FCC TEST REPORT

REPORT NO.: RF960112L07

MODEL NO.: BW1231 (refer to item 3.1 for more details)

RECEIVED: Jan. 17, 2007

TESTED: Jun. 01 ~ Sep. 06, 2007

ISSUED: Sep. 14, 2007

APPLICANT: Gemtek Technology Co., Ltd.

ADDRESS: No.15-1, Zhonghua Rd, Hsinchu Industrial Park , Hsinchu County, Taiwan,R.O.C.303

ISSUED BY: Advance Data Technology Corporation

LAB ADDRESS: No. 47, 14th Ling, Chia Pau Tsuen, Lin Kou Hsiang 244, Taipei Hsien, Taiwan, R.O.C.

TEST LOCATION: No. 19, Hwa Ya 2nd Rd., Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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Testing Laboratory 0528

ACCREDITED No.: 2177-01

TABLE OF CONTENTS

1. CERTIFICATION

PRODUCT:	SMB Wireless Router
MODEL:	BW1231 (refer to item 3.1 for more details)
BRAND:	BROWAN
APPLICANT:	Gemtek Technology Co., Ltd.
TESTED:	Jun. 01 ~ Sep. 06, 2007
TEST SAMPLE:	ENGINEERING SAMPLE
STANDARDS:	**FCC Part 15, Subpart C (Section 15.247)**
	ANSI C63.4-2003

The above equipment (model: BW1231) have 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 : Rennie Wang / Senior Specialist , **DATE:** Sep. 14, 2007

TECHNICAL ACCEPTANCE : Long Chen , **DATE:** Sep. 14, 2007
Responsible for RF — Long Chen / Senior Engineer

APPROVED BY : Gary Chang , **DATE:** Sep. 14, 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 –2.09dB at 10.690MHz
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)	Radiated Emissions Limit: Table 15.209	PASS	Meet the requirement of limit. Minimum passing margin is –1.28dB at 2390.00MHz
15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Meet the requirement of limit.
15.247(d)	Band Edge Measurement Limit: 20dB less than the peak value of fundamental frequency	PASS	Meet the requirement of limit.

2.1 MEASUREMENT UNCERTAINTY

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

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	3.19 dB
	200MHz ~1000MHz	3.21 dB
	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	SMB Wireless Router
MODEL NO.	BW1231 (refer to NOTE below for more details)
FCC ID	MXF-R960306G
POWER SUPPLY	48Vdc from PoE 12Vdc from AC adapter
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
RADIO TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b: 11/5.5/2/1Mbps 802.11g: 54/48/36/24/18/12/9/6Mbps (Up to 108Mbps for turbo mode)
FREQUENCY RANGE	2412MHz ~ 2462MHz
NUMBER OF CHANNEL	11
OUTPUT POWER	114.288mW
ANTENNA TYPE	Dipole antenna with 2.1dBi gain Printed antenna (RX only)
DATA CABLE	NA
I/O PORTS	RJ45
ASSOCIATED DEVICES	Adapter x2, PoE x2

NOTE:

1. The only difference between two models is listed as follows:

Model	Description
BW1230	Without PoE module
BW1231	With PoE module

**Model BW1231 was the worst case and chosen for final test.

2. The EUT was powered with following adapters & PoEs:

Adapter 1	
Brand	DVE
Model	DSA-9W-15 FUS 120050
Input Power	100-240Vac, 50-60Hz, 0.3A
Output Power	12Vdc, 0.5A
Power Line	1.8m non-shielded cable without core

Adapter 2	
Brand	RONG-HORNG
Model	RHM-1200500-1-3
Input Power	100-240Vac, 50-60Hz, 0.2A
Output Power	12Vdc, 0.5A
Power Line	1.8m non-shielded cable without core

PoE 1	
Brand	PowerDsine^{TM} 3001
Model	PD-3001/AC
Input Power	100-250Vac, 50-60Hz, 0.5A
Output Power	48Vdc, 0.35A

PoE 2	
Brand	BROWAN
Model	BE3011
Input Power	100-250Vac, 50-60Hz, 0.5A
Output Power	48Vdc, 0.35A

**Two PoEs are totally same except for their brand and model. Therefore, PoE 1 was chosen for final test.

3. The EUT, operates in the 2.4GHz frequency range, lets you connect IEEE 802.11g or IEEE 802.11b devices to the network. With its high-speed data transmissions of up to 54Mbps.
4. This EUT is capable of providing data rates of up to 108Mbps in Turbo Mode depending upon reception quality.
5. 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.

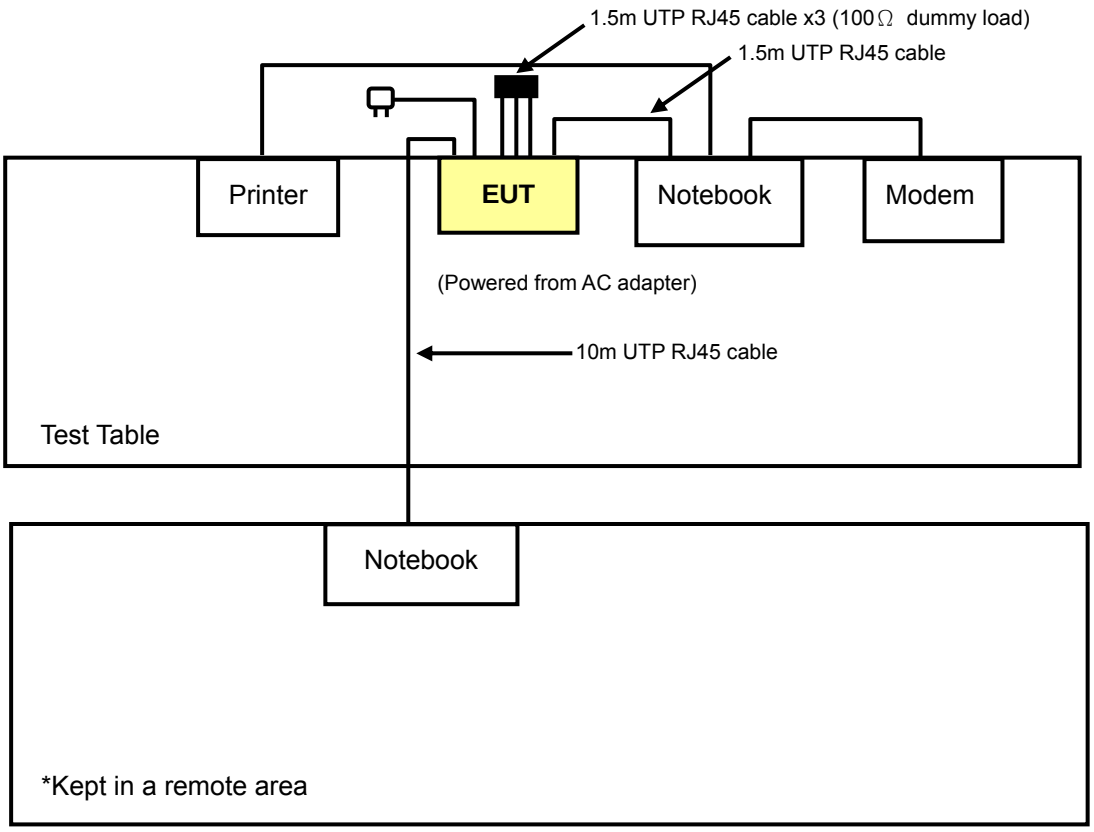
3.2 DESCRIPTION OF TEST MODES

Eleven channels are provided to this EUT.

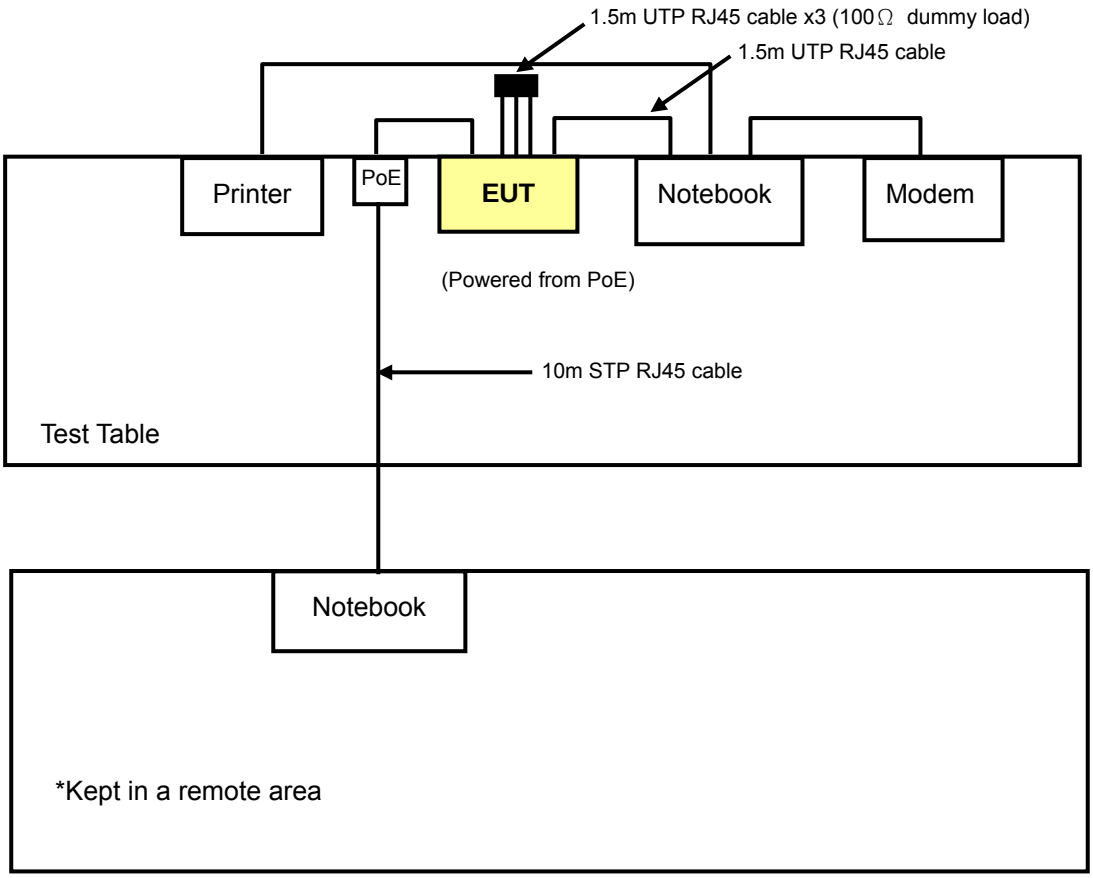
CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST

Test mode A, B (adapter mode):



Test mode C (PoE mode):



3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	PLC	RE<1G	RE≥1G	APCM	
A	√	√	-	-	Powered from Adapter 1
B	√	√	-	-	Powered from Adapter 2
C	√	√	√	√	Powered from PoE

Where **PLC:** Power Line Conducted Emission **RE<1G:** Radiated Emission below 1GHz

RE≥1G: Radiated Emission above 1GHz **APCM:** Antenna Port Conducted Measurement

NOTE: "-" means no effect.

POWER LINE CONDUCTED EMISSION TEST:

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

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

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
A	802.11g Turbo	6	6	OFDM	QPSK	12
B	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
B	802.11g Turbo	6	6	OFDM	QPSK	12
C	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
C	802.11g Turbo	6	6	OFDM	QPSK	12

RADIATED EMISSION TEST (BELOW 1 GHz):

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

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

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11g	1 to 11	11	OFDM	BPSK	6
B	802.11g	1 to 11	11	OFDM	BPSK	6
C	802.11g	1 to 11	11	OFDM	BPSK	6

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.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
C	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1
C	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
C	802.11g Turbo	6	6	OFDM	QPSK	12

BANDEDGE MEASUREMENT:

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

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

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
C	802.11b	1 to 11	1, 11	DSSS	DBPSK	1
C	802.11g	1 to 11	1, 11	OFDM	BPSK	6
C	802.11g Turbo	6	6	OFDM	QPSK	12

ANTENNA PORT CONDUCTED MEASUREMENT:

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

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

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
C	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1
C	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6
C	802.11g Turbo	6	6	OFDM	QPSK	12

3.2.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is an 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.

3.2.4 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	9954115984	E2K24CLNS
2	PRINTER	EPSON	LQ-300+	DCGY054146	FCC DoC Approved
3	MODEM	ACEEX	1414V/3	0401008260	IFAXDM1414
4	NOTEBOOK COMPUTER	DELL	PP05L	12130898320	E2K24CLNS

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	1.5m UTP RJ45 cable
2	1.6m shielded cable
3	1.6m shielded cable
4	10m UTP RJ45 cable (w/o PoE), 10m STP RJ45 cable (with PoE)

NOTE:

1. All power cords of the above support units are non shielded (1.8m).
2. Item 4 is acted as a communication partner 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 (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

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

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	100288	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.

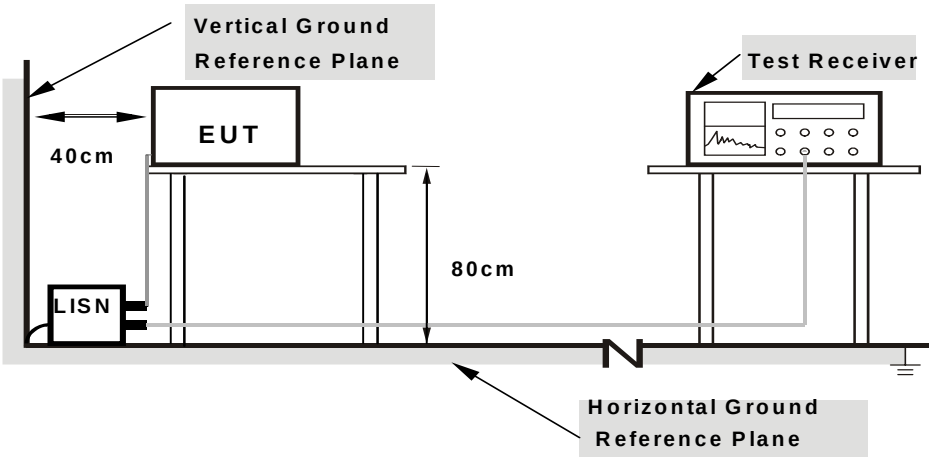
b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

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. Connected the EUT to a notebook placed on a testing table.
b. The notebook 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.
d. Prepared another notebook system to act as a communication partner and placed it outside of testing area.
e. The communication partner connected with EUT via a RJ45 cable and run a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
f. The communication partner sent data to EUT by command "PING".

4.1.7 TEST RESULTS

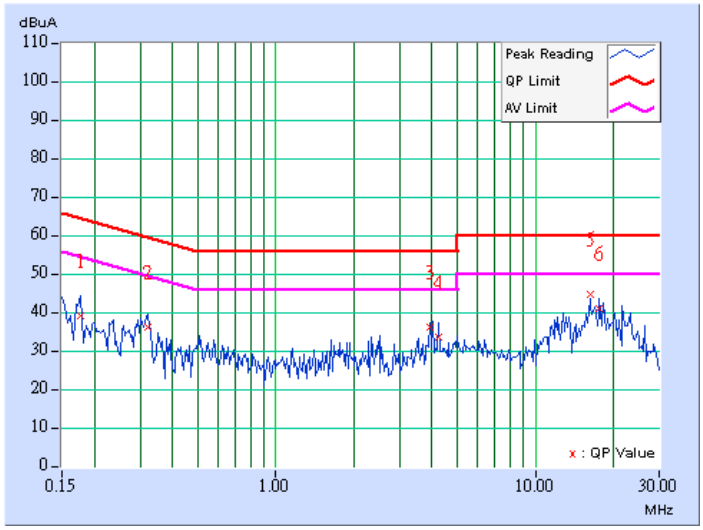
CONDUCTED WORST-CASE DATA_ FOR TEST MODE A: ADAPTER 1

NORMAL MODE:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	**PHASE**	Line 1
MODULATION TYPE	BPSK	**6dB BANDWIDTH**	9 kHz
TRANSFER RATE	6Mbps	**ENVIRONMENTAL CONDITIONS**	27deg. C, 68%RH, 991hPa
TESTED BY	Dean Wang	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.177	0.10	38.89	-	38.99	-	64.61	54.61	-25.62	-
2	0.322	0.10	35.73	-	35.83	-	59.66	49.66	-23.83	-
3	3.909	0.28	35.75	-	36.03	-	56.00	46.00	-19.97	-
4	4.262	0.28	33.06	-	33.34	-	56.00	46.00	-22.66	-
5	16.228	0.50	44.15	-	44.65	-	60.00	50.00	-15.35	-
6	17.695	0.53	40.70	-	41.23	-	60.00	50.00	-18.77	-

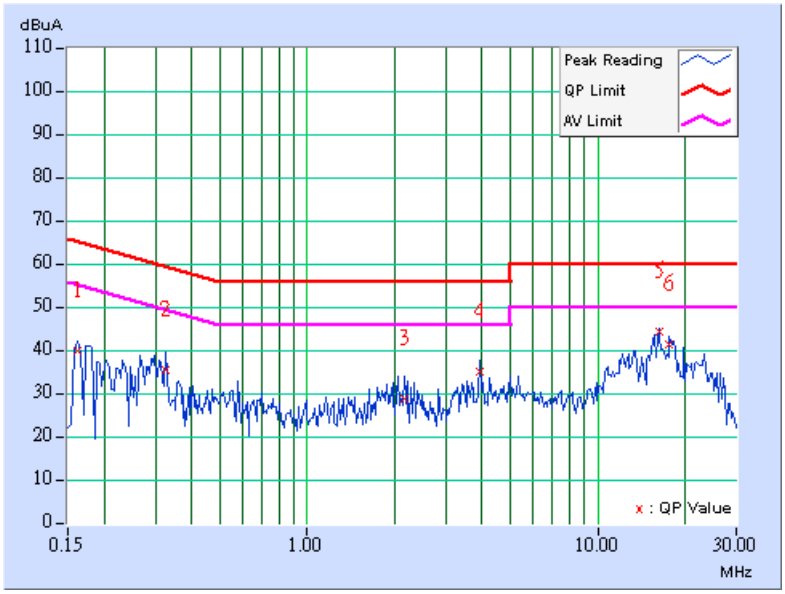
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	27deg. C, 68%RH, 991hPa
TESTED BY	Dean Wang	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.162	0.10	39.43	-	39.53	-	65.38	55.38	-25.85	-
2	0.326	0.10	35.16	-	35.26	-	59.56	49.56	-24.30	-
3	2.160	0.22	28.47	-	28.69	-	56.00	46.00	-27.31	-
4	3.910	0.28	34.68	-	34.96	-	56.00	46.00	-21.04	-
5	16.229	0.50	43.80	-	44.30	-	60.00	50.00	-15.70	-
6	17.695	0.53	40.93	-	41.46	-	60.00	50.00	-18.54	-

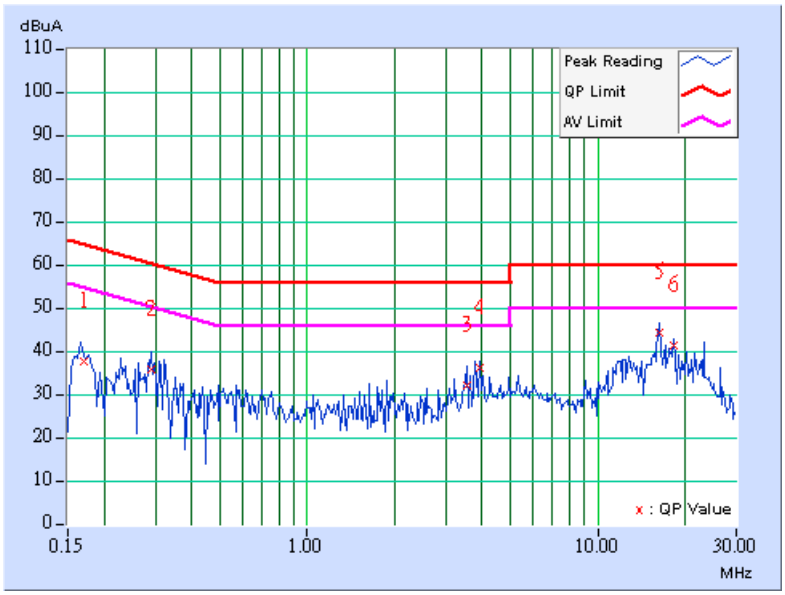
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	27deg. C, 68%RH, 991hPa
TESTED BY	Dean Wang	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.171	0.10	37.25	-	37.35	-	64.93	54.93	-27.58	-
2	0.291	0.10	35.49	-	35.59	-	60.51	50.51	-24.92	-
3	3.551	0.27	31.51	-	31.78	-	56.00	46.00	-24.22	-
4	3.906	0.28	35.61	-	35.89	-	56.00	46.00	-20.11	-
5	16.229	0.50	43.80	-	44.30	-	60.00	50.00	-15.70	-
6	18.243	0.54	41.08	-	41.62	-	60.00	50.00	-18.38	-

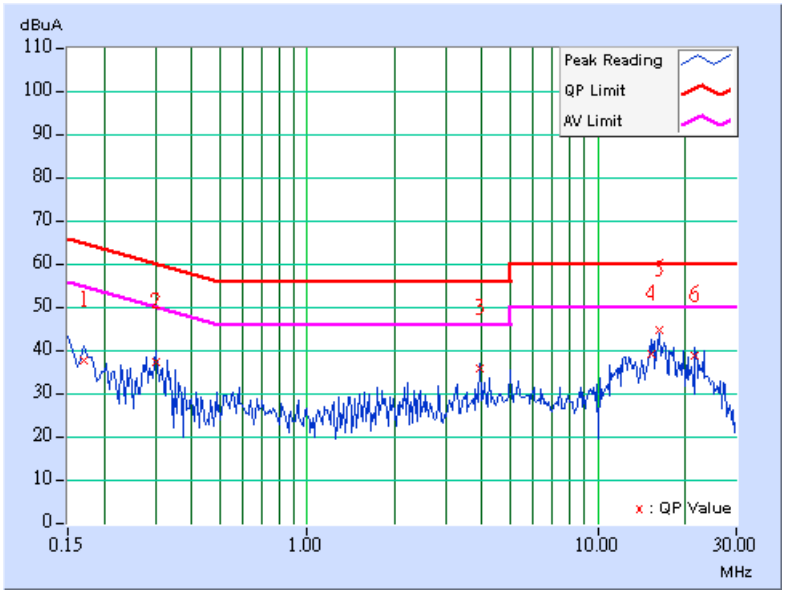
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	27deg. C, 68%RH, 991hPa
TESTED BY	Dean Wang	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.170	0.10	37.05	-	37.15	-	64.98	54.98	-27.83	-
2	0.302	0.10	36.62	-	36.72	-	60.18	50.18	-23.46	-
3	3.906	0.28	35.26	-	35.54	-	56.00	46.00	-20.46	-
4	15.250	0.48	38.74	-	39.22	-	60.00	50.00	-20.78	-
5	16.228	0.50	44.37	-	44.87	-	60.00	50.00	-15.13	-
6	21.663	0.62	38.34	-	38.96	-	60.00	50.00	-21.04	-

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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	27deg. C, 68%RH, 991hPa
TESTED BY	Dean Wang	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.162	0.10	38.77	-	38.87	-	65.38	55.38	-26.51	-
2	0.232	0.10	36.10	-	36.20	-	62.38	52.38	-26.18	-
3	0.529	0.10	27.63	-	27.73	-	56.00	46.00	-28.27	-
4	3.904	0.28	35.87	-	36.15	-	56.00	46.00	-19.85	-
5	16.168	0.50	42.53	-	43.03	-	60.00	50.00	-16.97	-
6	17.695	0.53	40.87	-	41.40	-	60.00	50.00	-18.60	-

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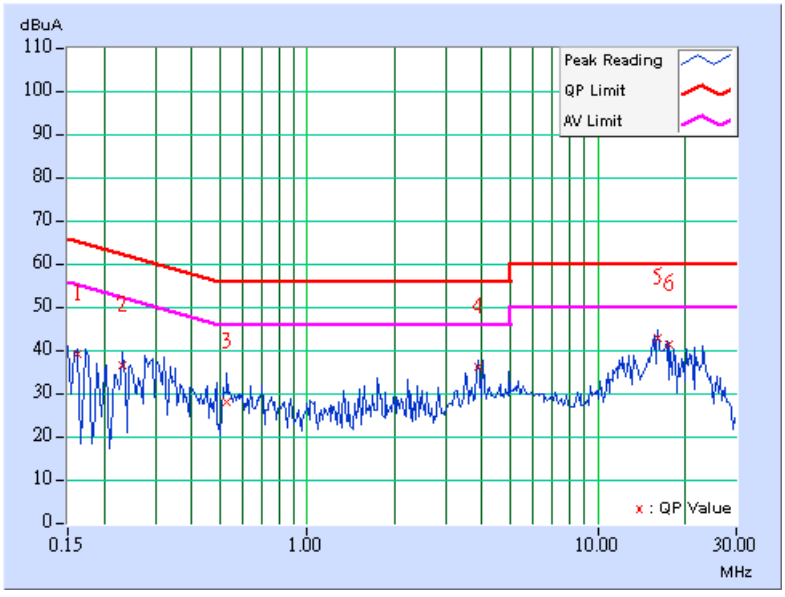
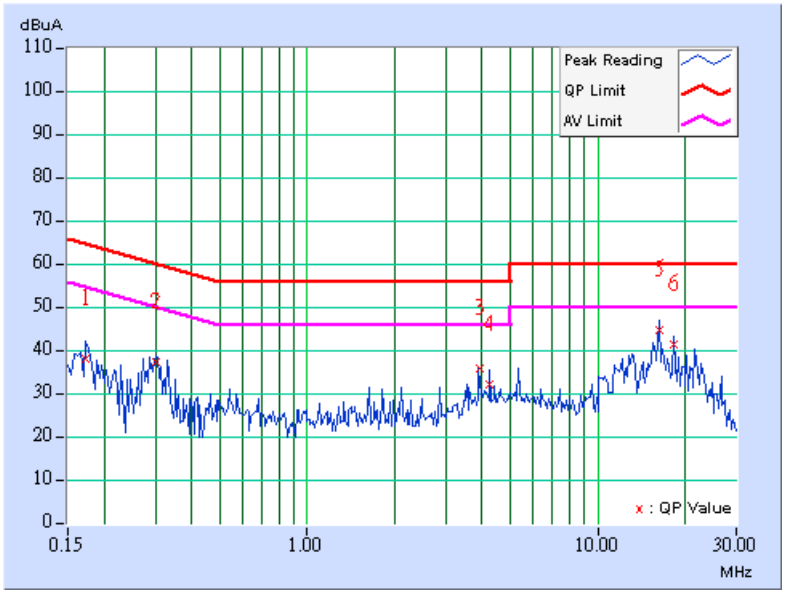
6. Emission Level = Correction Factor + Reading Value.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	27deg. C, 68%RH, 991hPa
TESTED BY	Dean Wang	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.173	0.10	37.77	-	37.87	-	64.79	54.79	-26.92	-
2	0.302	0.10	36.76	-	36.86	-	60.18	50.18	-23.32	-
3	3.904	0.28	35.26	-	35.54	-	56.00	46.00	-20.46	-
4	4.262	0.29	31.85	-	32.14	-	56.00	46.00	-23.86	-
5	16.227	0.50	44.25	-	44.75	-	60.00	50.00	-15.25	-
6	18.242	0.54	40.89	-	41.43	-	60.00	50.00	-18.57	-

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

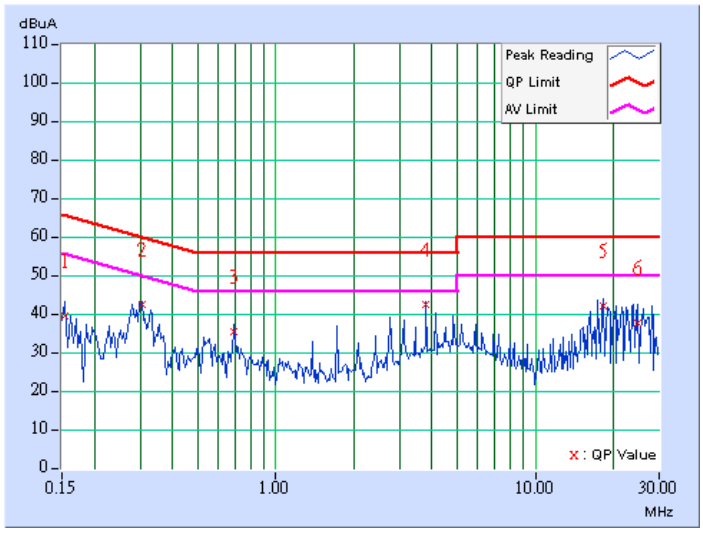


TURBO MODE:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 1
MODULATION TYPE	QPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	12Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
TESTED BY	Match Tsui	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.154	0.10	38.67	-	38.77	-	65.79	55.79	-27.02	-
2	0.306	0.10	41.72	-	41.82	-	60.07	50.07	-18.25	-
3	0.689	0.10	34.64	-	34.74	-	56.00	46.00	-21.26	-
4	3.805	0.27	41.90	-	42.17	-	56.00	46.00	-13.83	-
5	18.328	0.54	41.56	-	42.10	-	60.00	50.00	-17.90	-
6	24.902	0.82	36.87	-	37.69	-	60.00	50.00	-22.31	-

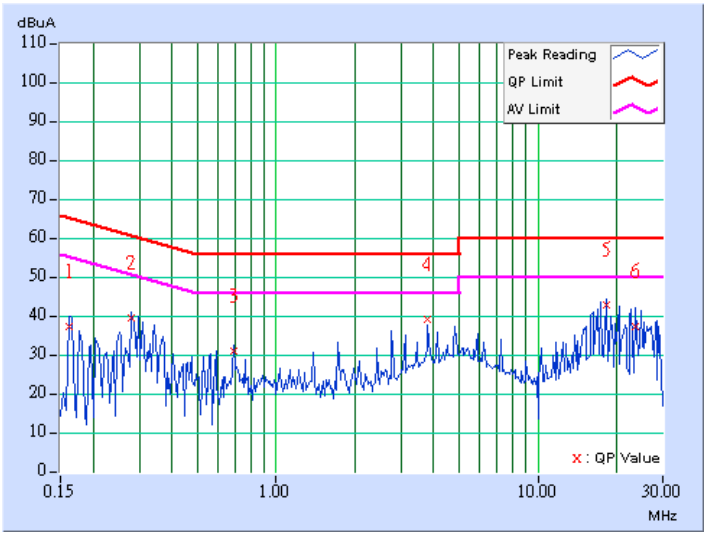
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission 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	QPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	12Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
TESTED BY	Match Tsui	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.162	0.10	36.89	-	36.99	-	65.38	55.38	-28.39	-
2	0.279	0.10	38.80	-	38.90	-	60.85	50.85	-21.95	-
3	0.693	0.15	30.31	-	30.46	-	56.00	46.00	-25.54	-
4	3.803	0.27	38.53	-	38.80	-	56.00	46.00	-17.20	-
5	18.328	0.54	42.31	-	42.85	-	60.00	50.00	-17.15	-
6	23.520	0.68	36.76	-	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.



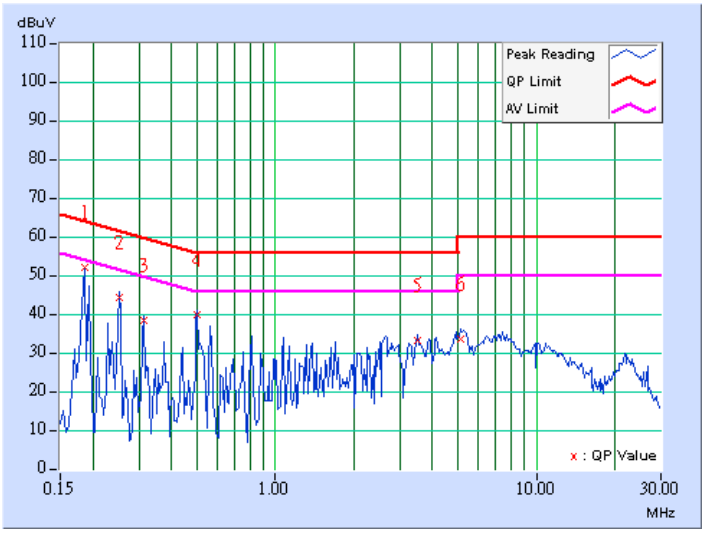
FOR TEST MODE B: ADAPTER 2

NORMAL MODE:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	27deg. C, 68%RH, 991hPa
TESTED BY	Dean Wang	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.186	0.10	51.92	-	52.02	-	64.19	54.19	-12.17	-
2	0.252	0.10	44.32	-	44.42	-	61.71	51.71	-17.29	-
3	0.313	0.10	38.24	-	38.34	-	59.90	49.90	-21.56	-
4	0.501	0.10	39.80	-	39.90	-	56.00	46.00	-16.10	-
5	3.509	0.27	32.86	-	33.13	-	56.00	46.00	-22.87	-
6	5.129	0.29	33.56	-	33.85	-	60.00	50.00	-26.15	-

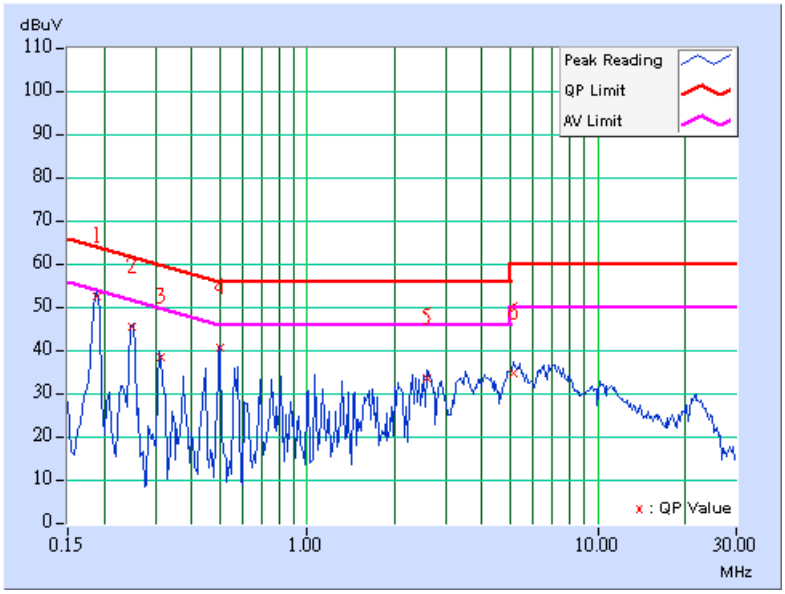
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	27deg. C, 68%RH, 991hPa
TESTED BY	Dean Wang	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.188	0.10	52.32	-	52.42	-	64.13	54.13	-11.71	-
2	0.250	0.10	45.30	-	45.40	-	61.75	51.75	-16.35	-
3	0.313	0.10	38.38	-	38.48	-	59.89	49.89	-21.41	-
4	0.500	0.12	40.46	-	40.58	-	56.00	46.00	-15.42	-
5	2.568	0.24	33.43	-	33.67	-	56.00	46.00	-22.33	-
6	5.129	0.31	34.48	-	34.79	-	60.00	50.00	-25.21	-

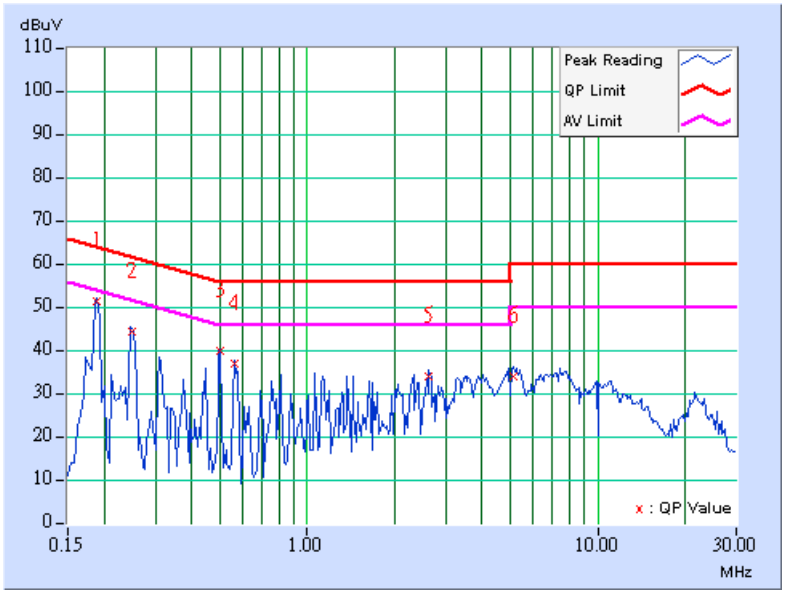
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	27deg. C, 68%RH, 991hPa
TESTED BY	Dean Wang	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.188	0.10	51.25	-	51.35	-	64.13	54.13	-12.78	-
2	0.250	0.10	44.10	-	44.20	-	61.75	51.75	-17.55	-
3	0.501	0.10	39.80	-	39.90	-	56.00	46.00	-16.10	-
4	0.564	0.10	36.82	-	36.92	-	56.00	46.00	-19.08	-
5	2.629	0.24	33.67	-	33.91	-	56.00	46.00	-22.09	-
6	5.129	0.29	33.60	-	33.89	-	60.00	50.00	-26.11	-

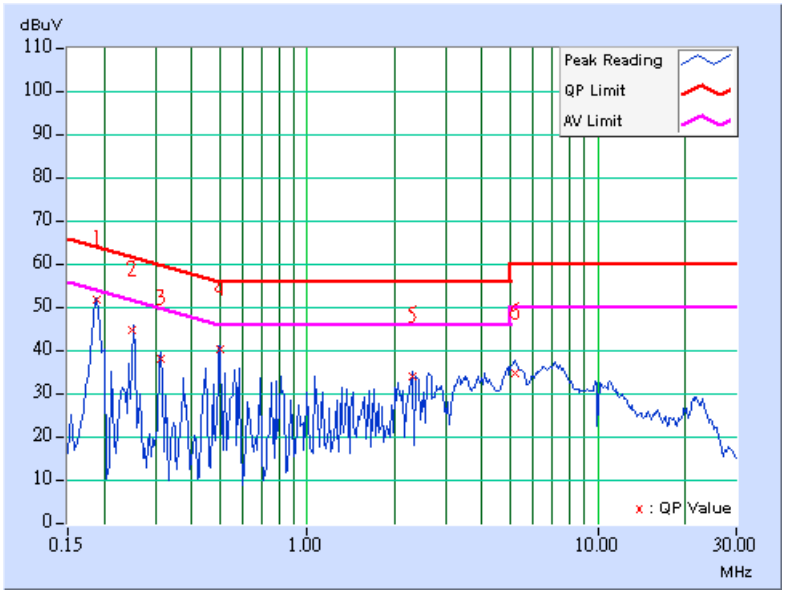
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	27deg. C, 68%RH, 991hPa
TESTED BY	Dean Wang	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.188	0.10	51.61	-	51.71	-	64.13	54.13	-12.42	-
2	0.250	0.10	44.38	-	44.48	-	61.75	51.75	-17.27	-
3	0.313	0.10	37.79	-	37.89	-	59.90	49.90	-22.01	-
4	0.501	0.12	40.15	-	40.27	-	56.00	46.00	-15.73	-
5	2.314	0.23	33.62	-	33.85	-	56.00	46.00	-22.15	-
6	5.186	0.31	34.46	-	34.77	-	60.00	50.00	-25.23	-

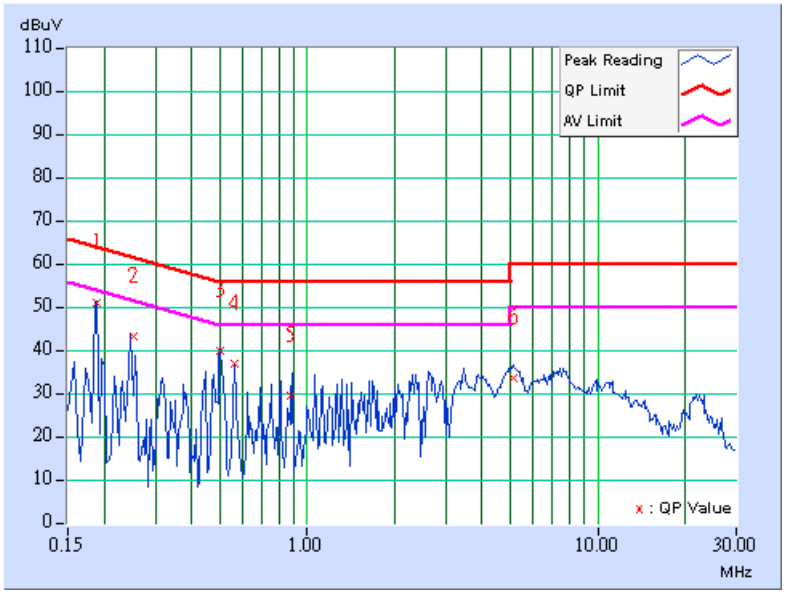
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	27deg. C, 68%RH, 991hPa
TESTED BY	Dean Wang	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.188	0.10	50.76	-	50.86	-	64.13	54.13	-13.27	-
2	0.252	0.10	43.10	-	43.20	-	61.70	51.70	-18.50	-
3	0.502	0.10	39.78	-	39.88	-	56.00	46.00	-16.12	-
4	0.564	0.10	36.82	-	36.92	-	56.00	46.00	-19.08	-
5	0.875	0.11	29.26	-	29.37	-	56.00	46.00	-26.63	-
6	5.133	0.29	33.52	-	33.81	-	60.00	50.00	-26.19	-

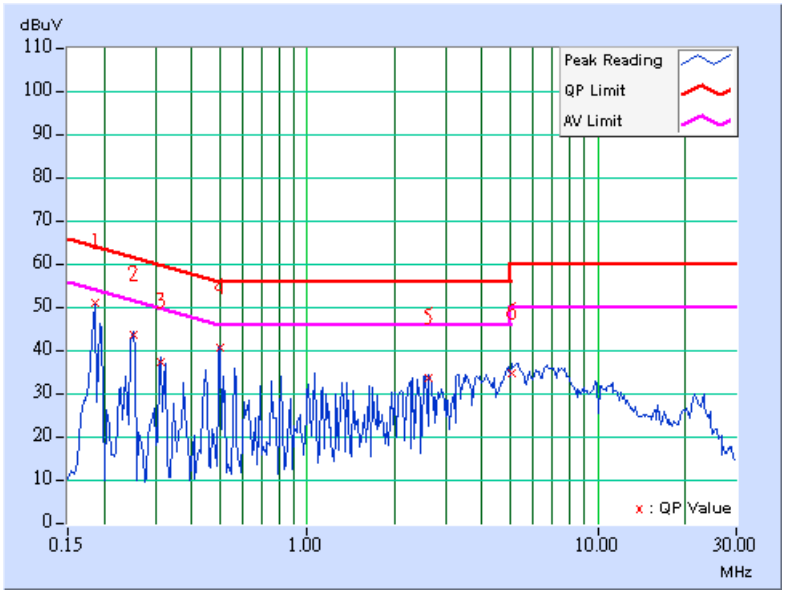
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission 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 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	27deg. C, 68%RH, 991hPa
TESTED BY	Dean Wang	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.186	0.10	50.90	-	51.00	-	64.19	54.19	-13.19	-
2	0.252	0.10	43.39	-	43.49	-	61.71	51.71	-18.22	-
3	0.313	0.10	37.28	-	37.38	-	59.90	49.90	-22.52	-
4	0.499	0.12	40.52	-	40.64	-	56.01	46.01	-15.37	-
5	2.626	0.24	33.39	-	33.63	-	56.00	46.00	-22.37	-
6	5.070	0.31	34.64	-	34.95	-	60.00	50.00	-25.05	-

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.

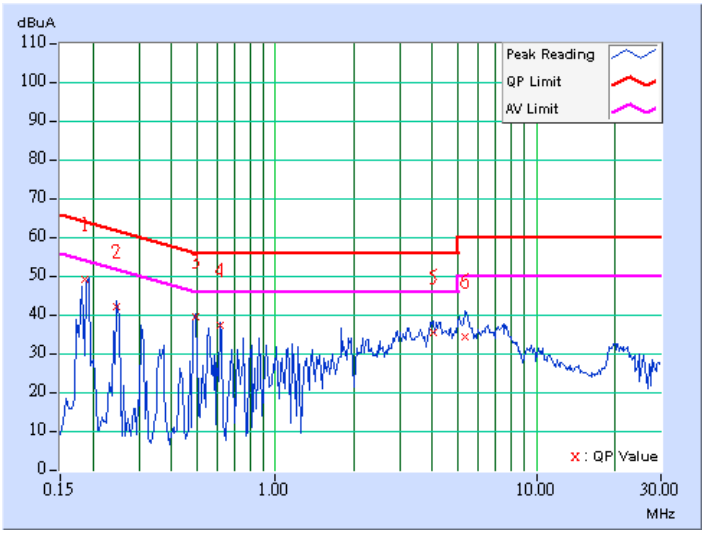


TURBO MODE:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 1
MODULATION TYPE	QPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	12Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
TESTED BY	Match Tsui	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.185	0.10	48.85	-	48.95	-	64.24	54.24	-15.29	-
2	0.248	0.10	41.99	-	42.09	-	61.84	51.84	-19.75	-
3	0.494	0.10	39.35	-	39.45	-	56.10	46.10	-16.65	-
4	0.615	0.10	37.19	-	37.29	-	56.00	46.00	-18.71	-
5	4.039	0.28	35.34	-	35.62	-	56.00	46.00	-20.38	-
6	5.301	0.29	34.11	-	34.40	-	60.00	50.00	-25.60	-

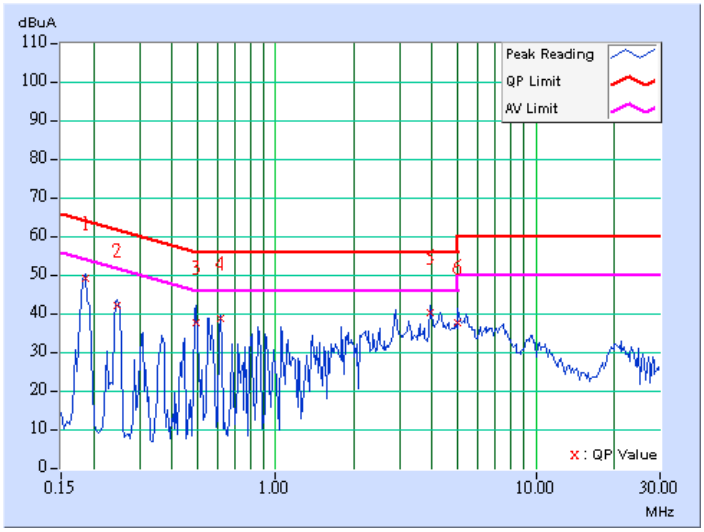
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 2
MODULATION TYPE	QPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	12Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
TESTED BY	Match Tsui	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.185	0.10	48.99	-	49.09	-	64.25	54.25	-15.16	-
2	0.248	0.10	41.91	-	42.01	-	61.84	51.84	-19.83	-
3	0.498	0.12	37.50	-	37.62	-	56.04	46.04	-18.42	-
4	0.615	0.14	38.40	-	38.54	-	56.00	46.00	-17.46	-
5	3.953	0.28	39.97	-	40.25	-	56.00	46.00	-15.75	-
6	5.031	0.31	37.30	-	37.61	-	60.00	50.00	-22.39	-

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.



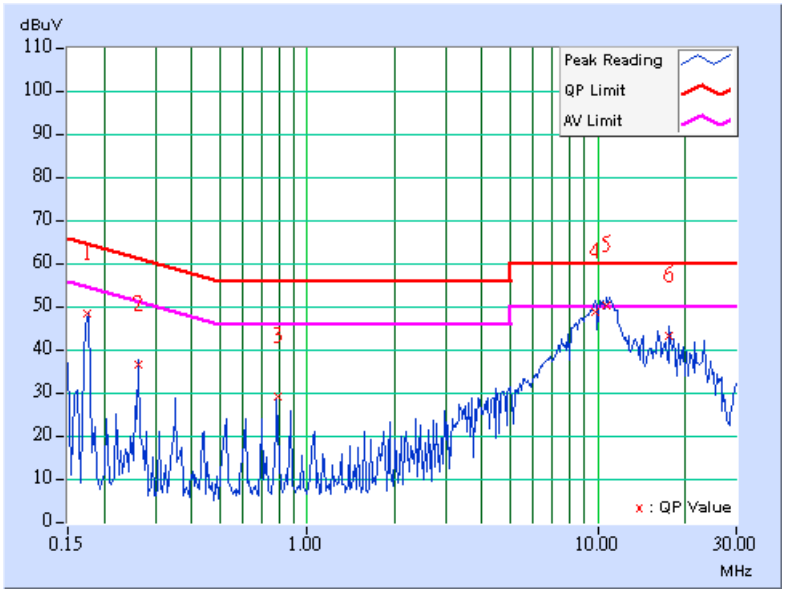
FOR TEST MODE C: POE

NORMAL MODE:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	27deg. C, 68%RH, 991hPa
TESTED BY	Dean Wang	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.175	0.10	48.04	-	48.14	-	64.70	54.70	-16.56	-
2	0.263	0.10	36.10	-	36.20	-	61.33	51.33	-25.13	-
3	0.788	0.11	28.67	-	28.78	-	56.00	46.00	-27.22	-
4	9.809	0.33	48.38	-	48.71	-	60.00	50.00	-11.29	-
5	10.686	0.35	49.70	46.75	50.05	47.10	60.00	50.00	-9.95	-2.90
6	17.694	0.53	42.84	-	43.37	-	60.00	50.00	-16.63	-

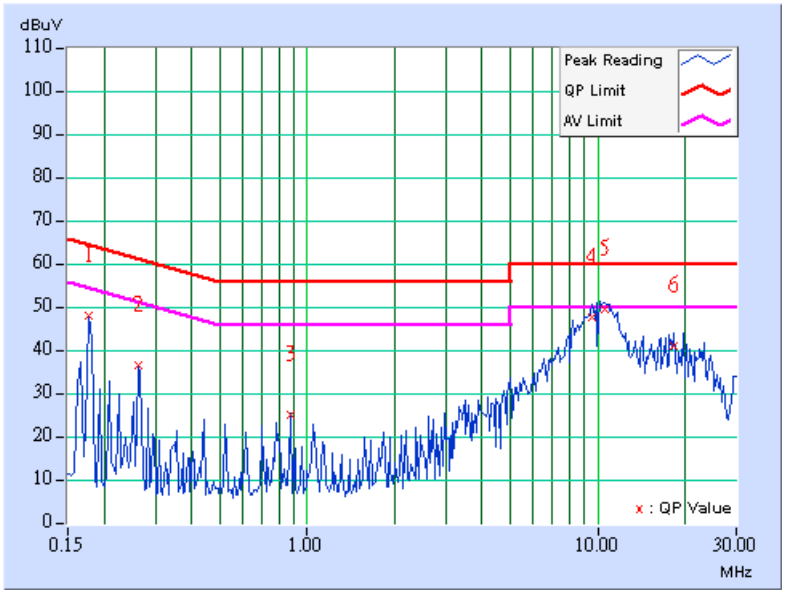
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	27deg. C, 68%RH, 991hPa
TESTED BY	Dean Wang	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.176	0.10	47.71	-	47.81	-	64.67	54.67	-16.86	-
2	0.263	0.10	36.08	-	36.18	-	61.33	51.33	-25.15	-
3	0.877	0.19	24.49	-	24.68	-	56.00	46.00	-31.32	-
4	9.548	0.42	47.22	-	47.64	-	60.00	50.00	-12.36	-
5	10.599	0.44	49.21	-	49.65	-	60.00	50.00	-10.35	-
6	18.305	0.54	40.60	-	41.14	-	60.00	50.00	-18.86	-

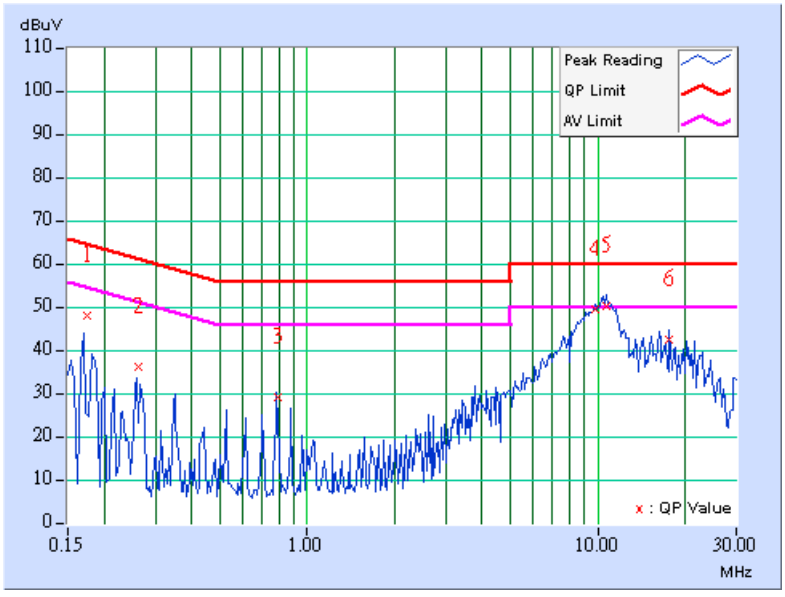
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	27deg. C, 68%RH, 991hPa
TESTED BY	Dean Wang	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.175	0.10	47.69	-	47.79	-	64.73	54.73	-16.94	-
2	0.262	0.10	35.68	-	35.78	-	61.37	51.37	-25.59	-
3	0.789	0.11	28.61	-	28.72	-	56.00	46.00	-27.28	-
4	9.814	0.33	48.97	-	49.30	-	60.00	50.00	-10.70	-
5	**10.690**	**0.35**	**49.86**	**47.56**	**50.21**	**47.91**	**60.00**	**50.00**	**-9.79**	**-2.09**
6	17.694	0.53	42.00	-	42.53	-	60.00	50.00	-17.47	-

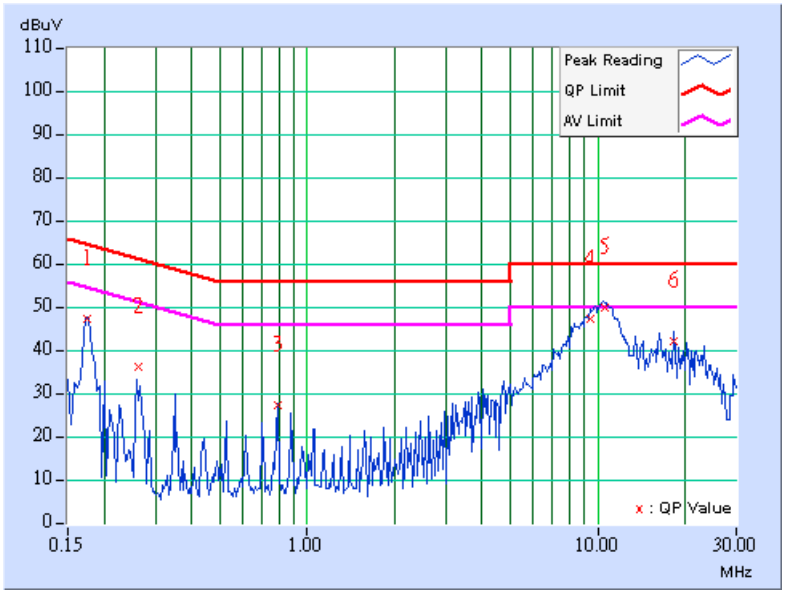
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	27deg. C, 68%RH, 991hPa
TESTED BY	Dean Wang	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.176	0.10	46.74	-	46.84	-	64.68	54.68	-17.84	-
2	0.263	0.10	35.76	-	35.86	-	61.33	51.33	-25.47	-
3	0.789	0.17	26.96	-	27.13	-	56.00	46.00	-28.87	-
4	9.467	0.42	46.78	-	47.20	-	60.00	50.00	-12.80	-
5	10.519	0.44	49.35	-	49.79	-	60.00	50.00	-10.21	-
6	18.242	0.54	41.77	-	42.31	-	60.00	50.00	-17.69	-

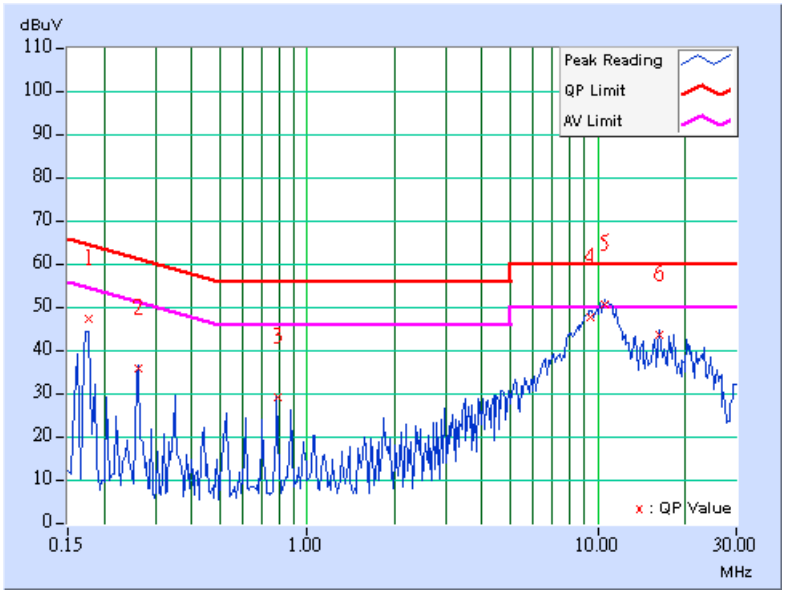
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 1
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	27deg. C, 68%RH, 991hPa
TESTED BY	Dean Wang	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.176	0.10	47.04	-	47.14	-	64.67	54.67	-17.53	-
2	0.263	0.10	35.27	-	35.37	-	61.33	51.33	-25.96	-
3	0.788	0.11	28.83	-	28.94	-	56.00	46.00	-27.06	-
4	9.381	0.32	47.39	-	47.71	-	60.00	50.00	-12.29	-
5	10.609	0.35	50.40	47.04	50.75	47.39	60.00	50.00	-9.25	-2.61
6	16.229	0.50	43.09	-	43.59	-	60.00	50.00	-16.41	-

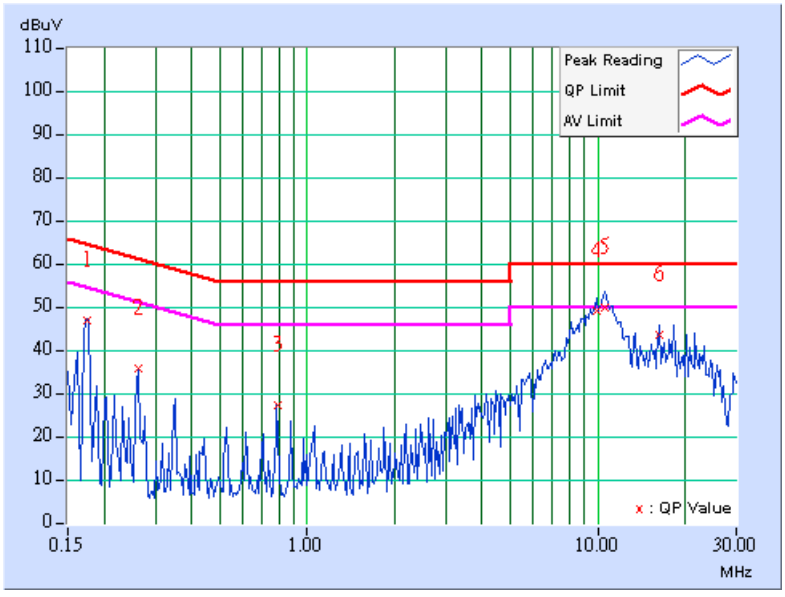
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission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



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	PHASE	Line 2
MODULATION TYPE	BPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	27deg. C, 68%RH, 991hPa
TESTED BY	Dean Wang	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq.	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.175	0.10	46.58	-	46.68	-	64.70	54.70	-18.02	-
2	0.263	0.10	35.46	-	35.56	-	61.33	51.33	-25.77	-
3	0.789	0.17	26.89	-	27.06	-	56.00	46.00	-28.94	-
4	9.910	0.43	48.59	-	49.02	-	60.00	50.00	-10.98	-
5	10.612	0.44	49.66	46.44	50.10	46.88	60.00	50.00	-9.90	-3.12
6	16.229	0.50	43.15	-	43.65	-	60.00	50.00	-16.35	-

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

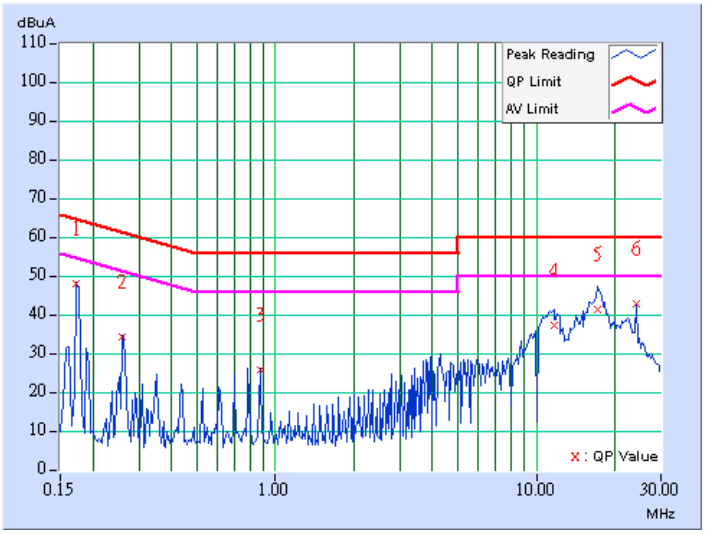


TURBO MODE:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	PHASE	Line 1
MODULATION TYPE	QPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	12Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
TESTED BY	Match Tsui	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.173	0.10	47.19	-	47.29	-	64.79	54.79	-17.50	-
2	0.259	0.10	33.70	-	33.80	-	61.45	51.45	-27.65	-
3	0.873	0.11	25.12	-	25.23	-	56.00	46.00	-30.77	-
4	11.695	0.38	36.67	-	37.05	-	60.00	50.00	-22.95	-
5	17.195	0.52	40.56	-	41.08	-	60.00	50.00	-18.92	-
6	24.227	0.78	42.21	-	42.99	-	60.00	50.00	-17.01	-

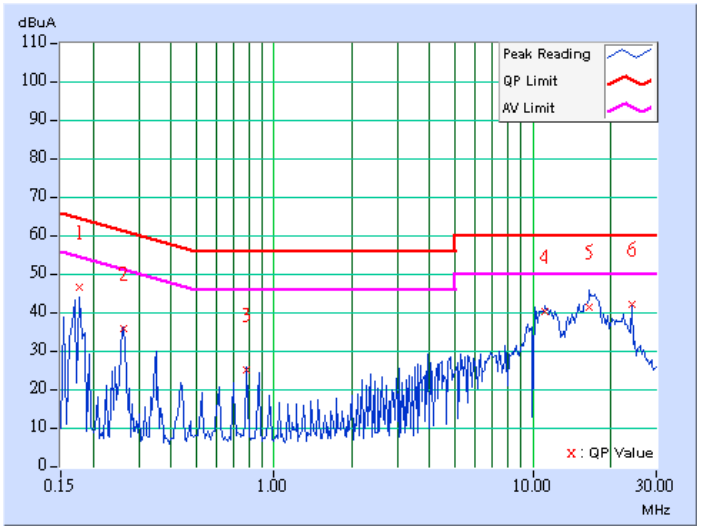
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission 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	QPSK	6dB BANDWIDTH	9 kHz
TRANSFER RATE	12Mbps	ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 991hPa
TESTED BY	Match Tsui	INPUT POWER (SYSTEM)	120Vac, 60 Hz

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.177	0.10	45.83	-	45.93	-	64.61	54.61	-18.68	-
2	0.263	0.10	35.14	-	35.24	-	61.33	51.33	-26.09	-
3	0.787	0.17	24.48	-	24.65	-	56.00	46.00	-31.35	-
4	11.172	0.44	39.85	-	40.29	-	60.00	50.00	-19.71	-
5	16.582	0.51	40.69	-	41.20	-	60.00	50.00	-18.80	-
6	24.227	0.70	41.53	-	42.23	-	60.00	50.00	-17.77	-

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 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. 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 method or average method as specified and then reported in data sheet.

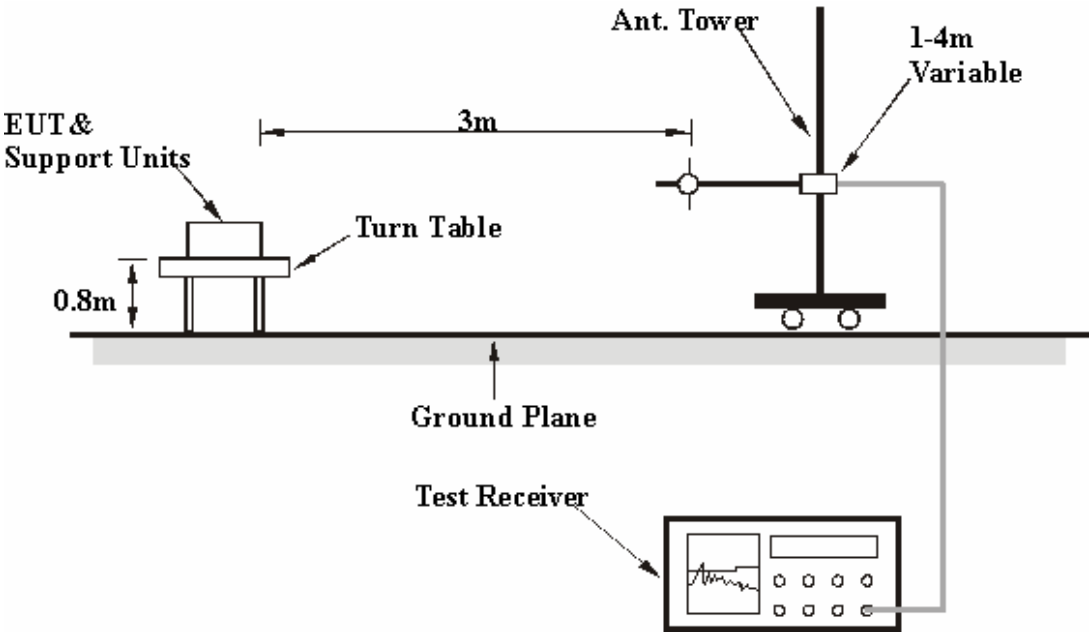
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection 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 1 MHz and the video bandwidth is 10 Hz 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

RADIATED WORST-CASE DATA: BELOW 1GHz

FOR TEST MODE A: ADAPTER 1

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	**FREQUENCY RANGE**	Below 1000MHz
MODULATION TYPE	BPSK	**DETECTOR FUNCTION**	Quasi-Peak
TRANSFER RATE	6Mbps	**ENVIRONMENTAL CONDITIONS**	24deg. C, 71%RH, 983hPa
TESTED BY	Dean Wang	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz

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	184.01	40.97 QP	43.50	-2.53	2.00 H	281	29.28	11.69
2	214.61	37.71 QP	43.50	-5.79	1.00 H	277	26.74	10.97
3	249.60	37.83 QP	46.00	-8.17	1.00 H	289	25.30	12.54
4	399.31	36.98 QP	46.00	-9.02	1.00 H	61	21.29	15.69
5	624.85	33.15 QP	46.00	-12.85	1.00 H	22	11.83	21.32
6	735.68	33.47 QP	46.00	-12.53	1.00 H	10	10.62	22.85
7	829.00	34.64 QP	46.00	-11.36	1.00 H	10	10.00	24.64

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	29.90	35.36 QP	40.00	-4.64	2.00 V	100	23.27	12.09
2	92.12	33.74 QP	43.50	-9.76	1.00 V	136	24.69	9.05
3	101.84	38.14 QP	43.50	-5.36	1.00 V	115	28.77	9.37
4	148.50	32.54 QP	43.50	-10.96	1.00 V	10	19.08	13.46
5	183.50	39.69 QP	43.50	-3.81	1.00 V	247	27.96	11.73
6	249.60	39.81 QP	46.00	-6.19	1.50 V	4	27.28	12.54
7	276.82	37.26 QP	46.00	-8.74	1.50 V	154	24.28	12.98

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.

FOR TEST MODE B: ADAPTER 2

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	24deg. C, 71%RH, 983hPa
TESTED BY	Dean Wang	INPUT POWER (SYSTEM)	120Vac, 60 Hz

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	109.62	33.77 QP	43.50	-9.73	1.50 H	136	22.66	11.12
2	183.40	41.80 QP	43.50	-1.70	1.22 H	253	29.32	12.48
3	274.88	37.76 QP	46.00	-8.24	1.00 H	226	23.54	14.22
4	399.31	34.86 QP	46.00	-11.14	1.50 H	163	17.55	17.31
5	552.91	33.94 QP	46.00	-12.06	1.50 H	22	12.05	21.89
6	829.00	33.92 QP	46.00	-12.08	1.00 H	10	7.07	26.85

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	34.29 QP	40.00	-5.71	1.50 V	184	21.76	12.53
2	111.56	39.76 QP	43.50	-3.74	1.00 V	190	28.43	11.32
3	132.95	39.80 QP	43.50	-3.70	1.00 V	202	26.80	13.00
4	183.50	41.34 QP	43.50	-2.16	1.00 V	319	28.87	12.47
5	665.68	39.01 QP	46.00	-6.99	1.00 V	157	14.43	24.57
6	803.73	36.75 QP	46.00	-9.25	1.00 V	268	10.26	26.48

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)

3The other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.

FOR TEST MODE C: POE

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	FREQUENCY RANGE	Below 1000MHz
MODULATION TYPE	BPSK	DETECTOR FUNCTION	Quasi-Peak
TRANSFER RATE	6Mbps	ENVIRONMENTAL CONDITIONS	24deg. C, 71%RH, 983hPa
TESTED BY	Dean Wang	INPUT POWER (SYSTEM)	120Vac, 60 Hz

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	78.51	35.38 QP	40.00	-4.62	2.00 H	199	24.10	11.28
2	101.84	38.86 QP	43.50	-4.64	2.00 H	142	28.57	10.29
3	183.50	41.78 QP	43.50	-1.72	1.50 H	310	29.31	12.47
4	274.88	40.80 QP	46.00	-5.20	1.00 H	295	26.58	14.22
5	624.85	34.93 QP	46.00	-11.07	1.50 H	196	11.23	23.70
6	735.68	34.97 QP	46.00	-11.03	1.00 H	163	9.30	25.66
7	829.00	35.14 QP	46.00	-10.86	2.00 H	10	8.29	26.85

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	55.18	38.33 QP	40.00	-1.67	1.00 V	268	24.25	14.08
2	74.62	38.50 QP	40.00	-1.50	1.00 V	40	26.82	11.68
3	101.84	41.61 QP	43.50	-1.89	1.00 V	193	31.32	10.29
4	184.00	42.16 QP	43.50	-1.34	1.38 V	191	29.72	12.44
5	401.26	34.93 QP	46.00	-11.07	1.00 V	181	17.56	17.37
6	665.68	34.98 QP	46.00	-11.02	1.00 V	115	10.41	24.57
7	801.78	37.37 QP	46.00	-8.63	1.00 V	343	10.91	26.46

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.

ABOVE 1GHz WORST-CASE DATA
802.11b DSSS MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	1 ~ 25GHz
MODULATION TYPE	DBPSK	DETECTOR FUNCTION	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps	ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 983hPa
TESTED BY	Match Tsui	INPUT POWER (SYSTEM)	120Vac, 60 Hz

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2386.00	56.35 PK	74.00	-17.65	1.32 H	40	24.13	32.22
2	2386.00	45.81 AV	54.00	-8.19	1.32 H	40	13.59	32.22
3	*2412.00	100.99 PK			1.32 H	40	68.68	32.31
4	*2412.00	95.97 AV			1.32 H	40	63.66	32.31
5	3216.00	46.69 PK	74.00	-27.31	1.16 H	92	12.21	34.48
6	3216.00	37.33 AV	54.00	-16.67	1.16 H	92	2.85	34.48
7	4824.00	47.56 PK	74.00	-26.44	1.00 H	360	8.99	38.57
8	4824.00	33.99 AV	54.00	-20.01	1.00 H	360	-4.58	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	2320.00	56.78 PK	74.00	-17.22	1.22 V	5	24.81	31.97
2	2320.00	46.39 AV	54.00	-7.61	1.22 V	5	14.42	31.97
3	2386.00	61.88 PK	74.00	-12.12	1.21 V	351	29.66	32.22
4	2386.00	52.53 AV	54.00	-1.47	1.21 V	351	20.31	32.22
5	*2412.00	111.64 PK			1.00 V	344	79.33	32.31
6	*2412.00	107.10 AV			1.00 V	344	74.79	32.31
7	3216.00	50.35 PK	74.00	-23.65	1.34 V	85	15.87	34.48
8	3216.00	42.34 AV	54.00	-11.66	1.34 V	85	7.86	34.48
9	4824.00	48.70 PK	74.00	-25.30	1.00 V	188	10.13	38.57
10	4824.00	37.14 AV	54.00	-16.86	1.00 V	188	-1.43	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. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	**FREQUENCY RANGE**	1 ~ 25GHz
MODULATION TYPE	DBPSK	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps	**ENVIRONMENTAL CONDITIONS**	25deg. C, 65%RH, 983hPa
TESTED BY	Match Tsui	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	101.06 PK			1.09 H	360	68.65	32.41
2	*2437.00	96.46 AV			1.09 H	360	64.05	32.41
3	3249.00	47.66 PK	74.00	-26.34	1.10 H	102	13.14	34.52
4	3249.00	38.31 AV	54.00	-15.69	1.10 H	102	3.79	34.52
5	4874.00	48.60 PK	74.00	-25.40	1.01 H	360	9.89	38.71
6	4874.00	34.73 AV	54.00	-19.27	1.01 H	360	-3.98	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	2390.00	57.32 PK	74.00	-16.68	1.16 V	182	25.09	32.23
2	2390.00	48.51 AV	54.00	-5.49	1.16 V	182	16.28	32.23
3	*2437.00	111.84 PK			1.14 V	208	79.43	32.41
4	*2437.00	107.28 AV			1.14 V	208	74.87	32.41
5	3249.00	51.36 PK	74.00	-22.64	1.38 V	100	16.84	34.52
6	3249.00	43.42 AV	54.00	-10.58	1.38 V	100	8.90	34.52
7	4874.00	50.16 PK	74.00	-23.84	1.01 V	190	11.45	38.71
8	4874.00	37.90 AV	54.00	-16.10	1.01 V	190	-0.81	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. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	**FREQUENCY RANGE**	1 ~ 25GHz
MODULATION TYPE	DBPSK	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
TRANSFER RATE	1Mbps	**ENVIRONMENTAL CONDITIONS**	25deg. C, 65%RH, 983hPa
TESTED BY	Match Tsui	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	101.94 PK			1.11 H	223	69.44	32.50
2	*2462.00	97.37 AV			1.11 H	223	64.87	32.50
3	2487.00	56.98 PK	74.00	-17.02	1.11 H	223	24.39	32.59
4	2487.00	45.91 AV	54.00	-8.09	1.11 H	223	13.32	32.59
5	3282.00	48.13 PK	74.00	-25.87	1.10 H	106	13.58	34.56
6	3282.00	38.77 AV	54.00	-15.23	1.10 H	106	4.22	34.56
7	4924.00	49.40 PK	74.00	-24.60	1.01 H	1	10.56	38.84
8	4924.00	35.46 AV	54.00	-18.54	1.01 H	1	-3.38	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	*2462.00	112.64 PK			1.10 V	198	80.14	32.50
2	*2462.00	108.06 AV			1.10 V	198	75.56	32.50
3	2488.00	59.16 PK	74.00	-14.84	1.38 V	195	26.56	32.60
4	2488.00	49.88 AV	54.00	-4.12	1.38 V	195	17.28	32.60
5	3282.00	51.79 PK	74.00	-22.21	1.27 V	100	17.24	34.56
6	3282.00	43.67 AV	54.00	-10.33	1.27 V	100	9.12	34.56
7	4924.00	50.40 PK	74.00	-23.60	1.01 V	196	11.56	38.84
8	4924.00	38.58 AV	54.00	-15.42	1.01 V	196	-0.26	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. " * ": Fundamental frequency.

802.11g OFDM MODULATION

NORMAL MODE:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	**FREQUENCY RANGE**	1 ~ 25GHz
MODULATION TYPE	BPSK	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps	**ENVIRONMENTAL CONDITIONS**	25deg. C, 65%RH, 983hPa
TESTED BY	Match Tsui	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	58.35 PK	74.00	-15.65	1.61 H	97	26.12	32.23
2	2390.00	46.09 AV	54.00	-7.91	1.61 H	97	13.86	32.23
3	*2412.00	98.83 PK			1.61 H	97	66.52	32.31
4	*2412.00	89.15 AV			1.61 H	97	56.84	32.31
5	3216.00	47.99 PK	74.00	-26.01	1.17 H	87	13.51	34.48
6	3216.00	38.19 AV	54.00	-15.81	1.17 H	87	3.71	34.48
7	4824.00	47.45 PK	74.00	-26.55	1.00 H	0	8.88	38.57
8	4824.00	34.70 AV	54.00	-19.30	1.00 H	0	-3.87	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	2320.00	58.07 PK	74.00	-15.93	1.24 V	318	26.10	31.97
2	2320.00	48.36 AV	54.00	-5.64	1.24 V	318	16.39	31.97
3	2390.00	69.91 PK	74.00	-4.09	1.15 V	184	37.68	32.23
4	**2390.00**	**52.72 AV**	**54.00**	**-1.28**	**1.15 V**	**184**	**20.49**	**32.23**
5	*2412.00	110.57 PK			1.14 V	196	78.26	32.31
6	*2412.00	100.13 AV			1.14 V	196	67.82	32.31
7	3216.00	52.90 PK	74.00	-21.10	1.00 V	90	18.42	34.48
8	3216.00	44.62 AV	54.00	-9.38	1.00 V	90	10.14	34.48
9	4824.00	47.07 PK	74.00	-26.93	1.00 V	1	8.50	38.57
10	4824.00	34.34 AV	54.00	-19.66	1.00 V	1	-4.23	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. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	**FREQUENCY RANGE**	1 ~ 25GHz
MODULATION TYPE	BPSK	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps	**ENVIRONMENTAL CONDITIONS**	25deg. C, 65%RH, 983hPa
TESTED BY	Match Tsui	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	102.71 PK			1.29 H	48	70.30	32.41
2	*2437.00	92.37 AV			1.29 H	48	59.96	32.41
3	3249.00	46.64 PK	74.00	-27.36	1.00 H	94	12.12	34.52
4	3249.00	38.04 AV	54.00	-15.96	1.00 H	94	3.52	34.52
5	4874.00	47.52 PK	74.00	-26.48	1.00 H	0	8.81	38.71
6	4874.00	34.78 AV	54.00	-19.22	1.00 H	0	-3.93	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	2389.00	58.71 PK	74.00	-15.29	1.10 V	143	26.48	32.23
2	2389.00	49.45 AV	54.00	-4.55	1.10 V	143	17.22	32.23
3	*2437.00	112.84 PK			1.07 V	145	80.43	32.41
4	*2437.00	102.64 AV			1.07 V	145	70.23	32.41
5	3249.00	47.16 PK	74.00	-26.84	1.10 V	143	12.64	34.52
6	3249.00	37.87 AV	54.00	-16.13	1.10 V	143	3.35	34.52
7	4874.00	47.59 PK	74.00	-26.41	1.00 V	0	8.88	38.71
8	4874.00	35.85 AV	54.00	-18.15	1.00 V	0	-2.86	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. " * ": Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 11	**FREQUENCY RANGE**	1 ~ 25GHz
MODULATION TYPE	BPSK	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
TRANSFER RATE	6Mbps	**ENVIRONMENTAL CONDITIONS**	25deg. C, 65%RH, 983hPa
TESTED BY	Match Tsui	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	103.31 PK			1.31 H	41	70.81	32.50
2	*2462.00	92.63 AV			1.31 H	41	60.13	32.50
3	2483.50	58.15 PK	74.00	-15.85	1.31 H	41	25.57	32.58
4	2483.50	47.91 AV	54.00	-6.09	1.31 H	41	15.33	32.58
5	3282.00	45.86 PK	74.00	-28.14	1.26 H	282	11.31	34.56
6	3282.00	37.09 AV	54.00	-16.91	1.26 H	282	2.54	34.56
7	4924.00	45.91 PK	74.00	-28.09	1.04 H	360	7.07	38.84
8	4924.00	34.68 AV	54.00	-19.32	1.04 H	360	-4.16	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	*2462.00	112.32 PK			1.11 V	196	79.82	32.50
2	*2462.00	101.63 AV			1.11 V	196	69.13	32.50
3	2483.50	64.57 PK	74.00	-9.43	1.37 V	194	31.99	32.58
4	2483.50	52.51 AV	54.00	-1.49	1.37 V	194	19.93	32.58
5	3282.00	48.97 PK	74.00	-25.03	1.04 V	274	14.42	34.56
6	3282.00	44.05 AV	54.00	-9.95	1.04 V	274	9.50	34.56
7	4924.00	47.66 PK	74.00	-26.34	1.01 V	360	8.82	38.84
8	4924.00	35.28 AV	54.00	-18.72	1.01 V	360	-3.56	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. " * ": Fundamental frequency.

TURBO MODE:

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 6	**FREQUENCY RANGE**	1 ~ 25GHz
MODULATION TYPE	QPSK	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
TRANSFER RATE	12Mbps	**ENVIRONMENTAL CONDITIONS**	25deg. C, 65%RH, 983hPa
TESTED BY	Match Tsui	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	99.25 PK			1.26 H	50	66.82	32.43
2	*2437.00	89.84 AV			1.26 H	50	57.41	32.43
3	3249.00	46.82 PK	74.00	-27.18	1.13 H	26	12.27	34.55
4	3249.00	38.25 AV	54.00	-15.75	1.13 H	26	3.70	34.55
5	4874.00	47.68 PK	74.00	-26.32	1.11 H	59	8.94	38.74
6	4874.00	34.92 AV	54.00	-19.08	1.11 H	59	-3.82	38.74

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	68.81 PK	74.00	-5.19	1.30 V	23	36.56	32.25
2	2390.00	52.24 AV	54.00	-1.76	1.30 V	23	19.99	32.25
3	*2437.00	109.39 PK			1.28 V	1	76.96	32.43
4	*2437.00	99.96 AV			1.28 V	1	67.53	32.43
5	2483.50	69.57 PK	74.00	-4.43	1.30 V	23	36.96	32.61
6	2483.50	51.46 AV	54.00	-2.54	1.30 V	23	18.85	32.61
7	3249.00	49.35 PK	74.00	-24.65	1.08 V	213	14.80	34.55
8	3249.00	39.91 AV	54.00	-14.09	1.08 V	213	5.36	34.55
9	4874.00	48.68 PK	74.00	-25.32	1.11 V	24	9.94	38.74
10	4874.00	36.92 AV	54.00	-17.08	1.11 V	24	-1.82	38.74

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

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	FSP 40	100040	Jun. 28, 2008

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

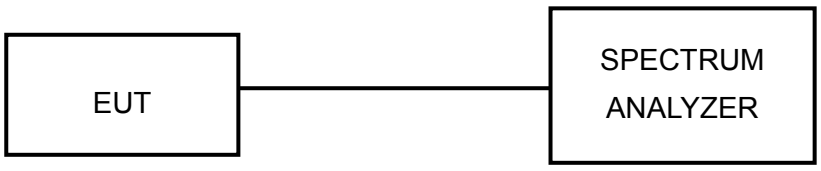
4.3.3 TEST PROCEDURE

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

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITIONS

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

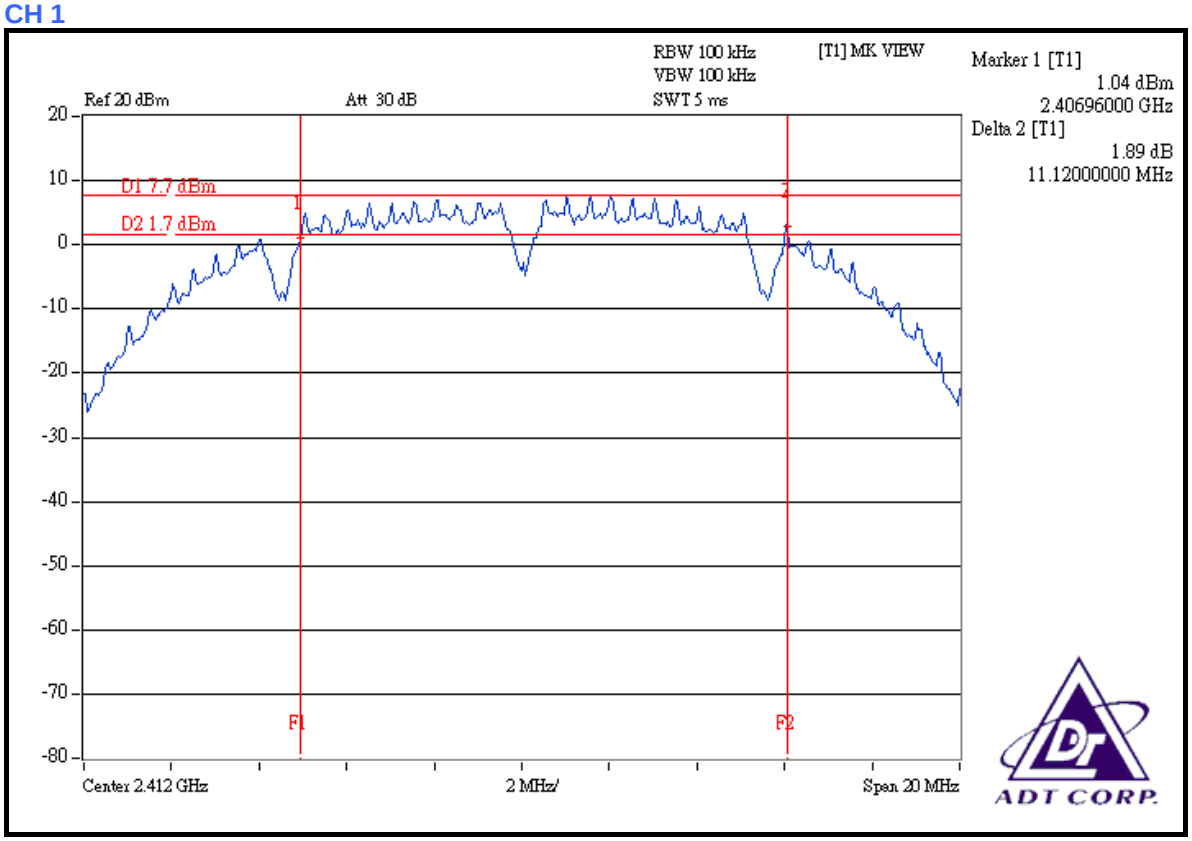
4.3.7 TEST RESULTS

802.11b DSSS MODULATION

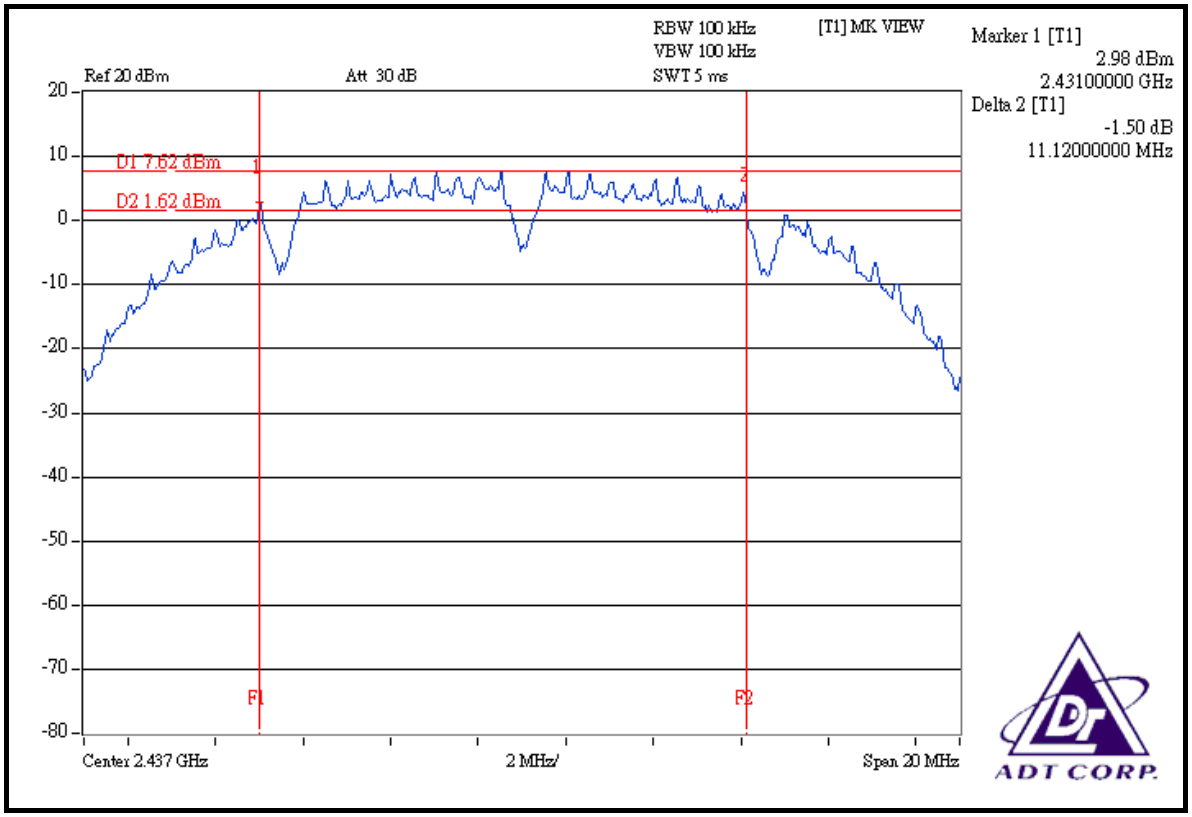
MODULATION TYPE	DBPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH, 991hPa
TESTED BY	Long Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	11.12	0.5	PASS
6	2437	11.12	0.5	PASS
11	2462	11.12	0.5	PASS

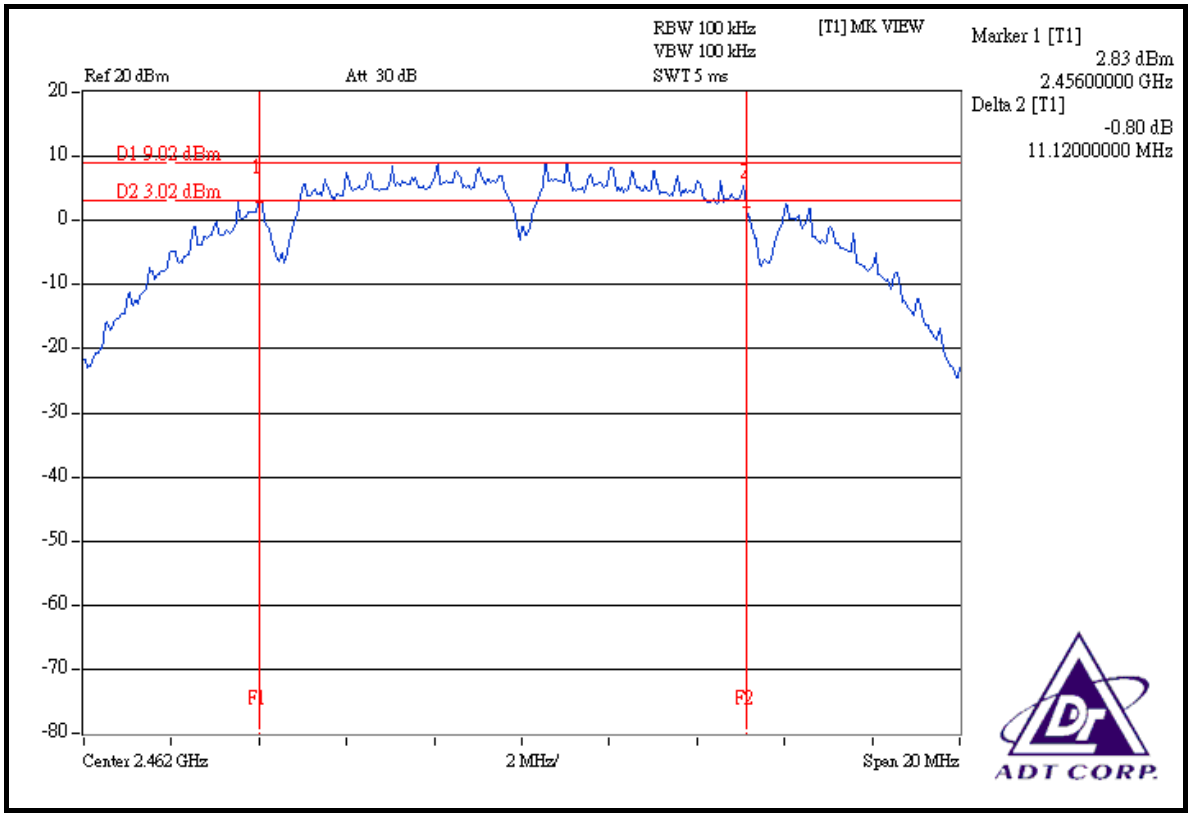
CH 1



CH 6


RBW 100 kHz
VBW 100 kHz
SWT 5 ms
[T1] MK VIEW
Marker 1 [T1]
2.98 dBm
2.43100000 GHz
Delta 2 [T1]
-1.50 dB
11.12000000 MHz
Ref 20 dBm
Att 30 dB
D1 7.62 dBm
D2 1.62 dBm
F1
F2
Center 2.437 GHz
2 MHz/
Span 20 MHz
ADT CORP.

CH 11

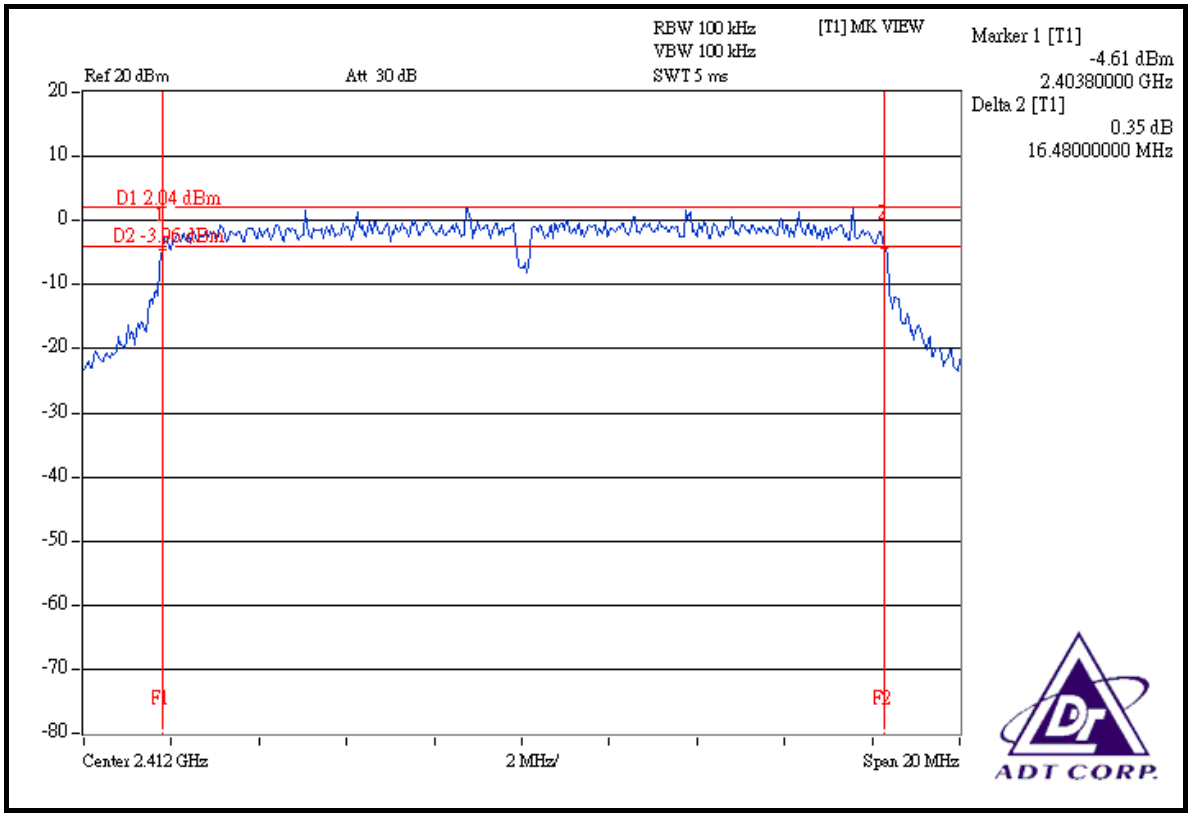

RBW 100 kHz
VBW 100 kHz
SWT 5 ms
[T1] MK VIEW
Marker 1 [T1]
2.83 dBm
2.45600000 GHz
Delta 2 [T1]
-0.80 dB
11.12000000 MHz
Ref 20 dBm
Att 30 dB
D1 9.02 dBm
D2 3.02 dBm
F1
F2
Center 2.462 GHz
2 MHz/
Span 20 MHz
ADT CORP.

802.11g OFDM MODULATION

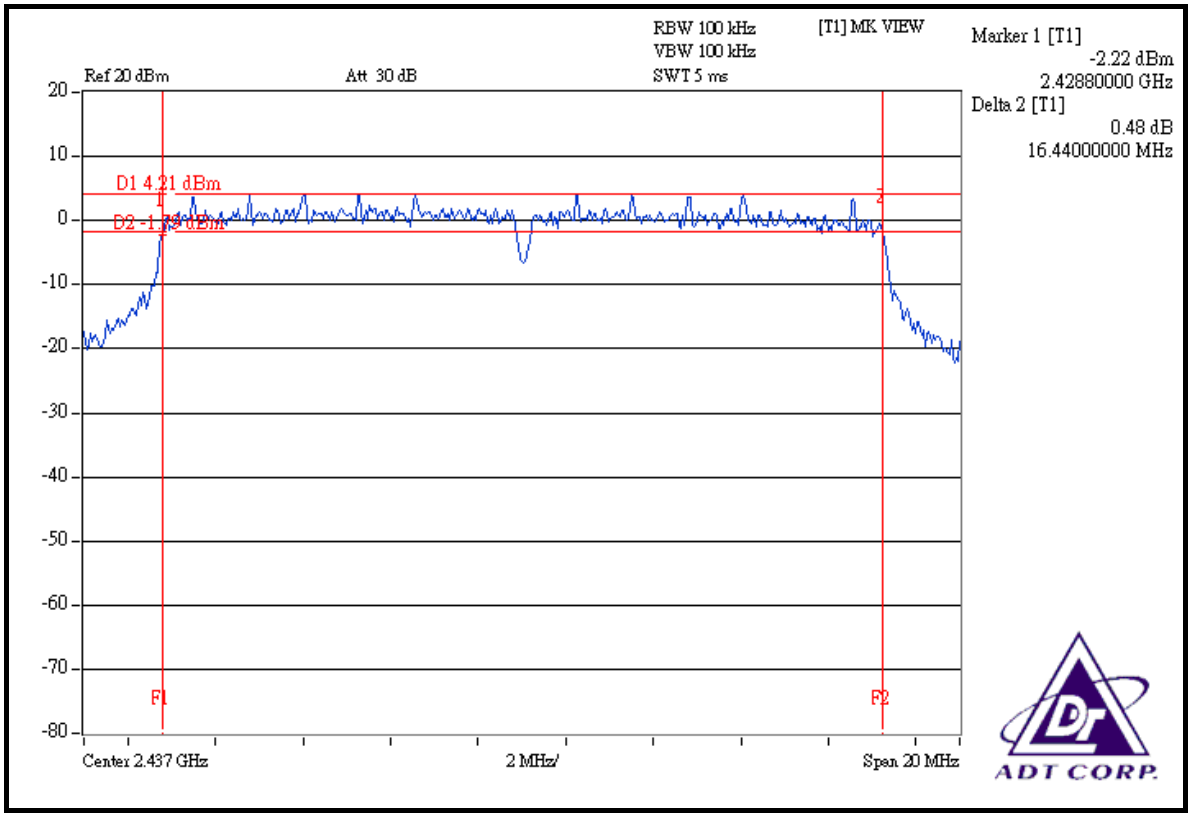
MODULATION TYPE	BPSK for normal mode QPSK for turbo mode	TRANSFER RATE	6Mbps for normal mode 12Mbps for turbo mode
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH, 991hPa
TESTED BY	Long Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
1	2412	16.48	0.5	PASS
6	2437	16.44	0.5	PASS
11	2462	16.40	0.5	PASS
6 (Turbo)	2437	31.36	0.5	PASS

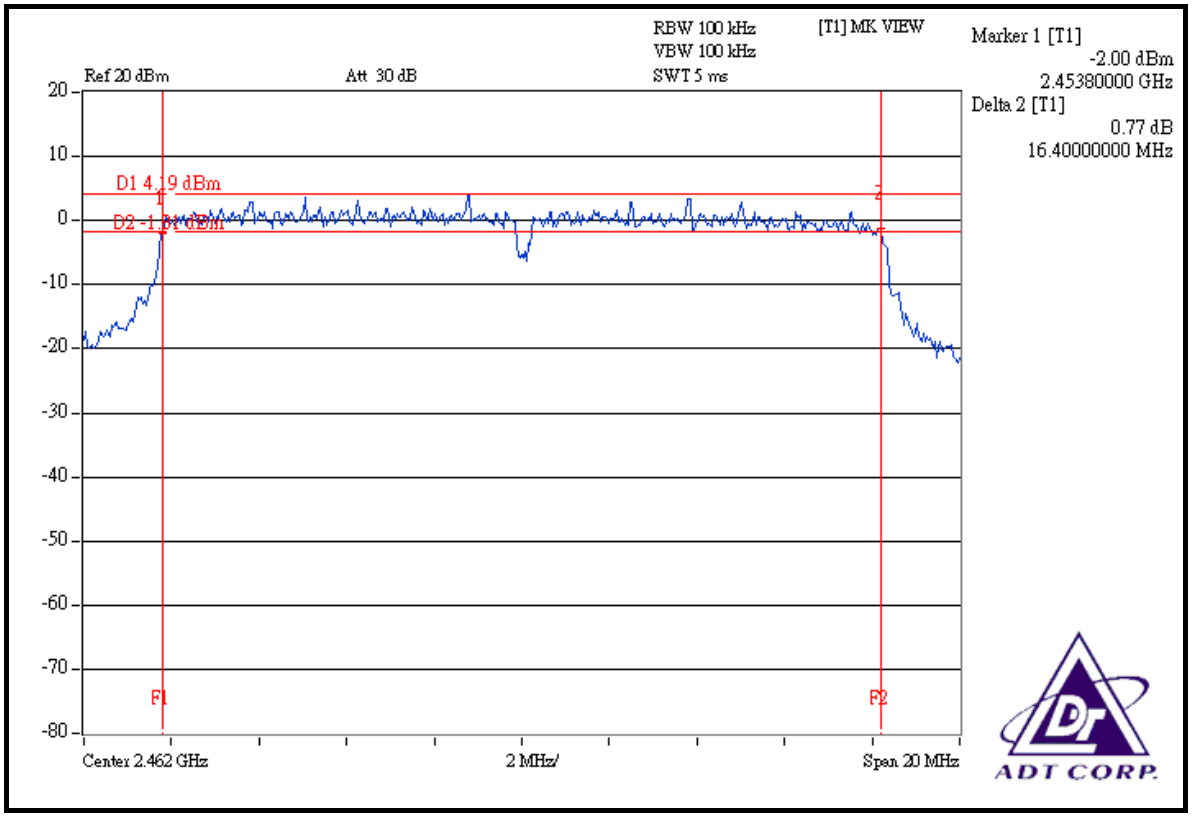
CH 1



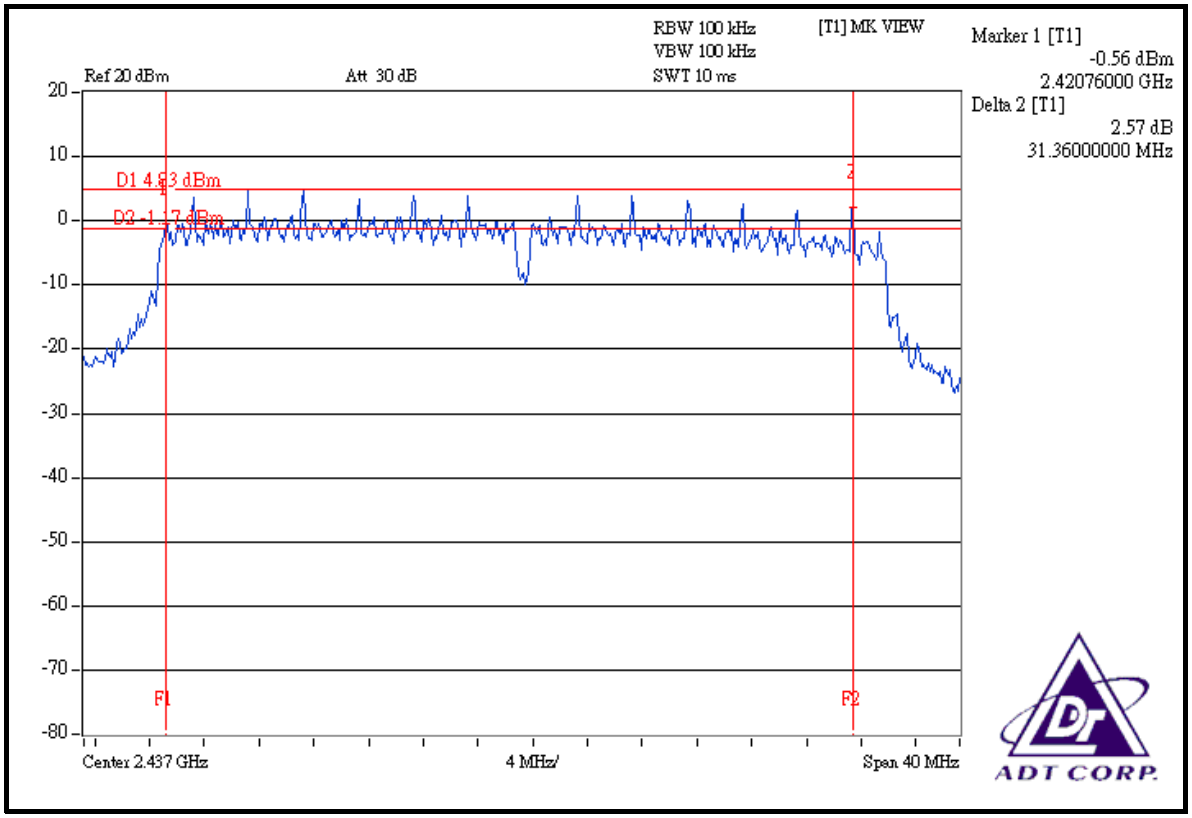
CH 6


RBW 100 kHz
VBW 100 kHz
SWT 5 ms
[T1] MK VIEW
Marker 1 [T1]
-2.22 dBm
2.42880000 GHz
Delta 2 [T1]
0.48 dB
16.44000000 MHz
Ref 20 dBm
Att 30 dB
D1 4.21 dBm
F1
F2
Center 2.437 GHz
2 MHz/
Span 20 MHz
ADT CORP.

CH 11


RBW 100 kHz
VBW 100 kHz
SWT 5 ms
[T1] MK VIEW
Marker 1 [T1]
-2.00 dBm
2.45380000 GHz
Delta 2 [T1]
0.77 dB
16.40000000 MHz
Ref 20 dBm
Att 30 dB
D1 4.19 dBm
F1
F2
Center 2.462 GHz
2 MHz/
Span 20 MHz
ADT CORP.

CH 6 (Turbo)


RBW 100 kHz
VBW 100 kHz
SWT 10 ms
[T1] MK VIEW
Marker 1 [T1]
-0.56 dBm
2.42076000 GHz
Delta 2 [T1]
2.57 dB
31.36000000 MHz
Ref 20 dBm
Att 30 dB
D1 4.43 dBm
D2 -1.17 dBm
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
F1
F2
Center 2.437 GHz
4 MHz/
Span 40 MHz
ADT CORP.

4.4 MAXIMUM PEAK OUTPUT POWER

4.4.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.4.2 INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP40	100040	Jun. 28, 2008
AGILENT SIGNAL GENERATOR	E8257C	MY43320668	Dec. 28, 2007
TEKTRONIX OSCILLOSCOPE	TDS1012	C037299	Nov. 27, 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

1. A detector was used on the output port of the EUT. An oscilloscope was used to read the response of the detector.

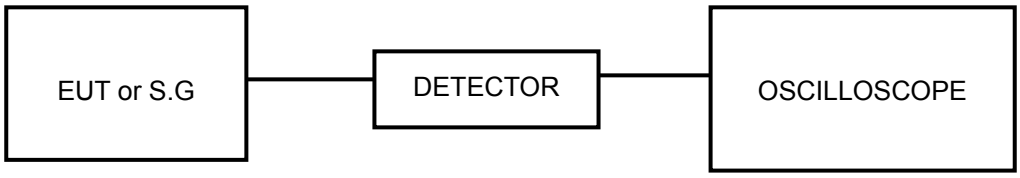
2. Replaced the EUT by the signal generator. The center frequency of the S.G was adjusted to the center frequency of the measured channel.

3. Adjusted the power to have the same reading on oscilloscope. Record the power level.

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6

4.4.7 TEST RESULTS

802.11b DSSS MODULATION

MODULATION TYPE	DBPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH, 991hPa
TESTED BY	Long Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	79.433	19.00	30	PASS
6	2437	81.096	19.09	30	PASS
11	2462	101.625	20.07	30	PASS

802.11g OFDM MODULATION:

MODULATION TYPE	BPSK for normal mode QPSK for turbo mode	TRANSFER RATE	6Mbps for normal mode 12Mbps for turbo mode
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH, 991hPa
TESTED BY	Long Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
1	2412	70.958	18.51	30	PASS
6	2437	114.288	20.58	30	PASS
11	2462	100.693	20.03	30	PASS
6 (Turbo)	2437	101.158	20.05	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 &	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSP 40	100040	Jun. 28, 2008

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

4.5.3 TEST PROCEDURE

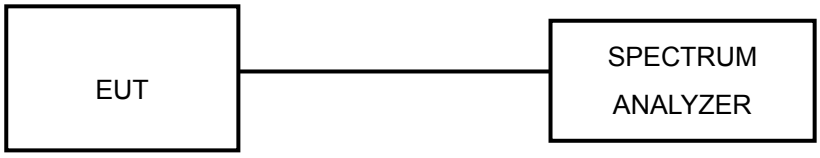
The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time = span/3kHz. The power spectral density was measured and recorded.

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

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITION

Same as Item 4.3.6

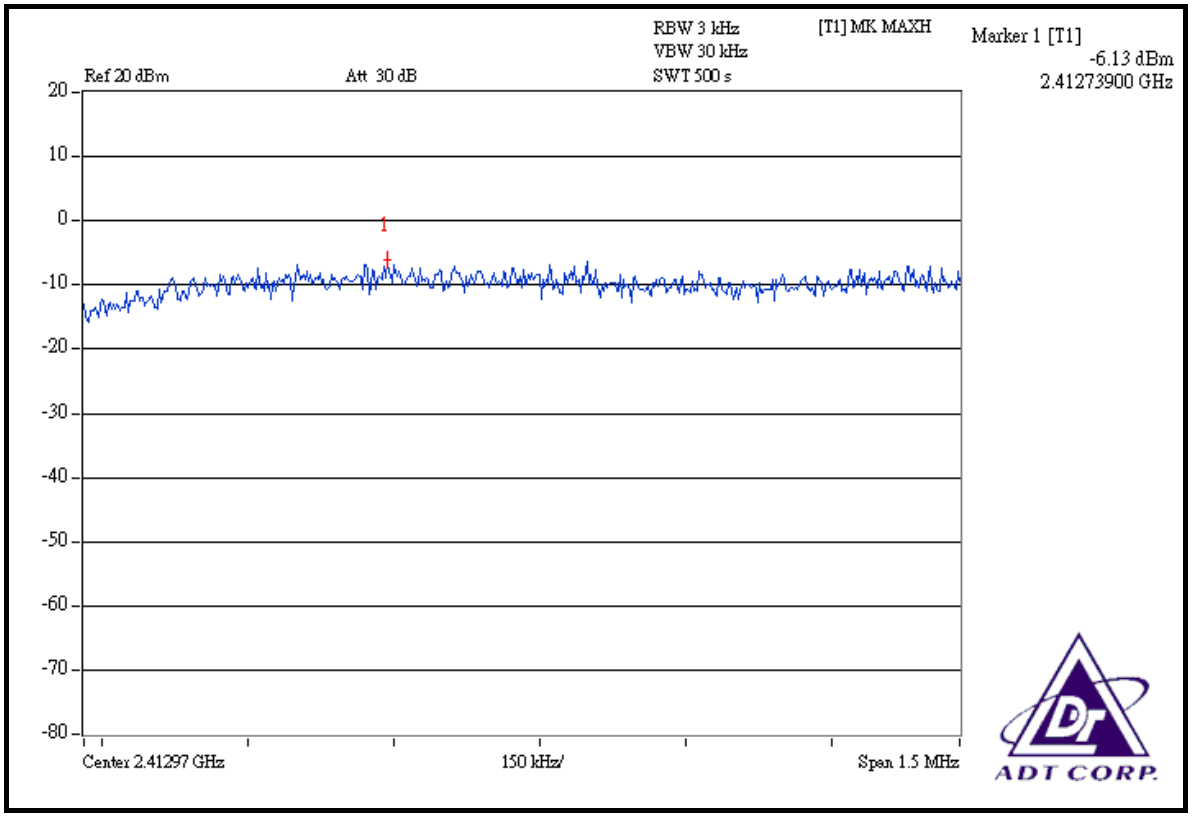
4.5.7 TEST RESULTS

802.11b DSSS MODULATION

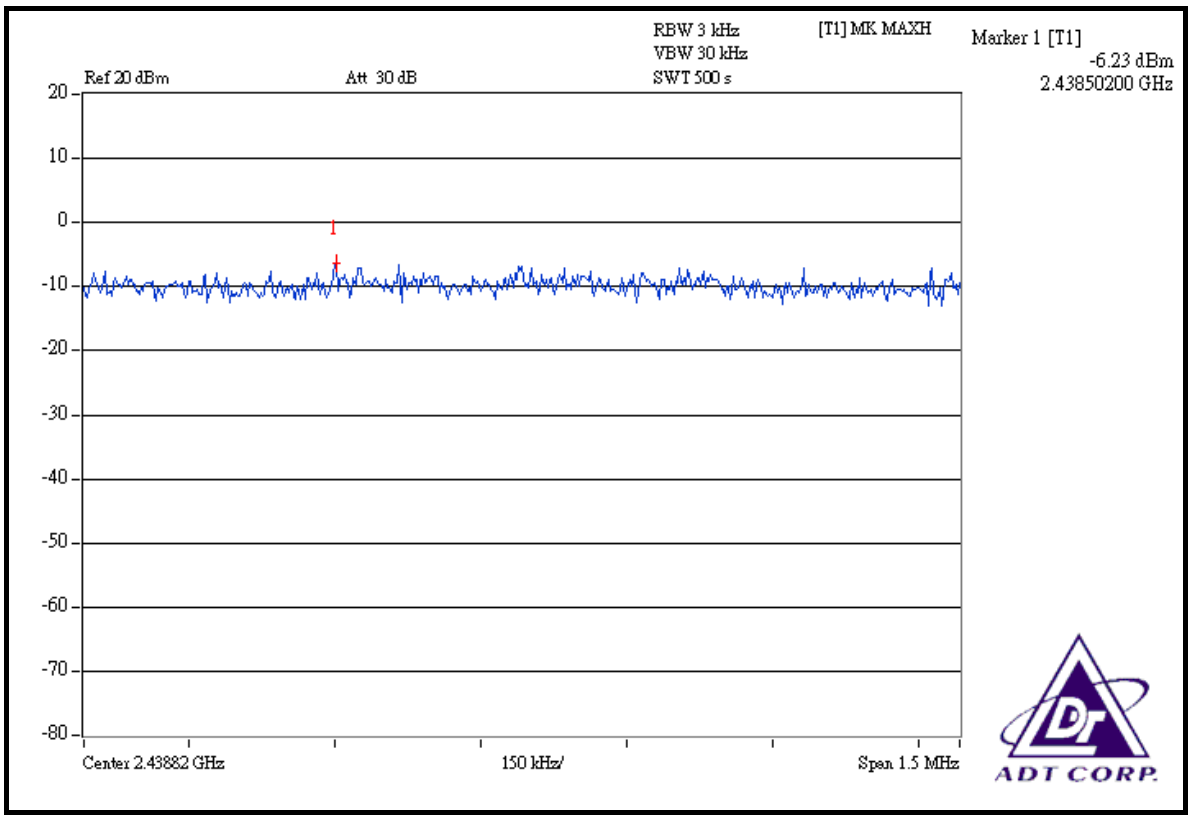
MODULATION TYPE	DBPSK	TRANSFER RATE	1Mbps
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH, 991hPa
TESTED BY	Long Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-6.13	8	PASS
6	2437	-6.23	8	PASS
11	2462	-4.96	8	PASS

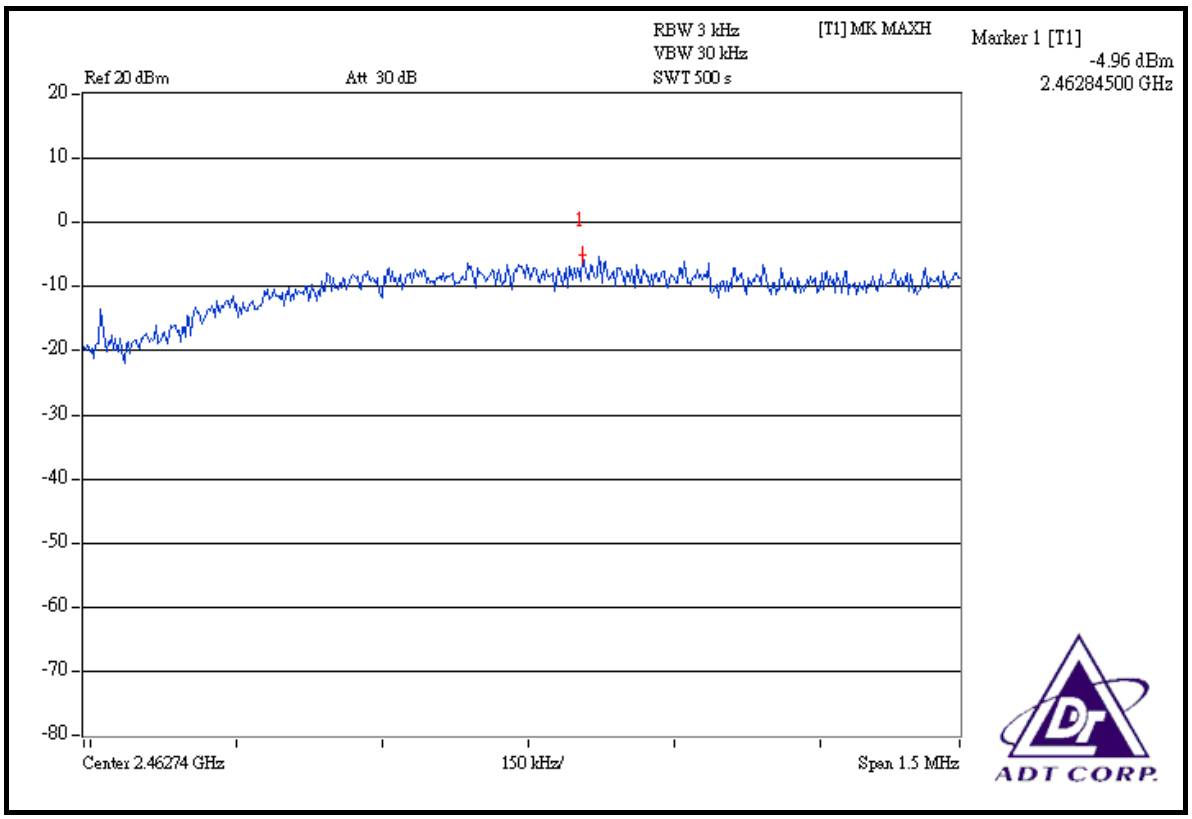
CH 1



CH 6


RBW 3 kHz
VBW 30 kHz
SWT 500 s
[T1] MK MAXH
Marker 1 [T1]
-6.23 dBm
2.43850200 GHz
Ref 20 dBm
Att 30 dB
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.43882 GHz
150 kHz/
Span 1.5 MHz
ADT CORP.

CH 11

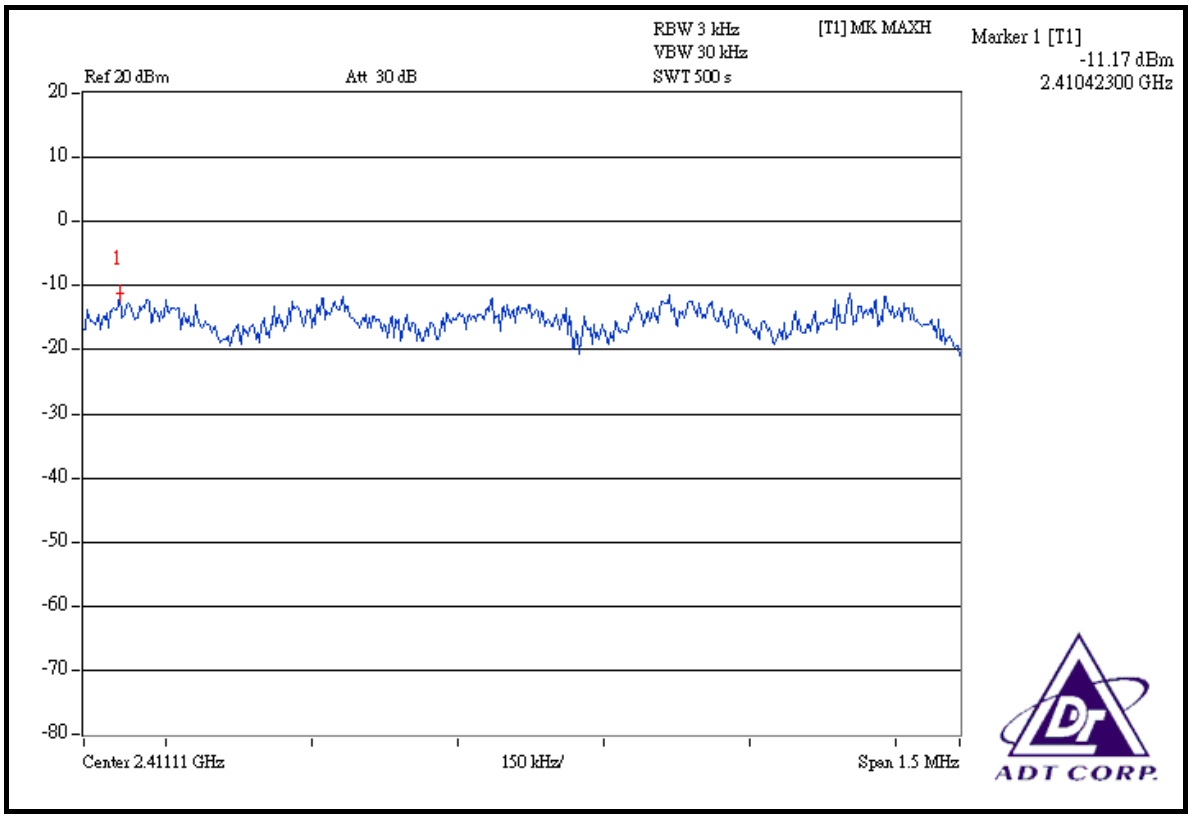

RBW 3 kHz
VBW 30 kHz
SWT 500 s
[T1] MK MAXH
Marker 1 [T1]
-4.96 dBm
2.46284500 GHz
Ref 20 dBm
Att 30 dB
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.46274 GHz
150 kHz/
Span 1.5 MHz
ADT CORP.

802.11g OFDM MODULATION

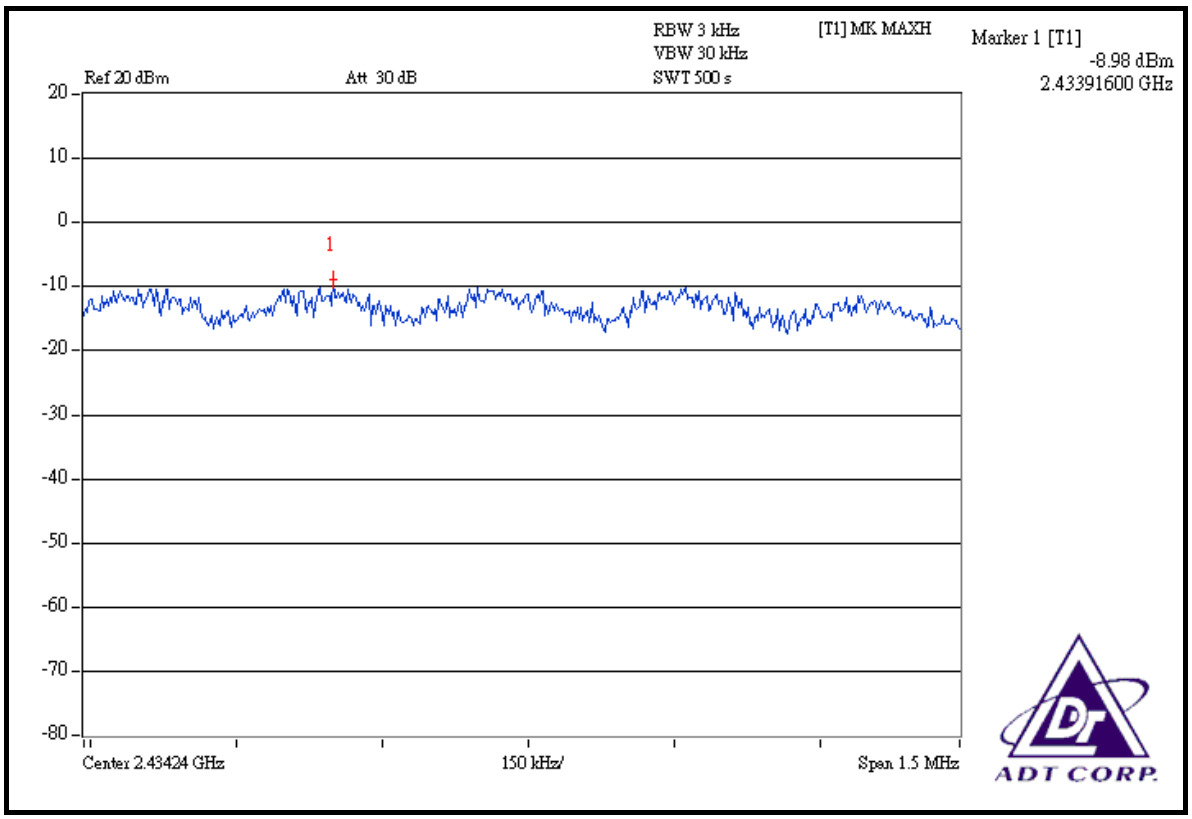
MODULATION TYPE	BPSK for normal mode QPSK for turbo mode	TRANSFER RATE	6Mbps for normal mode 12Mbps for turbo mode
INPUT POWER (SYSTEM)	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH, 991hPa
TESTED BY	Long Chen		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	2412	-11.17	8	PASS
6	2437	-8.98	8	PASS
11	2462	-9.85	8	PASS
6 (Turbo)	2437	-11.71	8	PASS

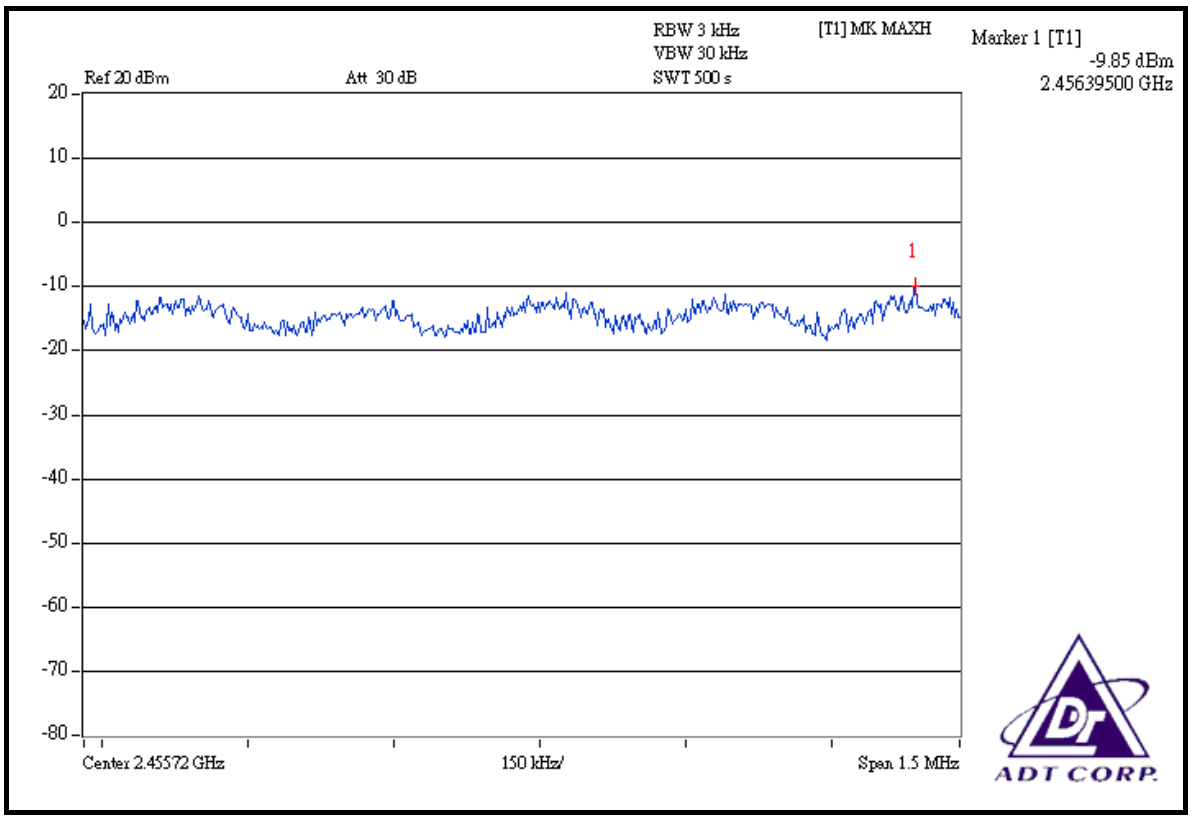
CH 1



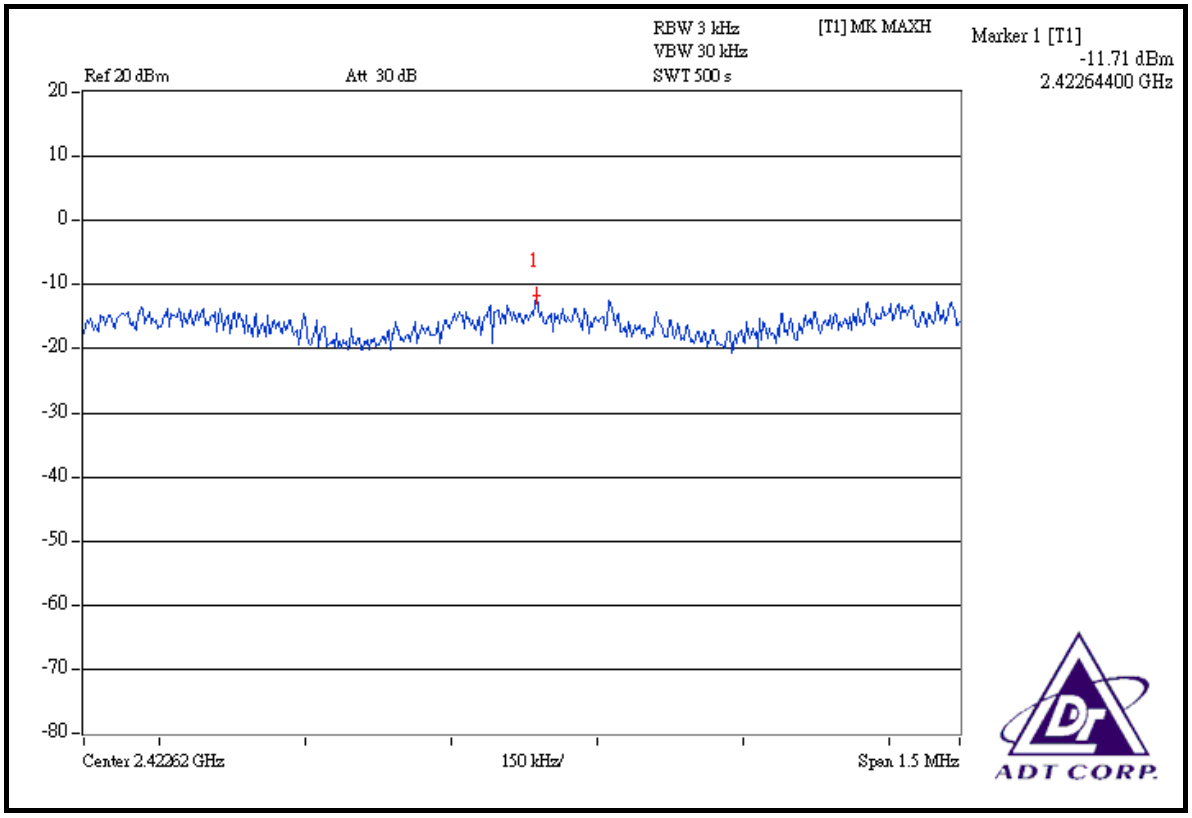
CH 6


RBW 3 kHz
VBW 30 kHz
SWT 500 s
[T1] MK MAXH
Marker 1 [T1]
-8.98 dBm
2.43391600 GHz
Ref 20 dBm
Att 30 dB
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
1
Center 2.43424 GHz
150 kHz/
Span 1.5 MHz
ADT CORP.

CH 11


RBW 3 kHz
VBW 30 kHz
SWT 500 s
[T1] MK MAXH
Marker 1 [T1]
-9.85 dBm
2.45639500 GHz
Ref 20 dBm
Att 30 dB
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
1
Center 2.45572 GHz
150 kHz/
Span 1.5 MHz
ADT CORP.

CH 6 (Turbo)


RBW 3 kHz
VBW 30 kHz
SWT 500 s
[T1] MK MAXH
Marker 1 [T1]
-11.71 dBm
2.42264400 GHz
Ref 20 dBm
Att 30 dB
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
1
Center 2.42262 GHz
150 kHz/
Span 1.5 MHz
ADT CORP.

4.6 BAND EDGES MEASUREMENT

4.6.1 LIMITS OF BAND EDGES MEASUREMENT

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

4.6.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSP 40	100040	Jun. 28, 2008

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

4.6.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz with suitable frequency span including 100 MHz 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.

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 18 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).

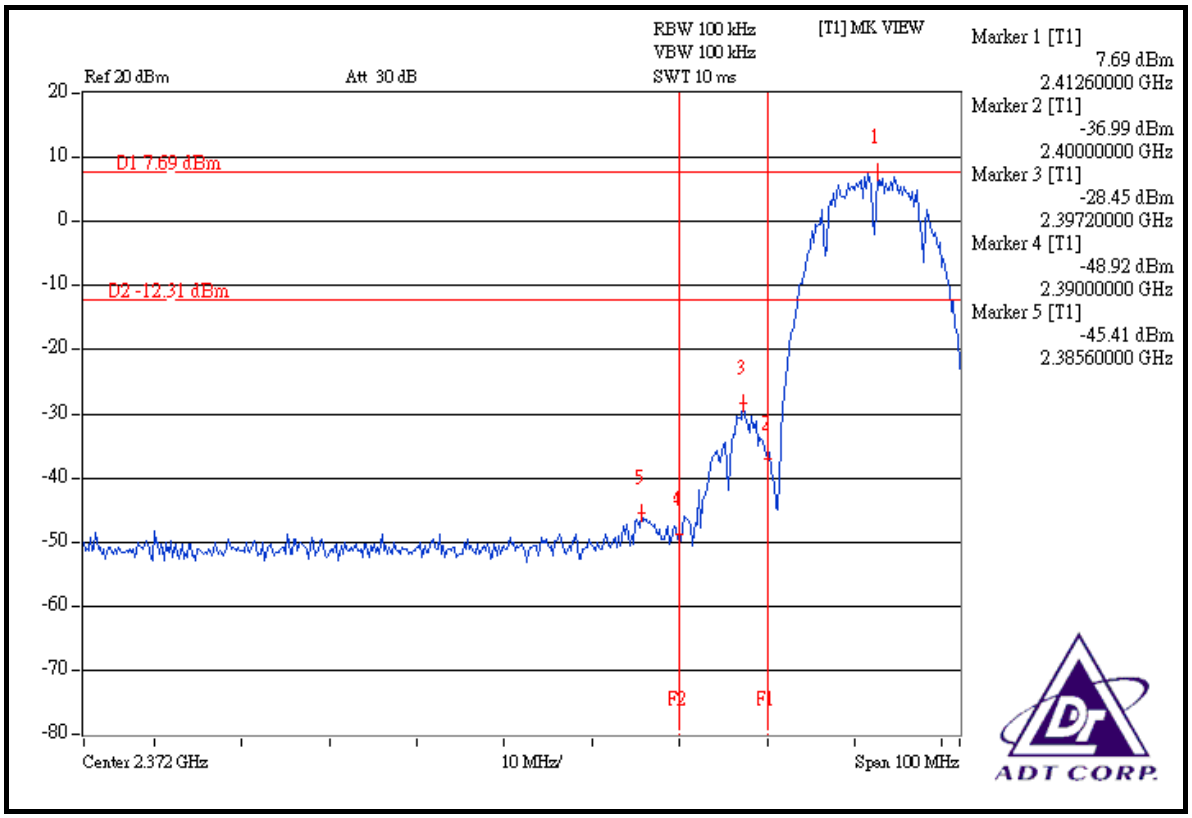
802.11b DSSS MODULATION

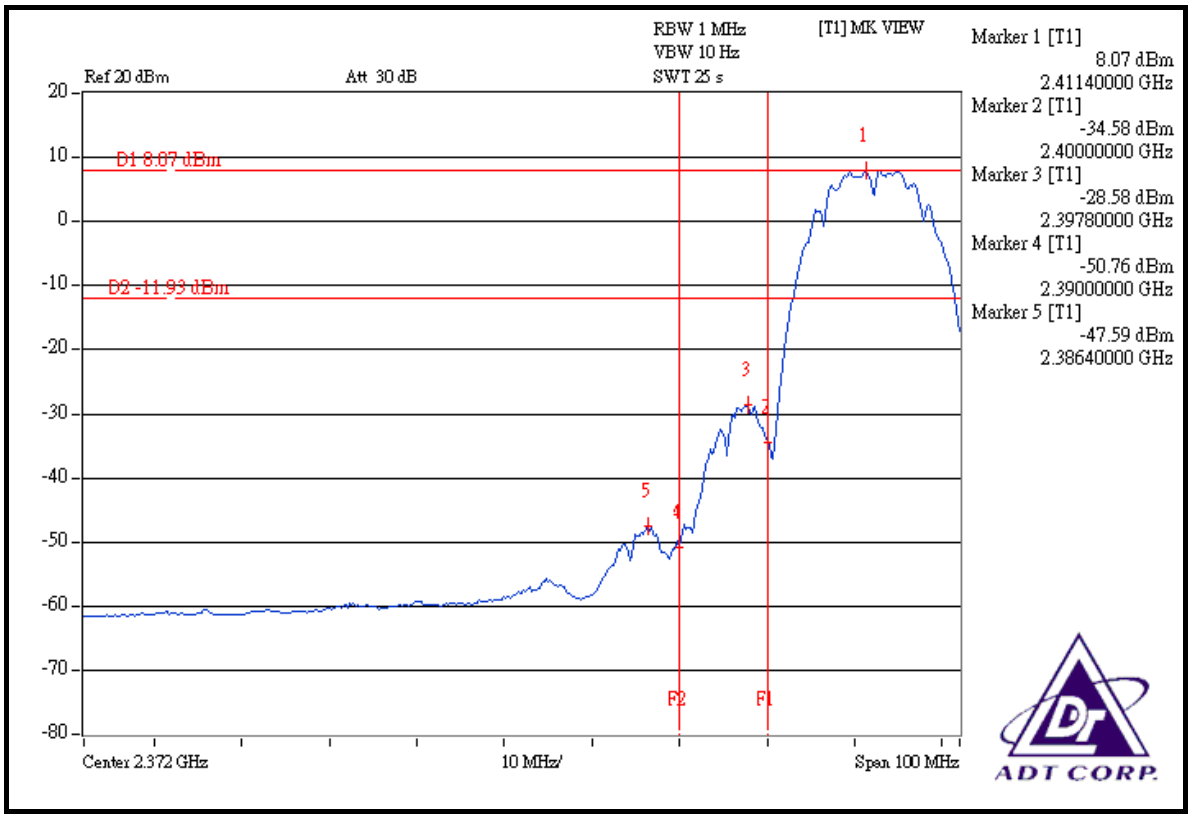
NOTE 1: The band edge emission plot on the next page shows 53.10dBc between carrier maximum power and local maximum emission in restrict band (2.38560GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 111.64dBuV/m (Peak), so the maximum field strength in restrict band is 111.64 - 53.10 = 58.54dBuV/m which is under 74dBuV/m limit.

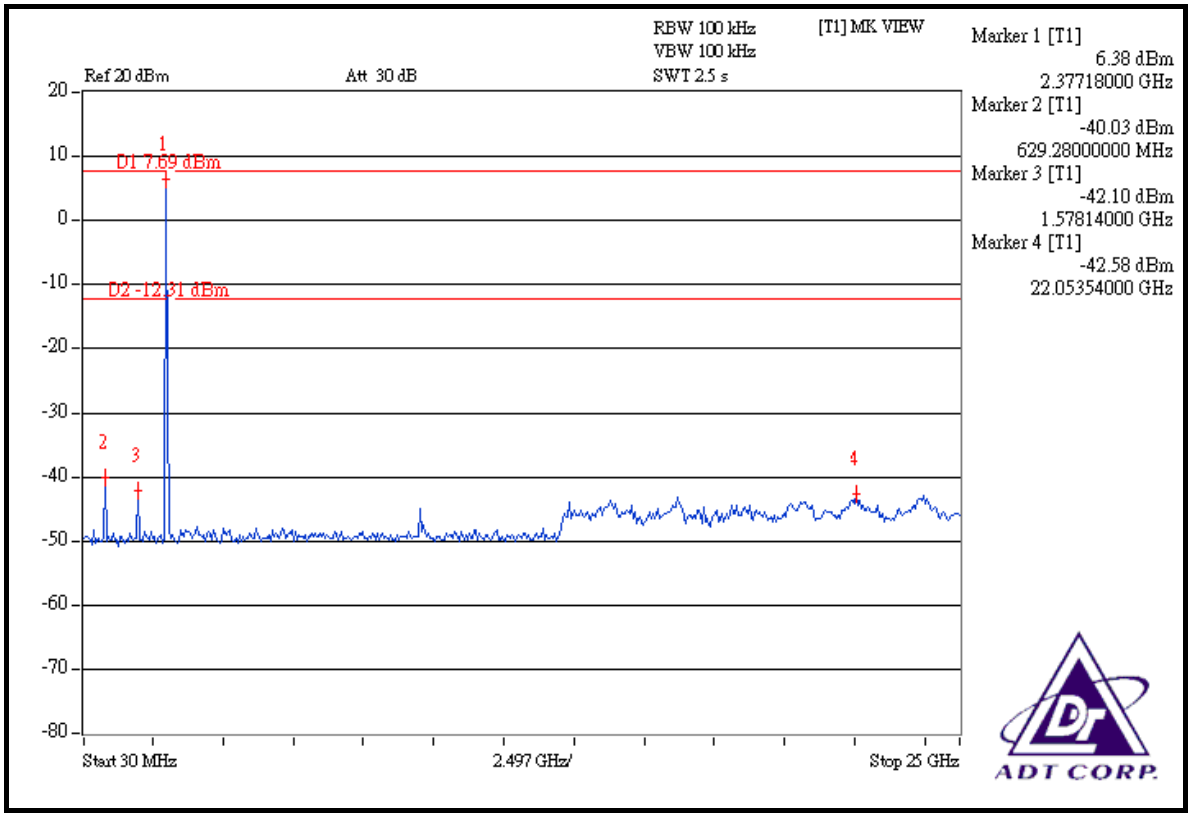
The band edge emission plot of on the next page shows 55.66dBc between carrier maximum power and local maximum emission in restrict band (2.38640GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 107.10dBuV/m (Average), so the maximum field strength in restrict band is 107.10 - 55.66 = 51.44dBuV/m which is under 54dBuV/m limit.

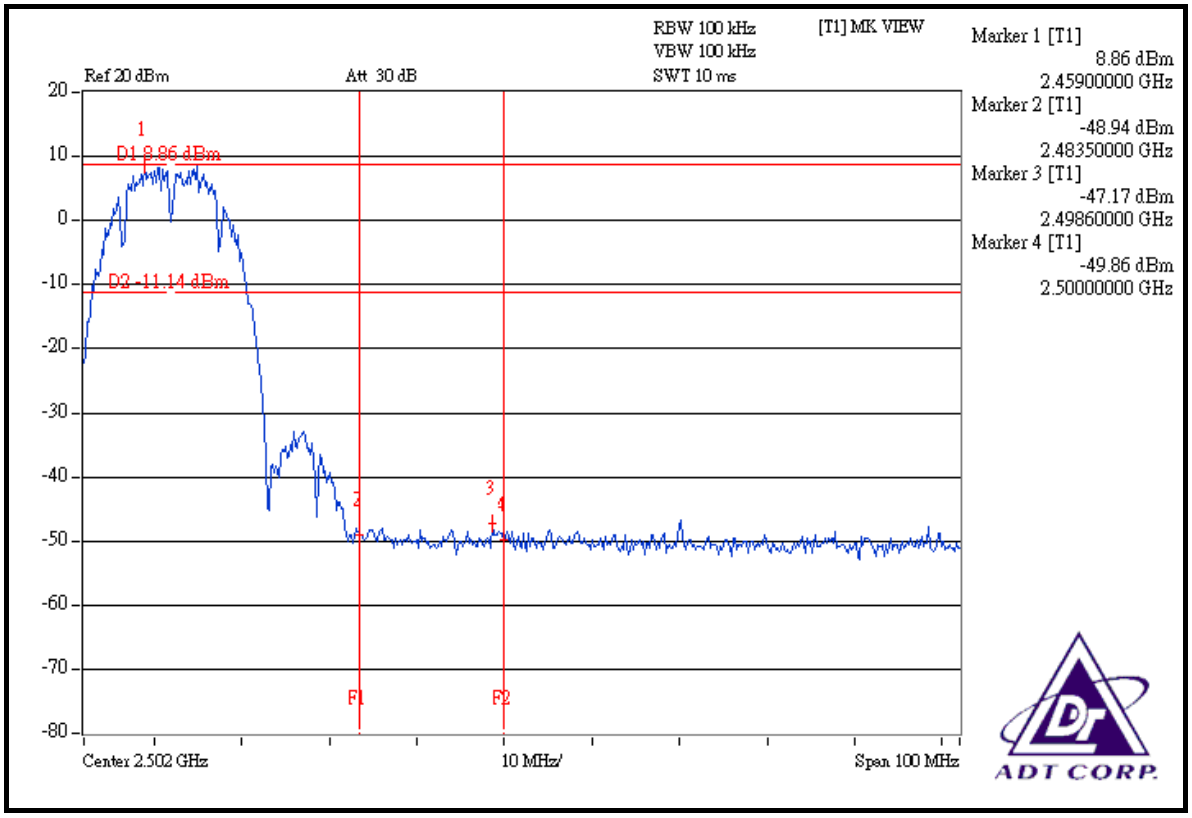
NOTE 2: The band edge emission plot on the next second page shows 56.03dBc between carrier maximum power and local maximum emission in restrict band (2.49860GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 112.64dBuV/m (Peak), so the maximum field strength in restrict band is 112.64 - 56.03 = 56.61dBuV/m which is under 74dBuV/m limit.

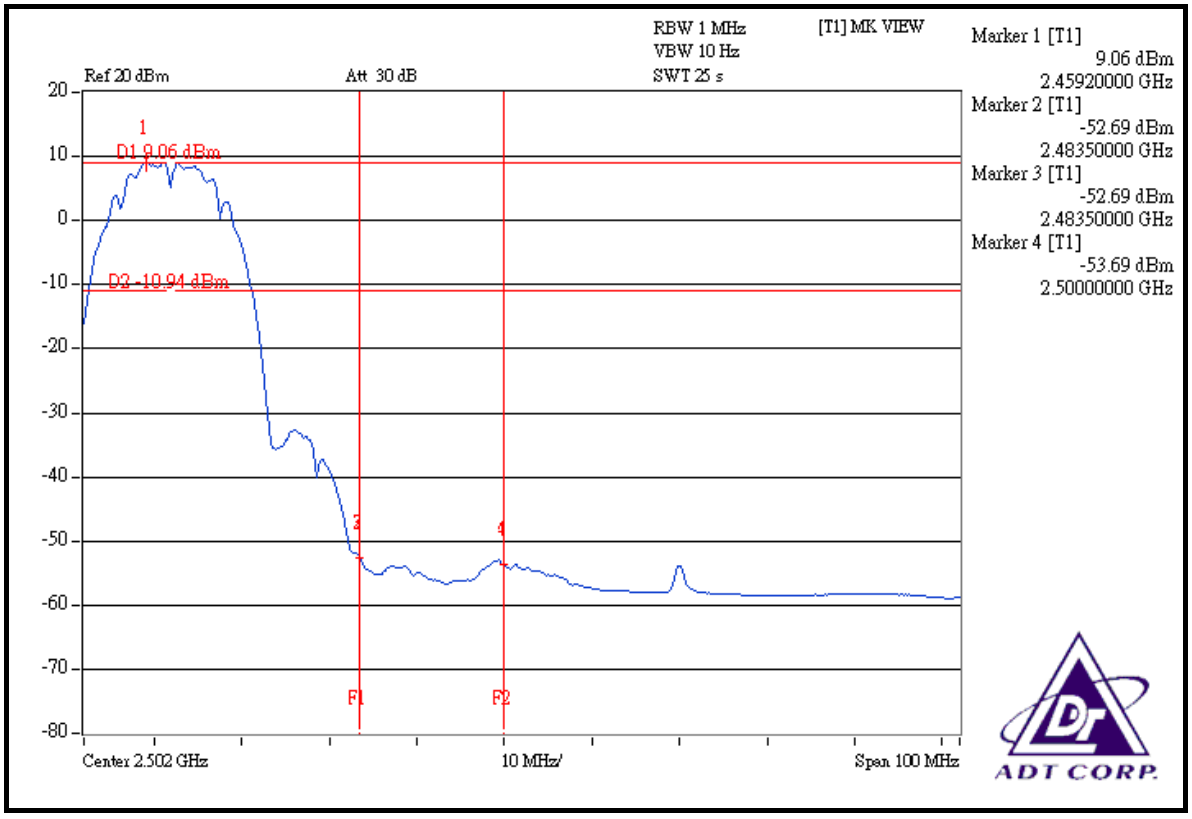
The band edge emission plot on the next third page shows 61.75dBc between carrier maximum power and local maximum emission in restrict band (2.48350GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 108.06dBuV/m (Average), so the maximum field strength in restrict band is 108.06 - 61.75 = 46.31dBuV/m which is under 54dBuV/m limit.

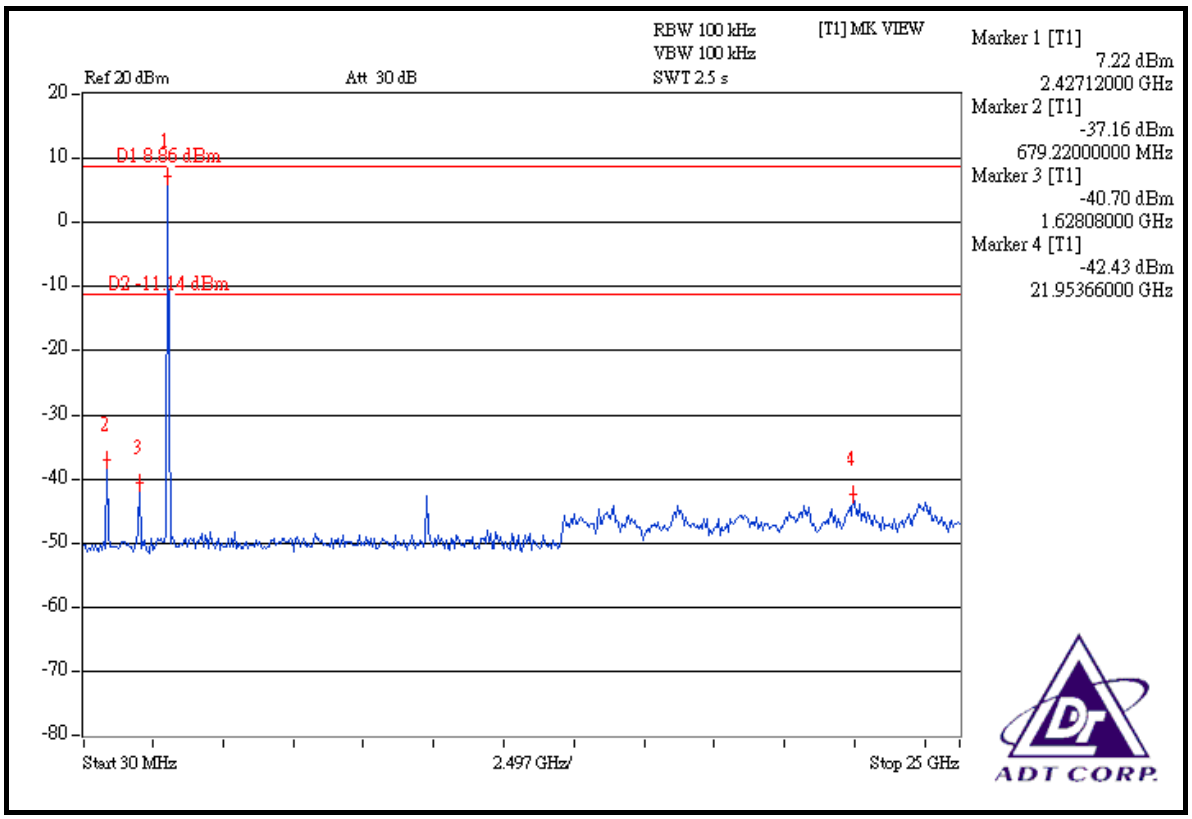

RBW 100 kHz
VBW 100 kHz
SWT 10 ms
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
D1 7.69 dBm
D2 -12.31 dBm
Marker 1 [T1]
7.69 dBm
2.41260000 GHz
Marker 2 [T1]
-36.99 dBm
2.40000000 GHz
Marker 3 [T1]
-28.45 dBm
2.39720000 GHz
Marker 4 [T1]
-48.92 dBm
2.39000000 GHz
Marker 5 [T1]
-45.41 dBm
2.38560000 GHz
F2
F1
Center 2.372 GHz
10 MHz/
Span 100 MHz
ADT CORP.


RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
D1 8.07 dBm
D2 -11.93 dBm
Marker 1 [T1]
8.07 dBm
2.41140000 GHz
Marker 2 [T1]
-34.58 dBm
2.40000000 GHz
Marker 3 [T1]
-28.58 dBm
2.39780000 GHz
Marker 4 [T1]
-50.76 dBm
2.39000000 GHz
Marker 5 [T1]
-47.59 dBm
2.38640000 GHz
F2
F1
Center 2.372 GHz
10 MHz/
Span 100 MHz
ADT CORP.


RBW 100 kHz
VBW 100 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
D1 7.69 dBm
D2 -12.31 dBm
Marker 1 [T1]
6.38 dBm
2.37718000 GHz
Marker 2 [T1]
-40.03 dBm
629.28000000 MHz
Marker 3 [T1]
-42.10 dBm
1.57814000 GHz
Marker 4 [T1]
-42.58 dBm
22.05354000 GHz
Start 30 MHz
2.497 GHz/
Stop 25 GHz


RBW 100 kHz
VBW 100 kHz
SWT 10 ms
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
D1 8.86 dBm
D2 -11.14 dBm
Marker 1 [T1]
8.86 dBm
2.45900000 GHz
Marker 2 [T1]
-48.94 dBm
2.48350000 GHz
Marker 3 [T1]
-47.17 dBm
2.49860000 GHz
Marker 4 [T1]
-49.86 dBm
2.50000000 GHz
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz


RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
D1 9.06 dBm
D2 -10.94 dBm
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz
Marker 1 [T1]
9.06 dBm
2.45920000 GHz
Marker 2 [T1]
-52.69 dBm
2.48350000 GHz
Marker 3 [T1]
-52.69 dBm
2.48350000 GHz
Marker 4 [T1]
-53.69 dBm
2.50000000 GHz
ADT CORP.


RBW 100 kHz
VBW 100 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
D1 8.96 dBm
D2 -11.14 dBm
Start 30 MHz
2.497 GHz/
Stop 25 GHz
Marker 1 [T1]
7.22 dBm
2.42712000 GHz
Marker 2 [T1]
-37.16 dBm
679.22000000 MHz
Marker 3 [T1]
-40.70 dBm
1.62808000 GHz
Marker 4 [T1]
-42.43 dBm
21.95366000 GHz
ADT CORP.

802.11g OFDM MODULATION

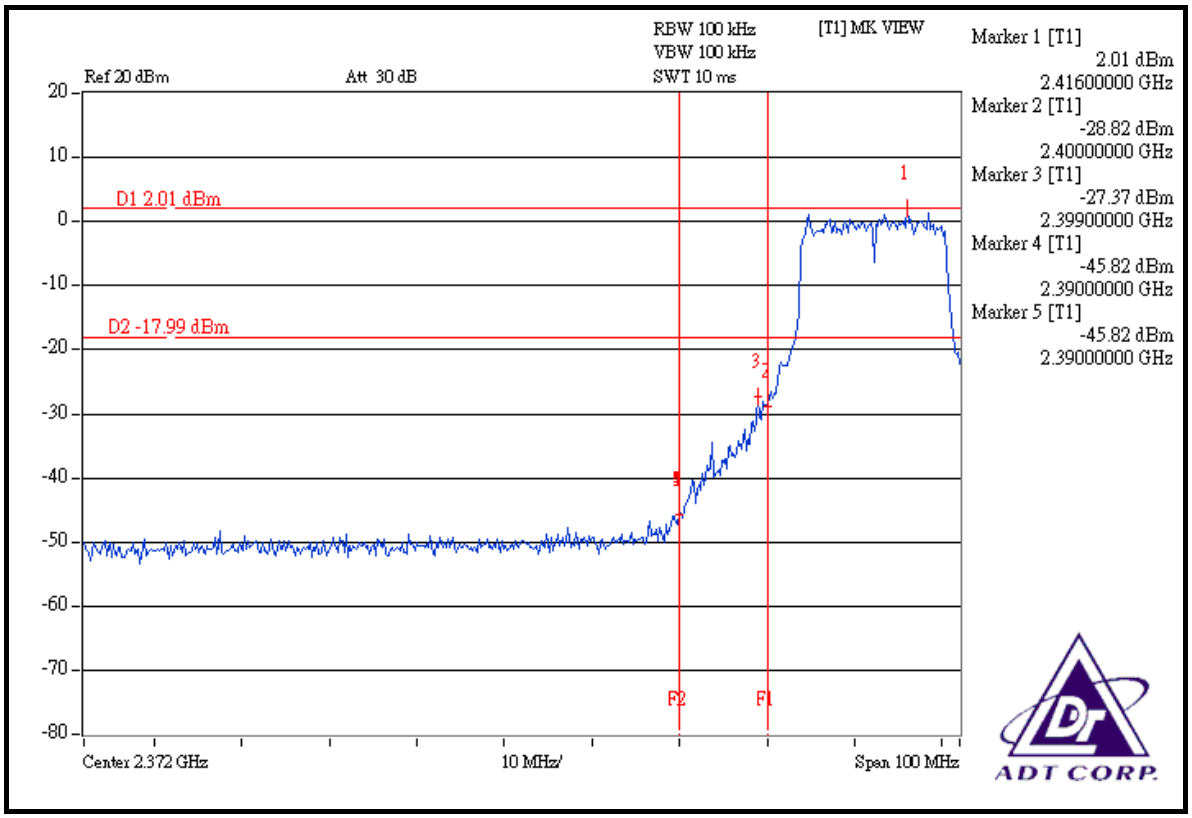
NORMAL MODE:

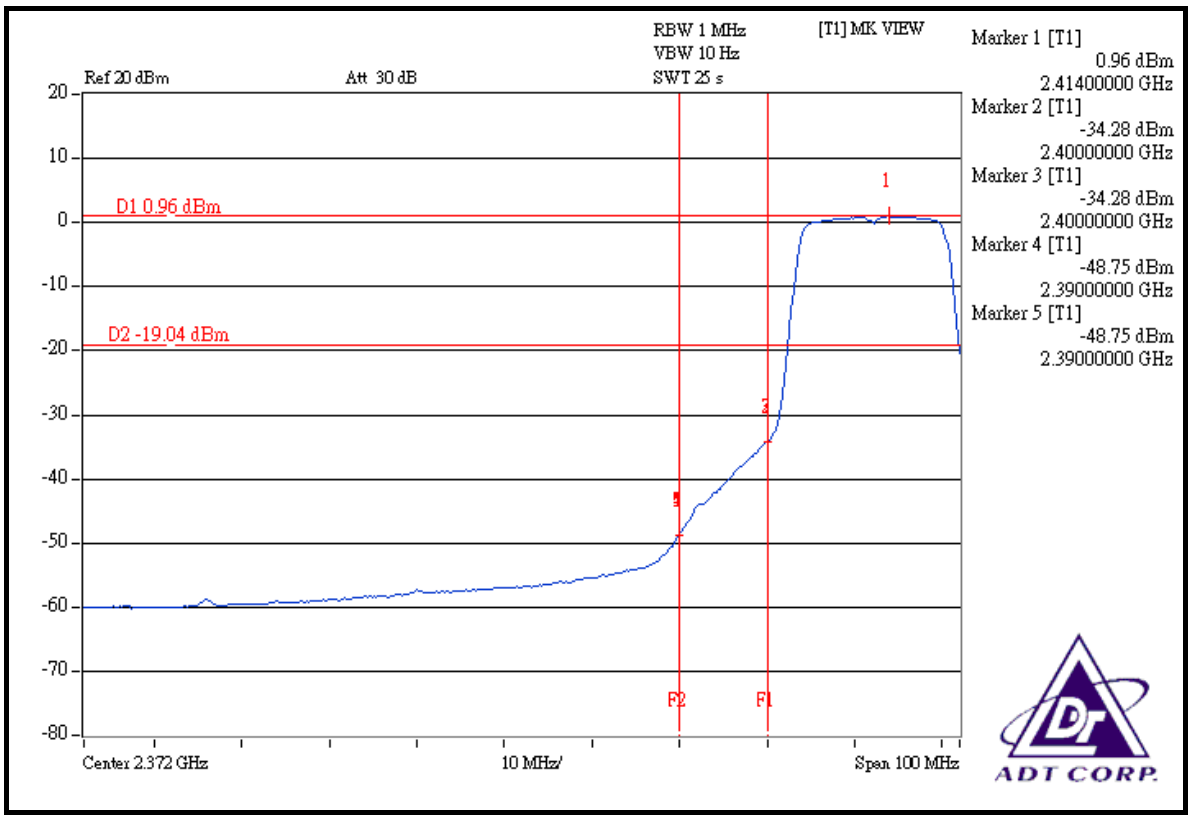
NOTE 1: The band edge emission plot on the next page shows 47.83dBc between carrier maximum power and local maximum emission in restrict band (2.39000GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 110.57dBuV/m (Peak), so the maximum field strength in restrict band is 110.57 - 47.83 = 62.74dBuV/m which is under 74dBuV/m limit.

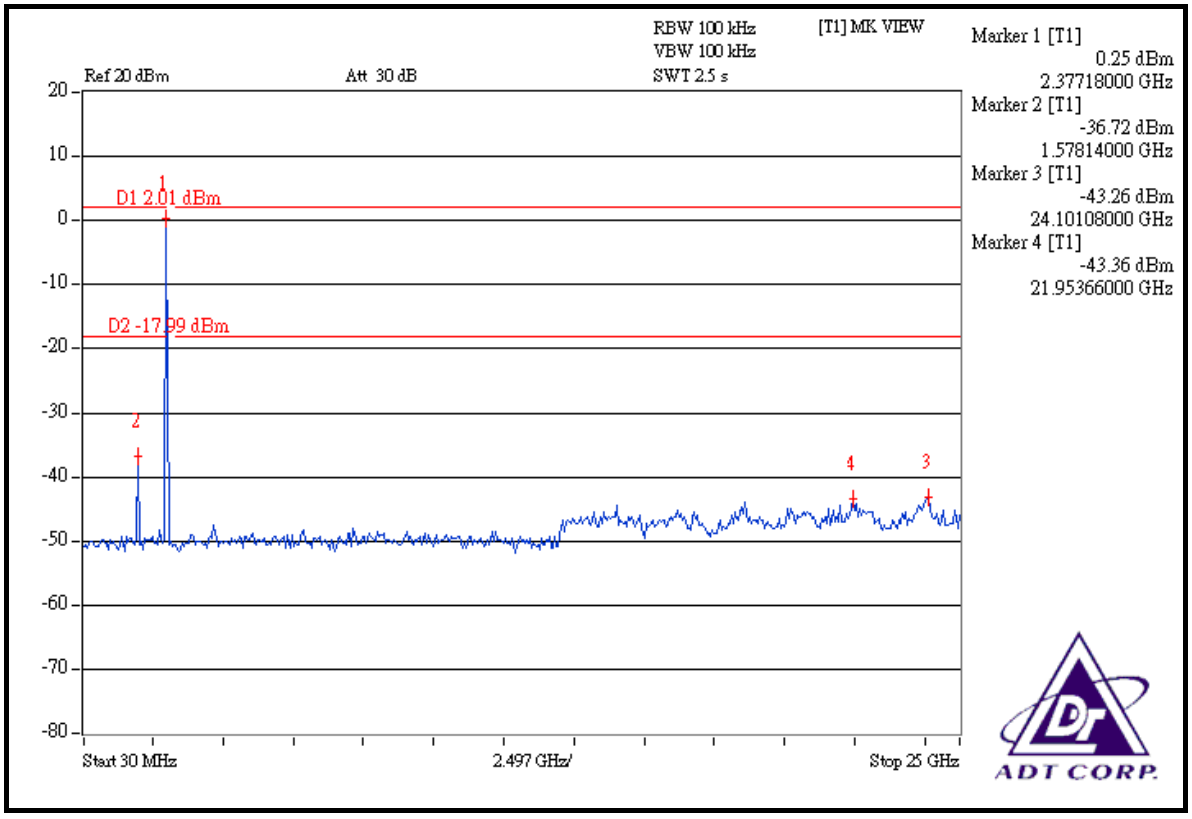
The band edge emission plot of on the next page shows 49.71dBc between carrier maximum power and local maximum emission in restrict band (2.39000GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.7 is 100.13dBuV/m (Average), so the maximum field strength in restrict band is 100.13 - 49.71 = 50.42dBuV/m which is under 54dBuV/m limit.

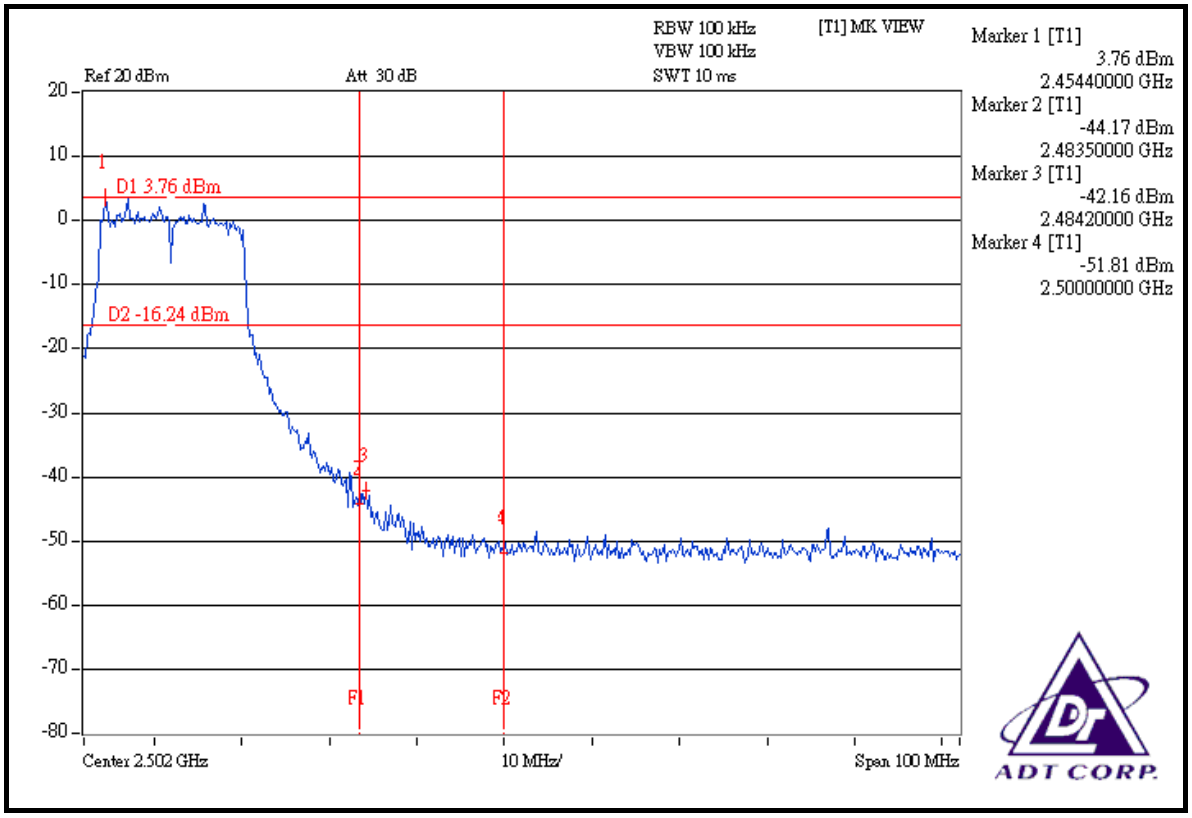
NOTE 2: The band edge emission plot on the next second page shows 45.92dBc between carrier maximum power and local maximum emission in restrict band (2.48420GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 112.32dBuV/m (Peak), so the maximum field strength in restrict band is 112.32 - 45.92 = 66.40dBuV/m which is under 74dBuV/m limit.

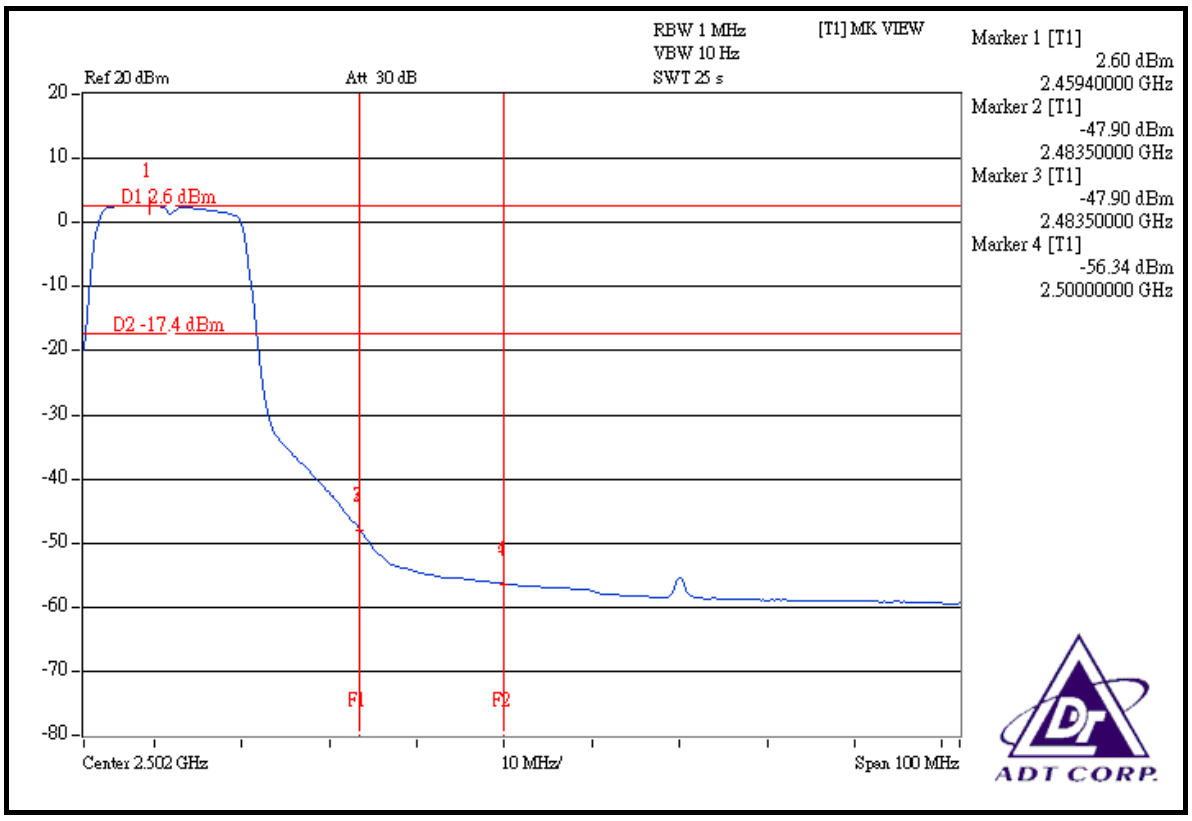
The band edge emission plot on the next third page shows 50.50dBc between carrier maximum power and local maximum emission in restrict band (2.48350GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.7 is 101.63dBuV/m (Average), so the maximum field strength in restrict band is 101.63 - 50.50 = 51.13dBuV/m which is under 54dBuV/m limit.

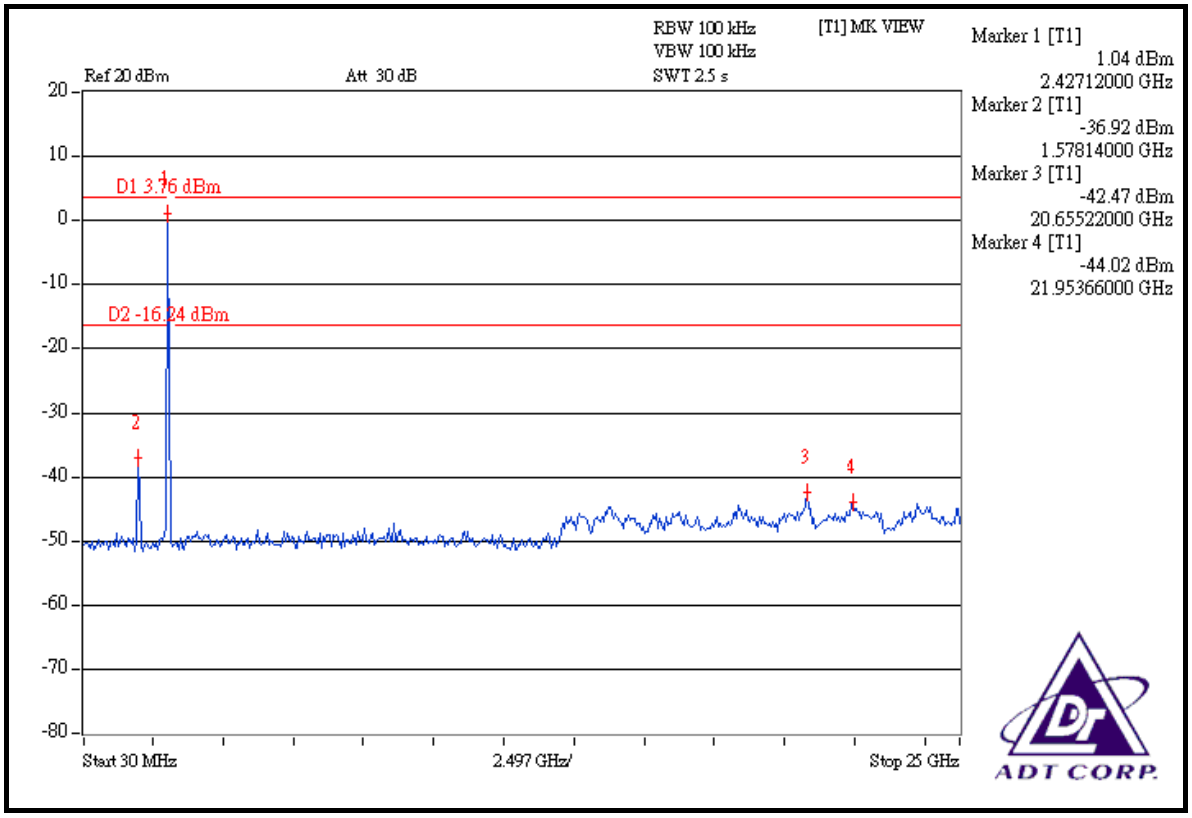

RBW 100 kHz
VBW 100 kHz
SWT 10 ms
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
2.01 dBm
2.41600000 GHz
Marker 2 [T1]
-28.82 dBm
2.40000000 GHz
Marker 3 [T1]
-27.37 dBm
2.39900000 GHz
Marker 4 [T1]
-45.82 dBm
2.39000000 GHz
Marker 5 [T1]
-45.82 dBm
2.39000000 GHz
D1 2.01 dBm
D2 -17.99 dBm
F2
F1
Center 2.372 GHz
10 MHz/
Span 100 MHz
ADT CORP.


RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
0.96 dBm
2.41400000 GHz
Marker 2 [T1]
-34.28 dBm
2.40000000 GHz
Marker 3 [T1]
-34.28 dBm
2.40000000 GHz
Marker 4 [T1]
-48.75 dBm
2.39000000 GHz
Marker 5 [T1]
-48.75 dBm
2.39000000 GHz
D1 0.96 dBm
D2 -19.04 dBm
F2
F1
Center 2.372 GHz
10 MHz/
Span 100 MHz
ADT CORP.


RBW 100 kHz
VBW 100 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
D1 2.01 dBm
D2 -17.99 dBm
Marker 1 [T1]
0.25 dBm
2.37718000 GHz
Marker 2 [T1]
-36.72 dBm
1.57814000 GHz
Marker 3 [T1]
-43.26 dBm
24.10108000 GHz
Marker 4 [T1]
-43.36 dBm
21.95366000 GHz
Start 30 MHz
2.497 GHz/
Stop 25 GHz
ADT CORP.


RBW 100 kHz
VBW 100 kHz
SWT 10 ms
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
D1 3.76 dBm
D2 -16.24 dBm
Marker 1 [T1]
3.76 dBm
2.45440000 GHz
Marker 2 [T1]
-44.17 dBm
2.48350000 GHz
Marker 3 [T1]
-42.16 dBm
2.48420000 GHz
Marker 4 [T1]
-51.81 dBm
2.50000000 GHz
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz
ADT CORP.


RBW 1 MHz
VBW 10 Hz
SWT 25 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
2.60 dBm
2.45940000 GHz
Marker 2 [T1]
-47.90 dBm
2.48350000 GHz
Marker 3 [T1]
-47.90 dBm
2.48350000 GHz
Marker 4 [T1]
-56.34 dBm
2.50000000 GHz
D1 2.6 dBm
D2 -17.4 dBm
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz
ADT CORP.


RBW 100 kHz
VBW 100 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
1.04 dBm
2.42712000 GHz
Marker 2 [T1]
-36.92 dBm
1.57814000 GHz
Marker 3 [T1]
-42.47 dBm
20.65522000 GHz
Marker 4 [T1]
-44.02 dBm
21.95366000 GHz
D1 3.76 dBm
D2 -16.24 dBm
Start 30 MHz
2.497 GHz/
Stop 25 GHz
ADT CORP.

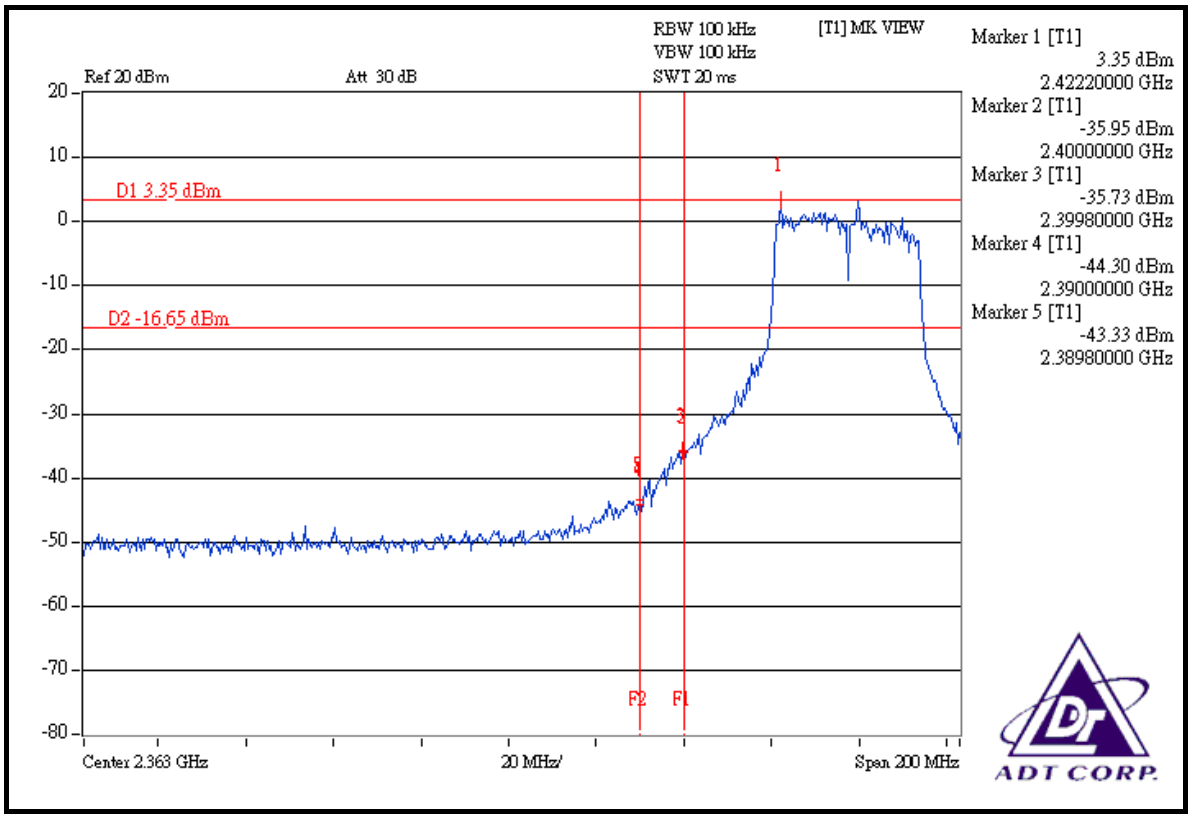
TURBO MODE:

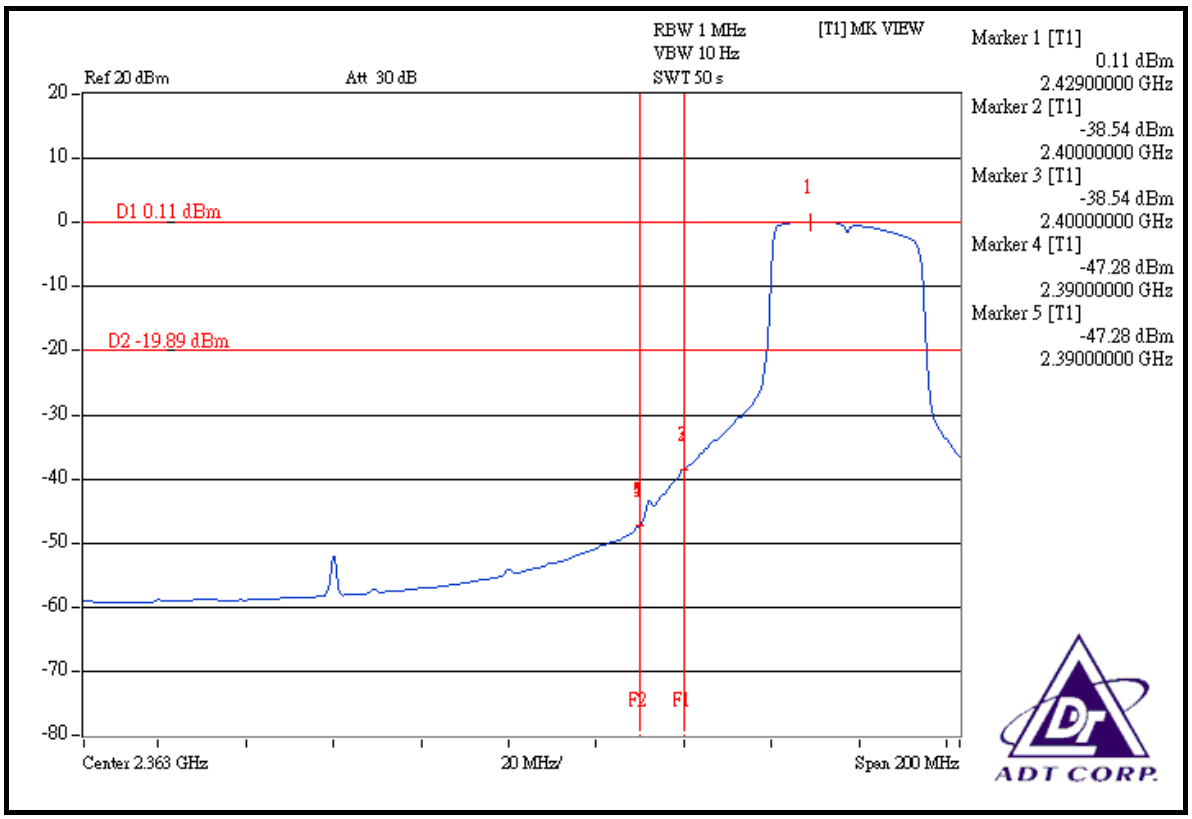
NOTE 1: The band edge emission plot on the next page shows 46.68dBc between carrier maximum power and local maximum emission in restrict band (2.38980GHz). The emission of carrier strength list in the test result of channel 6 at the item 4.2.7 is 109.39dBuV/m (Peak), so the maximum field strength in restrict band is 109.39 - 46.68 = 62.71dBuV/m which is under 74dBuV/m limit.

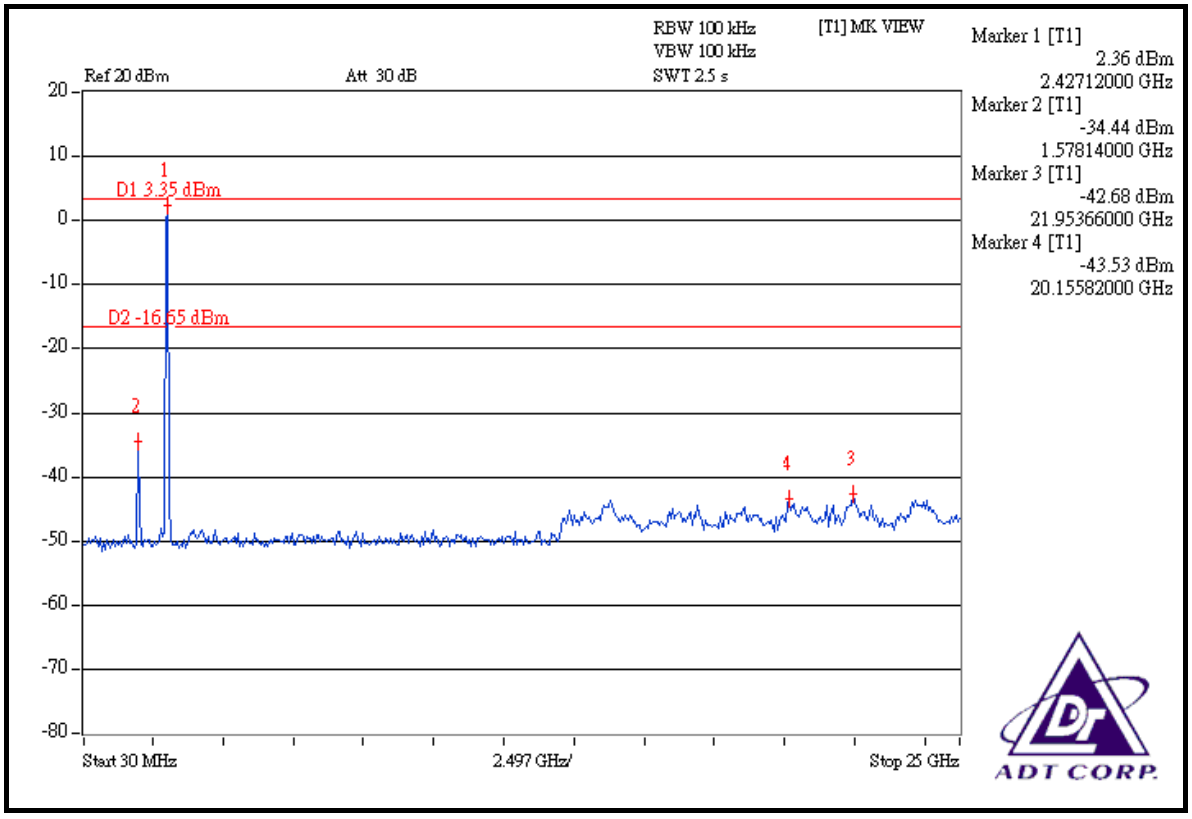
The band edge emission plot of on the next page shows 47.39dBc between carrier maximum power and local maximum emission in restrict band (2.39000GHz). The emission of carrier strength list in the test result of channel 6 at the item 4.2.7 is 99.96dBuV/m (Average), so the maximum field strength in restrict band is 99.96 - 47.39 = 52.57dBuV/m which is under 54dBuV/m limit.

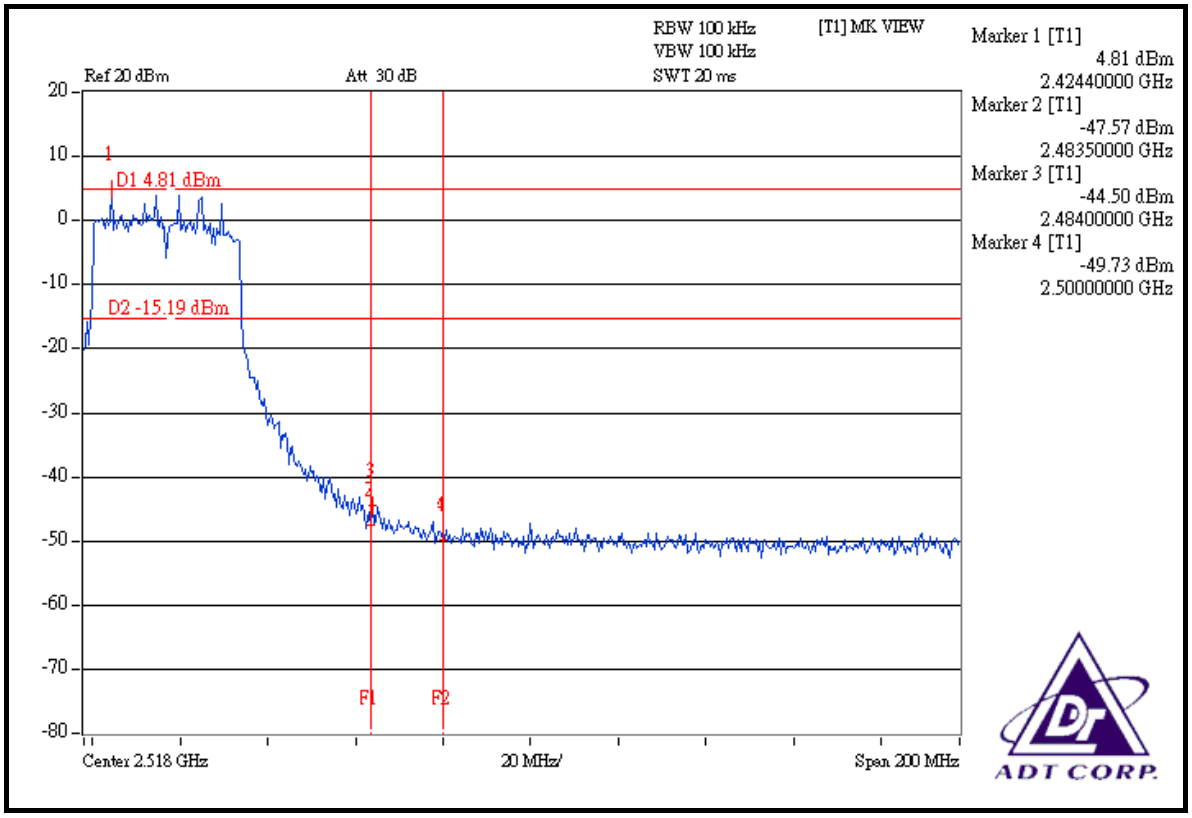
NOTE 2: The band edge emission plot on the next second page shows 49.31dBc between carrier maximum power and local maximum emission in restrict band (2.48400GHz). The emission of carrier strength list in the test result of channel 6 at the item 4.2.7 is 109.39dBuV/m (Peak), so the maximum field strength in restrict band is 109.39 - 49.31 = 60.08dBuV/m which is under 74dBuV/m limit.

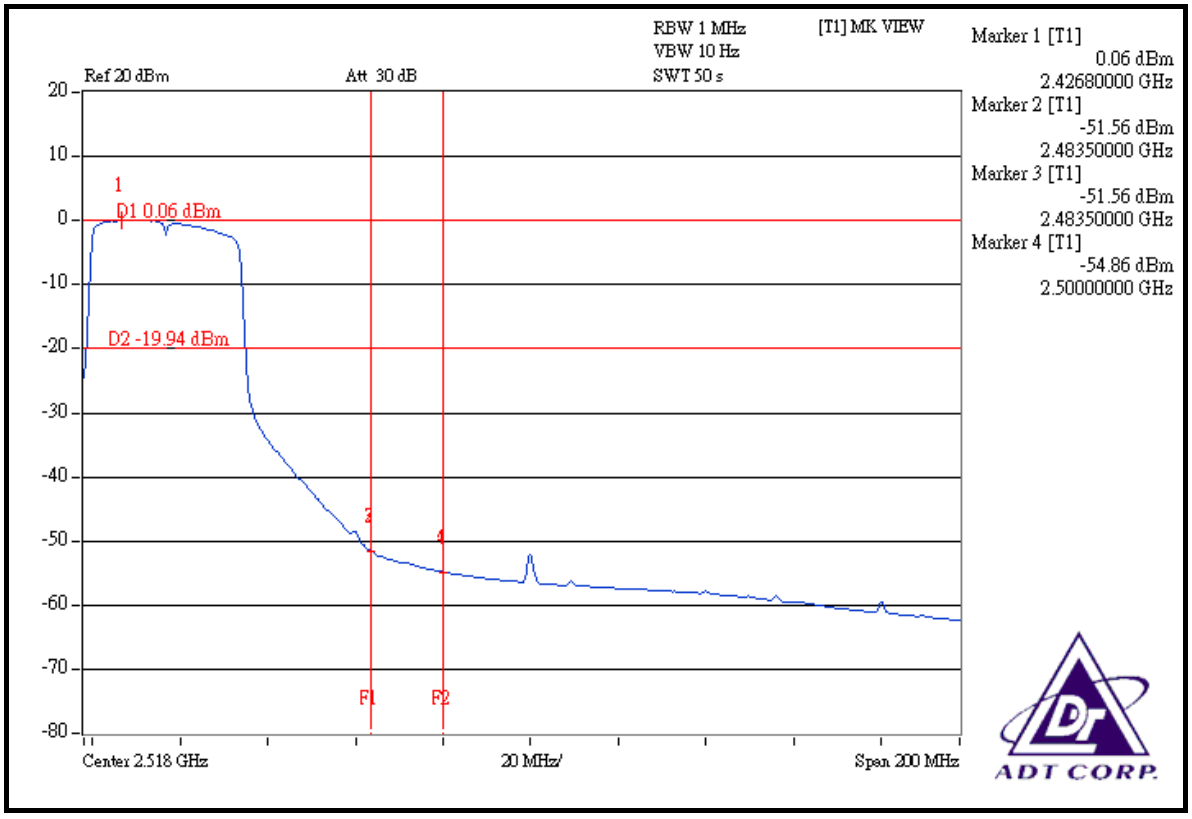
The band edge emission plot on the next third page shows 51.62dBc between carrier maximum power and local maximum emission in restrict band (2.48350GHz). The emission of carrier strength list in the test result of channel 6 at the item 4.2.7 is 99.96dBuV/m (Average), so the maximum field strength in restrict band is 99.96 - 51.62 = 48.34dBuV/m which is under 54dBuV/m limit.

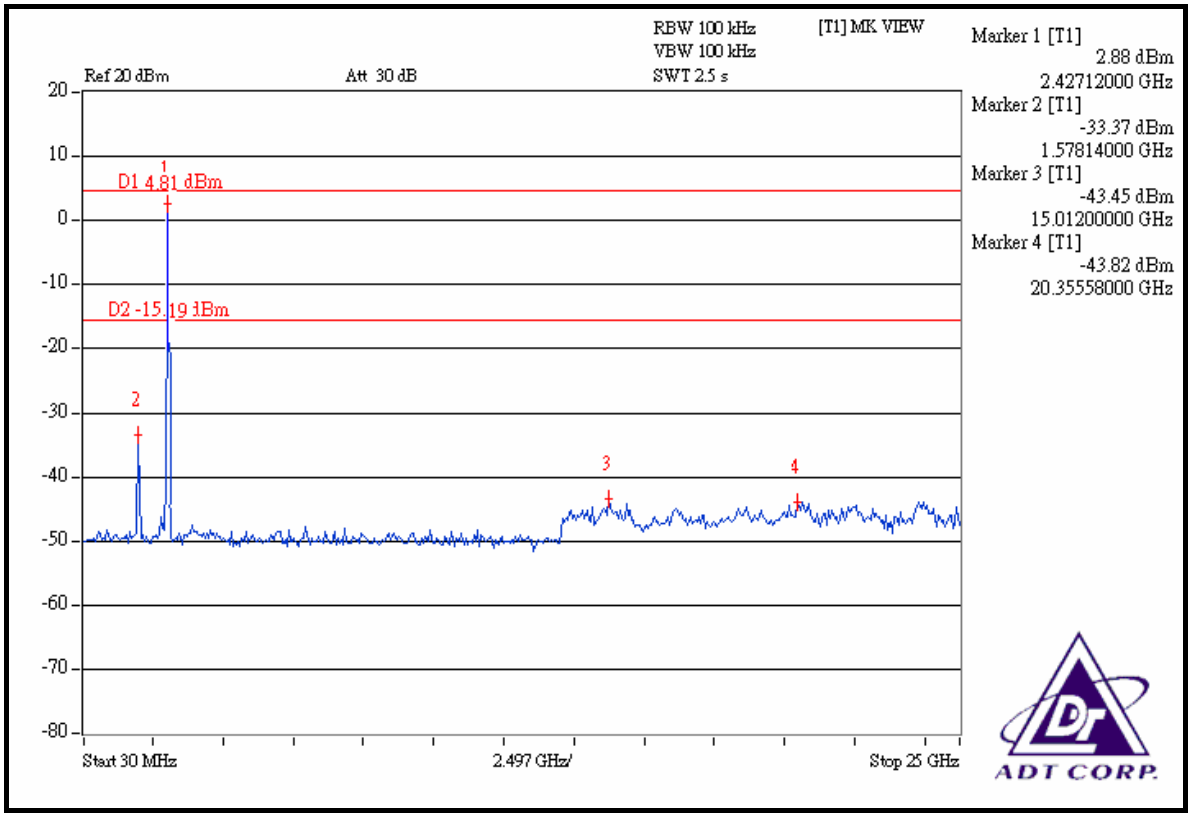

RBW 100 kHz
VBW 100 kHz
SWT 20 ms
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
D1 3.35 dBm
D2 -16.65 dBm
Center 2.363 GHz
20 MHz/
Span 200 MHz
Marker 1 [T1]
3.35 dBm
2.42220000 GHz
Marker 2 [T1]
-35.95 dBm
2.40000000 GHz
Marker 3 [T1]
-35.73 dBm
2.39980000 GHz
Marker 4 [T1]
-44.30 dBm
2.39000000 GHz
Marker 5 [T1]
-43.33 dBm
2.38980000 GHz


RBW 1 MHz
VBW 10 Hz
SWT 50 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
D1 0.11 dBm
D2 -19.89 dBm
Center 2.363 GHz
20 MHz/
Span 200 MHz
Marker 1 [T1]
0.11 dBm
2.42900000 GHz
Marker 2 [T1]
-38.54 dBm
2.40000000 GHz
Marker 3 [T1]
-38.54 dBm
2.40000000 GHz
Marker 4 [T1]
-47.28 dBm
2.39000000 GHz
Marker 5 [T1]
-47.28 dBm
2.39000000 GHz


RBW 100 kHz
VBW 100 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
D1 3.35 dBm
D2 -16.65 dBm
Marker 1 [T1]
2.36 dBm
2.42712000 GHz
Marker 2 [T1]
-34.44 dBm
1.57814000 GHz
Marker 3 [T1]
-42.68 dBm
21.95366000 GHz
Marker 4 [T1]
-43.53 dBm
20.15582000 GHz
Start 30 MHz
2.497 GHz/
Stop 25 GHz
ADT CORP.


RBW 100 kHz
VBW 100 kHz
SWT 20 ms
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
D1 4.81 dBm
D2 -15.19 dBm
Marker 1 [T1]
4.81 dBm
2.42440000 GHz
Marker 2 [T1]
-47.57 dBm
2.48350000 GHz
Marker 3 [T1]
-44.50 dBm
2.48400000 GHz
Marker 4 [T1]
-49.73 dBm
2.50000000 GHz
F1
F2
Center 2.518 GHz
20 MHz/
Span 200 MHz
ADT CORP.


RBW 1 MHz
VBW 10 Hz
SWT 50 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
0.06 dBm
2.42680000 GHz
Marker 2 [T1]
-51.56 dBm
2.48350000 GHz
Marker 3 [T1]
-51.56 dBm
2.48350000 GHz
Marker 4 [T1]
-54.86 dBm
2.50000000 GHz
D1 0.06 dBm
D2 -19.94 dBm
F1
F2
Center 2.518 GHz
20 MHz/
Span 200 MHz


RBW 100 kHz
VBW 100 kHz
SWT 2.5 s
[T1] MK VIEW
Ref 20 dBm
Att 30 dB
Marker 1 [T1]
2.88 dBm
2.42712000 GHz
Marker 2 [T1]
-33.37 dBm
1.57814000 GHz
Marker 3 [T1]
-43.45 dBm
15.01200000 GHz
Marker 4 [T1]
-43.82 dBm
20.35558000 GHz
D1 4.81 dBm
D2 -15.19 dBm
Start 30 MHz
2.497 GHz/
Stop 25 GHz

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 R-SMA connector. The maximum Gain of the antenna is 2.1dBi.

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.