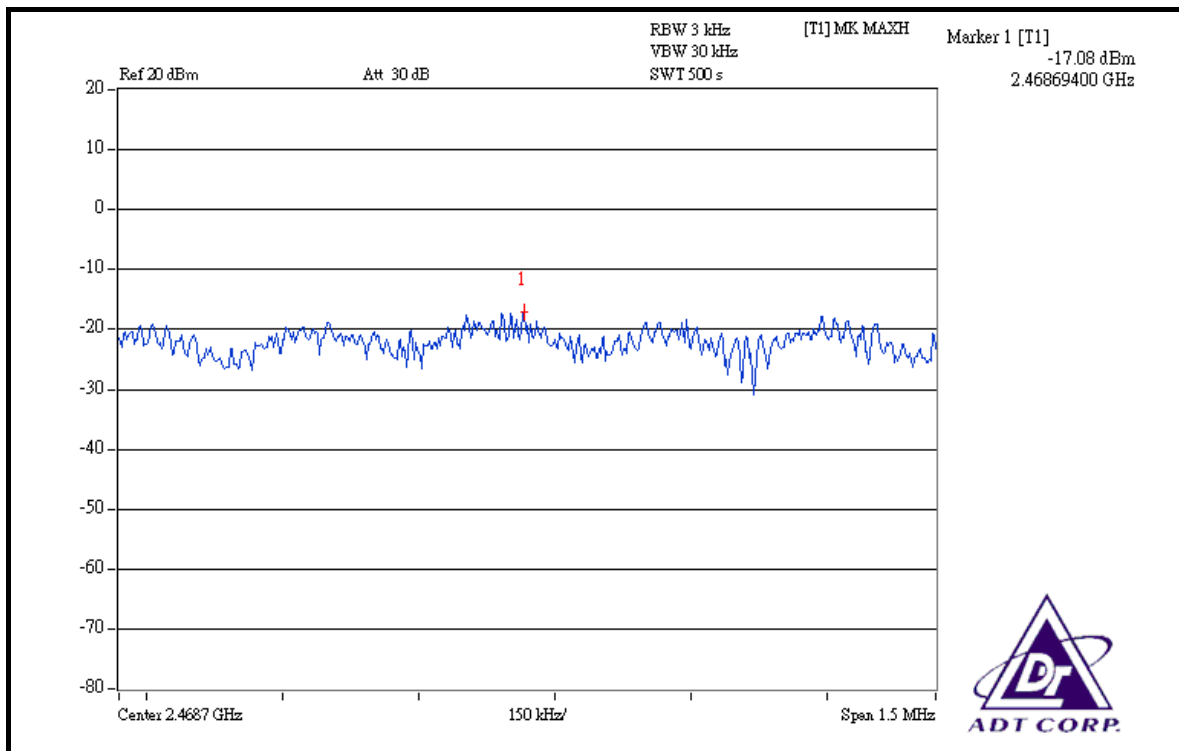




CH 6

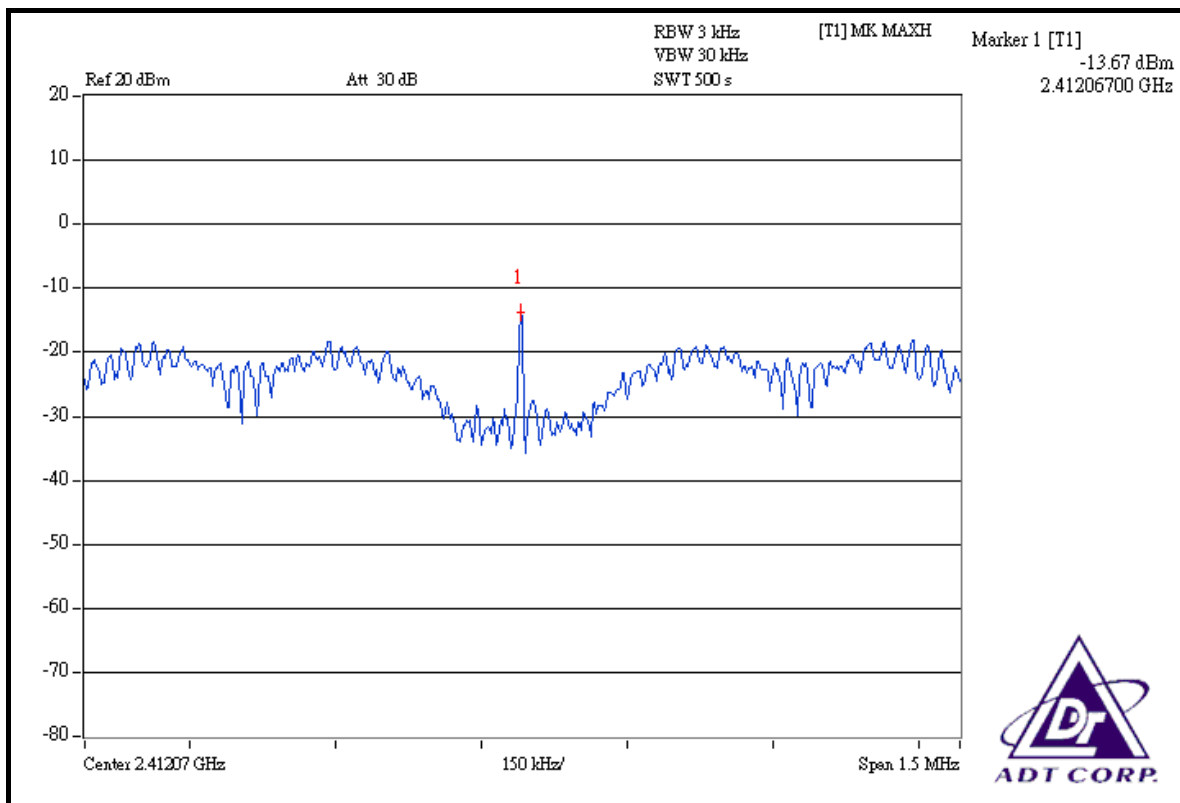


CH 11

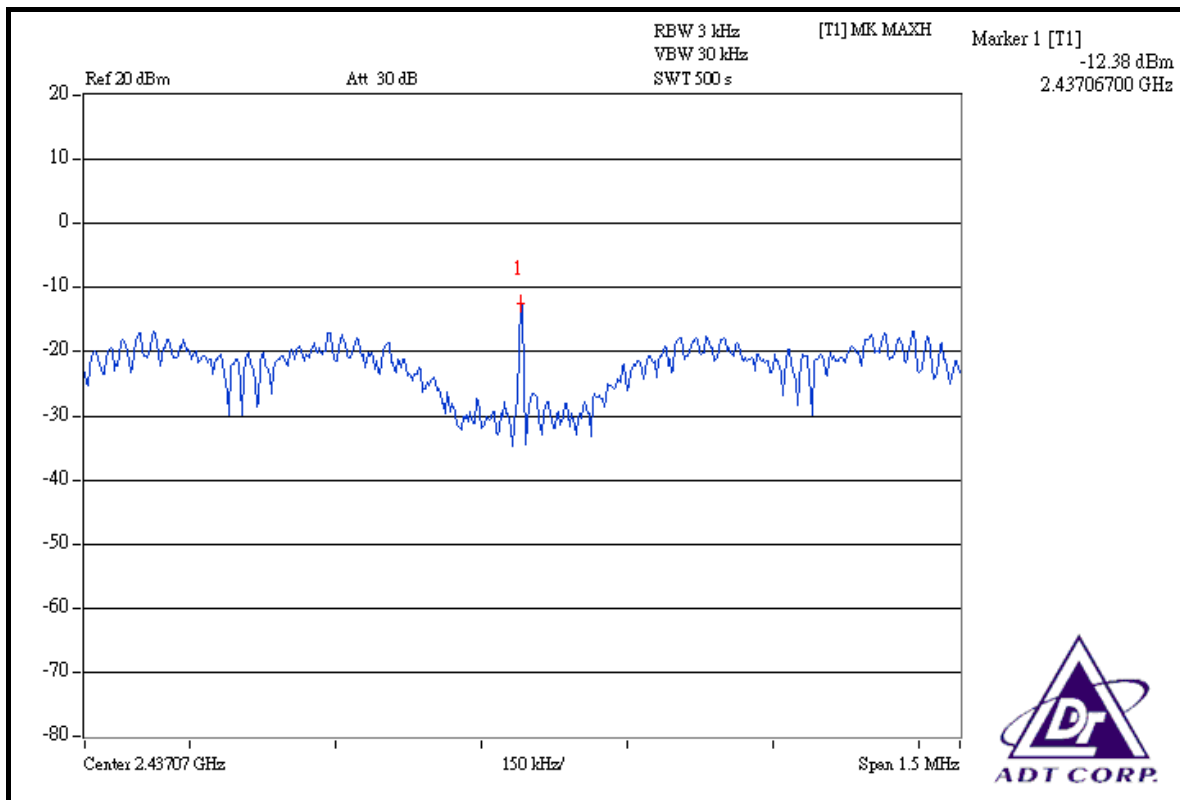




FOR CHAIN 1: CH 1

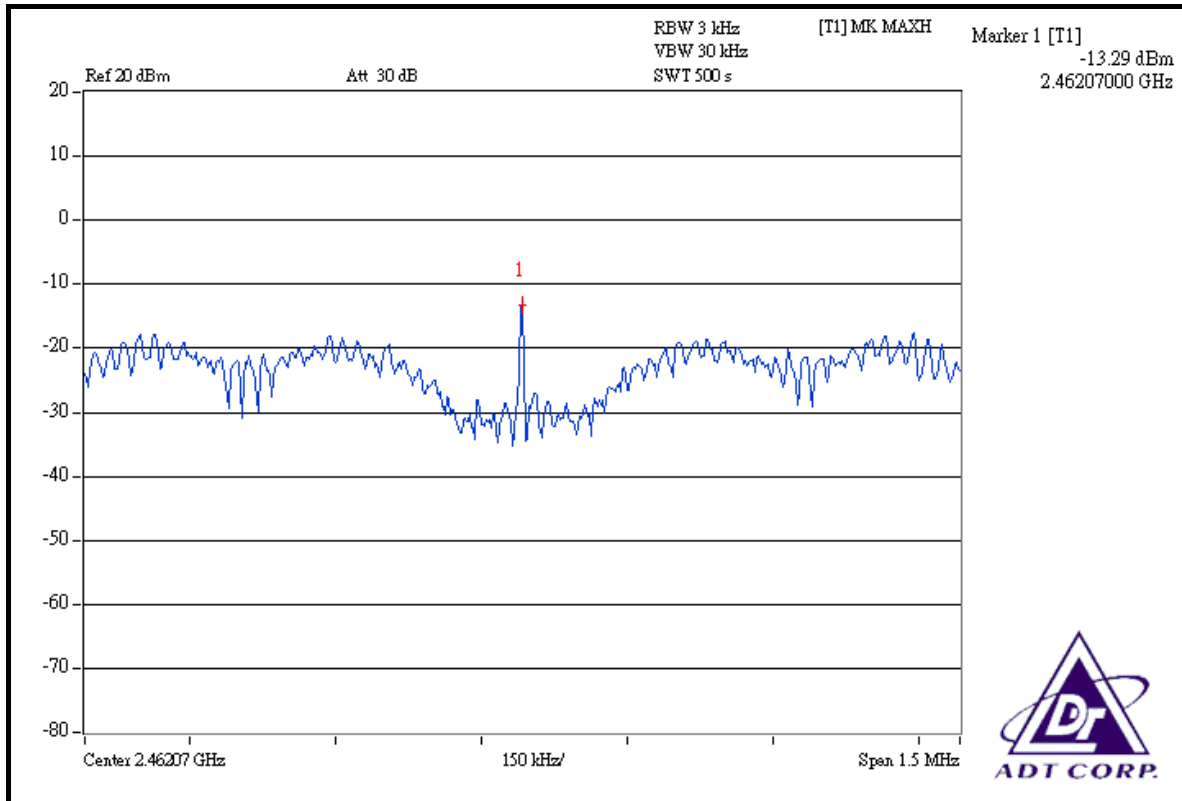


CH 6





CH 11



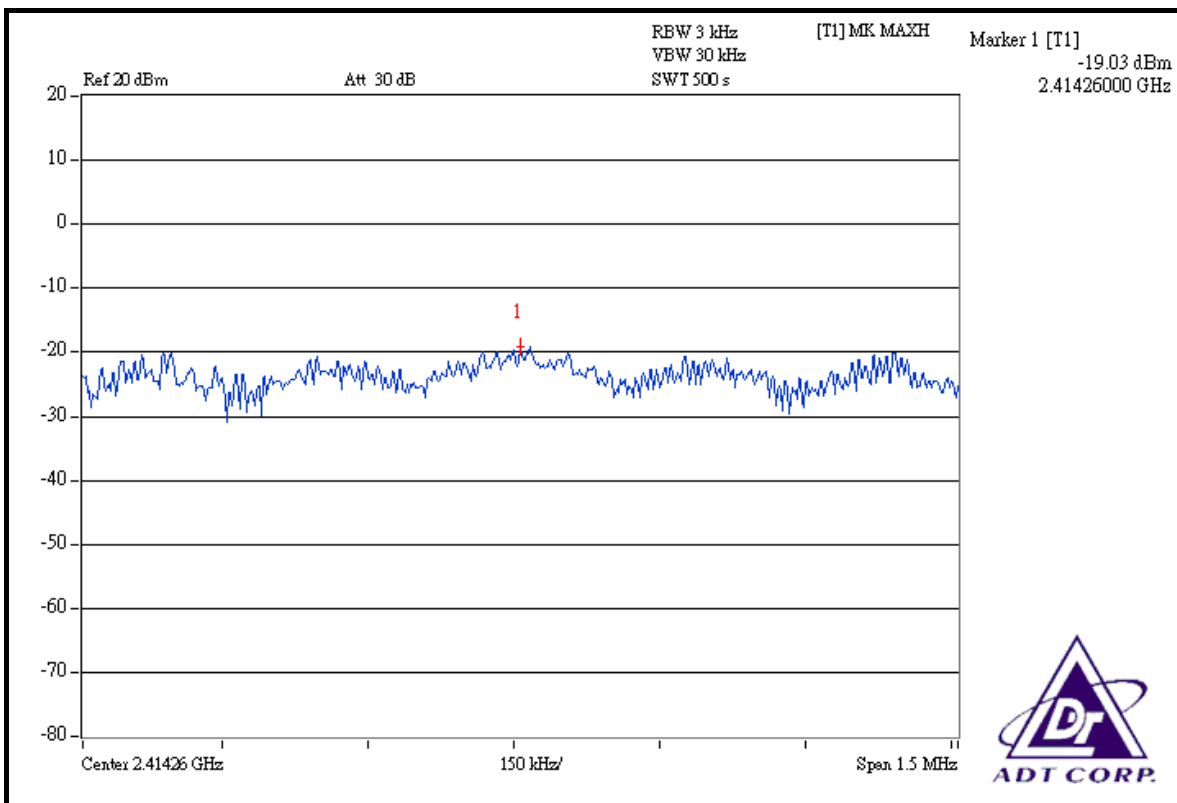


DRAFT 802.11n (40MHz) OFDM MODULATION

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

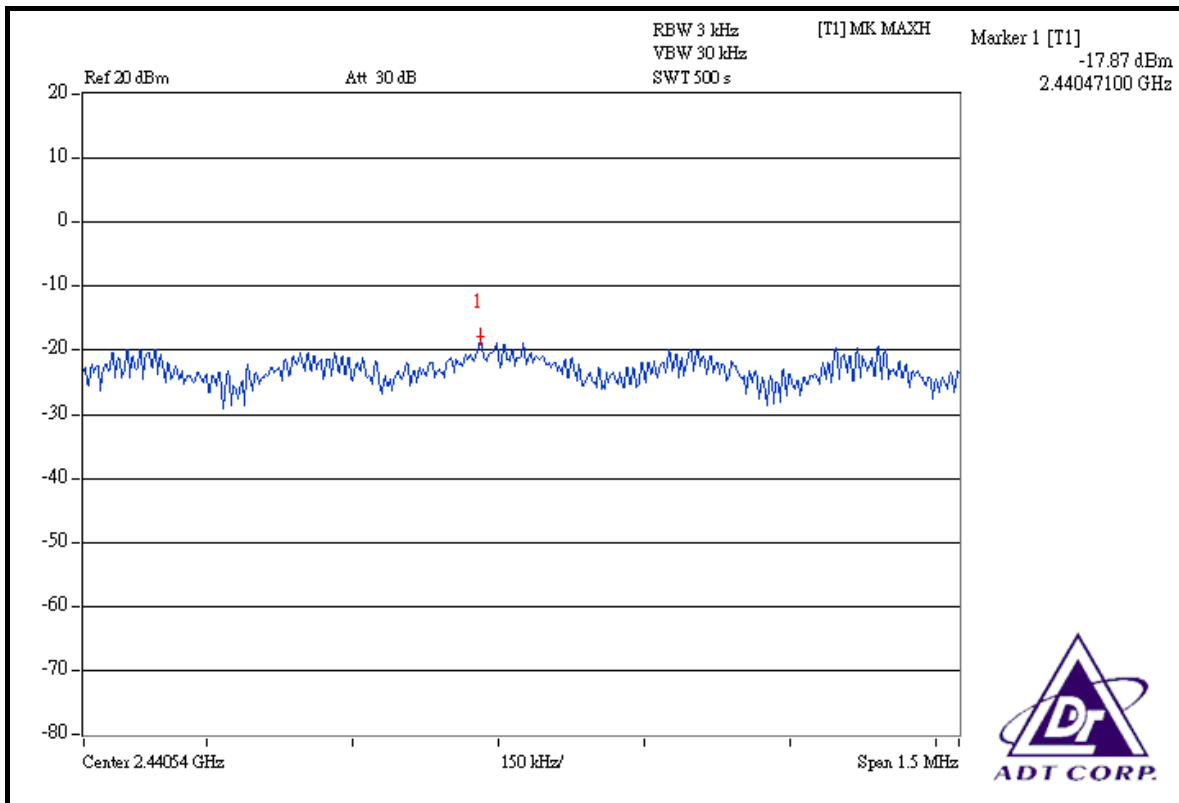
CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (mW)		RF POWER LEVEL IN 3kHz BW (dBm)		TOTAL POWER DENSITY (mW)	TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1	CHAIN 0	CHAIN 1				
1	2422	0.013	0.043	-19.03	-13.63	0.056	-12.53	8	PASS
4	2437	0.016	0.052	-17.87	-12.85	0.068	-11.66	8	PASS
7	2452	0.013	0.047	-18.89	-13.32	0.060	-12.26	8	PASS

FOR CHAIN 0: CH 1

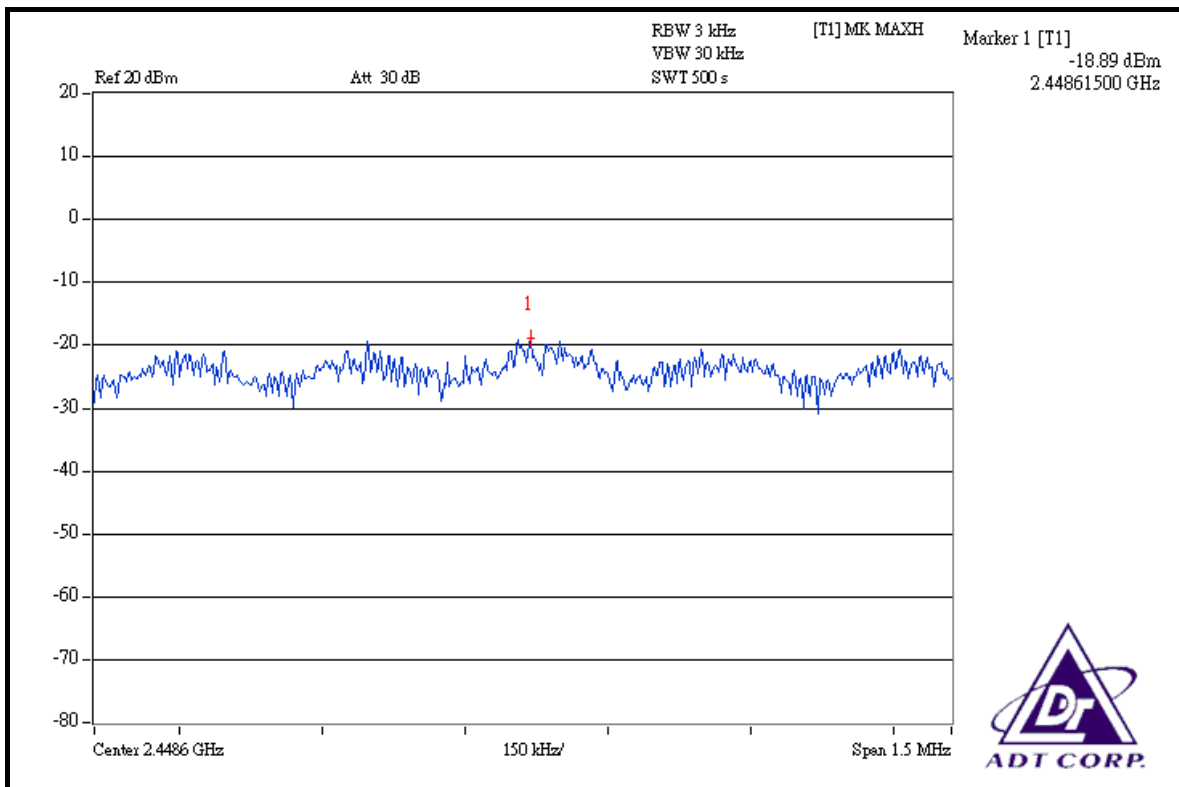




CH 4

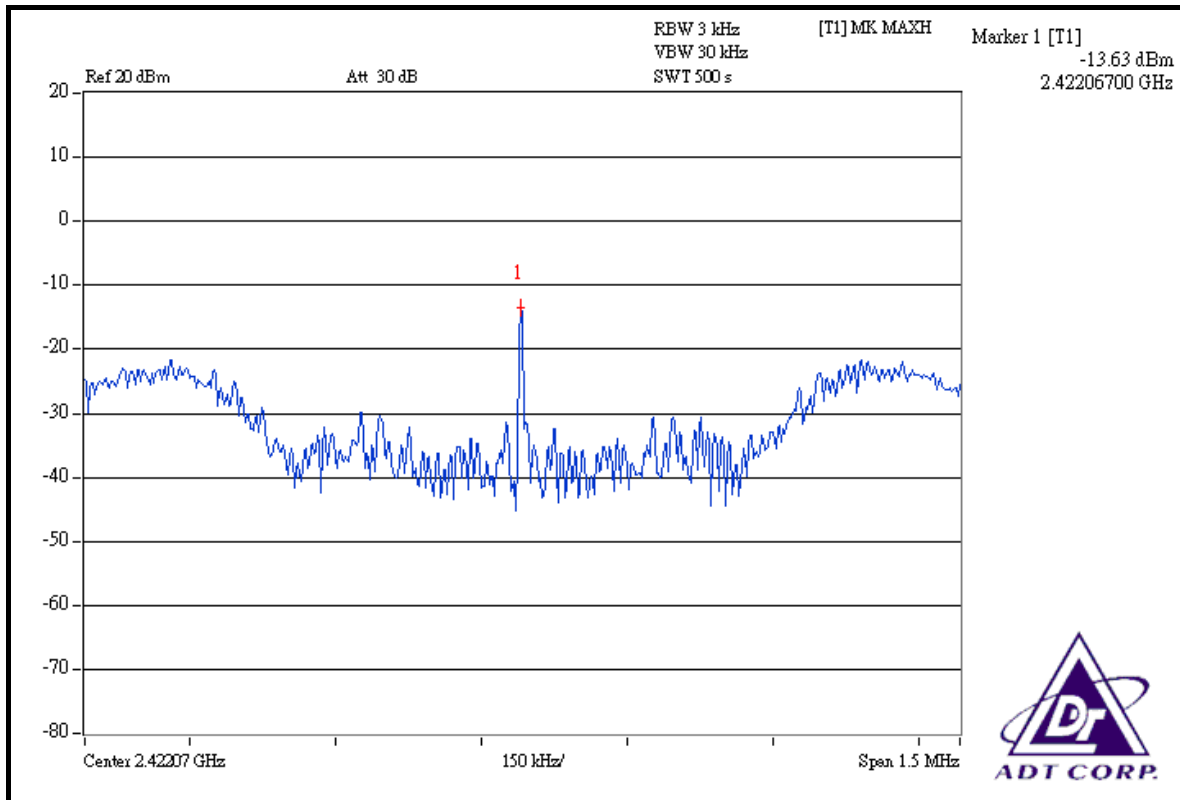


CH 7

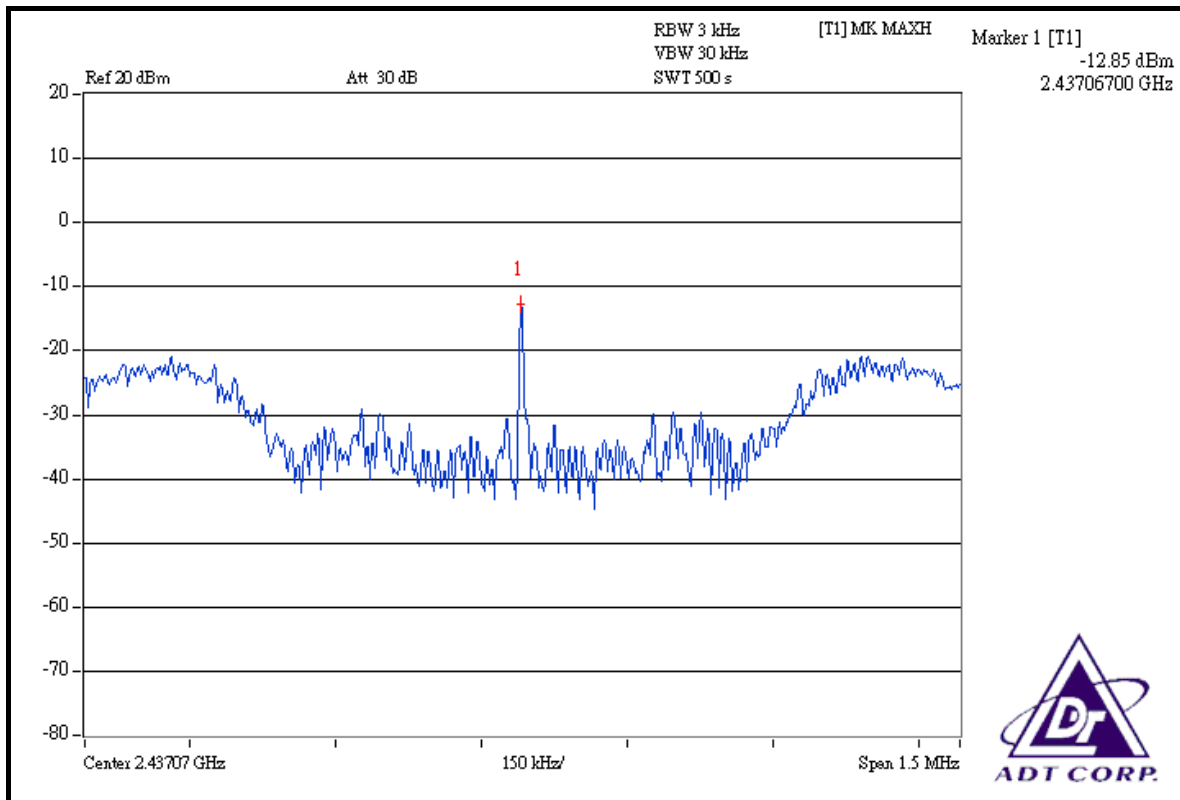




FOR CHAIN 1: CH 1

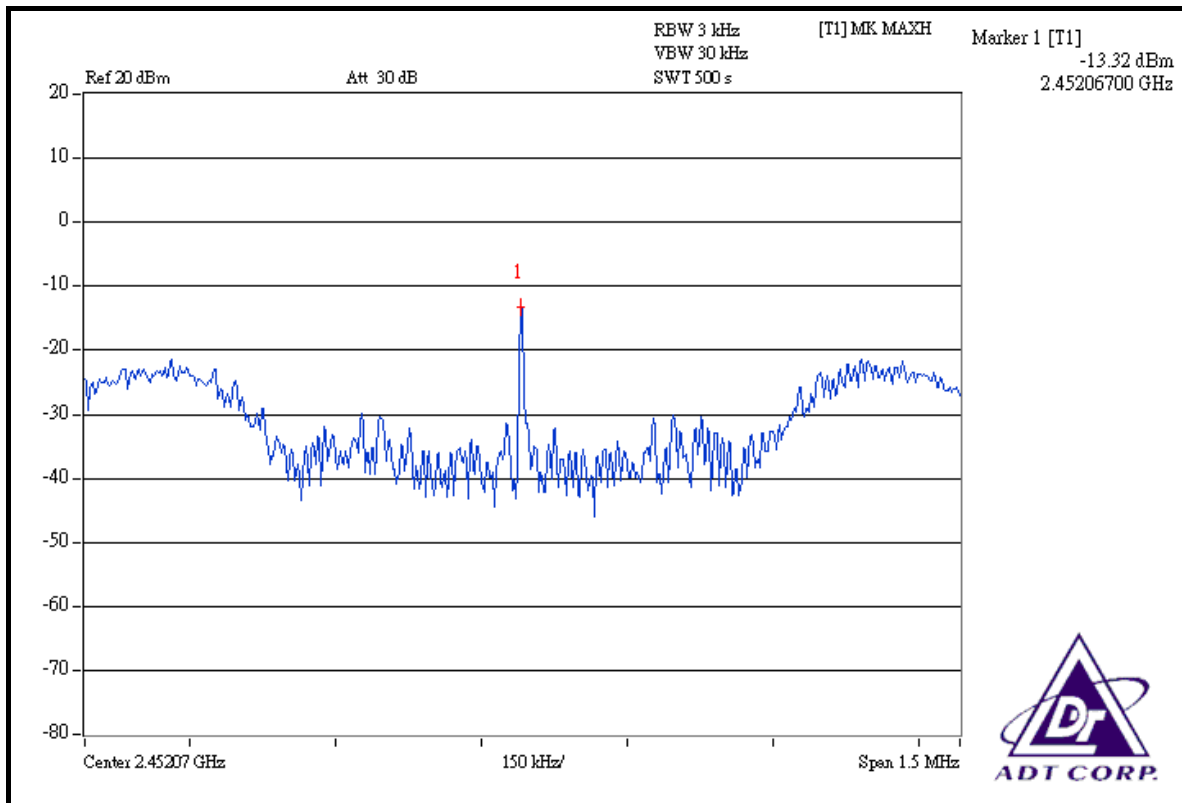


CH 4





CH 7





4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF BAND EDGES MEASUREMENT

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

4.6.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
802.11b, 802.11g:			
R&S SPECTRUM ANALYZER	FSP40	100040	Apr. 11, 2008
DRAFT 802.11n (20MHz), DRAFT 802.11n (40MHz):			
Test Receiver ROHDE & SCHWARZ	ESI7	838496/016	Dec. 29, 2007
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Dec. 01, 2007
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Jan. 04, 2008
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-405	Dec. 18, 2007
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170242	Jan. 16, 2008
Preamplifier Agilent	8449B	3008A1960	Oct. 30, 2007
Preamplifier Agilent	8447D	2944A10631	Oct. 30, 2007
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	230128/4	Nov. 14, 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	010303	NA
Antenna Tower Controller inn-co GmbH	CO2000	019303	NA
Turn Table ADT.	TT100.	TT93021704	NA
Turn Table Controller ADT.	SC100.	SC93021704	NA

NOTE: 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 loss cable. Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 10Hz bandwidth from band edge. The band edges was measured and recorded.

The spectrum plots (Peak RBW = VBW = 100kHz; 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 with suitable frequency span including 100MHz bandwidth from band edge. The band edges was measured and recorded.

The spectrum plots (Peak RBW = VBW = 100kHz; 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:

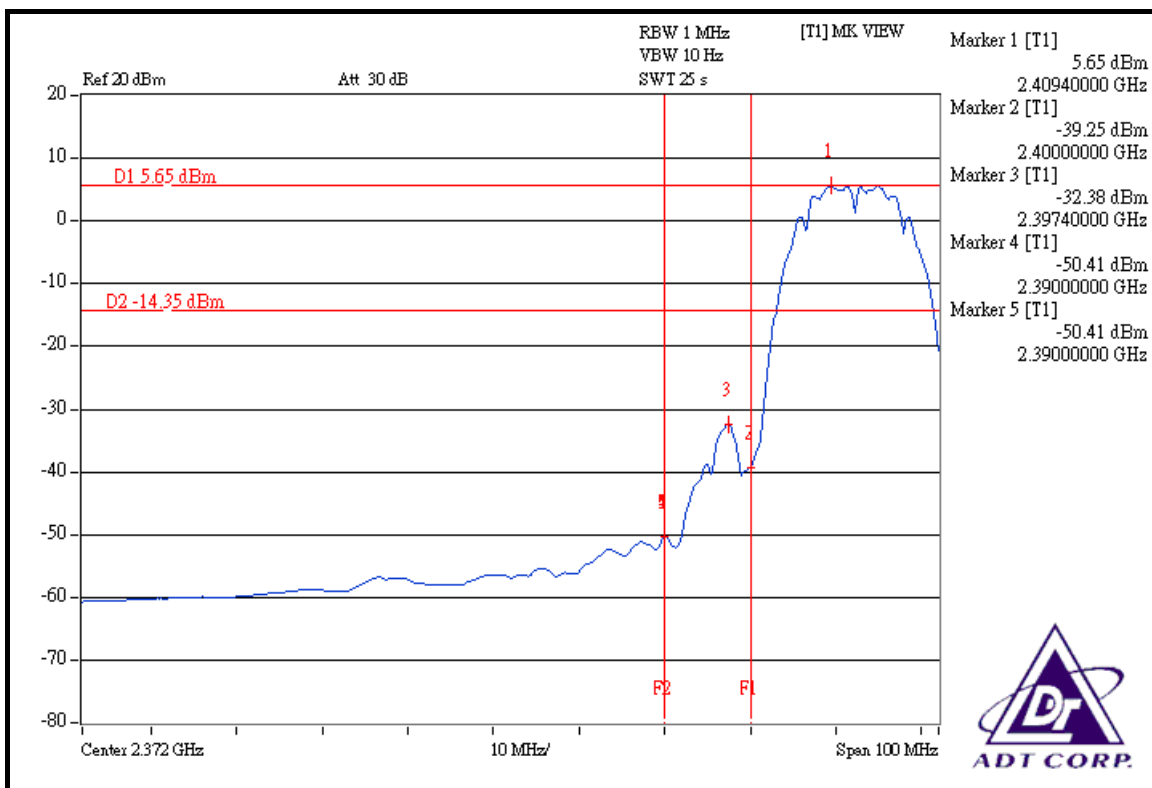
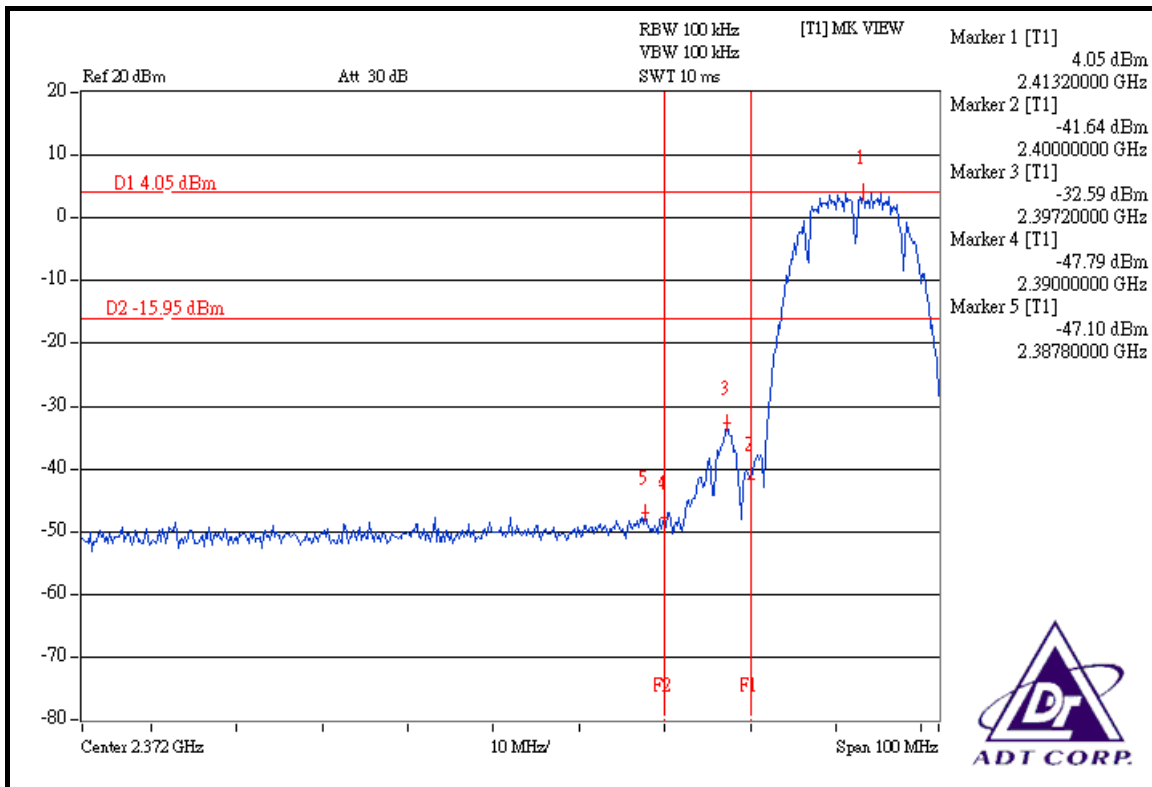
The band edge emission plot on the next page shows 51.15dBc between carrier maximum power and local maximum emission in restrict band (2.38780GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 111.18dBuV/m (Peak), so the maximum field strength in restrict band is $111.18 - 51.15 = 60.03$ dBuV/m which is under 74dBuV/m limit.

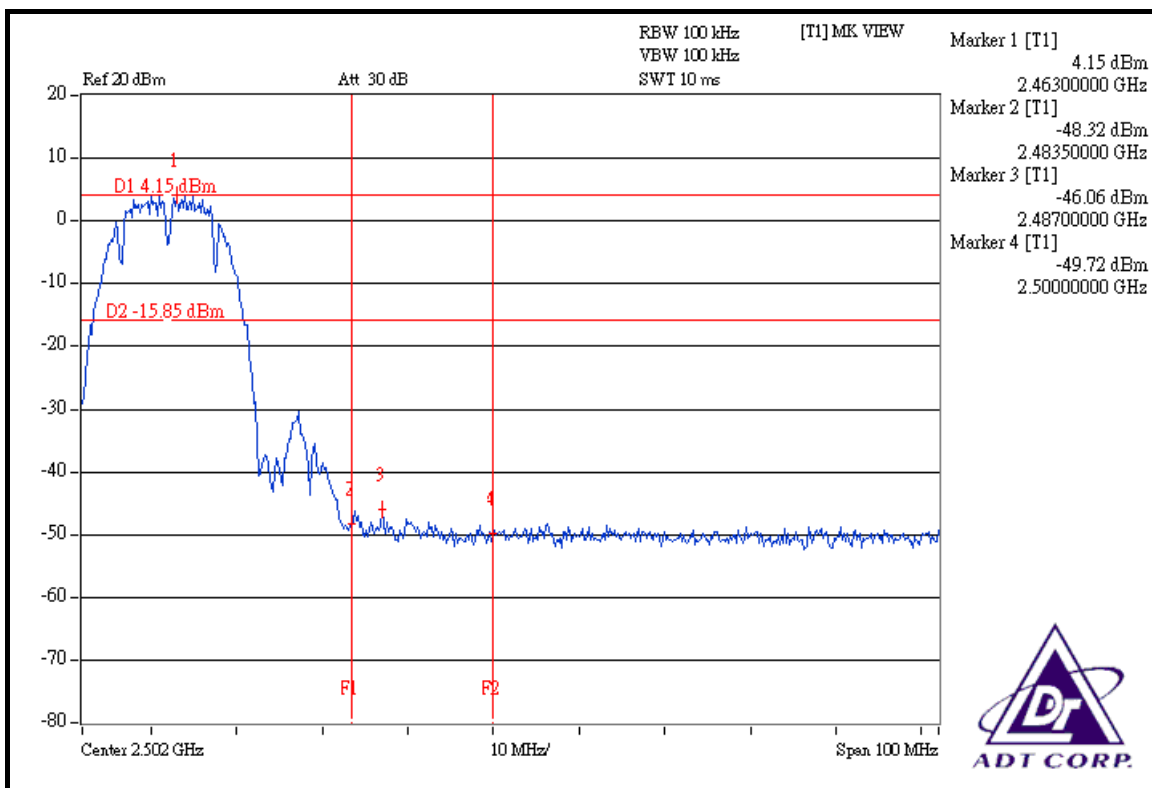
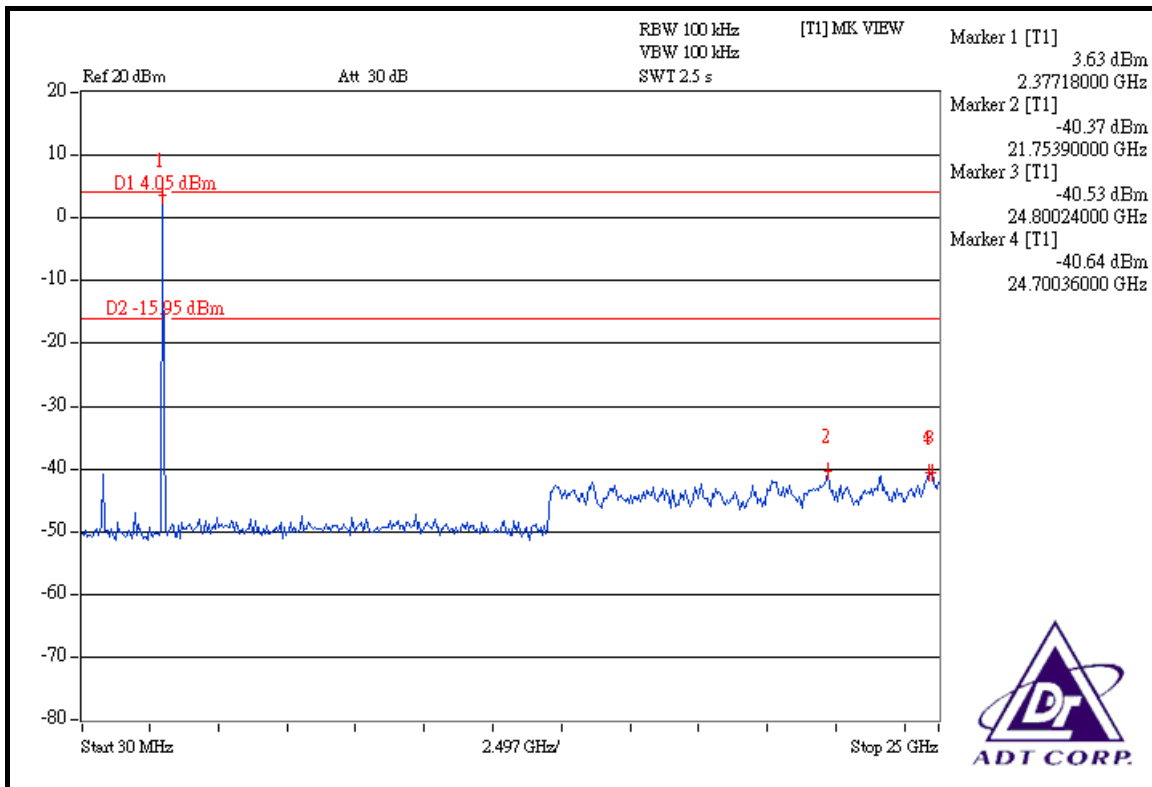
The band edge emission plot on the next page shows 56.06dBc between carrier maximum power and local maximum emission in restrict band (2.39000GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 106.85dBuV/m (Average), so the maximum field strength in restrict band is $106.85 - 56.06 = 50.79$ dBuV/m which is under 54dBuV/m limit.

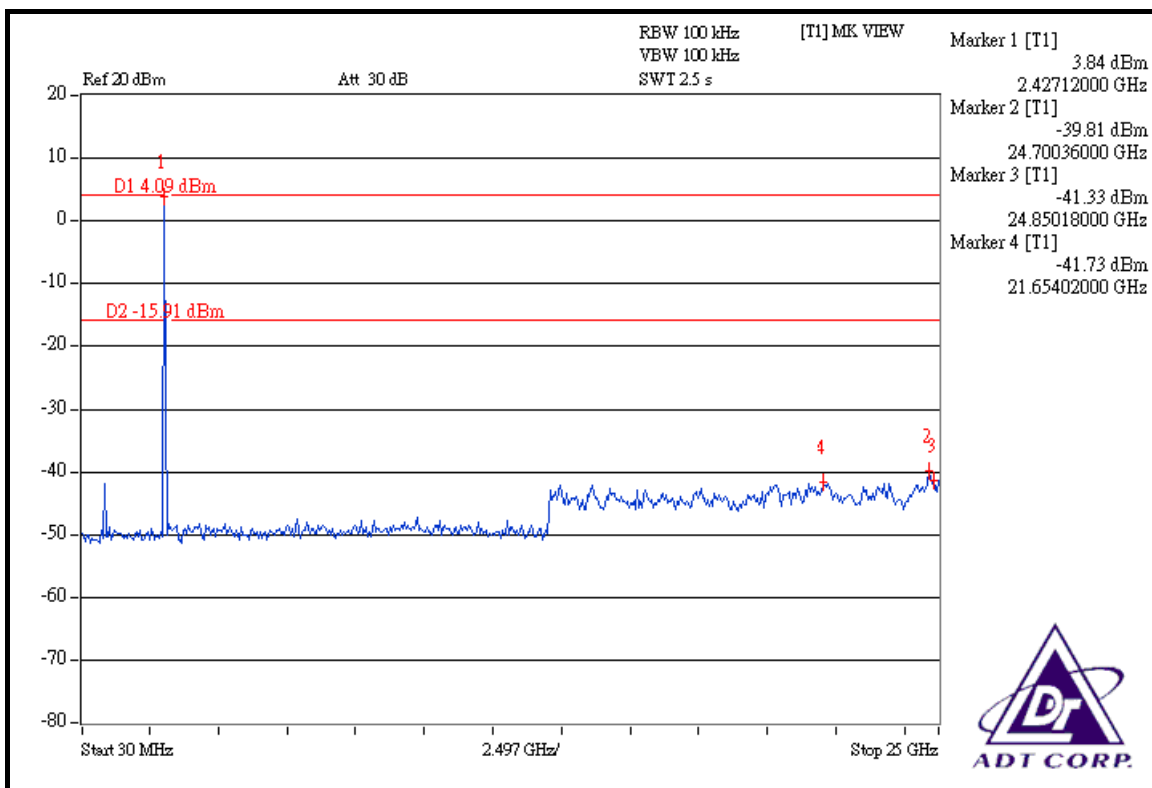
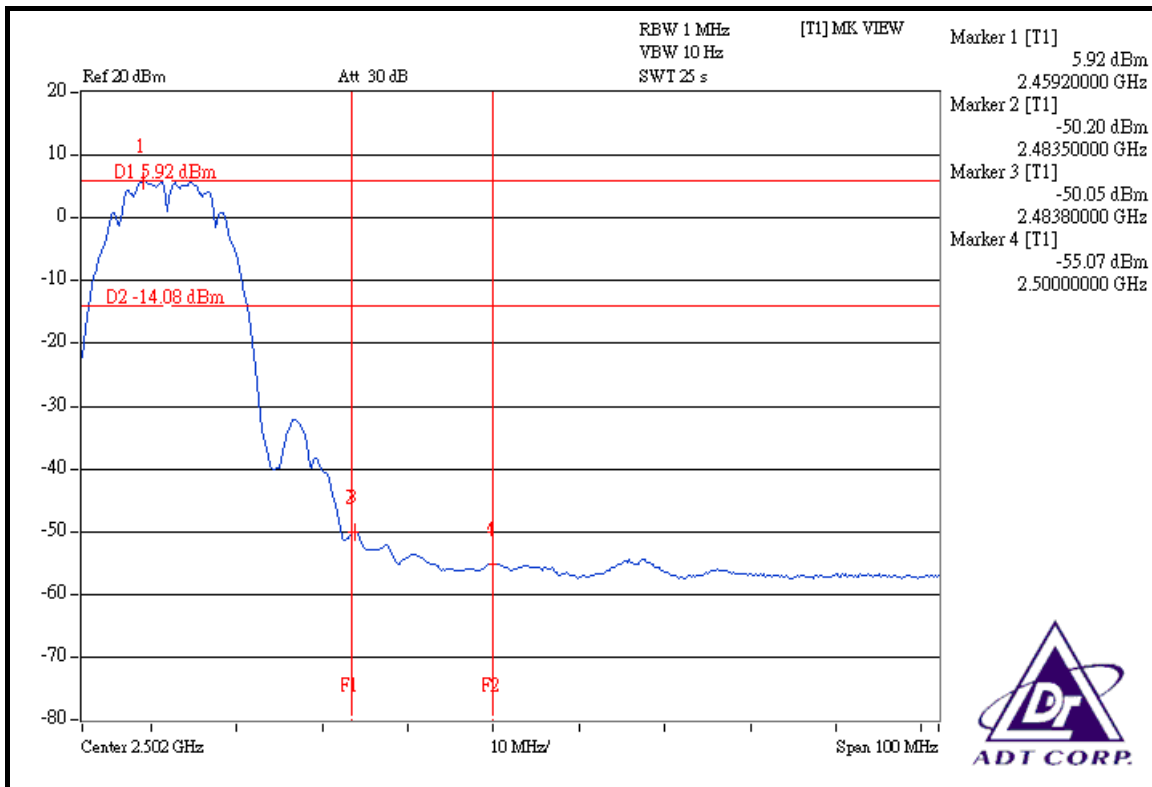
NOTE 2:

The band edge emission plot on the next second page shows 50.21dBc between carrier maximum power and local maximum emission in restrict band (2.48700GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 111.36dBuV/m (Peak), so the maximum field strength in restrict band is $111.36 - 50.21 = 61.15$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next third page shows 55.97dBc between carrier maximum power and local maximum emission in restrict band (2.48380GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 106.95dBuV/m (Average), so the maximum field strength in restrict band is $106.95 - 55.97 = 50.98$ dBuV/m which is under 54dBuV/m limit.







802.11g OFDM MODULATION

NOTE 1:

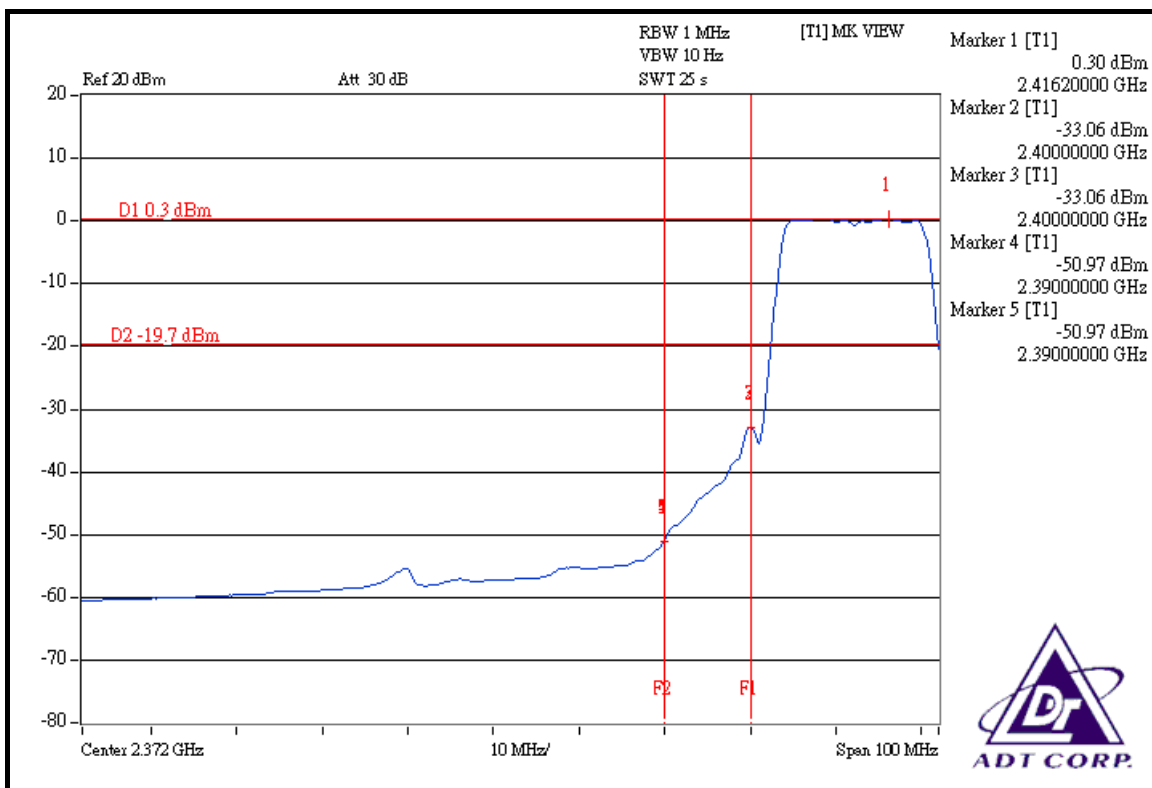
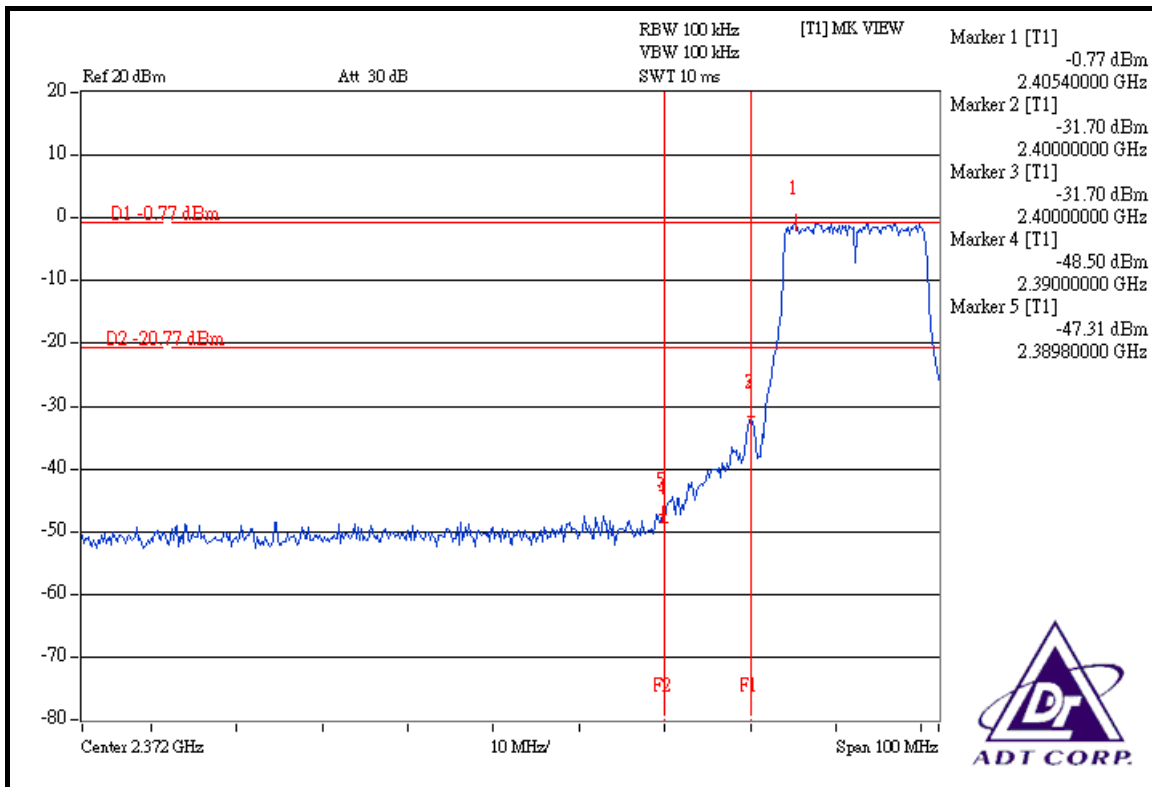
The band edge emission plot on the next page shows 46.54dBc between carrier maximum power and local maximum emission in restrict band (2.38980GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 111.86dBuV/m (Peak), so the maximum field strength in restrict band is $111.86 - 46.54 = 65.32$ dBuV/m which is under 74dBuV/m limit.

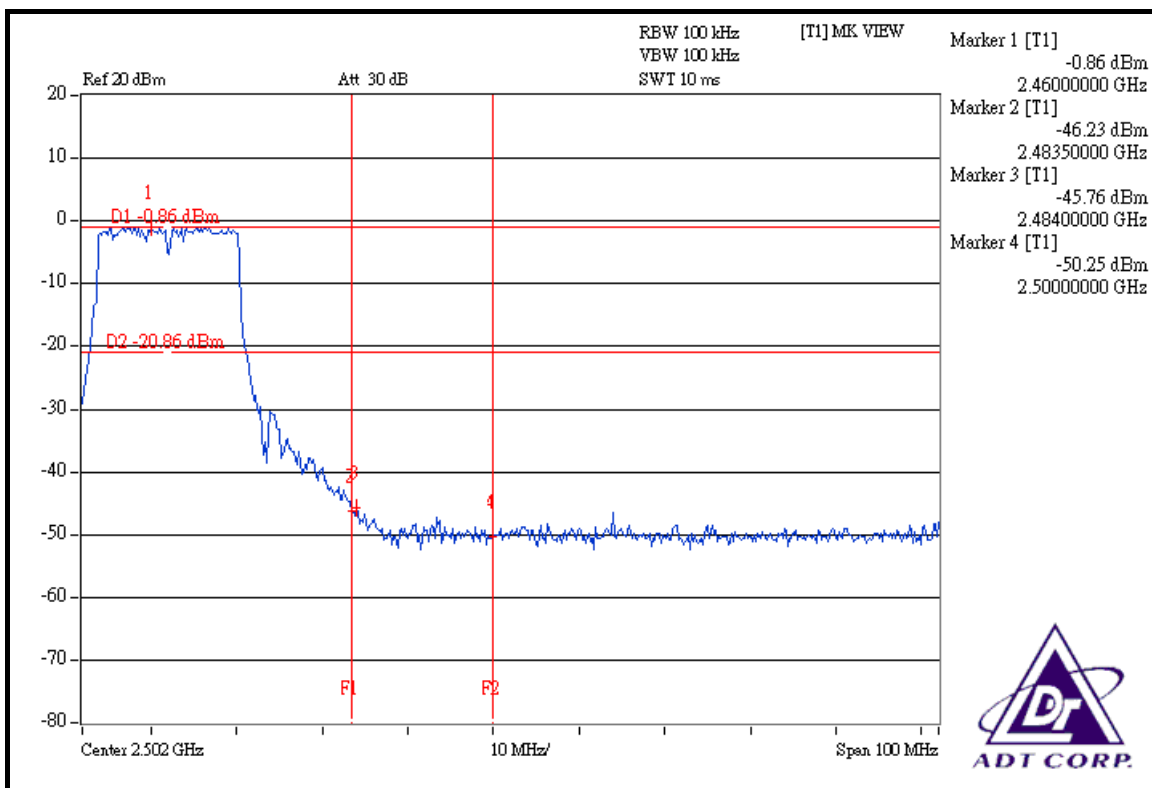
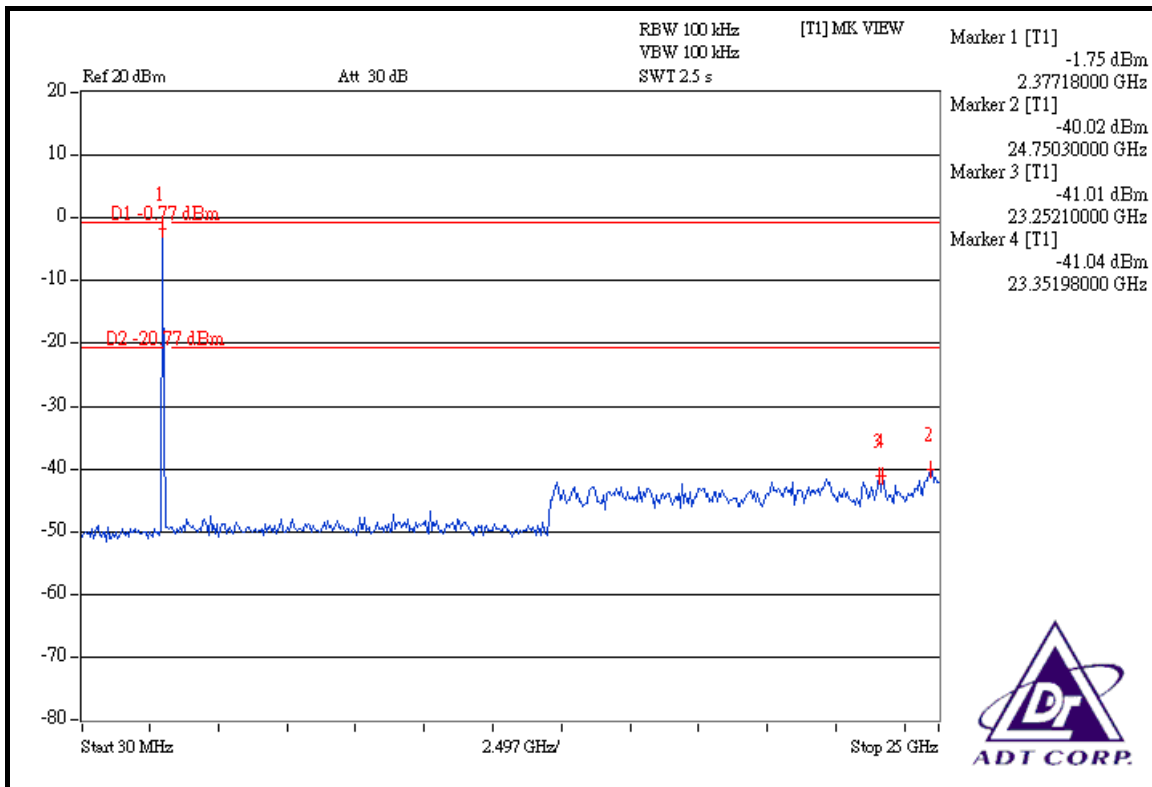
The band edge emission plot on the next page shows 51.27dBc between carrier maximum power and local maximum emission in restrict band (2.39000GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 101.08dBuV/m (Average), so the maximum field strength in restrict band is $101.08 - 51.27 = 49.81$ dBuV/m which is under 54dBuV/m limit.

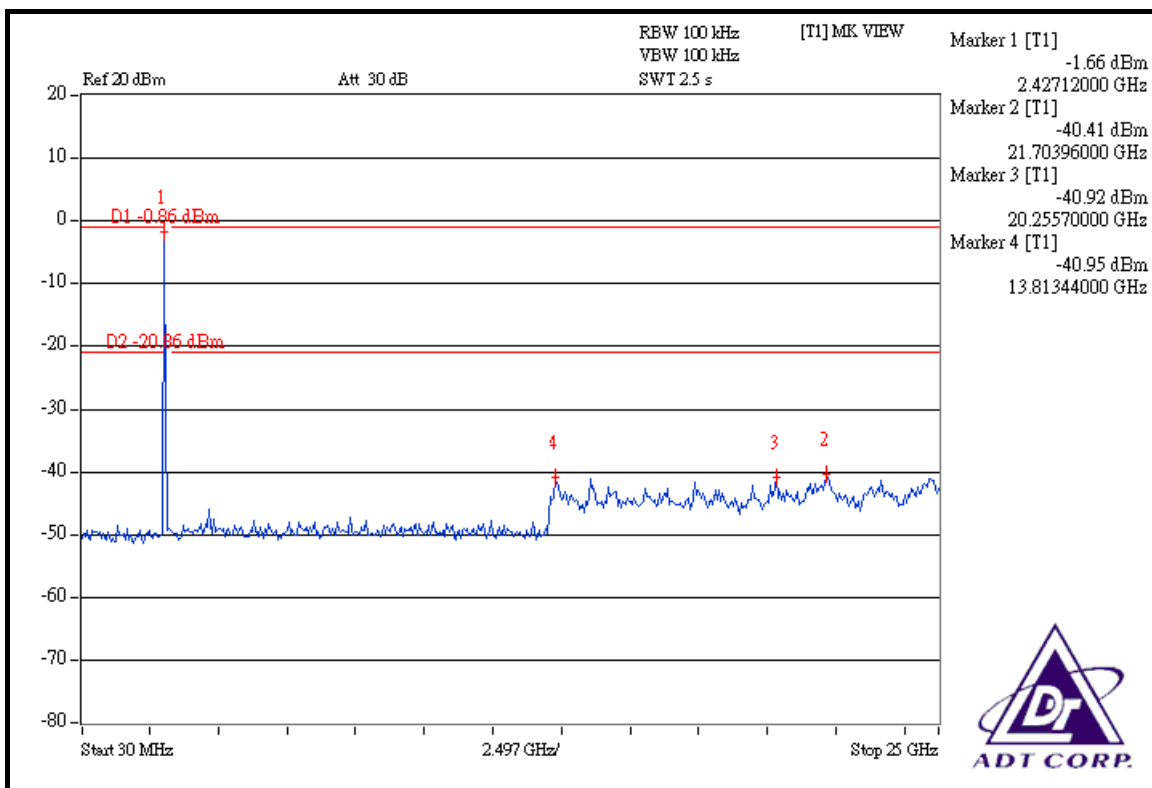
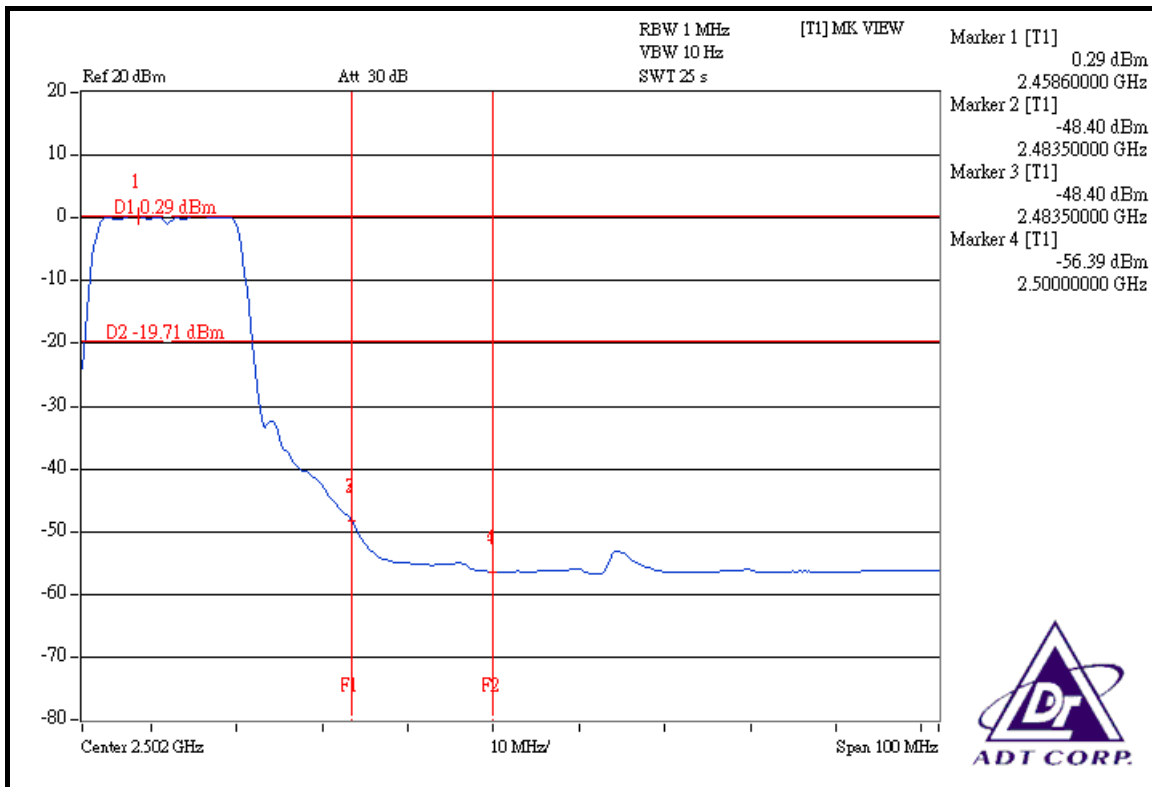
NOTE 2:

The band edge emission plot on the next second page shows 44.90dBc between carrier maximum power and local maximum emission in restrict band (2.48400GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 111.62dBuV/m (Peak), so the maximum field strength in restrict band is $111.62 - 44.90 = 66.72$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next third page shows 48.69dBc between carrier maximum power and local maximum emission in restrict band (2.48350GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 100.95dBuV/m (Average), so the maximum field strength in restrict band is $100.95 - 48.69 = 52.26$ dBuV/m which is under 54dBuV/m limit.







DRAFT 802.11n (20MHz) OFDM MODULATION

NOTE 1:

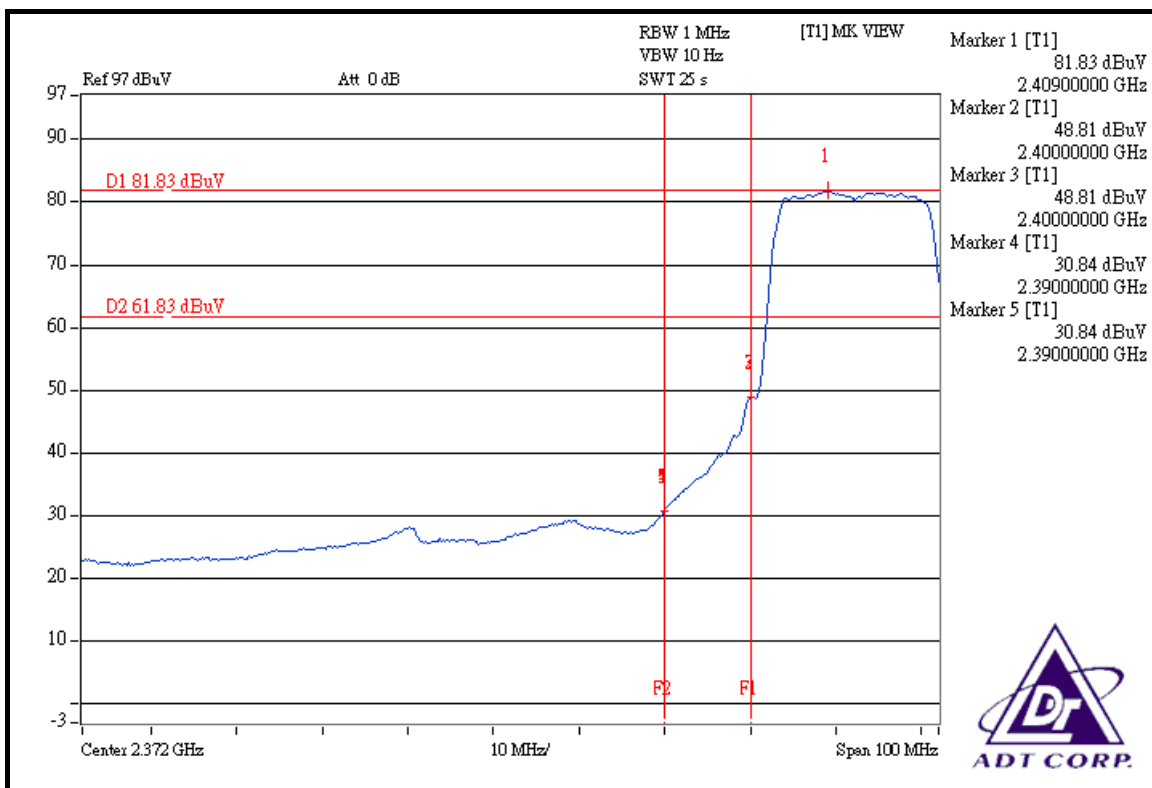
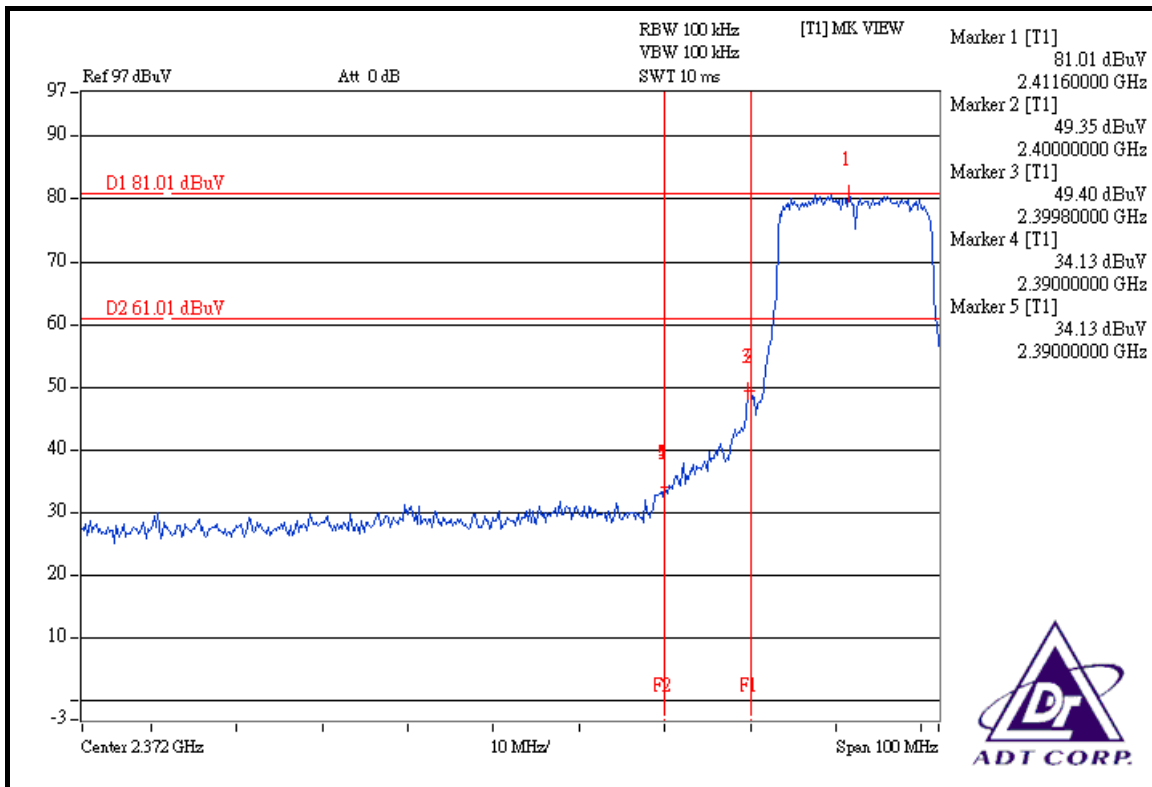
The band edge emission plot on the next page shows 46.88dBc between carrier maximum power and local maximum emission in restrict band (2.39000GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 112.95dBuV/m (Peak), so the maximum field strength in restrict band is $112.95 - 46.88 = 66.07$ dBuV/m which is under 74dBuV/m limit.

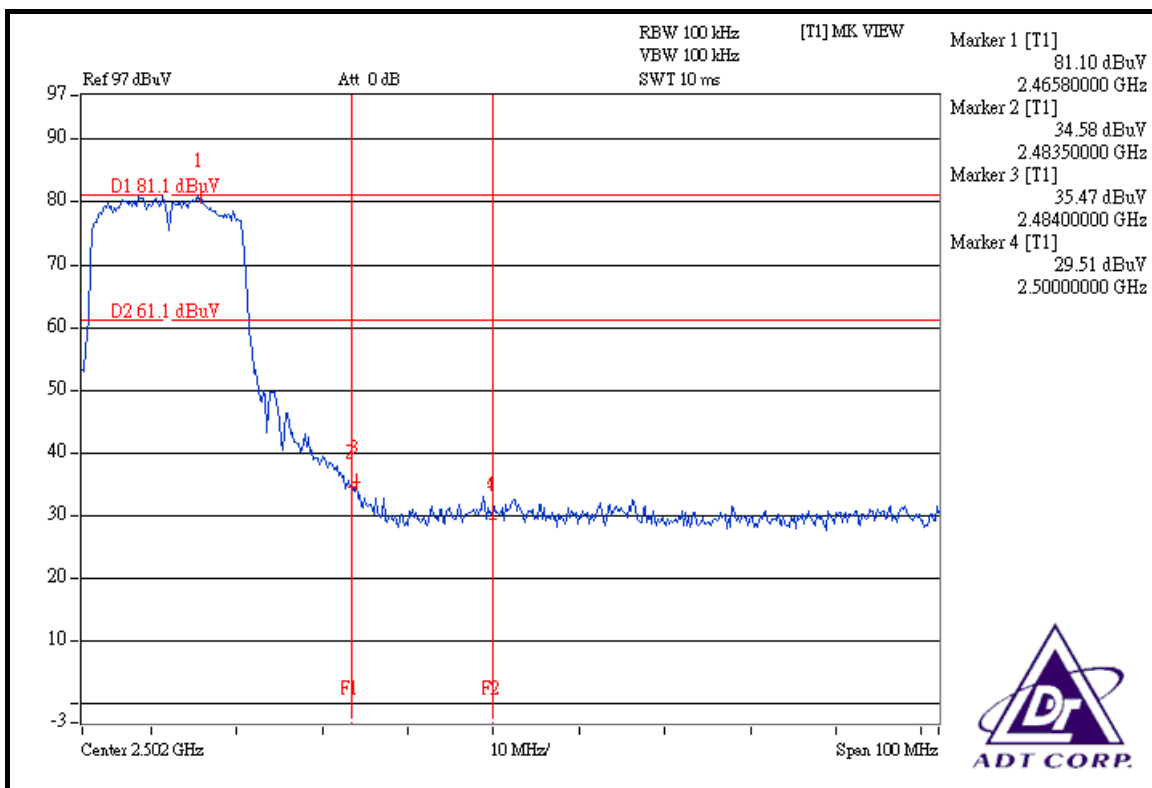
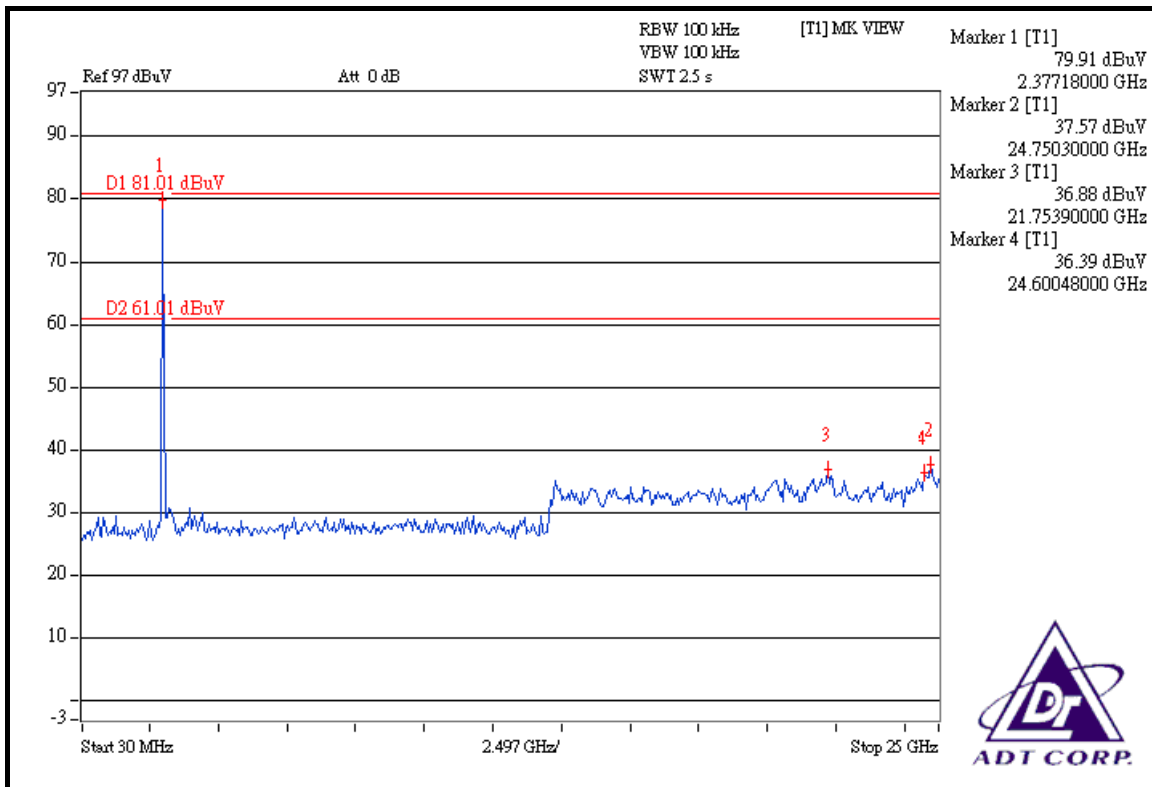
The band edge emission plot on the next page shows 50.99dBc between carrier maximum power and local maximum emission in restrict band (2.39000GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 102.08dBuV/m (Average), so the maximum field strength in restrict band is $102.08 - 50.99 = 51.09$ dBuV/m which is under 54dBuV/m limit.

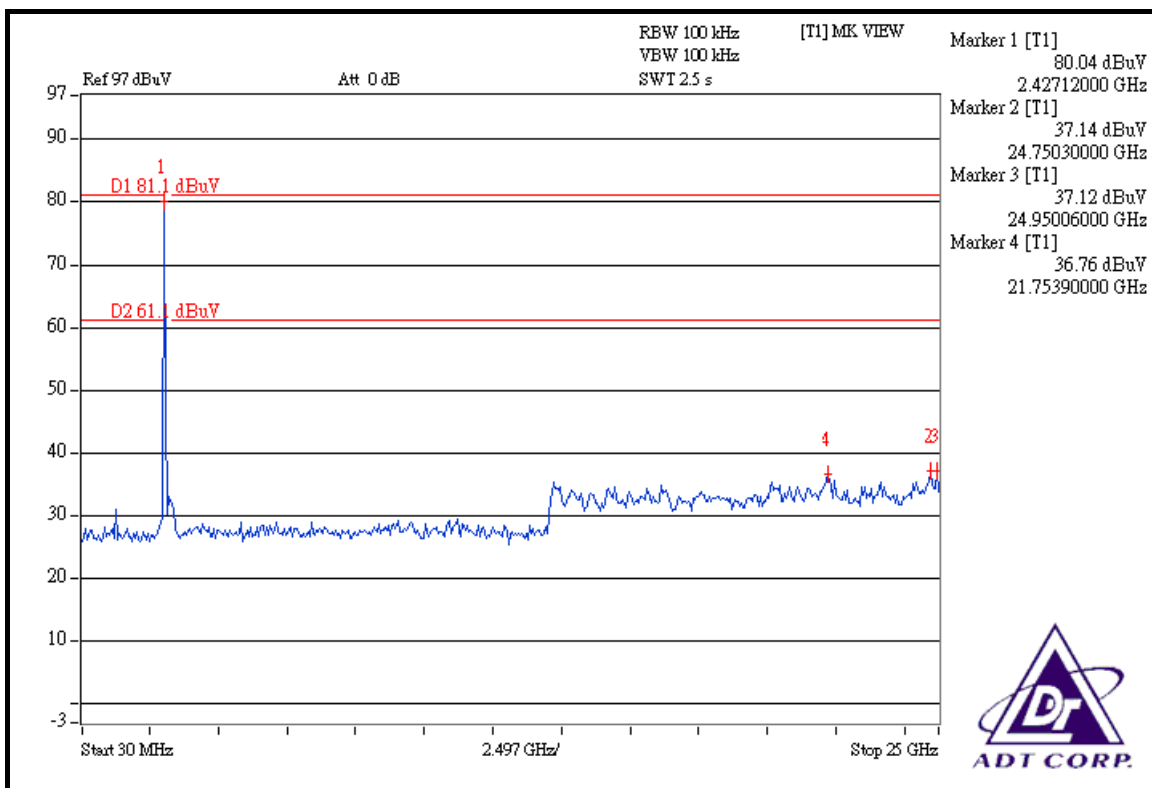
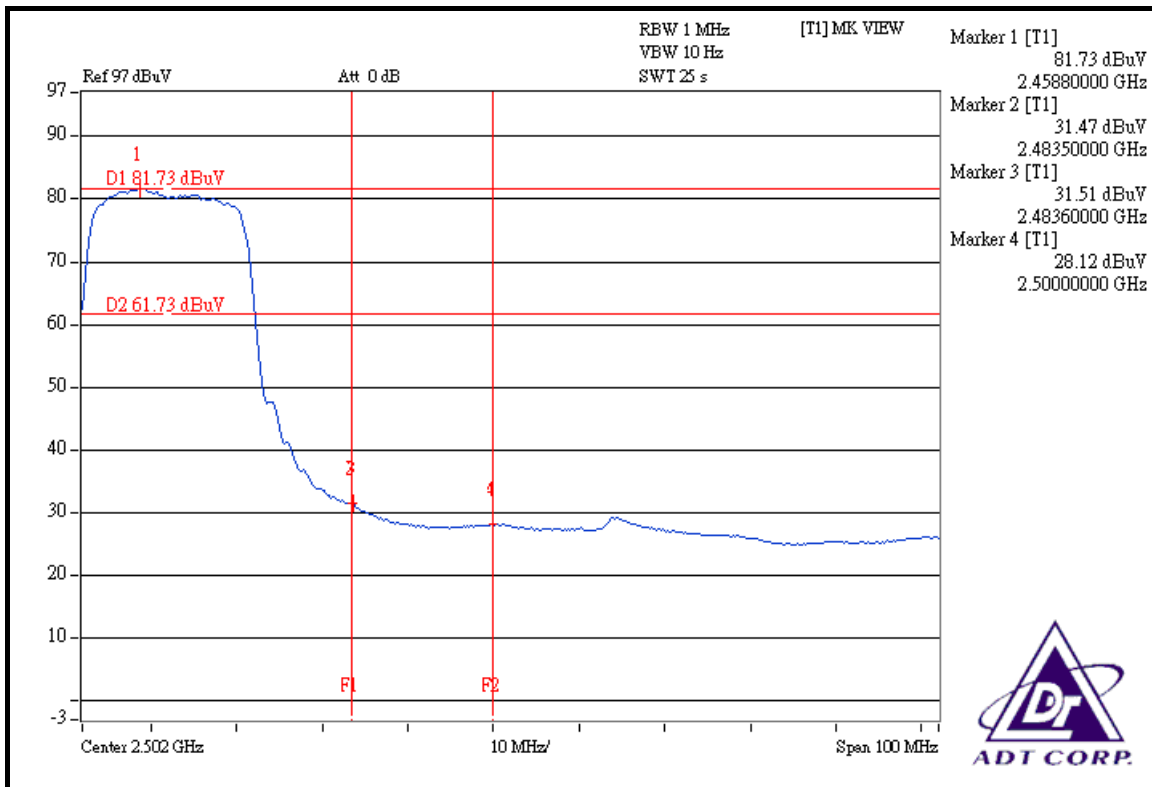
NOTE 2:

The band edge emission plot on the next second page shows 45.63dBc between carrier maximum power and local maximum emission in restrict band (2.48400GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 113.25dBuV/m (Peak), so the maximum field strength in restrict band is $113.25 - 45.63 = 67.62$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next third page shows 50.22dBc 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 11 at the item 4.2.7 is 102.31dBuV/m (Average), so the maximum field strength in restrict band is $102.31 - 50.22 = 52.09$ dBuV/m which is under 54dBuV/m limit.







DRAFT 802.11n (40MHz) OFDM MODULATION

NOTE 1:

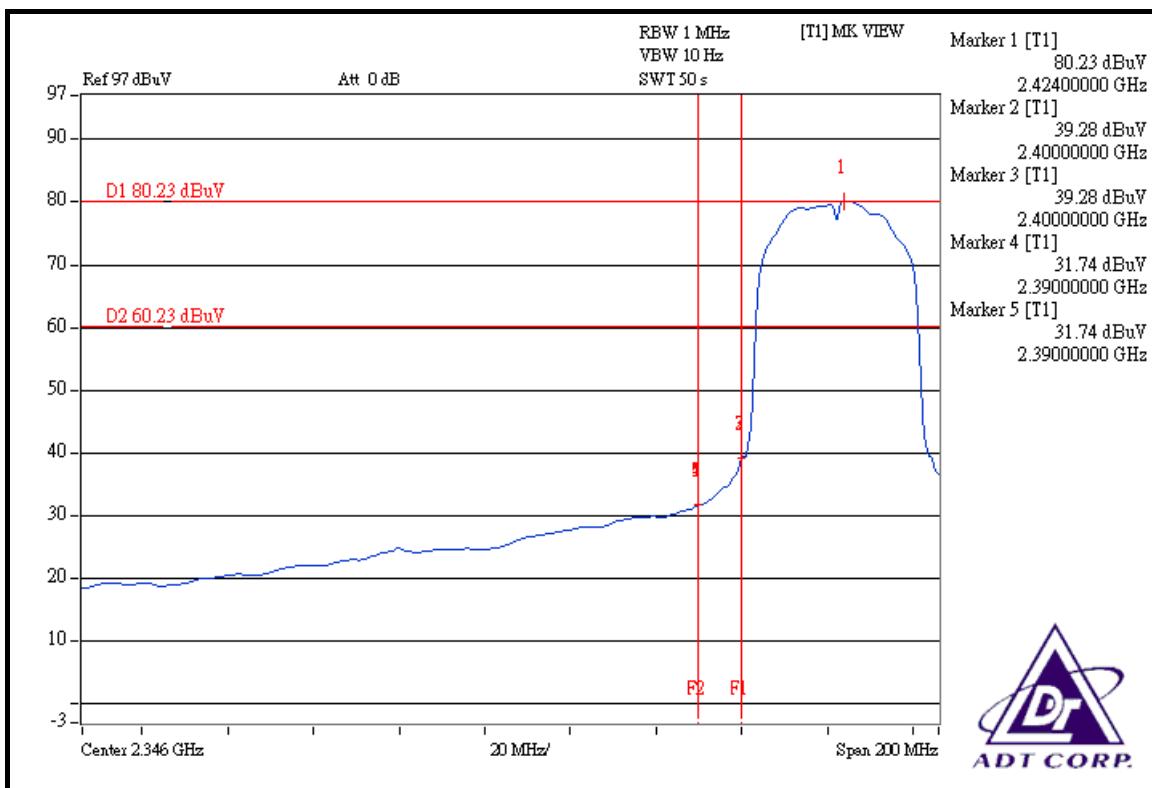
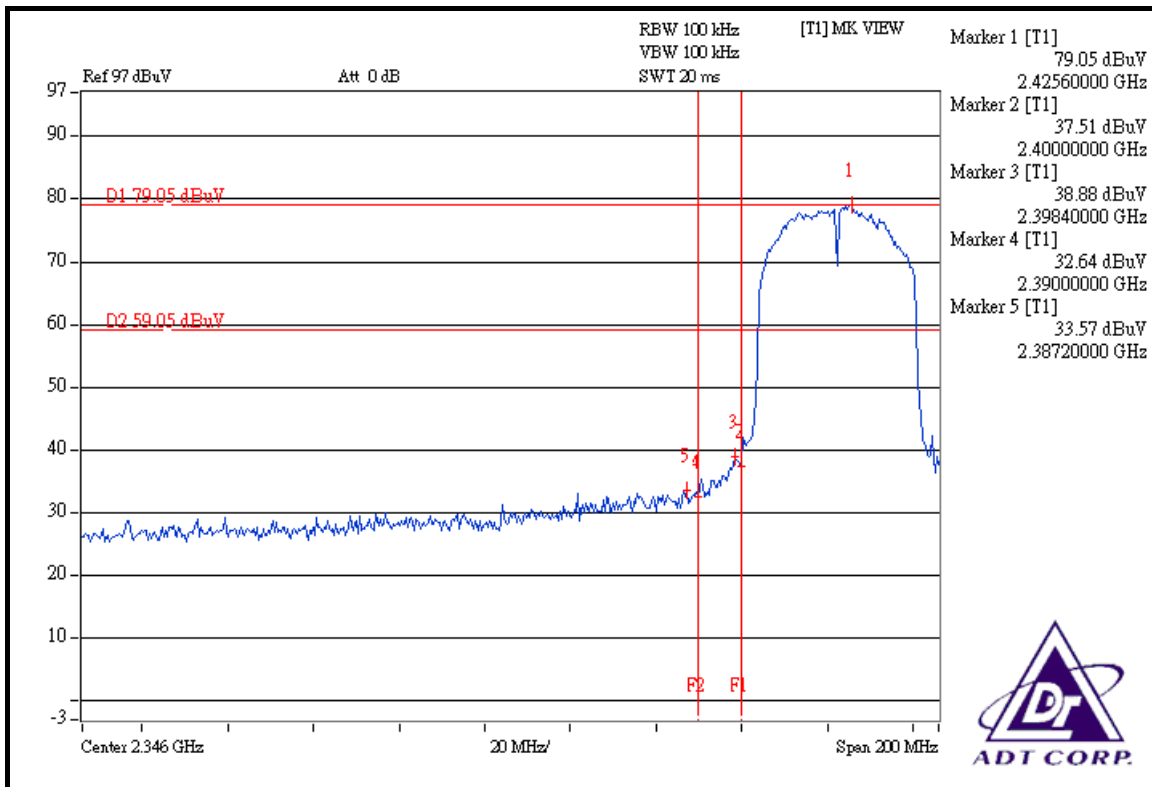
The band edge emission plot on the next page shows 45.48dBc between carrier maximum power and local maximum emission in restrict band (2.38720GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 111.16dBuV/m (Peak), so the maximum field strength in restrict band is $111.16 - 45.48 = 65.68$ dBuV/m which is under 74dBuV/m limit.

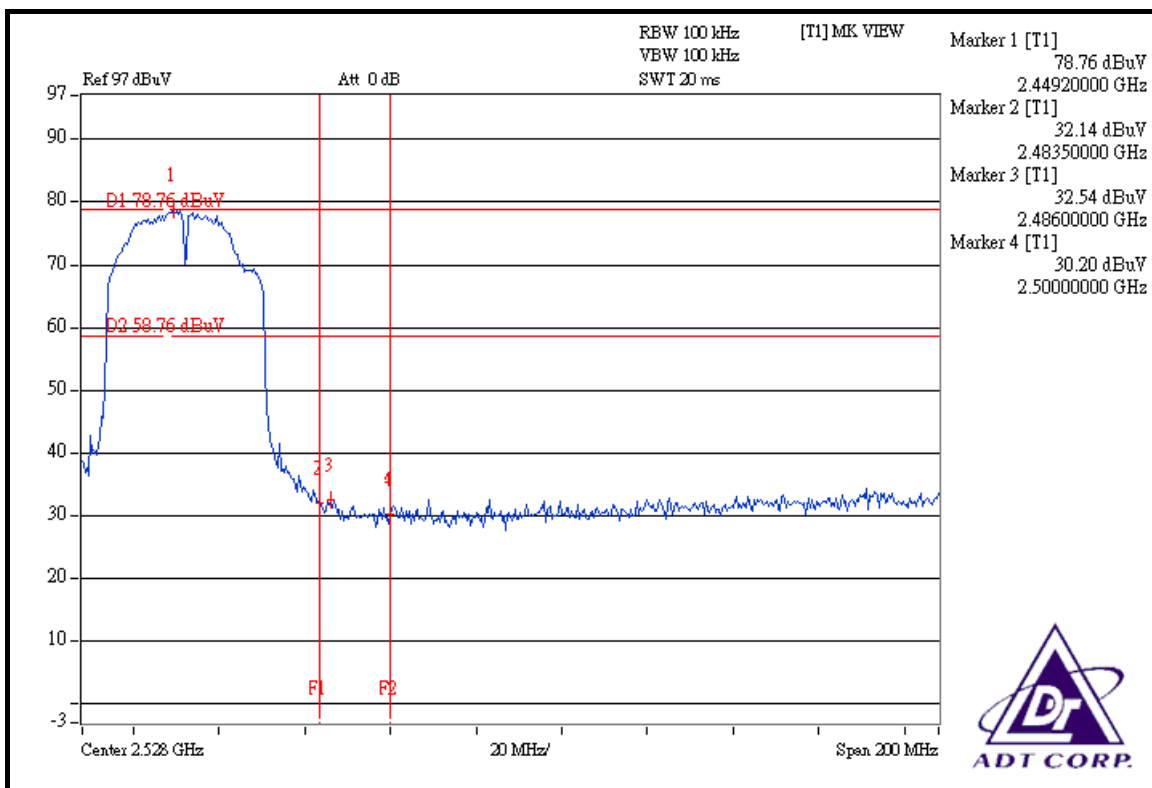
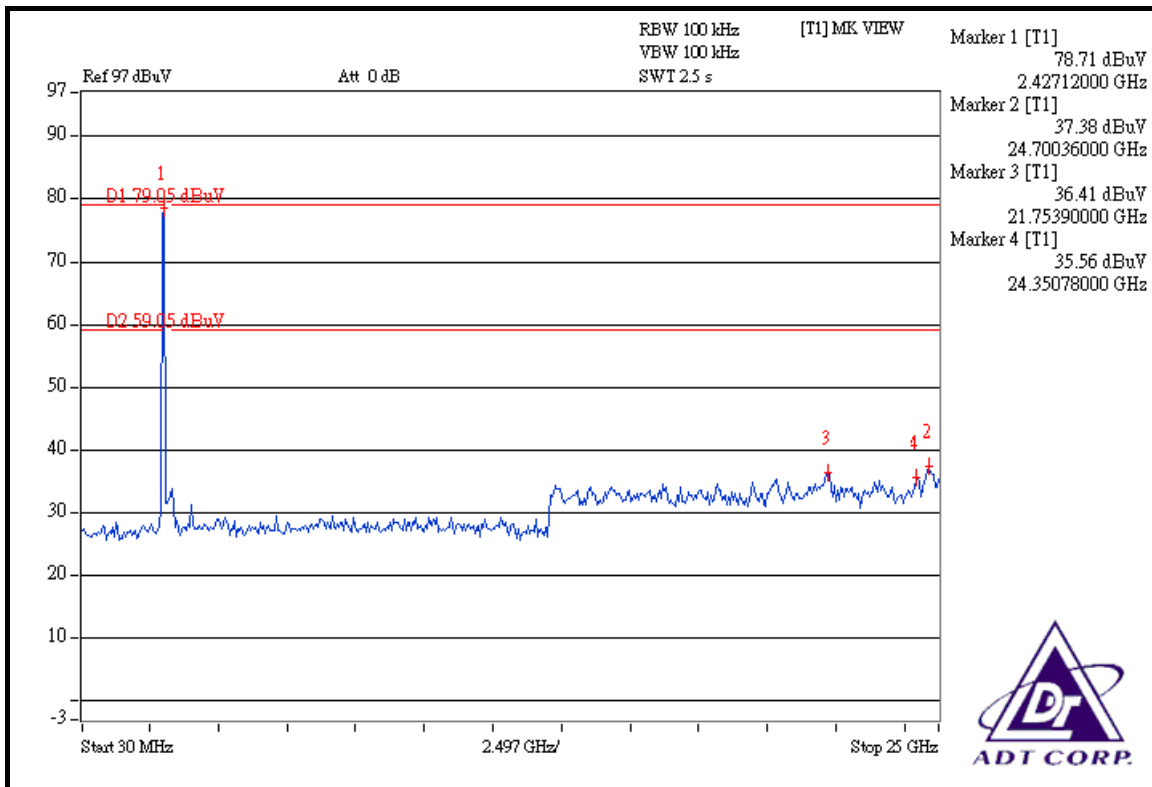
The band edge emission plot on the next page shows 48.49dBc between carrier maximum power and local maximum emission in restrict band (2.39000GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 100.75dBuV/m (Average), so the maximum field strength in restrict band is $100.75 - 48.49 = 52.26$ dBuV/m which is under 54dBuV/m limit.

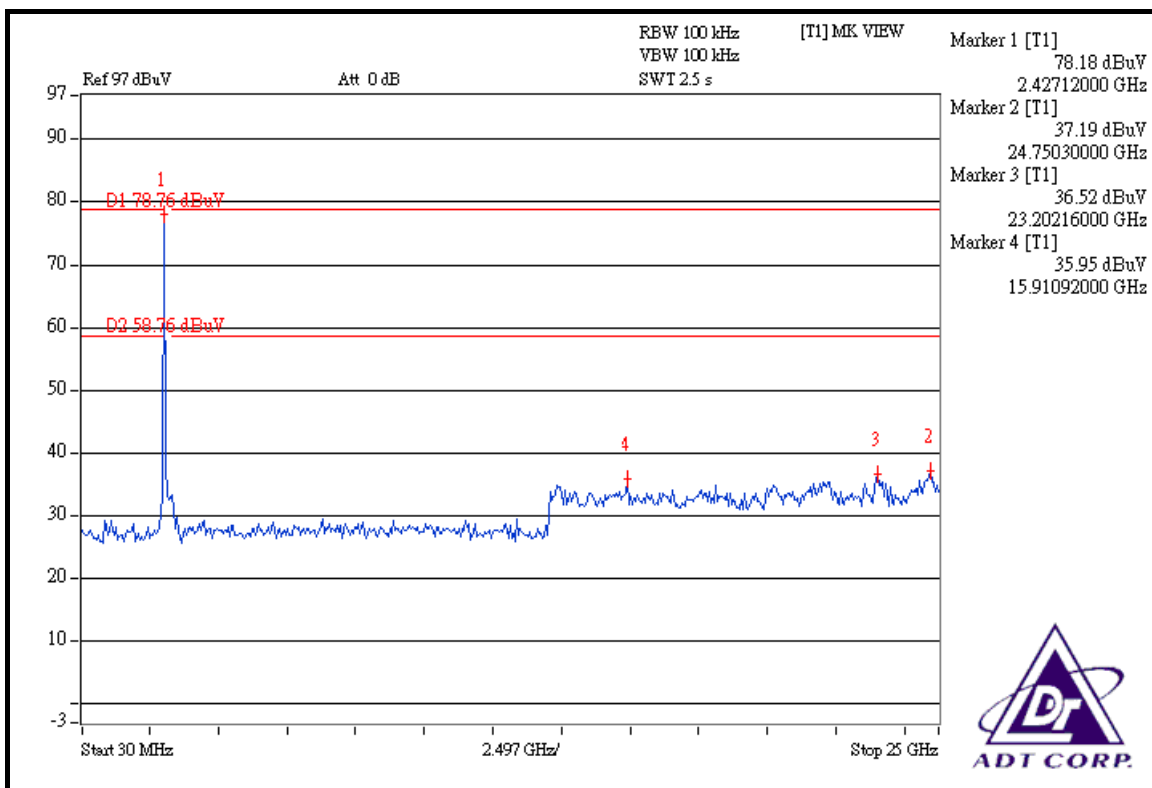
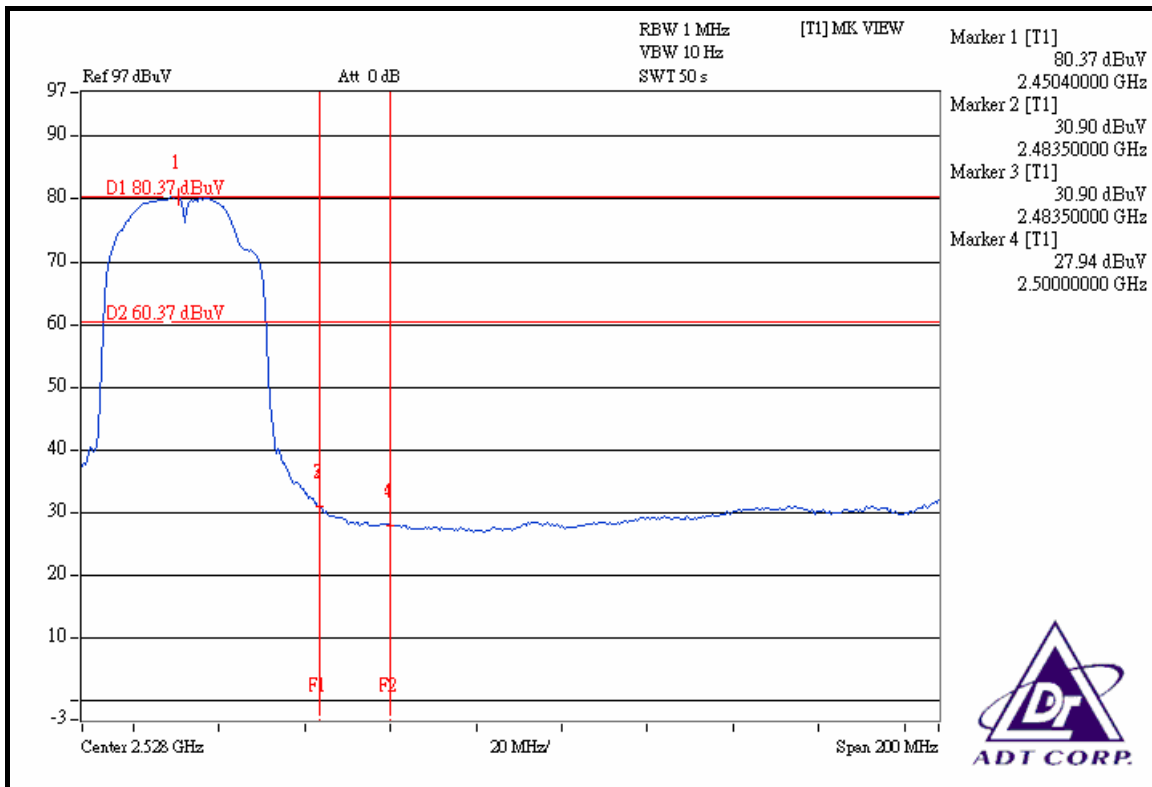
NOTE 2:

The band edge emission plot on the next second page shows 46.22dBc between carrier maximum power and local maximum emission in restrict band (2.48600GHz). The emission of carrier strength list in the test result of channel 7 at the item 4.2.7 is 111.25dBuV/m (Peak), so the maximum field strength in restrict band is $111.25 - 46.22 = 65.03$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next third page shows 49.47dBc between carrier maximum power and local maximum emission in restrict band (2.48350GHz). The emission of carrier strength list in the test result of channel 7 at the item 4.2.7 is 100.70dBuV/m (Average), so the maximum field strength in restrict band is $100.70 - 49.47 = 51.23$ dBuV/m which is under 54dBuV/m limit.









4.7 ANTENNA REQUIREMENT

4.7.1 STANDARD APPLICABLE

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

4.7.2 ANTENNA CONNECTED CONSTRUCTION

The antenna used in this product is Dipole antenna with Reverse SMA connector. The maximum Gain of the antenna is 1.75dBi.



5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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



6. INFORMATION ON THE TESTING LABORATORIES

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

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

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

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

Linko EMC/RF Lab:

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF Lab:

Tel: 886-3-5935343

Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Telecom Lab:

Tel: 886-3-3183232

Fax: 886-3-3185050

Web Site: www.adt.com.tw

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



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

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